

## **Introduction**

On April 25, 2012, Plains Pipeline, L. P. (Plains), received a Certificate of Corridor Compatibility (No. 133) and a Route Permit (No.143) for the Public Service Commission (Commission) Case No. PU-12-040. This pertains to the construction of the Nelson Take-Off to Ross Pipeline Project (Project), a crude oil pipeline, located in Mountrail County, North Dakota. As stated under North Dakota Century Code, Section 49-22-07, a utility may not begin construction of a transmission facility in the state without first having obtained a Route Permit. The facility must be constructed, operated, and maintained in conformity with the permit and any terms, conditions, or modifications of the permit.

On August 15, 2012, the Project was inspected by an independent third party representative of the Commission. The Project was found to be in full compliance with all applicable permits. However, the inspection report included a recommendation to modify the approved Little Knife River (LKR) waterbody crossing and associated workspace to avoid impacts to the wetland adjacent to this waterbody. This filing is in response to the request.

Plains is proposing to modify the previously approved LKR waterbody crossing. This request will result in a modification of the authorized alignment and Route Permit. The waterbody will be crossed utilizing the horizontal directional drill (HDD) method which is a low impact technique that minimizes ground disturbance. The proposed modification is an improvement from the previously approved design as it would avoid ground disturbance to the adjacent wetland/waterbody feature and has been endorsed by affected landowner (see Appendix F Landowner Communication).

The design of this HDD crossing includes multiple foreign line crossings that encroach into both the approved and proposed workspace. Hess is the owner and operator of these pipelines and has requested that Plains cross their pipelines in this location by utilizing the HDD method. The proposed alignment consolidates the LKR waterbody crossing and multiple foreign line crossings into a single HDD.

There is no practicable alternative to the proposed LKR route modification. As detailed by this filing, the proposed alignment would result in route modification entailing an offset from the approved centerline by approximately 150 feet to the north for an approximate length of 1,450 feet. As proposed all ground disturbing activities would occur within the previously approved Corridor. The proposed route modification would result in all but approximately 280 feet of the alignment being sited within the previously approved Corridor as depicted in the attached engineer drawings and maps (See Appendix A Engineering Drawings and Appendix B Project Maps).

Case No PU-12-040  
Plains Pipeline, L.P.  
Crude Oil Pipeline – Mountrail County  
Siting Application – Route Amendment

Plains commissioned environmental surveys of the project area for project planning purposes. The survey corridors were expanded beyond normal construction workspace requirements to allow for potential route deviations that may arise during construction. The initial surveys immediately west of the LKR extended 480 feet in width, however to east the corridor was reduced to a width of 100 feet. The imbalance in the surveyed area coupled with the revised orientation of the HDD crossing to avoid wetland impacts has resulted in an alignment that includes a small portion of the route that would fall outside of the previous surveyed corridor.

Plains commissioned cultural and natural field surveys of the portion of the proposed alignment not previously surveyed. Additional field surveys were completed on September 14, 2012; these surveys recorded the presence or absence of natural or cultural resources within this 3.4 acre parcel. The extent of the survey coverage of this irregularly shaped parcel has been depicted in the attached maps (See Appendix B Project Maps). Survey results are attached (See Appendix D Natural Resource Report and Appendix E Cultural Resource Report).

Field studies were utilized to facilitate the siting of the proposed HDD entry and exit points to ensure that ground disturbance to the wetlands would be avoided. The modification of the route and associated workspace would fully address the area of concern as identified by the Commission's project site audit.

Plains has completed consultations with the North Dakota State Historical Preservation Office (SHPO). On September 19, 2012, the SHPO concurred with the survey report conclusion of "No Significant Sites Affected" and "No Historic Properties Affected" by the proposed modification of the project (See Appendix C Consultation).

This request will not result in any modification to previously reported facility type, size or design including above ground facilities.

This request shall conform to all previously approved mitigation measures as well as right of way preparation and reclamation measures.

This request shall not impact any Exclusion or Avoidance Areas and shall conform with the Siting Criteria as previously reported.

Landowner approval has been received from the affected party.

## **Project Location**

The proposed route amendment occurs between MP 3.8 and MP 4.2 which is located in the following section of Mountrail County, North Dakota:

- T156N, R91W, Sec 32, W ½

## **Route Amendment**

Plains requests Commission approval of a minor route modification to accommodate the Commission's field inspector's recommendation to modify the LKR HDD entry and exit points to an upland location. In addition the proposed crossing modification also incorporates a multi-line foreign line crossing and accommodates the Operators request to cross these lines utilizing the HDD method. Please refer to Appendix A Engineer Drawings for additional details. The proposed route deviation includes:

- Approximately a 150 foot offset of the approved alignment, to include consistent and equal offsets to:
  - Construction right of way; and
  - Permanent right of way.
- Length of route modification:
  - Approximately 1,450 feet of pipeline to be installed by HDD technique.
    - Beginning at Station 203+00
    - Ending at Station 217+46

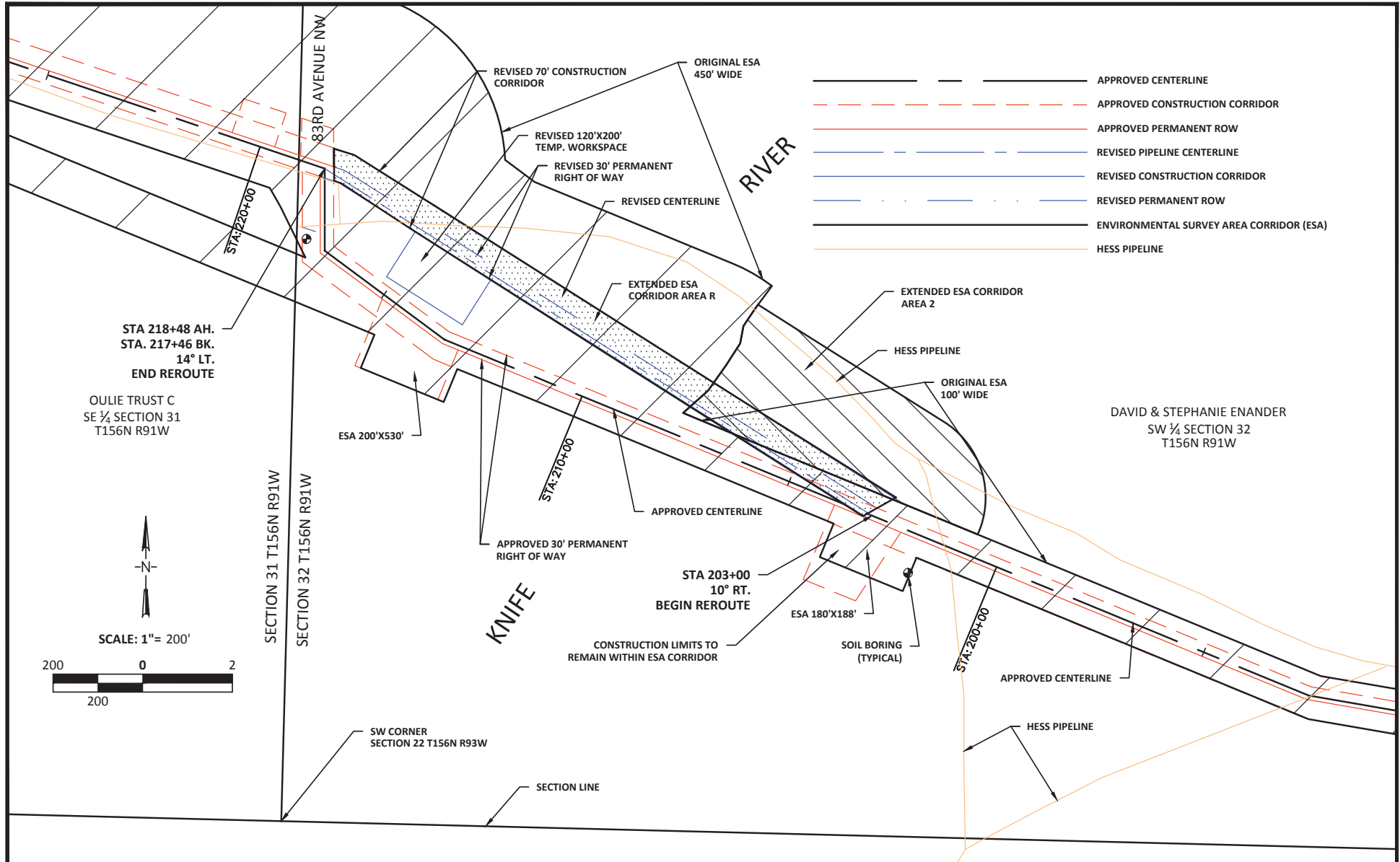
## **Route Analysis and Findings**

The requested route modification and all associated workspace will occur entirely within the area previously and recently surveyed for natural and cultural resources. The requested route modification shall not result in new or additional impacts to natural or cultural resources and shall conform with the results and conclusions as previously reported.

## **Appendices:**

- Appendix A: Engineering Drawing
- Appendix B: Reroute Maps
- Appendix C: Consultations
- Appendix D: Natural Resource Report
- Appendix E: Cultural Resource Report
- Appendix F: Landowner Communication
- Appendix G: Certification Statement


Appendix A  
Engineering Drawing



SCALE	HORZ 1"=200'	VERT
DRN.	RSS	BK.
CHK.	PAGE:	DATE: 9-10-12

REVISIONS	

**INBERG-MILLER ENGINEERS**



124 East Main Street  
Riverton, WY 82501  
307-856-8136

1120 East C Street  
Casper, WY 82601  
307-577-0806

350 Parsley Boulevard  
Cheyenne, WY 82007  
307-635-6827

257 Alan Road  
Powell, WY 82435  
307-754-7170

193 Flaming Gorge Way  
Green River, WY 82935  
307-875-4384

**PLAINS ALL AMERICAN PIPELINE, L.P.**

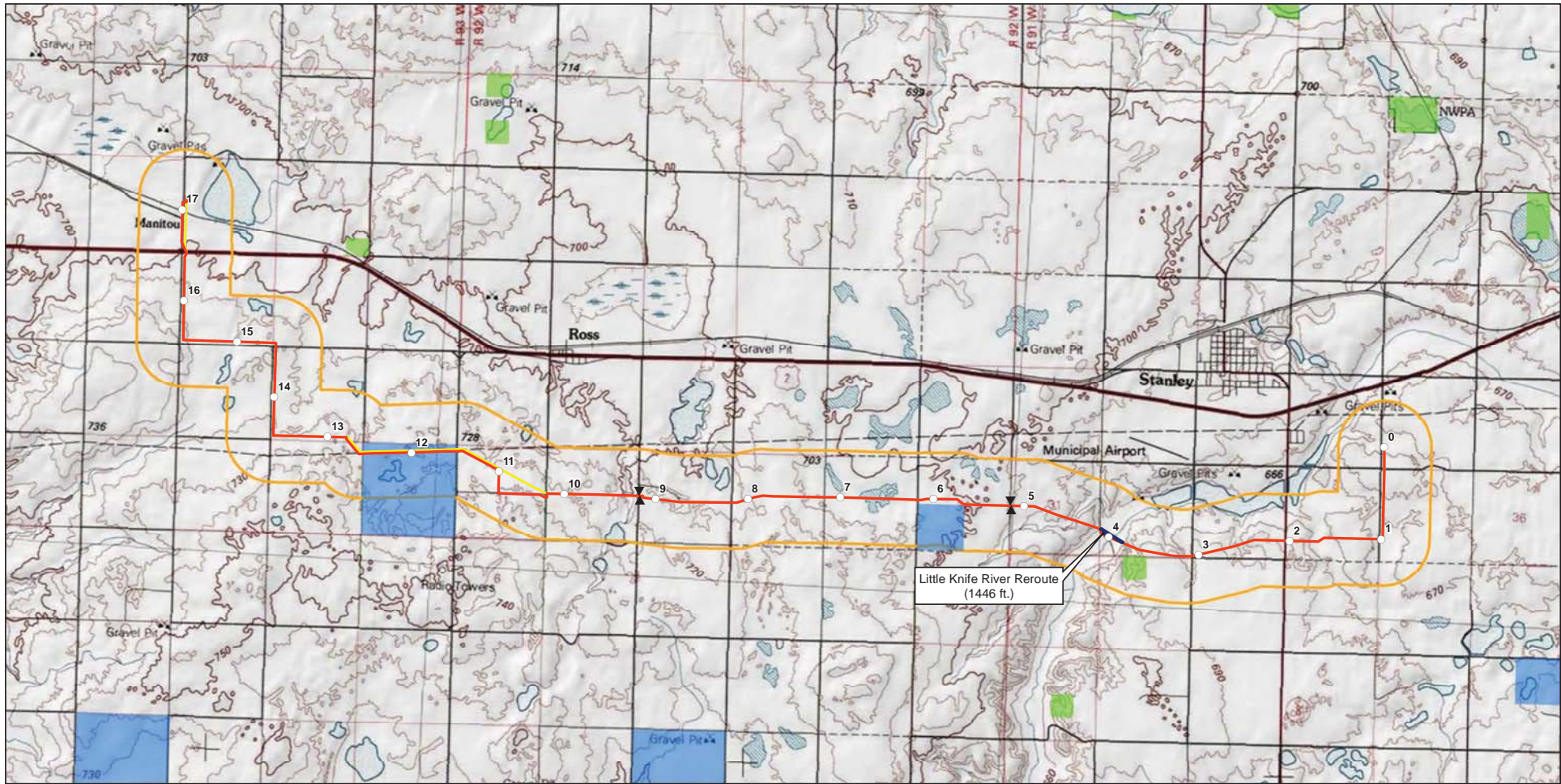
**KNIFE RIVER HDD MOUNTRAIL COUNTY, ND**








SHEET **1** OF **1**

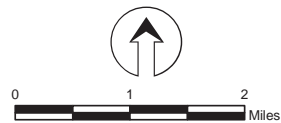
Any use, reuse, or CADU adaptation of this drawing other than for the specific purpose intended, by anyone, without written authorization from the engineer, will be at the Client's risk and full legal responsibility.

# Appendix B

## Reroute Maps



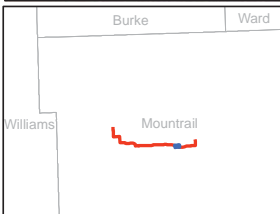
-  Valve
-  Corridor (1-mile)
-  Little Knife River Reroute (1446 ft.)
-  Federal Land
-  Final Proposed Pipeline Centerline
-  State Land
-  Nelson-Ross Mainline (2/6/2012)





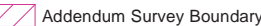


**Figure M1**  
**Nelson to Ross**  
**Amendment to Application**  
**for Route Permit**

**Overview Map**



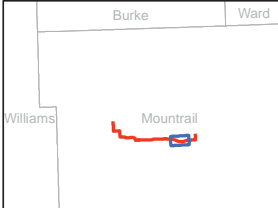
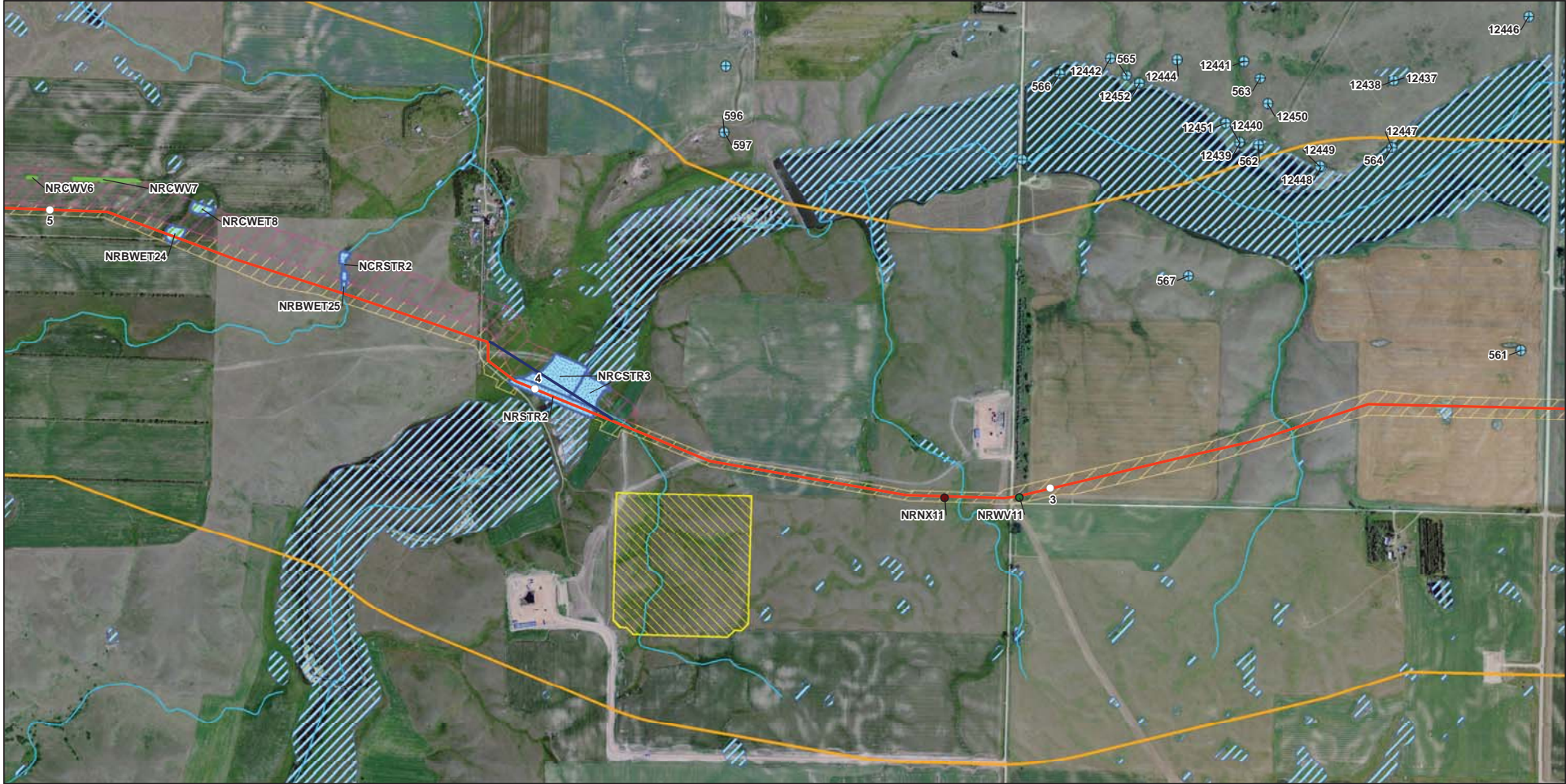


-  Valve
-  Little Knife River Reroute (1446ft.)
-  Final Proposed Pipeline Centerline
-  Survey Boundary
-  Addendum Survey Boundary



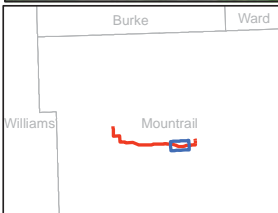
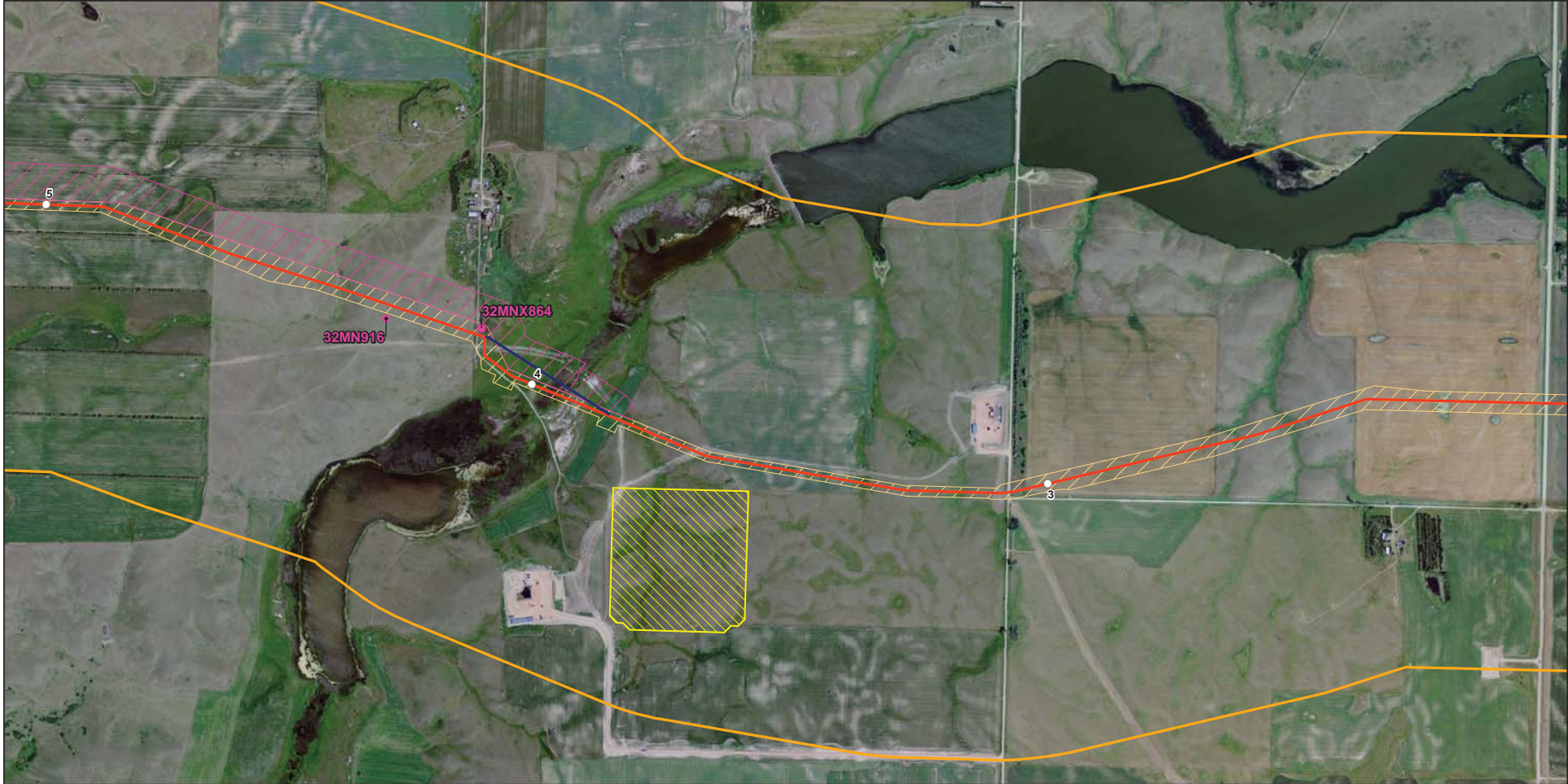
**Nelson to Ross  
Amendment to Application  
for Route Permit**



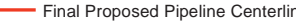

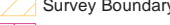





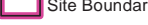
**Little Knife River Survey Detail**



Valve	Federal Land	Noxious
Little Knife River Reroute (1446ft.)	State Land	Wetland
Final Proposed Pipeline Centerline	Waterbody	Woody Vegetation
Nelson-Ross Mainline (2/6/2012)	NWI Wetland	Noxious Weeds
Survey Boundary	NDWC Well	Streams
Addendum Survey Boundary	Wetland	Woody Vegetation
Corridor (1-mile)		

**Figure SC-03**  
**Nelson to Ross**  
**Amendment to Application**  
**for Route Permit**  
  
**Siting Criteria**



-  Valve
-  Little Knife River Reroute (1446ft.)
-  Final Proposed Pipeline Centerline
-  Nelson-Ross Mainline (2/6/2012)
-  Survey Boundary
-  Addendum Survey Boundary
-  Corridor (1-mile)
-  Federal Land
-  State Land
-  Isolated Find
-  Site Boundary





**Figure SC-CR-03  
Nelson to Ross  
Amendment to Application  
for Route Permit**

**Siting Criteria**

# Appendix C

## Consultations



**STATE  
HISTORICAL  
SOCIETY  
OF NORTH DAKOTA**

Jack Dalrymple  
*Governor of North Dakota*

**North Dakota  
State Historical Board**

Gereld Gerntholz  
*Valley City - President*

Calvin Grinnell  
*New Town - Vice  
President*

A. Ruric Todd III  
*Jamestown - Secretary*

Albert I. Berger  
*Grand Forks*

Diane K. Larson  
*Bismarck*

Chester E. Nelson, Jr.  
*Bismarck*

Margaret Puetz  
*Bismarck*

Sara Otte Coleman  
*Director  
Tourism Division*

Kelly Schmidt  
*State Treasurer*

Alvin A. Jaeger  
*Secretary of State*

Mark Zimmerman  
*Director  
Parks and Recreation  
Department*

Francis Ziegler  
*Director  
Department of  
Transportation*

Merlan E. Paaverud, Jr.  
*Director*

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September 19, 2012

Judith R. Cooper  
Principal Investigator  
SWCA Environmental Consultants  
116 North 4<sup>th</sup> Street, Suite 200  
Bismarck, North Dakota 58501

NDSHPO REF.: 12-0400b PSC Plains All-American Pipeline LP, Nelson Takeoff to Ross Pipeline, Mountrail County, North Dakota: Addendum Class III CRI Report: The Little Knife Reroute

Dear Judy:

We have reviewed correspondence and project document for 12-0400b PSC Plains All-American Pipeline LP, Nelson Takeoff to Ross Pipeline, Mountrail County, North Dakota: "Addendum to the Class I and Class III Cultural Resource Inventory of the Plains All-American Pipeline Nelson Takeoff to Ross Pipeline, Mountrail County, North Dakota: The Little Knife Reroute," by Damien S. Reinhart (SWCA 12-408, September 2012), and find it acceptable.

We concur with "*No Significant Sites Affected*" and "*No Historic Properties Affected*" determinations provided the project is of the nature stated, it takes place in the location plotted and mapped in the project documentation and as outlined in the report.

Thank you for the opportunity to review this project. If you have questions please contact either Paul Picha at [ppicha@nd.gov](mailto:ppicha@nd.gov) or (701) 328-3574 or Susan Quinnell at [squinnell@nd.gov](mailto:squinnell@nd.gov) or (701) 328-3576.

Sincerely,

Merlan E. Paaverud, Jr.  
State Historic Preservation Officer (North Dakota)  
and  
Director, State Historical Society of North Dakota  
c: Patrick Fahn, ND PSC

September 18, 2012

Paul R. Picha, Chief Archeologist  
State Historical Society of North Dakota  
Archeology & Historic Preservation Division  
612 East Boulevard Avenue  
Bismarck, ND 58505-0830

**RE: Addendum to a Class I and Class III Cultural Resource Inventory of the Plains All-American Pipeline Nelson Takeoff to Ross Pipeline, Mountrail County, North Dakota: The Little Knife River Reroute**

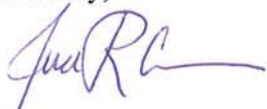
Dear Mr. Picha:

Enclosed is a copy of a report entitled *Addendum to A Class I and Class III Cultural Resource Inventory of the Plains All-American Pipeline Nelson Takeoff to Ross Pipeline, Mountrail County, North Dakota: The Little Knife River Reroute*. This report documents a recent cultural resource inventory of the Plains All American Pipeline, L.P. (PAA) Nelson Takeoff to Ross Pipeline Little Knife River reroute. SWCA Environmental Consultants (SWCA) performed the inventory as part of PAA's permit application to the North Dakota Public Service Commission. Two previous manuscripts and a letter, filed under State Historical Society of North Dakota (SHSND) Reference # 12-0400, have been submitted for this project to date:

- Manuscript (Lechert and Herson 2012): *A Class I and Class III Cultural Resource Inventory of the Plains All-American Pipeline Nelson Takeoff to Ross Pipeline, Mountrail County, North Dakota*
- Manuscript (Altizer 2012): *Addendum to a Class I and Class III Cultural Resource Inventory of the Plains All-American Pipeline Nelson Takeoff to Ross Pipeline, Mountrail County, North Dakota*.
- Letter Filing (Cooper 2012): *NDSHPO REF.: 12-0400 PSC Plains All-American Pipeline LP, Nelson Takeoff to Ross Pipeline, Mountrail County, North Dakota: Reroute*

The proposed reroute would allow for additional HDD workspace near the Little Knife River crossing. A total of 3.41 acres were newly inventoried for the project. No cultural resources were identified during the inventory. SWCA recommends that a determination of *No Historic Properties Affected* and *No Significant Sites Affected* be granted and for the project to proceed as planned. Please notify SWCA of the results of your review at your earliest convenience.

Sincerely,



Judith R. Cooper, Ph.D.  
Cultural Resources Lead/Principal Investigator

Appendix D  
Natural Resource Report



ENVIRONMENTAL CONSULTANTS

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Bismarck Office  
116 N. 4<sup>th</sup> Street, Suite 200  
Bismarck, ND 58501  
701.258.6622  
www.swca.com

September 20, 2012

Mr. Jim Fleetwood  
Plains All American Pipeline, L.P.  
333 Clay Street, Suite 1600  
Houston, Texas 77002

Dear Mr. Fleetwood,

This letter presents the results of the natural resources field surveys conducted by SWCA Environmental Consultants (SWCA) for the Little Knife River reroute of the Nelson Takeoff to Ross Pipeline. Plains All American Pipeline, L.P. (PAA) contacted SWCA and requested professional natural and cultural resource services be conducted in order to identify exclusion and avoidance areas as specified in North Dakota Administrative Code 69-06-08-02. SWCA surveyed approximately 3.41 additional acres to accommodate for the reroute of the Little Knife River horizontal directional drill (HDD).

SWCA conducted natural resources field surveys of the Little Knife River HDD survey area on September 14, 2012, to determine the potential presence and extent of wetlands and waterbodies. This includes jurisdictional waters of the U.S., commonly referred to as wetland and ordinary high water mark (OHWM) determinations. Concurrently with the wetland determination, SWCA conducted a cursory threatened and endangered species survey and habitat assessment; a tree, sapling, and shrub enumeration survey; and a noxious weed survey. The attached site layout map illustrates the survey area and natural resource features identified during the field surveys.

This letter is written in support of the natural resources and wetland determination report submitted by SWCA for the PAA Nelson Takeoff to Ross Pipeline project in Mountrail County, North Dakota (Bivens and Christensen 2012<sup>1</sup>) and presents the results of the aforementioned surveys. Survey methodologies followed those described in Bivens and Christensen (2012) and included wetland and waterbody determinations; tree, sapling, and shrub counts; and wildlife surveys including threatened and endangered species.

### **Wetlands and Waterbodies**

SWCA extended the boundary of the Little Knife River (NRCSTR3) and associated fringe wetland to accommodate for the HDD reroute. The originally proposed HDD would contain

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<sup>1</sup> Bivens, J., and P. Christensen. 2012. Natural Resources and Wetland Determination Report for the PAA Nelson Takeoff to Ross Pipeline, Mountrail County, North Dakota. Prepared by SWCA Environmental Consultants for Plains All American Pipeline, L.P.

approximately 1.989 acres (Bivens and Christensen 2012) of the Little Knife River within the construction right-of-way (ROW). The newly proposed HDD would cross approximately 1.02 acres that would fall within the ROW of the Little Knife River HDD crossing, which is 0.969 acre less than the originally proposed HDD. Crossing the river via HDD would result in no surface disturbance.

### **Vegetation**

No additional trees, saplings, or shrubs occur with the additional survey area. Further, no noxious weed assemblages were observed within the survey area. Upland vegetative communities within the additional survey area are dominated by Kentucky bluegrass (*Poa pratensis*), stiff goldenrod (*Solidago rigida*), and common sow thistle (*Sonchus uliginosus*). Wetland plant communities include cloaked bulrush (*Scirpus pallidus*), prairie cordgrass (*Spartina pectinata*), broadleaf cattail (*Typha latifolia*), and foxtail barley (*Hordeum jubatum*).

### **Wildlife Observations**

SWCA conducted a cursory threatened and endangered species habitat assessment concurrently with the wetland determination. Ecologists did not observe any primary (i.e., actual sighting) or secondary (i.e., tracks, scat, fur) indication of the presence of threatened or endangered species. The additional survey area does contain suitable foraging and stopover habitat for the whooping crane (*Grus americana*). Affects determinations do not differ from those proposed in the original report (Bivens and Christensen 2012).

### **Summary**

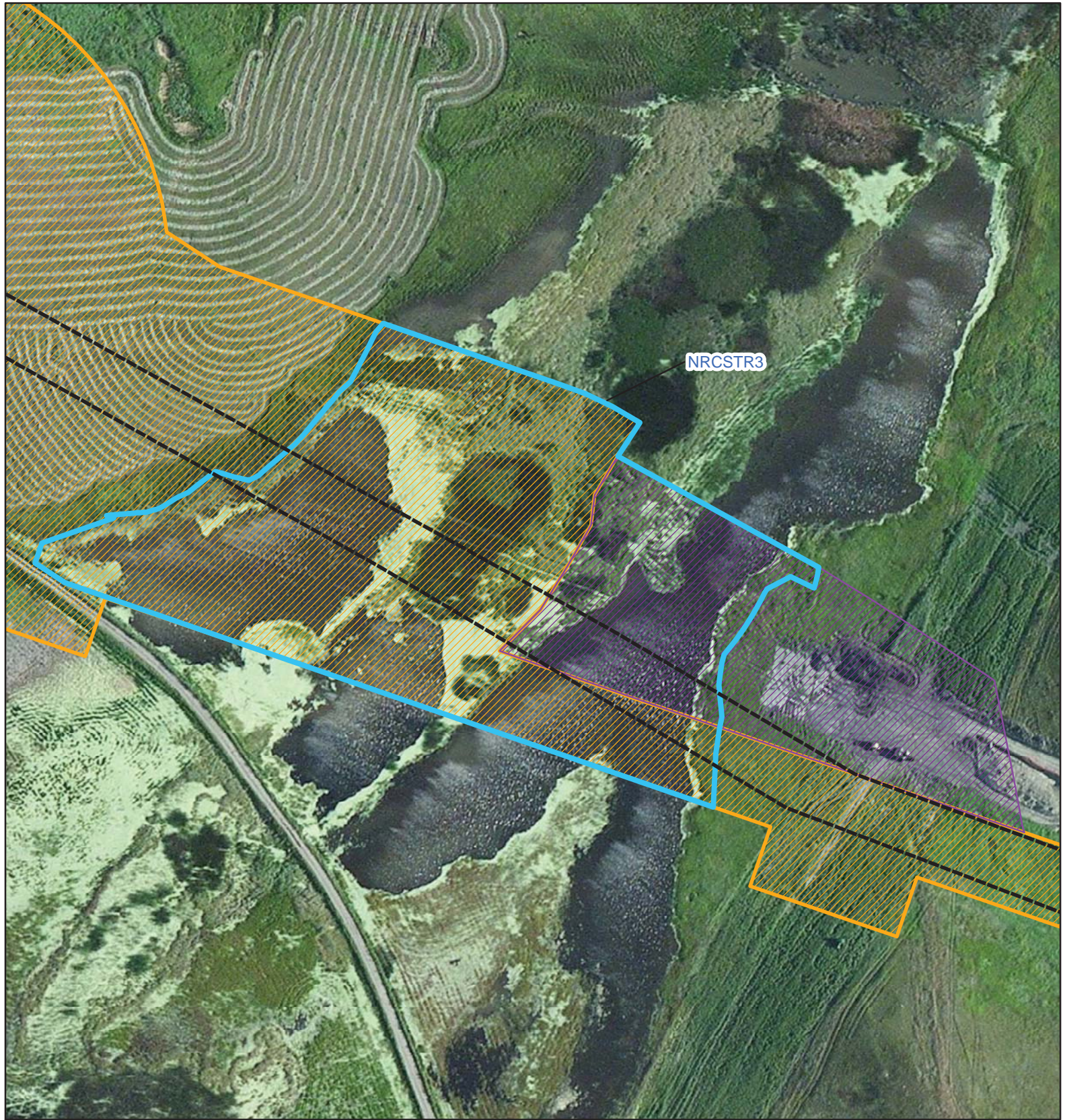
SWCA inventoried an additional 3.41 acres on September 14, 2012, for the Little Knife River HDD reroute. SWCA extended the boundary of the Little Knife River. As a result of the reroute, approximately 1.02 acres of the Little Knife River will fall within the proposed construction corridor, which is 0.969 acre less than the originally proposed HDD. Since the entire Little Knife River will be crossed via HDD, no surface disturbance will occur. In addition, SWCA did not observe any threatened or endangered species, tree saplings or shrubs, or noxious weed assemblages during reroute surveys. SWCA does not anticipate any additional impact to aforementioned natural resources.

If you have any questions or require further analysis, please contact me at (701) 258-6622, or via email at [jbivens@swca.com](mailto:jbivens@swca.com).





Sincerely,



Jason Bivens  
Environmental Specialist/Project Manager



## Nelson Takeoff to Ross Pipeline Little Knife River Reroute

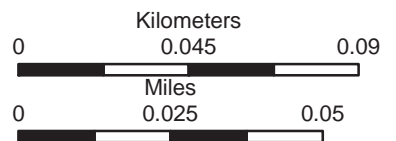
-  Proposed Construction ROW
-  Stream
-  Current Survey Area
-  Previous Survey Area

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Suite 200  
Bismarck, ND 58501

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Fax: 701.258.5957

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Base Map: Aerial Imagery  
Source: Bing Maps Aerial  
Quadrangle: Stanley (1981)  
T. 156N, R. 91W  
Mountrail County, North Dakota



Scale: 1:2,000      NAD 1983 UTM Zone 13N

Appendix E  
Cultural Resource Report

**Addendum to the Class I and Class  
III Cultural Resource Inventory of the  
Plains All-American Pipeline Nelson  
Takeoff to Ross Pipeline, Mountrail  
County, North Dakota: The Little  
Knife River Reroute**

Prepared for

**Plains All-American Pipeline, L.P.**

Prepared by

**SWCA Environmental Consultants**

September 2012



## MANUSCRIPT DATA RECORD FORM

1. Manuscript Number:
2. SHPO Reference #:
3. Author(s): Damien S. Reinhart
4. Title: Addendum to a Class I and Class III Cultural Resource Inventory of the Plains All-American Pipeline Nelson Takeoff to Ross Pipeline, Mountrail County, North Dakota: The Little Knife River Reroute
5. Report Date: September 18, 2012
6. Number of Pages: 18
7. Type – I, T, E, O: I
8. Acres: 3.41
9. Legal Location(s) (no quarter sections) with Historic Context Study Unit(s):  
Consult the township tables in *The North Dakota Comprehensive Plan for Historic Preservation: Archeological Component*, (SHSND 2008; available at <http://history.nd.gov/hp/hpforms.html>) for Study Unit assignments.  
Study Units: LM, CB, KN, HE, SM, GA, JA, GR, NR, SR, SO, SH, YE

<u>COUNTY</u>	<u>TWP</u>	<u>RNG</u>	<u>SEC</u>	<u>SU</u>
Mountrail	156N	91W	32	GA



**Addendum to the Class I and Class III Cultural Resource Inventory of the  
Plains All-American Pipeline Nelson Takeoff to Ross Pipeline, Mountrail  
County, North Dakota: The Little Knife River Reroute**

Submitted to:

**State Historical Society of North Dakota**

Prepared for:

**Plains All-American Pipeline, L.P.  
333 Clay Street, Suite 1600  
Houston, Texas 77002**

Prepared by:

**Damien S. Reinhart**

Principal Investigator:

**Judith R. Cooper**

**SWCA Environmental Consultants  
116 North 4<sup>th</sup> Street, Suite 200  
Bismarck, North Dakota 58501**

SWCA Cultural Resource Report Number 12-408  
Addendum to SWCA Cultural Resource Report Number 11-591

September 18, 2012



## **ABSTRACT**

This report is an addendum to the Class I and Class III report for the cultural resource inventory of the Plains All-American Pipeline Nelson Takeoff to Ross Pipeline, Mountrail County, North Dakota (Lechert and Herson 2012) and presents the results of a Class III cultural resource inventory conducted by SWCA Environmental Consultants (SWCA) on September 14, 2012, on behalf of Plains All-American Pipeline, L.P. (PAA), for the proposed Little Knife River reroute. Upon the request of the North Dakota Public Service Commission (NDPSC), additional acreage was inventoried adjacent to the Little Knife River to allow for the repositioning of horizontal directional drill equipment. The additional survey area consists of 3.41 acres in Mountrail County, North Dakota, near the town of Stanley, on privately owned lands in Section 32 of Township 156 North, Range 91 West.

The jurisdictional agency presiding over the construction of the Nelson Takeoff to Ross pipeline is the NDPSC. PAA retained SWCA to complete a Class I and Class III cultural resource inventory for the project.

The survey area is irregularly shaped and combines both block and linear inventory areas to allow PAA additional work space, as needed. In total, 3.41 acres were newly inventoried for the project. The proposed pipeline reroute would be constructed within the area surveyed by SWCA during the current and previous inventory (Lechert and Herson 2012).

No cultural resources were observed during the course of the reroute inventory. It is recommended that the project be granted a determination of *No Historic Properties Affected* and *No Significant Sites Affected* and clearance to proceed as planned.

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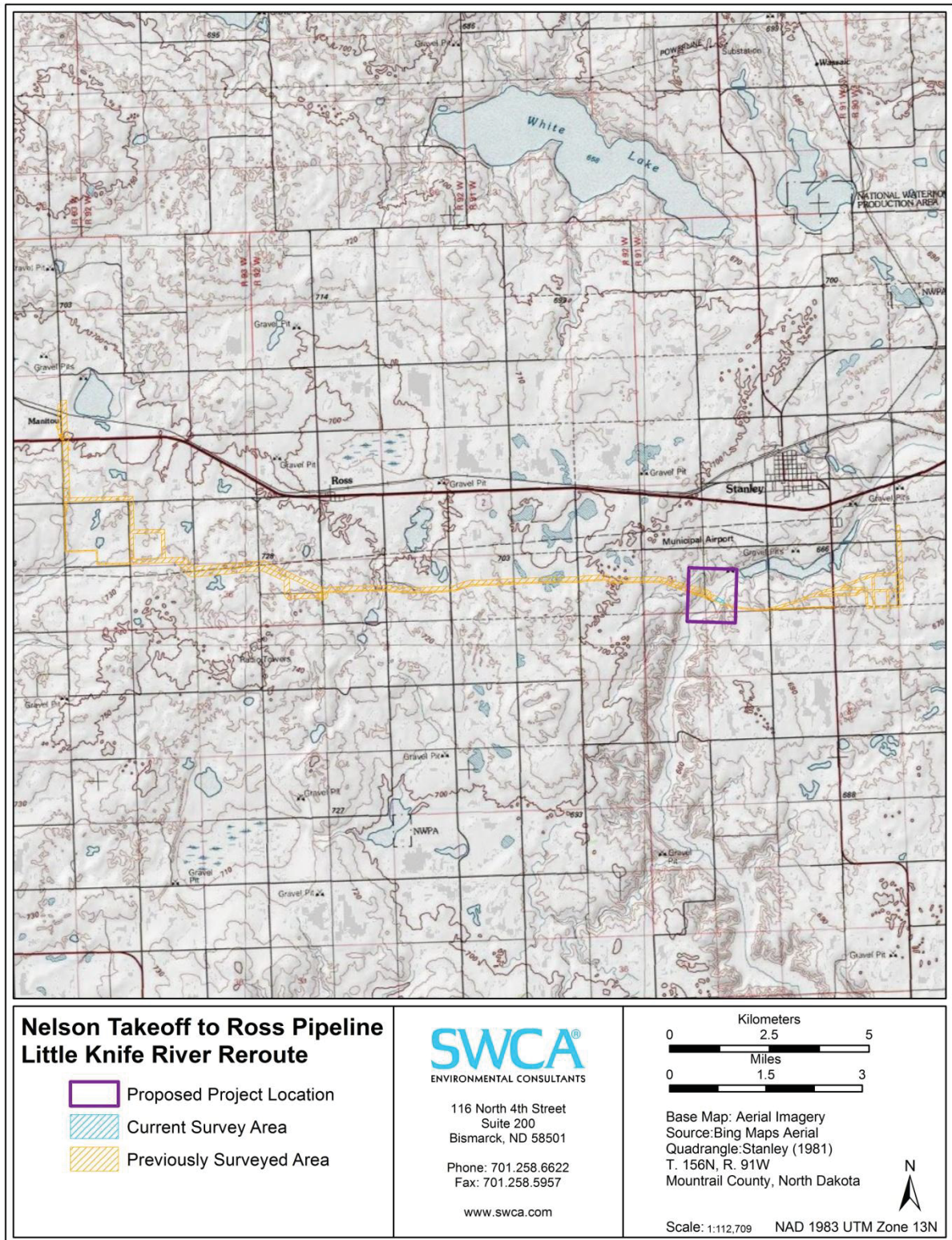
## **INTRODUCTION**

This addendum report presents the results of a Class III cultural resource inventory conducted by SWCA Environmental Consultants (SWCA) on September 14, 2012, on behalf of Plains All-American Pipeline, L.P. (PAA), for the proposed Plains All-American Pipeline Nelson Takeoff to Ross Little Knife River reroute. The jurisdictional agency presiding over the construction of the Nelson Takeoff to Ross pipeline is the North Dakota Public Service Commission (NDPSC). Upon the request of the NDPSC, additional acreage was inventoried adjacent to the Little Knife River to allow for the repositioning of horizontal directional drill (HDD) equipment. The additional survey area consists of 3.41 acres in Mountrail County, North Dakota, near the town of Stanley, on privately owned lands (Figure 1).

For the pipeline project in its entirety, approximately 1,097 acres were previously inventoried on private lands in North Dakota (Altizer 2012; Lechert and Herson 2012). The additional survey area discussed herein consists of 3.41 acres to accommodate a HDD reroute. The Class III survey area is irregularly shaped and combines both block and linear (200-foot-wide) inventory areas to allow PAA additional work space, as needed (Figures 2–3). In total, 3.41 acres were inventoried for the project. The reroute inventory area is in Mountrail County, North Dakota, near the town of Stanley, on privately owned lands in the SW $\frac{1}{4}$  NW $\frac{1}{4}$  SW $\frac{1}{4}$  of Section 32 of Township (T) 156 North (N), Range (R) 91 West (W). The inventoried area is depicted on the Stanley (1981), North Dakota, U.S. Geological Survey topographic quadrangle.

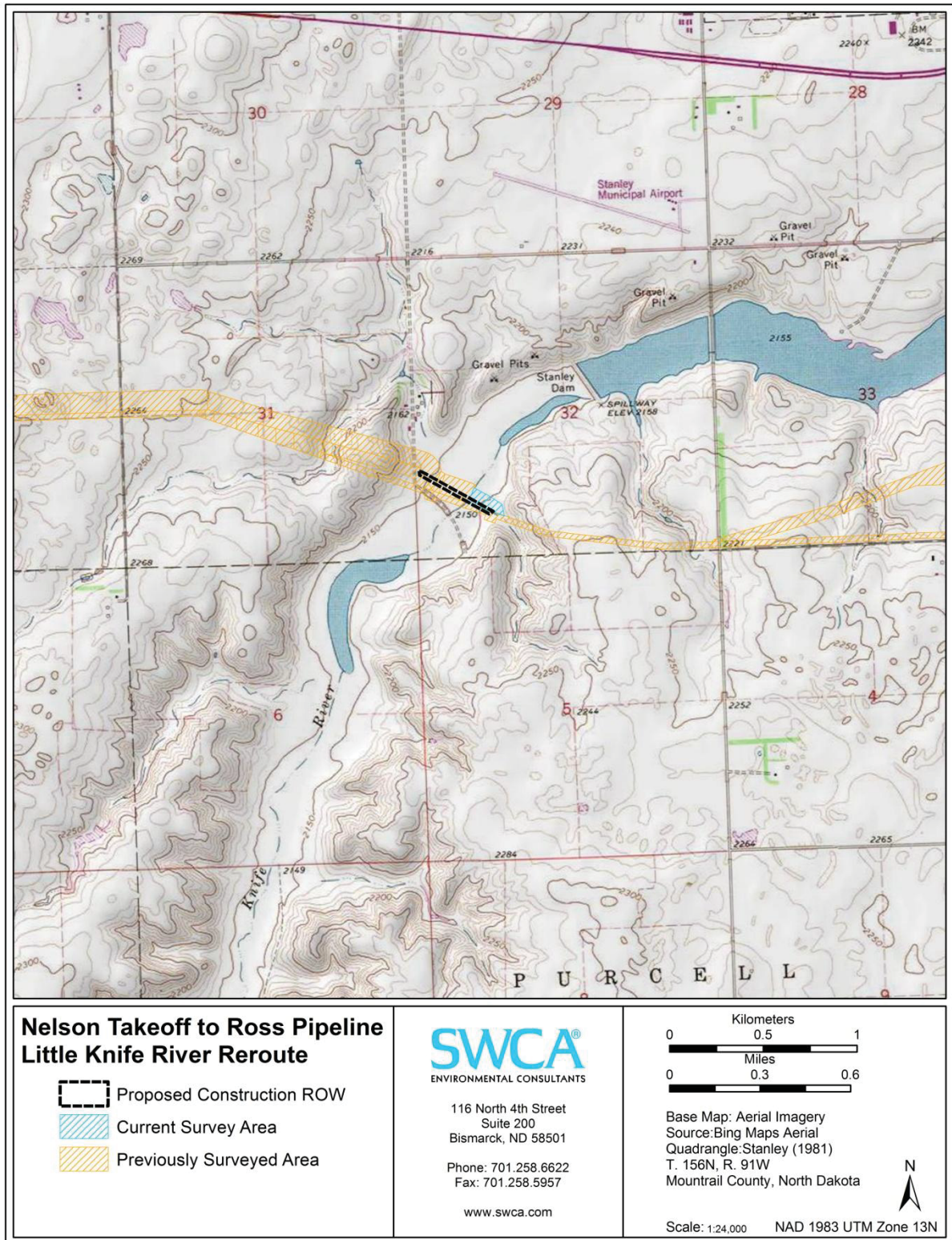
For the cultural resource investigation, Judith Cooper served as Principal Investigator. Fieldwork was performed by Chandler S. Herson (permitted archaeologist within the State of North Dakota). All field notes and photographs are on file at SWCA's Bismarck, North Dakota, office under project number 20655.

*A Addendum to the Class I and Class III Cultural Resource Inventory of the Plains All-American Pipeline Nelson Takeoff to Ross Pipeline, Mountrail County, North Dakota: The Little Knife River Reroute*

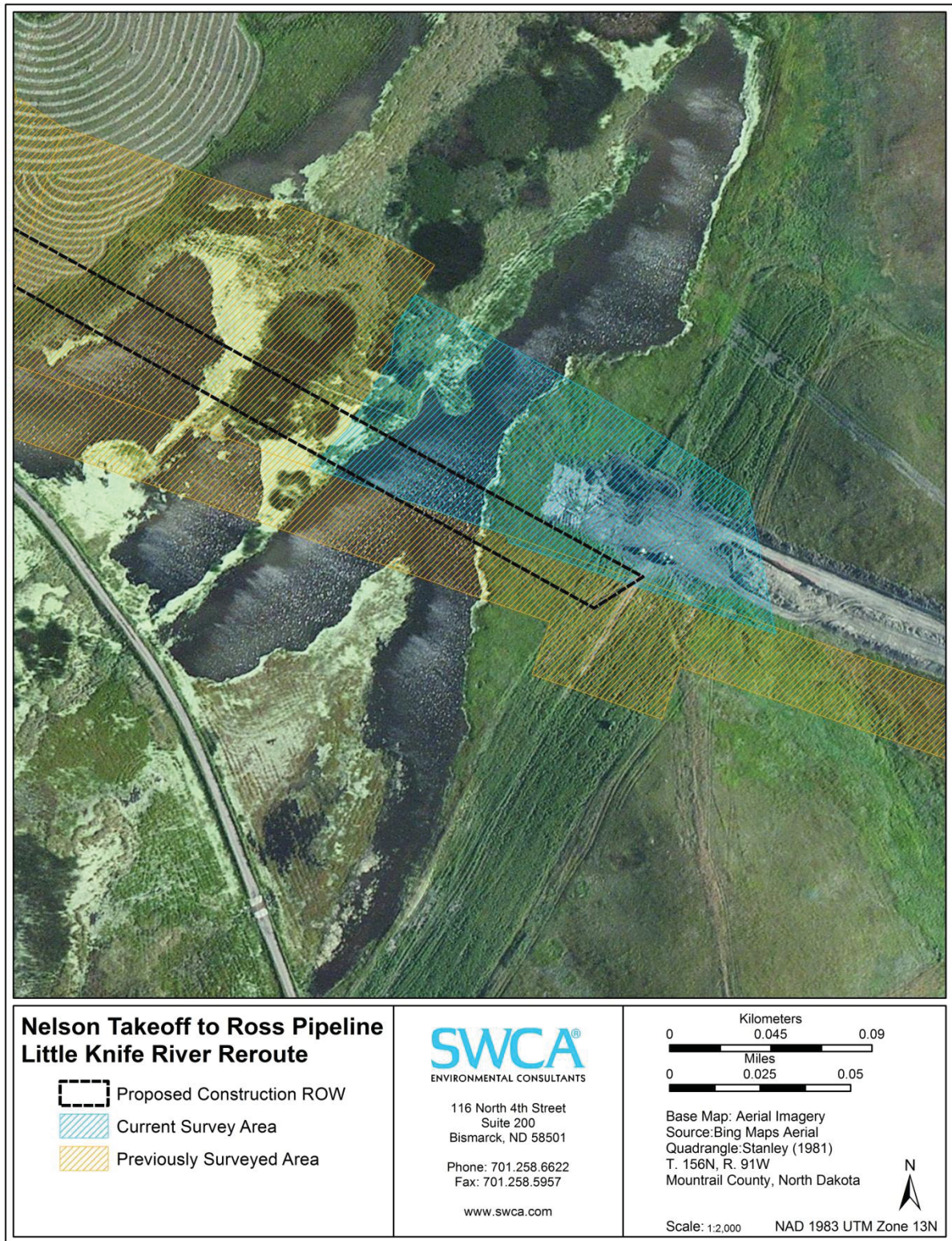


**Figure 1. Project area overview map.**

*A Addendum to the Class I and Class III Cultural Resource Inventory of the Plains All-American Pipeline Nelson Takeoff to Ross Pipeline, Mountrail County, North Dakota: The Little Knife River Reroute*



**Figure 2. Project area map.**



**Figure 3. Project area aerial map.**

## **PROJECT SETTING AND BACKGROUND**

The project setting, including discussions of the topography, climate, hydrology, geology, soils, and flora and fauna; environmental constraints; and cultural and historic overviews are described in the original Class I and Class III report (Lechert and Herson 2012).

## **BACKGROUND RESEARCH**

As part of the initial phase of this investigation, SWCA conducted a background search of archaeological and historical literature and records for the project area and surrounding 1-mile area. Researchers searched relevant records holdings at the State Historical Society of North Dakota and other available sources for information regarding previously recorded historic and prehistoric sites located within the project area. Background research was conducted on September 7, 2011. The results of this search are detailed in Lechert and Herson (2012). No previously recorded sites are located within the reroute survey area.

## **FIELDWORK METHODS**

The survey area included a 200-foot-wide corridor centered on the proposed pipeline reroute alignment. Inventory was conducted by means of pedestrian transects spaced at no more than 15 meters. No subsurface testing was conducted. For a detailed discussion of the project survey methods, refer to Lechert and Herson (2012).

## **INVENTORY RESULTS AND RECOMMENDATIONS**

SWCA performed a Class III inventory of the proposed reroute on September 14, 2012. The proposed reroute travels through mixed grasses and some wetland vegetation including smooth brome, crested wheatgrass, and Kentucky bluegrass. Bare ground visibility was 5 percent within grassy areas (50 percent of inventory area) with 90 percent ground surface visibility in existing disturbance areas caused by nearby pipeline construction (Figures 4 and 5). Soils throughout the project area consist of light brown clay formed through residual, colluvial, and alluvial processes. Major impacts to the project area include pipeline construction and vehicle traffic. No cultural resources were newly recorded by SWCA archaeologists during the course of the inventory and no previously recorded cultural resources are located within the reroute survey area.



**Figure 4. Project area overview, from south edge of reroute, facing north.**



**Figure 5. Project area overview, showing edge of the Little Knife River, facing north.**

## **CONCLUSIONS**

On September 14, 2012, SWCA conducted a Class III inventory for the proposed Nelson Takeoff to Ross pipeline Little Knife River reroute. The goal of the Class III inventory was to survey an area to allow for additional HDD workspace adjacent the Little Knife River. The project area is located on privately owned lands in Section 32, T156N, R91W, in Mountrail County, North Dakota, near the town of Stanley. In total, 3.41 acres were inventoried for the reroute project. All proposed construction activities would remain within the inventoried area.

No cultural resources were observed during the course of the reroute inventory. It is recommended that the project be granted a determination of *No Historic Properties Affected* and *No Significant Sites Affected* and clearance to proceed as planned.

## **REFERENCES CITED**

Altizer, Kendy

2012 *Addendum to a Class I and Class III Cultural Resource Inventory of the Plains All-American Pipeline Nelson Takeoff to Ross Pipeline, Mountrail County, North Dakota.* Prepared by SWCA Environmental Consultants for Plains All-American Pipeline, L.P., Houston, Texas.

Lechert, Stephanie, and Chandler S. Herson

2012 *A Class I and Class III Cultural Resource Inventory of the Plains All-American Pipeline Nelson Takeoff to Ross Pipeline, Mountrail County, North Dakota.* Prepared by SWCA Environmental Consultants for Plains All-American Pipeline, L.P., Houston, Texas.

Appendix F  
Landowner Communication

September 17, 2012

David and Stephanie Enander  
6061 83<sup>rd</sup> Ave. NW  
Stanley, ND 58784

RE: Pipeline Easement, Payment Agreement  
Township 156 North, Range 91 West  
Section 32: SW4  
Mountrail County, ND

Greetings David and Stephanie,

Pursuant to your conversation with Kim Duursma on 9/6/2012 you gave Plains Pipeline permission to alter the pipeline route where it will cross the Knife River, and told Kim it was a better route. Please sign below acknowledging that you gave Plains Pipeline Permission to re-route the ROW route on your land for the Nelson to Ross Pipeline.

If you have any questions on the above matter please contact me at the telephone number listed below. Thank you for your consideration in this matter. *I am in full agreement to rerouting pipeline to the new proposed route.*



David Enander

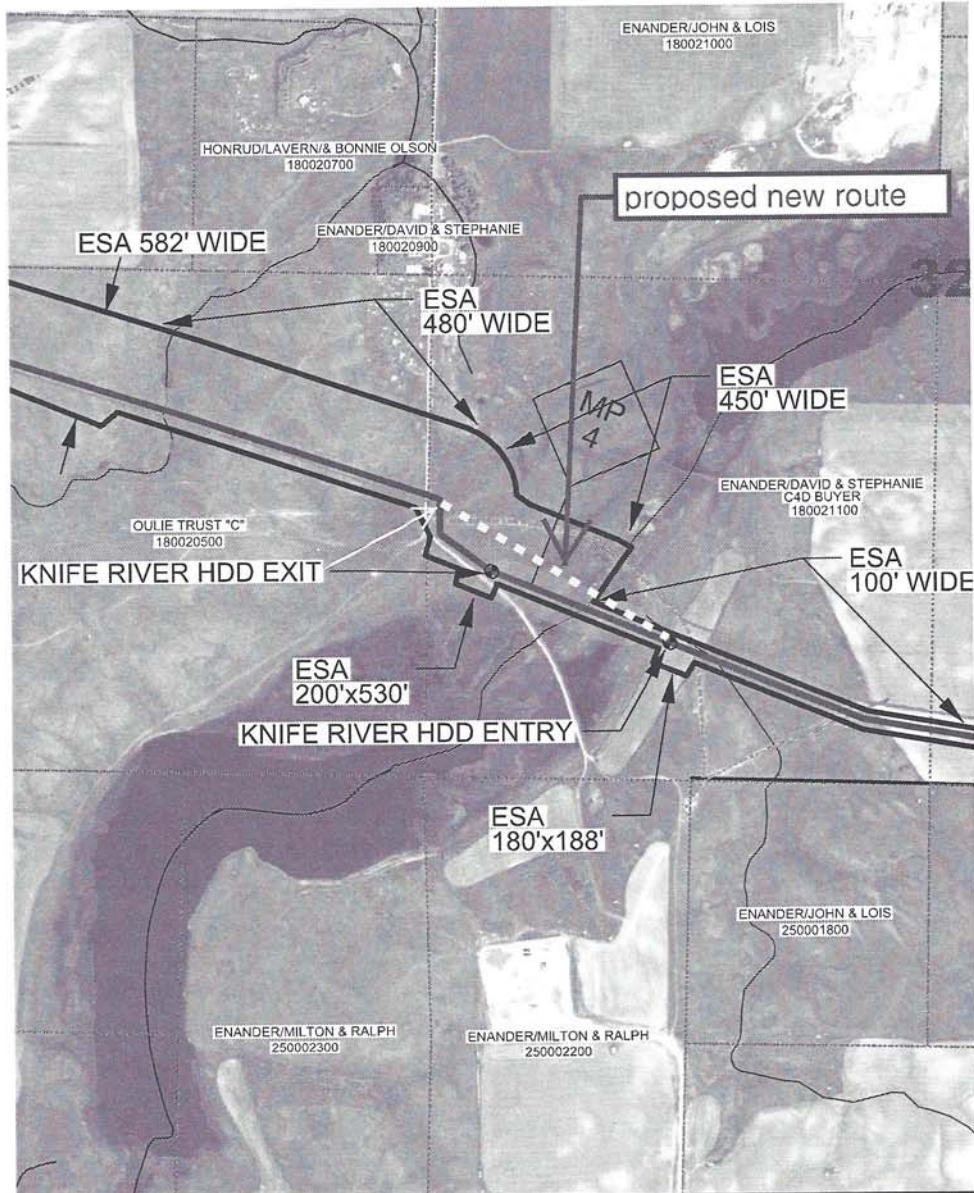


Stephanie Enander

Sincerely,



Kimberly Duursma  
Land Agent for B J Kadrmas Inc.  
701-516-2583



REVISIONS					
REV. NO.	DESCRIPTION	DWN	CHKD	DATE	
0	ISSUED FOR CONSTRUCTION	JW	CB	4-18-12	
PAGES					



**PLAINS**  
ALL AMERICAN  
PIPELINE, L.P.

NELSON TO ROSS PIPELINE  
PROPOSED ROUTE OVERVIEW #2  
MOUNTRAIL COUNTY, NORTH DAKOTA

*Stephanie Enander*

Appendix G  
Certification Statement

**CERTIFICATION OF APPLICANT COMPLIANCE WITH TRANSMISSION CORRIDOR AND ROUTE SITING CRITERIA (N.D. Admin. Code 69-06-08-02)**

PLAINS PIPELINE, L.P.

I, Irvin James Fleetwood Jr., a duly authorized agent of Plains Pipeline, L.P. (Plains), do hereby certify under oath:

1. That the North Dakota Public Service Commission previously granted unto Plains Pipelines, L.P. the authority under (Case No. PU-12-040) Certificate of Corridor Compatibility Number 133 and Route Permit Number 143 to construct the Nelson Take-Off to Ross Pipeline Project in Mountrail County, North Dakota;
2. The proposed route improvement at the Little Knife River will move the workspace necessary to complete the waterbody crossing, landward from the associated wetland boundaries;
3. There is no practicable alternative to the proposed alignment;
4. The affected landowner has endorsed the proposed alignment;
5. The construction of the proposed route improvement will not affect any known exclusion or avoidance area; and
6. That Plains will comply with all applicable conditions and protections in siting law and rules and commission orders previously issued for any part of the Nelson Take-Off to Ross Pipeline Project.

Dated Mills, Wyoming, this 24th day of September, 2012

Irvin James Fleetwood Jr.  
Irvin James Fleetwood Jr.

This instrument was acknowledged before me this 24th day of September, 2012 by Irvin James Fleetwood Jr. on behalf of Plains.

Sign: Christina Sparby

Print: Christina Sparby, Notary Public

My Commission Expires: 11/16/15

