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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

February 2, 2016

RE: Stream Channel Alteration No. 16-54-01SA
Tickville Wash and Unnamed Wash
Eagle Mountain City

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 **February 22, 2016**. 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,

for *Tiffany Gonzales*
Chuck Williamson, P.G.
Stream Alteration Specialist

Pc: Richard Clark - EPA
Corps of Engineers
Supervisor - U. S. Fish & Wildlife
Teresa Wilhelmsen - Regional Engineer
Matt Howard - Regional Wildlife Habitat Biologist
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 V# 30784
 Fee Rec. \$ 500.00 RJS
 Receipt # 16-00347

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 16-54-01SA
 (assigned by) _____ Corps _____ State Engineer _____

Applicant's Name (Last, First M.I. or entity if not an individual) Eagle Mountain City	Authorized Applicant Representative (if any) Jones and DeMille Engineering	Applicant's Telephone Number and Area Code (801) 789-6671
		Representative's Telephone Number and Area Code (435) 896-8266

Applicant's Address (Street, RFD, Box, Number, City, State, Zip)
Chris Trusty - Public Works Director
2565 N. Pony Express Parkway
Eagle Mountain, UT 84005

X: 417563.98 PROJECT LOCATION Y: 4468500.92

Quarter Section(s) SE	Section 20	Township 5S	Range 1W	Base & Meridian Salt Lake
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County Utah	Associated Watercourse or Watercourse to be Altered Tickville Wash	Check one: <input checked="" type="checkbox"/> Within City Limits <input type="checkbox"/> Outside City Limits List town or nearest town: Eagle Mountain
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Project location or address:
Northeast section of town, just north of Pony Express Parkway

Brief description of project including methods and equipment to be employed to complete the work:
 The proposed project is approximately 4 miles of a 16-inch PVC pipeline to convey drinking water for anticipated growth in the area. Existing customers would also benefit from the project. The pipeline would be constructed on city-owned land and easements, private property, and within the UDOT right-of-way. The entire extent of the proposed pipeline right-of-way has been previously disturbed. The trench will be 3-6 feet wide, and will be filled and graded to original contours. Riprap will be installed within the channels to protect the pipeline.

Purpose (justification) of project:
 Due to restrictions in the existing culinary water system, pressure and flow issues are occurring north of SR-73. These issues result in the system not meeting state service requirements. The project is proposed to provide culinary water to support the existing system and future growth in the area, and ensure that state service requirements are met.

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.
Single project

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

Cubic yards of material:	47 cubic yards dredge; 3.9 cubic yards riprap fill
Acreage or square footage of waters of the United States affected by the project:	210 square feet total
Source and type of fill material:	Commercial riprap
Length of stream that will be impacted below ordinary high water elevation:	12 feet total

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FEB 01 2016
 WATER RIGHTS
 SALT LAKE

Alternatives (other ways to accomplish project purpose):

No alternatives have been identified to deliver culinary water to the users in areas that need it.

Describe any proposed mitigation to offset impacts to the stream channel.

Riparian vegetation is very limited at these channels; both are deeply incised and ephemeral. Riprap is necessary to protect the pipeline from scour in future storm flows. No mitigation is proposed

Cultural resource impacts:

Are you aware of any cultural resources or any historic properties that will be impacted by the proposed project? Yes No
If Yes, please explain:

Has a cultural resource survey been conducted on the property where the proposed project is to occur? Yes No
If Yes, please briefly explain the survey results:

List other authorizations required by Federal, state, or local governments (i.e.: National Flood Insurance Program), and the status of those authorizations.

The Utah Division of Drinking Water prepared a categorical exclusion to authorize the proposed project.

Estimated starting date of project:

March 1, 2016

Estimated completion date:

April 15, 2016

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. 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 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 description of current and expected post-activity sediment movement and deposition patterns in and near the activity area.
- A description of current and expected post-activity habitat conditions, including the presence of fish, wildlife and plant species in the activity area.
- An assessment of the likely impact the work would have on upstream, downstream and cross-stream properties (at a minimum the area assessed should extend from the nearest upstream bend to the nearest downstream bend of the watercourse). Specifically, discuss how the project will impact the following:
 - Will the activity accelerate deposition or erosion?
 - Will impacts to sensitive species or habitats result from a change in suspended sediment load or turbidity?
 - Will the activity affect the diversity of the channel by eliminating in-stream habitat, meanders, or gravel bars?
 - Will the activity result in a shift in the main flow patterns?
- A planting plan which involves the use of native riparian plants, unless the applicant demonstrates it is not appropriate or not practicable.

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 Janna Jorgensen Date: 1-26-16

I hereby certify that Jones & DeMille Engineering is acting as my agent on this project.

Agent's address and telephone number: 1535 S. 100 W. Richfield, UT 84701

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. Checks should be made out to the Utah Division of Water Rights.

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.

Additional Information for Tickville Wash Stream Alteration Permit

Tickville Wash is: ephemeral

Site elevation: 4,820 feet asl

Site description:

- Vegetation is predominantly sagebrush and rabbitbrush, with scattered grasses.
- The proposed pipeline alignment is within a utility corridor that includes gas lines and power transmission lines. The entire right-of-way was previously disturbed for installation of these utilities.
- Wildlife in the area has been previously displaced; suitable habitat does not occur within or near the project area. No federally listed species are anticipated to be impacted by the proposed project.
- There is no potential for aquatic species or spawning due to the ephemeral nature of these channels.
- Due to the disturbance within the proposed right-of-way, there would be no impacts to cultural resources as a result of implementation of the proposed project.

Project description:

- The trench will be up to six feet wide, and will cross the drainages at close to 90 degree angles.
- Riparian vegetation does not occur within the project area.
- Excavated material will be replaced in the trench and graded to natural contours.
- What equipment is being used? (e.g., track hoe or bobcat? Dump truck up to the water edge?)
 - What kind of noise impact potential to YBC?
- What structures are being constructed? Are they in the water or above?
- Vegetation clearing will occur in March, prior to the onset of migratory bird breeding season.
- The following BMPs will be implemented:
 - Work will occur from the top of the banks
 - Work will occur during no-flow periods
 - The project area will be accessed using existing roads and utility rights-of-way
 - Equipment fueling will occur away from water
 - Equipment will be clean and functional

Categorical Exclusion for the Eagle Mountain City North Area Transmission Pipeline

Project Location

The proposed project is located at the north end of Eagle Mountain in Utah County, west of Utah Lake. The pipeline alignment runs northeast from Pony Express Parkway (7200 N) to West Cedar Fort Road (SR-73) for about 1.6 miles, then follows West Cedar Fort Road to the west approximately 2.6 miles (see the attached map).

Purpose and Need

Due to restrictions in the existing culinary water system, pressure and flow issues are occurring north of SR-73. These issues result in the system not meeting state service requirements. The project is proposed to provide culinary water to support the existing system and future growth in the area, and ensure that state service requirements are met.

Project Description

The proposed project is approximately 4 miles of a 16-inch PVC pipeline to convey drinking water for anticipated growth in the area. Existing customers would also benefit from the project.

The pipeline would be constructed on city-owned land and easements, private property, and within the UDOT right-of-way. Numerous existing utilities occur along the extent of the proposed pipeline, within the proposed right-of-way. These utilities include gas pipelines, buried communication lines, and sewer pipelines. The entire extent of the proposed pipeline right-of-way has been previously disturbed.

Potential Resource Impacts

Due to the existing utilities and previous disturbance, the potential for resource impacts associated with the proposed project is low.

Wildlife

Wildlife in the area has been previously displaced; suitable habitat does not occur within or near the project area. No federally listed species are anticipated to be impacted by the proposed project.

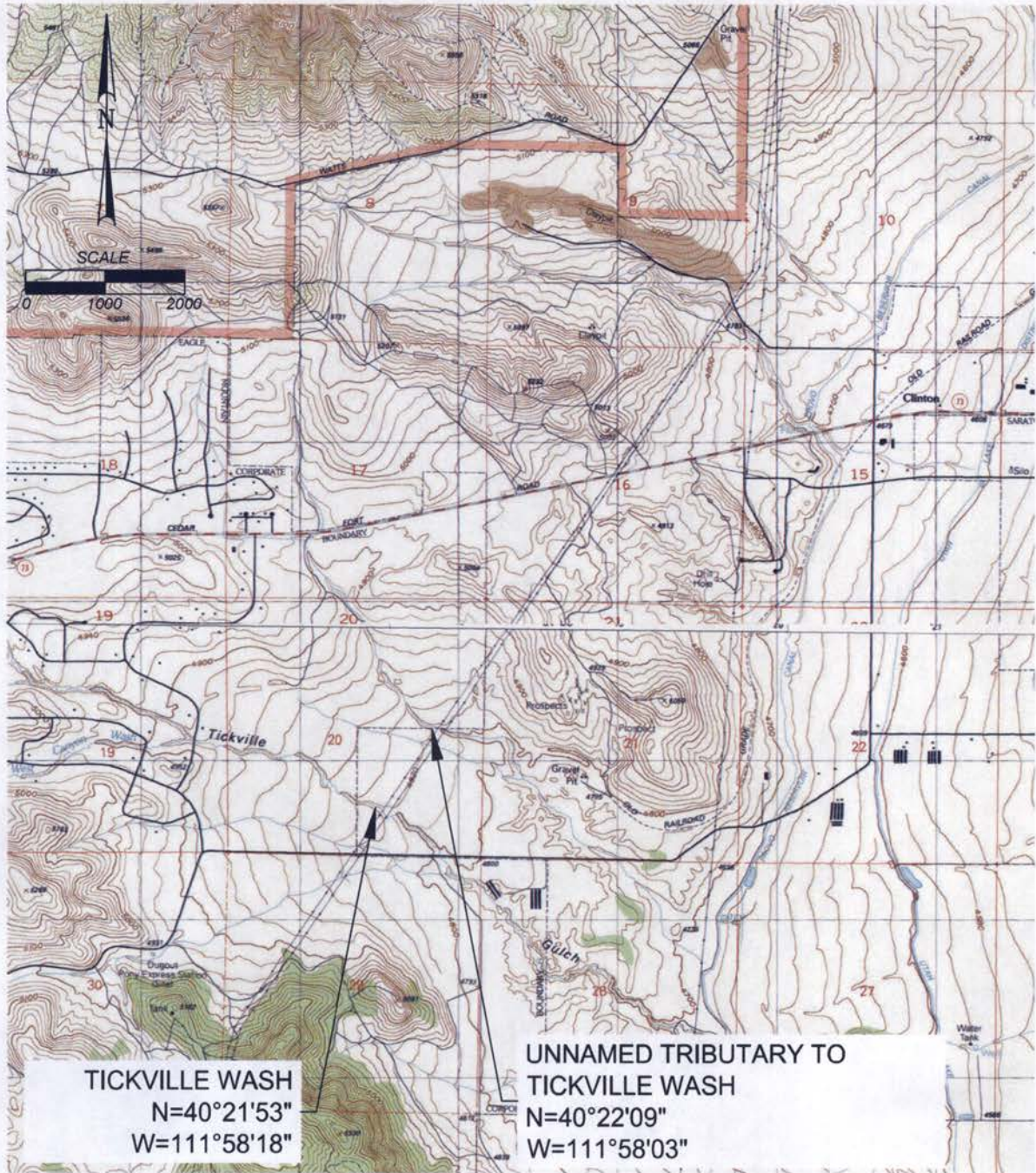
Cultural Resources

Due to the disturbance within the proposed right-of-way, there would be no impacts to cultural resources as a result of implementation of the proposed project.

Conclusion

This project meets the following criteria for a categorical exclusion:

- 1.A proposed water line will be placed in a roadway(s) and/or rights-of-ways where existing pipes, telephone wires, cables, or other facilities have previously been installed.

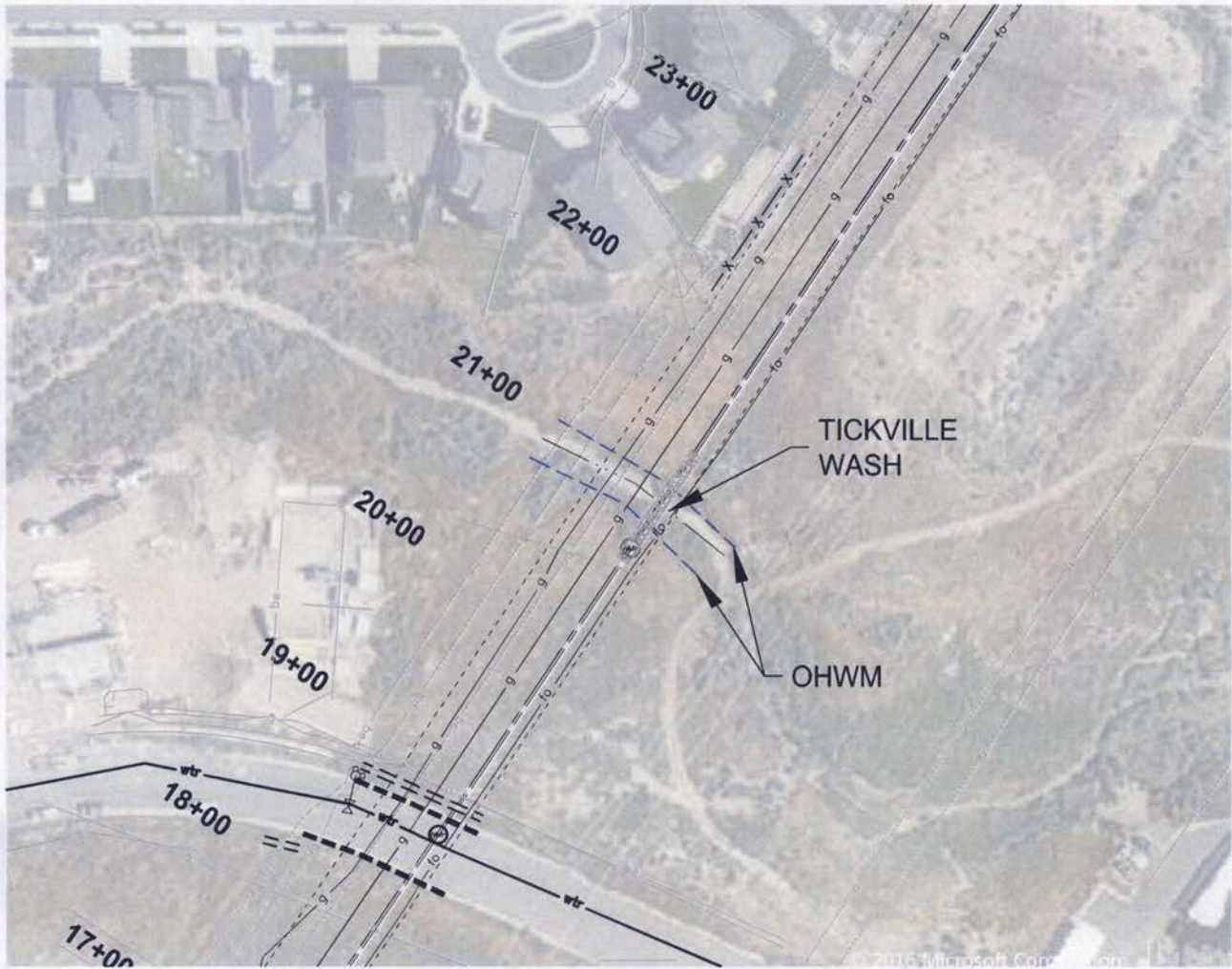
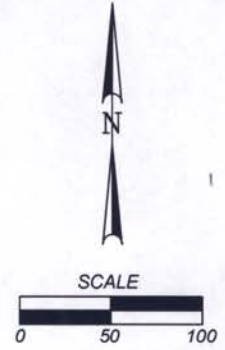


PROJECT LOCATION MAP

TICKVILLE WASH STREAM
 ALTERATION PERMIT 1506-057
 APPLICANT: EAGLE MOUNTAIN
 SHEET NO. 1
 SEC. 20 T5S R1W
 STA. 20+95.00
 DATE: 16/1/18

QUANTITIES

EXISTING AREA OF OHWM AFFECTED	120 SQ FT
LINEAR LENGTH OF CHANNEL IMPACTED	6 FT
WIDTH OF CHANNEL IMPACTED	20 FT
DREDGE VOLUME UNDER OHWM	27 CU YD
RIPRAP VOLUME UNDER OHWM	2.2 CU YD

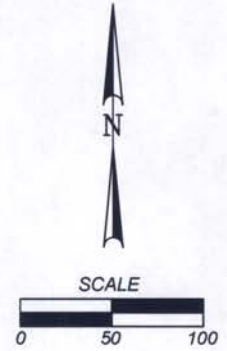


PROJECT VICINITY MAP

TICKVILLE WASH STREAM
ALTERATION PERMIT 1506-057
APPLICANT: EAGLE MOUNTAIN
SHEET NO. 2
SEC. 20 T5S R1W
STA. 20+95.00
DATE: 16/1/18

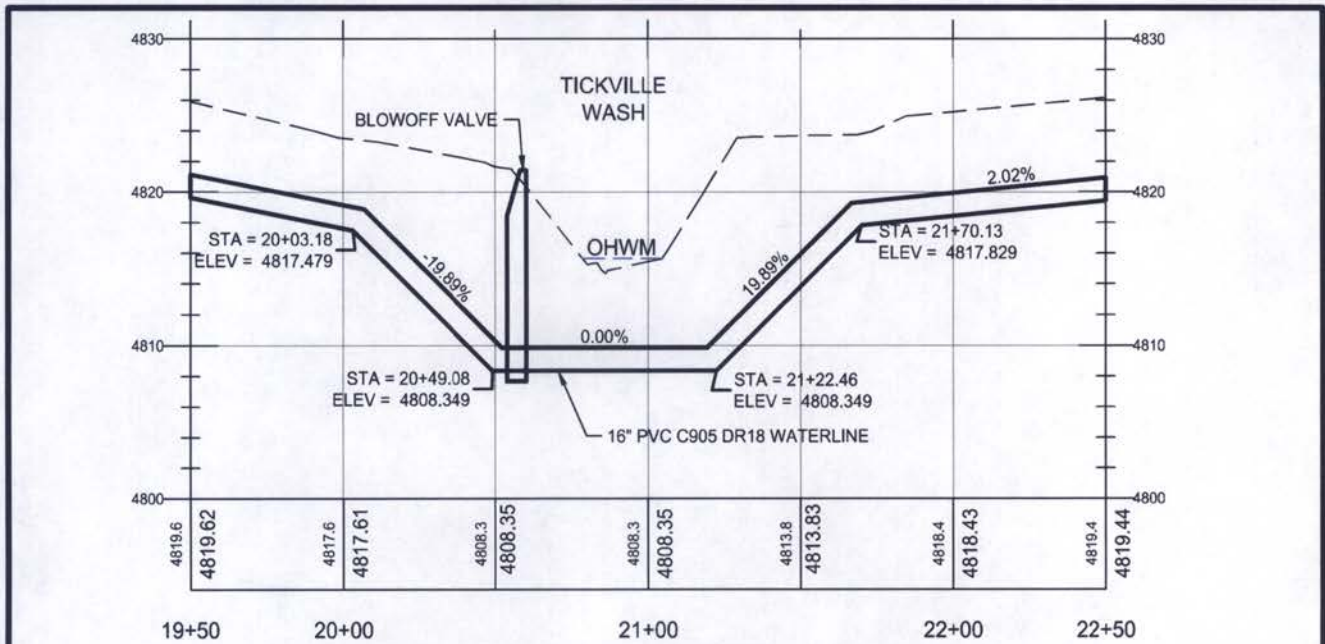
QUANTITIES

EXISTING AREA OF OHWM AFFECTED	90 SQ FT
LINEAR LENGTH OF CHANNEL IMPACTED	6 FT
WIDTH OF CHANNEL IMPACTED	15 FT
DREDGE VOLUME UNDER OHWM	20 CU YD
RIPRAP VOLUME UNDER OHWM	1.7 CU YD

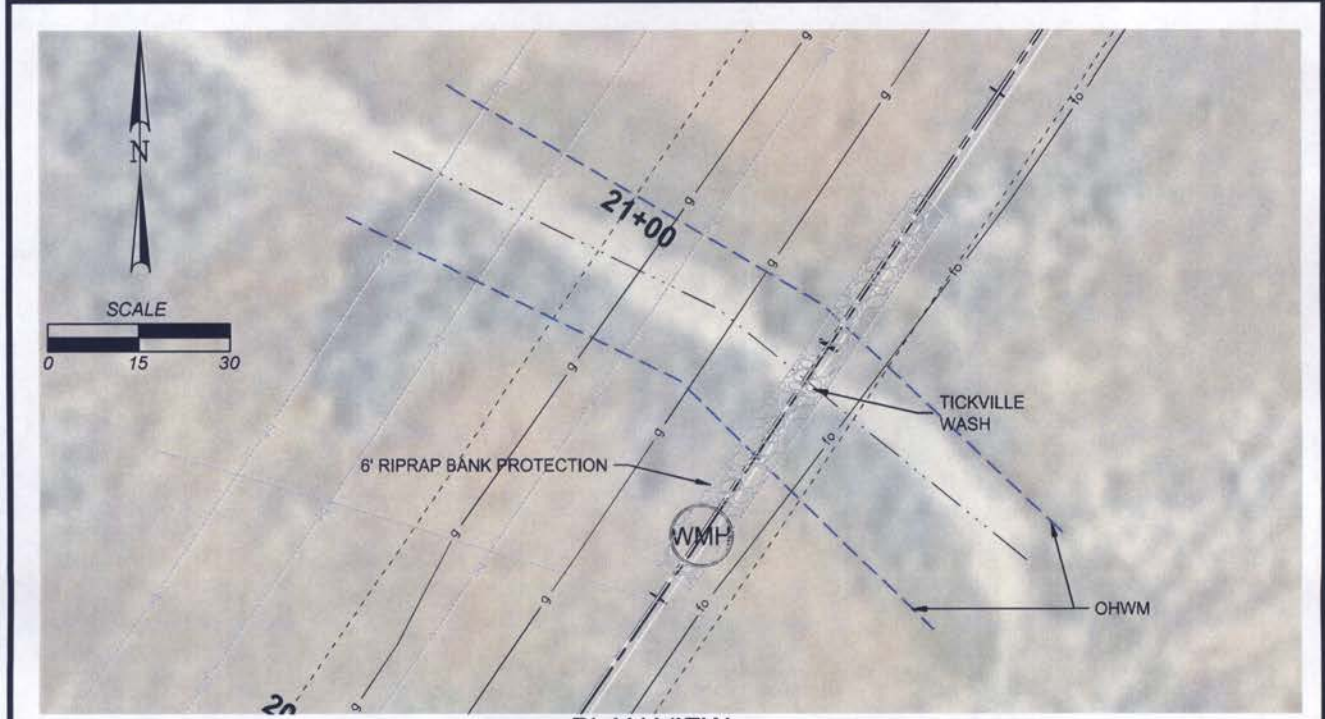


PROJECT VICINITY MAP

UNNAMED WASH STREAM
ALTERATION PERMIT 1506-057
APPLICANT: EAGLE MOUNTAIN
SHEET NO. 2B
SEC. 20 T5S R1W
STA. 41+00.00
DATE: 16/1/18



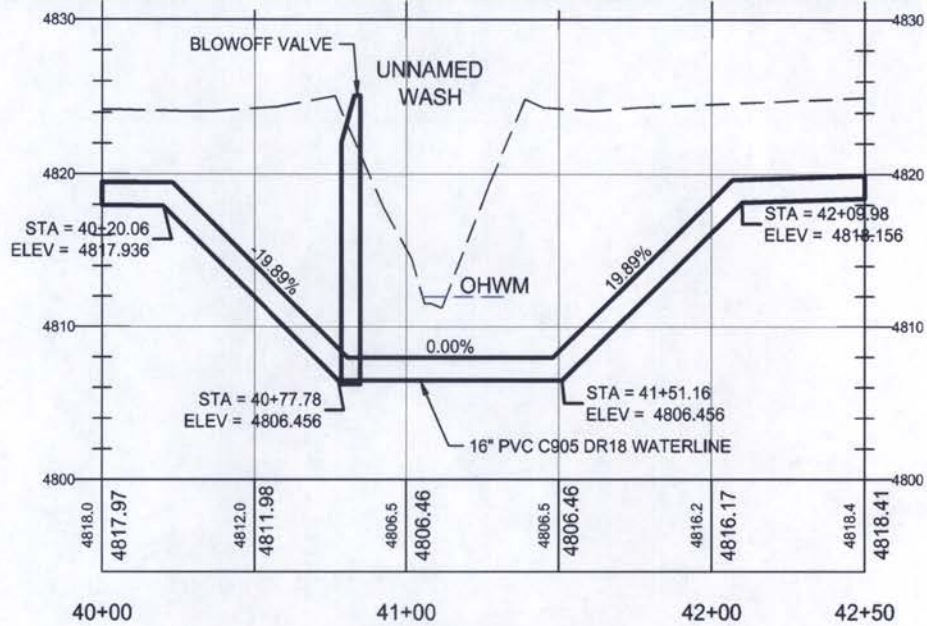
SECTION VIEW



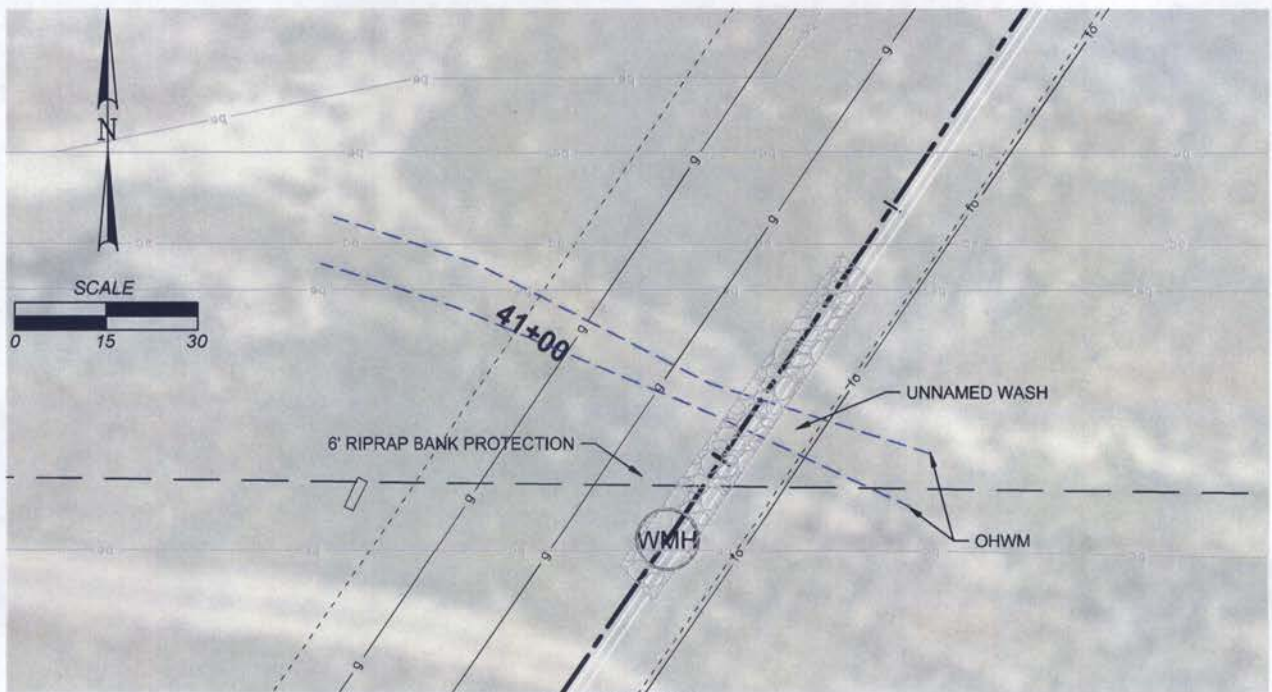
PLAN VIEW

PLAN VIEW & SECTION DETAILS

TICKVILLE WASH STREAM
ALTERATION PERMIT 1506-057
APPLICANT: EAGLE MOUNTAIN
SHEET NO. 3
SEC. 20 T5S R1W
STA. 20+95.00
DATE: 16/1/18



SECTION VIEW



PLAN VIEW

PLAN VIEW & SECTION DETAILS

TICKVILLE WASH STREAM
ALTERATION PERMIT 1506-057
APPLICANT: EAGLE MOUNTAIN
SHEET NO. 3B
SEC. 20 T5S R1W
STA. 41+00.00
DATE: 16/1/18



***EXISTING SITE
PHOTOS***

TICKVILLE WASH STREAM
ALTERATION PERMIT 1506-057
APPLICANT: EAGLE MOUNTAIN
SHEET NO. 4
SEC. 20 T5S R1W
STA. 20+95.00
DATE: 16/1/18



***EXISTING SITE
PHOTOS***

UNNAMED WASH STREAM
ALTERATION PERMIT 1506-057
APPLICANT: EAGLE MOUNTAIN
SHEET NO. 4B
SEC. 20 T5S R1W
STA. 41+00.00
DATE: 16/1/18



**Jones & DeMille
Engineering**

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Price, UT 84501
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Roosevelt, UT 84066
435.722.8267

Broadstone Building #3
765 East 340 South, Suite 104
American Fork, UT 84003
801.692.0219

435 East Tabernacle, Suite 302
St. George, UT 84770
435.986.3622

TRANSMITTAL

January 26, 2016

TO: Utah Division of Water Rights
Attn: Chuck Williamson
1594 W North Temple, Ste. 220
P.O. Box 146300
Salt Lake City, UT 84114-6300

PROJECT: Eagle Mountain Waterline

PROJECT NO.: 1506-057

ENCLOSED PLEASE FIND THE FOLLOWING:

Check # 30784 for \$500.00
Stream Alt Permit Application
Additional Information (1 page)
Categorical Exclusion for Division of Drinking Water (1 page)
Exhibits (7 pages)

REMARKS:

For review and processing. If you have any questions, please feel free to call me.

Sincerely,

JONES & DeMILLE ENGINEERING, INC.

By: Jenna Jorgensen, Environmental Coordinator

cc: 1506-057
chronos