



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Water Rights

KENT L. JONES
State Engineer/Division Director

October 30, 2017

RE: Stream Channel Alteration No. 17-91-10SA
Eccles Creek
Utah Department of Transportation – Region 4

Attached is a copy of an application to alter a natural stream, which has been submitted to the Division of Water Rights (Division) for processing.

In processing this application, the Division will work to determine if the project will:

- Unreasonably or unnecessarily affect any recreational use or the natural stream environment;
- Unreasonably or unnecessarily endanger aquatic wildlife;
- Unreasonably or unnecessarily diminish the natural channel's ability to convey high flows; or
- Impair vested water rights.

Any decision made regarding this application will be based exclusively on these four criteria. If you have information regarding these four criteria that will aid the Division in making a determination and subsequent decision, please submit this information, in writing, to this office by **November 19, 2017**. For questions or comments pertaining to all other aspects of the project, please contact the applicant listed on the front page of the application directly.

Sincerely,

Tiffany Gonzales
for Daren Rasmussen, P.G.
Stream Alteration Specialist

Pc: Richard Clark - EPA
Corps of Engineers
Supervisor - U. S. Fish & Wildlife
Marc Stilson - Regional Engineer
Chris Wood - Regional Wildlife Habitat Manager
Bill James - Wildlife Resources
Bill Damery - DEQ, Water Quality Division
Laura Ault - Forestry Fire & State Lands
RDCC Coordinator
State Parks & Recreation
Lori Hunsaker - State History
W. D. Robinson - Department of Agriculture
Kathy Holder - Department of Emergency Management



Rec. by **IAT m**
 Fee Rec. **\$ 500.00**
 Receipt # **11-0227**

JOINT PERMIT APPLICATION FORM

U.S ARMY CORPS OF ENGINEERS – FOR SECTIONS 404 AND 10

UTAH STATE ENGINEER’S OFFICE – FOR NATURAL STREAM CHANNELS

Application Number 1 17-91-10SA
 (assigned by): _____ Corps _____ State Engineer

Applicant's Name (Last, First M.I. or entity if not an individual)	Authorized Applicant Representative (if any)	Applicant's Telephone Number and Area Code
Utah Department of Transportation	Dan Hinckley	435-636-1470
		Representative's Telephone Number and Area Code
		801-520-7386

Applicant's Address (Street, RFD, Box, Number, City, State, Zip)
 940 S Carbon Ave.
 Price, UT 84501

PROJECT LOCATION

X: 484017.16 Y: 4392486.92

Quarter Section(s)	Section	Township	Range	Base & Meridian
NW1/4	19	T13S	R7E	Salt Lake
County		Associated Watercourse or Watercourse to be Altered	Check one: <input type="checkbox"/> Within City Limits <input checked="" type="checkbox"/> Outside City Limits	
Carbon		Eccles Creek	List town or nearest town: Scofield	

Project location or address:
SR-264 MP 13.7

Brief description of project including methods and equipment to be employed to complete the work:
 An approximately 250-foot long riprap drainage channel will be constructed along the existing highway eastbound shoulder. The channel will collect stormwater runoff and direct it to the project low point where a new 18-inch diameter corrugated metal pipe (CMP) will convey the water down the stream bank and into Eccles Creek. A riprap apron will be constructed at the outlet of the pipe. The riprap apron will extend approximately 2 feet below OHWM. All work will be completed from above the creek using a front-end loader, a backhoe and a mini-excavator. The project will not add deposition or erosion into the stream channel, the channel will not be relocated and the flowline will not be altered.

Purpose (justification) of project:
 The subject stream bank of Eccles creek reclaimed in 2015. The stream bank was graded to a 2H:1V slope. Since then, due to the super elevation in the roadway cross-slope, stormwater has created several deep erosion rills along the reclaimed section. This project will mitigate erosion of the stream bank.

Is this a single and complete project or is part of a larger project, continuing project, or other related activities? If so, please describe the larger project or other related activities.
 This action is undertaken in conjunction with the Watershed Restoration Project #4130, which provides 2017 grant funding to the Utah Division of Oil, Gas & Mining to purchase and install excelsior logs on the recently reclaimed Eccles Creek slope. (Reconstruction of Eccles Creek was completed in 2015 under stream alteration permit #15-91-05SA.)

If project included the discharge of dredged or fill material into a watercourse or wetland:

Cubic yards of material:	0.5 cu yds of riprap below OHWM
Acreage or square footage of waters of the United States affected by the project:	8 sq ft
Source and type of fill material:	locally-sourced riprap
Length of stream that will be impacted below ordinary high water elevation:	4 linear feet

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OCT 27 2017
 WATER RIGHTS
 SALT LAKE

<p>Alternatives (other ways to accomplish project purpose):</p> <p>No action: the stream bank soils will continue to erode, eventually damaging the roadway, causing large safety concerns.</p>	
<p>Describe any proposed mitigation to offset impacts to the stream channel.</p> <p>All machine work will be completed from above the creek, erosion control measures are in place to limit debris and soil erosion into the creek during construction.</p>	
<p>Cultural resource impacts:</p> <p>Are you aware of any cultural resources or any historic properties that will be impacted by the proposed project? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If Yes, please explain:</p> <p>Has a cultural resource survey been conducted on the property where the proposed project is to occur? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes, please briefly explain the survey results:</p> <p>Yes. "Intensive Archaeological Surface Evaluations in the Proposed Whiskey Creek Canyon-Pleasant Valley Project in Carbon County, Utah." . F.R. Hauck, and D.G. Weder . 1980. IN Appendix 411.140. White Oak Mining and Reclamation Plan, C/007/0001. The survey found no historic sites at the location of the present day culvert and fill. The mining and reclamation permit received SHPO clearance at the time of permitting.</p>	
<p>List other authorizations required by Federal, state, or local governments (i.e. National Flood Insurance Program), and the status of those authorizations.</p> <p>Bluestakes will be contacted a minimum of 48 hours prior to work commencing on site.</p>	
<p>Estimated starting date of project:</p> <p>September 2017</p>	<p>Estimated completion date:</p> <p>October 2017</p>

Please complete the following checklist

Failure to indicate that all pertinent information has been submitted will result in your application being returned.

- Appropriate application processing fee payment (see fee schedule below).
- A clear site location map with enough detail to easily find the site, a recent aerial/satellite image of the site, and a USGS topography map (7.5 minute quadrangle map is recommended).
- Plan view and cross-sectional drawings showing all work requiring a permit, including fills, structures, borrow sites, staging areas and storage areas. The drawings must clearly demarcate the ordinary high water mark of the waters of the U.S. to be impacted and clearly illustrate where fill will be placed below the ordinary high water mark. Professional drawings are not required; however, drawings must be scaled or indicate dimensions of the work to be completed.
- A restoration plan for any areas temporarily disturbed during work, including re-contouring, revegetation with appropriate native plants and maintenance and monitoring to ensure success for the restored area.
- Ground photographs taken from various locations of the proposed disturbance area.
- Please check the box if the proposed project involves bank stabilization or protection. If so, please complete the following:
 - A description of the need for the work, including the cause of the erosion and the threat posed to structures, infrastructure, and/or public safety.
 - A narrative demonstrating the proposed activity incorporates the least damaging bank protection methods. These methods include, but are not limited to, the use of bioengineering, biotechnical design, root wads, large

woody debris, native plantings, and beach nourishment in certain circumstances. If rock must be used due to site erosion conditions, explain how the bank stabilization structure incorporates elements beneficial to aquatic organisms.

- A planting plan which involves the use of native riparian plants, unless the applicant demonstrates it is not appropriate or not practicable.
- An assessment of the likely impact the work would have on upstream, downstream and cross-stream properties. Specifically, discuss the following:
 - Will the activity accelerate deposition or erosion?
 - Will the activity involve relocation, channelization or realignment of a natural channel?
 - Will the activity result in a shift in the main flow patterns?

Application is hereby made for a permit or permits to authorize the activities described herein. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief, such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities or am acting as the duly authorized agent of the applicant which is a (check one of the following) commercial , non-commercial , or governmental entity.

Signature of Applicant Daniel W Hinckley Date: 07 Sep 2017

I hereby certify that Brian Nielsen of the Utah Department of Transportation is acting as my agent on this project.

Agent's address and telephone number: Colton Station, US-6 MP 217, Colton, UT 84526 435-820-4435

Filing Instructions

Application supplements should be submitted on paper no larger than 11 x 17 inches or alternatively as PDF format electronic files. If more than one watercourse is to be altered as a result of the project, a separate application must be submitted for each watercourse. Application fees must be received by the Division of Water Rights at the time of application submission and must be either hand delivered or submitted through standard mail to the following address:

Utah Division of Water Rights
1594 W. North Temple, Suite 220
Salt Lake City, UT 84114-6300

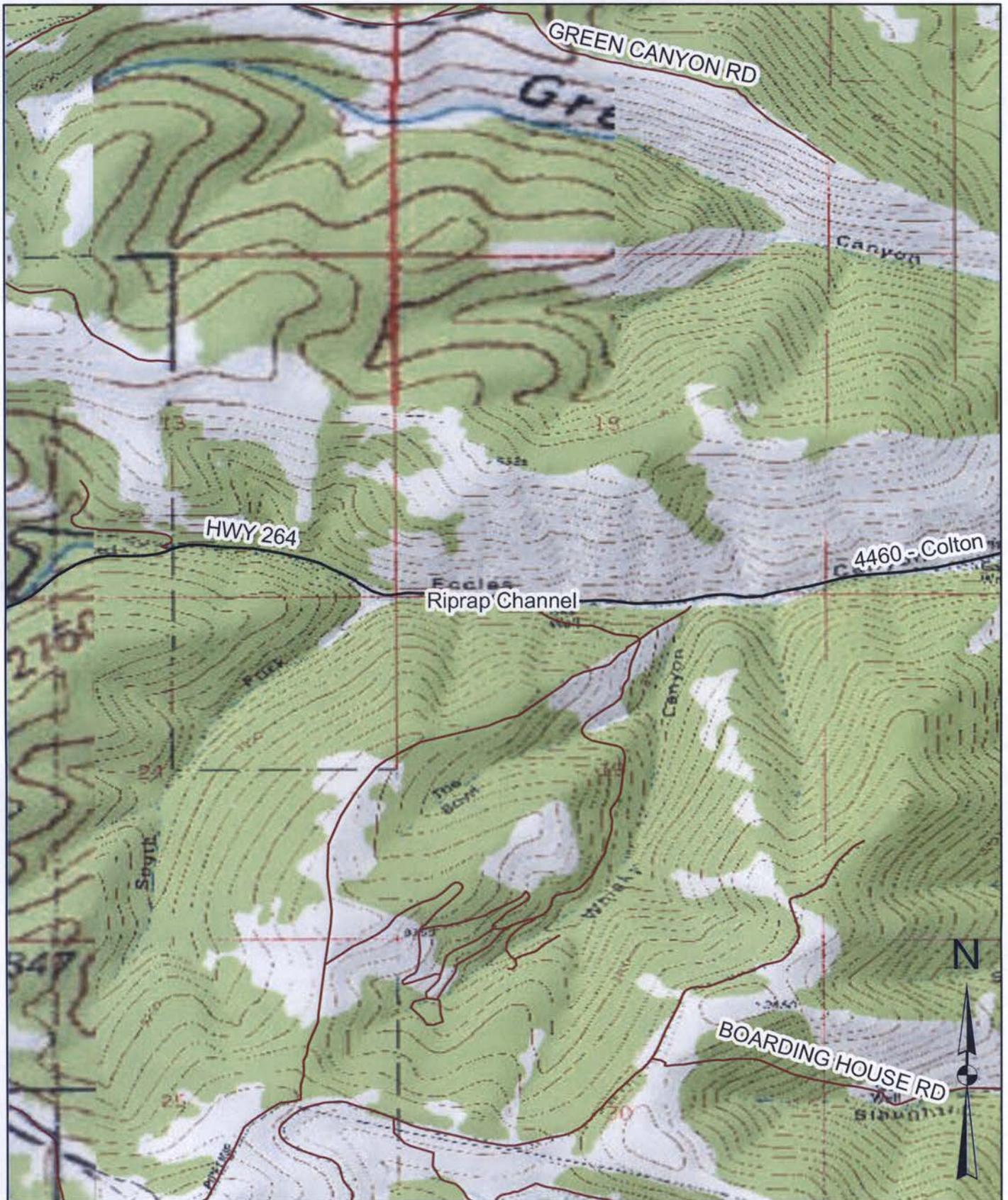
Application Processing Fees

Application fees are based on the type of entity applying for the proposed stream alteration project.

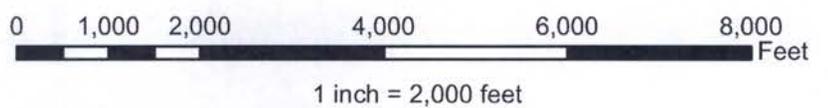
Commercial Entities:	\$2000.00	per application processed.
Non-Commercial Entities:	\$100.00	per application processed.
Governmental Entities:	\$500.00	per application processed.

For Payment, please charge \$500 to:

Fund: 2800
Agency: 810
Unit: 4460
Approp: XDE
Obj: 6137
Activity: 7S55
Route: 264
MP: 13-14



PROJECT: Eccles Riprap Channel
 ROUTE: Utah State Route 0264
 MILEPOST: 13.7
 LOCATION: South side of SR-264

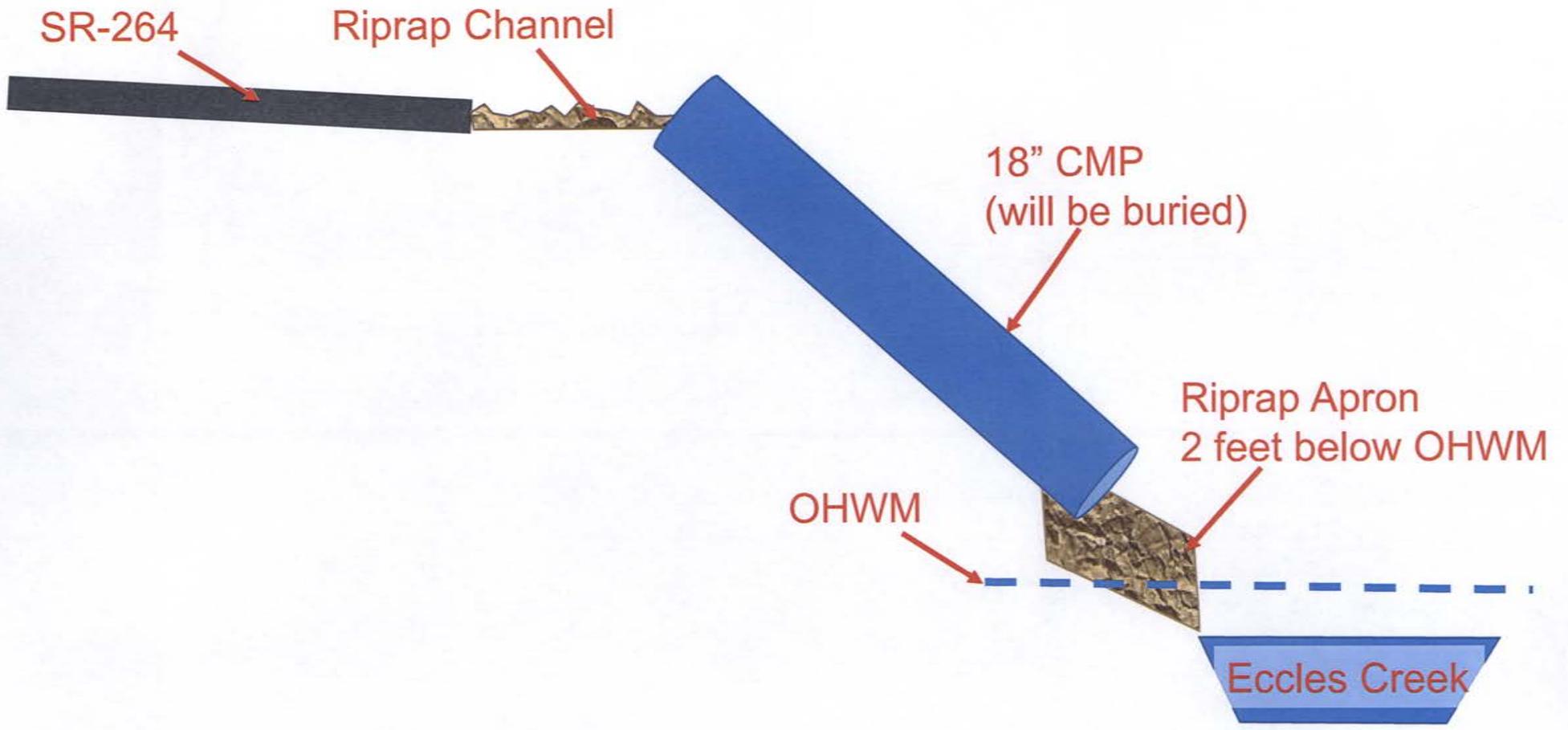




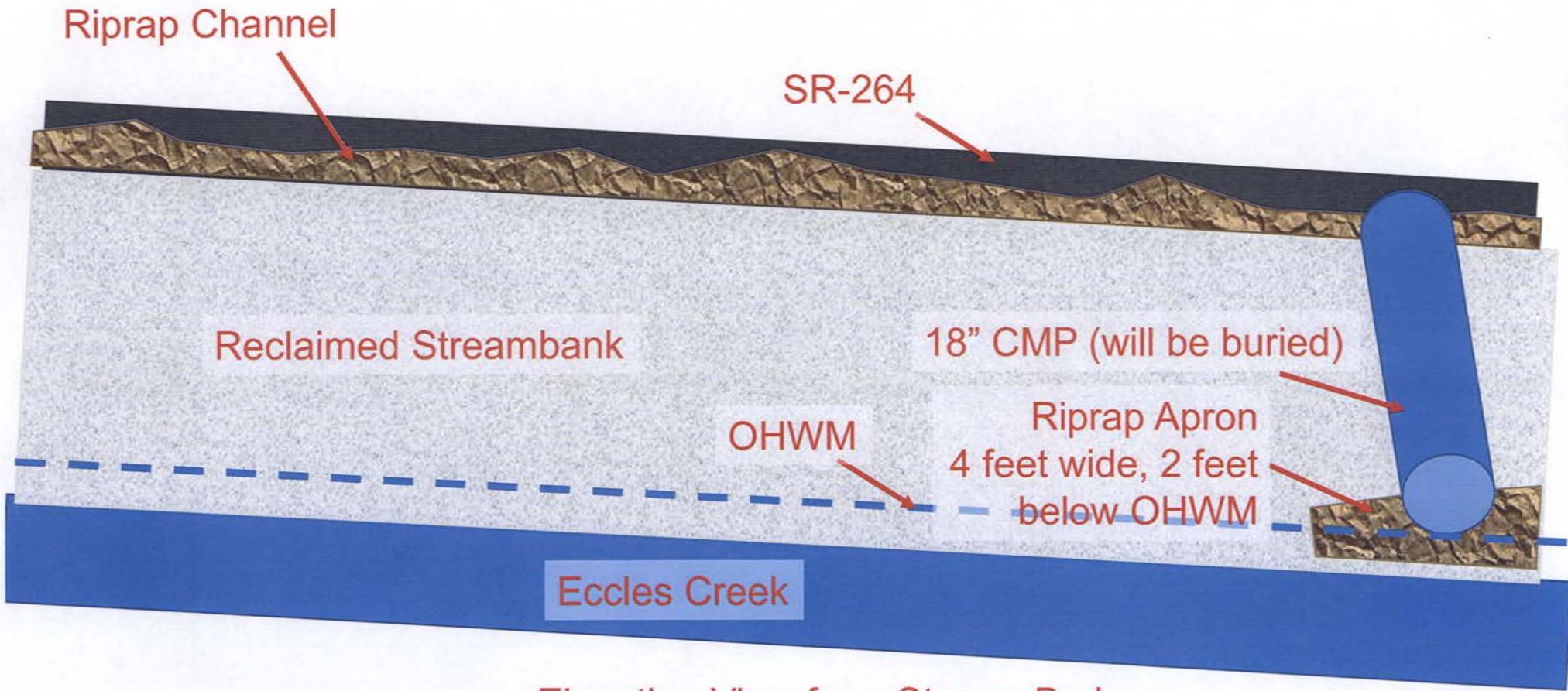
PROJECT: Eccles Riprap Channel
ROUTE: Utah State Route 0264
MILEPOST: 13.7
LOCATION: South side of SR-264



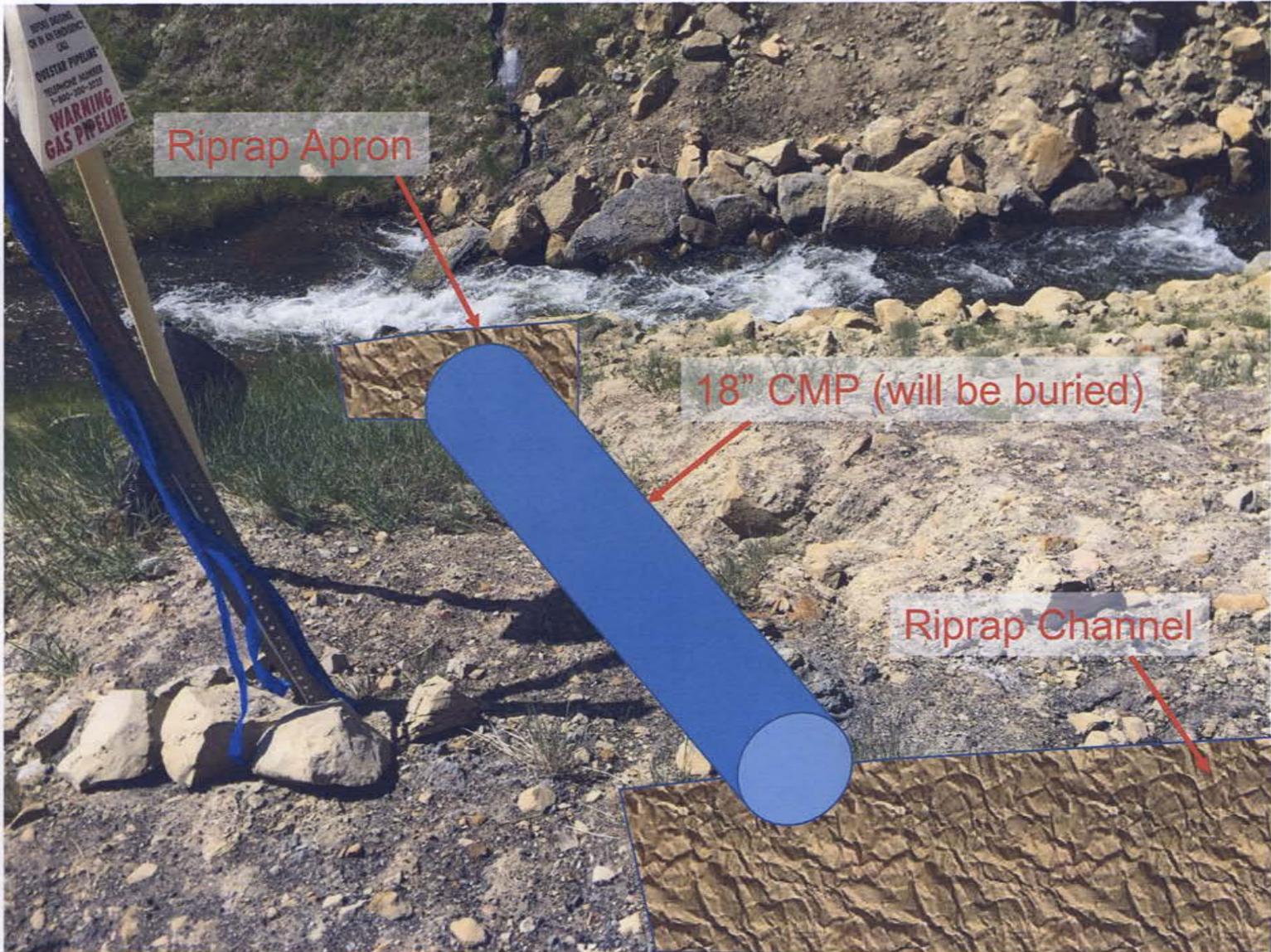
1 inch = 100 feet



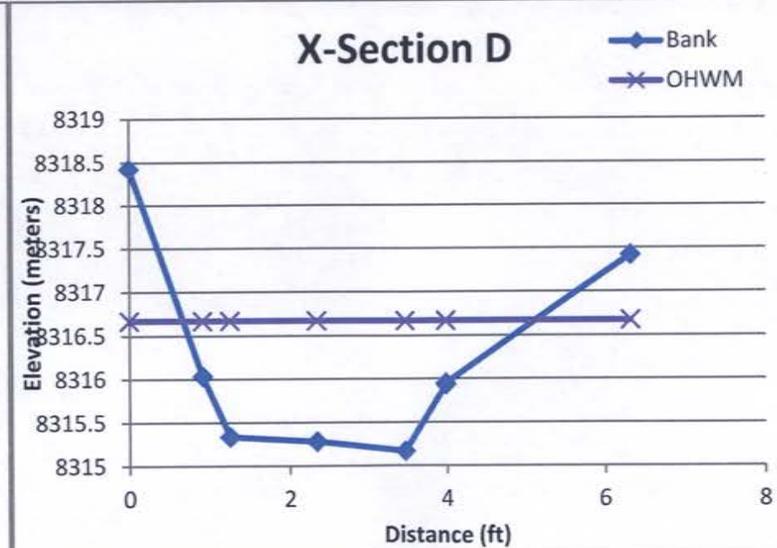
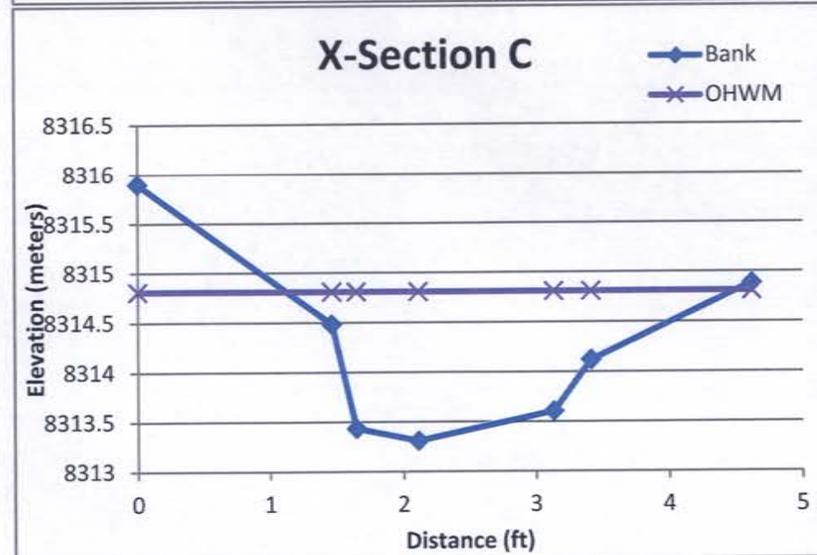
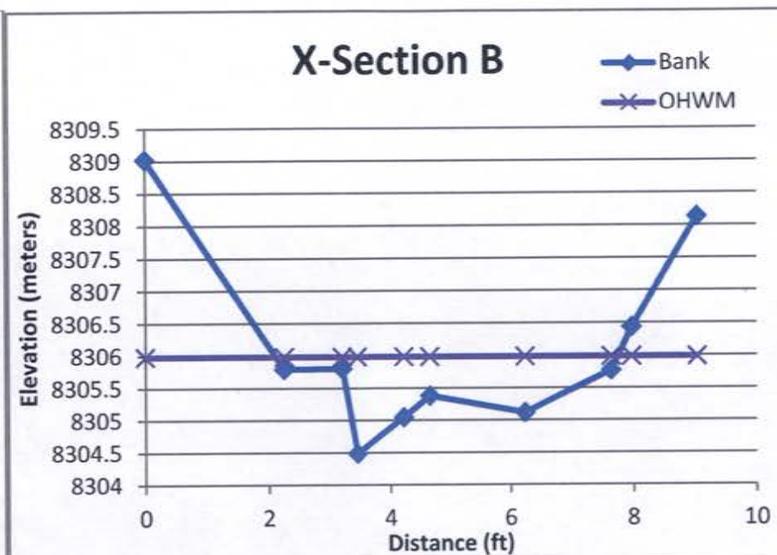
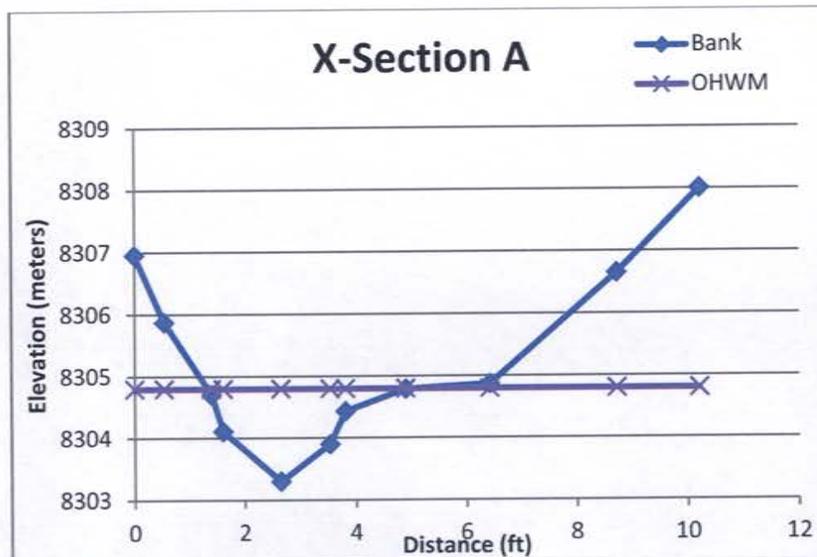
Profile View at Culvert







Eccles Creek Cross Sections Undisturbed



Eccles Creek Stream Alteration Permit Application
Cross Section location photos

Section A-A'



Cross section B-B'



Cross Section C-C' (person is at the location)



Cross Section D-D' (log is location)



R-264 Roadway Drainage Improvement Restoration Plan

UDOT will restore all disturbed upland areas not covered with rip rap using weed-free native grasses, and forbs. The disturbed area will be restored to natural grade, tilled if necessary to loosen compacted soils and planted with the following native plant mix. UDOT will monitor planning success. If after three years planting is not 60% successful, based off surrounding vegetation, UDOT will follow-up with revegetation as appropriate.

ROADWAY SEEDING SCHEDULE										
GRASSES / FORBS / SHRUB	SEED NAME			NUMBER OF SEEDS PER POUND	QUANTITY					
	SEED NO.	COMMON NAME	BOTANICAL NAME		POUNDS OF PURE LIVE SEED PER ACRE	% OF MIX	SEEDS/ SQ. YD.	POUNDS OF PURE LIVE SEED PER ACRE	% OF MIX	SEEDS/ SQ. YD.
					DRILL			BROADCAST		
G	1	Saline Wildrye	Leymus salinus	135,000	2.50	18.38%	70	3.75	18.38%	105
G	2	Bottlebrush Squirretail	Elymus elymoides	192,000	2.00	14.71%	79	3.00	14.71%	119
G	3	Bluebunch Wheatgrass	Pseudoroegneria spicata ssp. Spicata	250,000	2.00	14.71%	103	3.00	14.71%	155
G	4	Letterman Needlegrass	Achnatherum lettermanii	225,000	2.00	14.71%	93	3.00	14.71%	139
G	5	Slender Wheatgrass	Elymus trachycaulus ssp. Trachycaulus	1,758,000	0.50	3.68%	182	0.75	3.68%	272
G	6	Western Wheatgrass	Pascopyrum smithii	110,000	3.00	22.06%	68	4.50	22.06%	102
G	7	Creeping Bentgrass	Agrostis stolonifera	6,400,000	0.10	0.74%	132	0.15	0.74%	198
G	8	Tufted Hairgrass	Deschampsia cespitosa	1,500,000	0.50	3.68%	155	0.75	3.68%	232
F	9	Pacific Aster	Aster chilensis	2,668,000	0.50	3.68%	276	0.75	3.68%	413
F	10	Western Yarrow	Achillea millefolium var. Occidentalis	2,770,000	0.50	3.68%	286	0.75	3.68%	429
TOTAL POUNDS OF PURE LIVE SEED PER ACRE					13.60	100%	1,444	20.40	100%	2,164

Elevation Range: 8400'
Soils: Loam
Precip: 20-30 inches/year

Mean air temp: 34-40 degrees F
Frost-free period: 40-80 days









Tiffany Gonzales <tiffanygonzales@utah.gov>

Fwd: Stream Alteration Permit Application

1 message

Daniel Hinckley <dhinckley@utah.gov>
To: Tiffany Gonzales <tiffanygonzales@utah.gov>

Thu, Oct 26, 2017 at 4:03 PM

Hi Tiffany,

I sent this application to Daren last month, but have not heard back regarding confirmation of receipt. Will you please follow up? The coding for the fee is on the 2nd page of the application.

Thank you for your help,
Dan

----- Forwarded message -----

From: **Daniel Hinckley** <dhinckley@utah.gov>
Date: Thu, Sep 7, 2017 at 5:56 PM
Subject: Stream Alteration Permit Application
To: Daren Rasmussen <darenrasmussen@utah.gov>

Hi Daren,

I have prepared the attached Stream Alteration Permit Application for Eccles Creek alongside SR-264 at MP 13.7. When you are able, will you please process the application?

Thanks,
Dan

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Daniel W. Hinckley, P.E.
East Area Engineer
UDOT Region 4
Cell 801-520-7386
E-mail dhinckley@utah.gov
udot.utah.gov

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UDOT Region 4
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 0264-001 StreamAltPermitApplication.pdf
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