

**FUTURE FISHERIES IMPROVEMENT PROGRAM
GRANT APPLICATION**

(please fill in the highlighted areas)

I. APPLICANT INFORMATION

A. Applicant Name: Big Blackfoot Chapter of Trout Unlimited

B. Mailing Address: PO Box 1

C. City: Ovando State: MT Zip: 59854

Telephone: 406-240-4824 E-mail: ryen@montanatu.org

D. Contact Person: Ryen Neudecker

Address if different from Applicant:

City: State: Zip:

Telephone: E-mail:

E. Landowner and/or Lessee Name (if other than Applicant): University of Montana-Bandy Ranch (Beth Dodson)

Mailing Address: 32 Campus Drive

City: Missoula State: MT Zip: 59802

Telephone: 406-396-6893 E-mail:

II. PROJECT INFORMATION*

A. Project Name: Shanley Creek Fish Screening/Water Conservation Project

River, stream, or lake: Shanley Creek

Location: Township: 15N Range: 14W Section: 3

Latitude: 47.052210 Longitude: 113.141676 *within project (decimal degrees)*

County: Missoula

B. Purpose of Project:

The overall goal of the Shanley Creek Fish Screen Project is to eliminate fish entrainment and control stream flows being diverted.

C. Brief Project Description:

Shanley Creek is a second-order tributary to Cottonwood Creek and flows nine miles through a mixture of public and private land, including the Bandy Experimental Ranch (owned by UM). Shanley Creek is a bull trout core area stream and supports pure populations of westslope cutthroat trout. Several projects have been completed throughout the drainage including fish passage, grazing management, and road decommissioning. Over 20 years ago, a paddlewheel fish screen was installed in the irrigation ditch. Over time, the structure has become inefficient at screening fish as several holes have emerged in the concrete and the screen itself needs to be upgraded. There is also not a functional headgate to control water flows. We are now entering the second generation of fish screens on some diversions in the Blackfoot River drainage. Recent upgrades to the paddlewheel screen design and BBCTU's fish screen technician have improved our fish screening program and we now have the opportunity to upgrade an existing fish screen and ensure trout within Shanley Creek remain instream.

D. Length of stream or size of lake that will be treated:

The project will improve conditions in the immediate vicinity of the diversion and will improve recruitment throughout the entire tributary.

E. Project Budget:

Grant Request (Dollars): \$ **15,250**

Contribution by Applicant (Dollars): \$ 7825 In-kind \$ 3,600
(salaries of government employees are not considered as matching contributions)

Contribution from other Sources (Dollars): \$ 10,000 In-kind \$ 0
(attach verification - See page 2 budget template)

Total Project Cost: \$ **36,675.00**

F. Attach itemized (line item) budget – see template

Attach specific project plans, detailed sketches, plan views, photographs, maps, evidence of landowner consent, evidence of public support, and/or other information necessary to evaluate the merits of the project. If project involves water leasing or water salvage complete supplemental questionnaire (fwp.mt.gov/habitat/futurefisheries/supplement2.doc).

H. Attach land management and maintenance plans that will ensure protection of the reclaimed area.

III. PROJECT BENEFITS*

A. What species of fish will benefit from this project?:

Primarily westslope cutthroat trout.

B. How will the project protect or enhance wild fish habitat?:

By installing an effective fish screen and headgate, the project will improve connectivity and recruitment potential for wild trout populations including native trout.

C. Will the project improve fish populations and/or fishing? To what extent?:

Yes. Shanley Creek flows into Cottonwood Creek and ultimately a section of the Blackfoot River that receives a high amount of fishing pressure. This project is designed to eliminate limiting factors hindering the recruitment of native fish.

D. Will the project increase public fishing opportunity for wild fish and, if so, how?:

Yes, by improving spawning and rearing habitat and recruitment sources for westslope cutthroat trout of the Blackfoot River.

E. If the project requires maintenance, what is your time commitment to this project?:

The landowner has agreed to sign a 20-year agreement. BBCTU also has hired a fish screen maintenance technician to ensure screens are working throughout the irrigation season.

F. What was the cause of habitat degradation in the area of this project and how will the project correct the cause?:

The unscreened, unregulated diversion is entraining trout populations and is not efficient with water use.

G. What public benefits will be realized from this project?:

This project involves the continuation of the partnership driven Blackfoot Restoration program and will benefit a MT Species of Special Concern. In addition to improving fish survival and migration, this project can be an excellent educational opportunity for the University of Montana field classes at the Bandy Ranch.

H. Will the project interfere with water or property rights of adjacent landowners? (explain):

No. The screen is sized for the appropriate water right.

I. Will the project result in the development of commercial recreational use on the site?: (explain):

No.

J. Is this project associated with the reclamation of past mining activity?:

No

Each approved project sponsor must enter into a written agreement with the Department specifying terms and duration of the project.

IV. AUTHORIZING STATEMENT

I (we) hereby declare that the information and all statements to this application are true, complete, and accurate to the best of my (our) knowledge and that the project or activity complies with rules of the Future Fisheries Improvement Program.

Applicant Signature:



Date:

5-19-2016

Sponsor (if applicable):

***Highlighted boxes will automatically expand.**

**Mail To: Montana Fish, Wildlife & Parks
Habitat Protection Bureau
PO Box 200701
Helena, MT 59620-0701**

**E-mail To: Michelle McGree
mmcgree@mt.gov**

**Incomplete or late applications will be returned to applicant.
Applications may be rejected if this form is modified.**

***** Applications may be submitted at anytime, but must be received by the Future Fisheries Program office in Helena before December 1 and June 1 of each year to be considered for the subsequent funding period.*****

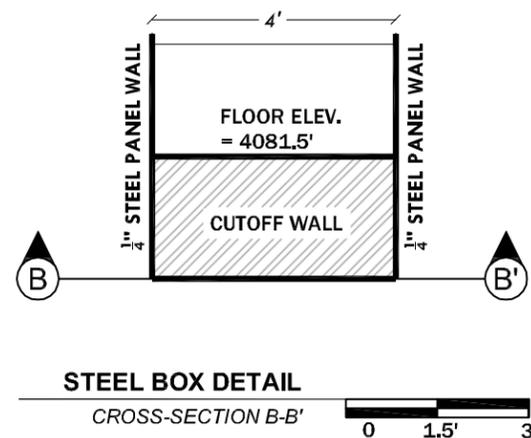
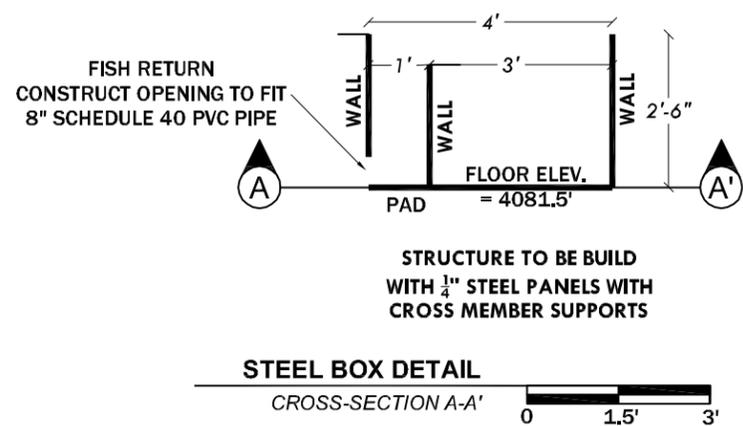
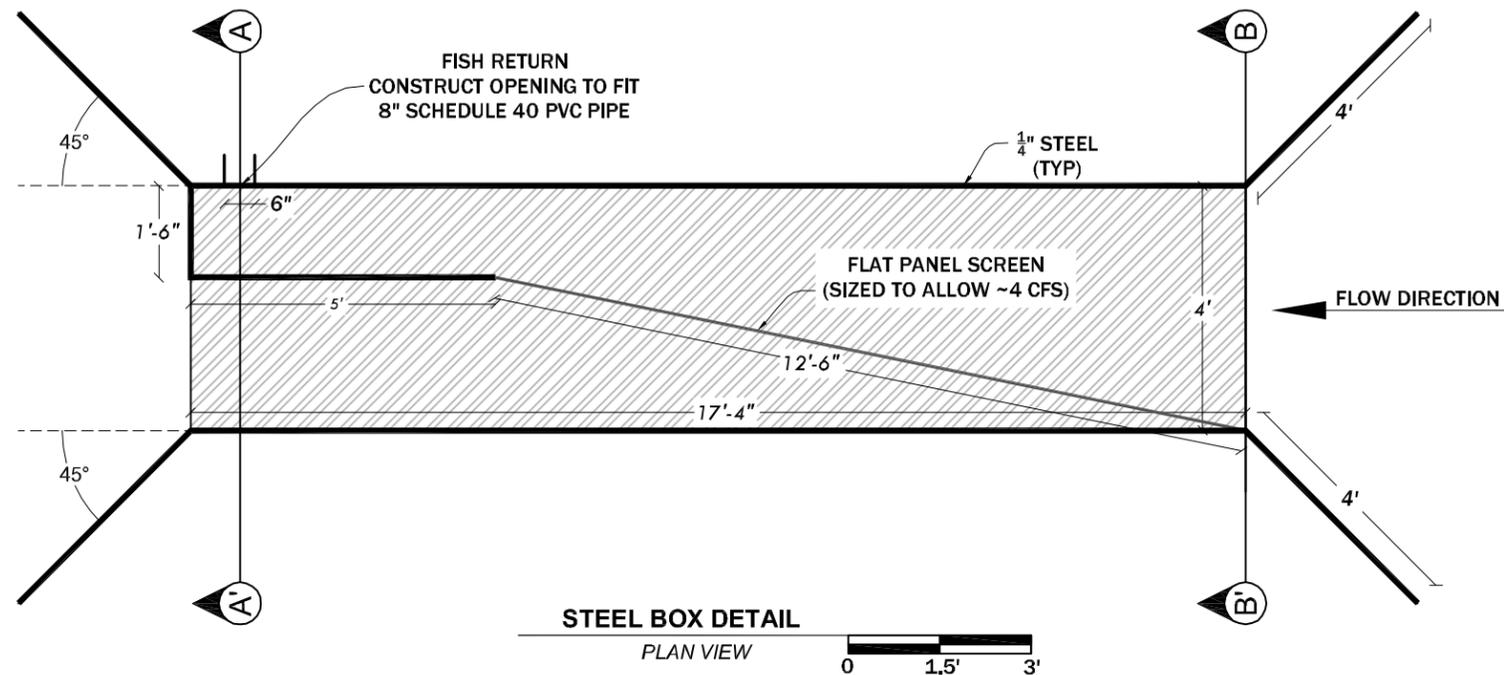
BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS

WORK ITEMS (ITEMIZE BY CATEGORY)	NUMBER OF UNITS	UNIT DESCRIPTION*	COST/UNIT	TOTAL COST	CONTRIBUTIONS			
					FUTURE FISHERIES REQUEST	IN-KIND SERVICES	IN-KIND CASH	TOTAL
Personnel								
Survey	5	hrs	\$50.00	\$ 250.00		\$ 250.00		\$ 250.00
Design	20	hrs	\$80.00	\$ 1,600.00		\$ 1,600.00		\$ 1,600.00
Permitting	15	hrs	\$50.00	\$ 750.00		\$ 750.00		\$ 750.00
Oversight	20	hrs	\$50.00	\$ 1,000.00		\$ 1,000.00		\$ 1,000.00
Labor	15	hrs	\$45.00	\$ 675.00			\$ 675.00	\$ 675.00
			Sub-Total	\$ 4,275.00				\$ 4,275.00
Travel								
Mileage				\$ -				
Per diem				\$ -				
			Sub-Total	\$ -				
Construction Materials								
Fish Screen	1	each	\$19,500.00	\$ 19,500.00	9,000.00		10,500.00	\$ 19,500.00
Headgate	1	each	\$4,000.00	\$ 4,000.00	2,000.00		2,000.00	\$ 4,000.00
Steel infrastructure	1	each	\$6,000.00	\$ 6,000.00	3,000.00		3,000.00	\$ 6,000.00
			Sub-Total	\$ 29,500.00				\$ 29,500.00
Equipment								
Hydraulic Excavator	20	hours	\$120.00	\$ 2,400.00	1,000.00		1,400.00	\$ 2,400.00
			Sub-Total	\$ 2,400.00				\$ 2,400.00
Mobilization								
Equipment	1	lump sum	\$500.00	\$ 500.00	250.00		250.00	\$ 500.00
			Sub-Total	\$ 500.00				\$ 500.00
			TOTALS	\$ 36,675.00	\$15,250	\$3,600	17,825.00	\$36,675

*Units = feet, hours, inches, lump sum, etc.

MATCHING CONTRIBUTIONS

CONTRIBUTOR	IN-KIND SERVICE	IN-KIND CASH	TOTAL	Verified? (Y/N)
USFWS	\$ -	\$ 10,000.00	\$ 10,000.00	Yes
Big Blackfoot Chapter of Trout Unlimited	\$ 3,600.00	\$ 7,825.00	\$ 11,425.00	Yes



SCREEN SPECIFICATIONS	
LENGTH	12.5 FT
HEIGHT	2.0 FT
OPENING SIZE	0.117 IN
OPEN AREA	50%
DESIGN FLOW	4 CFS
WATER RIGHT	4 CFS
SWEEPING VELOCITY	1.0 FT/S
APPROACH VELOCITY	0.4 FT/S

SHANLEY CREEK DIVERSION

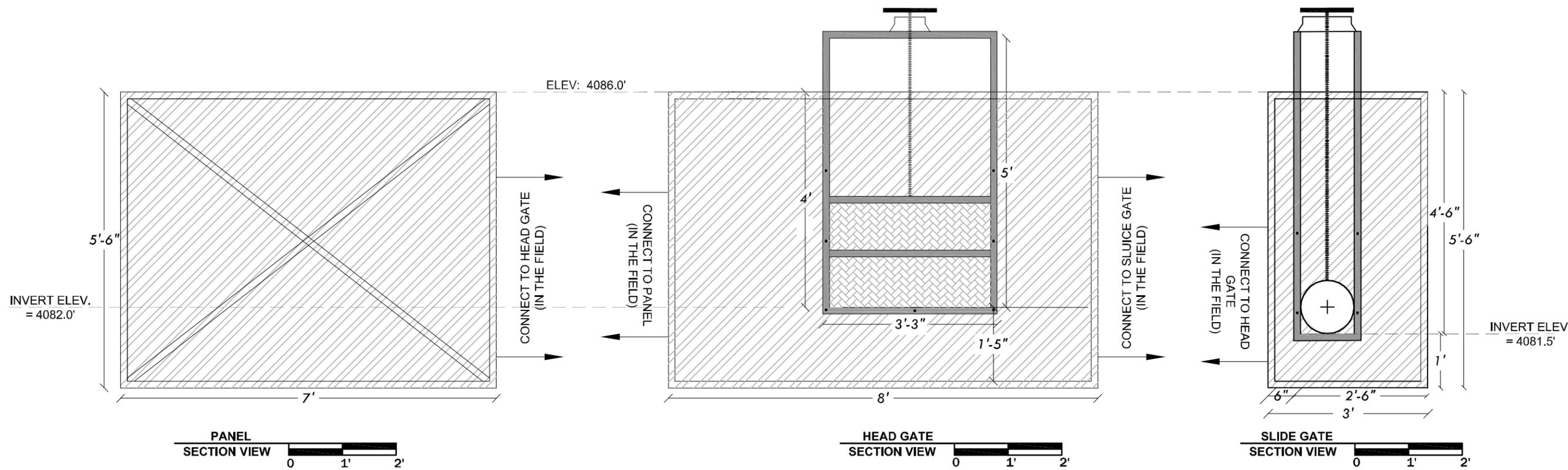
STEEL FISH SCREEN BOX DETAIL

NO.	DATE	BY	DESCRIPTION	CHK
1	5-17-16	NW	PRELIMINARY DESIGN	JM

PROJECT NUMBER
 RDG-16-xxx

SHEET NUMBER

F-1



 1/4" PLATE STEEL (NO BENDS)
  INTAKE SLUICE GATE A 200 GRADE ALUMINUM

NOTE: SLUICE PIPE INTAKE MUST MATCH 12" PVC PIPE

**SHANLEY CREEK DIVERSION
 HEAD GATE AND SLUICE GATE DETAIL**

NO.	DATE	BY	DESCRIPTION	CHK
1	5-17-16	NW	PRELIMINARY DESIGN	JM

PROJECT NUMBER
RDG-16-xxx

SHEET NUMBER

F-2



Photos 1-2: Existing, non-functioning fish screen on Shanley Creek.

Shanley Creek Fish
Screen Location