**APPLICANT INFORMATION** 



I.

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



A.	Applicant Name:			
	Mailing Address:			
	City:	State:	Zip: _	
	Telephone:	E-mail:		
В.	Contact Person (if different than applicant):			
	Address:			
	City:	_		
	Telephone:	E-mail:		
C.	Landowner and/or Lessee Name (if different than applicant):			
	Mailing Address:			
	City:	State:	Zip: _	
	Telephone:	E-mail:		
PR	OJECT INFORMATION			
A.	Project Name:			
	River, stream, or lake:			
	Location: Township:	Range:		Section:
	Latitude:	Longitude:	W	(ithin project (decimal degrees)
	County:			

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

III.

	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?
٧.	PR	OJECT BENEFITS (attach additional information to end of application):
	A.	What species of fish will benefit from this project?
	B.	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.	Will the project increase public fishing opportunity for wild fish and, if so, how? Is public fishing allowed onsite? If not, describe how the public would access the project benefits.
E.	Aside from angling, what local or large-scale public benefits will be realized from this project?
F.	Will the project interfere with water or property rights of adjacent landowners? (explain):
	Will the project result in the development of commercial represtigned use on the site (including paid
G.	Will the project result in the development of commercial recreational use on the site (including paid access)? Explain:
H.	Is this project associated with the reclamation of past mining activity?
Each ap	oproved project applicant must enter into a written agreement with Montana Fish, Wildlife &
	pecifying terms and duration of the project. The applicant must obtain all applicable permits project construction. A competitive bid process must be followed when using State funds.
V. AL	JTHORIZING STATEMENT
ac	we) hereby declare that the information and all statements to this application are true, complete, and curate to the best of my (our) knowledge and that the project or activity complies with rules of the
Fu	ture Fisheries Improvement Program.
Applicar	nt Signature: <u>Audra Bell</u> Date:
	tal: Applications must be signed and received on or before November 15 and May 15 to be lered for the subsequent funding period. Late or incomplete applications will be rejected.
Mail to:	FWP Future Fisheries Email: Future Fisheries Coordinator

Mail FWPFFIP@mt.gov Fish Habitat Bureau (electronic submissions must be signed)
For files over 10MB, use <a href="https://transfer.mt.gov">https://transfer.mt.gov</a> and send PO Box 200701 Helena, MT 59620-0701 to mmcgree@mt.gov

D. Will the project increase public fishing opportunity for wild fish and, if so, how? Is public fishing allowed onsite? If not, describe how the public would access the project benefits.

Granite Creek bridge allows opportunity for public to access Granite Creek and Alder Gulch. Additionally, the project runs through BLM property in two locations. With the limited access through the bridge and BLM property, many landowners allow for access with permission.

E. Aside from angling, what local or large-scale public benefits will be realized from this project?

This project is intended to address localized impairments that have raised concerns about public health. RVCD completed soils analysis in the spring of 2022 (Attachment C.) The results are attached with recommendations to over excavate within the channel and place uncontaminated materials in the stream and floodplain. While the project primarily falls on private lands, the landowner has committed to landscape level restoration actions to return the ecosystem to natural state.

RVCD hopes to continue education on this project and other similar projects to increase buy in from

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

No, this project will have no impact on water & property rights for adjacent landowners.

G. Will the project result in the development of commercial recreational use on the site (including paid access)? Explain:

No, the project will not result in the development of commercial recreational use.

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

Yes, historically, the Alder Gulch floodplain was turned over by bucket dredge to mine for placer.

The mining tailings has drastically impacted the function and connectivity between Alder Gulch and its tributaries. BVCD completed soil analysis to address issues with beauty metals within the project.

Each approved project applicant must enter into a written agreement with Montana Fish, Wildlife & Parks specifying terms and duration of the project. The applicant must obtain all applicable permits prior to project construction. A competitive bid process must be followed when using State funds.

#### V. 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:

Submittal: Applications must be signed and received on or before November 15 and May 15 to be considered for the subsequent funding period. Late or incomplete applications will be rejected.

Mail to: FWP Future Fisheries Fish Habitat Bureau PO Box 200701

Helena, MT 59620-0701

Email: Future Fisheries Coordinator

veni Channia Date:

FWPFFIP@mt.gov

(electronic submissions must be signed)

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

		PROJECT COS		nes	must be completed	OI L	he application will be	retu	CONTR	IDII	TIONS	
		PROJECT COS	13						CONTR	IDU		
WORK ITEMS (Itemize by	NUMBER OF	UNIT				F	UTURE FISHERIES		ATCH (Cash	(	OTHER (Not part of this	
Category)	UNITS	DESCRIPTION*	COST/UNIT		TOTAL COST		REQUEST	or	Services)**		application)	TOTAL
Personnel***										l		
Survey				\$	-							\$ -
Design				\$	-							\$ -
Engineering				\$	-				21,500.00			\$ 21,500.00
Permitting				\$	-							\$ -
Oversight				\$	-							\$ -
Maintenance				\$	-							\$ -
			Sub-Total	\$	-	\$	-	\$	21,500.00	\$	-	\$ 21,500.00
<u>Travel</u>				•						T		
Mileage				\$	-							\$ -
Per diem				\$	-							\$ -
			Sub-Total	\$	-	\$	-	\$	-	\$	-	\$ -
<b>Construction Ma</b>	terials****											
Site												
Revegetation	1	1	\$36,500.00	\$	36,500.00		6,500.00		30,000.00			\$ 36,500.00
imported												
streambed												
materials	1023		\$115.00	-	117,645.00				19,786.40			\$ 19,786.40
topsoil	381		\$86.00		32,766.00		32,766.00					\$ 32,766.00
facine	1861	LF	\$30.00	\$	55,830.00		55,830.00					\$ 55,830.00
course wood &												
willow	1861	LF	\$28.00		52,108.00		4,904.00					\$ 4,904.00
				\$	-							\$ -
				\$	-							\$ -
				\$	-							\$ -
			Sub-Total	\$	294,849.00	\$	100,000.00	\$	49,786.40	\$	-	\$ 149,786.40
<b>Equipment</b> , Lab	or, and Mobiliz	ation_										
Mob/demob	1	LS	\$55,000.00	\$	55,000.00				55,000.00			\$ 55,000.00
survey/staking	1	LS	\$24,500.00	\$	24,500.00				24,500.00			\$ 24,500.00
soil erosion/												
pollution control	1	LS	\$38,500.00	\$	38,500.00				38,500.00			\$ 38,500.00
dewatering	1	Ls	\$47,161.00	\$	47,161.00				47,161.00			\$ 47,161.00
channel												
construction	945	LF	\$205.00	\$	193,725.00				193,725.00			\$ 193,725.00
				\$	-							\$ -
				\$	-							\$ -
				\$	-							\$ -

			\$ -				\$ -
			\$ -				\$
			\$ -				\$ -
			\$ -				\$ -
		Sub-Total	\$ 358,886.00	\$ -	\$ 358,886.00	\$ -	\$ 358,886.00
	_	TOTALS	\$ 653,735.00	\$ 100,000.00	\$ 430,172.40	\$ -	\$ 530,172.40

#### 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.

Additional details: The budget is aligned with the second lowest bid. RVCD has not determined whether we will be going out to bid a second time for Schedule B. Additional fundraising efforts will need to occur if RVCD intends to rebid the project. FF funding will primarily be utilized for material acquisition and transport.

APPLICATION	MA <sup>-</sup>	TCHING CC	N	TRIBUTIONS	)		
(do not include requested fund	s or c	ontributions not a	asso	ociated with the app	olica	ntion)	
CONTRIBUTOR		IN-KIND		CASH		TOTAL	Secured? (Y/N)
DNRC RDG (Construction oversight and remaining for AG)	\$	-	\$	158,172.40	\$	158,172.40	Υ
DEQ 319 (AG Implementation)	\$	-	\$	272,000.00	\$	272,000.00	Y, Letter received
	\$	-	\$	-	\$	-	
	\$	-	\$	-	\$	-	
	\$	-	\$	-	\$	-	
	\$	-	\$	-	\$	-	
	\$	-	\$	-	\$	-	
	\$	-	\$	-	\$	-	
TOTALS	\$	-	\$	430,172.40	\$	430,172.40	

OTHE	R CO	NTRIBUT	101	NS		
(contributions	not asso	ciated with th	е ар	plication)		
CONTRIBUTOR	IN	-KIND		CASH	TOTAL	Secured? (Y/N)
MDT	\$	-	\$	3,000,000.00	\$ 3,000,000.00	у
DNRC RDG (Granite Creek Implementation)	\$	-	\$	190,508.90	\$ 190,508.90	у
DNRC RDGP (Planning grant)	\$	-	\$	40,000.00	\$ 40,000.00	

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

<sup>\*\*</sup>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.

<sup>\*\*\*</sup>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.

<sup>\*\*\*\*</sup>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.

ADDL INFO ONLINE

BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS

010-2024

	\$ -	\$	-	\$ -	
	\$ -	\$	-	\$ -	
	\$ -	\$	-	\$ -	
	\$ -	\$	-	\$ -	
	\$ -	\$	-	\$ -	
TOTALS	\$ -	\$ 3	3,230,508.90	\$ 3,230,508.90	

Pages 3 of 3 (Revised 11/16/2023)

Granite Creek Stream Restoration Project and Alder Gulch Stream Restoration (#8506533)

Owner: Ruby Valley Conservation District Solicitor: Great West Engineering

06/27/2023 10:00 AM MDT

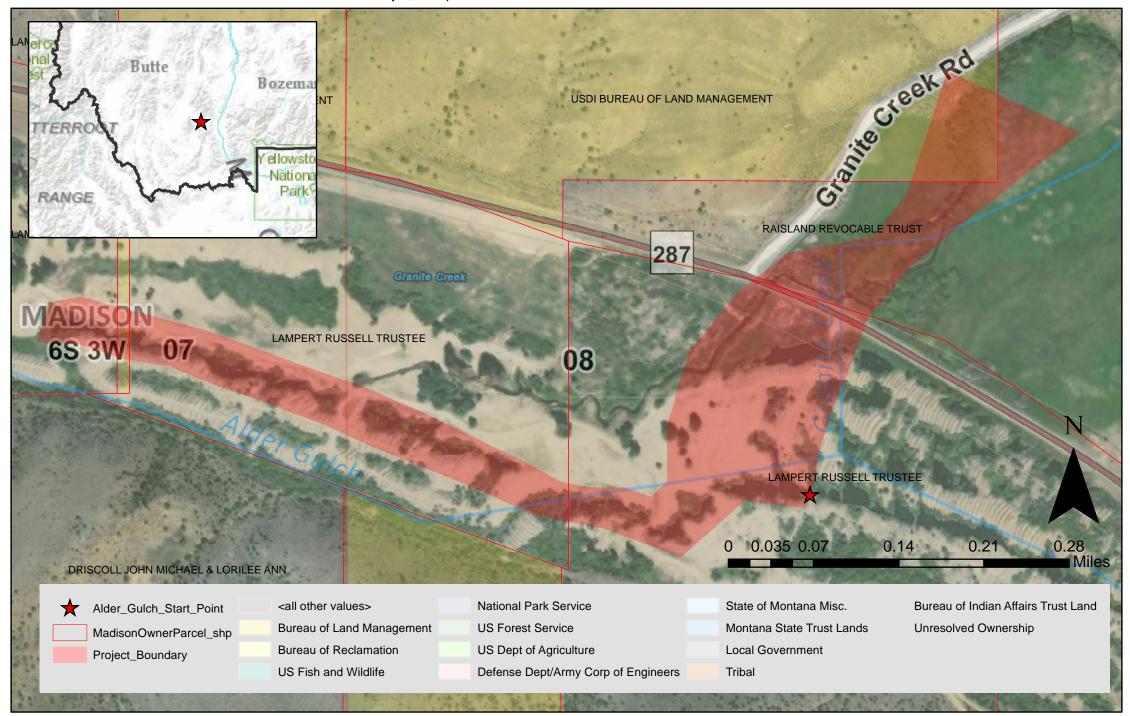
				Enginee	r Estimate	Olympus Tech	nical Services	Missouri Riv	er Contractors		pal Construction, nc.	Michel	ls Marine
Item Code	Item Description	U of M	Quantity	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
Schedule A -	<b>Granite Creek Stream Restoration</b>												
	Mobilization	LS	1	\$27,500.00	\$27,500.00	\$18,800.00	\$18,800.00	\$60,000.00	\$60,000.00	\$183,000.00	\$183,000.00	\$204,767.44	\$204,767.44
	Construction Survey & Staking	LS	1	\$8,000.00	\$8,000.00	\$11,000.00	\$11,000.00	\$19,900.00	\$19,900.00	\$20,000.00	\$20,000.00	\$59,922.71	\$59,922.71
103	Soil Erosion & Pollution Control	LS	1	\$9,000.00	\$9,000.00	\$7,000.00	\$7,000.00	\$28,500.00	\$28,500.00	\$13,000.00	\$13,000.00	\$6,402.65	\$6,402.65
	Dewatering	LS	1	\$10,000.00	\$10,000.00	\$11,500.00	\$11,500.00	\$75,000.00	\$75,000.00	\$66,000.00	\$66,000.00	\$141,030.10	\$141,030.10
105	Channel Construction	LF	1145	\$45.00	\$51,525.00	\$49.10	\$56,219.50	\$75.00	\$85,875.00	\$197.00	\$225,565.00	\$83.31	\$95,389.95
106	Overflow Channel Construction	LS	1	\$4,500.00	\$4,500.00	\$3,100.00	\$3,100.00	\$25,650.00	\$25,650.00	\$53,000.00	\$53,000.00	\$66,655.18	\$66,655.18
107	Roadway Erosion Construction	LS	1	\$6,000.00	\$6,000.00	\$17,000.00	\$17,000.00	\$43,800.00	\$43,800.00	\$35,000.00	\$35,000.00	\$188,310.36	\$188,310.36
	Site Revegetation	LS	1	\$13,000.00	\$13,000.00	\$3,600.00	\$3,600.00	\$38,750.00	\$38,750.00	\$45,000.00	\$45,000.00	\$95,920.00	\$95,920.00
	Imported Streambed Material	CY	686	\$25.00	\$17,150.00	\$33.00	\$22,638.00	\$115.00	\$78,890.00	\$80.00	\$54,880.00	\$172.41	\$118,273.26
110	Imported Topsoil	CY	596	\$65.00	\$38,740.00	\$45.00	\$26,820.00	\$86.00	\$51,256.00	\$67.00	\$39,932.00	\$116.70	\$69,553.20
111	Fascine	LF	2083	\$15.00	\$31,245.00	\$2.80	\$5,832.40	\$30.00	\$62,490.00	\$27.00	\$56,241.00	\$76.57	\$159,495.31
112	Coarse Wood & Willow Cuttings	LF	2333	\$25.00	\$58,325.00	\$3.00	\$6,999.00	\$28.00	\$65,324.00	\$33.00	\$76,989.00	\$54.22	\$126,495.26
Schedule A -	Granite Creek Stream Restoration				\$274,985.00		\$190,508.90		\$635,435.00		\$868,607.00		\$1,332,215.42
Schedule B -	Alder Gulch Stream Restoration												
201	Mobilization	LS	1	\$27,200.00	\$27,200.00	\$38,600.00	\$38,600.00	\$55,000.00	\$55,000.00	\$53,000.00	\$53,000.00	\$88,873.55	\$88,873.55
202	Construction Survey & Staking	LS	1	\$6,000.00	\$6,000.00	\$11,000.00	\$11,000.00	\$24,500.00	\$24,500.00	\$13,000.00	\$13,000.00	\$82,459.94	\$82,459.94
203	Soil Erosion & Pollution Control	LS	1	\$7,000.00	\$7,000.00	\$9,500.00	\$9,500.00	\$38,500.00	\$38,500.00	\$7,000.00	\$7,000.00	\$3,612.41	\$3,612.41
204	Dewatering	LS	1	\$8,000.00	\$8,000.00	\$19,900.00	\$19,900.00	\$47,161.00	\$47,161.00	\$33,000.00	\$33,000.00	\$104,258.94	\$104,258.94
205	Channel Construction	LF	945	\$95.00	\$89,775.00	\$252.10	\$238,234.50	\$205.00	\$193,725.00	\$180.00	\$170,100.00	\$1,205.08	\$1,138,800.60
206	Site Revegetation	LS	1	\$9,000.00	\$9,000.00	\$7,800.00	\$7,800.00	\$36,500.00	\$36,500.00	\$30,000.00	\$30,000.00	\$177,747.14	\$177,747.14
207	Imported Streambed Material	CY	1023	\$25.00	\$25,575.00	\$33.00	\$33,759.00	\$115.00	\$117,645.00	\$80.00	\$81,840.00	\$101.37	\$103,701.51
208	Imported Topsoil	CY	381	\$65.00	\$24,765.00	\$45.00	\$17,145.00	\$86.00	\$32,766.00	\$67.00	\$25,527.00	\$116.69	\$44,458.89
	Fascine	LF	1861	\$15.00	\$27,915.00	\$2.80	\$5,210.80	\$30.00	\$55,830.00	\$27.00	\$50,247.00	\$60.29	\$112,199.69
210	Coarse Wood & Willow Cuttings	LF	1861	\$25.00	\$46,525.00	\$3.00	\$5,583.00	\$28.00	\$52,108.00	\$33.00	\$61,413.00	\$43.74	\$81,400.14
Schedule B -	Alder Gulch Stream Restoration				\$271,755.00		\$386,732.30		\$653,735.00		\$525,127.00		\$1,937,512.81
<b>Total Com</b> l	bined Bid:				\$546,740.00		\$577,241.20		\$1,289,170.00		\$1,393,734.00		\$3,269,728.23

I, Jeremiah Theys, PE, hereby certify that this tabulation of bids is a true representation of the bids received on June 27, 2023.



# Alder Gulch and Granite Creek Upper Alder restoration roject Map 45.323024, -112.001245

# Landowners: Granite Creek Ranch and Raisland Revocable \*\* Old cadastral layer, Lampert Russell land is now a mix of Raisland and Granite Creek Ranch\*\*



Ruby Valley Conservation District's Granite Creek Restoration Project Pictures

## Upper Alder Gulch Restoration Project

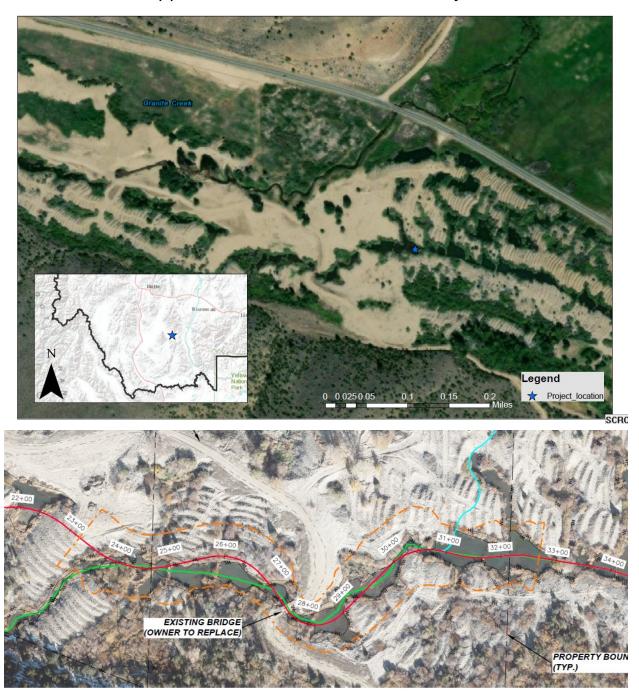


Image 1 & 2 . Aerial View of Alder Gulch Restoration and project bounds.





Image 3 & 4 Historical Images of Alder Gulch



Image 5. Upstream of Confluence; Start of Project Reach.



Image 6. Near the proposed confluence location, Looking Upstream.



Image 7. Looking downstream from proposed confluence location.



Image 8. Current confluence of Granite Creek and Alder Gulch. The culverts were installed for road stabilization for construction equipment.



Image 9. Example of current channel conditions.



Image 10. Approximately ST 23 + 50. Location where new excavated channel will be installed.



Image 11. Approximately ST 23 +50 looking upstream. Notice surface water filtering through to gravel to return on the other side of the tailings pile.



Image 12. Tailing Piles being worked for the Granite Creek Project.

				P	roject Sch	edule						
Project Elements			2023				2024			7	025	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Project Planning												
Project Permitting												
Schedule A (DNRC Funded)												
Schedule B (DNRC & DEQ.												
RVCD SEEKING FF FUNDS)												
Fish Barrier (DNRC Funded)												
Private Project (Privately												
Funded)												



November 14, 2023

Montana Trout Unlimited PO Box 7186 Missoula, MT. 59807

Future Fisheries Improvement Program FWP Fisheries Division P.O. Box 200701 Helena, MT 59620

#### **RE: Support for Ruby Valley Conservation District**

Dear Future Fisheries Improvement Program Citizen Review Panel,

Montana Trout Unlimited is pleased to support the Ruby Valley Conservation District's (RVCD) Future Fisheries Improvement Plan proposal to improve habitat and stream function on the long-beleaguered Alder Gulch near Virginia City. Impacts from legacy mining have degraded Alder Gulch, its tributaries, including Granite Creek, and the fishery for over a century and a half.

With more than 5,000 members and friends, including local membership in the Chuck Robbins Chapter of Trout Unlimited, Montana Trout Unlimited (MTU) is the only statewide organization whose primary focus is on fisheries management, impacts, and recovery. MTU's mission is to conserve, protect, and restore Montana's world-class fisheries and their watersheds. This project, brought forward by our longtime partners, the RVCD, fulfills our mission.

The Alder Gulch Restoration Project has several beneficial attributes to improve this headwater tributary and downstream to the Ruby River. The area was heavily placer mined in the gold rush era of the mid-to late-19<sup>th</sup> century, which resulted in an accumulation of heavy metals and disrupted stream function to the point that the stream is unable to repair itself without significant restoration. Removing these pollutants and importing clean materials is a key component of this restoration. The project aims to restore fluvial processes by improving connectivity between current surface and subsurface flows, restoring the Granite Creek confluence with Alder Gulch, allowing for adequate sediment movement and deposition, and increasing floodplain functions and water storage in fluvial aquifers. These enhancements will improve water quality, fish passage, and riparian and instream habitat.

Please contact me with any questions you may have about our support.

Chris Edgington

Oh Eggle

Jefferson Watershed Project Manager Montana Trout Unlimited

chris@montanatu.org

# GRANITE CREEK RANCH

P.O. Box 143 Virginia City, MT 59755 1680 NE 135<sup>th</sup> Street Miami, FL 33181 Office: (305) 892-8699 • Cell: (305) 753-3919

August 11, 2021

#### Via U.S. Mail:

5

Department Natural Resource and Conservation Conservation and Resource Development Division P.O. Box 201601 Helena, MT 59620-1601

Re: Letter of Commitment for the RDGP Application

Dear Grant Selection Panel,

I am writing to express Granite Creek Ranch's (GCR) support for the Ruby Valley Conservation District's RDGP grant application to develop the Granite Creek Realignment Design Project in Madison County.

Since 2017, We have supported Ruby Valley Conservation District's (RVCD) efforts to plan and finance the Granite Creek Reclamation and Realignment Project. In June 2021, the construction and reclamation work were funded through House Bill 14. The final design documents are the final necessity of this long-awaited project. RVCD is requesting additional financial support for completing final plans through the RDGP program. Granite Creek Ranch will provide the funding for all tasks outlined in Task 3 of the proposal submitted by RVCD to the RDGP Grant Program.

Granite Creek Ranch Match Contribution:

- Task 3: Lower Alder Gulch Restoration
  - o Task 3.1 Sediment Removal Areas
  - Task 3.2 Wetland Delineation
  - Task 3.3 Site Survey and Geomorphic Assessment
  - o Task 3.4 30% Design
  - Task 3.5 Final Design

GCR is excited to support this proposal from RVCD by leveraging \$22,900 for the continuation of this project. We will work collaboratively with RVCD to ensure our goals are aligned with the goals of the Granite Creek Reclamation and Realignment Project. Granite Creek Ranch stands ready and is committed to finding a long-term solution to natural resource concerns within Alder Gulch. You can count on us.

Sincerely,

Robert C. Bowling, Esq.

Managing Partner

#### GRANITE CREEK RESTORATION AND REALIGNMENT PROJECT

#### LANDOWNER AGREEMENT

This agreement dated February 16th, 2022 between the Ruby Valley Conservation District (RVCD) and Central City LLC (Robert Bowling). Central City LLC is entered to authorize repairs on the Granite Creek Reclamation and Realignment Project along Granite Creek and Alder Gulch. This restoration and reclamation project is in Township 06 S, Range 03 W, Section 08. Planning work performed will be as outlined in Attachment A: Scope of Work in the Montana Department of Natural Resource and Conservation (DNRC) Contract No. RITP-22-0178 between the DNRC and RVCD. Future restoration work will be funded through the DNRC Contract No: RIT-22-8901 following the final design plan resulting from Attachment B: Request for Bids Narrative.

This project is intended to reconnect Granite Creek to the Alder Gulch channel to improve the sediment transport through this system. Additionally, RVCD is collaborating with the Montana Department of Transportation to realign Granite Creek with a new bridge along Highway 287 to improve the safety of vehicle traffic through this corridor. The landowner agrees to protect and maintain the investment of this project for a minimum of 10 years. Assisting landowners with infrastructure on their property to manage streambank stabilization, sediment transport and floodplain connectivity contribute to the goals of the Reclamation and Development program. This agreement will expire on February 16th, 2032.

Notwithstanding the foregoing, it shall not be the landowner's responsibility to repair or replace project improvements should they be damaged, changed or destroyed by circumstances outside of the landowner's control; such as, but not limited to, natural means and damage by other individuals not under the control and supervision of the landowner. The landowner guarantees ownership of the above-described land and warrants that there are no outstanding rights that will interfere with this cooperative agreement. Further, if the land ownership is transferred, this agreement will remain valid for the period of this agreement.

This agreement may be terminated in writing by either party by providing thirty (30) days advance notice. If terminated by the landowner or the restoration site is degraded due to purposeful activities of the private landowner, the private property owner agrees at the property owner's sole discretion, to either

- 1. Reimburse Ruby Valley Conservation District for the cost of repair, or,
- 2. Reimburse Ruby Valley Conservation District for the "remaining value" of the project. The "remaining value" is defined as the original cost of the material and labor paid for by Ruby Valley Conservation District for the project construction only, less the loss of value of grazing to the landowner and any material or labor that the property owner provides. This net value of the project will then be divided by the term (20 years). If, for example, there are ten (10) years remaining, then 1/2 of the net value will be the "remaining value".

Ruby Valley Conservation District does not assume jurisdiction over private property as a result of this agreement. The private property owner retains all normal property rights including the right to control trespass. The landowner agrees to allow RVCD, its employees, agents and contractors access to the site for purposes contemplated in this Agreement. By entering into this agreement the landowner is not required to provide public access to the restoration project area, above and beyond any existing legal requirements.

Gary Giem

**RVCD Chairman** 

Robert Bowling

Central City LLC

#### GRANITE CREEK RESTORATION AND REALIGNMENT PROJECT

#### LANDOWNER AGREEMENT

This agreement dated March 2nd, 2022 between the Ruby Valley Conservation District (RVCD) and Raisland Revocable LLC, (Barbra Raisland). Raisland Revocable LLC is entered to authorize repairs on the Granite Creek Reclamation and Realignment Project along Granite Creek and Alder Gulch. This restoration and reclamation project is in Township 06 S, Range 03 W, Section 08. Planning work performed will be as outlined in Attachment A: Scope of Services provided by Great West Engineering and funded through the Montana Department of Natural Resource and Conservation (DNRC) Contract No. RITP-22-0178 between the DNRC and RVCD. Future restoration work will be funded through the DNRC Contract No: RIT-22-8901 following two design plans: one dated on January 10th, 2020 (Attachment B) and a new alignment derived from planning efforts outlined in Attachment A.

This project is intended to reconnect Granite Creek to the Alder Gulch channel to improve the sediment transport through this system. Additionally, RVCD is collaborating with the Montana Department of Transportation to realign Granite Creek with a new bridge along Highway 287 to improve the safety of vehicle traffic through this corridor. The landowner agrees to protect and maintain the investment of this project for a minimum of 20 years. Assisting landowners with infrastructure on their property to manage streambank stabilization, sediment transport and floodplain connectivity contribute to the goals of the Reclamation and Development program. This agreement will expire on March 2nd, 2042.

Notwithstanding the foregoing, it shall not be the landowner's responsibility to repair or replace project improvements should they be damaged, changed or destroyed by circumstances outside of the landowner's control; such as, but not limited to, natural means and damage by other individuals not under the control and supervision of the landowner. The landowner guarantees ownership of the above-described land and warrants that there are no outstanding rights that will interfere with this cooperative agreement. Further, if the land ownership is transferred, this agreement will remain valid for the period of this agreement.

This agreement may be terminated in writing by either party by providing thirty (30) days advance notice. If terminated by the landowner or the restoration site is degraded due to purposeful activities of the private landowner, the private property owner agrees at the property owner's sole discretion, to either

- 1. Reimburse Ruby Valley Conservation District for the cost of repair, or,
- 2. Reimburse Ruby Valley Conservation District for the "remaining value" of the project. The "remaining value" is defined as the original cost of the material and labor paid for by Ruby Valley Conservation District for the project construction only, less the loss of value of grazing to the landowner and any material or labor that the property owner provides. This net value of the project will then be divided by the term (20 years). If, for example, there are ten (10) years remaining, then ½ of the net value will be the "remaining value".

Ruby Valley Conservation District does not assume jurisdiction over private property as a result of this agreement. The private property owner retains all normal property rights including the right to control trespass. The landowner agrees to allow RVCD, its employees, agents and contractors access to the site for purposes contemplated in this Agreement. By entering into this agreement the landowner is not required to provide public access to the restoration project area, above and beyond any existing legal requirements.

Gary Giem

By:

**RVCD** Chairman

Barbra Raisland

Private Landowner

Date

<del>/////</del>

FWP.MT.GOV



THE **OUTSIDE** IS IN US ALL.

Montana Fish, Wildlife & Parks Region 3 Headquarters 1400 South 19<sup>th</sup> Street Bozeman, MT 59718

November 15, 2023

Montana Fish, Wildlife & Parks
Future Fisheries Improvement Program
1420 E. Sixth Ave.
PO Box 200701
Helena, MT 59620-0701

Dear Future Fisheries Improvement (FFIP) panel,

Montana Fish, Wildlife & Parks (FWP) strongly supports the Ruby Valley Conservation District FFIP application to improve the Granite Creek Highway 287 crossing in a manner that improves channel function, prevents metals contamination, and protects upstream native Westslope cutthroat trout.

Matt Jaeger has been to the Granite Creek bridge site often the past few years and FWP has issued several Stream Protection Act permits to provide short-term, "band-aid" solutions to alleviate aggradation and stream channel changes that have degraded aquatic habitat, threaten the bridge, and cause road safety issues. These problems are ultimately the result of downstream dredge piles that have severed the historic confluence of Granite and Alder Gulch creeks. As part of a stakeholder group convened to assess and implement long-term solutions, FWP is strongly supportive of the Ruby Valley Conservation District and Watershed Council proposal to improve the safety of Hwy 287 at Granite Creek and its confluence with Alder Creek. Specifically, the proposed approach will maximize aquatic and riparian habitat benefits by improving sediment transport and floodplain connectivity. This approach will provide direct fisheries connectivity between Granite and Alder Gulch creeks in addition to significantly improving spawning, rearing, and adult trout habitat. Because the project occurs at a road crossing there will be direct public access to the fishery that will benefit from proposed project. The larger project also anticipates and ameliorates potential adverse effects of improved connectivity by constructing a fish barrier in the upper reaches of Granite Creek to protect a native Westslope cutthroat trout population that is presently being replaced by brook trout.

FWP is committed to ensuring a successful outcome to this problem and believes the aforementioned proposal is an essential part of achieving one. Please don't hesitate to contact Matt Jaeger (mattjaeger@mt.gov) if you have further questions. Thank you for the opportunity to comment on the Granite Creek FFIP project and your continuing dedication to restoring and conserving Montana resources.

Sincerely,

Warren Hansen

Acting Region 3 Supervisor

# PROJECT LOCATION

## **RUBY VALLEY CONSERVATION DISTRICT UPPER ALDER GULCH**

# **RESTORATION** PERMITTING PLANS

SECTION 8, TOWNSHIP 6 SOUTH, AND RANGE 3 WEST LATITUDE: 45.323106\* NORTH, LONGITUDE: 112.001881\* WEST

# GRANITE CREEK PROJECT LOCATION

NOT TO SCALE

#### SHEET INDEX

DATE: 11/7/2022

COVER LEGEND AND GENERAL NOTES EXISTING SITE MAP ALDER GULCH PLAN & PROFILE TYPICAL CHANNEL DETAILS ALDER GULCH CROSS SECTIONS

# CRUBY VALLEY CONSERVATION DISTRICT

PLANS PREPARED FOR: RUBY VALLEY CONSERVATION DISTRICT

APPROVED BY:

JEREMIAH THEYS, P.E.



QA/QC BY:

JUSTIN EVERTZ, P.E. GREAT WEST ENGINEERIN

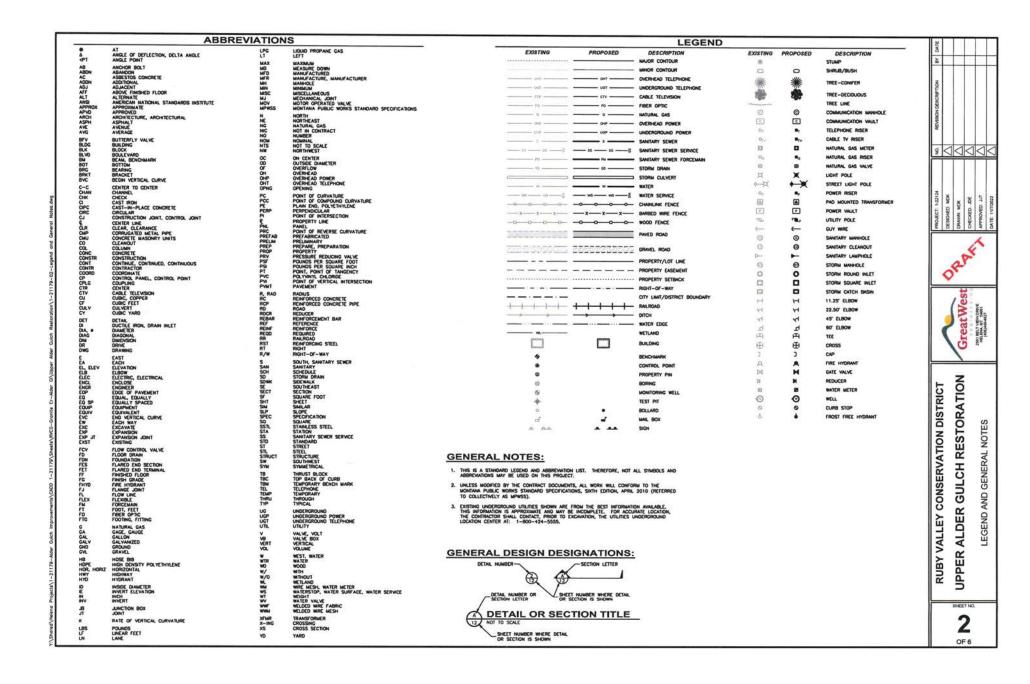


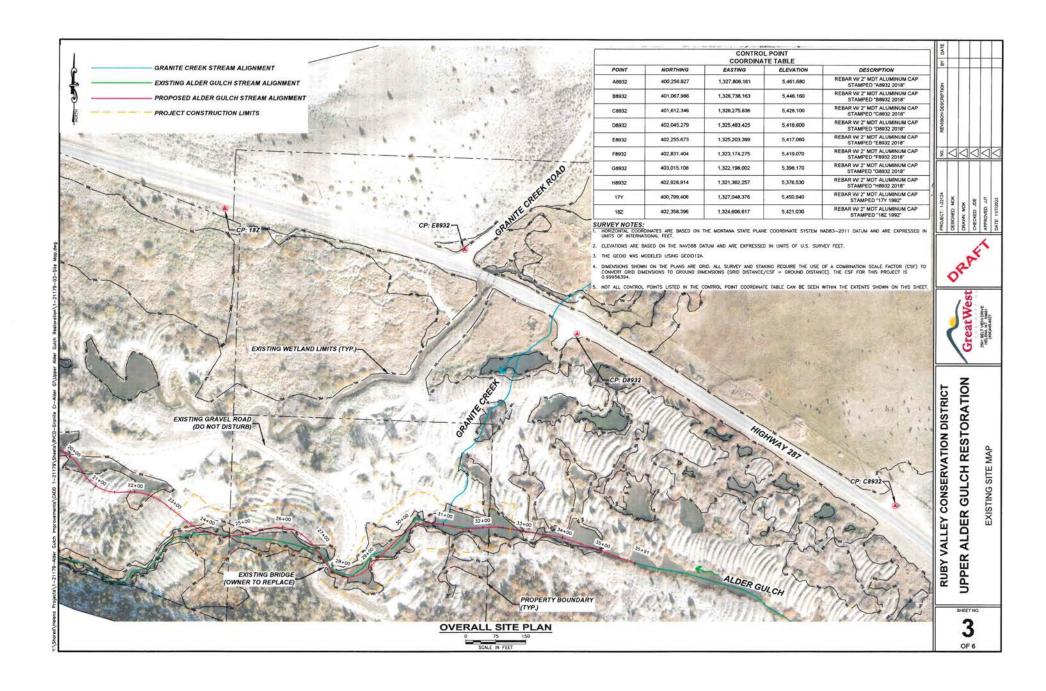
PLANS PREPARED BY:

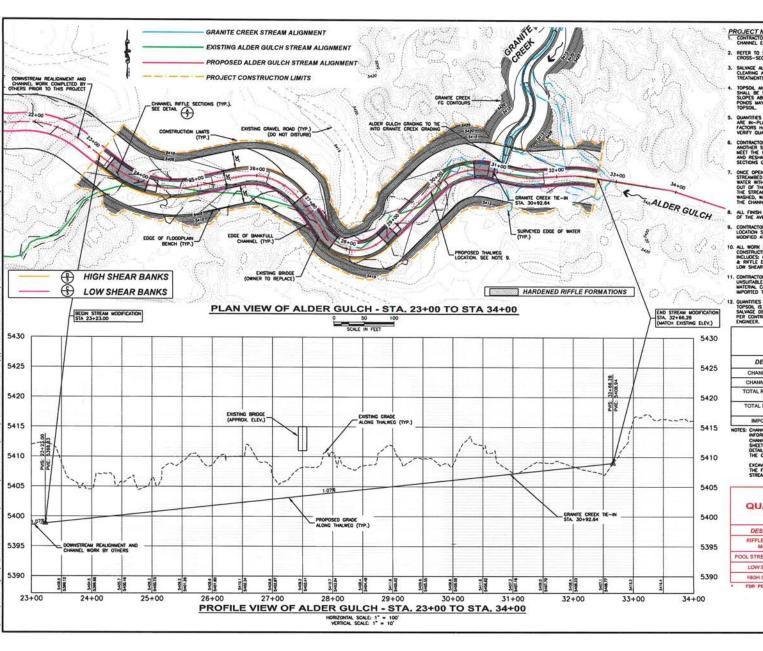
MEAGAN KEY, EI



REVISION DESCRIPTION SHEET NO.







PROJECT NOTES:

1. CONTRACTOR SHALL USE SUITABLE MATERIAL FROM CHANNEL EXCAVATION FOR CHANNEL EMBANKMENT.

2. REFER TO SHEET 6 FOR ALDER GULCH CHANNEL CROSS-SECTIONS.

10. ALL WORK RELATED TO CHANNEL, BANK, AND FLOODPLAN CONSTRUCTION WILL BE PAUD UNDER RIEDM NO. 5. THIS NICLUOES: CHANNEL EXCAPATION & EMBANAMENT, POOL & RIFTLE DEVELOPMENT, STREAMBED MATERIAL, HIGH & LOW SHEAR BANK CONSTRUCTION, ETC.

#### **ESTIMATED** OHANTITIES

DESCRIPTION	(CY)
CHANNEL EXCAVATION	14118
CHANNEL EMBANKMENT	258
TOTAL RIFFLE STREAMBED MATERIAL	229
TOTAL POOL STREAMBED MATERIAL	794
IMPORTED TOPSOIL	1432

## **QUANTITIES BELOW**

DESCRIPTION	QT	Y
RIFFLE STREAMBED MATERIAL	229	CY
POOL STREAMBED MATERIAL	794	CA
LOW SHEAR BANK	1295	LF
HIGH SHEAR BANK	506	LF

DRAFT

GreatWest

2501 BELT VIEW DREVE HELENA, MT 59601 (405)449-6627

ALDER GULCH PLAN & PROFILE STA, 23+00 TO STA, 34+00

CONTRACTOR SHALL DISPOSE OF ANY EXCESS OR UNSUITABLE EXCAVATION MATERIAL OFF-SITE. EXCAVATION MATERIAL CANNOT BE USED FOR STREAMBED MATERIAL MIPORIED TOPSOIL SHOULD BE USED.

I. QUANTITIES SHOWN ON THIS SHEET ASSUME THAT ALL TOPSOIL IS IMPORTED. CONTRACTOR MAY ELECT TO SALVAGE DEPOSITED STREAMBED MATERIAL FOR TOPSOIL PER CONTRACT DOCUMENTS AND BY APPROVAL OF THE ENGINEER.

QUANTITIES		
DESCRIPTION	(CY)	
CHANNEL EXCAVATION	14118	
CHANNEL EMBANKMENT	258	
TOTAL RIFFLE STREAMBED MATERIAL	229	
TOTAL POOL STREAMBED MATERIAL	794	
IMPORTED TOPSOIL	1432	

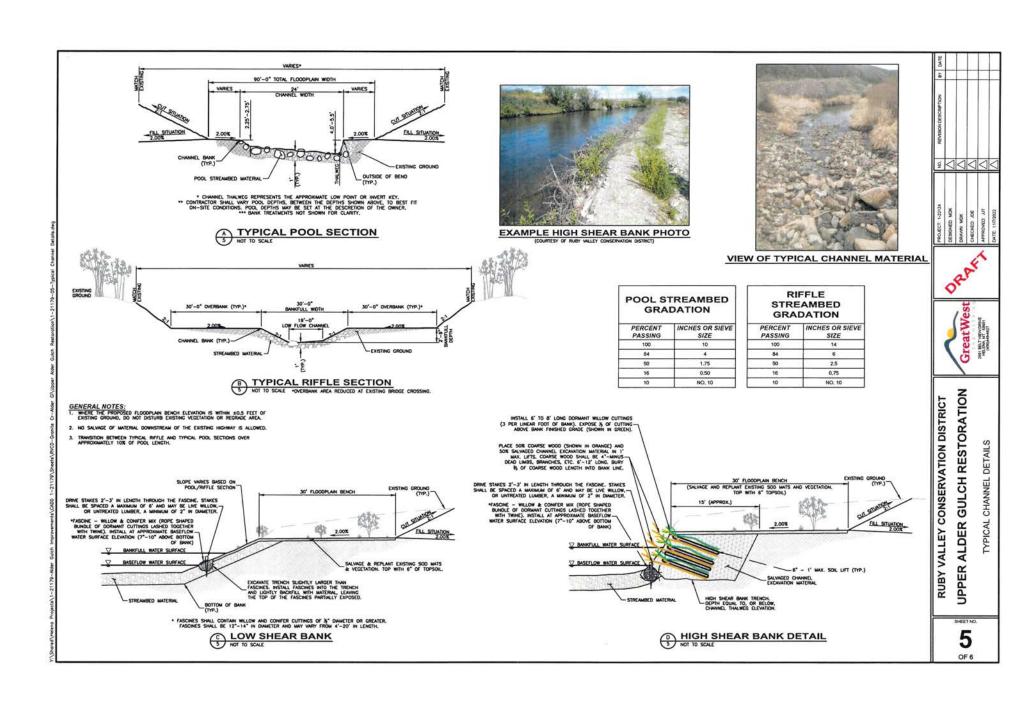
#### **ESTIMATED OHWM**

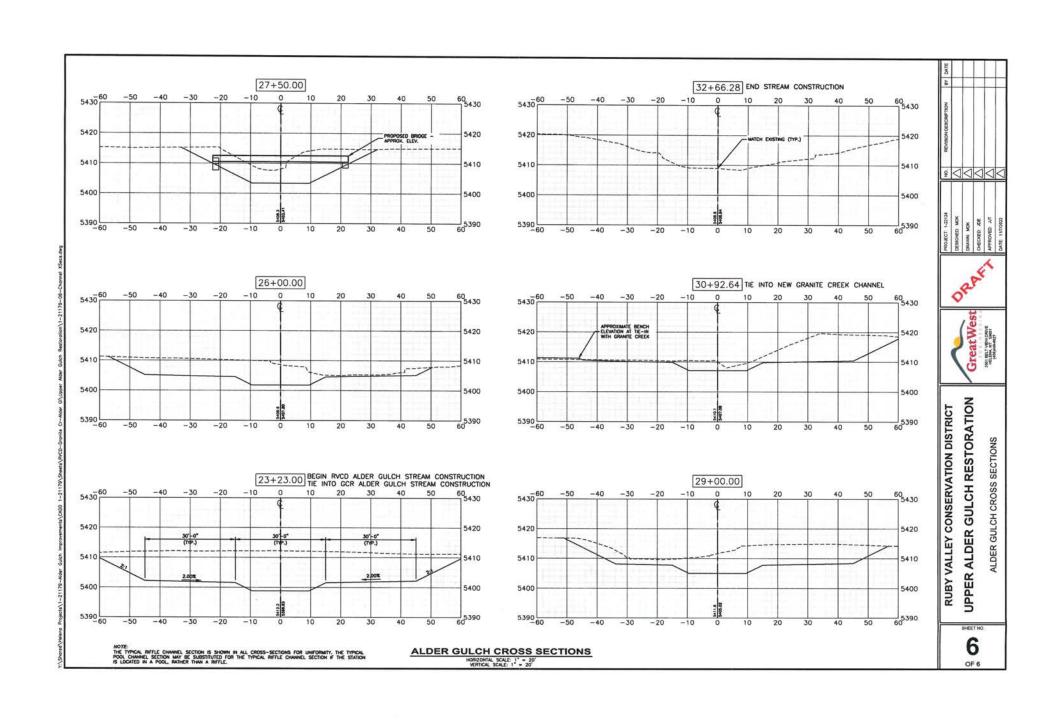
DESCRIPTION	QTY		
RIFFLE STREAMBED MATERIAL	229	CY	
POOL STREAMBED MATERIAL	794	CA	
LOW SHEAR BANK	1295	LF	
HIGH SHEAR BANK	566	LF	

**GULCH RESTORATION** CONSERVATION ALDER ( VALLEY UPPER, RUBY

DISTRICT

SHEET NO. OF 6





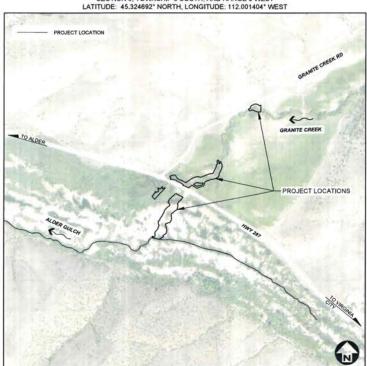
# PROJECT LOCATION

## **RUBY VALLEY CONSERVATION** DISTRICT

### **GRANITE CREEK CHANNEL** RESTORATION

#### PERMITTING PLANS

SECTION 8, TOWNSHIP 6 SOUTH, AND RANGE 3 WEST



NOT TO SCALE

#### PLANS PREPARED FOR:

RUBY VALLEY CONSERVATION DISTRICT



JEREMIAH THEYS, P.E.



#### QA/QC BY:

JUSTIN EVERTZ, P.E. GREAT WEST ENGINEERIN



#### PLANS PREPARED BY:



SHEET INDEX

PROJECT 1-22124

DATE 11/2/2022

COVER
LEGEND AND GENERAL NOTES
OVERALL SITE PLAN
GRANITE CREEK PLAN & PROFILE
GRANITE CREEK PLAN & PROFILE
STAVING TABLES
TYPICAL CHANNEL DETAILS
REVEGETATION PLAN
DEWATERING & REVAITERING PLAN
CONSTRUCTION SEQUENCING
GRANITE CREEK CROSS SECTIONS
GRANITE CREEK COVERFLOW CHANNEL PLAN & PROFILE
GRANITE CREEK COVERFLOW CHANNEL FORCSS SECTIONS
ROADWAY EROSION PLAN & PROFILE
ROADWAY EROSION PLAN & PROFILE
ROADWAY EROSION CHANNEL CROSS SECTIONS SHEET 1 SHEET 2 SHEET 3 SHEET 4 SHEET 5 SHEET 6 SHEET 7 SHEET 8 SHEET 9 SHEET 10 SHEET 11 SHEET 12

SHEET 13 SHEET 14 SHEET 15 SHEET 16 SHEET 17

ROADWAY EROSION CROSS SECTIONS

REVISION DESCRIPTION BY DATE

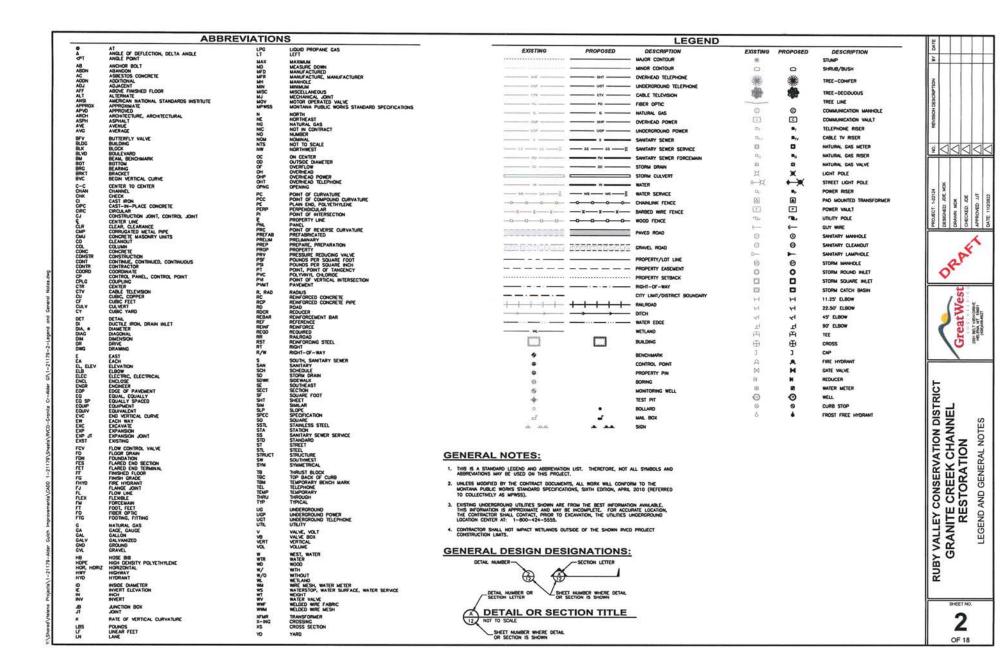
CRURY VALLEY CONSERVATION DISTRICT

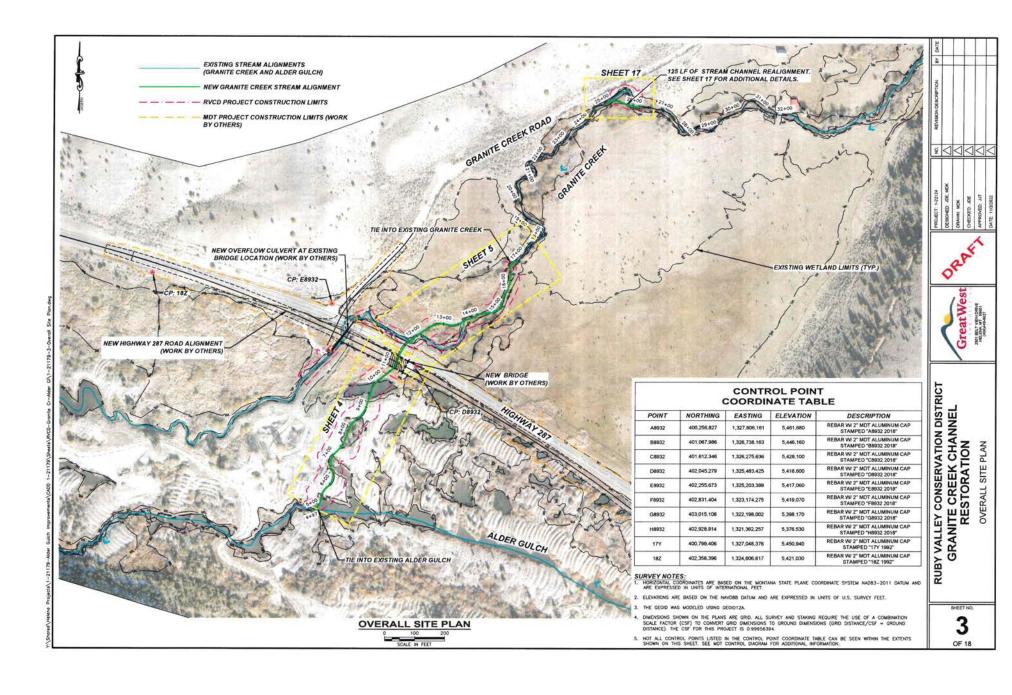
#### APPROVED BY:

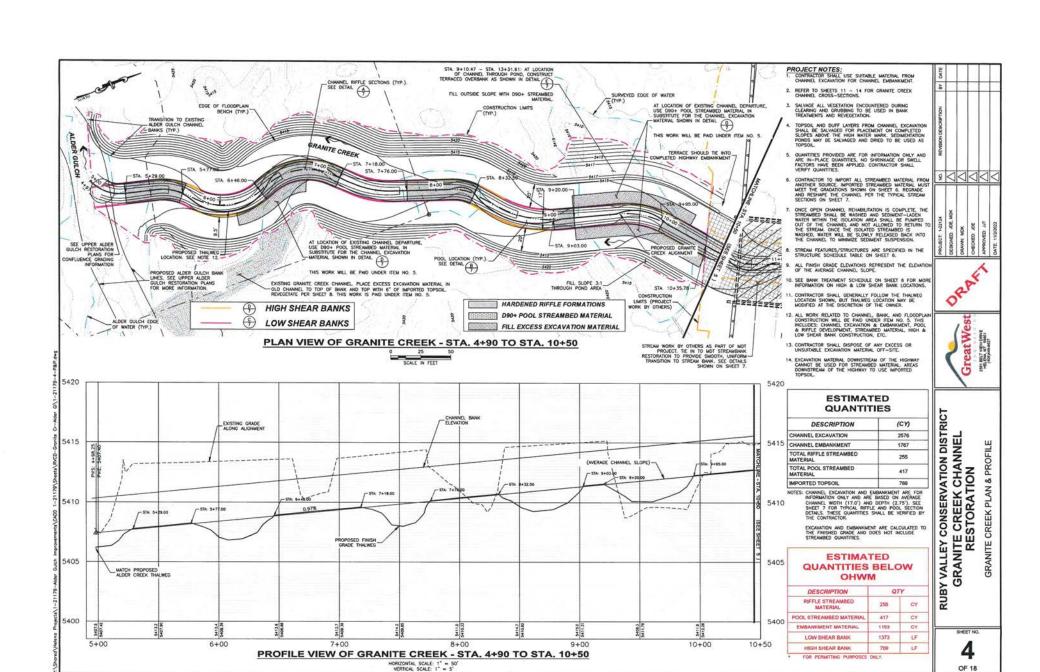


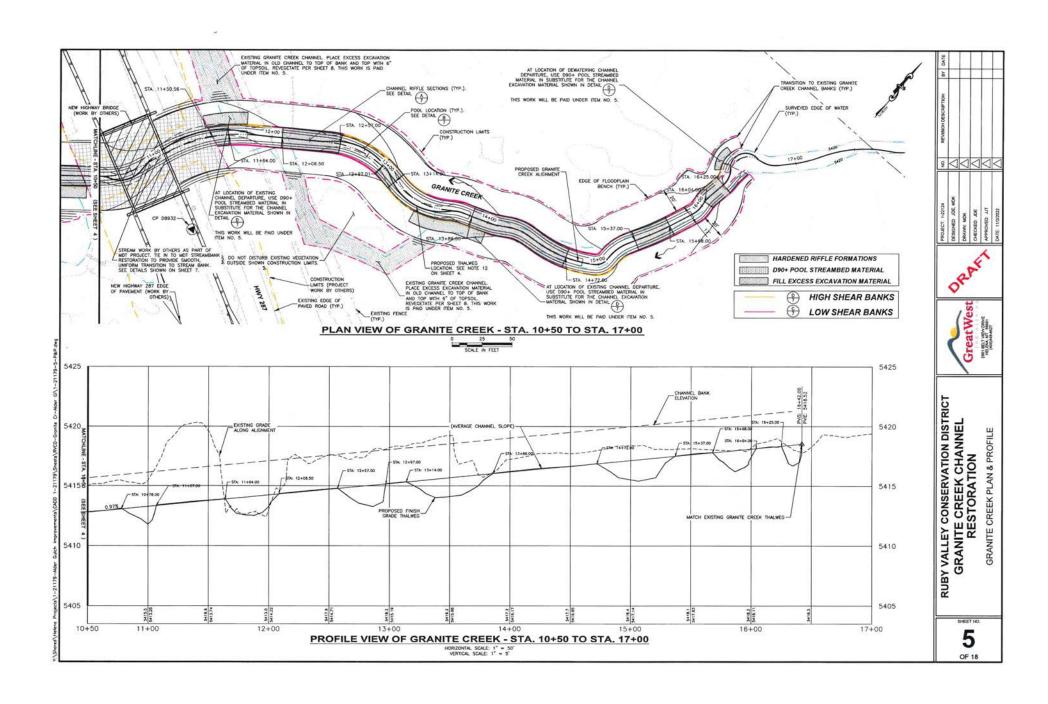
MEAGAN KEY, EI











START STATION	TYPE	START POINT (EASTING,NORTHING)	END STATION	END POINT (EASTING,NORTHING)	LENGTH	DIRECTION	PI STATION	RADIUS	DELTA
24+97,73	Line	(1326104.02, 402923.32)	25+06.72	(1326111.6, 402927.62)	8,98	N59" 56" 17,33"E			
25+06.72	Curve	(1326111.8. 402927.82)	25+29.65	(1326133.34, 492835,28)	22.93		25+18.33	60.00	21,9005 (d
25+29.65	Line	(1320133.34, 402935.28)	25+31.49	(1326135.16, 402935,54)	1.84	N81" 50" 19.25"E			
25+31.49	Curve	(1326135.16, 402935.54)	25+53,41	(1326156.62, 402932.7)	21.92		25+42.73	40.00	31,4019 (d)
25+53.41	Line	(1326156.62, 402932.7)	25+79.45	(1326160.55, 402922.42)	26.04	866° 45' 34,05°E			
25+79.45	Curve	(1326180.55, 402922.42)	26+11,40	(1326211.61, 402915.93)	31,94		25+95.64	80.00	22.8763 (d
26+11.40	Line	(1326211.61, 402915.93)	26+38,15	(1326238.33.402914.72)	26.75	\$87° 23' 55.84°E			

LEFT BANK*			RIGHT BANK*		
START STATION	END STATION	BANK TYPE	START	END STATION	BANK TYPE
4+98.25	5+91.72	LOW SHEAR	4+98.25	5+54.28	LOW SHEAR
5+91,72	6+45.51	HIGH SHEAR	5+54.28	5+89,55	HIGH SHEAR
6+45,51	8+33,72	LOW SHEAR	5+89.55	6+55.37	LOW SHEAR
8+33,72	9+01,79	HIGH SHEAR	6+55.37	7+18.00	HIGH SHEAR
9+01.79	9+93,75	LOW SHEAR	7+18.00	8+00.78	LOW SHEAR
9+93.75	10+39.45	HIGH SHEAR	8+00.78	8+57.04	HIGH SHEAR
10+39,45	11+53,33	MOT LIMITS	8+57,04	9+54,55	LOW SHEAR
11+53.33	13+04.77	LOW SHEAR	9+54,55	10+09.87	HIGH SHEAR
13+04.77	14+02.06	HIGH SHEAR	10+09.87	10+32.10	LOW SHEAR
14+02.06	14+75.33	LOW SHEAR	10+32,10	11+48.23	MOT LIMITS
14+75,33	15+28,11	HIGH SHEAR	11+48.23	11+99.46	HIGH SHEAR
15+28,11	16+54,65	LOW SHEAR	11+99.46	12+58.63	LOW SHEAR
			12+58.63	13+43.60	HIGH SHEAR
			13+43.60	15+08.66	LOW SHEAR
			16+08.66	15+54.65	HIGH SHEAR

		_
*LEFT AND RIGHT	BANKS ARE REFERENECED LOOKING DOWN	NSTREAM

### POOL STREAMBED GRADATION

PERCENT PASSING	INCHES OR SIEVE SIZE
100	10
84	4
50	1.75
16	0.50
10	NO, 10

#### RIFFLE STREAMBED GRADATION

PERCENT PASSING	INCHES OR SIEVE SIZE
100	14
84	- 6
50	2.5
16	0.75
10	NO, 10

#### POOL/RIFFLE SCHEDULE

START	END STATION	CHANNEL TYPE
4+98.25	5+29.00	POOL
5+29,00	5+77.00	RIFFLE
5+77,00	6+46,00	POOL
6+46.00	7+18,00	RIFFLE
7+18.00	7+76.00	POOL
7+76,00	8+32.50	RIFFLE
8+32.50	9+03.00	POOL
9+03,00	9+20,00	RIFFLE
9+20.00	9+95.00	POOL.
9+95.00	10+35.78	RIFFLE
10+35,78	11+50,56	MOTLIMITS
11+50,58	11+64.00	RIFFLE
11+64.00	12+08.50	POOL
12+08.50	12+57.00	RIFFLE
12+57.00	12+97.00	POOL.
12+97,00	13+14,00	RIFFLE
13+14.00	13+86,00	POOL
13+86.00	14+72,00	RIFFLE
14+72.00	15+37.00	POOL
15+37.00	15+68,00	RIFFLE
15+68.00	16+04.00	POOL
16+04,00	16+25,00	RIFFLE
16+25.00	16+42.00	POOL







RUBY VALLEY CONSERVATION DISTRICT GRANITE CREEK CHANNEL RESTORATION

STAKING TABLES

SHEET NO

6 OF 18

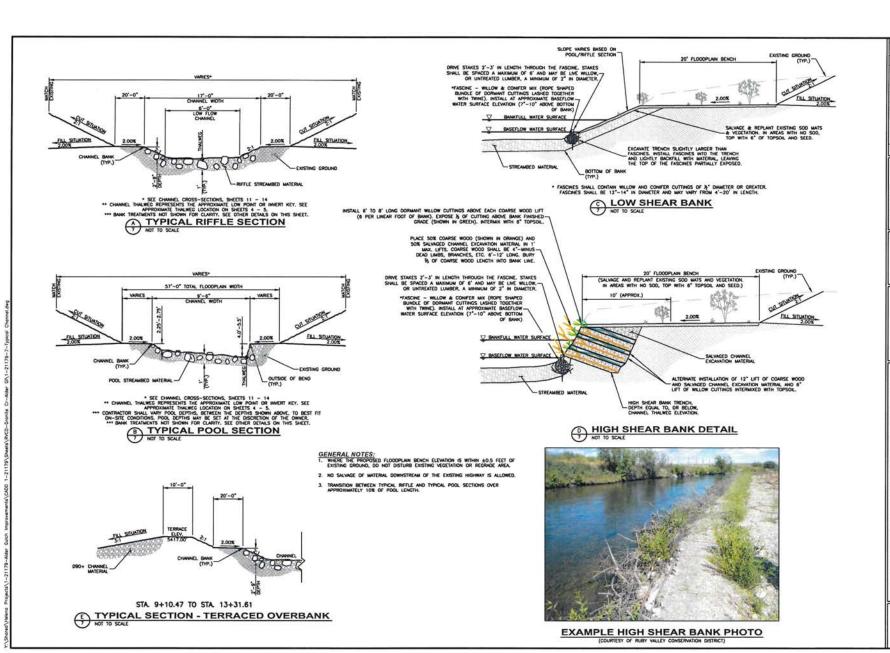
16+85.14

(1325820.77, 402398.89)

16+97.22

(1325829.04, 402407.7)

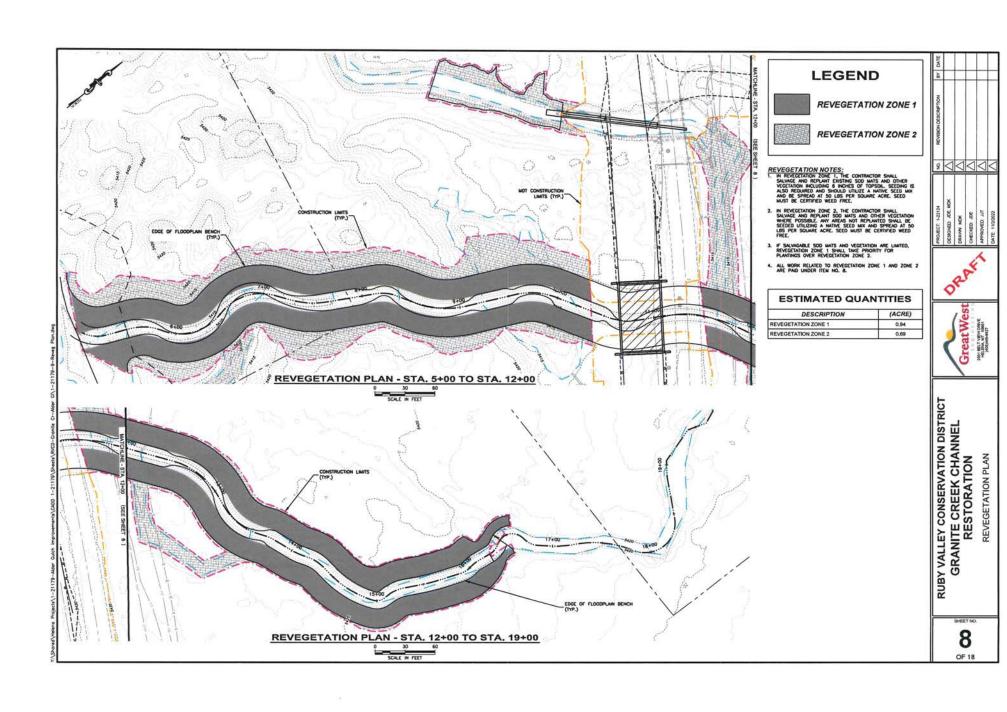
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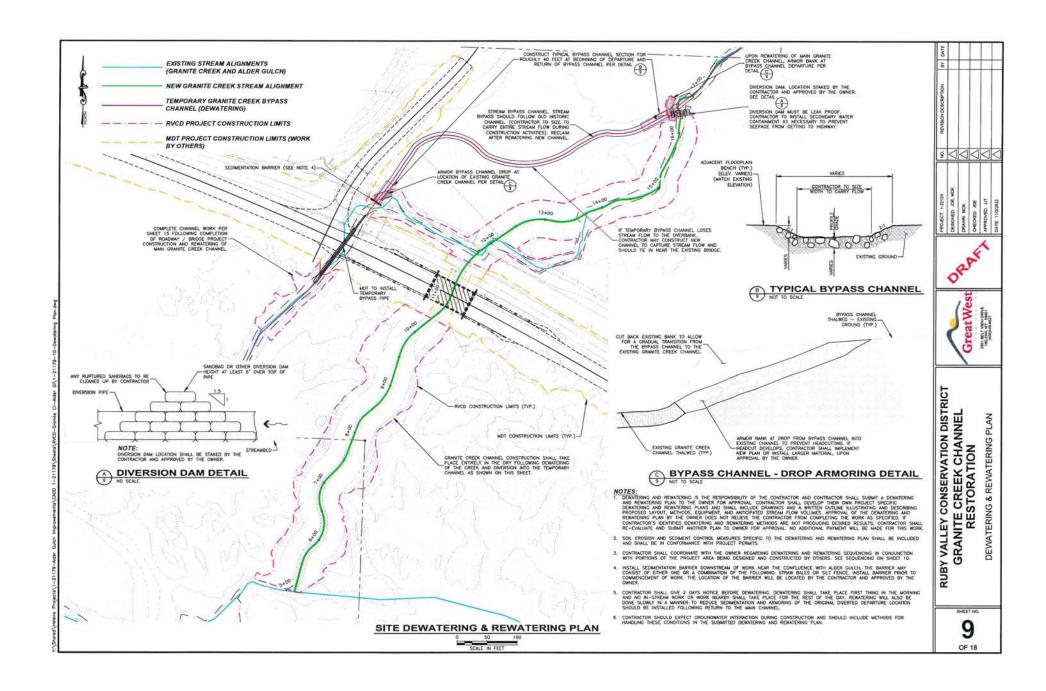


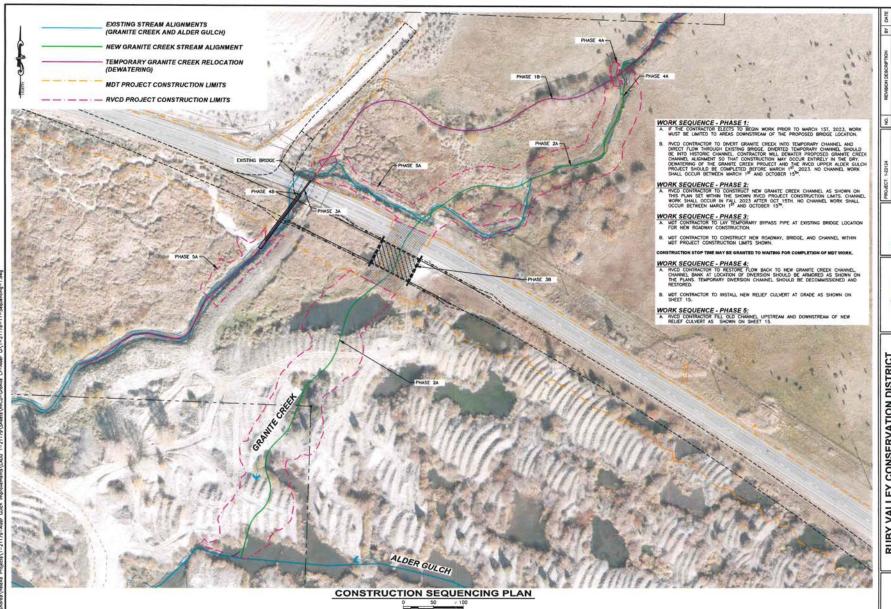


RUBY VALLEY CONSERVATION DISTRICT GRANITE CREEK CHANNEL RESTORATION TYPICAL CHANNEL DETAILS

OF 18







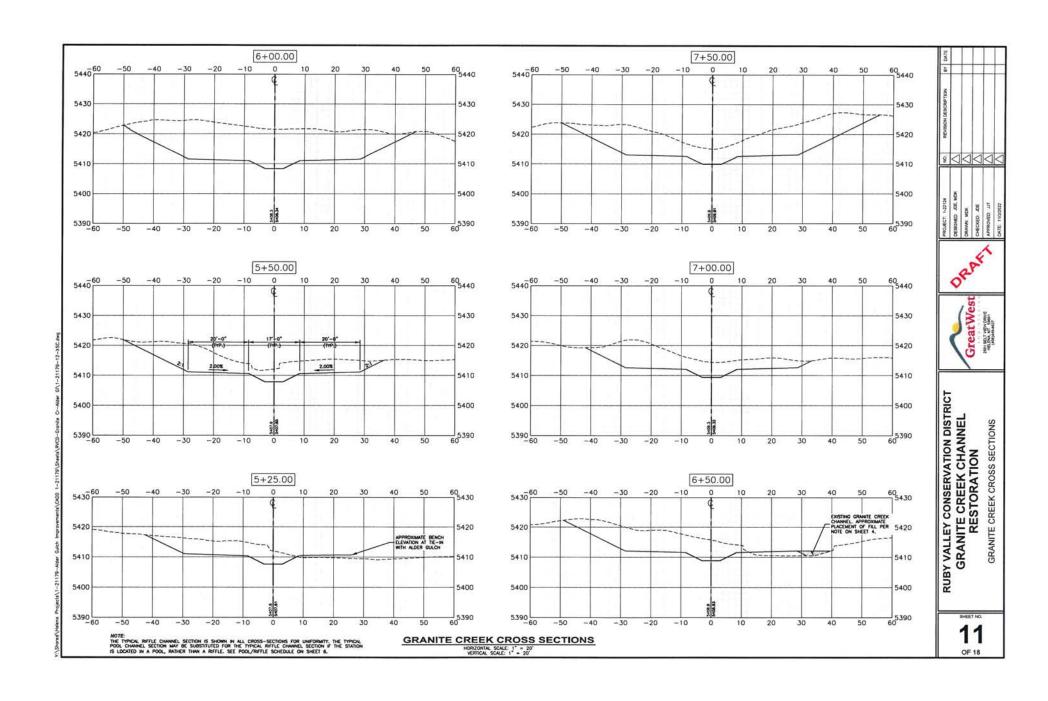
| PROJECT 1-27134 | No. REVRIENT DESCRIPTION | Project | REVRIENT DESCRIPTION | Project | Projec

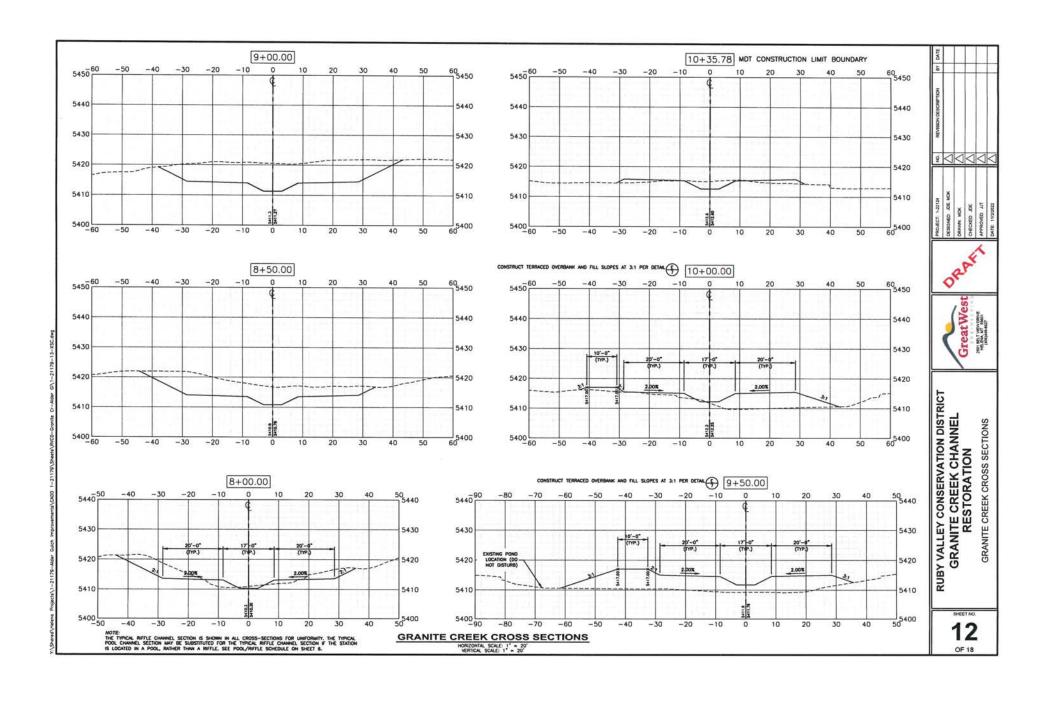
## RUBY VALLEY CONSERVATION DISTRICT GRANITE CREEK CHANNEL RESTORATION

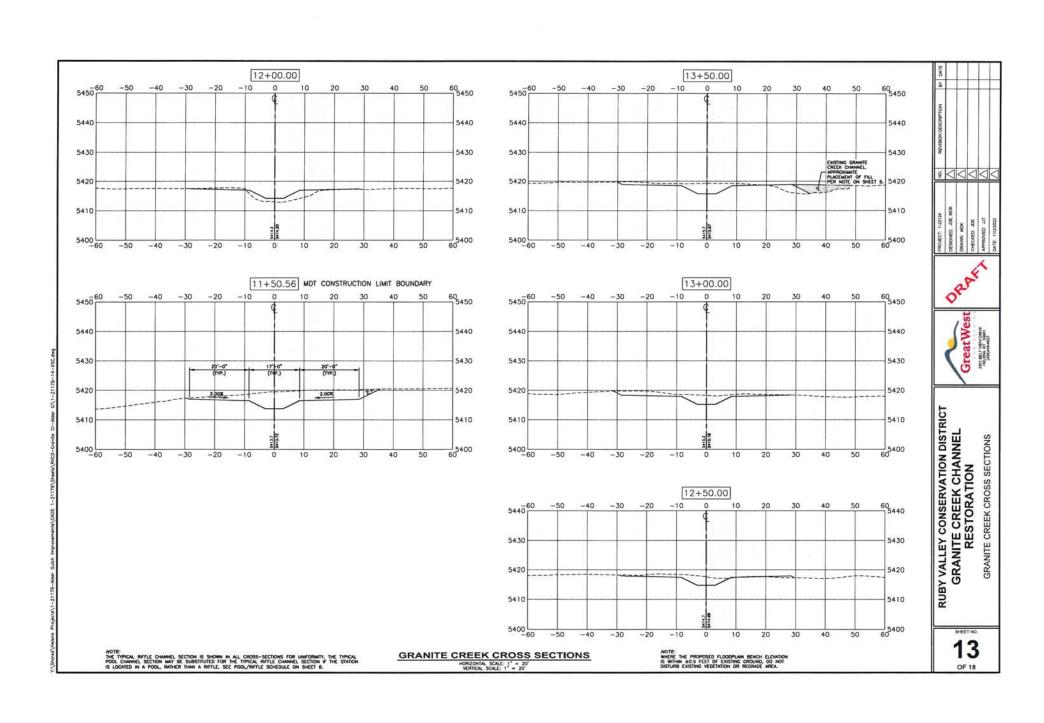
CONSTRUCTION SEQUENCING

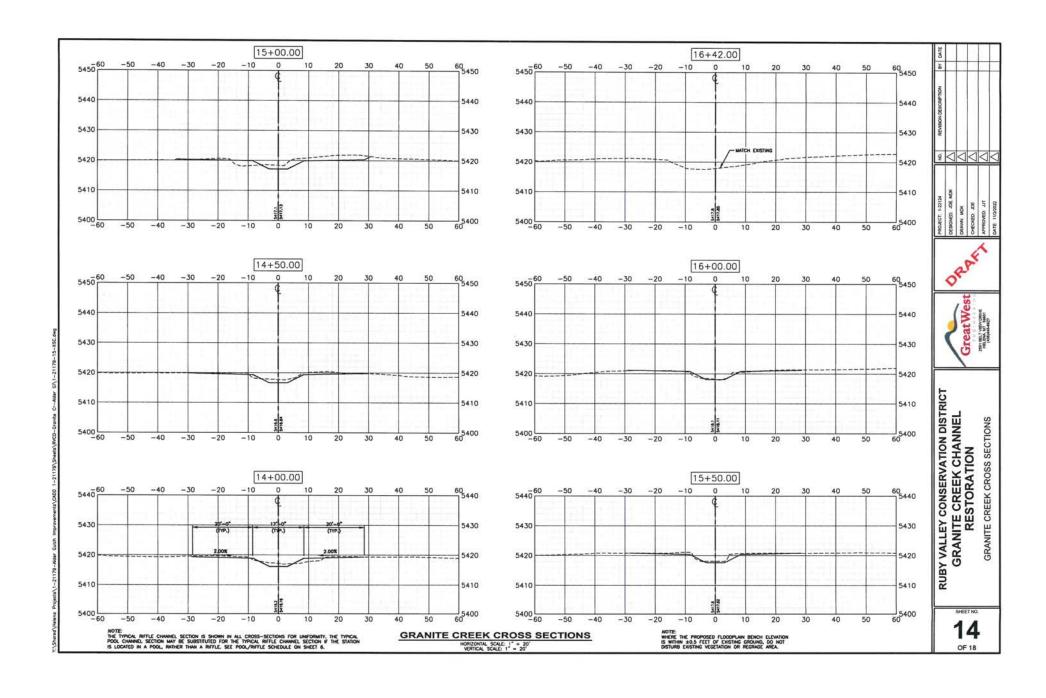
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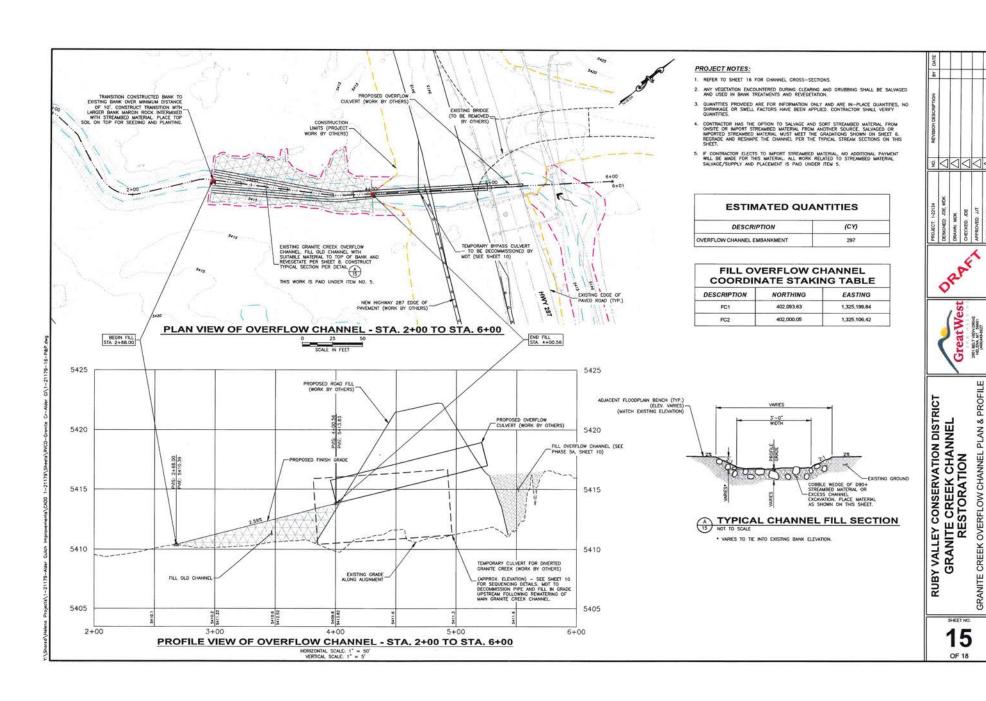
10 OF 18

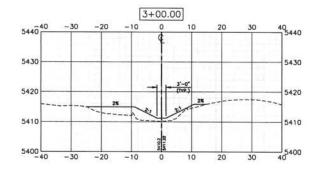


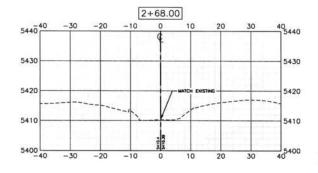


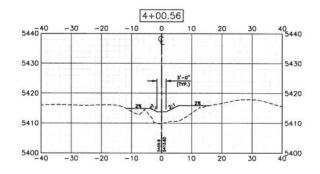


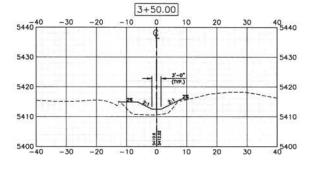












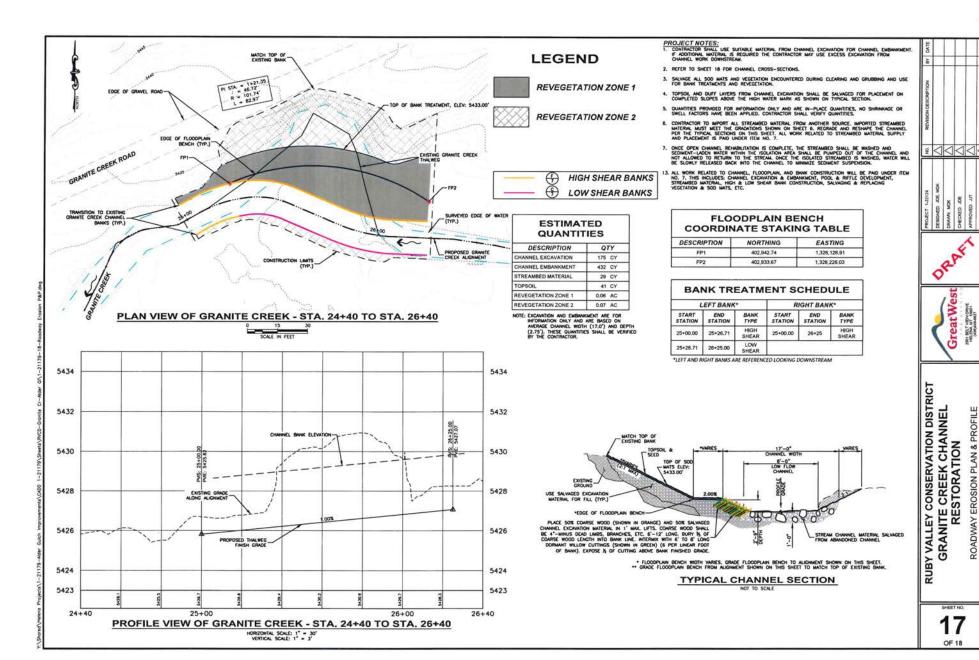


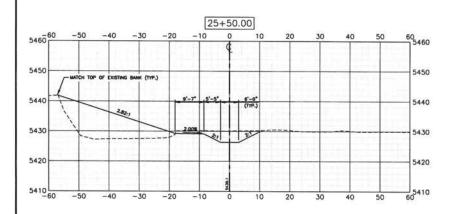


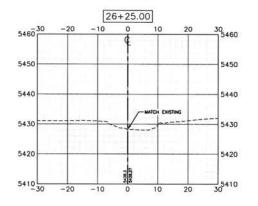
RUBY VALLEY CONSERVATION DISTRICT GRANITE CREEK CHANNEL RESTORATION

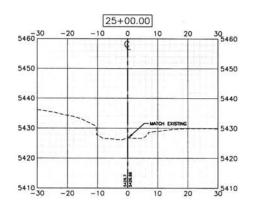
GRANITE CREEK OVERFLOW CHANNEL CROSS SECTIONS

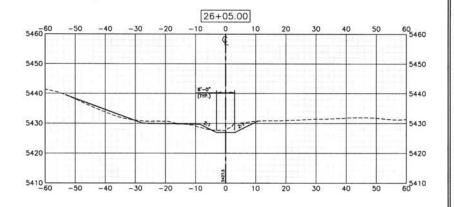
16











	PROJECT: 1-22124	Ž,	REVISION DESCRIPTION	BY	BY DATE
	DESIGNED: JOE: MDK	◁			
2	DRAWK MDK	4			
*	CHECKED, JDE	4			
4	APPROVED. JUT	4			
	DATE 11/2/2022	<			



RUBY VALLEY CONSERVATION DISTRICT GRANITE CREEK CHANNEL RESTORATION

ROADWAY EROSION CROSS SECTIONS

SHEET NO. 18 OF 18

ROADWAY EROSION CROSS-SECTIONS

HORZONTAL SCALE: 1" = 20"
VERTICAL SCALE: 1" = 20"

