

I.

APPLICANT INFORMATION

FUTURE FISHERIES IMPROVEMENT PROGRAM GRANT APPLICATION All sections must be addressed, or the application will be considered invalid



A.	Applicant N	Name:			
	Mailing Ad	dress:			
				Zip:	
	Telephone				
B.	Contact Pe				
	Address:	_			
	City:		State:	Zip:	
	Telephone	:	E-mail:		
C.		r and/or Lessee Name than applicant):			
	Mailing Ad	dress:			
				Zip:	
	Telephone	:	E-mail:		
PR	OJECT INF	ORMATION			
A.	Project Na	me:			
		am, or lake:			
		Township:	Range:	Section:	
		Latitude:	Longitude:	Within project (decimal degre	es)
	County: _				
			n why the project is import		

C.	Brief Project Description (attach additional information to end of application). Please include the anticipated construction schedule:
D.	What was the cause of habitat degradation and how will the project correct the cause?

including short term and long term grazing regimes. If the landowner is not the applicant, please describe their involvement in the project. If you want assistance with grazing plan development, note your need.

	C.	Will the project be monitored to determine if goals were met? If so, what are the short-term and long-term plans to assess benefits and lessons learned? Were pre-project data collected? Will monitoring information be shared with FWP?
IV.	PR	OJECT BENEFITS (attach additional information to end of application):
	A.	What species of fish will benefit from this project?
	В.	How will the project protect or enhance wild fish habitat?
	C.	What is the expected improvement to fish populations, both short term and long term? How might the project translate to angler success?

	D.		c fishing opportunity for wild fish and, if so, how? Is public fishing y permission? If not, describe how the public would benefit.
	E.	Aside from angling, what loca	or large-scale public benefits will be realized from this project?
	F.	Will the project interfere with v	vater or property rights of adjacent landowners? (explain):
	G.	Will the project result in the de access)? Explain:	evelopment of commercial recreational use on the site (including paid
	Н.	Is this project associated with	the reclamation of past mining activity?
	Fach an	proved project applicant mus	t enter into a written agreement with Montana Fish, Wildlife &
	Parks sp	pecifying terms and duration	of the project. The applicant must obtain all applicable permits etitive bid process must be followed when using State funds.
,		THORIZING STATEMENT	
	acc	curate to the best of my (our) kn	mation and all statements to this application are true, complete, and owledge and that the project or activity complies with rules of the
	Fut	ure Fisheries Improvement Pro	gram.
,	Applicant	t Signature: Brian Bo	artkowiak Date:
			ed and received on or before November 15 and May 15 to be ing period. Late or incomplete applications will be rejected.
I	Mail to:	FWP Future Fisheries	Email: Future Fisheries Coordinator
1		Fish Habitat Bureau	FWPFFIP@mt.gov

Mail to: FWP Future Fisheries
Fish Habitat Bureau
PO Box 200701
Helena, MT 59620-0701
For files over 10MB, use https://transfer.mt.gov and send to mmcgree@mt.gov

BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS

Both tables must be completed or the application will be returned

		th tables must be	comp	leted or the a	applic	cation will be ref	turne	ed						
PROJECT COSTS							CONTR	IBUTIO	ONS					
								FUTURE			0	OTHER		
	NUMBER	UNIT	_					ISHERIES		TCH (Cash or		part of this		
WORK ITEMS (Itemize by Category)	OF UNITS	DESCRIPTION*	С	OST/UNIT		TOTAL	R	EQUEST	•	Services)**	ар	plication)	<u> </u>	TOTAL
Personnel***														
Survey		LS	\$		\$	15,000			\$	15,000			\$	15,000
Design/Engineering	1	LS	\$		\$	190,000			\$	190,000			\$	190,000
Permitting		LS	\$		\$	175,000			\$	175,000			\$	175,000
Oversight		LS	\$	80,000	\$	80,000			\$	80,000			\$	80,000
NRDP Project Management	1	LS	\$	30,000	\$	30,000					\$	30,000	\$	30,000
							Ļ						₩	
			Sub	-Total	\$	490,000	\$	-	\$	460,000	\$	30,000	\$	490,000
<u>Travel</u>														
Mileage		site visits/meetings			_		1							
Per diem	0	EA	\$		\$	-	Ļ				\$	-	\$	-
			Suk	-Total	\$	-	\$	-	\$	-	\$	-	\$	-
Construction Materials****													п.	
36" Diameter Boulders	244	EA	\$	200		24,400			\$	24,400			\$	24,400
Riprap	164	CY	\$	75		10,300	I		\$	10,300			\$	10,300
Cobbles (8" Diameter)	160	CY	\$	50		8,000	\$	4,000	\$	4,000			\$	8,000
Geotextile Separation Fabric	665	YD2	\$	10		6,650			\$	6,650			\$	6,650
Bedding Gravel	35	CY	\$	50	\$	1,750			\$	1,750			\$	1,750
12" HDPE Pipe	14	LF	\$	140	\$	1,960			\$	1,960			\$	1,960
15" PVC Pipe	22	LF	\$	150	\$	3,300			\$	3,300			\$	3,300
18" HDPE Pipe	137	LF	\$	115	\$	15,755			\$	15,755			\$	15,755
24" RCP Pipe	79	LF	\$	125	\$	9,875			\$	9,875			\$	9,875
Golf Course Sod	1,500		\$	8		12,000			\$	12,000			\$	12,000
Upland Soil Seeding/Planting	2	AC	\$	5,000		9,500			\$	9,500			\$	9,500
Riparian Soil Seeding/Planting	1	AC	\$	5,000		1,350			\$	1,350			\$	1,350
Agridrain	1	LS	\$		\$	5,000	\$	5,000	\$	-			\$	5,000
Coanda Screen, Type A0.25	1	LS	\$	17,500	\$	17,500			\$	17,500			\$	17,500
Cistern and Stilling Vaults	1	LS	\$	10,000	\$	10,000			\$	10,000			\$	10,000
Sediment Vault, Pipe Connections, & Sluice Gate	1	LS	\$	11,500	\$	11,500			\$	11,500			\$	11,500
Granular Fill Material	69	CY	\$	30		2,070			\$	2,070			\$	2,070
Erosion Control Blanket	2,753	YD2	\$	6	\$	8,518	\$	8,000	\$	518			\$	8,518
Willow Stakes	325	EA	\$	5	-	825			\$	825			\$	825
Junction Structure (4' Diameter)	1	EA	\$	5,700	\$	5,700			\$	5,700			\$	5,700
Concrete Sewer Casing Patch	1	LS	\$	1,500		1,500			\$	1,500			\$	1,500
Flared End Section (18" HDPE)	1	EA	\$	1,000		1,000			\$	1,000			\$	1,000
Flared End Section (24" RCP)	2	EA	\$	1,500	\$	3,000	L		\$	3,000			\$	3,000
			Suk	-Total	\$	171,453	\$	17,000	\$	154,453.00	\$	-	\$	171,453

Equipment, Labor, and Mobilization										
Mobilization	1	LS	\$	75,000	\$ 75,000		\$ 75,000		\$	75,000
Taxes Bonds, and Insurance	1	LS	\$	10,000	\$ 10,000		\$ 10,000		\$	10,000
Utilities Coordination	1	CY	\$	5,000	\$ 5,000		\$ 5,000		\$	5,000
Erosion Control	1	LS	\$	18,000	\$ 18,000		\$ 18,000		\$	18,000
Clearing and Grubbing	1	LS	\$	8,500	\$ 4,250		\$ 4,250		\$	4,250
Dewatering	1	LS	\$	50,000	\$ 50,000		\$ 50,000		\$	50,000
Topsoil Salvage and Place	1,826	CY	\$	15	\$ 13,695	\$ 13,695	\$ -		\$	13,695
Excavation & Grading	8,152	CY	\$	25	\$ 173,800	\$ 30,000	\$ 143,800		\$	173,800
Fill and Grading	121	CY	\$	30	\$ 1,815		\$ 1,815		\$	1,815
Excess Fill Placement	2,000	CY	\$	5	\$ 5,000		\$ 5,000		\$	5,000
Excess Fill Disposal	6,100	CY	\$	15	\$ 91,500		\$ 91,500		\$	91,500
Remove and Replace Cart Path	510	YD2	\$	35	\$ 17,850		\$ 17,850		\$	17,850
									\$	-
			Sub	-Total	\$ 465,910	\$ 43,695	\$ 422,215	\$ -	\$	465,910
			1	TOTALS	\$ 1,127,363	\$ 60,695	\$ 1,036,668	\$ 30,000	\$ ^	1,127,363

OTHER REQUIREMENTS:

All of the columns in the budget table and the matching contribution table MUST be completed appropriately or the application will be invalid. Please see the example budget sheet for additional clarification.

*Units = feet, hours, inches, etc. Do not use lump sum unless there is no other way to describe the costs.

**Can include in-kind materials. Justification for in-kind labor (e.g. hourly rates used). Do not use government salaries as match. Describe here or in text.

***The Review Panel suggests that design and oversight costs associated with a proposed project not exceed 15% of the total project budget. If design and oversight costs are in excess of 15%, applications may require a justification or minimum of two competitive bids for the cost of undertaking the project. For projects that include a maintenance request, it must not exceed 10% of the total project cost.

****The Review Panel recommends a maximum fencing cost of \$1.50 per foot. Additional costs may be the responsibility of the applicant and/or partners.

Additional details:

APPLICATION MATCHING CONTRIBUTIONS										
(do not inclu	(do not include requested funds or contributions not associated with the application)									
CONTRIBUTOR		IN-KIND	CASH		TOTAL	Secured? (Y/N				
BCC	\$	10,000	\$ -	\$	10,000	Y				
BSB	\$	5,000	\$ -	\$	5,000	Y				
NRDP	\$	-	\$ 1,036,668	\$	1,036,668	Y				
	\$	-	\$ -	\$	-					
	TOTALS \$	15,000	\$ 1,036,668	\$	1,051,668.00					

(contributions not associated with the application)

001-2025

BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS

CONTRIBUTOR		IN-KIND	CASH	TOTAL	Secured? (Y/N)
NRDP Staff Time (Project Management)		\$ 30,000	\$ -	\$ 30,000	Y
DEQ 319 Grant (Applied November 1, 2024)		\$ =	\$ 50,000	\$ 50,000	N
Butte Area One Settlement (Pending consideration by Council and approval by Trustee)		\$ -	\$ 100,000	\$ 100,000	N
Bonneville Power Administration Grant (for fish screens)		\$ =	\$ -	\$ =	N
USFWS Partners for Fish and Wildlife		\$ -	\$ -	\$ =	N
		\$ -	\$ -	\$ -	
•	TOTALS	\$ 30,000	\$ 150,000	\$ 180,000	

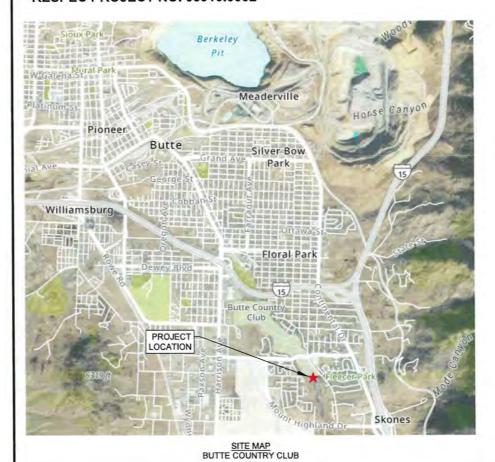
MAPS/ DESIGNS

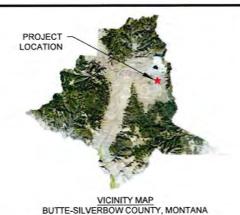




BLACKTAIL CREEK BSB SEWER CROSSING IMPROVEMENTS PROJECT

NATURAL RESOURCE DAMAGE PROGRAM JUNE 2024 RESPEC PROJECT NO. 03910.0002





Sheet Index							
Sheet #	Title						
G-01	COVER SHEET						
G-02	GENERAL NOTES AND QUANTITIES						
C-01	EXISTING CONDITIONS						
C-02	PROPOSED PLAN						
C-03	PROPOSED PROFILE & SECTIONS						
R-01	REVEGETATION PLAN						
R-02	REVEGETATION NOTES						
D-01	ROCK WEIR DETAILS						
D-02	STEP POOL BANK DETAILS						
D-03	WILLOW STAKE PLANTING DETAIL						

MATTHEW WYNN JOHNSON REGISTERED PROFESSIONAL ENGINEER STATE OF MONTANA NO. PEL-PE-LIC-32820 ENTER CONTROL OF THE CONTROL OF THE







NATURAL RESOURCE DAMAGE PROGRAM PO BOX 201425 BUTTE, MT 59620

> SLACKTAIL CREEK BSB SEWER CROSSING PROVEMENTS PROJECT

COVER SHEET

G-01

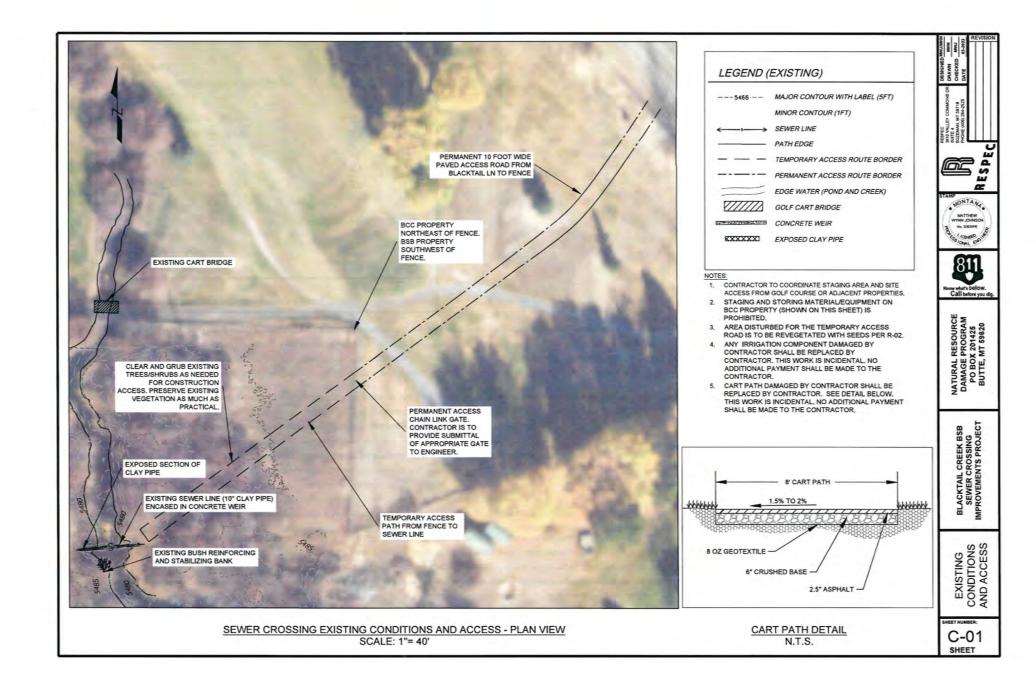
GENERAL NOTES:

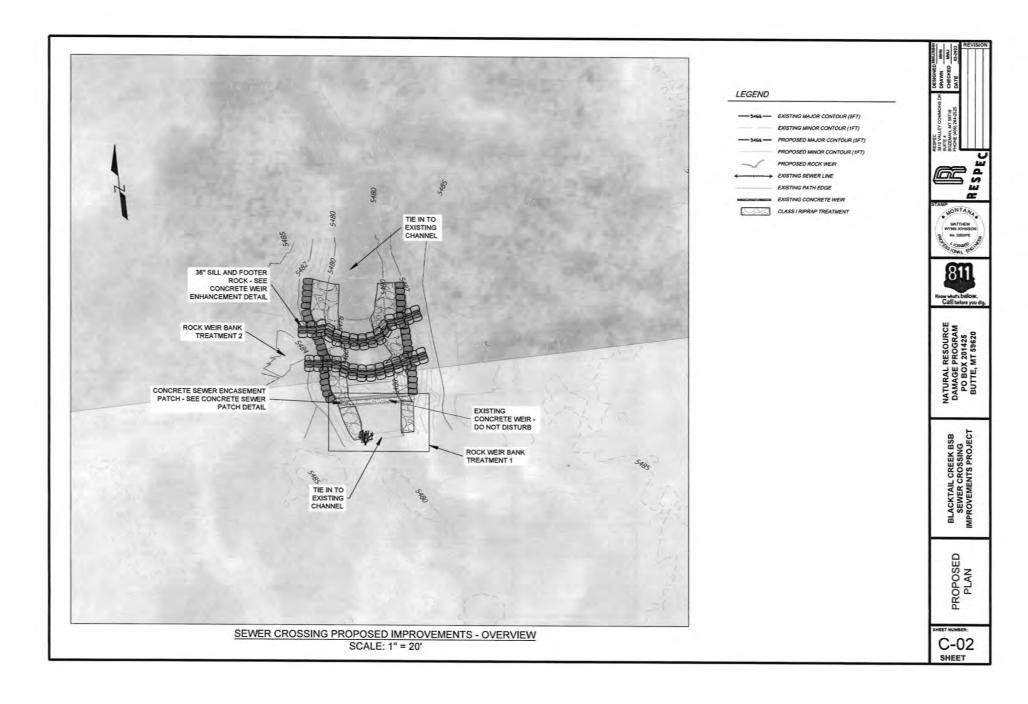
- 1. ALL SCALES LISTED ARE ASSOCIATED WITH AN 11"x17" PRINTED PLAN SET SUCH THAT 1 WICH ON PAPER IS EQUAL TO X FEET ON THE GROUND (SCALE FORMAT: 1"=X").
- 2. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND DETERMINE LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK, CALL \$11 (OR ONE CALL UTILITY LOCATE: 1-809-424-5555) A MINIMUM OF 72-HOURS BEFORE WORK IS PLANNED, CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND PROPERLY REPAIRING ANY AND ALL DAMAGED UTILITIES. THE LOCATE MUST BE CURRENT PRIOR TO PERFORMING EXCAVATION OR OTHER GROUND-PENETRATING ACTIVITIES.
- 3. ANY UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. ALL UTILITY LOCATIONS ARE SUBJECT TO THE ACCURACY OF THE LOCATION METHOD AND SUBJECT TO RELOCATION FROM THE TIME THAT THESE DRAWINGS WERE PREPARED.
- 4. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB, ON-SITE AT ALL TIMES.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF ALL PERSONNEL, ALL SITE VISITORS, AND THE GENERAL PUBLIC WHO MAY BE AFFECTED BY THE CONSTRUCTION INCLUDING SITE SAFETY AND CONTROL.
- 6. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS FOUND BETWEEN THE CONSTRUCTION PLANS AND CONDITIONS ENCOUNTERED IN THE FIELD,
- 7. CONTRACTOR SHALL, UNLESS OTHERWISE DIRECTED, REPLACE ALL SIGNS, FENCES, CABLES, APPROACH DELINEATORS, OR OTHER FEATURES THAT MAY BE REMOVED TO ACCESS THE CONSTRUCTION AREA, CONTRACTOR SHALL VERIFY THE NATURE AND EXTENT OF ANY OF THESE FEATURES PRIOR TO BIDDING THE WORK. COST OF THIS WORK SHALL BE INCIDENTAL TO THE PROJECT UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS.
- 8. CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS AND RESTRICTIONS FOUND IN REGULATORY PERMITS OBTAINED BY THE ENGINEER OR OWNER.
- 9. LEGAL LOAD LIMIT REQUIREMENTS SHALL BE ADHERED TO ON ALL STATE HIGHWAYS, COUNTY ROADS, AND CITY STREETS.
- 10. THE CONTRACTOR IS TO PROVIDE THEIR OWN WATER FOR COMPACTION AND DUST ABATEMENT.
- 11, CONSTRUCTION SHALL COMPLY WITH THESE PLANS IN ADDITION TO THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
- 12. ALL EQUIPMENT USED COSITE WILL BE CLEAN AND WASHED PRIOR TO ARRIVAL TO THE PROJECT AREAS, ALL IMPORTED MATERIAL MUST BE CERTIFIED AS WEED FREE
- 13. EMERGENCY SPILL KITS WILL BE MAINTAINED ON EACH PIECE OF EQUIPMENT, OR IN AN AREAS THAT CAN RAPIDLY BE REACHED.
- 14. ALL WORK IN OR ADJACENT TO THE STREAM WILL BE DONE DURING APPROVED TIME WINDOWS, AS SPECIFIED IN THE SPECIAL PROVISIONS.
- 15. STRUCTURAL BMPS, SUCH AS SILT FENCE, STRAW BALES OR WATTLES SHALL BE USED TO ISOLATE CONSTRUCTION ALONG THE ACTIVE CHANNEL AS NECESSARY.
- 16. ALL EXPOSED SOILS WILL BE STABILIZED ONCE CONSTRUCTION IS COMPLETED. SOILS WILL BE STABILIZED USING VARIOUS TECHNIQUES AS DESCRIBED IN THIS PLAN INCLUDING EROSION CONTROL FABRIC, SEEDING, SOD TRANSPLANT AND PLANTING. AL
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAVING AND PROTECTING ALL EXISTING TREES AND VEGETATION WHERE REMOVAL FOR CONSTRUCTION IS NOT MANDATORY.
- 18. CONTRACTOR TO COORDINATE DAILY CONSTRUCTION ACTIVITIES WITH THE PROPERTY OWNER'S REPRESENTATIVE (BUTTE COUNTRY CLUB AND BUTTE-SILVER COUNTY) AND THE ENGINEER.
- 19. MINIMIZE TRAFFICKING AND DISTURBANCE TO FAIRWAYS AND ALL OTHER GOLF COURSE RELATED INFRASTRUCTURE, CONTRACTOR IS RESPONSIBLE FOR REPAIRING/REPLACING ALL DAMAGED INFRASTRUCTURE.
- 20, ALL ESTIMATES OF QUANTITIES SHALL BE VERIFIED BY THE CONTRACTOR/SUBCONTRACTOR, WHO SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES AND PROVIDING THE WORK AND MATERIALS AS SHOWN ON THE PLANS.

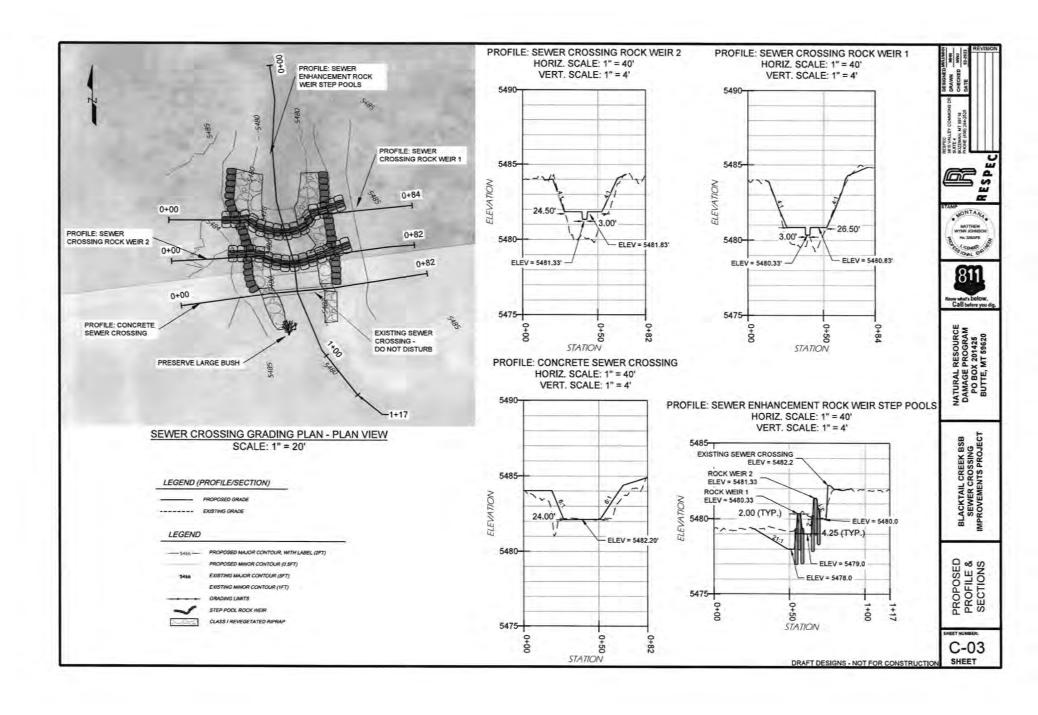
Item	Unit	Quantity
Topsoil Salvage and Place	CY	50
Excavation and Grading	CY	115
Fill and Grading	CY	0
Concrete Sewer Casing Patch	CY	0.25
Boulders (36")	EA.	110
Class I Riprap	CY	40
Bedding Gravel	CY	15
Coir Erosion Control Blanket	SY	150
Geotextile Separation Fabric	SY	460
Riparian Soil Prep/Seeding/Planting	AC	0.04
Willow Stakes	EA	240

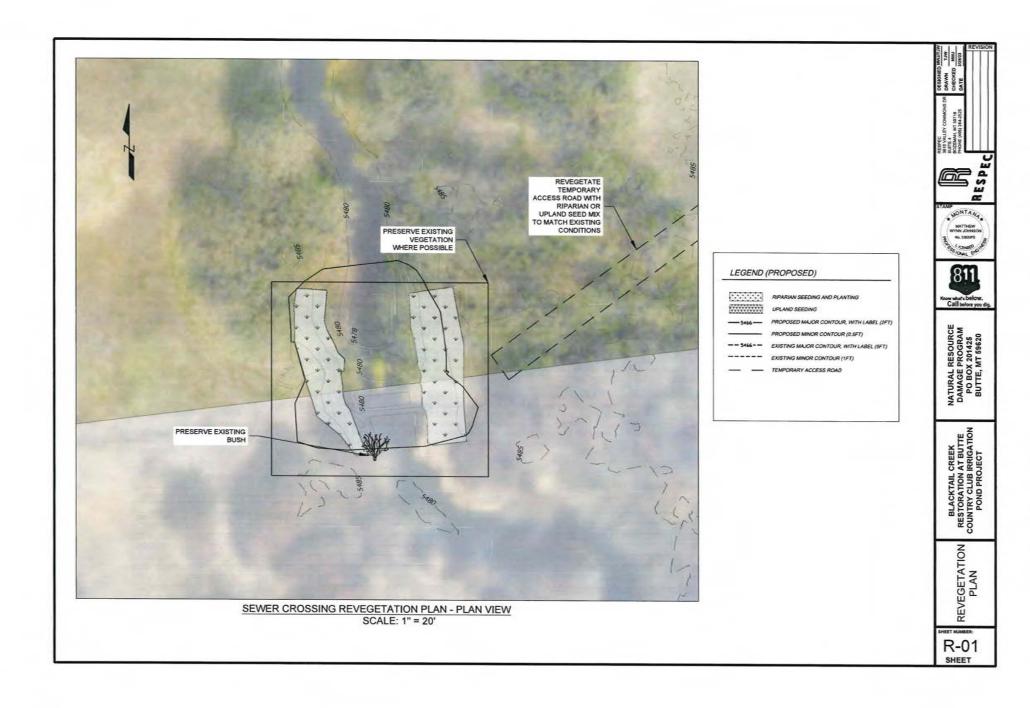
	PRETECTION OF THE PROPERTY OF
EAND	RESPEC
	MONTA AS WATTHEW WINDS APPROCES
G. ALL	Kines wher's bodow: Call before you do.
	NATURAL RESOURCE DAMAGE PROGRAM PO BOX 201425 BUTTE, MT 58620
	BLACKTAIL CREEK BSB SEWER CROSSING IMPROVEMENTS PROJECT
	GENERAL NOTES AND QUANTITIES

G-02









REVEGETATION NOTES AND SEED MIXES

Riparian Revegetation Mix

Scientific Name 1	Common name 1	% of Mix	Lbs. PLS/Acre
Beckmannio syzigachne (OBL)	American sloughgrass	34	1.5
Calamagrostis canadensis (FACW)	Bluejoint	10	1
Elymus trachycaulus (FAC)	Slender wheatgrass	38	4
Deschampsia cespitosa (FACW)	Tufted hairgrass	5	0.5
Juneus torreyi (FACW)	Torrey's rush	5	0.5
Glyceria grandis (FACW)	American mannagrass	19%	2
Juncus balticus (FACW)	Baltic rush	5%	0.5
Paa palustris (FAC)	Fowl bluegrass	5%	0.5
	TOTAL	100%	10.5

If species are unavailable or cost prohibitive at the time of seed purchase, RESPECs project manager must approve substitutions.

Upland Revegetation Mix

(For use on drier areas between the stream and the solf course - lower to medium height species grasses)

Scientific Name 1	Common name *	% of Mix	Lbs. PLS/Acre ²
Lollum perenne (FACU)	Electra 37 perennial ryegrass	25%	43.4
Lollum perenne (FACU)	Tier 4 perennial ryegrass	25%	43.4
Poa pratensis (FACU)	Midnight Kentucky Bluegrass	17%	29.4
Poa pratensis (FACU)	Rockstar Kentucky Bluegrass	16%	28.7
Paa pratensis (FACU)	Shamrock Kentucky Bluegrass	16%	27.9
TOTAL		100%	174

Many of these species are native but grasses used in golf tourses, parks, schools and soo farms. If species are unavailable or cost prohibitive at the time of seed purchase, RESPECs project manager must approve substitutions.

REVEGETATION NOTES

- 1. SUITABLE SURFACE SOIL FILL MATERIAL WILL BE APPROVED BY AND PLACED UNDER THE DIRECTION OF THE ONSITE ENGINEER.
 - a. FILL MATERIAL WILL BE PLACED IN A MANNER THAT DOES NOT CAUSE SEGREGATION; THIS SOIL WILL BE FREE OF ANY TRASH, LARGE ROCKS, SOIL CLODS, STUMPS, BRUSH AND NOXIOUS WEEDS. SOILS USED FOR VEGETATIVE COVER SOIL WILL BE HAND TEXTURED TO DETERMINE SOIL TEXTURE. MINOR QUANTITIES OF ORGANIC MATERIALS, ROOTS, ARE ACCEPTABLE IF EVENLY DISTURBED, AS APPROVED BY THE ONSITE PROJECT MANAGER.
 - b. FROZEN FILL MATERIAL WILL NOT BE UTILIZED FOR FILL SOIL, NOR WILL FILL MATERIAL BE PLACED ON ICE TO ACCOMMODATE THE INSTALLATION OF THE FILL SOILS.
 - C. IN THE TOP 12 INCHES OF FILL, THE ROCK CONTENT (I.E. PARTICLES > 2.0 MM) MUST CONSTITUTE < 10% (BY VOLUME) OF THE FILL SOIL AND THE MAXIMUM ALLOWABLE ROCK SIZE IS 1 INCH IN DIAMETER. FILL BELOW 12 INCHES SHALL HAVE A ROCK CONTENT < 20% (BY VOLUME) AND THE MAXIMUM ALLOWABLE ROCK SIZE IS 3 INCHES IN DIAMETER. SOIL WILL BE A FRIABLE MATERIAL AND THE < 2.0 MM FRACTION CHARACTERIZED AS LOAM, CLAY LOAM, SILTY CLAY LOAM, SILT LOAM OR A FINE SANDY LOAM OR SANDY CLAY LOAM.
- 2. BEFORE GRADING ACTIVITIES IN EXISTING FLOODPLAIN AREAS SOD SHALL BE SALVAGED FOR PLACEMENT IN PROPOSED FLOODPLAIN REVEGETATION AREAS. SEE BELOW FOR NOTES REGARDING SOD MAT SALVAGE AND PLACEMENT,
 - a. SOD MATS MAY BE TRANSPLANTED SUCCESSFULLY AT ANY TIME PROVIDED SUFFICIENT MOISTURE IS AVAILABLE IN THE RECIPIENT PROJECT AREA TO ALLOW FOR CONTINUED GROWTH, ROOT ESTABLISHMENT AND DEVELOPMENT.
 - b. SOD MATS SHALL BE CUT 6" TO 8" THICK USING EXCAVATOR BUCKET WITH SHARP EDGE AND CONTAIN A SUBSTANTIAL AMOUNT OF ROOT MASS. BEST RESULTS ARE ACHIEVED WHEN THE SOILS ARE MOIST BUT WELL DRAINED AT THE TIME OF HARVESTING, AND NEVER WHEN THE GROUND IS FROZEN. THE HARVESTED SOD WILL BE TRANSPORTED TO SPECIFIED REVEGETATION AREAS AND STAGED IN QUANTITIES SPECIFIED IN THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE DESIGNED.
 - C. WITHIN SOD BORROW AREAS, NO MORE THAN 50% OF AN EXISTING WETLAND WILL BE HARVESTED IN A 'CHECKERBOARD' FASHION SO THAT ANY RUNOFF OR SURFACE WATER FROM THE HARVESTED AREA WILL FIRST HAVE TO PASS THROUGH VEGETATED AREAS BEFORE ENTERING THE STREAM AND TO INCREASE THE RATE AT WHICH THE HARVESTED AREAS VEGETATE. PREFERRED BORROW AREAS WILL BE WETLANDS WITH A DOMINANCE OF SEDGE SPECIES.
 - d. UNDER NORMAL CONDITIONS, SOD MATS MAY BE STORED FOR TWO TO THREE DAYS BY UNLOADING THEM AT THE PROJECT SITE AND STACKING OR PLACING THEM ON THE GROUND (AVOID DUMPING SOD MATS IN A PILE). SOD MATS MAY BE STORED FOR LONGER PERIODS PROVIDED THEY ARE KEPT WET, LONG-TERM STORAGE SHOULD BE CONDUCTED ON IMPENETRABLE SURFACES TO LIMIT ROOT ATTACHMENT.
 - e. BEFORE THE SOD IS PLACED, THE CONTRACTOR WILL PERFORM ANY NECESSARY BACKFILLING, STRIPPING OR GRADING AT THE LOCATION WHERE SOD IS TO BE PLACED. AFTER THE SOD HAS BEEN PLACED, SOIL MAY BE USED TO BLEND THE EDGES OF THE SOD INTO THE ADJACENT GRADING.
 - f. TO ENSURE VEGETATION HEALTH IN THE BORROW AREAS THE AREAS WHERE SOD WAS SALVAGED FROM SHALL BE SEEDED WITH THE FLOODPLAIN SEED MIX SPECIFIED BY THE ENGINEER.









NATURAL RESOURCE DAMAGE PROGRAM PO BOX 201425 BUTTE, MT 59620

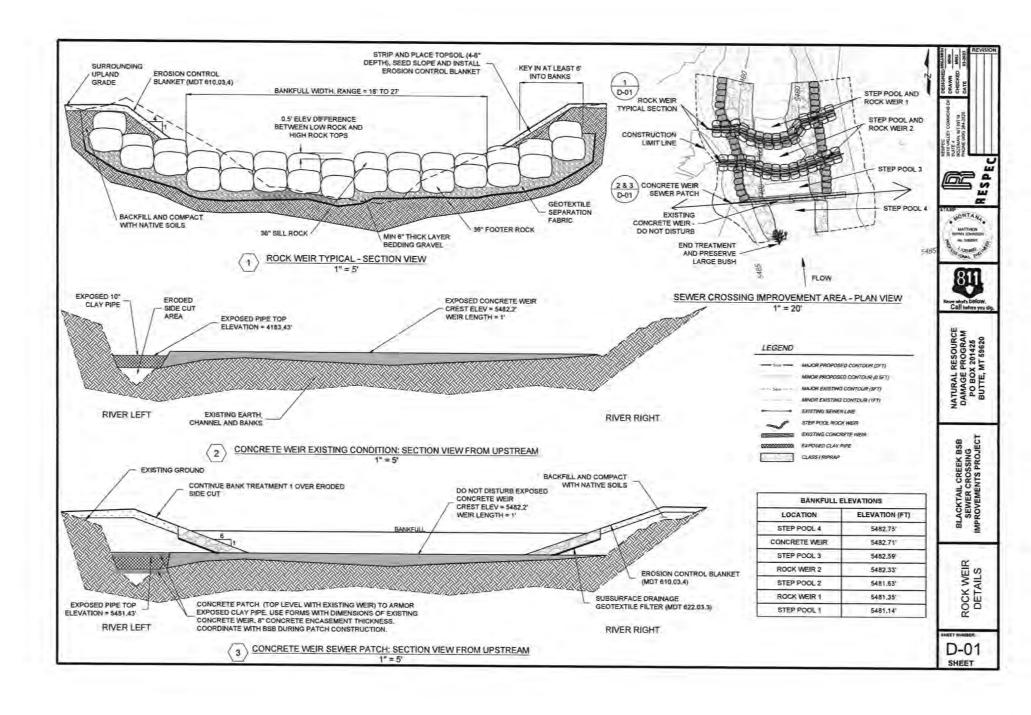
BLACKTAIL CREEK
RESTORATION AT BUTTE
COUNTRY CLUB IRRIGATION
POND PROJECT

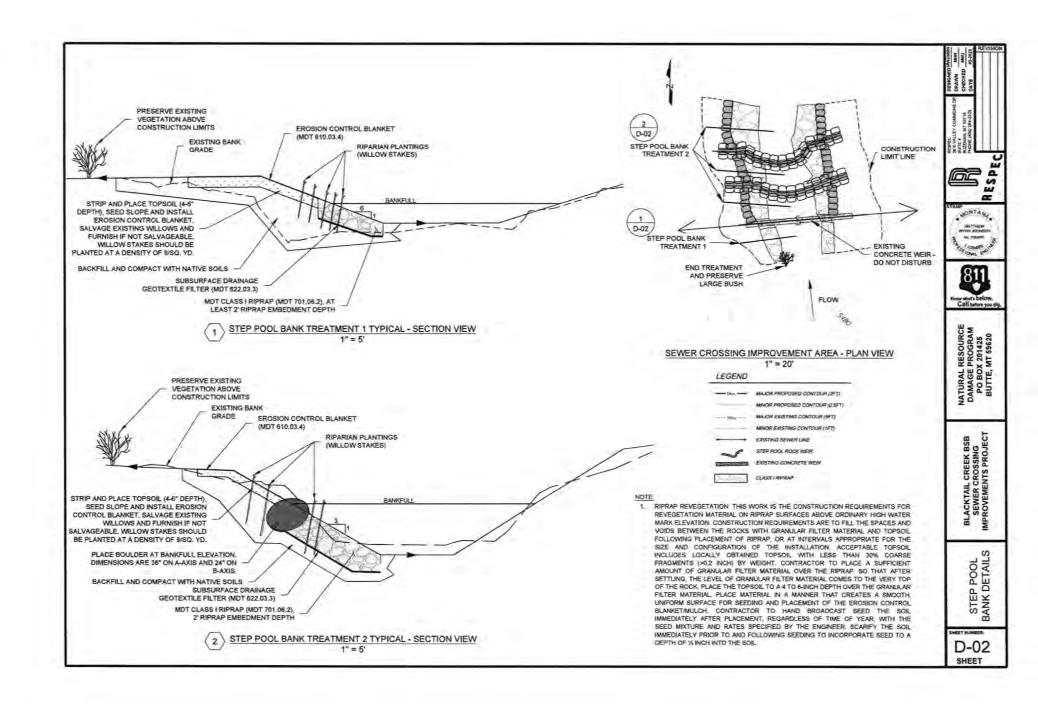
REVEGETATION NOTES

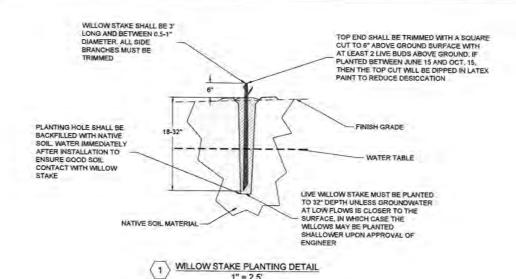
R-02 SHEET

This revegetation mix is to be broadcast seeded by hand at a rate of 10.5 pounds of pure live seed (PLS) per acre-

This revegetation mix is to be broadcast seeded by hand at a rate of 174 pounds of pure live seed (PLS) per acre.







WILLOW STAKE NOTES

1. HARVESTING WILLOW STAKES

- a. CUTTINGS TO BE UTILIZED FOR LIVE PLANTING WILL BE HARVESTED FROM STANDS LOCATED NEAR THE PROJECT SITE THAT ARE HEALTHY STANDS INSPECTED FOR DAMAGE FROM INSECTS OR DISEASE, ONLY CERTAIN SPECIES CAN GENERATE FROM CUTTINGS: SANDBAR WILLOW, BEBB WILLOW, BOOTH WILLOW, DRUMMOND WILLOW AND GEYER WILLOW, NO MORE THAN 1/3 OF ANY INDIVIDUAL PLANT SHALL BE REMOVED. CUTTINGS WILL BE INSPECTED BY THE ENGINEER.
- b. THE CUTTINGS MUST GENERALLY BE ½ TO 1 INCH IN DIAMETER AND LENGTH WILL VARY DEPENDING ON THE DIFFERENT SPECIFIED TREATMENT BUT TYPICALLY 4 TO 6 FEET FOR WILLOW STAKES. PRUNING SHEARS, PRUNING SHEARS, A SMALL WOOD SAW, OR A BRUSH CUTTER CAN BE USED TO HARVEST CUTTINGS.
- c. IMMEDIATELY FOLLOWING HARVESTING, ALL WILLOW CUTTINGS WILL BE BUNDLED IN GROUPS OF 10 OR 20 FOR EASE OF COUNTING AND DISTRIBUTION. ALL CUTTINGS HARVESTED IN THE SPRING WILL BE SOAKED FOR 7 TO 14 DAYS PRIOR TO INSTALLATION. CUTTINGS WILL BE HARVESTED DURING PLANT DORMANCY BEFORE THE SPRING BUD BREAK (TYPICALLY APRIL TO MID-MAY) OR THE FALL (OCTOBER). SOAKING CAN BE ACCOMPLISHED IN A DITCH, STREAM, POND OR OTHER BODY OF FLOWING WATER THAT IS DEEP ENOUGH TO COMPLETELY COVER THE CUTTINGS. IF DORMANT WILLOW CUTTINGS ARE INSTALLED IN THE FALL, THE WILLOW CUTTINGS DO NOT REQUIRE SOAKING PRIOR TO PLANTING ALTHOUGH IT DOES NOT HARM THE STEM IF SOAKED.

2. WILLOW POLE INSTALLATION

- a. WILLOW POLES SHALL BE PLANTED WITH BUDS POINTING UPWARDS (I.E. SAME VERTICAL ORIENTATION AS THE POLE HAD DURING GROWTH). CUTTINGS WILL BE INSERTED DEEP ENOUGH TO REACH THE LOW OR MID-SUMMER WATER TABLE AS FOLLOWS:
- i. AT LEAST 6 INCHES OF THE CUTTING ARE IN THE LOW WATER TABLE.
- ii. 3 TO 4 BUDS ARE ABOVE THE GROUND SURFACE ELEVATION.
- iii. 1 TO 4 CUTTINGS CAN BE PLACED SMALL CLUSTERS IN EACH HOLE.
- b. CUTTINGS CAN BE INSTALLED USING A 5- TO 6-FOOT-LONG EXCAVATOR-MOUNTED DIBBLE BAR, SOIL AUGERS, A WATERJET STINGER, PLANTING BARS, OR BY PUSHING THE CUTTINGS INTO MOIST SOIL BY HAND. THE RECOMMENDED INSTALLATION METHOD IS THE EXCAVATOR MOUNTED DIBBLE BAR DUE TO THE DIFFERENT BANK DEPTHS AND INSERTION THROUGH EROSION CONTROL FABRIC.
- C. IT IS ESSENTIAL TO HAVE GOOD CONTACT BETWEEN CUTTINGS AND SOIL FOR ROOTS TO SPROUT. AIR POCKETS AROUND THE CUTTINGS WILL KILL THE ROOTS. MUD OR "WATER-IN" THE CUTTINGS AFTER THEY ARE PLACED IN THE HOLE. ADDITIONAL SOIL OR SAND MAY BE SEEDED TO ENSURE GOOD SOIL TO STEM CONTACT. PREFERENCE SHOULD BE GIVEN TO NATIVE SOIL NEARBY TO ENCOURAGE MYCORRHIZAL FORMATION AND/OR NODULE FORMATION BY NITROGEN-FIXING ORGANISMS.
- d. FOLLOWING INSTALLATION, VERTICALLY INSTALLED WILLOW WILL LIKELY REQUIRE TRIMMING, I.E. THE TOPS CUT OFF SO THAT ONLY 1/3 OF THE WILLOW CUTTINGS IS ABOVE GROUND. THIS WILL VARY BASED ON THE CUTTING LOCATION AND BANK TREATMENT. THIS CAN EASILY BE DONE BY USING LONG-HANDLED LOPPERS.
- e. CLEAN-UP WOULD REQUIRE EITHER TOSSING THE CUT STEMS INTO THE WATER OR IN BUCKETS OR BAGS FOR REMOVAL OR PLACEMENT AS WOODY DEBRIS WITHIN THE FLOODPLAIN.

DESCRIPTION DES







NATURAL RESOURCE DAMAGE PROGRAM PO BOX 201426 BUTTE, MT 59620

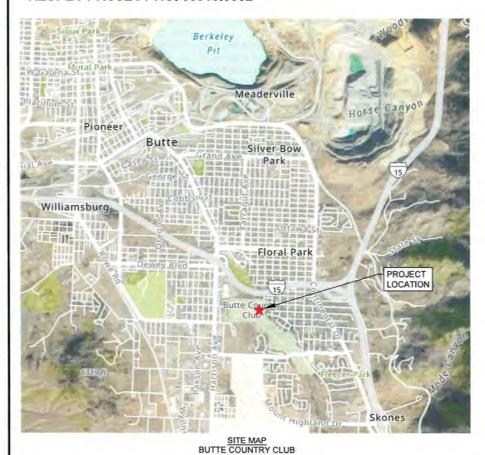
> BLACKTAIL CREEK BSB SEWER CROSSING IMPROVEMENTS PROJECT

> > WILLOW STAKE PLANTING DETAIL

D-03

BLACKTAIL CREEK RESTORATION AT BUTTE COUNTRY CLUB IRRIGATION POND PROJECT

NATURAL RESOURCE DAMAGE PROGRAM **JUNE 2024** RESPEC PROJECT NO. 03910.0002





BUTTE-SILVERBOW COUNTY, MONTANA

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MATTHEW WYNN JOHNSON REGISTERED PROFESSIONAL ENGINEER STATE OF MONTANA NO. PEL-PE-LIC-32820







SHEET COVER

G-01 SHEET

GENERAL NOTES:

- 1. ALL SCALES LISTED ARE ASSOCIATED WITH AN 11"x17" PRINTED PLAN SET SUCH THAT 1 INCH ON PAPER IS EQUAL TO X FEET ON THE GROUND (SCALE FORMAT: 1"=X").
- 2. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND DETERMINE LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK, CALL 811 (OR ONE CALL UTILITY LOCATE: 1-800-424-5555) A MINIMUM OF 72-HOURS BEFORE WORK IS PLANNED. CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND PROPERLY REPAIRING ANY AND ALL DAMAGED UTILITIES, THE LOCATE MUST BE CURRENT PRIOR TO PERFORMING EXCAVATION OR OTHER GROUND-PENETRATING ACTIVITIES.
- 3. ANY UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. ALL UTILITY LOCATIONS ARE SUBJECT TO THE ACCURACY OF THE LOCATION METHOD AND SUBJECT TO RELOCATION FROM THE TIME THAT THESE DRAWINGS WERE PREPARED.
- 4. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB, ON-SITE AT ALL TIMES.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF ALL PERSONNEL, ALL SITE VISITORS, AND THE GENERAL PUBLIC WHO MAY BE AFFECTED BY THE CONSTRUCTION INCLUDING SITE SAFETY AND CONTROL.
- 8. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS FOUND BETWEEN THE CONSTRUCTION PLANS AND CONDITIONS ENCOUNTERED IN THE FIELD.
- 7. CONTRACTOR SHALL, UNLESS OTHERWISE DIRECTED, REPLACE ALL SIGNS, FENCES, CABLES, APPROACH DELINEATORS, OR OTHER FEATURES THAT MAY BE REMOVED TO ACCESS THE CONSTRUCTION AREA. CONTRACTOR SHALL VERIFY THE NATURE AND EXTENT OF ANY OF THESE FEATURES PRIOR TO BIDDING THE WORK. COST OF THIS WORK SHALL BE INCIDENTAL TO THE PROJECT UNLESS OTHERWISE STATED IN THE CONTRACT DOCUMENTS.
- 8. CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS AND RESTRICTIONS FOUND IN REGULATORY PERMITS OBTAINED BY THE ENGINEER OR OWNER.
- 9. LEGAL LOAD LIMIT REQUIREMENTS SHALL BE ADHERED TO ON ALL STATE HIGHWAYS, COUNTY ROADS, AND CITY STREETS.
- 10. THE CONTRACTOR IS TO PROVIDE THEIR OWN WATER FOR COMPACTION AND DUST ABATEMENT.
- 11. CONSTRUCTION SHALL COMPLY WITH THESE PLANS IN ADDITION TO THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
- 12. ALL EQUIPMENT USED ONSITE WILL BE CLEAN AND WASHED PRIOR TO ARRIVAL TO THE PROJECT AREAS, ALL IMPORTED MATERIAL MUST BE CERTIFIED AS WEED FREE.
- 13. EMERGENCY SPILL KITS WILL BE MAINTAINED ON EACH PIECE OF EQUIPMENT, OR IN AN AREAS THAT CAN RAPIDLY BE REACHED.
- 14. ALL WORK IN OR ADJACENT TO THE STREAM WILL BE DONE DURING APPROVED TIME WINDOWS, AS SPECIFIED IN THE SPECIAL PROVISIONS.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAVING AND PROTECTING ALL EXISTING TREES AND VEGETATION WHERE REMOVAL FOR CONSTRUCTION IS NOT MANDATORY.
- 16. STRUCTURAL BMPS, SUCH AS SILT FENCE, STRAW BALES OR WATTLES SHALL BE USED TO ISOLATE CONSTRUCTION ALONG THE ACTIVE CHANNEL AS NECESSARY.
- 17. ALL EXPOSED SOILS WILL BE STABILIZED ONCE CONSTRUCTION IS COMPLETED, SOILS WILL BE STABILIZED USING VARIOUS TECHNIQUES AS DESCRIBED IN THIS PLAN INCLUDING EROSION CONTROL FABRIC, SEEDING, SOD TRANSPLANT AND PLANTING, ALL IMPORTED MATERIAL MUST BE CERTIFIED AS WEED FREE.
- 16. THERE WILL BE NO DRIVING ON GOLF COURSE GREENS OR TEE BOXES.
- 19. CONTRACTOR TO COORDINATE DAILY CONSTRUCTION ACTIVITIES WITH THE PROPERTY OWNER'S REPRESENTATIVE (BUTTE COUNTRY CLUB AND BUTTE-SILVERBOW COUNTY) AND THE ENGINEER.
- 29,MINIMIZE TRAFFICKING AND DISTURBANCE TO FAIRWAYS AND ALL OTHER GOLF COURSE RELATED INFRASTRUCTURE. CONTRACTOR IS RESPONSIBLE FOR REPAIRINS/REPLACING ALL DAMAGED INFRASTRUCTURE.
- 21.ALL ESTIMATES OF QUANTITIES SHALL BE VERIFIED BY THE CONTRACTOR/SUBCONTRACTOR, WHO SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES AND PROVIDING THE WORK AND MATERIALS AS SHOWN ON THE PLANS.
- 22. STAGING/STORING OF MATERIAL AND EQUIPMENT IS ONLY ALLOWED WITHIN THE LIMITS OF THE STAGING AREA DEFINED ON SHEET C-D1.

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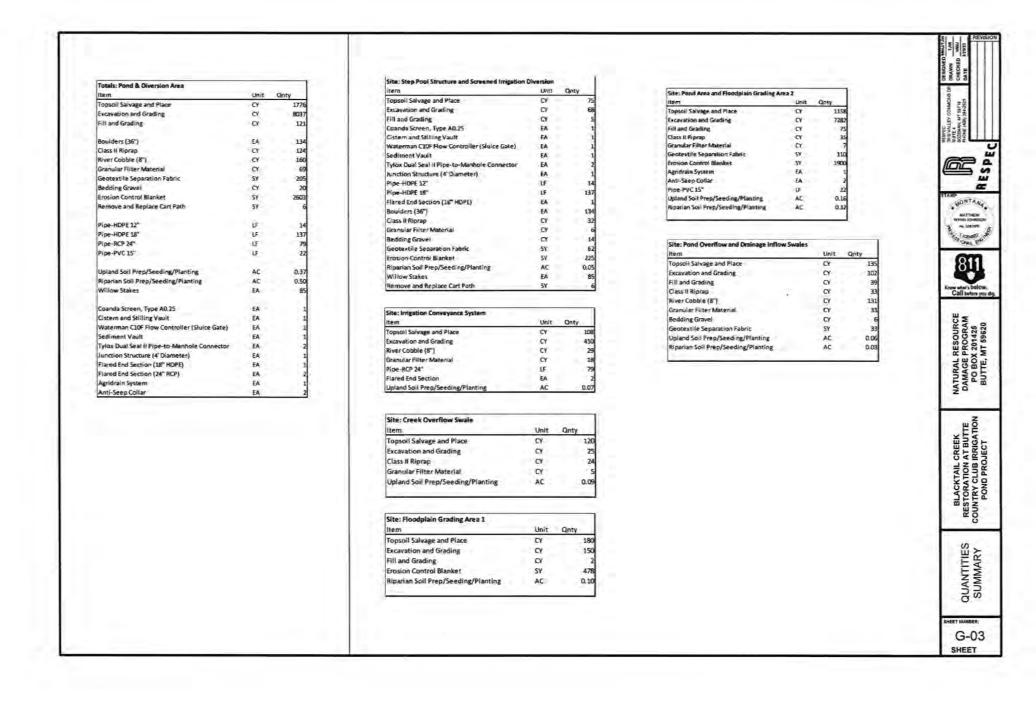


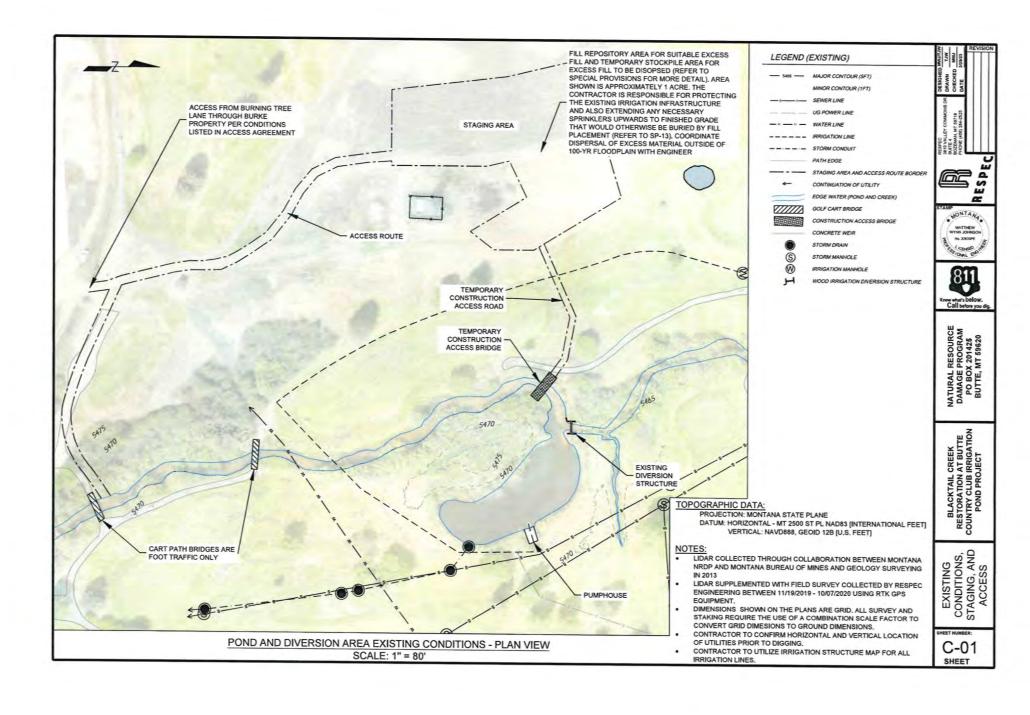
NATURAL RESOURCE DAMAGE PROGRAM PO BOX 201425 BUTTE, MT 59620

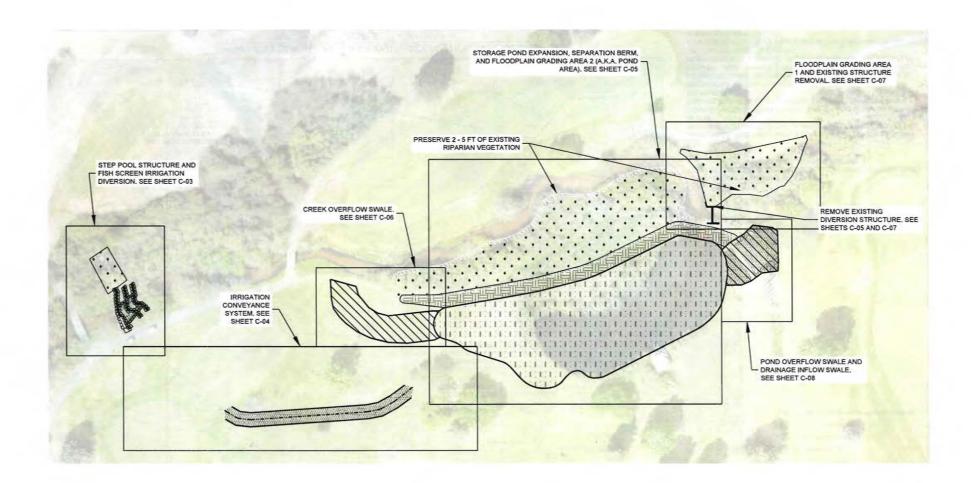
BLACKTAIL CREEK
RESTORATION AT BUTTE
COUNTRY CLUB IRRIGATION
POND PROJECT

GENERAL

G-02 SHEET







LETTERS OF SUPPORT

MONTANA FISH, WILDLIFE & PARKS

Future Fisheries Improvement Program

Appendix: FWP Statement

Project Title:					
Please describe the potential impact of the project, including the priorities of the Fisheries Division and the importance to Montana's anglers.					
Name of FWP Biologist	Date:				

Please attach to the FFIP application and materials and submit according to listed deadlines.



11 November 2024

Montana Fish, Wildlife & Parks Fisheries Division Michelle McGree - Future Fisheries Coordinator 1420 E. Sixth Ave. Helena, MT 59620-0701

RE: Letter of support for Blacktail Creek Restoration Project

Dear Future Fisheries Improvement Program Grants Review Panel,

I am writing to express the Clark Fork Coalition's support for NRDP's proposed project, "Blacktail Creek Restoration Project."

The Clark Fork Coalition (CFC) is a member-based nonprofit (501c3) river conservation organization founded in 1985 with a mission to protect and restore the 14-million-acre Clark Fork River watershed in western Montana. Our dedicated staff have implemented many restoration projects to reconnect tributaries and improve aquatic habitat in the Upper Clark Fork watershed since we initiated our restoration program in 2009.

Aquatic and riparian resources of Blacktail Creek have been injured by hazardous substances released from mining and mineral-processing operations near Butte and Anaconda. In 1983, the State of Montana (State) filed a lawsuit against the Atlantic Richfield Co. for injuries to the State's natural resources in the Upper Clark Fork River basin. The State settled this lawsuit which established the Upper Clark Fork River Basin (UCFRB) Restoration Fund. The UCFRB Restoration Funds are State of Montana funds administered by the Natural Resource Damage Program (NRDP) and must be used to restore, rehabilitate, replace, and/or acquire the equivalent of the injured natural resources as defined in NRDP's Upper Clark Fork River Basin Aquatic and Terrestrial Resources Restoration Plans.

These Restoration Plans prioritize fish passage, fish entrainment, and water quality, all of which will be addressed with this project. This project will be primarily funded by the UCFRB Restoration Fund; however, we support NRDP and other project partners seeking match for the project. We also support any refinements to the project scope or design that improve the cost-effectiveness or increase the resource benefits to Blacktail Creek.

CFC supports this project, and we look forward to working with NRDP and other project partners on this project and other projects in the Upper Clark Fork River basin.

Regards,

Brian C. Chaffin, Ph.D. Executive Director



November 5, 2024

Montana Fish, Wildlife & Parks Fisheries Division Michelle McGree - Future Fisheries Coordinator 1420 E. Sixth Ave. Helena, MT 59620-0701

RE: Letter of support for Blacktail Creek Restoration Project

Dear Review Panel,

I am writing to express Montana Trout Unlimited's (MTU) support for NRDPs proposed project, "Blacktail Creek Restoration Project."

Aquatic and riparian resources of Blacktail Creek have been injured by hazardous substances, released from mining and mineral-processing operations in the Butte and Anaconda areas. In 1983, the State of Montana (State) filed a lawsuit against the Atlantic Richfield Co., for injuries to the State's natural resources in the Upper Clark Fork River Basin (UCFRB). The State settled this lawsuit which established the UCFRB Restoration Fund. The UCFRB Restoration Fund are State funds, administered by the Natural Resource Damage Program (NRDP) and must be used to restore, rehabilitate, replace, or acquire the equivalent of the injured natural resources as defined in our UCFRB Aquatic and Terrestrial Resources Restoration Plans (Restoration Plans).

These Restoration Plans prioritize fish passage, fish entrainment, and water quality all of which will be addressed with this project. This project will be primarily funded by the UCFRB Restoration Fund; however, this fund is limited and in order to address additional priority projects in the UCFRB we are seeking match funding from our project partners. Because of the emphasis on fisheries issues, and that Trout Unlimited has identified this project and project area as a priority for years, MTU fully endorses the use of FFIP funds to complement UCFRB funding to get this important fishery and water quality work done.

Through implementation of this project, fish will have greater access to spawning habitat in the upper reaches of Blacktail Creek. Entrainment of fish into the Butte County Club irrigation system will also be eliminated. The improved access to spawning habitat and eliminated entrainment should improve fisheries in both Blacktail Creek and Silver Bow Creek. Silver Bow Creek has become a popular local fishery since remediation was implemented in the 1990's and trout returned to the creek about a decade ago. Westslope cutthroat trout from Blacktail Creek are one of the main sources of fish for Silver Bow Creek. Montana Fish Wildlife and Parks telemetry work completed in 2023 and 2024 suggested that nearly all westslope cutthroat trout in the upper reaches of Silver Bow Creek are using Blacktail Creek to spawn.

Founded in 1964, Montana Trout Unlimited is the only statewide grassroots organization dedicated solely to conserving, protecting, and restoring Montana's coldwater fisheries and their watersheds. On behalf of MTU's more than 5,000 members and supports in Montana, including local chapters that prize the upper Clark Fork River and its fisheries, we look forward to working with NRDP and other project partners on this project and other



projects in the Upper Clark Fork River Basin.

Sincerely,

David Brooks

Ol Del

Executive Director, Montana Trout Unlimited





1109 Main Street Deer Lodge, MT 59722 406-579-3762 wrcclark3@gmail.com

Montana Fish, Wildlife & Parks Fisheries Division Michelle McGree - Future Fisheries Coordinator 1420 E. Sixth Ave. Helena, MT 59620-0701

November 7, 2024

RE: Letter of support for Blacktail Creek Restoration Project

Dear Review Panel,

I am writing to express support for NRDPs proposed project, "Blacktail Creek Restoration Project."

Aquatic and riparian resources of Blacktail Creek have been injured by hazardous substances, released from mining and mineral-processing operations in the Butte and Anaconda areas. In 1983, the State of Montana (State) filed a lawsuit against the Atlantic Richfield Co., for injuries to the State's natural resources in the Upper Clark Fork River Basin (UCFRB). The State settled this lawsuit which established the UCFRB Restoration Fund. The UCFRB Restoration Fund are State funds, administered by the Natural Resource Damage Program (NRDP) and must be used to restore, rehabilitate, replace, or acquire the equivalent of the injured natural resources as defined in our UCFRB Aquatic and Terrestrial Resources Restoration Plans (Restoration Plans).

These Restoration Plans prioritize fish passage, fish entrainment, and water quality all of which will be addressed with this project. This project will be primarily funded by the UCFRB Restoration Fund; however, this fund is limited and in order to address additional priority projects in the UCFRB we are seeking match funding from our project partners.

Through implementation of this project, fish will have greater access to spawning habitat in the upper reaches of Blacktail Creek. Entrainment of fish into the Butte County Club irrigation system will also be eliminated. The improved access to spawning habitat and eliminated entrainment should improve fisheries in both Blacktail Creek and Silver Bow Creek. Silver Bow Creek has become a popular local fishery since remediation was implemented in the 1990's and trout returned to the creek about a decade ago. Westslope cutthroat trout from Blacktail Creek are one of the main sources of fish for Silver Bow Creek. Montana Fish Wildlife and Parks telemetry work completed in 2023 and 2024 suggested that nearly all westslope cutthroat trout in the upper reaches of Silver Bow Creek are using Blacktail Creek to spawn.

The Watershed Restoration Coalition is supportive of this project. The Watershed Restoration Coalition of the Upper Clark Fork Basin is a nonprofit organization serving the irrigators and landowners in the Deer Lodge Valley who rely on the Upper Clark Fork River and its tributaries for agriculture, recreation, and other livelihoods. We look forward to working with NRDP and project partners on this and other projects in the Upper Clark Fork River Basin.

Watershed
Restoration
Coalition
Consciving the Upper Stark Fork

1109 Main Street
Deer Lodge, MT 59722
406-579-3762
wrcclark3@gmail.com

Ted Dodge

Executive Director

Watershed Restoration Coalition

BUTTE COUNTRY CLUB

3400 Elizabeth Warren Road Butte, Montana 59701 Phone: 406.494.2394 • Fax: 406.494.6116

November 12, 2024

Montana Fish, Wildlife & Parks
Fisheries Division
Michelle McGree - Future Fisheries Coordinator
1420 E. Sixth Ave.
Helena, MT 59620-0701

RE: Letter of support for the Blacktail Creek Restoration Project

Dear Review Panel,

On behalf of the Butte Country Club and its Board of Directors, I present this letter to express support for the *Blacktail Creek Restoration Project*, as proposed and submitted by the Montana Natural Resource Damage Program (NRDP).

In 1983, the State of Montana (State) filed a lawsuit against the Atlantic Richfield Co., for injuries to the State's natural resources in the Upper Clark Fork River Basin. The State settled this lawsuit, which established the Upper Clark Fork River Basin Restoration Fund, proceeds from which must be used to restore, rehabilitate, replace, or acquire the equivalent of the injured natural resources.

The aquatic and riparian resources of Blacktail Creek have been significantly injured by hazardous substances, released from mining and mineral-processing operations in the Butte and Anaconda areas. Hence, Blacktail Creek, which runs through the full length of our Butte Country Club property, is one of the highest-ranked, priority tributaries to the Upper Clark Fork River, and where restoration projects can have the greatest impact on improving fisheries and fish habitat. The NRDP's proposed *Project* would address several concerns, including fish passage, fish entrainment, and water quality.

After years of project planning, engineering design and securing necessary permits, including costly floodplain and water right change authorizations, the *Project* bid documents were finally ready in September. However, by 2024, the construction cost estimate now exceeded (primarily due to inflation) the amount of funding NRDP had budgeted from the UCFRB Restoration Fund. Thus, the need to seek matching funds and the NRDP's request for help from the Future Fisheries Fund.

The NRDP has already made significant investments in the *Project*. The Butte Country Club has also invested countless hours to help get through the design and permitting processes, and we remain committed to provide in-kind match for implementation, O&M, and monitoring. Thank you for the opportunity to present our support for this *Project* and Future Fisheries funding. We urge your positive consideration of the NRDP proposal.

General Manager