GARY R. HERBERT
*Governor*
GREG BELL
*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 21, 2013

RE: Stream Channel Alteration No. 13-43-02SA
Wells Draw
Duchesne County

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 prior to **March 13, 2013**. 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
Daren Rasmussen, P.G.
Stream Alteration Specialist

Pc: Richard Clark - EPA
Corps of Engineers
Supervisor - U. S. Fish & Wildlife
Bob Leake - Regional Engineer
Miles Hanberg - Regional Wildlife Habitat Manager
Carmen Bailey - Aquatic Habitat Coordinator
Bill Damery - DEQ, Water Quality Division
Laura Ault - Forestry Fire & State Lands
Kelly Beck - RDCC Coordinator
State Parks & Recreation
Lori Hunsaker - State History
W. D. Robinson - Department of Agriculture
Judy Watanabe - CEM

1594 West North Temple, Suite 220, PO Box 146300, Salt Lake City, UT 84114-6300
telephone (801) 538-7240 • facsimile (801) 538-7467 • TTY (801) 538-7458 • *www.waterrights.utah.gov*

UTAH DNR WATER RIGHTS

Rec. by SC
Fee Rec. $500
Receipt # 13-000615

# 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 (assigned by): _____ / 13-43-02SA
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 |
|---|---|---|
| Duchesne County | Jones & DeMille Engineering, Inc. | (435) 738-1144 |
| | | Representative's Telephone Number and Area Code (435) 722-8267 |

Applicant's Address (Street, RFD, Box, Number, City, State, Zip)

Duchesne County Special Service District #2
165 South Center, Duchesne, UT 84021

X: 577730.31 **PROJECT LOCATION** Y: 4442581.19

| Quarter Section(s) | Section | Township | Range | Base & Meridian |
|---|---|---|---|---|
| NE1/4 SE1/4 | 15 | 4S | 2W | Uintah US |

| County | Associated Watercourse or Watercourse to be Altered | Check one: ☐ Within City Limits ■ Outside City Limits<br>List town or nearest town: |
|---|---|---|
| Duchesne | Wells Draw | Myton, UT |

Project location or address:

Pariette Road, approx. 4.23 miles South from HWY 40; From Google Earth: 40° 07' 54.13" N and 110° 05' 17.50" W; Project Station 95+50

Brief description of project including methods and equipment to be employed to complete the work:

This culvert project is a part of a large roadway reconstruction project that includes multiple drainage improvements. This location will replace two 24-inch culverts that have a history of plugging and being undersized for large storm events. The proposed drainage structure includes four 95"x67" elliptical arch pipes with concrete headwalls and wingwalls, with riprap placed below the downstream outlet. Pipe will be installed with standard excavation equipment including trackhoe/backhoe, front end loader, and compaction equipment. Concrete will be formed and cast-in-place in dry conditions.

Purpose (justification) of project:

The drainage and roadway improvements will generally improve drainage, increase capacity of culvert system, enhance the roadway geometry to a reasonable and necessary level, and improve the overall public safety and function of the roadway. Historic flooding of the roadway and adjacent properties in this location is justification for replacement of existing culverts prior to reconstruction of the roadway.

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.

The project is included in the County Road 33 Reconstruction project (see attached Location Map) and is to be installed as part of the drainage improvements prior to roadway reconstruction.

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

| | |
|---|---|
| Cubic yards of material: | 157.2 CY of Riprap Material |
| Acreage or square footage of waters of the United States affected by the project: | Drainage Area = approx. 47,700 acres |
| Source and type of fill material: | Engineer approved clean riprap stone |
| Length of stream that will be impacted below ordinary high water elevation: | Approximately 90 feet (70' pipe) |

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Revd 21 Feb 2013 :DKR

Alternatives (other ways to accomplish project purpose):

There is no other feasible alternative that would maintain functionality and safety of the public roadway.

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

Mitigation will include a riprap apron installed downstream of culverts to direct flow into original channel and protect from scour during high flows. No further bank stabilization measures will be taken. This stream channel is considered intermittent, with flows occurring after storm events, snow melt, or irrigation runoff.

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.

| Estimated starting date of project: | Estimated completion date: |
|---|---|
| March 29, 2013 | September 1, 2013 |

**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 _____ Date: 2-13-2013

I hereby certify that Jones and DeMille Engineering (Michael Hawley) is acting as my agent on this project.

Agent's address and telephone number: 187 West Lagoon Street (45-13) Roosevelt UT 84066 Phone: 435.722.8267

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## 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.

## 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. |

Jones & DeMille Engineering

1535 South 100 West
Richfield, UT 84701
435.896.8266
www.jonesanddemille.com

# TRANSMITTAL

**DATE:** February 5, 2013

**TO:** Department of Natural Resources
Division of Water Rights
1594 West North Temple, Suite 220
Salt Lake City, UT 84114-6300

**ATTENTION:** Daren Rasmussen

**PROJECT:** Duchesne County Special Service District #2 – County Road 33 Reconstruction

**PROJECT NO.:** 1112-027

**ENCLOSED PLEASE FIND THE FOLLOWING:**

Stream Alteration Permits (2) – Wells Draw STA 95+50 and Un-Named Stream STA 117+65

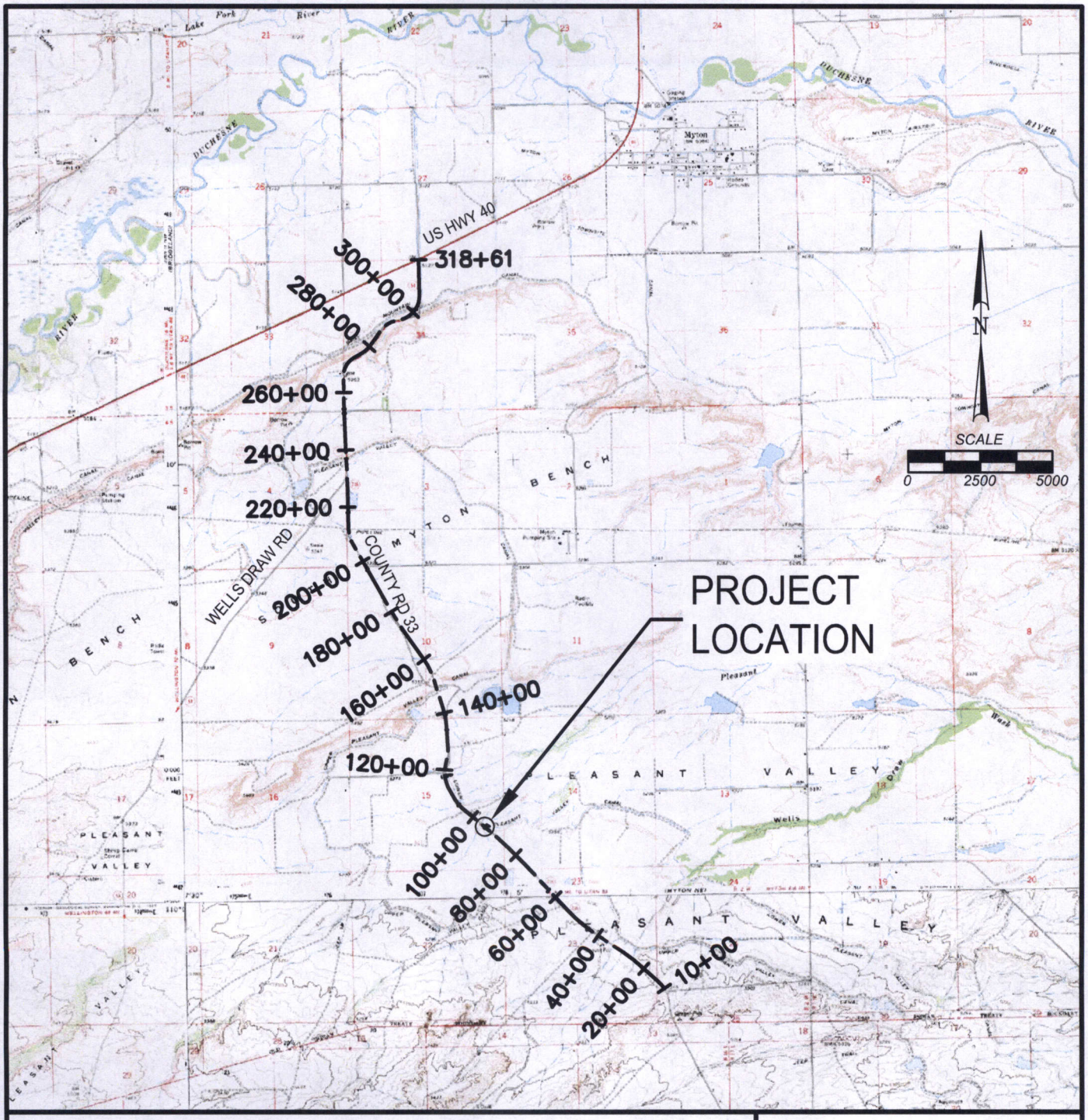
**REMARKS:**

Please find the attached Joint Permit Application Forms with associated Location Maps, Details, and Photos sheets. Feel free to contact Michael Hawley at Jones and DeMille Engineering at 435.722.8267 or by email at michael@jonesanddemille.com.

Thank you.

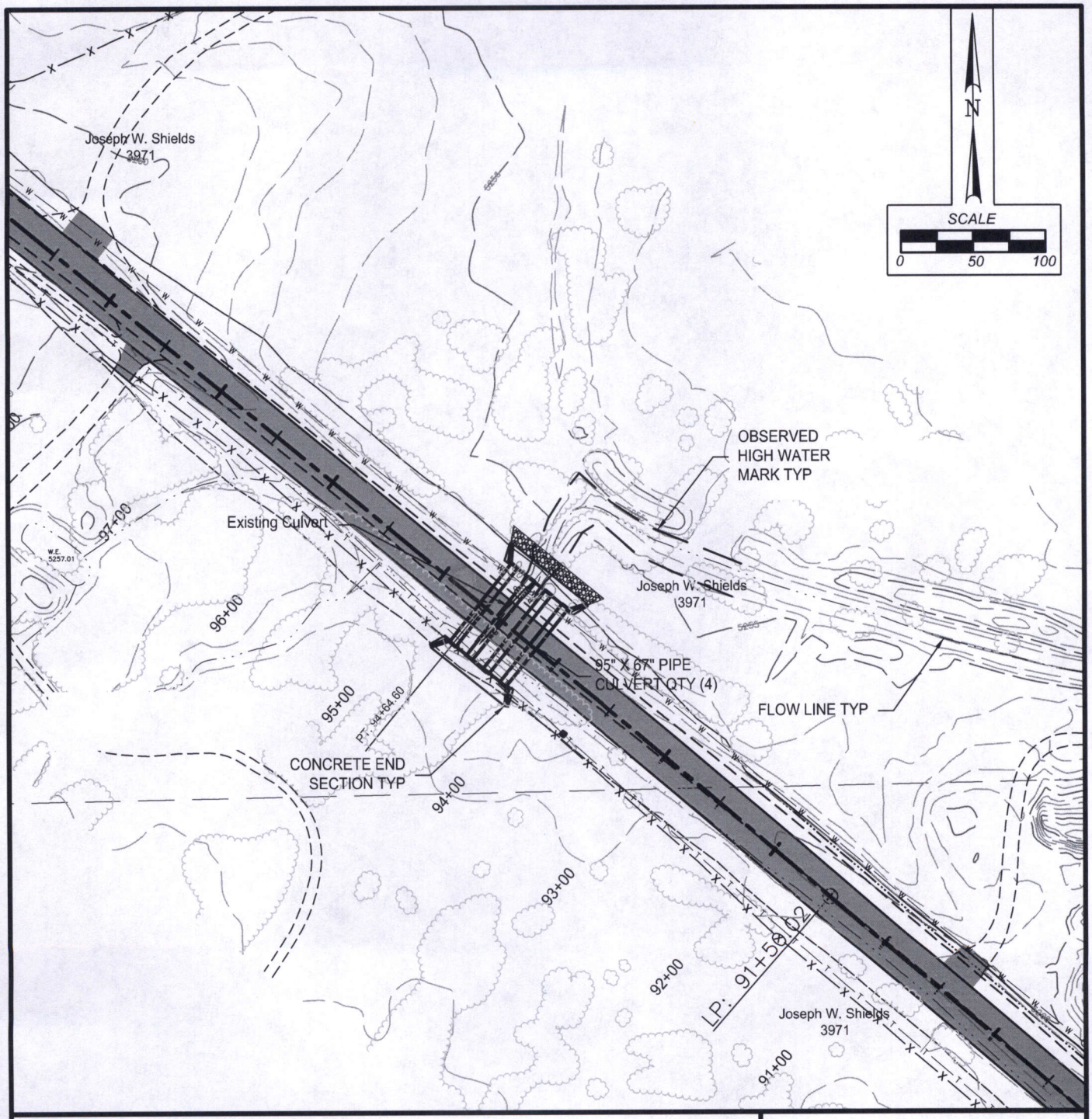
**BY:** Michael Hawley, PE

**cc:** Carrie Mascaro, Duchesne SSD #2



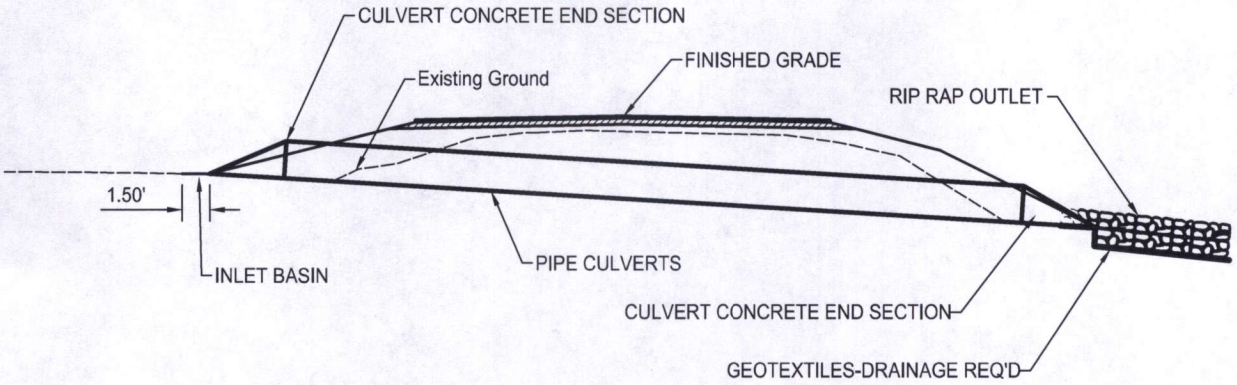

# PROJECT LOCATION MAP

PIPE CULVERTS ON BRANCH OF WELLS DRAW (INTERMITTENT)
APPLICANT: DUCHESNE COUNTY
SHEET NO. 1
SEC. 15, T. 4S., R. 2W., U.S.B.&M
STA: 95+50
DATE: JANUARY 21, 2013

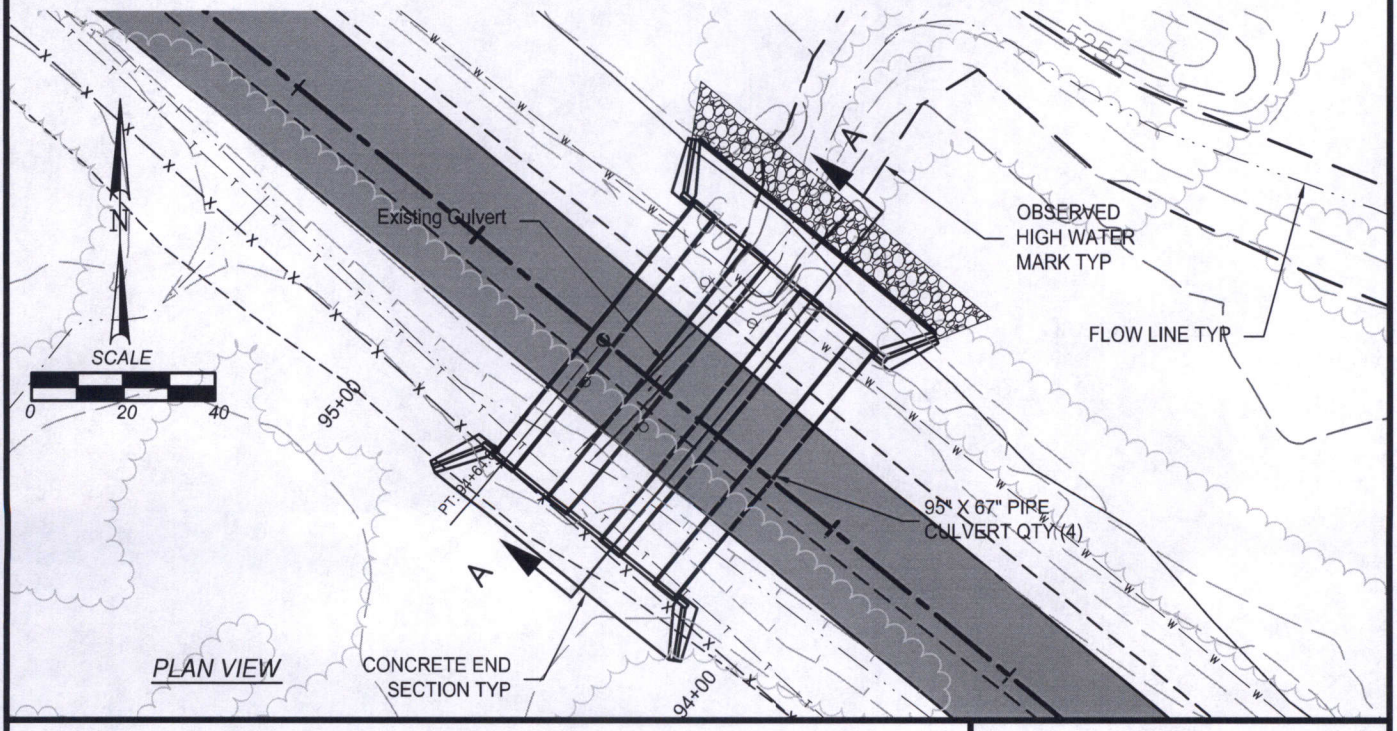



# PROJECT VICINITY MAP

PIPE CULVERTS ON BRANCH OF WELLS DRAW (INTERMITTENT)
APPLICANT: DUCHESNE COUNTY
SHEET NO. 2
SEC. 15, T. 4S., R. 2W., U.S.B.&M
STA: 95+50
DATE: JANUARY 21, 2013




*SECTION A-A*




*PLAN VIEW*

# PLAN VIEW & SECTION DETAILS

PIPE CULVERTS ON BRANCH OF WELLS DRAW (INTERMITTENT)
APPLICANT: DUCHESNE COUNTY
SHEET NO. 3
SEC. 15, T. 4S., R. 2W., U.S.B.&M
STA: 95+50
DATE: JANUARY 21, 2013

*UPSTREAM OF CULVERT*

*DOWNSTREAM OF CULVERT*

# PHOTOS

PIPE CULVERTS ON BRANCH OF WELLS DRAW (INTERMITTENT)
APPLICANT: DUCHESNE COUNTY
SHEET NO. 4
SEC. 15, T. 4S., R. 2W., U.S.B.&M
STA: 95+50
DATE: JANUARY 21, 2013