BEFORE THE PUBLIC SERVICE COMMISSION

STATE OF NORTH DAKOTA

CASE NO. PU-05-185

IN THE MATTER OF THE APPLICATION OF PLAINS PIPELINE, L.P., FOR THE CONSTRUCTION OF APPROXIMATELY 4.62 MILES OF 10-INCH PIPELINE IN MCKENZIE AND WILLIAMS COUNTIES, NORTH DAKOTA, ADJACENT TO THE SOUTHERNMOST NORTH DAKOTA PORTION OF THE TRENTON PIPELINE SYSTEM FOR THE PURPOSE OF INCREASING CAPACITY OF THE PIPELINE IN TRANSPORTING CRUDE OIL FROM RICHLAND COUNTY, MONTANA AND MCKENZIE AND WILLIAMS COUNTIES, NORTH DAKOTA, FOR DELIVERY TO TRENTON STATION LOCATED APPROXIMATELY 5 MILES SOUTHWEST OF WILLISTON, NORTH DAKOTA.

CONSOLIDATED APPLICATION OF PLAINS PIPELINE, L.P. FOR WAIVER OF PROCEDURES AND TIME SCHEDULES AND FOR CERTIFICATE OF CORRIDOR COMPATIBILITY AND ROUTE PERMIT

Plains Pipeline, L.P. ("Plains"), a limited partnership organized and existing under the laws of the State of Texas with principal offices located at 333 Clay Street, Suite 1600, Houston, Texas 77002, and authorized to do business in the State of North Dakota pursuant to the Energy Conversion and Transmission Facility Siting Act, codified as Chapter 49-22 of the North Dakota Century Code (the "Act"), hereby submits this Consolidated Application for Waiver of Procedures and Time Schedules and for Certificate of Corridor Compatibility and Route Permit, requesting the North Dakota Public Service Commission ("Commission"), in accordance with Sections 49-22-07.2 and 49-22-13(2) of the North Dakota Century Code and Chapter 69-06-06 of the North Dakota

Administrative Code, to: (1) waive the provisions of Sections 49-22-08(5), 49-22-08.1(5) and 49-22-13 of the North Dakota Century Code and Section 69-06-01-02(2) of the North Dakota Administrative Code which requires separate filings of such applications, hearings on such applications and certain time schedules as set forth in said statutes and rules; (2) not hold a public hearing on this waiver request, but pursuant to Section 49-22-13(2) of the North Dakota Century Code and Section 69-06-01-02(3) of the North Dakota Administrative Code, publish a notice of opportunity for hearing as provided therein; and, (3) designate the corridor and route as identified on the maps included with this Application and issue the appropriate Certificate of Corridor Compatibility and Route Permit.

The Commission's Application Guidelines for Waiver of Procedures and Time Schedules requires a description of the facility, the need for the facility, the cost of the facility and separate justification for each provision of the Act for which the Applicant is requesting a waiver, together with evidence that the project will produce minimal adverse effects. As demonstrated in this Application and summarized below, Plains' request for a Waiver of Procedures and Time Schedules and the issuance of a Certificate of Corridor Compatibility and Route Permit is justified as the proposed pipeline is of such design, location and purpose that it will produce minimal adverse effects.

DESCRIPTION

The proposed 10-inch segment will be approximately 4.62 miles in length and generally follow the existing 6-inch segment from the Montana/North Dakota border located in Section 30, Township 152 North, Range 104 West, McKenzie County, North Dakota, to the northeast for

approximately 4.62 miles and then connect to the existing 6-inch portion of the line approximately 1/4 mile southeast of the city of Buford, North Dakota.

NEED

The Trenton Pipeline System was originally constructed and installed by Koch Pipeline Company, L.P., in 1968 for the purpose of transporting crude oil from oil fields near Sidney, Montana, to the Flying J Refinery located on the eastern edge of Williston, North Dakota. As currently operated by Plains, the Trenton Pipeline System receives crude oil from numerous oil well sites located in Richland County, Montana, and McKenzie and Williams Counties, North Dakota, and transports the crude oil to a receiving facility known as Trenton Station located approximately 5 miles southwest of the City of Williston, North Dakota. Crude oil transported to Trenton Station is delivered to Enbridge Pipelines (North Dakota) L.L.C. for ultimate transportation and delivery to various refineries located throughout the United States.

In the past few years, oil and gas exploration activities in Richland County have resulted in a dramatic increase in crude oil production. This increase in crude oil production has created a need for Plains to increase the capacity of its Trenton Pipeline System. To meet the demand for increased capacity, Plains has plans to commence construction of its proposed 10-inch segment as set forth herein as soon as all the necessary regulatory approvals can be obtained.

COST

The estimated cost of installation for the 4.62 miles of 10-inch pipeline is $1,500,000.00. As part of its Application, Plains has submitted a check in the amount of $7,500.00 made payable to the Commission for the filing fee as required by the Commission.

JUSTIFICATION

The plans of Plains to increase the capacity of its Trenton Pipeline System with the installation of a segment of 10-inch pipeline approximately 4.62 miles in length will have little adverse effect on the current surface uses of the property involved except for the short time frame of 60 days during construction and installation of the proposed pipeline. The segment of the proposed 10-inch pipeline will be buried at least 48 inches below the surface. Considering the expansion of the Trenton Pipeline System as proposed by Plains consists of the construction and installation of a relatively short segment of small diameter pipeline, and the short time involved in construction and installing the pipeline, there will be no adverse effect from the expansion of the Trenton Pipeline System as proposed by Plains. For the foregoing reasons, there is substantial justification for granting a waiver for the requested procedures and time schedules. In support of its request, Plains submits with this Application the following:

1. Waiver Request of Plains Pipeline, L.P.;
2. Application of Corridor Certificate of Plains Pipeline, L.P.; and
3. Application for Route Permit of Plains Pipeline, L.P.

Based upon this Application, and the above referenced documents (attached herewith), Plains respectfully requests that the Commission grant the requested waivers, render an expeditious decision in this matter, enter an order designating the corridor and route as identified in the maps included with this Application and issue the appropriate Certificate of Corridor Compatibility and Route Permit.

DATED this 26th day of July, 2005.

PEARCE & DURICK

By _____
LAWRENCE BENDER
Attorneys for Applicant, Plains Pipeline, L.P.
314 East Thayer Avenue
Post Office Box 400
Bismarck, North Dakota 58502

STATE OF NORTH DAKOTA)
) ss.
COUNTY OF BURLEIGH)

LAWRENCE BENDER, of lawful age, being first duly sworn, on oath deposes and says:

That he is the duly elected and qualified attorney for Applicant in the foregoing application; that he executed the foregoing application for and on behalf of said Applicant and as its said attorney that he has read said application and knows the contents thereof; and that the statements made and contained therein are, to the best of his knowledge and belief, true and correct.

_____
LAWRENCE BENDER

Subscribed and sworn to before me this 26 day of July, 2005.

Jeanne A. Feist
Notary Public
Burleigh County, North Dakota
My Commission Expires:

JEANNE A. FEIST
Notary Public State of North Dakota
My Commission Expires MARCH 7, 2007

WAIVER REQUEST

SECTION A

Description

A.1 Type of Facility

See Corridor Certificate Application Section A.1.

A.2 Product

See Corridor Certificate Application Section A.2.

A.3 Size and Design

See Corridor Certificate Application Section A.3.

A.4 Location

See Appendix at Tab 1. Maps therein show the location of the pipeline right-of-way and proposed route.

A.5. Geographical Service Area

See Appendix at Tab 2. Maps therein show the Trenton Pipeline System. As shown on these maps, the Trenton Pipeline System currently receives and transports crude oil from Richland County, Montana, and McKenzie and Williams Counties, North Dakota, and transports it to Plains' Trenton Station located approximately 5 miles southwest of Williston, North Dakota. The proposed expansion will provide additional capacity to producers of crude oil in Richland County, Montana, and McKenzie and Williams Counties, North Dakota.

A.6 Time Schedule

See Sections A.4 of Corridor Certificate Application and Route Permit Application.

A.7 Future Plans

There are plans for future expansions of the Trenton Pipeline System near Trenton, North Dakota, which is the subject of a separate notice of intent which was filed with the North Dakota Public Service Commission on March 28, 2005, and has been docketed as Case No. PU-05-184.

SECTION B

Need for Facility

B.1 Analysis of Need

See Section C.1 of Corridor Certificate Application

B.2 Description of Feasible Alternatives

See Section C.2 of Corridor Certificate Application

B.3 Statement Concerning Deviations from Most Recent Ten-Year Plan

See Section C.3 of Corridor Certificate Application

SECTION C

Cost

C.1 Estimated Cost

The estimated cost of the North Dakota portion of the proposed pipeline project is $1,500,000.

SECTION D

Waiver Request

D.1 Provisions for which Waiver is Requested.

Applicant states, on the basis of the accompanying Application for a Corridor Certificate and Route Permit, that the proposed facility is of such length, design, location,

and purpose that it will produce minimal adverse effects, and specifically requests that the Commission waive the following requirements:

1. Pursuant to Section 49-22-13(2) of the North Dakota Century Code, and Section 69-06-01-02(3) of the North Dakota Administrative Code, the applicant requests that the Commission not hold a public hearing on this waiver request, but publish a notice of opportunity for hearing as provided therein.

2. Applicant requests that the Commission Waive the requirement for a hearing on the application for a Corridor Certificate and shorten the three-month period specified in Section 49-22-08(5) of the North Dakota Century Code.

3. Applicant requests that the Commission waive the requirement for a hearing on the application for a Route Permit and shorten the six-month period specified in Section 49-22-08.1(5) of the North Dakota Century Code.

4. Applicant requests that the Commission waive the requirements of Sections 49-22-08 and 49-22-08.1 of the North Dakota Century Code insofar as these sections may require the filing of separate applications for a Corridor Certificate and a Route Permit and insofar as they require the publication of notices of filing of applications.

5. Applicant requests that the Commission waive the requirement of public hearings on applications set forth in Sections 49-22-13(1) of the North Dakota Century Code and Section 69-06-01-02(2) of the North Dakota Administrative Code.

Upon waiver of said requirements, and upon consideration by the Commission of this consolidated application, Applicant requests that the Commission issue a Certificate

of Corridor Compatibility and a Route Permit for construction of the proposed pipeline as specified in the application.

APPLICATION FOR CORRIDOR CERTIFICATE

PLAINS PIPELINE, L.P.

APPLICATION FOR CORRIDOR CERTIFICATE

SECTION A

DESCRIPTION OF PROPOSED FACILITY

A.1. Describe the type of transmission facility addressed in this application. The description shall include the purpose of the facility and the technology to be employed:

The proposed expansion consists of approximately 4.62 miles of 10 inch diameter pipe. The pipe will be buried underground within or adjacent to existing Plains' right-of-way easements in McKenzie and Williams County, North Dakota. The proposed new segment of pipe will replace a segment of existing 6 inch diameter pipe on a portion of the Trenton Pipeline System where the same enters the State of North Dakota approximately 4 miles southwest of the city of Buford, North Dakota, to a point 1/4 mile southeast of Buford. A map which depicts the current Trenton Pipeline System in the state of North Dakota and the proposed route for the expansion project is included with this application. *See* Appendix at Tabs 1-2.

The proposed expansion is referred to by Plains as the "Buford Expansion Project" and is part of another expansion project plan for the Trenton Pipeline System near Trenton referred to by Plains as the "Trenton Expansion Project". (ND PSC Case No. PU-05-184.) These two expansion projects compliment more extensive expansion projects which are ongoing in the state of Montana necessitated by increased oil and gas exploration activities in an area of Montana, near the city of Sidney commonly referred to as the "Richland County Bakken Field."

The proposed Buford Expansion Project will replace a segment of existing 6 inch diameter pipe currently being used to transport crude oil from oil and gas wells located in

Richland County, Montana, and McKenzie and Williams Counties, North Dakota, to Buford Station. The estimated cost of the Buford Expansion Project is approximately One Million Five Hundred Thousand and no/100 Dollars ($1,500,000.00). Plains plans to commence construction on September 1, 2005 or immediately upon the issuance by the North Dakota Public Service Commission of a Corridor Certificate and Route Permit for the Buford Expansion Project. Plains estimates that construction of the Buford Expansion Project will take approximately 60 days and has plans to have the new segment of pipeline in service on or before November 1, 2005. Once in service, the Buford Expansion Project will facilitate the existing Trenton Pipeline System so as to allow an increase in capacity of the pipeline of approximately 23,000 BOPD. Current capacity of the Trenton Pipeline System is approximately 19,000 BOPD. Construction of the proposed Buford Expansion Project (and other potential expansion projects) will result in additional increased capacity of the pipeline of approximately 23,000 BOPD, for a total flow rate of approximately 42,000 BOPD.

A.2. Describe the type, source, and final destination of the product to be transmitted by the proposed facility:

The existing Trenton Pipeline System transports crude oil from oil and gas wells located in Richland County, Montana, and McKenzie and Williams Counties, North Dakota, to Trenton Station located approximately 5 miles southwest of the city of Williston, North Dakota. At Trenton Station, the crude oil is delivered to Enbridge Pipeline (North Dakota) LLC for transportation to various oil refineries in the United States. The majority of crude oil transported by the Trenton Pipeline System originates from the Richland County Bakken Field located in Richland County, Montana, near the city of Sidney. The proposed Buford Expansion Project (along with other expansion projects planned by Plains) will provide

additional capacity primarily for the increased volumes of crude oil being produced in Richland County, Montana.

A.3. Size and Design:

A.3.a Provide a description of the size and design of the ELECTRICAL facility including, but not limited to, the following:

1. **Width of right-of-way;**
2. **Estimated span lengths;**
3. **Anticipated type of structure;**
4. **Approximate length of facility;**
5. **Voltage; and**
6. **The requirement for and general location of any new associated facilities.**

In that this application for Corridor Certificate is for the construction and installation of a pipeline rather than an electrical facility, the provisions of this section are not applicable.

A.3.b Description of size and design of PIPELINE facility.

A.3.b.(l) Width of the Right of Way

Right-of-way acquisitions by Plains for its proposed Buford Expansion Project has been limited to 50 feet. Additional work space may be required during construction and installation for which landowners will be compensated.

A.3.b.(2) Estimated Distances Between Surface Structures

Four block valves will be installed on the proposed Buford Expansion Project at the following locations:

- One block valve on the southwest side of the Missouri River crossing;
- One block valve on the northeast side of the Missouri River crossing;
- One block valve at the end of the 10 inch line connecting to the 6 inch line 1/4 mile southeast of Buford, North Dakota;
- One block valve at the beginning of the 6 inch line connecting to the 10 inch line 1/4 mile southeast of Buford, North Dakota.

A.3.b.(3) **Pipe Size**

The pipe to be installed on this proposed project is a 4.62 mile segment of 10 inch diameter pipe, 0.250 inch wall thickness, API 5L Grade X42.

A.3.b.(4) **Approximate Length of Facility**

The proposed Buford Expansion Project will consist of a segment of 4.62 miles of 10 inch diameter pipe. This new segment of pipe will replace an existing segment of 6 inch diameter pipe at a point approximately 1/4 mile southeast of Buford, North Dakota to a point approximately 4 miles to the southwest at the North Dakota/Montana border.

A.3.b.(5) **Maximum Design Operating Pressure and Temperature**

The maximum allowable operating pressure of the proposed Buford Expansion Project will be 1440 pounds per square inch (psi). The maximum temperature of the crude oil is 70° F.

A.3.b.(6) **Maximum Design Flow Rate**

The design flow rate of the proposed Buford Expansion Project is 42,000 BOPD. If development of the Richland County Bakken Field continues as anticipated, the anticipated maximum flow rate for the proposed Buford Expansion Project will be 42,000 BOPD.

A.3.b.(7) **The Number and General Location of Pumping Stations**

No additional pumping stations are anticipated in North Dakota as a result of the proposed Buford Expansion Project.

A.4. Time Schedule:

A.4.a Certificate of Corridor Compatibility

Expected on or before September 1, 2005.

A.4.b Route Application

Route application submitted contemporaneously with Certificate of Corridor Compatibility and Route Application.

A.4.c Route Permit

Expected on or before September 1, 2005.

A.4.d Construction Start Date

Proposed commencement date for construction is September 1, 2005.

A.4.e Construction Complete

Estimated construction completion date is on or before November 1, 2005.

A.4.f In Service Date

Estimated in service date is on or before November 1, 2005.

SECTION B

STUDIES

In planning the Buford Expansion Project, Plains completed the following studies or assessments of the environmental impacts of the proposed project:

B.1. Cultural Resources Review:

A cultural resources review was conducted for the area involved in the Buford Expansion Project in coordination with the North Dakota State Historical Society. A true and correct copy of the study prepared by Metcalf Archeology is included with this application. *See* Appendix at Tab 3[1].

B.2. Consultation with State and Federal Agencies:

Plains has consulted with the following state and federal agencies regarding its proposed plans for the Buford Expansion Project:

- United States Department of the Interior, Bureau of Reclamation
- United States Department of the Army, Corps of Engineers
- United States Fish and Wildlife Service
- North Dakota Department of Game and Fish
- North Dakota State Historical Society
- North Dakota Department of Transportation
- North Dakota Office of State Engineer

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[1] It should be noted that the study conducted by Metcalf Archeology for the proposed Buford Expansion Project also includes a study of the proposed "Trenton Expansion Project" docketed as ND PSC Case No. PU-05-184.

Plains has also been in contact with other state and federal regulatory agencies as to its Buford Expansion Project and will continue to work with all those regulatory agencies (prior, during and after construction) to ensure that all permits required are obtained and that any environmental impact of constructing and installing the two short segments of pipeline will be kept to a minimum.

SECTION C

NEED FOR FACILITY

C.1. An analysis of the need for the proposed facility based on present and projected demand for the product transmitted by the facility, including the most recent system studies supporting the analysis of the need:

C.1.a Energy Transportation Shortfall

The Trenton Pipeline System was originally constructed and installed by Koch Pipeline Company, L.P., in 1968 for the purpose of transporting crude oil from oil fields near Sidney, Montana, to the Flying J Refinery located on the eastern edge of Williston, North Dakota. As currently operated by Plains, the Trenton Pipeline System receives crude oil from numerous oil well sites located in Richland County, Montana, and McKenzie and Williams Counties, North Dakota, and transports the crude oil to a receiving facility known as Trenton Station located approximately 5 miles southwest of the city of Williston, North Dakota. Crude oil transported to Trenton Station is delivered to Enbridge Pipelines (North Dakota) L.L.C. for ultimate transportation and delivery to various locations in the United States.

An increase in oil and gas exploration activities in Richland County, Montana, indicates the need for further capacity expansion of Plains' Trenton Pipeline System. Current crude oil production from the Richland County Bakken

Field exceeds capacity of the Trenton Pipeline System. Forecasts are that crude oil production will continue to increase from the Richland County Bakken Field for the next several years. Because the demand for crude oil transportation exceeds the capacity of the present Trenton Pipeline System, Plains has been forced to utilize crude oil tanker trucks to meet the demands of its customers. Without an expansion as proposed by Plains of its Trenton Pipeline System, Plains will need to either further increase the use of crude oil tanker trucks or curtail transportation and fail to meet the demands of its customers to transport crude oil from Richland County, Montana, and McKenzie and Williams Counties, North Dakota to Trenton Station.

C.1.b Purpose of the Expansion

Plains proposes to meet the shortfall in its Trenton Pipeline System with the construction and installation of a number of expansion projects on the system which will increase the capacity of the system from 19,000 BOPD to 42,000 BOPD. As set forth below, Plains has considered other alternatives to meet the shortfall in its Trenton Pipeline System. Based upon its analysis of the present and projected demand for transportation of crude oil from Richland County, Montana, and McKenzie and Williams Counties, North Dakota, Plains submits that the proposed Buford Expansion Project (in conjunction with other future expansion projects to the Trenton Pipeline System) is the most optimal response to the needs of oil and gas producers for transportation of their crude oil to refineries throughout the United States.

C.2. Description of any feasible alternative methods of serving the need:

The increase in crude oil production from the Richland County Bakken Field located near Sidney, Montana, has resulted in a significant increase in the usage of truck transportation resources. Current crude oil being produced and being proposed to be transported by the Plains' Trenton Pipeline System is approximately 24,000 BOPD. Transporting this crude oil by tanker truck would require approximately 109 truck loads a day with an average haul of 20 miles one way within the state of North Dakota. This would result in approximately 795,700 loaded miles per year (with an equal amount of unloaded miles) on North Dakota state and county roads. Because of increased transportation demands, Plains has experienced a shortage of resources to accomplish such hauls and has brought trucks into the area from as far away as West Texas and Central Louisiana to augment the resources (both manpower and equipment) available in North Dakota to meet the demands of its customers.

Exploration activities in the Richland County Bakken Field began to increase rapidly in 2003 and, by the end of 2004, production from producers served by Plains had increased to over 14,800 BOPD. Thus far this year, production has increased to approximately 24,000 BOPD. The expectation is that the fields served by Plains will peak out at between 42,000 to 50,000 BOPD in the next 3-5 years. As the production approaches the point of doubling, the trucking needs will increase to over 3 million miles a year – loaded and unloaded combined.

The demand for this crude oil production exists at the refineries in Wyoming, Colorado and Utah to the west and south, to points in Minnesota to the east and locally at Mandan, North Dakota. The trucking constraints described above and the difficulty of

winter transportation have caused curtailment of production in the past with no signs of improvement except as provided by expansion of existing pipeline services or increased tanker truck service. Plains' pipeline proposal will alleviate these problems and bring the needed transportation facilities to the Richland County Bakken Field so that producers will not be required to curtail production and so that increased tanker truck transportation can be avoided.

C.3. Statement concerning deviations from most recent 10-year plan:

A true and correct copy of Plains' most recent Ten-Year Plan on file with the North Dakota Public Service Commission is included with this application. A copy of Plains' most recent Ten-Year Plan is included with this application. *See* Appendix at Tab 4. When Plains filed its most recent Ten-Year Plan with the Commission, it was anticipated that increasing the horsepower capacity of its pumping stations in Montana would be sufficient to handle the additional demand for crude oil transportation of producers in the Richland County Bakken Field near Sidney, Montana. While Plains attempts to anticipate the need for additional pipeline capacity by keeping advised of exploration and production activities, the increase in oil and gas exploration and crude oil production in the Richland County Bakken Field have surpassed what most Plains' customers expected.

SECTION D

LOCATION

D.1. Study Area:

The study area and corridor selected by Plains for its Buford Expansion Project comprises a portion of existing right-of-way for the Trenton Pipeline System. Approximately 2 miles of the proposed Buford Expansion Project will be located within the

existing right-of-way for the Trenton Pipeline System; approximately 1/2 mile of the Buford Expansion Project will be located adjacent to or within 1/4 mile of the existing Trenton Pipeline System; and the remainder of the proposed Buford Expansion Project will be located within 3000 feet of the existing Trenton Pipeline System.

D.2. Map of Proposed Corridor:

A map depicting the location of exclusion and avoidance areas in the area of the corridor is included with this application. *See* Appendix at Tab 3. The original corridor and route of Plains' existing Trenton Pipeline System was selected by Koch Pipeline Company, L.P., prior to the enactment of North Dakota's Energy Conversion and Transmission Facility Siting Act (the "Act"), and for the most part are compatible with the criteria established by the Act.

D.3. Relative Value of Each of the Criteria:

Since this application is a consolidated application for a corridor certificate and a route permit, these matters are discussed in Sections B.4, B.5 and B.6 of the route permit portion of the application.

D.4. Criteria to be Evaluated:

Since this application is a consolidated application for a corridor certificate and a route permit, these matters are discussed in Sections B.4, B.5 and B.6 of the route permit portion of the application.

D.5. General Mitigative Measures to be Taken:

Since this application is a consolidated application for a corridor certificate and a route permit, these matters are discussed in Sections B.4, B.5 and B.6 of the route permit portion of the application.

D.6. Qualifications of Persons Contributing to the Study:

The qualifications of the personnel who contributed to the corridor location study are as follows:

Edward E. Stine

501 4th Avenue NW, Mandan, North Dakota 58554

A curriculum vitae of Edward E. Stine is included with this application. *See* Appendix at Tab 5.

Damita Jean Hiemstra

1820 East Capitol Avenue, #323, Bismarck, North Dakota 58501

A curriculum vitae of Damita Jean Hiemstra is included with this application. *See* Appendix at Tab 5.

J.P. Davis

3900 Crestgate Avenue, Midland, Texas 79707

A resume of J.P. Davis is included with this application. *See* Appendix at Tab 5.

Daniel Jay Holli

303 6th Avenue NE, Belfield, North Dakota 58622

A resume of Daniel Jay Holli is included with this application. *See* Appendix at Tab 5.

D.7. Maps:

D.7.a Map of Criteria Within Study Area

Copies of maps set forth Exclusion and Avoidance Areas in relationship to the proposed route of the Buford Expansion Project are included with this application. *See* Appendix at Tab 3.

D.7.b Mylar maps of study area

Plains requests that this request be waived for this application. Color maps have been submitted with this application and Plains requests that these maps be substituted for the Mylar.

APPLICATION FOR ROUTE PERMIT

PLAINS PIPELINE, L.P.

APPLICATION FOR ROUTE PERMIT

SECTION A

DESCRIPTION OF PROPOSED FACILITY

A.1 Type of Facility

See Section A.1 of Corridor Certificate Application.

A.2 Product

See Section A.2 of Corridor Certificate Application.

A.3 Size and Design

See Section A.3 of Corridor Certificate Application.

A.4 Time Schedule

See Section A.4 of Corridor Certificate Application.

SECTION B

LOCATION

B.1 Applicant's Policies and Commitments to Limit Environmental Impact.

B.1.a Construction

Construction of the proposed Plains' Buford Expansion Project will be in accordance with the NPDES General Stormwater Permit obtained from the North Dakota Department of Health (*see* Appendix at Tab 6[1]); requirements of the United States Army, Corp of Engineers (*see* Appendix at Tab 7); requirements of the United States Department of Interior, Bureau of Reclamation (*see* Appendix at

[1] It should be noted that the NPDES General Stormwater Permit obtained from the North Dakota Department of Health also covers the proposed Trenton Expansion Project docketed as ND PSC Case No. PU-05-184.

Tab 8); Utility Permit No. 7-1804-329.2273 and Utility Permit No. 7-58-7.7159; obtained from the North Dakota Department of Transportation (*see* Appendix at Tab 9); the Office of the North Dakota State Engineer (*see* Appendix at Tab 10). In addition, Plains is committed to the protection of the environment, both in its construction and operation of its existing pipeline systems, as set forth in its Environmental, Health and Safety Policy. A copy of Plains' Environmental, Health and Safety Policy is included with this application. *See* Appendix at Tab 11.

B.1.b <u>Ongoing Pipeline Operation</u>

As the operator of the Plains' Pipeline System, Plains has an ongoing commitment to conduct its operations in an economically responsible manner. Substantial, continued effort is placed on pipeline integrity, operational safeguards, emergency response and landowner relationships, all of which reduce the impact of its pipelines on the environment. Included with this application is an outline of the "Response Activities and Resources" of Plains which sets forth a discussion of Plains' commitment to operating the Trenton Pipeline System in an environmentally responsible manner. *See* Appendix at Tab 11.

B.1.c Energy Conservation Considerations

Energy conservation is a major concern of Plains in the operations of its pipelines because energy/power costs for pumping stations are a large expense in pipeline operations. By implementing the Buford Expansion Project (replacing existing pipe with larger diameter pipe), the costs associated with transporting crude oil can be reduced on a per barrel basis. *See* Appendix at Tab 11.

B.2 Discuss the Factors Listed in Section 49-22-09 of the North Dakota Century Code to Aid the Commission's Evaluation of the Proposed Route

B.2.a Available research and investigations relating to the effects of the location, construction, and operation of the proposed facility on public health and welfare, natural resources, and the environment.

A discussion of the effects of the location, construction and operation of the proposed Buford Expansion Project on the public health and welfare, natural resources and the environment is included in Section B.4 of this application. Research and investigations relating to these effects have included extensive cultural resource reviews, protected species and sensitive area reviews. Plains has also made application and received permits and/or approval for its proposed Buford Expansion Project from the following state and federal agencies:

- United States Department of the Interior, Bureau of Reclamation
- United States Department of the Army, Corps of Engineers
- United States Fish and Wildlife Service
- North Dakota Department of Game and Fish
- North Dakota State Historical Society
- North Dakota Department of Transportation
- North Dakota Office of State Engineer

Plains has worked closely with and consulted all appropriate federal, state and local agencies having jurisdiction over the environmental issues related to the proposed Buford Expansion Project. If Plains' application for a corridor certificate and route permit are approved, Plains will continue in its efforts to work closely with all the federal, state and local regulatory bodies involved in this project.

B.2.b The effects of new energy conversion and transmission technologies and systems designed to minimize adverse environmental effects.

The proposed Buford Expansion Project does not include new energy conversion and transmission technologies that are expressly designed to minimize adverse environmental effects. As described in Plains' NPDES General Stormwater Permit, modern construction techniques and mitigation measures will be employed to minimize the effect on the environment as a result of construction and installation of the proposed Buford Expansion Project. A copy of the NPDES General Stormwater Permit is included with this application. *See* Appendix at Tab 6. These measures are also discussed in Section B.6 and B.9 of this application.

B.2.c The potential for beneficial uses of waste energy from a proposed energy conversion facility.

This project does not involve new energy conversion facilities; no usable waste energy will result from this project.

B.2.d Adverse direct and indirect environmental effects which cannot be avoided should the proposed site or route be designated.

Unavoidable adverse direct and indirect environmental effects may include short-term or temporary effects on vegetation, agricultural operations and noise levels as described in Section B.4 of this application. Plains will implement mitigation measures to minimize these impacts as described in Section B.6 of this application.

B.2.e Alternatives to the proposed site, corridor or route, which are developed during the hearing process and which minimize adverse effects.

Because Plains is requesting a waiver of the requirements for public hearings on its applications for a Corridor Certificate and Route Permit for its

proposed Buford Expansion Project, no alternatives to the proposed corridor and route are anticipated to be developed during the hearing process. Alternative methods for serving the need to be met by the proposed project are discussed in Section C.2 of the Corridor Certificate Application.

B.2.f Irreversible and irretrievable commitments of natural resources should the proposed site, corridor or route be designated.

Plains is proposing the construction and installation of a pipeline within an existing corridor which was established prior to the enactment of North Dakota's Energy Conversion and Transmission Facility Siting Act (the "Act"); therefore, minimal irreversible or unretrievable commitments of natural resources will result from this project.

B.2.g The direct and indirect economic impacts of the proposed facility.

As set forth in Section C.2 of the Corridor Certificate Application, Plains' proposed Buford Expansion Project presents an opportunity for Plains to meet the growing needs of crude oil transportation from the Richland County Bakken Field located near Sidney, Montana. Plains' proposed Buford Expansion Project provides the most cost-effective method of moving crude oil for producers in the Richland County Bakken Field to Plains' Trenton Station located near the city of Williston, North Dakota, and then to various refineries across the country. The only other alternative to Plains' proposed Buford Expansion Project would be to employ additional tanker trucks to transport the current and anticipated future increases in production of crude oil. The negative effects of employing tanker trucks to transport current and anticipated future increases in crude oil production from the

Richland County Bakken Field are set forth in Section C.2 of the Corridor Certificate Application.

B.2.h Existing plans of the state, local government, and private entities for other developments at or in the vicinity of the proposed site, corridor, or route.

Plains is not aware of any other plans for the construction and installation of pipelines, electric transmission lines or the construction of any other facilities in the vicinity of the proposed Buford Expansion Project.

B.2.i The effect of the proposed site or route on existing scenic areas, historic sites and structures, and paleontological or archaeological sites.

A thorough cultural resources review was conducted in the area of the proposed Buford Pipeline Expansion. A copy of the report generated by the review was provided to the State Historical Society of North Dakota ("SHSND"). After a review of the report, the SHSND has concurred that no historic properties will be affected by the Buford Expansion Project. A copy of the letter from the SHSND confirming that no historical properties will be affected is included with this application. *See* Appendix at Tab 12.

B.2.j The effect of the proposed site or route on areas which are unique because of biological wealth or because they are habitats for rare and endangered species.

Plains contacted the North Dakota Game and Fish Department and the United States Fish and Wildlife Service to advise these agencies of the proposed route of the Buford Expansion Project. To date no response has been received from these agencies.

B.2.k Problems raised by federal agencies, other state agencies, and local entities.

Plains is not aware of any problems which have been raised by the federal,

state or local agencies to the proposed Buford Expansion Project.

B.3 Identify and Map Criteria Leading to Proposed Route Location within Corridor

The following criteria which include but are not limited to the criteria set forth in Section 69-06-08-02 of the North Dakota Administrative Code were considered in evaluating the location of the proposed route:

Location, Construction and Operation

Exclusion & Avoidance Areas

Human Environment

Cultural Resources

Vegetation/Wildlife Land Use

Discussions of these criteria are provided in Sections B.4, B.5 and B.6 of this application. A map showing the location of the pipeline for the proposed Buford Expansion Project is included with this application. *See* Appendix Tabs 1-2.

B.4 Relative Value and Effects Upon Each Criteria Including Location, Construction, and Operation of the Facility

In accordance with the provisions of Chapter 69-06-08 of the North Dakota Administrative Code, the proposed corridor and route for the Buford Expansion project was selected after consideration of its impact on humans and the environment. Adverse effects of construction and installation of approximately 4.62 miles of 10-inch pipeline (which constitute the proposed Buford Expansion Project) are substantially minimized by locating the new line within or adjacent to existing pipeline easements for the existing Buford Pipeline System in this area.

Underground pipeline installation minimizes potential impacts on human or animal welfare and aesthetics. Construction and installation of the new pipe for the proposed Buford Expansion Project will cause temporary disruption to the environment, but will not result in any long-term changes to the environment. The following is a general analysis of the existing human and natural environment along the route and the potential impacts of pipeline right-of-way preparation, construction, installation and operations of the proposed Buford Expansion Project.

B.4.a Exclusion and Avoidance Areas (Chapter 69-06-08 of the North Dakota Administrative Code)

The North Dakota Public Service Commission has identified certain sensitive or otherwise important environmental features which must be considered during the selection of a route for transmission facilities. These features have been classified as either "Exclusion Areas" or "Avoidance Areas." As defined in Chapter 69-06-08 of the North Dakota Administrative Code, Exclusion Areas are areas that are to be excluded from consideration for energy conversion sites and transmission facility routes. Avoidance Areas are areas not to be considered in the routing of a transmission facility unless it is shown that, under the circumstances, there are no reasonable alternatives.

Plains has made a thorough study and review to identify any Exclusion and Avoidance Areas along the proposed route of its Buford Expansion Project. The table immediately below lists each type of Avoidance or Exclusion Area, category, and administering agency, and indicates whether each type of area is crossed by the route. Several Exclusion Areas are located within the vicinity of the proposed route. Also several Avoidance Area were identified as crossed by the proposed route.

B.4.a. Specific Avoidance and Exclusion Areas

Avoidance and Exclusion Area	Category	Crossed By Route	Administering Agency
National Memorial Parks	Exclusion	No	National Park Service
National Historic Sites and Landmarks	Exclusion	No	National Park Service
National Natural Landmarks	Exclusion	No	National Park Service
National Wilderness Areas	Exclusion	No	National Park Service U.S. Forest Service
National Parks	Exclusion	No	National Park Service
National Monuments	Exclusion	No	National Park Service State Historical Society
State Parks	Exclusion	No	State Park Service
State Historic Sites	Exclusion	Yes	State Historical Board
State Historical Markers	Exclusion	No	State Historical Board
State Archaeological Sites	Exclusion	No	State Historical Board
State Monuments	Exclusion	No	State Historical Society
State Nature Preserves	Exclusion	No	State Park Service
Areas Critical to the Life Stages of Threatened or Endangered Animal or Plant Species	Exclusion	Yes	USFWS
Areas Where Animal or Plant Species Unique or Rare in the State Would be Irreversibly Damaged	Exclusion	No	Various
County Parks and Recreation Areas, Municipal Parks, and Parks under other Governmental Jurisdiction	Exclusion	No	Various
National Wildlife Areas	Avoidance	No	USFWS
National Wildlife Refuges	Avoidance	No	USFWS
National Grasslands	Avoidance	No	U.S. Forest Service
National Historic Districts	Avoidance	No	State Historic Society

Avoidance and Exclusion Area	Category	Crossed By Route	Administering Agency
National Wild, Scenic or Recreational Rivers	Avoidance	No	Heritage Conservation Recreation Services, State Outdoor Recreation Agency
State Wild, Scenic or Recreational Rivers	Avoidance	No	State of North Dakota Legislative Assembly
State Game Refuges	Avoidance	No	North Dakota Game and Fish Department
State Game Management and Management Areas	Avoidance	No	North Dakota Game and Fish Department
State Forests	Avoidance	No	State Forest Service
State Forest Management Lands	Avoidance	No	State Forest Service
State Grasslands	Avoidance	No	State Park Service
Irrigated Land	Avoidance	Yes	State Water Commission
Areas of Historic, Archaeological or Paleontological Significance	Avoidance	Yes	State and County Historical Society
Areas of Recreational Significance	Avoidance	Yes	Various
Reservoirs	Avoidance	No	U.S. Army Corps of Engineers State Water Resource Commission
Municipal Water Supplies	Avoidance	No	State Water Resource Commission
Water Sources for Organized Rural Water Districts	Avoidance	No	State Water Commission
Wooded Areas	Avoidance	Yes	State Forest Service
Woodlands	Avoidance	Yes	Geological Survey
Areas which are Geologically Unstable	Avoidance	No	State Geologist Geological Survey

Avoidance and Exclusion Area	Category	Crossed By Route	Administering Agency
Within 500 Feet of a Farmhouse, Rural Residence or Place of Business	Avoidance	Yes	Landowner

B.4.a.(1) State Historical Sites

The existing Trenton Pipeline System as originally constructed in 1968 by Koch Pipeline Company, L.P. crosses a state historic site, Fort Buford in Section 16, Township 152, Range 104, Williams County, North Dakota. Because Plains plans to deviate from the existing route of the current Trenton Pipeline System or utilize directional drilling technology with respect to the Buford Expansion Project, the project is not anticipated to impact this site. *See* Appendix, Tab 1.

B.4.a.(2) Areas Critical to the Life Stages of Threatened or Endangered Animal or Plant Species

The proposed route of the Buford Expansion project crosses the Missouri River approximately 1½ miles southwest of Buford, North Dakota. This area of the Missouri River has been identified as habitat for the Pallid Sturgeon, the Least Tern and the Piping Plover. Because Plains intends to utilize directional drilling technology to cross the Missouri River, the Buford Expansion Project is not anticipated to impact these animal species.

B.4.a.(3) Irrigated Land

The proposed route of the Buford Expansion Project crosses some irrigated land. Because Plains intends to utilize directional drilling technology to cross irrigation ditches, the Buford Expansion Project is not anticipated to impact these irrigated lands.

B.4.a.(4) Areas of Historic, Archaeological or Paleontological Significance

The proposed route of the Buford Expansion Project crosses several sites that have been identified as areas of historic, archaeological or paleontological significance. Because Plains intends to utilize directional drilling technology to cross the these areas, the Buford Expansion Project is not anticipated to impact these areas of historic, archaeological or paleontological significance.

B.4.a.(5) Areas of Recreational Significance

The proposed route of the Buford Expansion Project crosses the Missouri River approximately 1½ miles southwest of the city of Buford, North Dakota. The Missouri River in this area is utilized for fishing, boating and other recreational purposes. Because Plains intends to utilize directional drilling technology to cross the Missouri River, the Buford Expansion Project is not anticipated to impact the recreational activities in this area.

B.4.a.(6) Wooded Areas

The proposed route of the Buford Expansion Project crosses the Missouri River approximately 1½ miles southwest of the city of Buford, North Dakota. Portions of this area are heavily wooded. Route selection included locating the beginning point of its directional drilling activities on the southwest side of the Missouri River and the terminus of the directional drilling activities on the northeast side of the river in locations that did not require any clearing of wooded areas. Because Plains selected cleared areas for the beginning and end points of its proposed directional drilling operations of the Missouri River, the Buford Expansion Project is not anticipated to impact woodlands.

B.4.a.(7) Woodlands

See Section B.4.a.(6) of this application.

B.4.a.(8) Areas within 500 feet of Farmhouse, Rural Residence, or Place of Business

The proposed route will pass near several farmhouses or rural residences. Included with this application is a map which sets forth the location of the pipeline for the proposed Buford Expansion Project and the distance to farmhouses or residences. *See* Appendix at Tab 13.

B.4.b Selection Criteria (Section 69-06-08-02.3 of the North Dakota Administrative Code)

Rules and regulations of the North Dakota Public Service Commission specify several selection criteria to be considered in designating a corridor or route. Specifically, the Commission considers whether any significant adverse effect will result from the location, construction and operation of the facility as they relate to these criteria, whether the effects will be at an acceptable minimum, and whether the effects will be managed and maintained at an acceptable minimum. Potential impacts as they relate to each of the selection criteria are discussed below. Measures Plains will implement to minimize these impacts are noted below and discussed in greater detail in Section B.6 of this application.

B.4.b.(l) Impact on Agriculture

Agricultural Production

The proposed pipeline will be constructed and installed within or adjacent to existing Plains' pipeline rights-of-way in McKenzie and Williams County, North Dakota, in an area approximately ¼ mile southeast of the city of Buford, North Dakota to the southwest approximately 4 miles to the Montana/North Dakota border.

Crop Land

The proposed Buford Expansion Project will have only a minor effect on agricultural land use. The pipeline for the proposed Buford Expansion Project will be buried to a depth of 48 inches so

as to not have an impact on typical tillage operations in the area. Therefore, the pipeline will not interfere with normal agricultural operations on crop land after construction is complete. A potential impact of pipeline construction and installation to crop land crossed by the route of the proposed Buford Expansion Project is a temporary loss of soil productivity immediately following construction. Crop production will be disrupted in cases where the construction period overlaps with the growing season. Approximately 3/4ths of the route of the proposed Buford Expansion Project crosses agricultural crop land comprised of wheat, sugar beats and other agricultural crops.

Pasture

The proposed Buford Expansion Project will also have minimal impact on pasture land. Construction and installation of the pipeline for the proposed Buford Expansion Project will have only a minimal temporary impact on the agricultural pasture land crossed by the route.

Family Farms and Ranches

The construction of the proposed Buford Expansion Project will not result in long term disruptions of family farming operations. Payments made in connection with the acquisition of easements will benefit landowners along the proposed route.

Land Suitable for Irrigation

The construction of the proposed Buford Expansion Project will result in crossing some lands that are presently being irrigated. Because Plains intends to utilize directional drilling technology to cross irrigation ditches, the Buford Expansion Project is not anticipated to impact these irrigated lands.

B.4.b.(2) Impact on Noise Sensitive Land Uses

Three (3) farmsteads with houses and other structures are located within 500 feet of the right-of-way for the new pipeline for the proposed Buford Expansion Project. There are no other sensitive noise receptors such as schools or hospitals in the vicinity of the proposed Buford Expansion Project. During construction and installation of the pipeline for the Buford Expansion Project, residences in close proximity to the construction will be exposed to short-term increases in construction-related noise. The heavy construction equipment needed to construct and install the new pipeline for the Buford Expansion Project will generate short-term increases in ambient noise levels. Increases in ambient noise levels due to construction and installation of the line will be limited to the period of construction (estimated to be approximately 60 days) and to daylight hours. No noise will be generated along the right-of-way of the proposed Buford Expansion Project after construction and installation is complete. There will be no noise increases at the

existing Buford Station as a result of the proposed Buford Expansion Project.

B.4.b.(3) Impact on Visual Effect on the Adjacent Area

The only above ground facilities that will be constructed as part of the proposed Buford Expansion Project are four block valves. Other than these permanent above ground facilities, the proposed Buford Expansion Project will result in only short-term visual effects related to construction activities.

B.4.b.(4) Impact on Extractive and Storage Resources

No extractive and storage resources will be affected by the proposed Buford Expansion Project.

B.4.b.(5) Impact on Wetlands

Construction of the proposed Buford Expansion Project will not result in the permanent drainage or filling of wetlands. Because Plains intends to utilize directional drilling technology to cross the Missouri River and the adjacent wetlands, the Burford Expansion Project is not anticipated to impact any wetlands crossed by the project.

B.4.b.(6) Impact on Woodlands and Wooded Areas

Because of the selected route of the proposed Buford Expansion Project, no clearing operations will be required.

B.4.b.(7) Impact on Radio and Television Reception, and Other Communication or Electronic Control Facilities

No effects on radio or television reception or radio reception, communication or electronic control facilities are anticipated to be affected by the proposed Buford Expansion Project.

B.4.b.(8) Impact on Human Health and Safety

Plains is committed to taking aggressive measures to prevent spills and environmental damage. *See* Appendix at Tab 11. The new segment of pipeline for the proposed Buford Expansion Project will be hydrostatically tested and inspected prior to putting the same into service.

B.4.b.(9) Impact on Animal Health and Safety

Because of the short duration involved in constructing and installing the proposed Buford Expansion Project, the project is not anticipated to have any significant impact on animal health and safety in the area of the project.

B.4.b.(10) Impact on Plant Life

During the construction and installation phase of the pipeline for the proposed Buford Expansion Project, vegetation will be removed from the construction right-of-way. After construction is complete, no significant changes in plant life or land use is anticipated.

B.4.c Policy Criteria (Section 69-06-08-02.4 of the North Administrative Code)

The North Dakota Public Service Commission may give preference to an applicant that will maximize benefits resulting from the adaptation of policies and practices of the Commission. These policies, and the extent to which this project aligns with or reenforces those policies are described below.

B.4.c.(1) Location and Design

Plains believes that the pipeline for the proposed Buford Expansion Project has been placed in the optimal alignment. Several exclusion areas will be crossed by the proposed Buford Expansion Project, as set forth above. However, because Plains intends to utilize directional drilling technology to cross these Exclusion Areas (State Historical Site; Areas Critical to Life Stages of Threatened or Endangered Animal or Plant Species), the project is not anticipated to impact these areas. Likewise, Avoidance Areas (Irrigated Land; Areas of Historical, Archaeological or Paleontological Significance; Areas of Recreational Significance; Wooded areas; and Woodlands) crossed by the proposed Buford Expansion Project will be crossed utilizing directional drilling technology; therefore, the project is not anticipated to impact these areas. Further, the proposed alignment is within or adjacent to Plains' existing pipeline right-of-way, minimizing the needs for new right-of-way and the environmental and human impacts associated with a new route. In addition, the proposed Buford Expansion

Project will be designed and operated in a manner that meets or exceeds state and federal engineering, safety and operational designs.

B.4.c.(2) Training and Utilization of Available Labor in this State for the General and Specialized Skills Required

No training of local labor is anticipated as a direct result of the proposed Buford Expansion Project. During construction of the proposed Buford Expansion Project, skilled and unskilled labor, both local and non-local workers will be employed by Plains or the general contractor selected by Plains to construct and install the pipeline for the proposed Buford Expansion Project.

B.4.c.(3) Economies of Construction and Operation

The proposed Buford Expansion Project is believe to be the most cost effective and operationally sound means of meeting Plains' delivery obligations to its customers in Richland County, Montana, and McKenzie and Williams Counties, North Dakota. These matters are addressed in further detail in Section B.2.g of this application and Sections C.2 of the Corridor Certificate Application.

B.4.c.(4) Use of Citizen Coordinating Committees

No citizen coordinating committee is anticipated as a result of the proposed Buford Expansion Project.

B.4.c.(5) Commitment of a Portion of the Transmitted Product for Use in this State

All crude oil transported by the existing Buford Pipeline System and the proposed Buford Expansion Project will be transported to Plains' Trenton Station for delivery to Enbridge Pipelines (North Dakota) LLC. Some portion of the crude oil volume transported by Plains to Enbridge Pipeline eventually ends up at the Tesoro Refinery in Mandan, North Dakota.

B.4.c.(6) Labor Relations

The proposed project will have no anticipated effect on labor relations within North Dakota.

B.4.c.(7) Coordination of Facilities

The proposed Buford Pipeline Expansion has been designed to optimally utilize Plains' existing transportation system.

B.4.c.(8) Monitoring of Impacts

Plains believes that construction-related impacts will be adequately mitigated throughout the proposed route by the use of best management practices, good construction techniques and environmental inspections; therefore, long-term monitoring of impacts directly related to the proposed pipeline expansion is not anticipated. Following the installation of the new pipe for the proposed Buford Expansion Project, a thorough inspection will be performed to ensure restoration efforts have been successful.

B.4.c.(9) Utilization of Existing and Proposed Rights-of-way and Corridors

The proposed Buford Expansion Project will occur within or adjacent to Plains' existing right of way. Construction activities will generally utilize 50 foot wide construction right of way. Additional temporary work space adjacent to the construction right of way may be necessary for construction in certain areas. Plains will acquire certain work space from the landowner where necessary; use of unauthorized work space is prohibited without the landowner and Plains' approval. In all cases, the size of extra work space will be kept to the minimum necessary to safely conduct work. Temporary working areas will revert to landowners upon completion of construction and installation of the pipeline for the proposed Buford Expansion Project.

B.4.c.(10) Other Existing and Proposed Transmission Facilities

The proposed Buford Expansion Project is in addition to the existing Buford Pipeline System operated by Plains within the states of Montana and North Dakota. Plains also operates the following pipeline systems: Killdeer Pipeline System located in Dunn County, North Dakota; Whitetail Pipeline System located in Billings County, North Dakota; TR Pipeline System located in Billings, Stark and Dunn Counties, North Dakota; Bowman Pipeline System located in

Bowman County, North Dakota; Fallon County, Montana and Harding County, South Dakota.

B.4.d Design and Construction Limitations

See Section A.3 of Corridor Certificate Application.

B.4.e Economic Considerations

See Section B.2.g of this application and Section C of Corridor Certificate Application.

B.4.f Human Environment

The proposed Buford Expansion Project will be constructed within or adjacent to existing Plains' right-of-way in McKenzie and Williams Counties, North Dakota. The project area is sparsely populated and farming and ranching is the predominate economic activity. Only three (3) rural residence is located within 500 feet of the right-of-way for the proposed Buford Expansion Project.

B.4.g Terrain and Geology

Except for the area of the proposed Buford Expansion Project crossing the Missouri River, the route traverses relatively level terrain. No special problems are anticipated in construction and installation of the proposed Buford Expansion Project because of terrain or geology.

B.4.h Soils

The route of the Buford Expansion Project crosses agricultural cropland and pasture. Soil productivity could be impacted if topsoil were to become mixed with subsoil during construction. To minimize this, potential topsoil will be segregated

from subsoil during trench excavation. Topsoil will be stored separately from trench subsoil and will then be returned to the surface after the trench is backfilled.

B.4.i Vegetation and Wildlife

Vegetation:

The route of the proposed Buford Expansion Project crosses primarily agricultural land. The primary impact on vegetation will result from construction-related removal or destruction of vegetation on the right-of-way. Plains will clear the right-of-way only to the extent necessary to assure suitable access for construction, safe operation and maintenance of the new pipeline. In areas that require permanent vegetation (pasture lands or hay lands), Plains will specify appropriate seed mixes, application rates and seeding dates, taking into account recommendations of appropriate federal, state and local agencies and landowner requests.

Wildlife:

Plains has contacted the North Dakota Game and Fish Department, the United States Fish and Wildlife Service and Fauna West Wildlife Consultants located in Billings, Montana, regarding its proposed Buford Expansion Project. As a result of Plains' plans to directionally drill the Missouri River and associated wetlands. No threatened or endangered plant or animal species are likely to be impacted by the proposed Buford Expansion Project.

B.4.j Land Use

Agriculture is the predominant use of land in the area of the proposed Buford Expansion Project. The project will have a temporary effect on agricultural

use. Crop production will be disrupted in cases were the construction period overlaps with the growing season. In those areas where the proposed Buford Expansion Project crosses pasture land, there will be temporary loss of grazing lands until permanent vegetation is reestablished.

B.4.k Water Resources-Ground Water

No wells will be installed or abandoned as part of the proposed Buford Expansion Project.

Water Resources- Surface Water

Streams:

The proposed Buford Expansion Project crosses the Missouri River (and adjacent lakes, pools and wetlands) approximately 1½ miles southwest of the city of Buford, North Dakota. The Missouri River will be crossed utilizing directional drilling techniques designed to eliminate disturbance to a waterbody's banks and beds. For the directional drilling operations necessary to cross the Missouri River, temporary extra work space will be established at both the beginning point and the terminus point as staging areas for the operation. Directional drilling operations essentially eliminates increases in sediment that would result from trenching the banks and bed of the river.

Lakes and Ponds:

See "Streams" above.

Wetlands:

See "Streams" above.

Water Use:

The proposed Buford Expansion Project will not have any effect on water use patterns in that following construction the lands crossed by the Buford Expansion Project will be restored to as near as possible or their original condition.

The proposed Buford Expansion Project will require the appropriation of water to hydrostatically test the new pipeline. Plains intends to make contact with appropriate officials with the city of Buford to purchase municipal water for this operation.

Surface Water Runoff:

Potential construction-related effects on surface waters are primarily related to sedimentation from uncontrolled erosion of disturbed areas.

Plains has obtained from the North Dakota Department of Health a NPDES General Stormwater Permit. A true and correct copy of the NPDES General Stormwater Permit is included with this application. *See* Appendix at Tab 6.

Discharges to Surface Waters:

During construction, waste water will be generated from hydrostatically testing the new pipeline prior to placing it in service. This water will be discharged in accordance with the NPDES General Stormwater Permit.

B.4.1 Cultural Resources

A thorough cultural resources review has been conducted of the area of the proposed Buford Expansion Project. Because Plains plans to utilize directional drilling technology in certain areas, no cultural resources will be affected by the project.

B.5 The criteria to be evaluated shall include at a minimum all of the following which are within the designated corridor:

a. Exclusion areas;

b. Avoidance areas;

c. Selection criteria;

d. Policy criteria;

e. Design and construction limitations; and

f. Economic Considerations.

Complete descriptions, potential impacts and mitigation measures relevant to the six criteria cited above are provided in Sections B.4 and B.6 of this application.

B.6 Mitigation Measures

Some of the protection, mitigation and restoration measures Plains will implement have been described in Section B.4 in conjunction with the descriptions of potential impacts. A discussion of additional measures Plains will employ follows:

B.6.a Measures to Preserve the Human Environment

Plains will require its construction contractor to clean up on a daily basis personal litter, bottles and paper deposited by right-of-way preparation and construction crews. Waste and scrap that is the product of pipeline construction will be removed or properly disposed of in accordance with applicable regulations before construction ends.

Plains will, to the extent practicable, restore the area affected by the pipeline construction to the conditions that existed immediately before construction of the

pipeline. Restoration will be compatible with the safe operation, maintenance, and inspection of the pipeline.

To the maximum extent practicable, Plains will minimize noise and dust resulting from construction near residential areas.

B.6.b Measures to Protect Terrain and Geological Resources

Plains will, to the maximum extent practicable, restore the area affected by the pipeline construction to the natural conditions that existed immediately before construction of the pipeline. Restoration will be compatible with the safe operation, maintenance, and inspection of the pipeline.

To the maximum extent practicable, Plains will restore the construction area to pre-construction contours. Measures such as slope breakers, erosion control blankets and revegetation will be employed to maintain the stability of slopes along the right-of-way.

Fuel and other hazardous materials will be stored in accordance with the requirements of Plains' NPDES General Stormwater Permit. The Permit also describes response, containment and cleanup measures. A copy of NPDES General Stormwater Permit is included with this application. *See* Appendix at Tab 6.

B.6.c Measures to Protect Soils

Plains will implement temporary and permanent erosion control measures as specified in Plains' NPDES General Stormwater Permit. Requirements of the Permit will be included as conditions in the construction contract documents and enforced as such throughout the project.

Temporary erosion and sedimentation control measures may include installation of silt fence, straw bales, slope breakers, trench breakers, erosion control fabric and mulch.

Compaction of agricultural soils will be minimized by restricting construction activities during period of prolonged rainfall. Where unacceptable levels of compaction occur in agricultural lands, deep tillage, a chisel plow or other deep tillage equipment will be utilized to loosen the soil to the reasonable satisfaction of the landowner.

B.6.d Measures to Protect Vegetation and Wildlife

Plains will clear the right-of-way only to the extent necessary to assure suitable access for construction, safe operation, and maintenance of the pipeline.

In areas that require permanent revegetation, Plains will specify appropriate seed mixes, application rates, and seeding dates, taking into account recommendation of appropriate state and federal agencies and landowner requests. Consequently, significant changes in cover types are not anticipated.

B.6.e Measures to Protect Land Use Patterns

Plains will repair or replace fences and gates removed or damaged as a result of right-of-way preparation, construction or maintenance activities.

The proposed pipeline will be installed at a minimum depth of 48 inches from the surface contour to minimize the potential for environmental damage resulting from deep tillage activities unless modified to accommodate special construction issues at the site.

B.6.f Measures to Protect Water Resources

Measures to protect water resources have been discussed to some extent in Section B.4.k, Water Resources, and in previous mitigation sections on soils (Section B.6.c) and vegetation and wildlife (Section B.6.d). Plains' NPDES General Stormwater Permit describes these measures in detail. Temporary sediment control measures such as silt fence installed at each crossing will minimize the movement of spoil and sediment from surface runoff during the after construction. Permanent erosion control measures, such as vegetation and installation of slope breakers, will effectively stabilize riparian zones.

Water appropriations for hydrostatic testing will be conducted in accordance with applicable permits. Plains will conduct trench dewatering and hydrostatic test discharges in a manner consistent with the NPDES General Stormwater Permit obtained from the North Dakota Department of Health.

B.6.g Measures to Protect Cultural Resources

A thorough cultural resources review was conducted in the proposed project area during the planning of Plains' Buford Expansion Project.

Plains has met with the SHSND and been advised that no historical properties are affected by the proposed Buford Expansion Project. Plains will continue to keep the SHSND advised if any cultural resources are discovered during construction and installation of the pipeline for the proposed Buford Expansion Project.

B.7 Qualifications of Persons Contributing to the Study

See Section D.6 of the Application for Corridor Certificate.

B.8 Maps

See Section D.7 of the Application for Corridor Certificate.

B.9 Other Matters

In accordance with Section 49-22-08 of the North Dakota Century Code, Plains requests leave to file such other and additional information and documents as the Commission may require to supplement its Application for Route Permit.

BEFORE THE PUBLIC SERVICE COMMISSION

STATE OF NORTH DAKOTA

CASE NO. PU-05-185

IN THE MATTER OF THE APPLICATION OF PLAINS PIPELINE, L.P., FOR THE CONSTRUCTION OF APPROXIMATELY 4.62 MILES OF 10-INCH PIPELINE IN MCKENZIE AND WILLIAMS COUNTIES, NORTH DAKOTA, ADJACENT TO THE SOUTHERNMOST NORTH DAKOTA PORTION OF THE TRENTON PIPELINE SYSTEM FOR THE PURPOSE OF INCREASING CAPACITY OF THE PIPELINE IN TRANSPORTING CRUDE OIL FROM RICHLAND COUNTY, MONTANA AND MCKENZIE AND WILLIAMS COUNTIES, NORTH DAKOTA, FOR DELIVERY TO TRENTON STATION LOCATED APPROXIMATELY 5 MILES SOUTHWEST OF WILLISTON, NORTH DAKOTA.

APPENDIX

TO THE CONSOLIDATED APPLICATION OF PLAINS PIPELINE, L.P. FOR WAIVER OF PROCEDURES AND TIME SCHEDULES AND FOR CERTIFICATE OF CORRIDOR COMPATIBILITY AND ROUTE PERMIT

July 25, 2005

PEARCE & DURICK
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Attorneys for Applicant, Plains Pipeline, L.P.
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Post Office Box 400
Bismarck, North Dakota 58502

Proposed Pipeline Route

1500' 0 1500' 3000'
scale 1"=3000' feet

N

Rev'd. 06/13/2005

Plains Marketing
Trenton Expansion
Richland County, MT/McKenzie & Williams Counties, ND

SHEET NO. 1

Kadrmas Lee & Jackson
Engineers, Surveyors and Planners

10" Crude Line
PROJECT MAP
PHASE III

DRWN. BY	CHK'D BY	PROJECT NO.	DATE
EMM	CMH	3704155	06/10/2005

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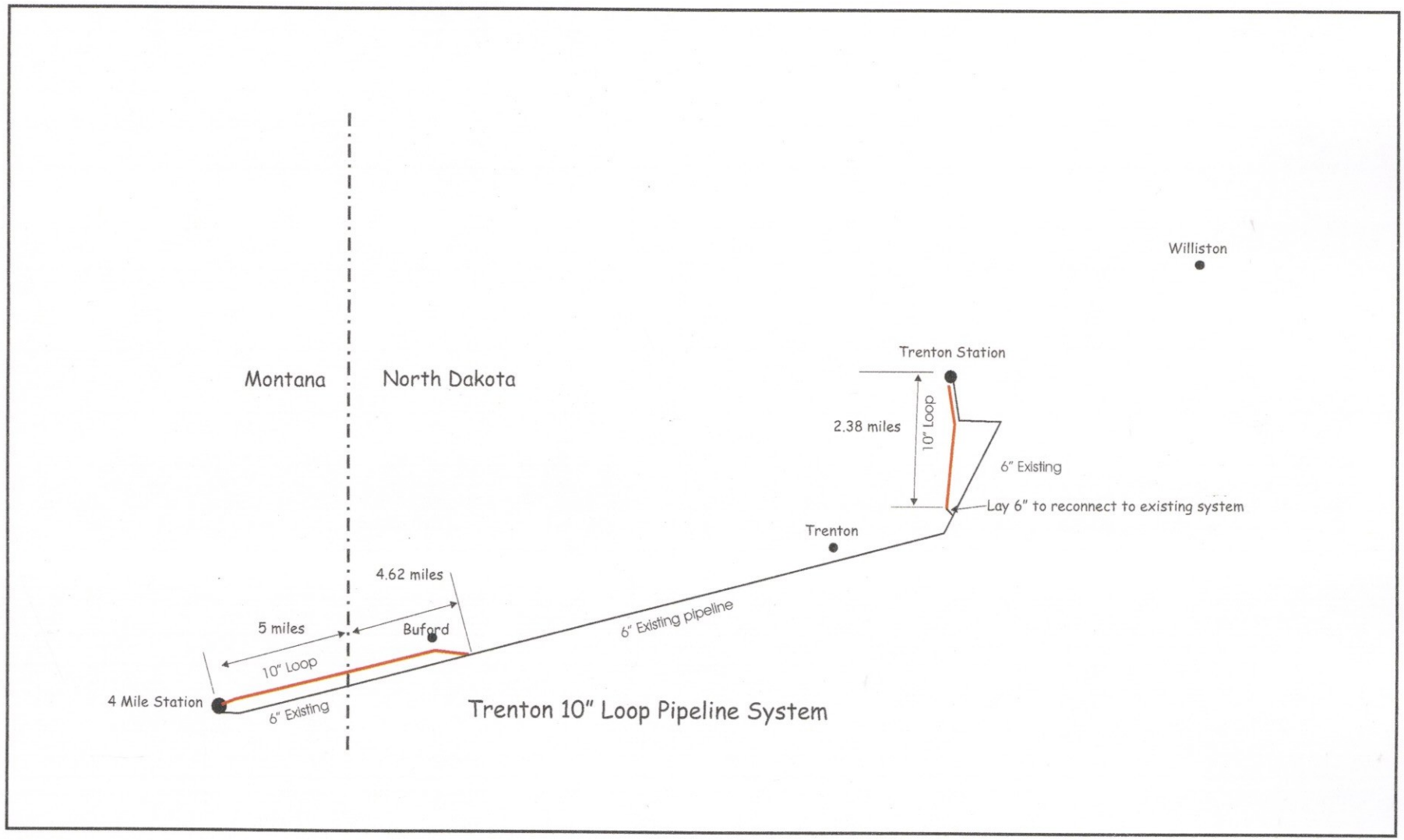
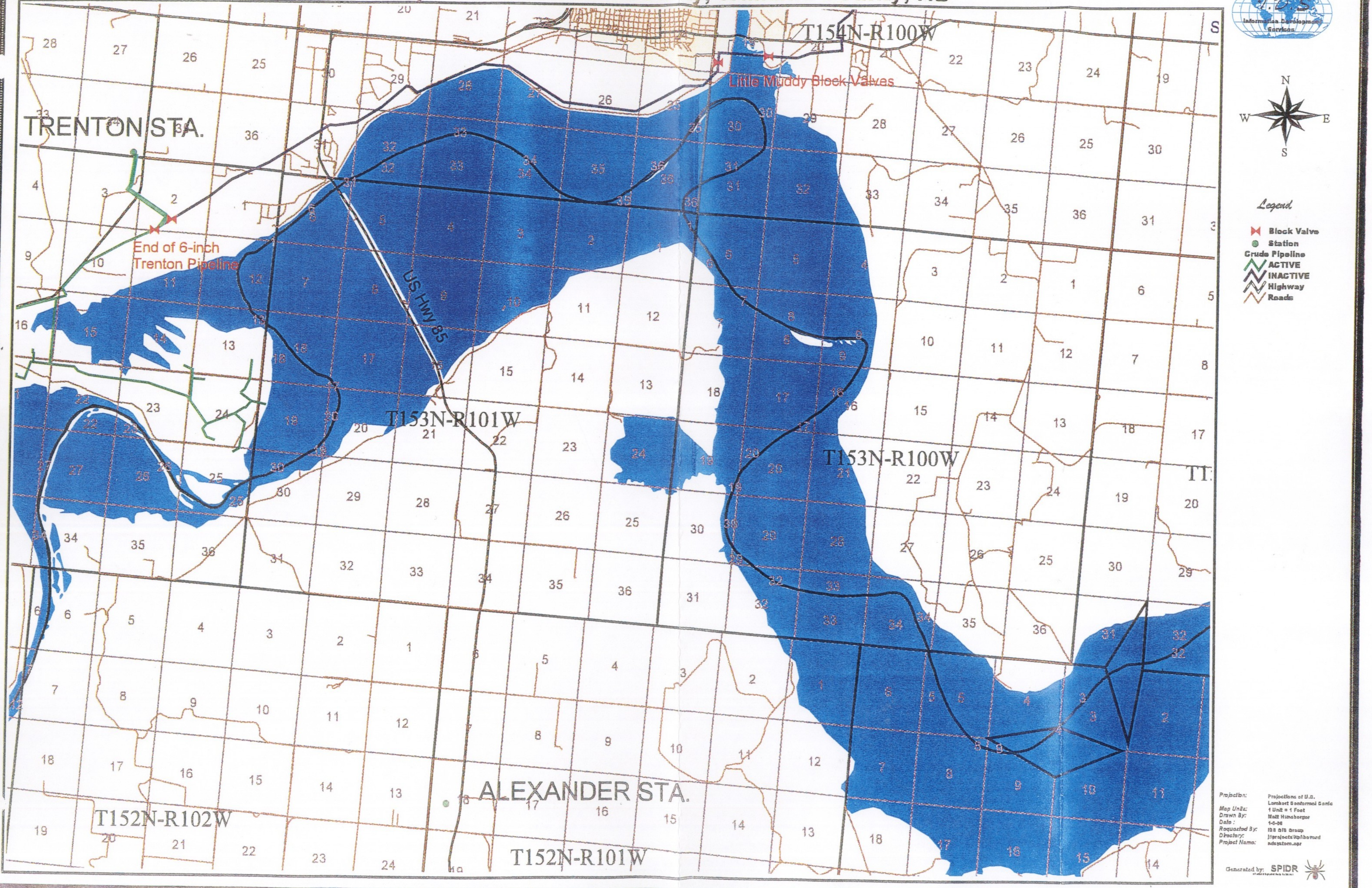

Williston
Trenton Station
Montana
North Dakota
2.38 miles
10" Loop
6" Existing
Lay 6" to reconnect to existing system
Trenton
4.62 miles
5 miles
Buford
10" Loop
6" Existing pipeline
4 Mile Station
6" Existing
Trenton 10" Loop Pipeline System

A4 North Dakota System - McKenzie County, Williams County, ND


TRENTON STA.
End of 6-inch Trenton Pipeline
Little Muddy Block Valves
US Hwy 85
ALEXANDER STA.
T154N-R100W
T153N-R101W
T153N-R100W
T152N-R102W
T152N-R101W
N
S
E
W
Information Development Services
Legend
Block Valve
Station
Crude Pipeline
ACTIVE
INACTIVE
Highway
Roads
Projection: Projections of U.S. Lambert Conformal Conic
Map Units: 1 Unit = 1 Foot
Drawn By:
Date :
Requested By:
Directory:
Project Name:
Generated by: SPIDR

A3

North Dakota System - Richland County, MT/ McKenzie County, Williams County, ND

T27N-R59E

T153N-R104W

T153N-R103W

T153N-R102W

T26N-R59E

T152N-R104W

T152N-R103W

East Missouri River Block Valve

West Missouri River Block Valve

N

W E

S

Legend

- Block Valve
- Station

Crude Pipeline
- ACTIVE
- INACTIVE

Highway

Roads

Projection:	Projections of U.S. Lambert Conformal Conic
Map Units:	1 Unit = 1 Foot
Drawn By:	Matt Hunsberger
Date:	1-8-08
Requested By:	ibs gis group
Directory:	i:\projects\dphboard
Project Name:	ndsystem.apr

Generated by: SPIDR

3

Plains Pipeline Trenton Loop: A Class III Cultural Resource Inventory in Williams and McKenzie Counties, North Dakota

NDSHPO Review #05-0635

Prepared for:
Plains Pipeline
Belfield, North Dakota

Principal Investigator:
Ed Stine

Prepared by;
Ed Stine and Damita Hiemstra
Metcalf Archaeological Consultants, Inc.
Bismarck, North Dakota

May 2005

Abstract

Plains All American Pipeline, L.P. intends to install an oil pipeline from the North Dakota/Montana border, in McKenzie County, to a point approximately four miles northeast of the community of Trenton in Williams County, North Dakota. They requested that Metcalf Archaeological Consultants, Inc. conduct a Class III cultural resource inventory of the proposed pipeline corridor. The inventoried corridor is in two segments both 50' wide with lengths of approximately 2.5 miles and 10.5 miles, for a total of approximately 79 acres.

The inventory was conducted by Ed Stine and Damita Hiemstra on May 4 and May 10 through May 12, 2005. A large stone circle site, previously recorded as two sites (32WI204 and 32WI206, now combined as 32WI204) was revisited as was historic site 32WI86. The revisit to 32WI86 revealed a third historic feature, a possible grave, and a prehistoric feature, a stone circle. A prehistoric stone circle site (32WI944) was newly documented. All three sites were located on uplands in the northern 2.5 mile segment. The proposed corridor was re-routed so as to avoid all three sites. The southern segment passed near, and in one case will be bored under a portion of the Fort Buford site limits (32WI130). No evidence of Fort Buford or artifacts related to that period were observed. Under an agreement with the Bureau of Reclamation, a series of canals, 32MZ1174, the Lower Yellowstone irrigation system, will be bored under as well.

The sites encountered, 32WI944, 32WI86, 32WI204, 32MZ1174 and 32WI130 were all avoided by the proposed pipeline. No other cultural resources were encountered and a finding of *No Historic Properties Affected* is therefore recommended for this undertaking as surveyed, mapped and described herein.

Introduction

Plains All American Pipeline, L.P. (Plains Pipeline) intends to install an oil pipeline from the North Dakota/Montana border, in McKenzie County, to a station approximately four miles northeast of the community of Trenton in Williams County, North Dakota. They requested that Metcalf Archaeological Consultants, Inc. (MAC) conduct a Class III cultural resource inventory of the proposed pipeline corridor. The inventoried corridor is in two segments both 50' wide with lengths of approximately 2.5 miles and 10.5 miles, for a total of 13 miles or approximately 79 acres. A stretch between the two segments will use existing line. The proposed line parallels an existing pipeline, but deviates from that line where it crosses the boundary of Fort Buford, rifle range (32WI130) and also through all of the 2.5 mile northern segment. Surveyors for the pipeline were on hand to stake all re-routes around cultural resources, or in the case of 32WI130, to stake for boring under the resource. All irrigation canals will be bored under.

Archaeologists Ed Stine and Damita Hiemstra from MAC conducted the inventory in early May, 2005. Two previously recorded stone circle sites (32WI204 and 32WI206) were revisited and combined into one larger site retaining only site number 32WI204. Historic site 32WI86, also revisited, has been updated to include another historic feature, possibly a grave and a prehistoric stone circle. A prehistoric stone circle site (32WI944) was also documented during the inventory. Re-routes for all three sites were staked and will be used by Plains Pipeline.

Project Location

The proposed undertaking consists of two segments of pipeline corridor between the North Dakota/Montana border, in McKenzie County, and at a point approximately four miles northeast of the community of Trenton in Williams County. The segments are located in the following legal locations in Williams and McKenzie counties and are depicted on USGS quadrangle maps in Appendix C.

McKenzie County:
T. 152 N., R 104 W., sections 17, 20, 29, and 30.

Williams County:
T. 152 N., R. 104 W., sections 1, 9, 10, 11, 12, 16, and 17,
T. 152 N., R. 103 W., sections 5 and 6,
T. 153 N., R. 102 W., sections 3 and 10,
T. 153 N., R. 103 W., sections 25, 35, and 36, and
T 154 N., R. 102 W., Section 34.

Project Setting

The project area is located within the Yellowstone River Study Unit (Unit #13) and the Garrison Study Unit (Unit #6) as defined in the *North Dakota Comprehensive Plan for Historic Preservation: Archeological Component* (SHSND 1990: 6.1-6.39 and 13.1-13.33). The majority of the corridor passes over Missouri River terraces and flood plain. The extreme southwest end,

approximately 0.75 mile, and the northeast end, approximately 2.2 miles, of the corridor passes over uplands/breaks land. The majority of the inventory was over a flat nearly featureless landscape. The Missouri River, crossed by the corridor, lies immediately adjacent and up to two miles distant from the corridor. Eightmile Coulee is the only other named drainage crossed by the proposed pipeline although several ephemeral drainage and several canals are also crossed.

Soils in the project area are primarily dark brown silt, silt loam, and sandy loam deposited by the Missouri River. In the uplands brown silt and clay loam predominate. Very few rocks are present on the surface of the terrace land forms but unless cleared for agriculture, lag boulders are common over the uplands.

All but approximately one mile of the corridor has been or currently is plowed and the bulk of the project area no longer has native vegetation. Where present native vegetation consists of grass, prickly pear cactus and various forbs, with buck brush, buffalo berry and deciduous trees in the drainage and along the Missouri River. Old meander scars of the Missouri River also host rushes, reeds and willows. At the time of the survey, the majority of the land had emerging grain, sugar beet, and pea crops with ground surface visibility of nearly 90%. The areas with native prairie had ground surface visibility of 10 to 50%, was generally closely grazed, and had visibility aided by rodent back dirt piles, cattle trails and two tracks.

Area fauna includes white tail and mule deer, antelope, cotton tail and jack rabbit, and such predators as red fox and coyote. The area also hosts various upland game birds and waterfowl. The nearby Missouri River supports fish, turtles, and fresh water mussels. Bison and to a lesser degree elk were abundant in the past and would have regularly been utilized by native populations.

Research Goals

Following the mandated policies implementing the National Historic Preservation Act (NHPA [Public Law 89-665]), as amended, this project was inventoried to locate any cultural resources within the potential area of affect. This would allow Plains Pipeline to plan construction as to avoid any cultural resources within the project area.

Files Search

On March 31, 2005 Pat Jessen conducted a search of the State Historical Society of North Dakota's site and manuscript files. The search revealed two clusters of sites. Fort Buford (32WI25) and several related sites, including a dump and a rifle range are situated near the southwest end of the corridor. This area also contains the Buford townsite, Fort Buford post office, and the Lower Yellowstone irrigation system (32MZ1174). The second cluster consists of stone feature sites on the uplands at the northeast end of the corridor. The search also revealed that there have been 34 investigations within one mile of the project corridor with 14 of these related to Fort Buford and the immediate area around the fort. The complete results of the files search can be found in Appendix B.

Field Methods

The pipeline corridor was inventoried on May 4 and May 10-12, 2005 by Ed Stine, serving as Principal Investigator, and Damita Hiemstra. The inventory was accomplished utilizing zig-zag pedestrian transects along the corridor length. When an artifact or feature was encountered the location was marked with a pin flag and the surrounding area was closely examined to determine if any other artifacts or features were present and to determine the nature of the find. If there were more than five artifacts or if a feature was encountered the location was designated as a site. The area was plotted on a USGS map, a site sketch map was produced and the area was photographed. Mapping included the use of a Garmin GPS unit. When a site was encountered a re-route for site avoidance was also inventoried. Surveyors for the pipeline were on hand to ensure that a usable re-route could be staked. Field notes were maintained and general overview photographs were taken. Site forms and site update forms were filled out. The various forms, notes, maps, and photographs are on file at the MAC Bismarck office.

Results

In addition to surveying in the Fort Buford area, a pair of previously recorded stone circle sites and a historic site were revisited and updated, and a previously undocumented stone circle site was recorded.

32MZ1174

Under an agreement with the Bureau of Reclamation, all irrigation canals will be bored under and thus will not be impacted by the current project.

32WI25

The pipeline was originally planned to parallel an existing pipeline however the existing line passes through Fort Buford (32WI25) and that route was abandoned. On May 4, 2005 the Fort Buford area was examined and ultimately the most feasible method of site avoidance was to bore under the western edge of the site area, along with an irrigation canal, and proceed with the line along the Highway 58 right-of-way (Appendix C). Although the surface over the boring route was walked no artifacts or features were observed.

32WI204

A pair of stone circle sites were first revisited on May 4, 2005 while conducting a Class III inventory of the 50' wide proposed pipeline corridor. Although the sites, (32WI204 and 32WI206) were originally recorded as single circle sites, they are in fact part of one larger site. At this time, it is recommended that site 32WI206 be dropped and site 32WI204 be retained with both sites combined under the one number. Areas outside of the corridor were examined with the possibility of a re-route in mind and this effort should not be viewed as a definitive inventory of the site. The

individual stone rings were shot in with a GPS unit but feature numbers were not assigned and only very clear arcs or circles were recorded. A detailed investigation, including mapping of individual features, may well result in additional circles or arcs being added to the site boundaries as currently plotted. It is also possible that additional investigations, particularly to the northwest, would result in further expansion of the site.

The site is situated on a large hill, part of the uplands overlooking the Missouri River to the east. There are at least 22 stone features (two arcs and 20 circles) within the site area. The existing circles range in diameter from four to six meters and are composed of 50 to 100, mostly granite, well sodded rocks. The majority of the rings are along the edges of the land form although they also occupy individual rises within the land form.

Down slope on the southwest edge there are several modern stone markers presumably commemorating the years of various Trenton High School graduating classes. There is a lack of circles in this area. Likely several circles were dismantled for use in making of these modern markers. Other disturbances to the site include the installation of a fiber optics line through the central part of the site and the installation of a gas line and overhead utility line along the eastern edge of the site. Given the site's overall size, it retains good integrity despite these disturbances. The proposed pipeline was rerouted between the existing gas line and the overhead utility line in this area and will then follow an old crowned and ditched road bed to the northwest until it is well out of the site (Figure 1). The area between the existing gas line and the overhead utility lines, while within the topographical boundary of the site, is an area with no circles and no integrity remaining. Using this reroute will not impact the site.

32WI86

On May 10, 2005 several reroute alternatives for 32WI204 were examined. At this time site 32WI86 was revisited. This multi-component site consists of one stone circle, one historic depression, one possible historic grave, and one circular feature that may be a filled-in well or privy.

The stone circle (Feature 4) lies north of and above the historic component on a small rise. The circle measures approximately four meters in diameter and is composed of 19 individual rocks and one small cairn of seven rocks on its southeastern edge. The historic depression (Feature 1) has a rock-lined wall construction with a shallow (one foot deep), ten square foot area located on the western side of the depression. A "cellar" entrance is located on the eastern side of the depression. The entire feature, including depression, shallow depression, and cellar entrance is surrounded by a two foot wide earthen berm. The possible grave (Feature 3) is located approximately 25 feet to the south of the depression. It consists of a rectangular stone outline approximately 2.5 meters long and 1.25 meters wide with a line of rocks through the center. The possible well/privy (Feature 2) is located 30 feet south of the southeastern corner of the depression and 25 feet east of the possible grave. It is a disturbed area approximately one meter in diameter.

Integrity of the site is good although rock clearing north of the stone circle may have destroyed or masked other circles. The reroute for the proposed pipeline will parallel a fiber optics line approximately 25' to the southeast of the line and 50 meters to the north and west of site 32WI86 (Figure 1).

32WI944

This site was encountered while inventorying reroute options that would not require multiple crossing of existing energy and telecommunication lines. This site is composed of two large, well sodded-in stone circles. The first stone circle (Feature 1) measures approximately eight meters in diameter and is composed of 73 rocks. The second stone circle (Feature 2) measures approximately seven meters in diameter and is composed of 69 rocks. No artifacts were observed at the site.

Overall the integrity of 32WI944 as an archaeological site is good. The features are undisturbed. The stone circles are intact and seemingly undisturbed. The area immediately to the north is a plowed field. The plowing and field clearing may have destroyed additional circles.

The approved pipeline route lies approximately 15 meters to the west and north of the site. The pipeline will not impact the site as it lies below the land form that holds the site, and follows a small drainage to the north of the site (Figure 2).

Management Recommendations

Reroutes were staked in the field, with surveyors for Plains Pipeline, for site 32WI204, 32WI86, 32MZ1174 and 32WI944. Plains Pipeline agreed to bore under the western portion of 32WI25, Fort Buford and 32MZ1174 the Lower Yellowstone irrigation canal system. As planned the boring will start approximately 200' south of the 32WI25 site limits and proceed 1,700' to the north emerging in the Highway 58 right-of-way. The line will then continue along the right-of-way to a point approximately 500' north of the site limits and then proceed to the east. As surveyed this route will avoid any impact to Fort Buford. If future pipeline failure were to occur it is recommended that the portion of the line which had been bored under the site be abandoned and a new loop be bored under the site to replace the failed portion (i.e. no surface digging of the line will occur). Provided that sites 32WI25, 32WI86, 32WI204, 32MZ1174 and 32WI944 are avoided as described, a finding of *No Historic Properties Affected* is recommended for this undertaking as surveyed, mapped, and discussed herein.

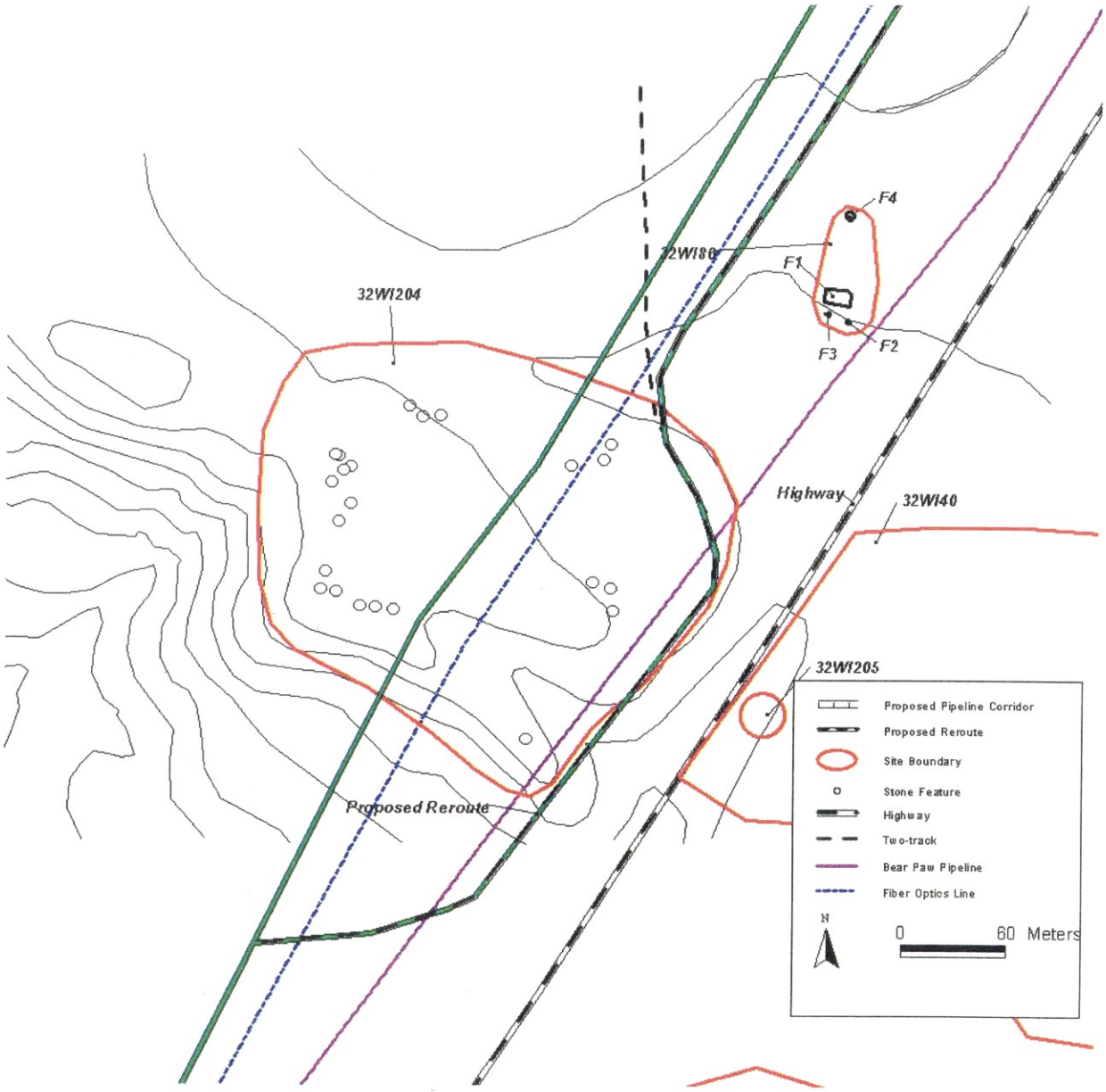


Figure 1: Sketch map depicting pipeline avoidance routes around 32WI204 and 32WI86.

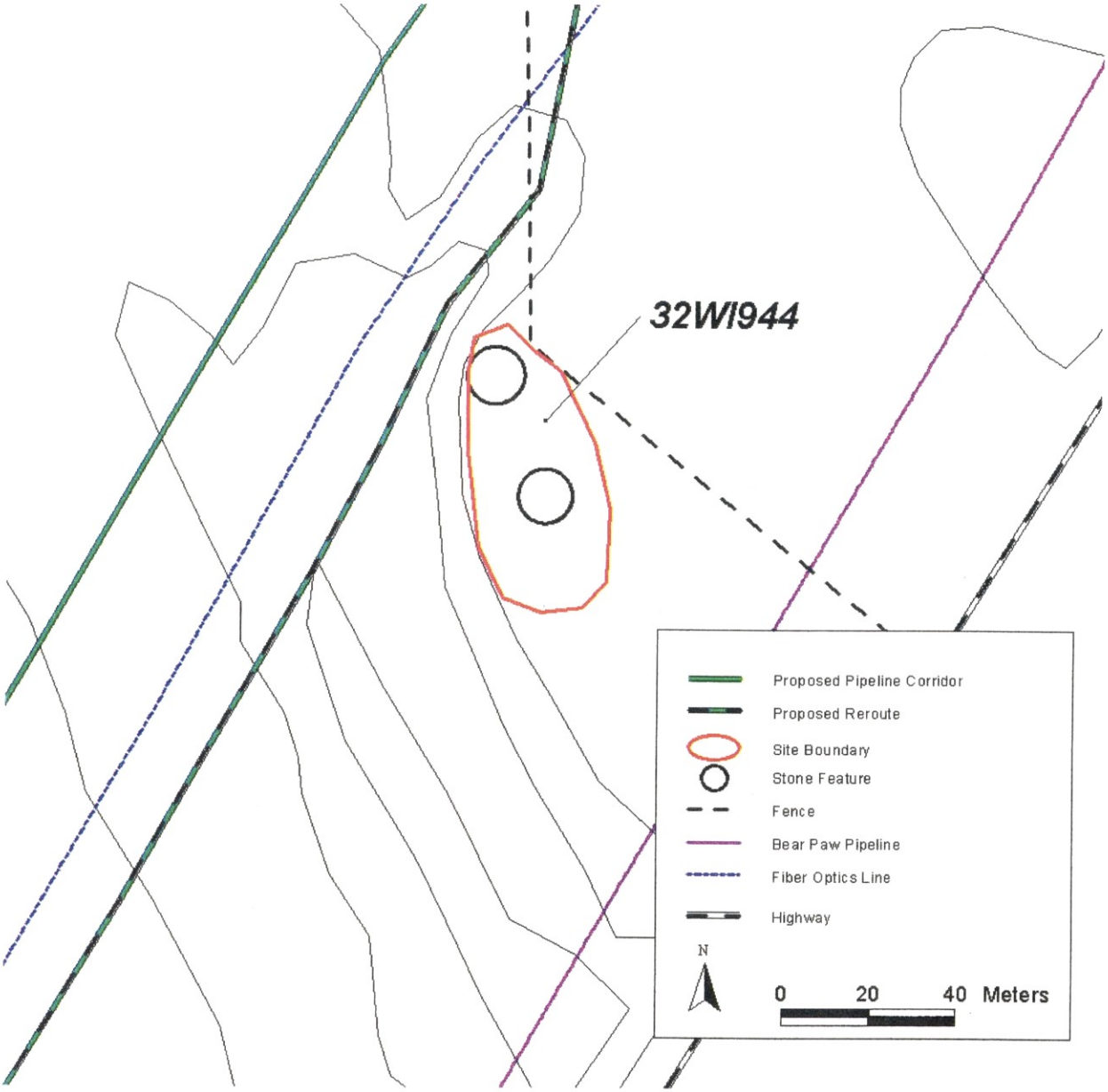


Figure 2: Sketch map depicting avoidance route around 32WI944.

References Cited

State Historical Society of North Dakota (SHSND)
1990 *North Dakota Comprehensive Plan for Historic Preservation: Archeological Component* Archeology and Historic Preservation Division, State Historical Society of North Dakota, Bismarck, North Dakota

Appendix A:
Project Photo Section

Figure 3: View to the northeast over corridor route in Missouri River breaks and uplands (Img. 5-1).

Figure 4: View to the southwest over corridor through Missouri River breaks and terrace lands (Img. 5-2).

Figure 5: View to the southwest over corridor crossing typical flood plain/terrace land (Img. 8-6).

Figure 6: View to the north over corridor route avoiding Fort Buford site area by employing Highway 58 right-of-way (Img. 8-7).

Appendix B:
Files Search Results

Township/Range-Section	SITS #	Site Type & Description	Recorder, Date	MS #
Williams County, North Dakota				
152/104-2	no sites/no surveys			
152/104-9	32WIx7	historic-Buford townsite	Tweton, 1978	
	32WIx8	historic-Ft. Buford Post Office	Tweton, 1978	
	32WIx500	architectural-bridge (replaced 1991)	McCroskey, 1991 Kulevsky, 2003	
	32WIx508	archeological-projectile point	Haakenson, 1981	
	32WI34	archeological-cultural material scatter	Schneider et al., 1980	
	32WI347	historic-cultural material scatter, depression, foundation	Borchert, 1995	
152/104-10	32WIx7	historic-Buford townsite	Tweton, 1978	
	32WIx8	historic-Ft. Buford Post Office	Tweton, 1978	
152/104-11	no sites/no surveys			
152/104-12	no sites/no surveys			
152/104-14	no sites/no surveys			
152/104-15	32WIx9	archeological-campsite	Hecker, 1938	80 3936 4795 6080 7835 8097 8252 8638 8694
	32WI25	historic/architectural-cultural material scatter, depression, dump, foundation, trail (Ft. Buford)	Bailey, 1974 Nowak, 1989	
	32WI156	historic/architectural-dam and pumphouse	Floodman, 1986 Pouley, 2002	
	32WI903	archeological-grave	Koenig, 2002	
	32WI904	architectural-residence	Pouley, 2002	

Township/Range-Section	SITS #	Site Type & Description	Recorder, Date	MS #
152/104-16	32WIx11	historic/archeological-cultural material scatter	Schneider et al., 1980	80 109 1760 2489 4044 4670 4795 5234 5703 5934 5948 6080 6433 7835 8176 8217 8638 8694
	32WIx12	historic/archeological-cultural material scatter	Schneider et al., 1980	
	32WIx13	historic/archeological-cultural material scatter	Benson, 1980	
	32WIx14	historic-Ft. Williams	Tweton, 1978	
	32WIx15	historic-Ft. Mortimer	Tweton, 1978	
	32WI25	historic-Ft. Buford		
	32WI30	historic/archeological-Ft. Buford (rifle range)	Schneider et al., 1980	
	32WI31	historic/archeological-dump	Schneider et al., 1980	
	32WI32	historic/archeological-dump	Schneider et al., 1980	
	32WI33	historic/archeological-Feiglry site	Schneider et al., 1980	
	32WI34	historic/archeological-cultural material scatter	Schneider et al., 1980	
152/104-17	32MZ1174	architectural-Lower Yellowstone irrigation project	Good, 1992 McCormick, 1996 Kordecki, 1997	1760 5969
152/104-19	no sites			1760
152/104-20	32MZ1174	architectural-Lower Yellowstone irrigation project	Good, 1992 McCormick, 1996 Kordecki, 1997	1760 5969
152/104-21	no sites/no surveys			
152/104-29	32MZ1174	architectural-Lower Yellowstone irrigation project	Good, 1992 McCormick, 1996 Kordecki, 1997	109 1760 5969
	32MZx122	historic-Ferry Coulee landing	no name, no date	
	32MZx390	historic-Lewis & Clark camp, April 26, 1805	Mattison, 1951	
152/104-30	32MZ1174	architectural-Lower Yellowstone irrigation project	Good, 1992 McCormick, 1996 Kordecki, 1997	5904

Township/Range-Section	SITS #	Site Type & Description	Recorder, Date	MS #
153/102-3	32WI310	archeological-rock cairn, stone circle, cultural material scatter	Christensen, 1989	3251 4232 4707
153/102-10	32WI40	archeological-rock cairn, stone circle	Pearson, 1981 Schweigert, 1987	1686 3147 3251 4232 4294 4423 4630
	32WI86	historic-depression, foundation	Borchert, 1983	
	32WI204	archeological-cultural material scatter, stone circle	Blikre, 1987	
153/102-10 cont.	32WI205	archeological-cultural material scatter historic-depression	Blikre, 1987	
	32WI206	archeological-stone circle	Blikre, 1987	
	32WI310	archeological-stone circle, rock cairn, cultural material scatter	Christensen, 1989	
154/104-1	no sites			5743, 6578
154/102-34	32WIx106	archeological-campsite	Hecker, 1938	3251 8463

Manuscript List	
MS #	Reference
80	Adamczyk, T. 1975 Archaeological Inventory Missouri River Reach Between Fort Benton, Montan, and Sioux City, Iowa
109	Mattison, R. 1951 Report on Historical Aspects of the Garrison Reservoir Area, Missouri River
1686	Pearson, J. and A. Simon 1981 A Class III Intensive Inventory of the Proposed Route of MDT Trenton Plant Line in Williams County, North Dakota
1760	Schneider, F. and W. Roberson 1981 Cultural Resource Inventory of the Mondak Bridge Project, Williams County and McKenzie County, North Dakota
2489	MacDonald, L., D. Gallacher and T. Weber Greiser 1982 Testing and Evaluation of Cultural Resource Sites 32WI31, 32WI32 and 32WI34, Williams County, North Dakota
3147	Simon, A. And K. Keim 1983 Class III Intensive Inventory Proposed Trenton Gas Pipeline and Substation in Portions of Sections 9, 10, 16, 17, T153N R102W–Williams County, North Dakota, and Addendum to UW#628
3251	Kuehn, D. And J. Borchert 1984 Archaeological Investigations Along the Portal Beaver Lodge to Alexander Pipeline Williams and McKenzie Counties, north Dakota
3936	Floodman, M. and M. J. Tate 1986 North Dakota Game and Fish Department Buford Fishing and Boating Access Facility, Williams County, North Dakota
4044	Peterson, J. 1981 Survey for Cable Plant on Fort Buford, Williams County, North Dakota
4232	Blikre, L. and D. Kuehn 1987 A Cultural Resource Inventory of Select Areas Along Highway 1804, Williams County, North Dakota
4294	Noisat, B., J. Campbell, G. Moore and K. Schweigert 1986 A Reconnaissance Survey and Preliminary Assessment of the Cultural Resources of Lake Sakakawea in Williams and McKenzie Counties, North Dakota Vols 1 and 2
4423	Persinger, R. and K. Schweigert 1987 Archaeological Testing of Site 32WI40 and Historical Evaluation of Sites 32WI203 and 32WI205 Near Trenton, Williams County, North Dakota
4630	Persinger, R. 1988 Trenton Gravel Pit Archeological Survey, Williams County, North Dakota

Manuscript List	
MS #	Reference
4670	Warner, R. 1986 Fort Buford, Williams County, North Dakota: Sentinel on the Northern Plains, 1866-1895
4707	Christensen, R. 1989 Archaeological Survey of North Dakota State Highway Department Stockpile Area in SE1/4, Section 3, T153N, R102W, Williams County, North Dakota, and Archaeological Significance Testing of Site 32WI310
4795	Schweigert, K. 1989 Fort Buford/Fort Seward Survey Pre-Field Report, Williams and Stutsman Counties, North Dakota
5234	Swenson, F. 1990 Letter Report on the 1988 Test Excavations at Fort Buford (32WI25), Williams County, North Dakota
5703	Nowak, T. 1990 An Archeological Assessment of Fort Buford, Williams County and Fort Seward, Stutsman County, Historic Sites, North Dakota
5743	Kuehn, D. and B. Rippeteau 1981 Monitoring of Buford East/West Highway Project Williams County Highway Department Project Number CRS-5344(51)
5904	Kinney, J., T. Larson and D. Penny 1992 Results of the 1991-1992 Class III Cultural Resource Inventory of Selected Bureau of Land Management Tracts, Divide, McHenry, Williams, Pierce, McKenzie, Ward, Benson, Grant, Sheridan, and McLean Counties, North Dakota Vol. I & II
5934	Kuehn, D., B. Howard, T. Schlinke, F. Largent, B. Lovett, L. Schaumann, B. Schaffer and B. Baker 1992 Archaeological Excavations at Fort Buford, 32WI25, Williams County, North Dakota: Summary of the 1991 Field Season
5948	Kuehn, D., T. Schlinke, B. Lovett, B. Howard, D. Kloetzer, L. Schaumann, F. Largent, B. Baker, B. Shaffer and S. Nasta 1993 Archaeological Excavations at Fort Buford, 32WI25, Williams County, North Dakota: Summary of the 1991 and 1992 Field Seasons
5969	Good, K. 1992 Lower Yellowstone Irrigation Project, McKenzie County, North Dakota (Historic Properties Recordation Report)
6080	Mitchell, B. 1993 Ft. Buford Water and Sewer Line Monitoring Project, Williams County, North Dakota
6433	McKibbin, A., K. Karsmizki and D. McKee 1995 Fort Buford: Report of 1994 Archaeological Investigations, Williams County, North Dakota
6578	Borchert, J. 1995 Hwy 1804 from 4400' E of the Marley Crossing to the Montana Border, Williams County, Class III Cultural Resource Inventory

Manuscript List	
MS #	Reference
7835	Cultural Research & Management 1983 Fort Buford Working File
8097	Klinner, D. 2002 Fort Buford State Historic Site - Results of a Survey for the Proposed Confluence Area Interpretive Center, Williams County, North Dakota
8176	Johnson, C. 2002 Historic Structures Report for the Fort Buford's Infantry Barracks 1867-1880, Williams County, North Dakota
8217	Wermers, G. and D. Klinner 2002 Fort Buford State Historic Site: Excavations to Identify the Corners of an 1870's Barracks & Associated Kitchen/Mess Hall, Williams County, North Dakota
8252	Picha, P. 2002 Archeological Monitoring of the
8463	Hall, D., S. Knudsen and J. Lockman 2002 Cultural Resource Investigation Williston to Wolf Point Transmission Line Roosevelt County, Montana and Williams County, North Dakota
8638	Bluemle, W. 2003 Fort Buford and Fort Union Shared Use Bike Paths: An Intensive Cultural Resource Inventory in Williams County, North Dakota
8694	Bluemle, W. 2003 Monitoring on the Multi-Purpose Path at Fort Buford and Fort Union, Williams County, North Dakota

Appendix C:
Project Topographic Coverage

Proposed Pipeline Corridor

32WI944

32WI186

Proposed Reroute

32WI204

32WI140

32WI40

32WIx508

32WI34

32WI33

32WI31

32WI30

32WI32

32WI25

Legend

- Proposed Pipeline Corridor
- Proposed Reroute
- Bore Area
- Site
- Isolate
- Canal (see 32MZ1174)

N

0 0.2 0.4 0.6 0.8 Miles

0 0.2 0.4 0.6 0.8 Kilometers

4

PLAINS PIPELINE LIMITED PARTNERSHIP

TEN-YEAR PLAN

Introduction

Plains Pipeline Limited Partnership [hereafter known as "Plains"] controls various pipeline transmission facilities in the State of North Dakota subject to the provisions of N.D.C.C. § 49-22-04. The ten-year plan of Plains Pipeline Limited Partnership is as follows:

(NOTE: The following assets were formerly owned by the following entities:
Koch Gathering Systems, Inc. and/or Koch Pipelines, Inc.(previous to December 1, 1998),
EOTT Energy Pipeline Limited Partnership (December 1, 1998 – October 1, 2003), and
Link Energy Pipeline Limited Partnership (October 1, 2003 -- April 1, 2004).
Plains acquired the Link Energy Pipeline Limited Partnership assets on April 1, 2004.

• Dodge System Transmission Facilities (Pipeline)

1. Fryburg to Dodge Station
    a. Product type: crude oil
    b. Length of facility: 68 miles
    c. Pipe size: 29.7 miles of 4" pipe (INACTIVE) with a 6" loop (ACTIVE) from Fryburg Station to Dickinson Station; 39 miles of 6" pipeline from Dickinson to Dodge Station; 25 miles of 6" pipe from 3 miles west of Dickinson Station to Highway 10 pipeline junction; field gathering lines of 4" and 6" and trucks bring crude oil from production facilities into this system.
    d. Maximum design operating pressure: 1440 PSI
    e. Maximum design flow rate: 13,000 BPD
    f. Pump station specifications: At Fryburg, Plains has the capability of heating the crude oil and pumping at a rate of 270 BPH. Plains has two positive displacement pumps at Fryburg. There is also an injection pump at Dickinson where trucked in crude oil is injected into the pipeline. Oil is also trucked into Fryburg Station.
    g. Minimum cover over pipe: 48"
    h. Internal inspection tool was run 03-97 and 05-04.
    i. As a result of internal inspection, 800' of changeouts were done in 1997 and several additonal repairs are scheduled as a result of the recent internal inspection.

2. Rocky Ridge Station to Belfield (Inactive)
    a. Product type: crude oil (no longer in use)
    b. Length of facility: 27 miles
    c. Pipe size: 4"
    d. Maximum design operating pressure: 1440 PSI
    e. Maximum design flow rate: Inactive
    f. Pump station specifications: All pumps have been removed.
    g. Minimum cover over pipe: 48"

This pipeline is idle. Plains maintains the property, however, to preserve its salvage value or to return it to service should that ever be desired. None of the other pipeline transmission facilities are scheduled for retirement within the next ten years.

3. T-R Field gathering to Little Missouri Pipeline
    a. Product type: crude oil
    b. Length of facility: 20 miles
    c. Pipe size: 12 miles of 4" and 6" pipe
    d. Maximum design operating pressure: 1200 PSI
    e. Maximum design flow rate: 4400 BPD
    f. Pump station specifications: Pumping station is located in the field at T-R Station injecting crude oil at 100-800 PSI at 78 BPH.
    g. Minimum cover over pipe: 48"
    h. Internal inspection tool was run 12-96. (No changeouts were required)

4. Diamond Shamrock Gathering to Fryburg Station (Now known as Summit Gathering)
    a. Product type: crude oil
    b. Length of facility: 16 miles
    c. Pipe size: 4" pipeline
    d. Maximum design operating pressure: 1200 PSI
    e. Maximum design flow rate: 9000 BPD
    f. Field pump specifications: Pumps located in the Knutson-Madison Field inject crude oil at a maximum of 900 PSI.
    g. Minimum cover over pipe: 48"
    h. Internal inspection tool was run 05-97. (No changeouts were required)

5. Belfield Loop (INACTIVE)
    a. Product type: crude oil
    b. Length of facility: 8 miles
    c. Pipe size: 4" pipeline
    d. Maximum design operating pressure: 1440 PSI
    e. Maximum design flow rate: Inactive
    f. Field pumps specifications: (All pumps have been removed from locations)
    g. Minimum cover over pipe: 48"
    * This system is currently idle.

6. Russian Creek Gathering
    a. Product type: crude oil
    b. Length of facility: 3.5 miles
    c. Pipe size: 4" pipeline
    d. Maximum design operating pressure: 1440 PSI
    e. Maximum design flow rate: 7000 BPD
    f. Two field pumps move this product into the Fryburg-Dodge system.
    g. Minimum cover over pipe: 48"

7. Lodgepole Gathering

a. Product type: crude oil
b. Length of facility: 13 miles
c. Pipe size: two-4" pipelines
d. Maximum design operating pressure: 1440 PSI
e. Maximum design flow rate: 7000 BPD per each line.
f. Field pumps move this product into the Fryburg-Dodge system.
g. Minimum cover over pipe: 48"

8. In-Service "Dates"
   a. The 4" crude oil pipeline from Fryburg Station to Dickinson and the 6" crude oil pipeline from Dickinson to Dodge were placed in service in December 1969. Nine miles of 6" loop, extending west from Dickinson, was built in 1970. The balance of the 6" loop was built in 1978-79. The newest 6" line built in 1995 was built to replace the 4" line that was taken out of service. A five-mile segment of 4" pipeline from Highway 10 to Fryburg was returned to service in May 1999. This line was hydro-tested in 2001 and subsequently taken out of service.
   b. The T-R Field to Fryburg Station line was built in 1978-79.
   c. The Diamond Shamrock gathering line was placed in service in September 1985.
   d. The Belfield Loop line was built in 1983.
   e. The Russian Creek gathering line was placed in service in 1991.
   f. The Dickinson Lodgepole gathering lines were built in 1995-1996.

PROPOSED CONSTRUCTION OF TRANSMISSION FACILITIES DURING THE NEXT FIVE YEARS.

1. None anticipated

PROPOSED CONSTRUCTION OF TRANSMISSION FACILITIES DURING THE NEXT TEN YEARS.

1. None anticipated

• Whitetail and Killdeer Transmission Facilities (Pipeline)

1. Whitetail Gathering System
    a. Product type: crude oil
    b. Length of facility: 17 miles
    c. Pipe size: 4"
    d. Maximum design operating pressure: 1440 PSI
    e. Maximum design flow rate: 6720 BPD
    f. Pump station specifications: field gathering injection pumps move product to Whitetail Station.
    g. Minimum cover over pipe: 48"
    h. The Whitetail gathering line was placed in service in 1982.

2. Killdeer Gathering System.
    a. Product type: crude oil
    b. Length of facility: 22 miles
    c. Pipe size: 4" and 6"
    d. Maximum design operating pressure: 1440 PSI
    e. Maximum design flow rate: 7200 BPD
    f. Pump station specifications: field gathering injection pumps move product to Killdeer Station.
    g. The Killdeer gathering line was placed in service in 1987.
    h. Minimum cover over pipe: 48"

PROPOSED CONSTRUCTION OF TRANSMISSION FACILITIES DURING THE NEXT FIVE YEARS.

1. None anticipated

PROPOSED CONSTRUCTION OF TRANSMISSION FACILITIES DURING THE NEXT TEN YEARS.

1. None anticipated

• Baker/Rhame Transmission Facilities (Pipeline)

1. Harding Station (South Dakota) to Rhame (Looped)
    a. Product type: crude oil
    b. Length of facility: approx. 30 miles (with 15 miles in South Dakota)
    c. Pipe Size: The pipeline consists of parallel pipelines running the entire distance. The line size in North Dakota is 2", 3" and 4". The line size in South Dakota is 4" and 6".
    d. Maximum design operating pressure: 1400 PSI
    e. Maximum design flow rate: 4800 BPD at 1100 PSI
    f. Pump station specifications: field pumps with low design flow rates.
    g. Minimum cover over pipe: 48"

2. Rhame Station to Baker (Looped)
    a. Product type: crude oil
    b. Length of facility: 47.5 miles
    c. Pipe Size: The Rhame Station to Baker facility consists of parallel pipelines running the entire distance with an intermediate Marmarth Station. The line size in North Dakota is 6", 4", and 8". The line size in Montana is 4", 4", and 8".
    d. Maximum design operating pressure: 1400 PSI
    e. Maximum design flow rate: 30,000 BPD at 1200 PSI
    f. Pump station specifications: (Rhame and Marmarth combined) one 200 HP, 2651 Gaso pump, and three 200 HP 2652 Gaso pumps, positive displacement, or piston type, with output pressure of 950 PSI and with throughput capacity of 30,000 BPD.
    g. Minimum cover over pipe: 48"

3. In-Service "Dates"
    a. The original Rhame Station to Baker line was put in service in 1971 with a 4" loop constructed in 1973, a 6" loop in 1984 and an 8" loop line in 1995. The 8" extension in to North Dakota was built in 1997. Other small gathering lines were constructed in 1995-1997 and 2003-2004.
    b. The original gathering into Rhame Station was built in 1971. The Harding Station to Rhame Station lines were built and put into service in 1985.

PROPOSED CONSTRUCTION OF TRANSMISSION FACILITIES DURING THE NEXT FIVE YEARS.

1. Three short lateral gathering lines are proposed for construction in 2005.
2. A 30,000 bbl crude oil tank will be constructed at Marmarth Station to improve pipeline flows.
3. Throughput of the main lines is expected to be increased up to 55000 bpd with the planned increase of additional pumping and horsepower capacity in 2004 and 2005.

PROPOSED CONSTRUCTION OF TRANSMISSION FACILITIES DURING THE NEXT TEN YEARS.

1. None anticipated

• Trenton System Transmission Facilities (Pipeline)

1. Richland County, MT to Trenton Station near Williston, ND
    a. Product type: crude oil
    b. Length of facility: 90 miles (65 miles are in Montana)
    c. Pipe Size: 4" and 6"
    d. Maximum design operating pressure: 1440 psi
    e. Maximum design flow rate: 12,000 bpd
    f. Pump station specifications: Oil is gathered from production facilities with individual pumps at production sites in North Dakota and Montana. A truck unloading facility, Richland Station, injects crude into the line in Richland County, MT. Oil is gathered to tankage at Trenton Station near Williston, ND. Trucks can also unload at Trenton Station.
    g. Minimum cover over pipe: 48"
    h. The Trenton gathering line was placed in service in 1968.
    i. Internal inspection tool was run in 1997 and 2004.
    j. 5000' of changeouts were made in 1997-1998. Additional repairs will be made as a result of the recent internal line inspection tool run.

2. East Fork Gathering Pipeline (INACTIVE)
    a. Product type: crude oil
    b. Length of facility: 30 miles
    c. Pipe size: 6" and 4"
    d. Maximum design operating pressure: 1440 psi
    e. Maximum design flow rate: 8400 BPD
    f. Pump specifications: All pumps have been removed from production facilities.
    g. Minimum pipe cover: 48"
    h. Internal inspection tool run in 1997.
    i. No changeouts were required.

This pipeline is currently idle. Plains maintains the property, however, to preserve its salvage value or return it to service should that be desired.

PROPOSED CONSTRUCTION OF TRANSMISSION FACILITIES IN THE NEXT FIVE YEARS:

1. The design flow rate of the six inch mainline will be increased to 25,000 bpd in order to handle increased production in Montana. This will be accomplished by adding additional pumping and horsepower capacity to pipeline stations upstream in Montana.

PROPOSED CONSTRUCTION OF TRANSMISSION FACILITIES IN THE NEXT TEN YEARS:

1. None anticipated

Company Overview

Plains Pipeline Limited Partnership provides crude petroleum transportation services from producing leases to various pipeline or refinery destinations. Ultimately, the crude oil is converted to marketable condition as fuels and lube products. Plains must react to the oil and gas industry's needs for its service on a much shorter time frame than five or ten years. The distances involved are relatively short and the need for the service is generally only foreseeable by a few short months. Long-range planning is valuable only to the extent that it permits Plains to react rapidly and efficiently to industry requirements for pipeline transportation services.

Regional Coordination

Oil and gas exploration activity remains uncertain due to wildly unpredictable crude oil prices. Since petroleum exploration is a highly competitive business, regional planning for production and transportation of oil and gas production is very limited.

It is believed that if the companies engaged in the exploration and production of oil and gas coordinated their plans on a regional basis in order to meet regional fuel requirements as they foresaw them, they would expose themselves to the severe penalties associated with violation of the nation's antitrust laws.

Environmental Information

Plains has developed cooperative working relationships with the U.S. Forest Service, the Bureau of Land Management, the North Dakota Industrial Commission, the North Dakota Public Service Commission, the State Health Department, the State Water Commission, and those counties in which it operates.

Plains selects pipeline corridors and routing to minimize impact as required by the statutes and rules and regulations of the Public Service Commission. Whenever desirable, Plains may employ local environmentalists and archaeologists to assist with planning; local farmers may be employed for restoring cropland to tillable condition following construction. Plains is proud of its safety record in the operation of facilities in North Dakota and is prepared to meet any emergency that should arise in order to minimize the impact of any pipeline failure.

In 1988, a new metering and SCADA supervisory system was installed on the Fryburg to Dodge, Rhame to Baker, and Trenton lines for leak detection purposes. Plains maintains a rigid pipeline integrity program and periodically runs internal line inspection tools to find anomalies and perform required repairs and change outs as needed.

Projected Demand For Services

At the present time, the world market for crude oil is extremely tight. This has led to higher crude oil prices.

Current high prices of crude oil have increased crude oil exploration in North Dakota and surrounding states. As development and production increases, the need for transportation capability also increases. New facilities and pipelines may need to be constructed to meet the growing demands, however, uncertainty and confidentiality of production activities leads to very short range planning by the crude oil gathering and transportation industry.

Additionally, production and development activities are occurring near existing pipeline transportation facilities. Extending pipeline services to these sites can be done to meet the growing transportation demands.

5

CURRICULUM VITAE

Edward E. Stine
501 4th Ave. NW
Mandan, North Dakota 58554
(701) 667-5716
(701) 471-1934

Education:

1981 University of North Dakota
M.F.A. (Ceramics)

1978 B.A. (Visual Arts)

1976 B.A. (Anthropology), Minor in History

High School: Lac du Bonnet Collegiate
Lac du Bonnet, Manitoba, Canada

Professional Experience:

2002-Present Staff Archaeologist

Metcalf Archaeological Consultants, Inc., Bismarck, North Dakota office. Under the direction of Michael D. Metcalf, I serve as Staff Archaeologist and Principal Investigator for a variety of archaeological investigations in North Dakota. I was the Principal Investigator on recent projects such as archaeological inventories of approximately 70 miles for two Fort Berthold Rural Water Pipelines on the Fort Berthold Indian Reservation, 62.5 miles for the Rhoades 3D Seismic survey in the Little Missouri Badlands, Eight Tree Sites, an inventory of locations across North Dakota, and numerous NDDOT sponsored highway related projects. Duties included supervising crew, communicating progress with clients and Federal/State agencies involved, and devising daily work strategies. I am also responsible for technical writing of many North Dakota, South Dakota, and Montana archaeological investigations.

2001-2002 Field Director

IMA Consulting, Inc., St. Paul, Minnesota. I was in charge of the IMAC North Dakota office. I was under the direction of Beth Nodland, and served as Field Director of the Grasslands Pipeline, an archaeological inventory of approximately 95 miles through the Little Missouri Badlands. I assumed responsibility of communications between various clients and Federal agencies. I was also Principal Investigator for NDDOT highway inventories totaling over 100 miles along Highway 36, Highway 31, and Interstate 94. I was also responsible for the technical writing of all North Dakota archaeological projects.

1997-2001 Field Director

CURRICULUM VITAE

IMA Consulting/Hemisphere Field Services, St. Paul, Minnesota. I was under the direction of Dr. Clark Dobbs, served as Field Director and was in charge of the North Dakota office. I was involved with all phases of archaeology with IMAC/HFS. As Field Director in North Dakota, I was responsible for inventory, testing, data recovery, and technical writing for the Alliance Pipeline which stretched across approximately 300 miles of Drift Prairie in North Dakota. I successfully managed crews of up to 20 people for the Alliance Pipeline project. I was also Principal Investigator for other North Dakota archaeological projects including test excavations for the US Army Corps of Engineers at Lake Ashtabula and a canoe based, float survey of the Sheyenne River.

1991-1997 Staff Archaeologist

Metcalf Archaeological Consultants, Inc., Bismarck, North Dakota. I was under the direction of Michael D. Metcalf and was in charge of most archaeological field work for the Bismarck office in North Dakota. I served as Principal Investigator for numerous archaeological projects in North Dakota, South Dakota, and Montana. In addition to managing field crews, I was responsible for the technical writing of the various projects conducted by the office.

1989-1997 Crew Chief

IMA Consulting, Inc., St. Paul, Minnesota. I was under the direction of Dr. Clark Dobbs and served as crew chief for the Great Lakes Gas Transmission Pipeline in Minnesota, Wisconsin, and Michigan. I was responsible for managing field crew during the inventory and test excavations along the pipeline corridor.

1985-1989 Archaeological Technician

I served as Archaeological Technician for the University of North Dakota under the direction of Michael Gregg, for Metcalf Archaeological Consultants, Inc. under the direction of Michael D. Metcalf, and for the Colorado Highways Department under the direction of O. D. Hand. As an Archaeological Technician I worked in North Dakota, Colorado, Wyoming, Utah, and South Dakota on projects ranging from data recovery at; the multi-component Naze site in North Dakota, the Tremont Hotel, an early brick hotel in Denver, Colorado, and several Fremont pit house sites in Utah, as well as numerous inventory projects in the aforementioned states.

CURRICULUM VITAE

Memberships, Affiliations and Related Experience:

In 2002 I presented a pottery workshop (Traditional Hand-building) with Three Affiliated Tribes, New Town, ND.

I was contracted to replicate pottery for Museum exhibits by the Bureau of Reclamation.

I was contracted to replicate pottery for Museum exhibits by Split Rock Studios Museum Outfitters.

I served from 1992-1997 as archaeologist and historic archaeologist on the North Dakota State Review Board for National Register of Historic Places Nominations.

I served as Secretary-Treasurer for the Professional Council of North Dakota Archaeologists from 1991-1997.

I am a current member of North Dakota Archeological Association.

Technical Reports:

Since 1991 I have authored over 150 technical reports on archaeological investigations in North Dakota, South Dakota, and Montana. Most of these reports are on file in the North Dakota State Historical Society's manuscript files (MS# provided). Other State and Federal Preservation Offices have reports on file as well (noted in parentheses). The reports are the result of inventories ranging in size from 10 acre block surveys to linear inventories of up to 300 miles and also include final reports on evaluative testing and data recovery programs for over 50 archaeological sites in North Dakota. A partial listing of technical reports follows. Additional information and a complete listing of contract reports and manuscripts will be provided upon request.

Stine, Ed

2003 Fort Berthold Rural Water System, East Segment Phase I: A Class III Cultural Resource Inventory in McLean County, North Dakota. MS #8441 (BOR, NDSHPO, BIA)

2002 Eight Tree Planting Sites: A Class III Cultural Resource Inventory in Bottineau, Burke, Burleigh, Cass, Grand Forks, Ransom, and Pembina Counties, North Dakota. MS#8391 (NDDOT, NDSHPO)

2002 Class III Cultural Resource Inventory, Highway 36 From Junction 3 to Pingree: Kidder and Stutsman Counties, North Dakota. MS #8350 (NDDOT, NDSHPO)

1996 32EM1086 and 32EM1088: Results of Testing for a Bridge Replacement & Road Realignment, Emmons County, North Dakota. MS #6739 (NDDOT, NDSHPO)

1996 West River's Solen Telephone Exchange: A Class II and III Cultural Resource Inventory in Morton and Sioux Counties, North Dakota. MS #6646 (BIA, NDSHPO)

CURRICULUM VITAE

1994 West River Telecommunications Excavation at 32ME787 Mercer County, North Dakota. MS #6394 (NDSHPO)

1993 Polar Communications Five Year Project A Class II Reconnaissance Survey in Grand Forks, Pembina and Walsh Counties, North Dakota. MS #6169 (NDSHPO)

1993 Lignite to Ramberg Canadian Crude Project Cultural Resource Reconnaissance, Burke and Mountrail Counties, North Dakota. MS #5995 (PSC, NDSHPO)

1993 Swenson Site Testing and Evaluation of 32BI828 Billings County, North Dakota. MS #6001 NDDOT, NDSHPO)

1993 Ramsey County Rural Water Phase II: A Reconnaissance Survey in Benson, Nelson, and Ramsey Counties, North Dakota. MS #5997 (BOR, NDSHPO)

1992 Dakota Central Telecommunications Coop Fiber Optic Cable Route Reconnaissance Survey Stutsman County, North Dakota. MS #5809 (NDSHPO)

1992 Cass County Highway #16 A Class III Cultural Resource Inventory West of Davenport, North Dakota. MS #5806 (NDDOT, NDSHPO)

1991 Tribal Rangeland Redevelopment Program: A Class III Cultural Resource Investigation On Standing Rock Indian Reservation in Sioux County, North Dakota & Corson County, South Dakota. MS #5826 (BOR, BIA, NDSHPO, SDSHPO)

1991 Stanton UPA Site: A Class III Cultural Resource Inventory, Mercer County, North Dakota. MS #5607 (NDSHPO)

Stine, E. and A. Kulevsky
2001 Cultural Resources Reconnaissance Survey of the Banks of the Sheyenne River From the Red River to Peterson Coulee, in Cass, Richland, Barnes, Griggs, Nelson, Eddy, Wells and Benson Counties, North Dakota. MS#8302 (COE, NDSHPO)

1997 32MO27 Evaluative Testing, Morton County, North Dakota. MS #6870 (NDDOT, NDSHPO)

1996 KLJ-Consolidated Telephone Cooperative Rhame Exchange: A Class III Cultural Resource Inventory in Bowman and Slope Counties, North Dakota. MS #6855 (BLM, USFS, NDSHPO)

1995 Dickey County Rural Water System Phase I & II, Plan B: A Class I Cultural Resources Records Search, Dickey, LaMoure, Logan and McIntosh Counties, North Dakota. MS #6588 (NDSHPO)

1994 Garrison Wets, McLean County, North Dakota: Test Excavations of Twelve Sites (National Guard NDSHPO)

CURRICULUM VITAE

1993 Testing & Evaluation of Site 32SK855 Stark County, North Dakota. MS #6331. (NDDOT, NDSHPO)

1993 Lake Ashtabula Phase II Testing of Sites: 32BA425, 32GG11 and 32GG13 in Barnes and Griggs Counties, North Dakota. MS #6151 (COE, NDSHPO)

Stine, E., A. Kulevsky, and T. Madigan
2000 Phase II Testing and Evaluation of Four Archaeological Sites, 32GG3, 32GG36, 32BA7, and 32BA14 at Lake Ashtabula, Griggs and Barnes Counties, North Dakota. MS #7626 (COE, NDSHPO)

Stine, E., and A. McKibbin
1992 Coteau Freedom Mine Testing and Evaluation of Nine Sites in Mercer County, North Dakota. MS #6007 (NDSHPO)

Stine, E., A. McKibbin and C. Spath
1993 Hanging Out at the Rock: Excavation at 32ME1089, Mercer County, North Dakota. MS#6008 (NDSHPO)

Stine, E., D. Forsberg and A. Kulevsky
1998 A Class III Cultural Resource Inventory of the North Dakota Segment of the Alliance Pipeline (Milepost 0 to 323.87) Final Report and Addedum: 1998 Field Season. MS #7227. (FERC, NDSHPO)

Stine, E., M. Cassell and M. Hannum
1998 Alliance Pipeline Project: Phase II Testing and Evaluation of 37 Sites in North Dakota Volumes I & II. MS #7212 (FERC, NDSHPO)

Stine, E., M. Hannum and A. Kulevsky
1998 Phase II Testing and Evaluation of 21 Sites and Five Sites Revisited An Addendum to Alliance Pipeline Project: Phase II Testing and Evaluation of 37 Sites in North Dakota (Reports of Investigation Number 513). MS #7329 (FERC, NDSHPO)

Stine, E. and K. Pool
1992 The Camp Grafton Site: Evaluative Subsurface Testing of 32ED85 in Eddy County, North Dakota. MS #5825 (National; Guard, NDSHPO)

Stine, E., T. Madigan and A. Kulevsky
2001 Alliance Pipeline L.P.: Excavations at 32MH94, McHenry County, North Dakota Vol. 1 & II. MS#7959 (FERC, NDSHPO)

DAMITA JEAN HIEMSTRA
CURRICULUM VITAE

Permanent Address: 1820 East Capitol Ave. #323, Bismarck, North Dakota 58501
Telephone: (701) 214-1335
Country of Citizenship: United States of America
E-mail: damitahiemstra@hotmail.com

EDUCATION

December, 2003 University of Nebraska (UNL), Lincoln, Nebraska
- Masters of Arts in Anthropology
- Specialization in Professional Archaeology
- Thesis Title: *Preferential Targeting of Resource Islands: An Examination of Prehistoric Land Use on the Great Plains, Along the Southern Margin of the South Dakota Black Hills*

May, 1997 University of South Dakota (USD)
- Bachelors of Science in Anthropology
- Minor in Archaeology

May, 1993 Sheldon Public High School, Sheldon, Iowa

RESEARCH INTERESTS

Prehistoric Great Plains Archaeology
Fieldwork technique reforms

SKILLS

Working knowledge of these computer programs:

1. Photoshop 7.0
2. Pathfinder 2.80
3. SPSS 11.0
4. ArcView GIS 3.2a
5. Scanning software for pictures and slides
6. Surfer 7.0

Research abilities include:

1. Site identification and recordation
2. Expertise in survey, testing, and data recovery operations
3. Researching state, county, and local level documents
4. Researching environmental, physiographic, cultural, and ethnographic backgrounds
5. File searches for previously recorded sites
6. Compilation and clear organization and reporting of the above materials
1. Web-based teaching modules for public interactions with archaeology

PROFESSIONAL EXPERIENCE

August, 2004 Staff Archaeologist

Employer: Metcalf Archaeological Consultants, Inc.
Ed Stine, General Manager
P.O. Box 2154
Bismarck, North Dakota
(701) 258-1215

May, 2004 Web-Based Teaching Module Development for Four Archaeological Sites in Nebraska

Employer: Cooper Foundation
Under the supervision of Eric Kahldal, PhD
UNL, Anthropology and Geography Department
126 Bessey Hall, Lincoln, Nebraska 68588-0368
(402) 472-3925

1 Developed lessons and text for 4th through 8th grade education levels
2 Distribution of materials will be through the NebraskaStudies.org web-site

March 19-July 4, 2003 Teaching Assistant for UNL Archaeological Field School

Employer: LuAnn Wandsnider, PhD
UNL, Anthropology and Geography Department
126 Bessey Hall, Lincoln, Nebraska 68588-0368
(402) 472-8873

3 Supervised eight students for eight week course
4 Aided in field context as crew chief for both historic and prehistoric sites
- Engineer's Cantonment Site north of Omaha, Nebraska
- Hopeton Earthworks Site in Chillicothe, OH

January 10-May 10, 2003 Research Assistant

Employer: LuAnn Wandsnider, PhD
UNL, Anthropology and Geography Department
126 Bessey Hall, Lincoln, Nebraska 68588-0368
(402) 472-8873

1 Aided in inventorying and packaging in preparation for curation

August 24-December 20, 2002 Teaching Assistant for Introduction to Anthropology

Employer: Mary Willis, PhD
UNL, Anthropology and Geography Department
126 Bessey Hall, Lincoln, Nebraska 68588-0368
(402) 472-8873

2 Graded papers, tests, quizzes
3 Ran review sessions
4 Individualized help for students
5 Proctored exams

May 20-August 31, 2002 Internship for Professional Archaeology at University of South Dakota for University of Nebraska's Masters of Anthropology, Specialization in Professional Archaeology Program

Employer: University of South Dakota's Archaeological Laboratory
(Contact Brian Molyneaux)
414 East Clark Street, Vermillion, South Dakota 57069
(605) 677-5598

1 Wrote, edited, and prepared reports for production
2 Contacted clients and landowners in cultural resource management contexts
3 Implemented new filing system to aid in organization-both paper and computer

March 1999-August 2001 Assistant Lab Supervisor, Research assistant, University of South Dakota, Vermillion (same as above)

1 Oversaw student workers and lab technicians in daily tasks
2 Wrote, edited, and prepared reports for production
3 Contacted clients and landowners in cultural resource management contexts

October 1997-January1999 Field Technician in South Dakota, Iowa, Minnesota, Illinois, Wyoming, New York (same as above)

1 Crewed for pedestrian surveys, testing, data recovery
2 Inventoried and Recorded sites using GPS Trimble unit
3 Photographed sites
4 Worked with Native American monitors
5 Aided in historical significance evaluation of sites

July1995-October 1997 Research and laboratory assistant, Archaeology Laboratory, University of South Dakota, Vermillion (same as above)

1 Researched landowner histories using state, county and local records
2 Prepared maps, paperwork for field projects
3 Prepared maps and photos for report production
4 Edited reports
5 Formatted and Produced Reports

1993(June 1-July 10) Docent for Education Program, Center for American Archaeology
Supervisor: Daniel Goetley
P.O. Box 366
Kampsville, Illinois 62053
Phone: (618) 653-4316 Fax: (618) 653-4232

1 In-field aide for new students' instruction on field procedures and artifact identification
2 Laboratory aide for artifact processing
3 Washing, weighing, and cataloging
4 Helping in preparing lecture
5 Using flotation equipment to aid in analysis
6 Aiding in organizing field trips and various events.

FIELD WORK AS CREW CHIEF OR OTHER SUPERVISORY ROLE

2005 Rough Rider Road and Cell Phone Tower Location: A Class III Cultural Resource Pedestrian Survey in Billings County, North Dakota (USFS, NDFS)

2004 Highway 2 West, Michigan to Mapes: A Class III Cultural Resource Inventory, Nelson County, North Dakota (NDDOT)

2004 Highway 2 East, Niagra to Michigan: A Class III Cultural Resource Inventory, Nelson County, North Dakota (NDDOT)

2004 Hazen Flint Quarry: Results from Evaluative Testing at 32ME365 Mercer County, North Dakota (NDSHPO)

2004 Pedestrian Survey and Minor Testing of a Proposed Road Improvement Corridor (26 miles in length) in Palo Alto County, Iowa

2004 Pedestrian Survey of Selected Areas on Ravenna National Guard Training Base in Ravenna, Ohio

2001 A 2001 Pedestrian Survey Cultural Resource Inventory for a Proposed Telecommunications Project Site near Pacific Junction, Section 33, T71N R43W, Mills County, Iowa

2001 A 2001 Pedestrian Survey Cultural Resource Inventory at the Site of Proposed Replacement of Bridge # 301530 on 180th St. in Section 15 T89N-R36W, Sac County, Iowa

2000 Pedestrian Survey Cultural Resources Inventory for the Proposed Construction of an Additional Wastewater Lagoon for the City of Burt, Kossuth County, Iowa

FIELD WORK (served as crew member)

2002 A 2002 Pedestrian Cultural Resource Inventory at the Site of Proposed Waste Water Treatment Facility Improvements for the City of Battle Creek, Maple Township, Ida County, Iowa, USD ARCHLAB Project No. 200207

2002 Emergency Monitoring Project for North Point Recreational Area, near Pickstown, South Dakota

2001 Pedestrian Survey and Testing for a Cultural Resource Reconnaissance For Rural Water District No.1 of Chase County, Kansas

2001 Archaeological Reconnaissance and Testing in Three-mile and Forsythe Creek Drainage for a Proposed Waste Water Treatment Plant at Ft. Riley, Kansas

2001 Intensive Pedestrian Cultural Resource Survey for a Proposed Mobile Asphalt Plant in Jackson County, South Dakota

2001 An Intensive Pedestrian Cultural Resource Survey of Two Locations for a Proposed Wind Turbine Project in Brule County, South Dakota

2000 An Intensive Cultural Resource Survey of a Proposed Pipeline Construction Project at Adams Nature Center in Union County, South Dakota (T30N, R48W, Sections 17 & 9).

2000 A Pedestrian Survey and Cultural Resource Inventory of One Mile New Roadway Alignment on 190th Street from Elk Creek Road to Glen Ellen Rd in Sergeant Bluff, Section 16 T88N R46W, and Realignments on Glen Ellen Rd and Elk Creek Rd, Section 21 T88N R46W, Woodbury County, Iowa

2000 Cultural Resource Assessment of the SW corner of the intersection of SD Highway 44 and SD Highway 49, NE1/4 of the NE1/4 of Section 22, T99N, R75W, in Tripp Co., SD.

1999-2000 A Pedestrian Survey and Testing for a Cultural Resource Evaluation of a Proposed Railway Corridor from the Coal Mines in the Powder River Basin, Wyoming to the South Dakota Border for the Dakota, Minnesota and Eastern Corporation's Powder River Basin Expansion Project

1999-2000 A Pedestrian Survey and Testing for a Cultural Resource Evaluation of a Proposed Railway Corridor From Wall, South Dakota to the Wyoming Border for the Dakota, Minnesota and Eastern Corporation's Powder River Basin Expansion Project

1998 Pedestrian Survey of the Wolf Lake WPA and Black Rush Lake WPA, Windom and Big Stone

Wetland Management Districts, Minnesota

1998 Intensive Testing of Twin Kettle Hole Ponds on the Naval Weapons Industrial Base near Calverton, Long Island, New York

1998 Data Recovery and Mitigation of the Cowan Site: A Great Oasis Village, Sioux City, Iowa

1997 Highway 60 LeMars - Minnesota Border Archaeological Resources Survey: A Testing and Analysis of Segment II of the Highway Corridor

1997 Highway 60 LeMars - Minnesota Border Archaeological Resources Survey: A Data Recovery Analysis of Segment I of the Highway Corridor

1997 Hospers By-pass Addendum to the Highway 60 Le Mars – Minnesota Border Archaeological Resources Survey: A Pedestrian Survey Analysis of Segment II of the Highway Corridor

1996 National Register Site Testing at Sites 32ML229, 32ML237, 39ML239, 39ML243 at the National Guard Recreation Area, Lake Sakakawea, McLean County, North Dakota for Corp. of Engineers.

1995-1996 Data recovery analysis of Segment II of Highway 60 Project, Lemars to the Minnesota line (Plymouth, Sioux, O'Brien, and Osceola counties) for RUST Environment and Infrastructure, Inc.

1995-1996 Testing Survey, Highway 60 Project, LeMars, IA to the Minnesota line (Plymouth, Sioux, O'Brien, and Osceola counties) for RUST Environment and Infrastructure, Inc.

1995 Pedestrian Survey of Redwater and Sheepnose Timber Sales, Black Hills National Forest.

1995 Archaeological Field School at the University of South Dakota, Vermillion. Data Recovery of Old Main, a 19th Century University building.

1993 Docent, Center for American Archaeology, Kampsville, Illinois. Duties included teaching and supervising students in the excavation process, recording and cataloging artifacts, helping in preparing lectures, using flotation equipment to aid in analysis, aiding in organizing field trips and various events. Project Director: Dan Goetley.

1992 National Science Foundation for Young Scholars Archaeological Field School at the Center for American Archaeology in Kampsville, Illinois. The site was middle Woodland subsistence gathering and hunting camp. Project Director: Dan Goetley.

REPORTS (AUTHOR/ CO-AUTHOR)

2005 Plains Pipeline Trenton Loop: A Class III Cultural Resource Inventory in Williams and McKenzie Counties, North Dakota (NDSHPO)

2005 Rough Rider Road and Cell Phone Tower Location: A Class III Cultural Resource Pedestrian Survey in Billings County, North Dakota (USFS, NDFS)

2005 White Shield Rock Piles and Intake Locations: A Class III Cultural Resource Inventory in McLean County, North Dakota (BIA, NDSHPO)

2005 Grasslands Pipeline: Archaeological Investigations in Billings, Dunn, Golden Valley, & Stark Counties, North Dakota (NDSHPO)

2004 Verifications Lose South of Mandan: Evaluative Testing of 32MO1378, Morton County, North Dakota (NDSHPO)

2004 Hazen Flint Quarry: Results from Evaluative Testing at 32ME365 Mercer County, North Dakota (NDSHPO)

2001 A Pedestrian Cultural Resource Inventory for a Proposed Telecommunications Tower Near Pacific Junction, Section 33, T71N, R43W, Mills County, Iowa (Approximately 50 pages)

2001 A 2000 Intensive Pedestrian Survey For a Proposed Asphalt Plant and Borrow Area in Gregory County, South Dakota (Approximately 50 pages)

REPORTS

Report Production includes graphic preparation, editing, formatting

2002 A 2001 Pedestrian Cultural Resources Survey Of State Highway 19 From Mile 307 To Mile 317.5 In Clay County, South Dakota Grading, Structures & Interim Surfacing, SDDOT Project No. P 0019(04) 4 PCMES 5637 (approx. 80 pages)

2002 A 2001 Pedestrian Cultural Resources Survey Of State Highway 19 From Mile 307 To State Highway 46 In Clay County, South Dakota Grading, Structures & Interim Surfacing, SDDOT Project No. P 0019(15) 15 PCMES 5731(Approx. 75 pages)

2001 Archaeological Reconnaissance and Testing in Three-mile and Forsythe Creek Drainage for a Proposed Waste Water Treatment Plant at Ft. Riley, Kansas (Approx. 150 pages)

1999-2000 A Survey and Testing Cultural Resource Evaluation of the DM&E Railroad Corporation's Proposed Powder River Expansion Project from Wall, South Dakota to the Wyoming Border for the Dakota, Minnesota and Eastern Corporation's Powder River Basin Expansion Project (Approx. 1500 pages)

1997 Field Summary Of A Cultural Resource Inventory At Devil's Tower National Monument, Wyoming [Contract No. 1443 - Cx - 1230 - 97 001] (Approx. 1500 pages)

1997 Highway 60 LeMars - Minnesota Border Archaeological Resources Survey: A Testing Analysis of Segment I of the Highway Corridor (Approx. 300 pages)

1997 Highway 60 LeMars - Minnesota Border Archaeological Resources Survey: A Testing Analysis of Segment II of the Highway Corridor (Approx. 300 pages)

1997 Highway 60 LeMars - Minnesota Border Archaeological Resources Survey: A Data Recovery Analysis of Segment I of the Highway Corridor (Approx. 300 pages)

1997 Hospers By-pass Addendum to the Highway 60 Le Mars – Minnesota Border Archaeological Resources Survey: A Pedestrian Survey Analysis of Segment II of the Highway Corridor (Approx. 50 pages)

1997 Results of the 1997 Archaeological Survey and National Register Evaluation of Devil's Tower National Monument, Crook County, Wyoming (Approx. 200 pages)

PRESENTATIONS AT PROFESSIONAL CONFERENCES

Communication Issues in Archaeology

1 Presented at the 2002 Plains Conference, Norman, OK

2 Presented at the 2002 Nebraska Academy of Sciences

AWARDS, FELLOWSHIPS, GRANTS

McGuiness Prize Award ($385.00)

1 Communication Issues in Archaeology

Graduate Fellowship (Fall, 2001-Fall, 2003)

2 In-state tuition remission

PROFESSIONAL SOCIETIES

Plains Anthropological Society

Society for American Archaeology

J. P. Davis
3900 Crestgate Ave.
Midland, Texas 79707
Telephone (915) 520-6228

EXPERIENCE:

Administrative: Project management, fiscal budgeting, economic evaluation and cost analysis, planning and scheduling systems, manpower allocation for major projects, development of maintenance and operating procedures and personnel. Responsible for obtaining and use of operator training and procedural manuals as required by the DOT. Maintained customer base and relations by addressing concerns and obtaining a mutually agreeable result beneficial to the customer and the company.

Technical: Design and construction of gas and liquid pipelines, on shore and off shore, pump stations, pipeline and fuel terminal and metering facilities. Technical troubleshooting and repair of plant rotating equipment and mechanical equipment and associated piping systems, design and retrofit modifications to existing piping and heat exchanger systems.

POSITIONS HELD:

Plains All American Pipeline
Midland, Texas

Senior Project Engineer
This position responsible for AFE generation for Maintenance and Capital projects, installation and inspection of mainline and gathering pipeline systems, troubleshooting hydraulic and equipment problems, sizing lines pumps. Repair and hydrostatic testing of pipelines to meet DOT Part 195 requirements. Responsible for Project Management of various expansion projects in Montana, and North Dakota. Responsibilities included, design, equipment selection, construction and operation of the designed systems.

Link Energy
Midland, Texas – Same as Eott Energy

EOTT Energy Pipeline & Operating Limited Partnership
Midland, Texas

Division Engineer This position responsible for AFE generation for Maintenance and Capital projects for the Midland pipeline and trucking districts, installation and inspection of mainline and gathering pipeline systems, troubleshooting hydraulic and equipment problems, sizing and installing pumps. Repair and hydrostatic testing of pipelines to meet DOT Part 195 requirements.

Pipeline Manager This position responsible for the management of budget, planning, operation and maintenance for 417 miles of crude mainline and 97 miles of crude gathering pipeline

operated under two partnerships. One Partnership FERC and DOT regulated and the other a company owned pipeline and gathering system. Responsibilities included, a satellite operated SCADA control system, setting of FERC tariff rates and scheduling of interconnecting shippers and customers. Knowledge and compliance with CFR Part 195 and 199 State and Federal environmental regulations, FERC regulations and requirements. Responsible for maintaining customer base and relationships through shipper and company contacts.

Sinclair Pipeline Company
Sinclair, Wyoming

Pipeline Manager This position responsible for the management of budget, planning, operation and maintenance for 650 miles of crude and products pipelines. As a privately held company monies saved from its operation was not declared as revenue but used to add to the overall profit of the company. Knowledge and compliance with CFR Part 195 and 199, State and Federal environmental regulations was required. Maintained customer base and relationships through interconnecting carriers and company contacts.

Boeing Petroleum Services, Inc. (BPS/SPR)
Bryan Mound Site, Freeport, Texas

Boeing Petroleum Services, Inc. (BPS/SPR)
Hackberry, Louisiana

Petroleum Operational Support Services, Inc. (POSSI/SPR)
A KANEB Company, Hackberry, Louisiana

Complex Manager This position was responsible for management and operation of the two largest Department of Energy (DOE) Strategic Petroleum Reserve (SPR) sites, their planning, site budget, operation, maintenance, construction activities, quality control, security, Federal, and State safety and health concerns. Responsible for activities of 180 to 200 personnel.
Quarterly evaluations by the Department of Energy determined the amount of award fee generated (profit). Complex performance award was usually between 93 and 95% of fee available.

Cities Service Company
Petrochemicals Division, Lake Charles, Louisiana

Plant Engineer Responsible for two Ethylene/Propylene Plants, Ethylene Oxide Plant, Plastic Plant, Ammonia Plant, and steam generation facilities. Responsible for troubleshooting all equipment problems. Equipment included: Boilers, Ethylene Cracking Furnaces, Frame 5 Turbines, Ethylene compressor trains, pumps, vessels, heat transfer units, steam systems, pressure relief valves and cooling towers.

Project Engineer responsible for the major rebuild of the original Ethylene/Propylene and Ethylene Oxide plants.
Staff Engineer responsible for troubleshooting and correcting equipment problems in the Petrochemical Plant Complex. Performed efficiency audits and made recommendations to improve reliability and reduction of and or elimination of recurring maintenance costs.

Eagleton Engineering Company
Louisiana Offshore Oil Port (LOOP)
Houston, Texas

Principal Engineer/Project Engineer Responsible for concept and design for the diesel fuel and firewater supply systems. Obtained Federal and State agency permits for the pipeline facilities. Specified materials and assigned responsibility for obtaining materials for the 48", 30" and 4" pipelines.

Gulf Pipeline Co.
Monahans Area, Midland, Texas

Area Superintendent Supervised the operation and maintenance of 350 miles of crude and LPG gathering and main transmission pipelines, 3 gathering districts, 3 tank farms and main line pump stations. Planned annual, 3 year and 5 year budget forecasts. Supervised 42 employees.

Project Engineer Assigned total responsibility for the reactivation of the Bolivian 350 mile 24" gas pipeline to Argentina.

Project Engineer Responsible for conversion of Gulf Marketing facilities to bottom loading and installation of vapor recovery systems on all of Gulf Oil's product terminals.
Senior Engineer Assigned to evaluate various Gulf Marketing and Product terminals for sale or renovation.

EDUCATION:	B. S. Mechanical Engineering (1967) Louisiana State University
REGISTRATIONS:	**Registered Professional Engineer** Louisiana - #14389 Texas - #33570
MEMBERSHIPS:	ASME-Member
REFERENCES:	On Request

Daniel Jay Holli
Plains Pipeline, L.P.
303 6th Ave NE Belfield, ND 58622
(701) 575-4254

EXPERIENCE Chemical Engineer with eight years work experience in environmental permitting, environmental compliance and safety training.

EDUCATION & TRAINING Bachelor Degree in Chemical Engineering, May, 1989
Oil Spill Response, Asbestos Abatement, Process Hazard Analysis, RCRA, NSPS, and 24 hour Hazwoper training

WORK HISTORY

Division Environmental Specialist 11/97 to present – Belfield, ND

I have been employed at the same address since 11/97 by the following companies through various mergers or acquisitions.

Plains Pipeline L.P. Link Energy L.P. EOTT Energy L.P.
EPSC (Northern Border Pipeline and EOTT Energy) Koch Pipeline Company, L. P.

Manage Environmental Compliance

- Look for and anticipate activities that may require environmental intervention by effectively working with operations and providing environmental support for these activities.
- Interpret State and Federal environmental regulations related to operation's needs, including NSPS, CAA, CWA, RCRA, TSCA, and DOT/RSPA.
- Educate employees how to comply with their facility permits.
- Prepare applications and obtain approval for facility construction permits on a timely basis that allow for maximum operational flexibility.
- Develop rapport with state and other regulatory agencies.
- Prepare and submit all required environmental reports to management and to agencies on a timely basis.
- Regularly inform management of the facility environmental compliance status.
- Work within a team to accomplish objectives set by management.
- Serve as a catalyst to promote a culture of environmental compliance through direct interaction with employees and management.
- Manage and coordinate efforts to clean up and remediate crude oil spills.

Assist With Compliance Training and Emergency Response.

- Develop and conduct safety, environmental, and DOT training as needed
- Manage the emergency response program for the region and regularly update the Emergency Response Manuals.
- Manage the Public Awareness Program.
- Administer Operator Qualification Training Program.

WORK HISTORY (continued)

Koch Hydrocarbon CoEnvironmental Compliance /
Process Safety Management Coordinator 5/95 – 10/97
Plant Engineer / PSM, Process Operator 3/92 – 5/95
Medford, Oklahoma *March 1992 to November 1997 for all positions*

Manage Environmental Compliance & PSM, work in Operations and work as an engineer
While working at the Medford Fractionator I was instrumental in developing and implementing an environmental compliance program and managed the Process Safety Management (PSM) program for the Division. I developed Process Safety Information and Operating Procedures for the facility and I assisted the Safety Department with training and projects on occasion. Some of my major accomplishments are shown below.

- Assisted with a $1.5 MM project at the Medford Fractionator to increase throughput and reduce emissions at the facility while maintaining operational flexibility.
- Trained employees in their environmental duties and responsibilities.
- Developed permits and permit amendments to support process changes.
- Prepared and submitted permit required reports to State and Federal Agencies.
- Initiated, developed and managed a valve leak testing program.
- Gained useful process experience by working in operations as a plant operator.
- Designed and proposed process improvements to reduce operating costs.
- Developed PSM programs for Division facilities in Kansas, Oklahoma, and Texas and served as a catalyst with management and employees to ensure compliance.
- Managed the Process Hazard Analyses Program and verified the completion of findings.
- Built new operations procedure manuals and redlined over 150 facility process drawings.

Koch Hydrocarbon CoPlant Engineer
McKenzie Gas Plant
Sidney, Montana *November 1989 -- March 1992*

Plant Engineer
- Performed quality checks on hydrocarbon products and specified equipment and sized piping.
- Assisted to update Process & Instrumentation Drawings as needed.
- Helped manage a project to move and reconstruct an entire cryogenic gas plant and troubleshoot problems during startup.

PLAINS
PIPELINE, L.P.

April 18, 2005

Mr. Randy Kowalski
North Dakota Department of Health
Water Quality Division
P. O. Box 5520
Bismarck, ND 58506-5520

Dear Mr. Kowalski:

Attached is a NPDES General Stormwater Permit application to construct 7 miles of 10 inch steel pipeline to parallel an existing six inch pipeline in McKenzie and Williams Counties in North Dakota.

I can be reached at (701) 575-4254 ext. 34 to answer any questions you may have.

Respectfully,

Dan Holli

Daniel Holli
Environmental and Regulatory Compliance Specialist

APPLICATION (NOTICE OF INTENT) TO OBTAIN COVERAGE UNDER NDPDES GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (NDR10-0000)

NORTH DAKOTA DEPARTMENT OF HEALTH
DIVISION OF WATER QUALITY
SFN 19145 (2/05)

FOR DEPT. USE ONLY

Application No.
Date Received

GENERAL INFORMATION

Name of Owner of Construction Project	Contact Person Name	Contact Person No.
Plains Pipeline, L.P.	Daniel Holli	(701) 575-4254

Mailing Address	City	State	Zip Code
P. O. Box 708 Belfield, ND	Belfield	ND	58622

Type of Owner or Operator: ☐ Developer/Builder ☐ State of ND ☐ General Contractor ☐ Federal ☐ Municipality ☒ Other (Specify): Limited Partnership

This NOI is to obtain coverage under Small Construction Activity (see Part I.D of permit): ☐ YES ☒ NO

Small Construction Activity requires the submittal of an Annual Location Record as per Part III.B of the permit

Name of Construction Project (Large Construction Activity only)
Trenton 10 inch pipeline loop

Brief Description of Construction Activity (Please fill out for **both** Large and Small Construction Activity)
Construct a 10 inch diameter pipeline for approximately 7 miles in both McKenzie and Williams Counties.

LARGE CONSTRUCTION ACTIVITY INFORMATION (Skip for small construction activity)

Name of Operator Working at Site (i.e. general contractor, if known)	Contact Person Name	Contact Phone No.
Master Corporation	Mac McKnight	(406) 433-4332

Mailing Address	City	State	Zip Code
P. O. Box 831	Odessa	TX	79762

Project Start Date:	Estimated Completion Date:	Estimated Area of Total Disturbance in Acres:
4/15/05	10/30/05	42.50

Project Location	Street	City				
	Refer to map					
	OR 1/4 1/4	Section	Township	Range	County	

Receiving Waters			
	☒ Natural Surface Drainage	Name or Description of Receiving Waters	Missouri River
	OR ☐ Municipal Storm Sewer	Name of City	

SIGNATURE INFORMATION

RETURN COMPLETED APPLICATION TO:

North Dakota Department of Health
Division of Water Quality
1200 Missouri Ave., Rm. 203
PO Box 5520
Bismarck, ND 58506-5520

Telephone: (701) 328-5210

I certify that I am familiar with NDR10-0000 and NDCC 61-28-08, and with the possibility of fines and imprisonment for submitting false information. To the best of my knowledge and belief, the information in this application is true, complete, and accurate.

Printed Name of Owner(s)	Title
Jordan Janak	Director, Environmental
Signature of Owner(s)	Date
Jordan Janak	4/4/05
Printed Name of Operator(s)	Title
Ed Shypkoski	Manager, Belfield Region
Signature of Operator(s)	Date

(Attach additional pages if needed)

CONSTRUCTION STORM WATER POLLUTION PREVENTION PLAN
NORTH DAKOTA DEPARTMENT OF HEALTH
DIVISION OF WATER QUALITY
SFN 19388 (2/05)

NORTH DAKOTA DEPARTMENT OF HEALTH NDPDES PROGRAM

Construction Storm Water Pollution Prevention Plan Guidance Forms

CONTENTS

Use the following information as a checklist for developing the Storm Water Pollution Prevention Plan.

1. ☑ PROJECT DESCRIPTION
2. ☑ SITE MAP DEVELOPMENT
3. ☑ SIGNATORY CERTIFICATION
4. ☑ BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL
5. ☑ OTHER BEST MANAGEMENT PRACTICES
6. ☑ SIGNIFICANT MATERIALS
7. ☑ ADDITIONAL OWNERS/OPERATORS
8. ☑ SITE INSPECTION RECORD

A SWPPP must be prepared and implemented for all construction activities covered under NDR10-0000. A copy of the SWPPP must be submitted to the Dept. of Health for projects that involve 50 or more acres, or have a discharge point located within 2000 ft of, and flow to, a water body that is listed as impaired due to sediment or parameters associated with sediment transport.

PROJECT DESCRIPTION

Project Name	Trenton 10 inch pipeline loop
Project Type	Pipeline Construction
Project Location	Refer to attached map
Estimate of Project Size in Acres	7 miles of pipeline with 50 foot ROW -- 42.5 Acres

Description of the Nature of Activity

Construct a crude oil pipeline approximately 7 miles of length from the NW 1/4 of S30 T152N R104W on the Montana border in Mckenzie County to the SE 1/4 of S11T152N R104W in Williams County, ND. The pipeline will be constructed of 10 inch welded steel.

Also from the SW 1/4 of S10 T153N R102W to the SE 1/4 S34 T154N R102W.

Description of Existing Soils, Fill Material, and Erodibility of Such Soils

Soils are expected to be Class B soils -- clay or sandy clay.

Proposed Timetable for Construction Phases or Activities

Construction should take 3-4 weeks. Proposed start time is May 1, 2005

Name of Receiving Waters or Municipal Separate Storm Sewer System (MS4)

Missouri River and unnamed tributaries or conveyances to the Missouri River.

SITE MAP DEVELOPMENT

The site map should be suitably scaled and drawn to show the following required information:

MAP FEATURES

Use the following information as a checklist for developing the site map.

1) ☑ Construction site boundaries and area(s) of soil disturbance.

2) ☑ The location of springs, streams, wetlands, and other surface waters.

3) ☑ The location of areas used for storage of building materials, soils, or waste materials. on ROW

4) ☑ The locations of proposed and existing storm water controls.

5) ☑ Storm water runoff/run on drainage patterns.

6) ☑ Section, township, range, or street address.

SIGNATORY CERTIFICATION

INSTRUCTIONS: The following statement shall be signed by a responsible corporate officer, general partner, principle executive officer or ranking elected official. The statement may be signed by a duly authorized representative of the person above in accordance with Part IV-E of the permit.

CERTIFICATION

"I Jordan Janak, certify under penalty of law that I have personally examined and am familiar with the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Printed Name of Applicant Jordan janak

Title Director, Environmental

Signature of Applicant Jordan Janak

Date 4/4/05

BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL

EROSION & SEDIMENT CONTROL PRACTICES:

☐ Straw Bale Dikes	☐ Sediment Traps	☐ Concrete Washout Area
☑ Silt Fences	☐ Temporary Sediment Basins*	☐ Flocculation Sock
☐ Rock Checks	☐ Cut Back Curb	☐ Stockpile Protection
☐ Brush Barriers	☐ Stabilized Construction Access	☐ Dewatering Bag
☐ Sediment Logs/Biorolls	☐ Terraces/Contours	
☐ Geotextile Triangular Dikes	☑ Drainage Swales	
☐ Floating Silt Curtain	☐ Pipe Slope Drains	
☐ Drain Inlet Protection	☑ Temporary Drain Diversion/Berms	

Additional Practices:

Water bars will be constructed on steep slopes to divert stormwater onto vegetated areas. Silt fencing will be used at the base of steep slopes and adjacent to the Missouri River Crossing as necessary. A directional bore under the Missouri River will allow several hundred feet of vegetated land between disturbed soil and the river.

* Sediment basins must be provided, where practical, when 10 or more acres of disturbed area drain to a common location. Guidelines for designing, implementing and maintaining sediment basins may be found in Appendix 1 of the permit.

STABILIZATION PRACTICES:

☐ Temporary Seeding	☑ Permanent Seeding	☐ Riprap Slopes
☐ Mulching	☐ Retaining Wall	☐ Surface Roughening
☐ Filter/Vegetative Strips	☐ Tree/Shrub Planting	☐ Rock Outlet Protection
☐ Erosion Control Blankets	☐ Sod Stabilization	

Additional Practices:

The pipeline trench will be refilled and leveled as soon as feasible to reduce chances for erosion to occur.

OTHER BEST MANAGEMENT PRACTICES

Spill Prevention methods, post construction controls and site inspections/maintenance

Description of Spill Prevention and Response Procedures (e.g. Fueling, Maintenance, Staging Areas):
Operators of construction equipment will take all reasonable efforts to avoid refueling on the right of way. Care will be taken to see that any fuel or hydraulic fluid spills will be cleaned up promptly if they should occur.

Description of Post Construction Controls (e.g. Detention/Retention Ponds, Constructed Wetlands):
Reseeding will be done on disturbed areas. Inspections will be done as required to monitor erosion. Any areas where significant erosion occurs will be repaired immediately.

Description of Procedures for Site Inspections and Maintenance:
Site inspections will be made by visually observing the condition of the disturbed right of way. Maintenance will take place if areas of erosion occur.

OTHER BEST MANAGEMENT PRACTICES

Description of sediment tracking reduction and sediment recovery methods

Will any contaminated soils potentially be encountered: ☑ Yes ☐ No

If yes, please attach a description of the methods used for handling and disposing of the contaminated soils.

Description of Methods to Reduce Sediment Tracking:
Two paved roads will be encountered on the construction project. All other roads are gravel roads. Gravel roads will be protected from excess tracking of soil by keeping non-essential vehicles on established roads. Heavy equipment will be inspected and large chunks of soil will be knocked off before driving on gravel roads or on paved roads.

Description of Methods for Recovering Tracked Sediments (e.g. Street Sweeping):
Sediments that migrate off the right of way after a significant rainfall event will be returned to the right of way as much as practicable. This will be done by using a scraper or backhoe to recover migrated soils.

Description of Methods for Recovering Sediments from Sediment & Erosion Control Devices:
Sediments will be recovered using a front end loader or bulldozer to scrape sediments from the surface down to the ground level prior to migration. These sediments will be placed onto the right of way for stabilization. If erosion potential continues to exist for an eroded area following restoration of migrated sediments, additional controls will be used as necessary.

SIGNIFICANT MATERIALS

INSTRUCTIONS: Based on your site's material inventory, provide the following information. For the definition of "significant materials," see Part V of the permit. The **location** of the significant materials should be indicated on the site map. See example below:

MATERIAL	QTY KEPT ONSITE	DISPOSAL METHOD FOR WASTE OR SPILLS	POLLUTION PREVENTION MEASURES
Ex: Diesel Fuel	Ex: 500 gallons	Ex: Using NDDoH Waste Management Guidelines	Ex: Berm constructed around tank to capture any spills or leaks. Employees have been trained to prevent spills during fueling process and to contact management if a spill occurs.
Welding rod ends	N/A	Pick up rod ends	Clean up scrap pieces after construction is completed.
Metal scraps	N/A	Pick up metal scraps	Clean up scrap after construction is completed.
Wood timbers	N/A	Pick up wood	Clean up wood scraps when construction is completed.
Discarded pipe coating materials	N/A	Pick up for disposal	Maintain plastic bags on site to put garbage into.

(Attach additional pages if needed)

ADDITIONAL OWNERS/OPERATORS

INSTRUCTIONS: This section is provided to include additional owners and operators that may be designated by the permit holder to perform activities on a project (i.e. subcontractor). The additional owners/operators must adhere to this Storm Water Pollution Prevention Plan. The use of this section is intended for projects involved in "large" construction activity. It may also be used for "small" construction activity as a record for the owner.

Signatory

"I certify under penalty of law that I have personally read, understood, and accepted all terms and conditions of this Storm Water Pollution Prevention Plan, and that I shall implement the Plan accordingly. I am also familiar with the NDPDES General Permit for Storm Water Discharges Associated with Construction Activity (NDR10-0000).

Printed Name	Signature	Title	Company Name	Date
Max E Nichols	Max E. Nichols	President	Jomax Construction Co., inc.	4-12-05

SITE INSPECTION RECORD

Time & Date	Name of Inspector	Amount (inches), & Duration (hours) of Precipitation event	**Observations and actions taken**: Document incidents such as erosion, sediment accumulation, spills, SWPP-related maintenance, remediation, etc.

Directional Bore

Directional Bore

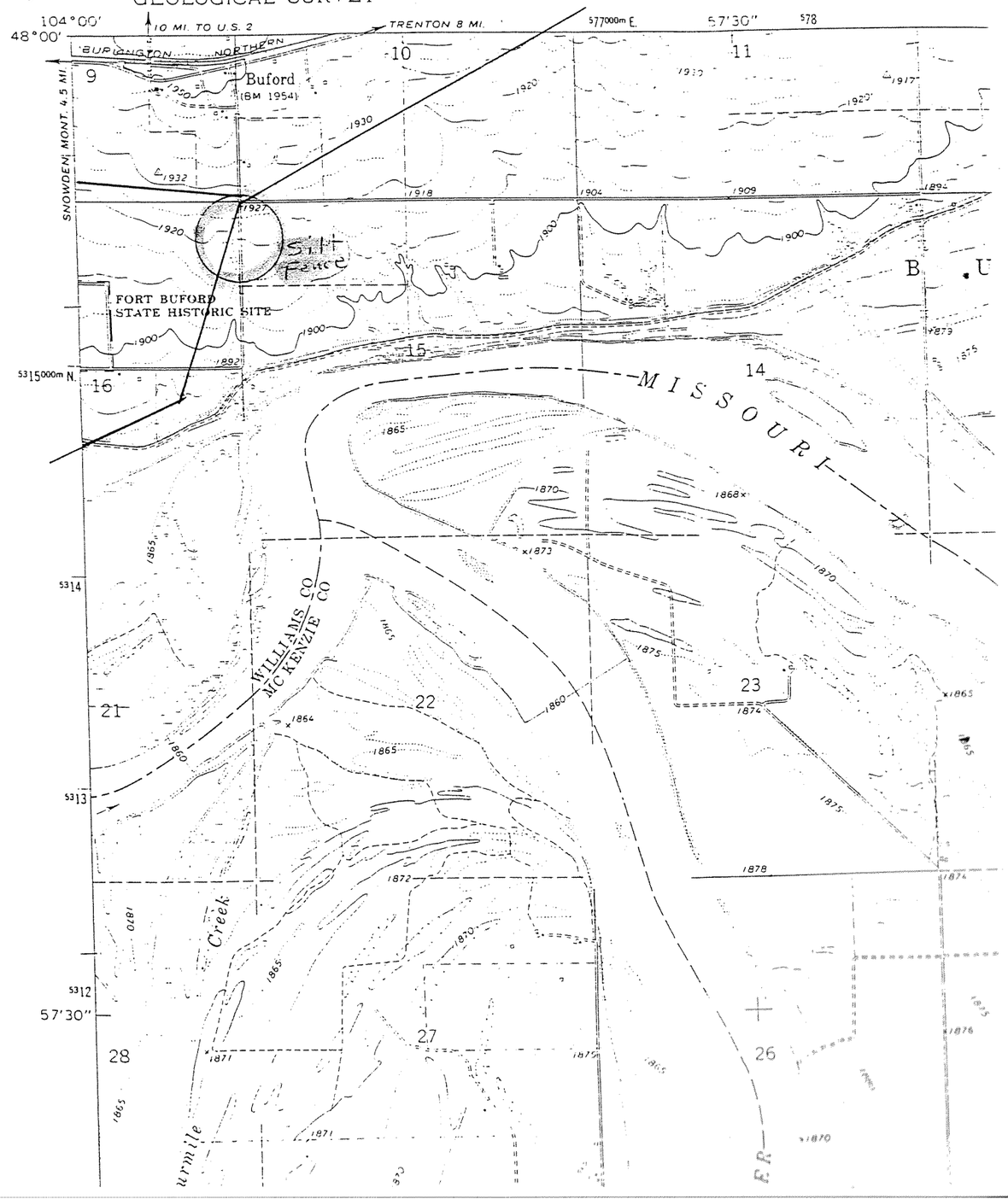
Montana Border

Silt Fence

T 152 N
R 104 W

5180 II SE
(BAINVILLE SE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



by the Geological Survey
e Interior program
Missouri River Basin

ethods from aerial
ld checked 1968

American datum
Dakota coordinate system, north zone
rse Mercator grid ticks,

cted fence and field lines where
aphs. This information is unchecked

UTM GRID AND 1968 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

SCALE 1:24000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Secondary highway, all weather, hard surface
Light-duty road, all weather, improved surface
Unimproved road, fair or dry weather

NORTH DAKOTA
QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242
AND BY THE STATE WATER COMMISSION, BISMARCK, NORTH DAKOTA 58501
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

TRENTON SW, N. DAK.

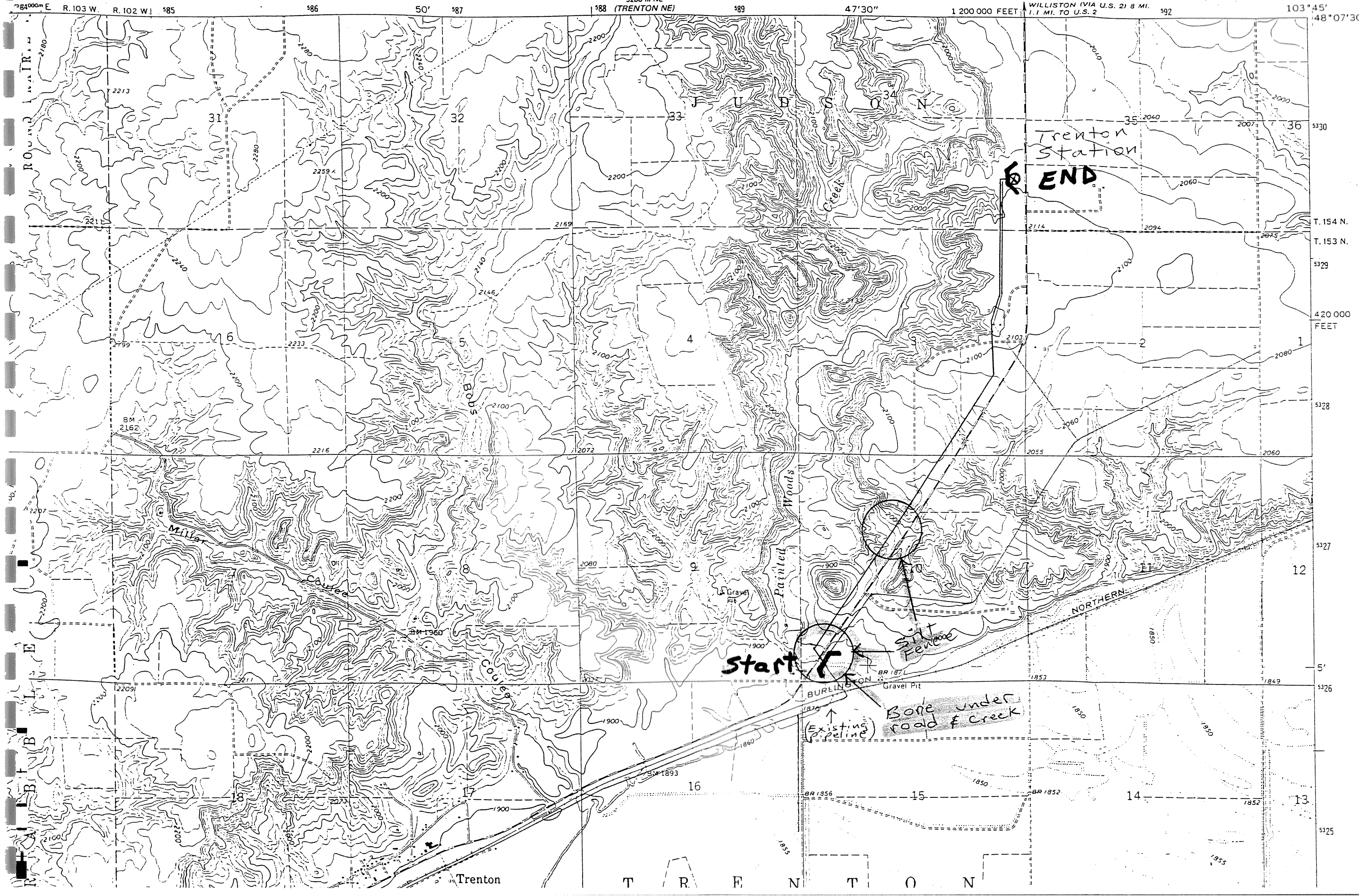
N4800—W10352.5/7.5

1968

AMS 5280 III SW—SERIES V871

EOLOGICAL SURVEY

NORTH DAKOTA
7.5 MINUTE SERIES (TOPOGRAPHIC)



NORTH DAKOTA
DEPARTMENT *of* HEALTH

ENVIRONMENTAL HEALTH SECTION
1200 Missouri Avenue, Bismarck, ND 58504-5264
P.O. Box 5520, Bismarck, ND 58506-5520
701.328.5200 (fax)
www.ndhealth.gov

April 26, 2005

Daniel Holli
Plains Pipeline, L.P.
P.O. Box 708
Belfield, ND 58622

RE: Notice of Coverage under
Construction Storm Water General Permit **NDR10-1108**

Dear Mr. Holli,

We have reviewed your application for coverage under the North Dakota Pollutant Discharge Elimination System (NDPDES) general permit for storm water discharges from construction activity. Your application has been assigned serial number:

Permit #	Site name
NDR10-1108	**Trenton 10" pipeline loop**

Please remember to update the Storm Water Pollution Prevention (SWPP) Plan when necessary, and to inspect, maintain and adjust the BMP and temporary structures until the site is stabilized following construction activities. Once the site is stabilized as outlined in the general permit, you may file for termination of permit coverage.

Cities or counties may impose additional requirements and/or specific BMPs for construction affecting their storm drainage system. Please check with the local officials to be sure all local storm water management considerations are addressed.

If you have any questions, please contact me at (701) 328-5242 or at dgrossma@state.nd.us. New Notice of Intent, Notice of Termination, Transfer/Modification, and SWPP Plan forms can be found at our website: www.health.state.nd.us/wq.

Sincerely,

Dallas J. Grossman
Environmental Engineer
Division of Water Quality

NORTH DAKOTA
DEPARTMENT of HEALTH

ENVIRONMENTAL HEALTH SECTION
1200 Missouri Avenue, Bismarck, ND 58504-5264
P.O. Box 5520, Bismarck, ND 58506-5520
701.328.5200 (fax)
www.ndhealth.gov

May 11, 2005

Daniel Holli
Environmental and Regulatory
Compliance Specialist
Plains Pipeline, L.P.
PO Box 708
Belfield ND 58622

RE: Construction Storm Water Permits NDR10-1035 and NDR10-1108
Change in Pipeline Route and Alternative Inspection Plan

Dear Mr. Holli:

We recently received revised SWPP plans information and alternative inspection plans for two pipeline construction projects. The projects were assigned the above referenced permit numbers under the NDPDES general permit to discharge storm water from construction activity (NDR10-0000). We have no objection to the proposed revisions to the SWPP plans or the alternative inspection plans proposed under the provisions of Part III.A.5 of the permit.

Should you have any question, please contact me at (701) 328-5244.

Sincerely,

Randy Kowalski
Environmental Scientist
Division of Water Quality

PLAINS
PIPELINE, L.P.

May 16, 2005

Mr. Randy Kowalski
North Dakota Department of Health
Water Quality Division
P. O. Box 5520
Bismarck, ND 58506-5520

Dear Mr. Kowalski:

Plains Pipeline requests that an additional five miles of pipeline be added to the approved Stormwater Construction Permit no. NDR10-1108. The existing Notice of Intent and Stormwater Pollution Prevention Plan will remain the same as in the original application.

Maps are attached to indicate where the proposed five miles will be added and are indicated by a dotted line.

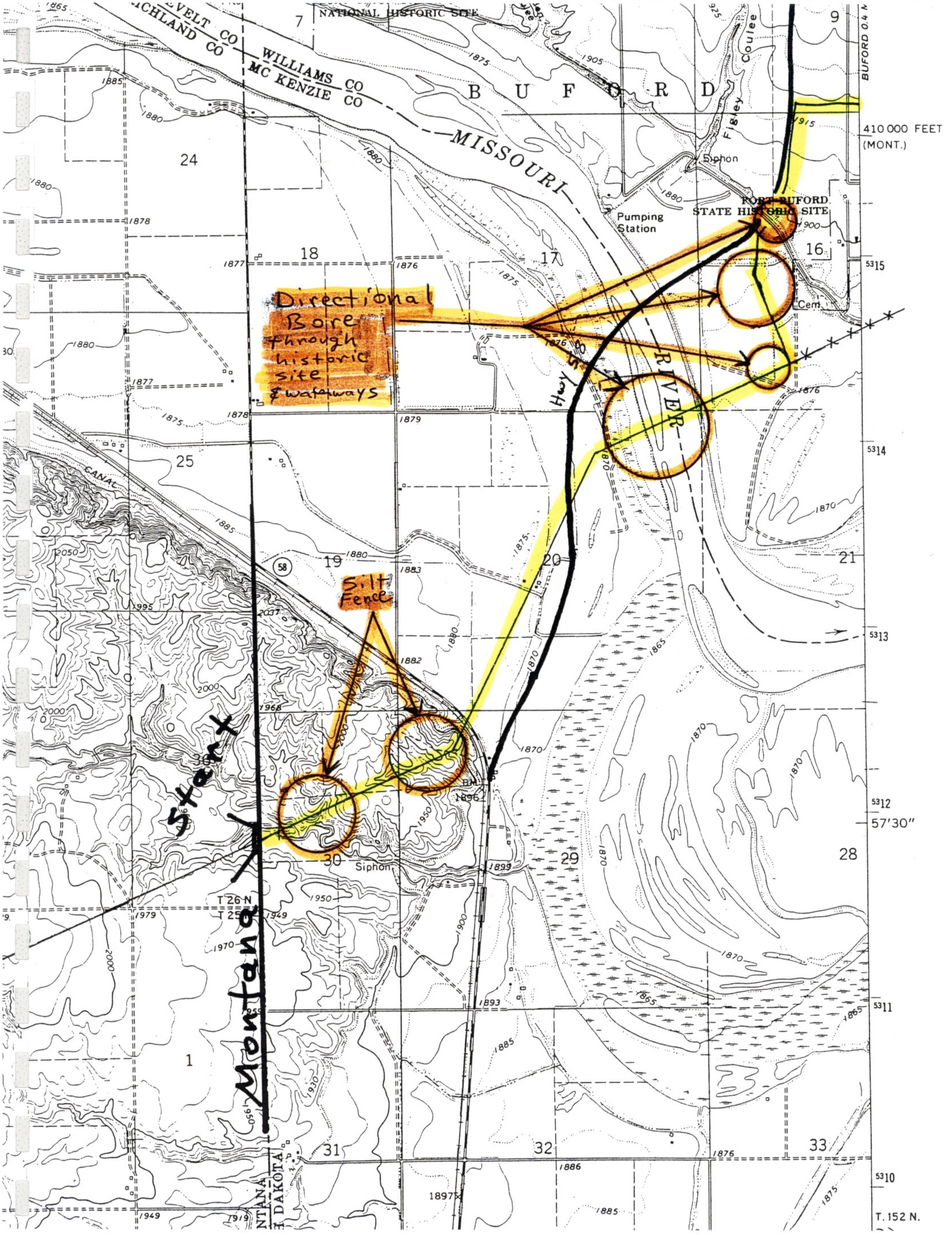
Stormwater controls have been modified slightly from the original application. Please use the attached maps as the final presentation of what is proposed for stormwater erosion control.

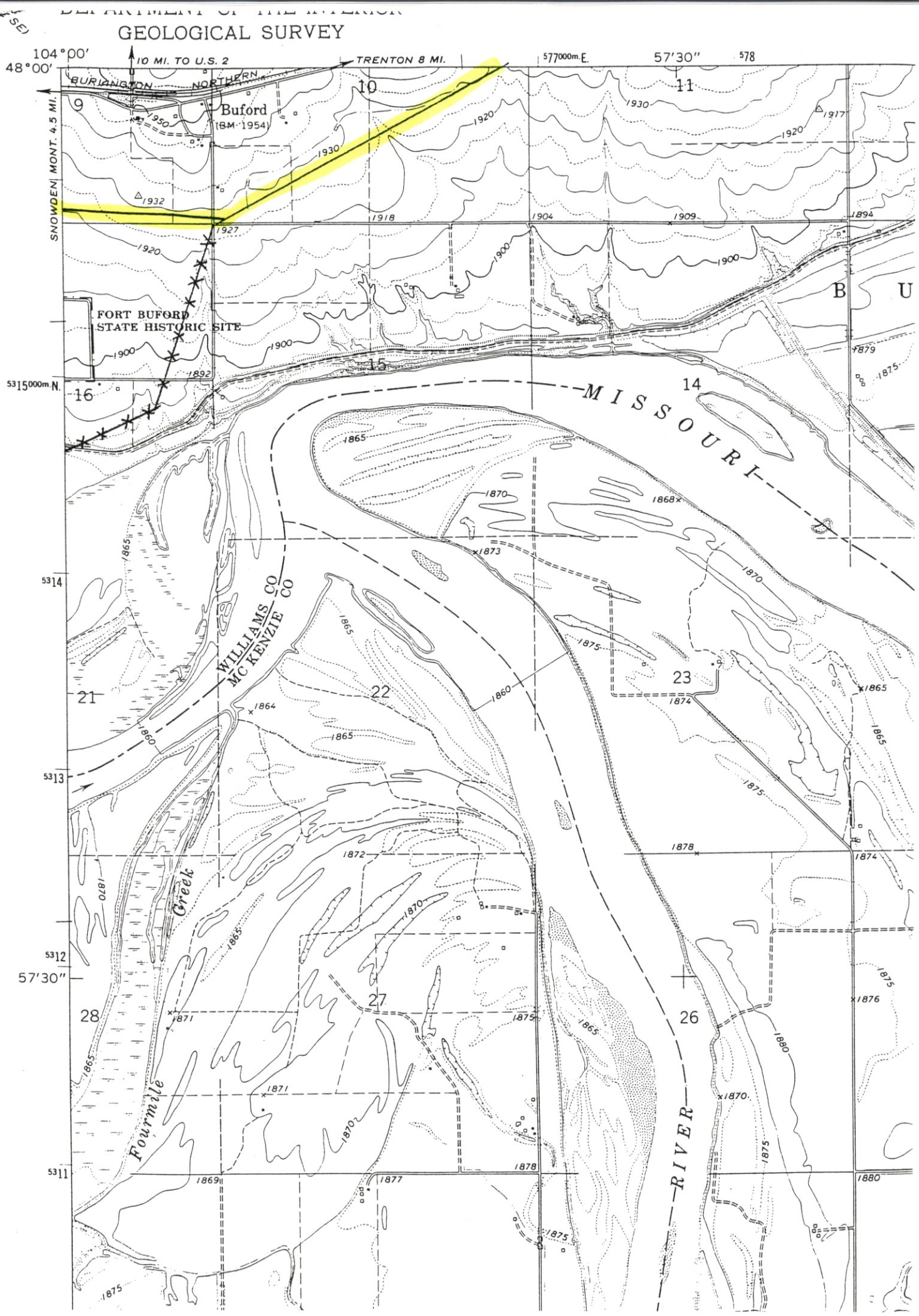
Please authorize the items requested in this letter. I can be reached at (701) 575-4254 ext. 34 to answer any questions you may have.

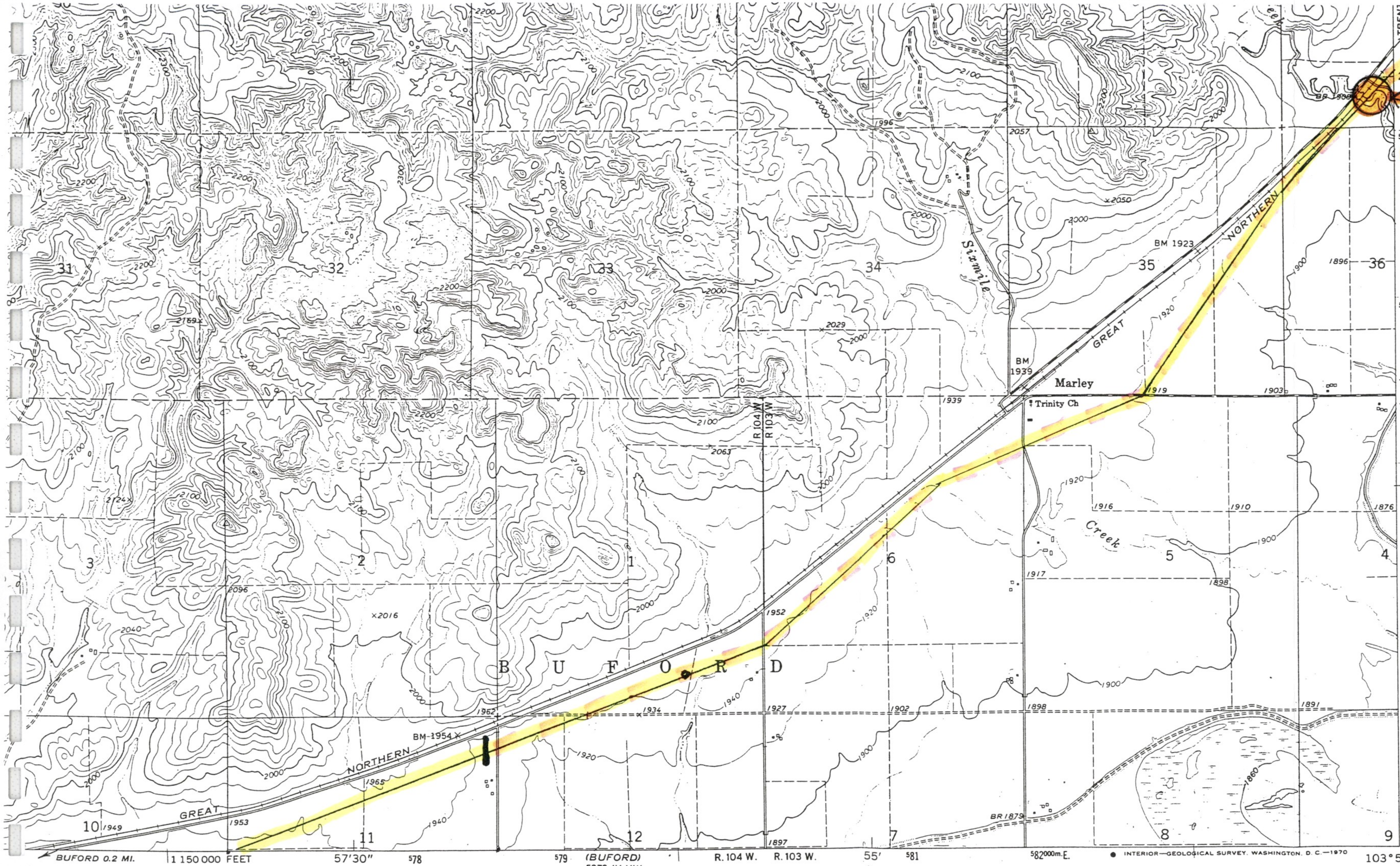
Respectfully,

Daniel Holli

Daniel Holli
Environmental and Regulatory Compliance Specialist


NATIONAL HISTORIC SITE
RICHLAND CO
WILLIAMS CO
MC KENZIE CO
B U F O R D
MISSOURI
RIVER
Fisley Coulee
Siphon
Pumping Station
FORT BUFORD STATE HISTORIC SITE
Cem.
410 000 FEET (MONT.)
BUFORD 0.4 M
Directional Bore through historic site & waterways
Hwy
Silt Fence
Start
Montana
CANAL
Siphon
T 26 N
T 25 N
MONTANA
N DAKOTA
57'30"
T. 152 N.


DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
104°00'
48°00'
10 MI. TO U.S. 2
TRENTON 8 MI.
577000m.E.
57'30"
578
BURLINGTON NORTHERN
Buford
(BM 1954)
SNOWDEN MONT. 4.5 MI.
FORT BUFORD
STATE HISTORIC SITE
5315000m.N.
MISSOURI
WILLIAMS CO
MC KENZIE CO
Fourmile Creek
RIVER
5314
5313
5312
57'30"
5311



R-1
ND

d by the Geological Survey
t Interior program
issouri River Basin

hods from aerial
cked 1968

th American datum
kota coordinate system, north zone
ercator grid ticks,

lected fence and field lines where
hs. This information is unchecked

UTM GRID AND 1968 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

GN MN
0°47'
14 MILS
15°
267 MILS

SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242
AND BY THE STATE WATER COMMISSION, BISMARCK, NORTH DAKOTA 58501
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

NORTH DAKOTA
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Secondary highway, all weather, hard surface

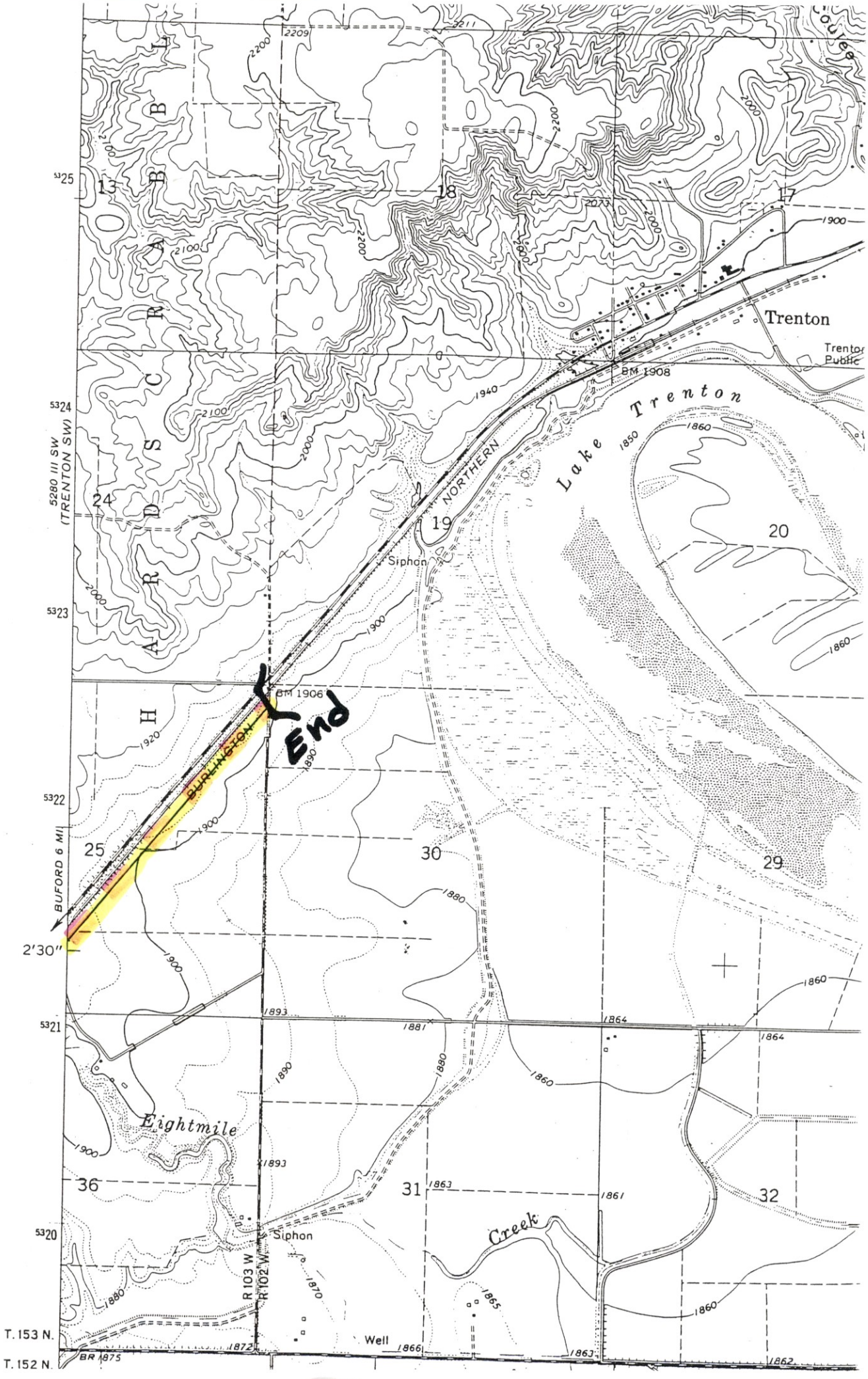
Light-duty road, all weather, improved surface

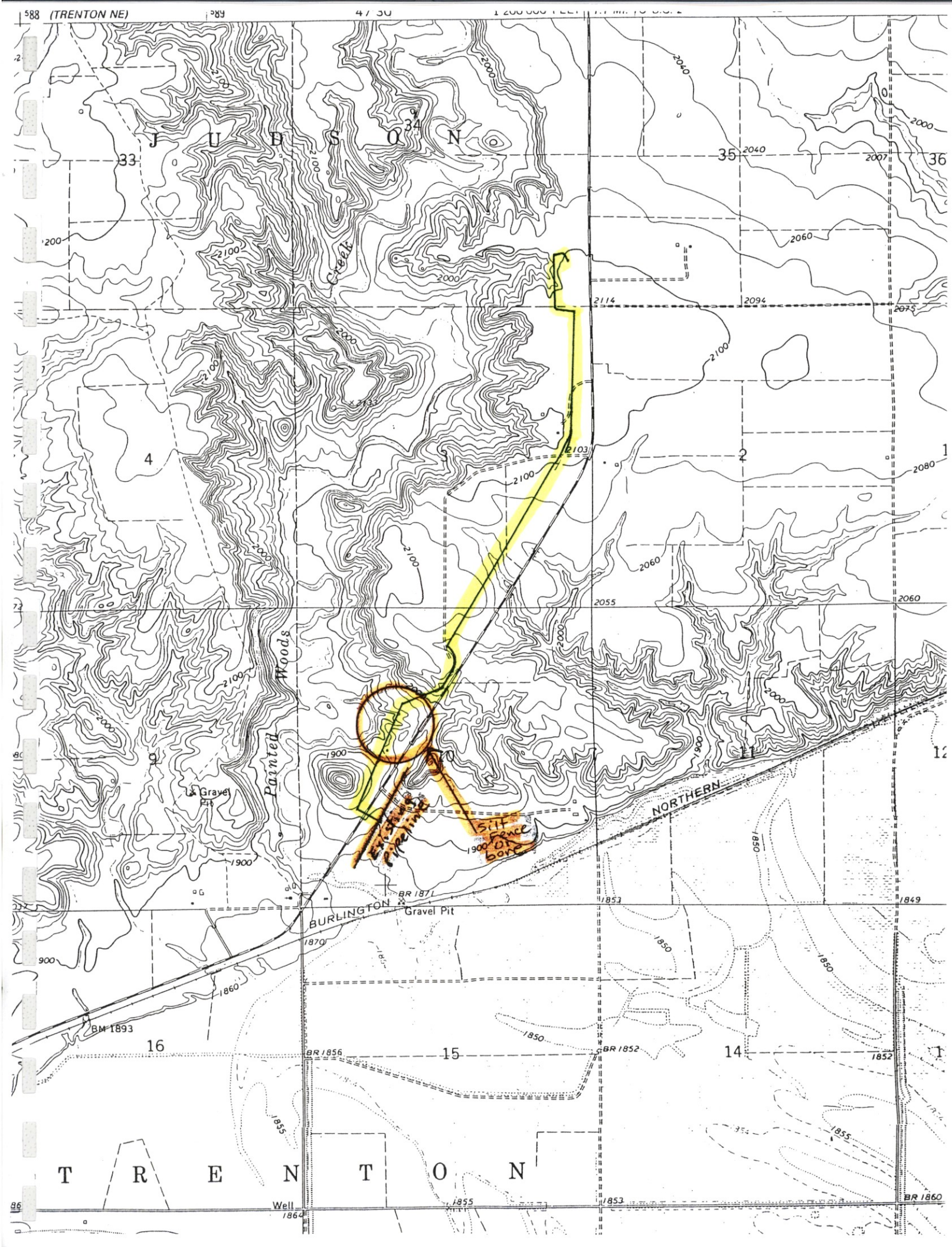
Unimproved road, fair or dry weather

TRENTON SW, N. DAK.
N4800—W10352.5/7.5

1968

AMS 5280 III SW—SERIES V871


Trenton
Lake Trenton
NORTHERN
Siphon
BM 1908
BM 1906
End
BURLINGTON
BUFORD 6 MI
5280 III SW
(TRENTON SW)
Eightmile
Creek
Siphon
Well
R 103 W
R 102 W
T. 153 N.
T. 152 N.
13
18
17
24
19
20
25
30
29
36
31
32
2'30"


(TRENTON NE)
JUDSON
TRENTON
Painted Woods Creek
Gravel Pit
BURLINGTON NORTHERN
Gravel Pit
BM 1893
BR 1871
BR 1856
BR 1852
BR 1860
Well
Existing pipeline
Silt fence at bore

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
NORTH DAKOTA REGULATORY OFFICE
1513 S. 12TH STREET
BISMARCK, NORTH DAKOTA 58504-6640

June 6, 2005

REPLY TO
ATTENTION OF:
North Dakota Regulatory Office

DA Letter of Permission
No. 200560121

Mr. Daniel Holli
Plains Pipeline, L.P.
PO Box 708
Belfield, North Dakota 58622

Dear Mr. Holli:

1. Project Authorization. Referring to your Department of the Army application, this Letter of Permission, recommended by the Chief of Engineers, under the provisions of Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 U.S.C. 403) authorizes the placement of a 10-inch diameter steel pipeline through the Missouri River, for the purpose of transporting crude oil. The pipeline will be directionally bored under the waterway. No work will occur within the waterway. There will be no discharge of dredged or fill material into the waterway associated with this project. It is also the Corps understanding that there would be no destruction of trees or shrubs associated with this pipeline crossing. This Department of the Army authorization is in accordance with the enclosed drawings and subject to the enclosed conditions.

If your pipeline project is not completed on or before **June 6, 2006**, this Letter of Permission if not previously revoked or specifically extended, shall cease and be null and void.

2. Project Location. This project is located in the Missouri River, in the NE ¼ of Section 20, and the SW¼ of Section 16, Township 152 North, Range 104 West, McKenzie and Williams Counties, North Dakota.

3. Other Authorizations. Although an Individual Department of the Army permit will not be required for this project, this does not eliminate the requirement that you obtain any other applicable Federal, State, Tribal and local permits as required. **Please note any deviations from the original plans and specifications of this project could require additional authorization from this office.**

4. Responsibility. Plains Pipeline is responsible for all work accomplished in accordance with the terms and conditions of this authorization. If a contractor or other authorized representative will be accomplishing the work authorized by this permit on behalf of Plains Pipeline, they shall be provided a copy of this letter and attached conditions so they are aware of the requirements of this permit. Failure to comply with all of the terms and conditions of this authorization may result in an enforcement action.

5. Other Special Conditions.

Endangered Species

That the permittee shall report any threatened or endangered species at the project site. Notification shall be made to the North Dakota Regulatory Office by telephone or fax within 24 hours. Written confirmation shall be provided within 48 hours if deemed necessary by the North Dakota Regulatory Office.

Cultural Resources

The permittee and/or the permittee's contractor, or any of the employees, subcontractors or other persons working in the performance of a contract or contract(s) to complete the work authorized herein, shall cease work immediately and report the discovery of any previously unknown historic or archeological remains to the North Dakota Regulatory Office and the State Historical Society within 24 hours of the discovery. The North Dakota Regulatory Office will initiate the Federal and State coordination as required. Work shall not resume until notified by the North Dakota Regulatory Office.

Hazards to Navigation

That when the District Engineer has been notified that this project is adversely affecting navigation or the public's right to utilize the waterway, and the District Engineer subsequently directs remedial measures, the permittee will comply with such directions as may be received to suspend or modify the project to the extent necessary to mitigate or eliminate the adverse effect as required.

6. Notice of Applicant Options. Also included is a Notification of Applicant Options (NAO), which explains the options available to you in your evaluation of the enclosed permit. The Final Rule Establishing and Administrative Appeal Process for the Regulatory Program of the Corps of Engineers was issued in the Federal Register on March 9, 1999 and became effective August 6, 1999. General conditions "a" through "s" are not appealable.

7. Points-of-Contact. If you have any questions concerning this determination, please contact Jason Renschler of this office at (701) 255-0015 or at the letterhead address and reference project number **200560121**.

BY THE AUTHORITY OF THE SECRETARY OF THE ARMY:

Jeffery A. Bedey
Colonel, Corps of Engineers
District Engineer

Daniel E. Cimarosti

Daniel E. Cimarosti
Regulatory Program Manager
North Dakota Regulatory Office

Enclosures

DA Letter of Permission
Project #200560121
Plains Pipeline, L.P.
Install 10-inch Diameter Pipeline
Missouri River mile ±1581

I. General Conditions

a. That all activities identified and authorized herein shall be consistent with the terms and conditions of this permit; and that any activities not specifically identified and authorized herein shall constitute a violation of the terms and conditions of this permit which may result in the modification, suspension, or revocation of this permit, in whole or in part, as set forth more specifically in General Condition j or k hereto, and in the institution of such legal proceedings as the United States Government may consider appropriate, whether or not this permit has been previously modified, suspended, or revoked in whole or in part.

b. That the permittee agrees to make every reasonable effort to prosecute the construction or work authorized herein in a manner so as to minimize any adverse impact of the construction or work on fish, wildlife, and natural environmental values.

c. That the permittee agrees that it will prosecute the construction of work authorized herein in a manner so as to minimize any degradation of water quality.

d. That the permittee shall permit the District Engineer or his authorized representative(s) or designee(s) to make periodic inspections at any time deemed necessary in order to assure that the activity being performed under the authority of this permit is in accordance with the terms and conditions prescribed herein.

e. That the permittee shall maintain the structure or work authorized herein in good condition and in accordance with the plans and drawings attached hereto.

f. That this permit does not convey any property rights, either in real estate or material, or any exclusive privileges, and that it does not authorize any injury to property or invasion of rights or any infringement of Federal, State or local laws, or regulations nor does it obviate the requirement to obtain State or local assent required by law for the activity authorized herein.

g. That this permit does not authorize the interference with any existing or proposed Federal project and that the permittee shall not be entitled to compensation for damage or injury to the structures or work authorized herein which may be caused by or result from existing or future operations undertaken by the United States in the public interest.

h. That in issuing this permit, the Government has relied on the information and data, which the permittee has provided in connection with his permit application. If, subsequent to the issuance of this permit, such information and data prove to be false, incomplete or inaccurate, this permit may be modified, suspended, or revoked, in whole or in part, and/or the Government may, in addition, institute appropriate legal proceedings.

i. That this permit may be summarily suspended, in whole or in part, upon a finding by the District Engineer that immediate suspension of the activity authorized herein would be in the general public interest. Such suspension shall be effective upon receipt by the permittee of a written notice thereof which shall indicate (1) the extent of the suspension; (2) the reasons for this action; and (3) any corrective or preventative measures to be taken by the permittee which are deemed necessary by the District Engineer to abate imminent hazards to the general public interest. The permittee shall take immediate action to comply with the provisions of this notice. Within 10 days following receipt of this notice of suspension, the permittee may request a hearing in order to present information relevant to a decision as to whether his permit should be reinstated, modified or revoked. If a hearing is requested, it shall be conducted pursuant to procedures by the Chief of Engineers. After completion of the hearing, or within a reasonable time after issuance of the suspension notice to permittee if no hearing is requested, the permit will be either reinstated, modified or revoked.

j. That any modification, suspension, or revocation of this permit shall not be the basis for any claim for damages against the United States.

k. That no attempt shall be made by the permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the activity authorized by this permit.

l. That if the display of lights and signals on any structure or work authorized herein is not otherwise provided for by law, such lights and signals as may be prescribed by the United States Coast Guard shall be installed and maintained by and at the expense of the permittee.

m. That this permit does not authorize or approve the construction of particular structures, the authorization or approval of which may require authorization by the Congress or other agencies of the Federal Government.

n. That if and when the permittee desires to abandon the activity authorized herein, unless such abandonment is part of a transfer procedure by which the permittee is transferring his interests herein to a third party pursuant to General Condition "p" herein, he must restore the area to a condition satisfactory to the District Engineer.

o. That if the recording of this permit is possible under applicable State or local law, the permittee shall take such action as may be necessary to record this permit with the Register of Deeds or other appropriate official charged with the responsibility for maintaining records of title to and interests in real property.

p. That this permit may not be transferred to a third party without prior written notice to the District Engineer by the transferee's written agreement to comply with all terms and conditions of this permit. In addition, if the permittee transfers the interests authorized herein by conveyance of realty, the deed shall reference this permit and the terms and conditions specified herein and this permit shall be recorded along with the deed with the Register of Deeds or other appropriate official.

q. That there shall be no unreasonable interference with navigation by the existence or use of the activity authorized herein.

r. That the permittee shall notify the District Engineer at what time the activity authorized herein will be commenced, as far in advance of the time of commencement as the District Engineer may specify, and of any suspension of work, if for a period of more than one week, resumption of work and its completion.

s. That the permittee understands and agrees that, if future operations by the United States requires the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

II. Special Conditions

Navigational Conditions

1. There shall be no unreasonable interference with navigation by the existence or use of the activity authorized herein.

2. No attempt shall be made by the permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the activity authorized by this permit.

Environmental Conditions

3. That the Army Corps of Engineers shall be notified, in writing, and through verbal communications of any changes in the project. No changes impacting the waterway shall be undertaken without prior Corps authorization.

4. That the clearing of vegetation will be limited to that which is absolutely necessary for construction of the project.

5. The clearing of vegetation will be limited to that which is absolutely necessary for construction of the project. If any trees or shrubs need to be removed or cut, the permittee shall contact the Corps prior to such action in order to discuss the development of an appropriate riparian mitigation plan. If required, the woody mitigation plan shall be completed prior to or concurrent with project construction.

6. That all areas disturbed by the construction activity will be seeded with vegetation indigenous to the area for protection against subsequent erosion.

7. All earthwork operations on shore will be carried out in such a manner that sediment runoff and soil erosion to the river are controlled.

8. That all construction debris will be disposed of on land in such a manner that it cannot enter a waterway.

9. That the permittee will establish and carry out a program for immediate removal of debris during construction in order to prevent the accumulation of unsightly, deleterious and/or potentially polluted materials.

10. That equipment for handling and conveying materials during construction shall be operated to prevent dumping or spilling the materials into the waterway.

11. That steps will be taken to prevent materials spilled or stored on shore from washing into the water as a result of cleanup activities, natural runoff, or flooding, and that, during construction, any materials, which are accidentally spilled into the water, will be retrieved.

12. Any disruption or displacement of the streambed or bank line shall be restored to pre-project conditions.

13. That representatives from the Corps of Engineers must be allowed to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of this permit.

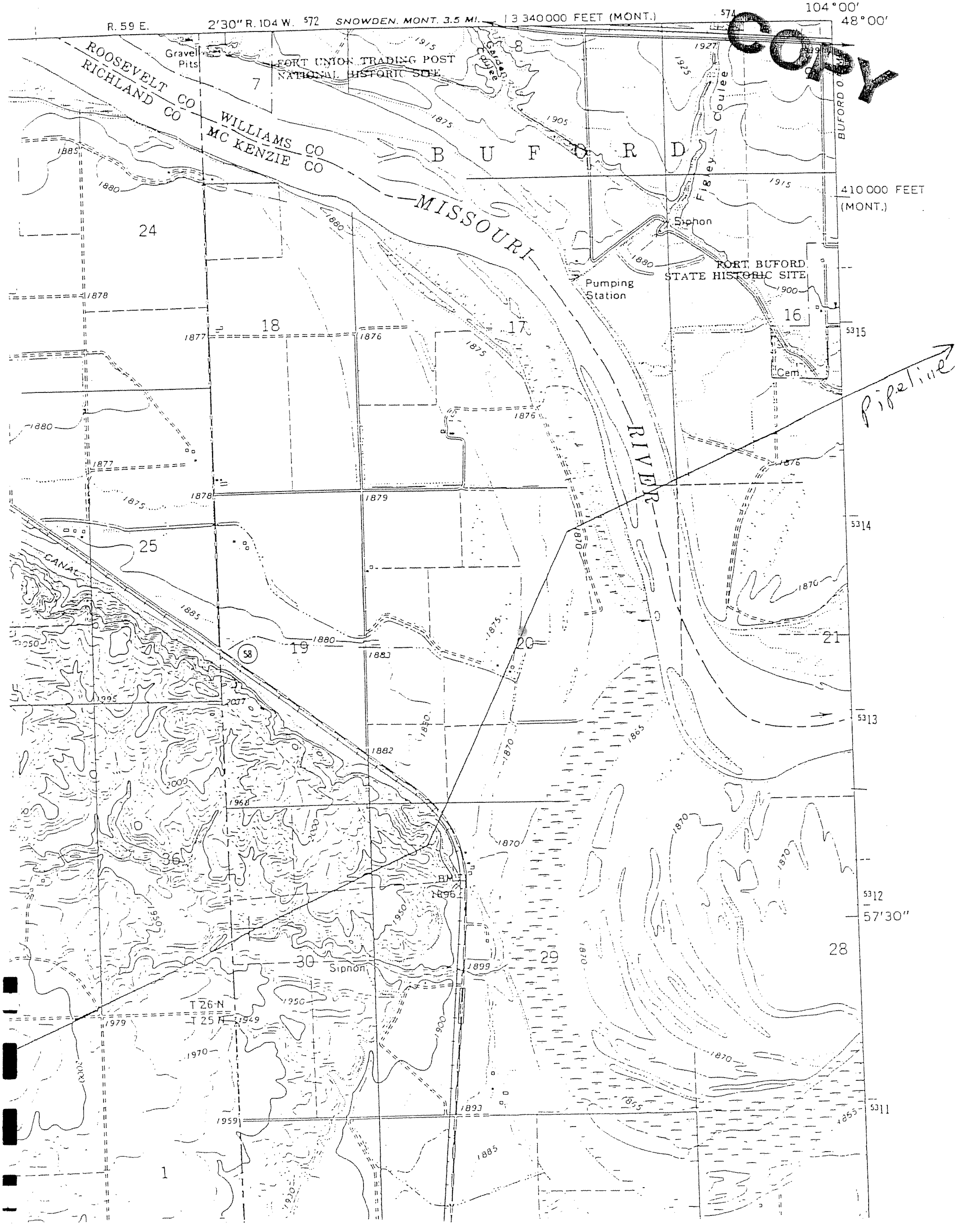
14. Any construction activities located in the waterway shall be timed to avoid the fish-spawning period of April 15 to June 1.

15. The permittee and the permittee's contractor, or any of the employees, subcontractors or other persons working in the performance of the contract, shall immediately cease work and report the discovery of subsurface features to the State Historical Society and the Corps. Work shall not resume until notified by Corps.

16. That the permittee, upon receipt of a notice of revocation of this Letter of Permission or upon its expiration before completion of the authorized structure or work, shall, without expense to the United States and in such time and manner as the Secretary of the Army or his authorized representative may direct, restore the waterway to its former conditions. If the permittee fails to comply with the direction of the Secretary of the Army or his authorized representative, the Secretary or his designee may restore the waterway to its former condition, by contract or otherwise, and recover the cost thereof from the permittee.

17. The United States shall not be responsible for damage to property or injuries to persons which may arise from or be incident to the work herein authorized, and the permittee shall hold the United States harmless from any and all such claims, except to the extent that the damage or injury is caused solely by the negligence of the United States.

MONTANA—NORTH DAKOTA
7.5 MINUTE SERIES (TOPOGRAPHIC)


R. 59 E.
2'30" R. 104 W.
572
SNOWDEN, MONT. 3.5 MI.
13 340 000 FEET (MONT.)
574
104°00'
48°00'
COPY
Gravel Pits
FORT UNION TRADING POST NATIONAL HISTORIC SITE
ROOSEVELT CO
RICHLAND CO
WILLIAMS CO
MC KENZIE CO
BUFORD
MISSOURI
RIVER
Garden Coulee
Coulee
Figley
Siphon
410 000 FEET (MONT.)
FORT BUFORD STATE HISTORIC SITE
Pumping Station
Cem
Pipeline
CANAL
58
T 26 N
T 25 N
Siphon
BM 1896
5315
5314
5313
5312
57'30"
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8

United States Department of the Interior

BUREAU OF RECLAMATION
Dakotas Area Office
P.O. Box 1017
Bismarck, North Dakota 58502

TAKE PRIDE IN AMERICA

DK-400
PRJ-28.00

MAY 11 2005

Mr. Daniel Holli
Environmental and Regulatory
Compliance Specialist
Plains Pipeline, L.P.
P.O. Box 708
Belfield, ND 58622

Subject: Buford-Trenton Irrigation District–Crude Oil Pipeline Canal Crossing

Dear Mr. Holli:

I am responding to your letter of May 3, 2005, regarding the Buford-Trenton Irrigation District crude oil pipeline canal crossing. Thank you for providing the proposed pipeline horizontal alignment and easement documentation for the existing pipeline. The Bureau of Reclamation Resource Management Division has reviewed the proposed canal crossing and determined the construction activities are in compliance with the National Environmental Policy Act.

Please contact this office if there is any deviation from the submitted canal crossing or proposed construction activities.

If you have any questions, please contact me at 701-250-4242 extension 3411.

Sincerely,

Ryan Waters
General Engineer

PLAINS
PIPELINE, L.P.

May 16, 2005

North Dakota Department of Transportation
Mr. Walt Peterson
605 Dakota Parkway W. Box 698
Williston, ND 58802-0698
Bismarck, ND 58505

Dear Mr. Peterson:

Enclosed are permit applications to cross Highway 1804 and to parallel Highways 58 and 1804 in two locations.

Please cancel Utility permit No. 7-1804-329.2273. This crossing will not be constructed.

If you have any additional questions or comments, I can be reached at (701) 575-4254 ext. 34.

Respectfully,

Daniel C Holli

Daniel Holli
Environmental and Regulatory Compliance Specialist

UTILITY OCCUPANCY APPLICATION AND PERMIT

North Dakota Department of Transportation, Design Division
SFN 7995 (Rev. 05-2004)

Document No. _____ (FOR STATE USE ONLY) Permit No. _____

APPLICANT INFORMATION

Owner of Facility	City	State	Zip Code
Plains Pipeline L.P.	Belfield	ND	58622
Mailing Address			Telephone Number
P.O. Box 708			701-575-4254
Owner's Agent	City	State	Zip Code / Telephone Number
Owner's Contractor	City	State	Telephone Number

LOCATION NO. 1 (FOR STATE USE ONLY) Begin Ref. Point _____ End Ref. Point _____

Highway No. 58 ☒ Along or ☐ Across Lanes of traffic ☒ 2 ☐ 4

Direction ☐ N ☒ S ☐ E ☐ W Begin 1013' feet from reference marker N of #9

Direction ☒ N ☐ S ☐ E ☐ W End 2036' feet from reference marker N of #9

☐ N ☒ S ☐ E ☐ W from city of Trenton or 0.75 miles from junction highway 1804

TYPE OF FACILITY (Complete appropriate spaces only.)

Description of Proposed Facility
Construct 10 inch pipeline along east side of Hwy 58 to avoid impacting the Fort Buford Historic Site.

Size of Facility	Number of Cables	Length of Down Guys
10 inch diametrer steel pipeline		
Pipeline Pressure	Size of Casing	Length of Casing
1440 MAOP Psi	none	N/A
Location of Pole(s)	Location of Appurtenances	Location - Others

TERMS AND CONDITIONS: Installation and maintenance of said facilities on highway right of way shall be subject to the North Dakota Department of Transportation's (NDDOT's) *"A Policy for Accommodation of Utilities on State Highway Right of Way"*, current edition, and the following terms and conditions, attached hereto and made a part hereof.

(A) Installation/maintenance of said facilities shall be done in a manner satisfactory to the NDDOT district engineer,
(B) Owner shall notify the NDDOT district engineer forty-eight (48) hours prior to installing, maintaining, relocating, or removing said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the NDDOT district engineer.
(C) The Risk Management Appendix, attached, is hereby incorporated and made a part of this agreement.
(D) Owner shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way, which may be damaged as a result of the installation and maintenance of said facilities on highway right of way.
(E) Owner shall promptly remove said facilities from highway right of way, or shall relocate or adjust said facilities, at its sole cost and expense when requested to do so by NDDOT.
(F) NDDOT specifically reserves the right to revoke, or change the terms and conditions of, this Permit with or without cause and upon notice to the Owner.
(G) The installation shall be completed on or before August 30, 20 05

May 16, 2005
DATE

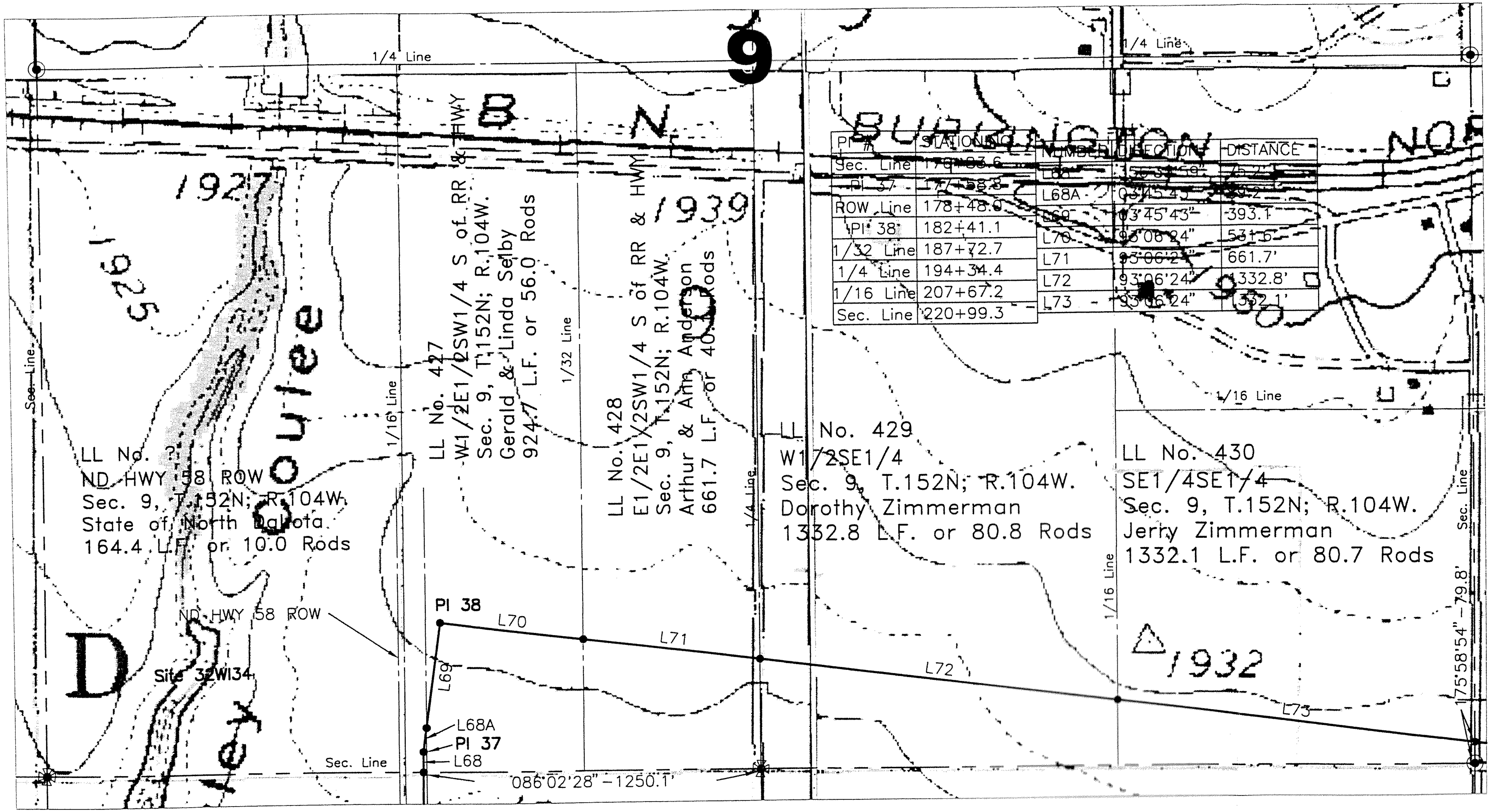
Daniel Holbi Envr. Spec.
OWNER'S SIGNATURE

The Owner is hereby granted permission to install and maintain the facilities applied for, as shown on the plans attached hereto and made a part hereof.
Approved by NDDOT this _____ day of _____, 20____.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

_____
DISTRICT ENGINEER (TYPE OR PRINT)

_____
SIGNATURE



PI #	STATIONING
Sec. Line	17[illegible]+83.6
PI 37	177+58.8
ROW Line	178+48.0
PI 38	182+41.1
1/32 Line	187+72.7
1/4 Line	194+34.4
1/16 Line	207+67.2
Sec. Line	220+99.3

NUMBER	DIRECTION	DISTANCE
L68	[illegible]	75.2'
L68A	03°45'45"	[illegible]
L69	03°45'43"	393.1'
L70	93°06'24"	531.6'
L71	93°06'24"	661.7'
L72	93°06'24"	1332.8'
L73	93°06'24"	1332.1'

N

P I 37 = 1013' North of MM #9 on Hwy 58

P I 38 = 2036' North of MM #9

NOTE:
Survey is based on Montana State Plane System, NAD83 (96), U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance.

Archeological site

200' 0 200' 400'
scale 1" = 400' feet

◉ DENOTES IRON MONUMENT FOUND
■ DENOTES ORIGINAL STONE FOUND
DENOTES IRON REBAR w/CAP SET – #3592 LS

Rev'd. 05/06/2005

Plains Marketing
Trenton Expansion
Williams County, ND

SHEET NO. P-17

Kadrmas Lee & Jackson
Engineers, Surveyors and Planners

10" Crude Line
Right-of-Way Plat
PHASE III

PROJECT NO. 3704155
DATE 04/12/2005

UTILITY OCCUPANCY APPLICATION AND PERMIT

North Dakota Department of Transportation, Design Division
SFN 7995 (Rev. 05-2004)

Document No. _____ (FOR STATE USE ONLY) Permit No. _____

APPLICANT INFORMATION

Owner of Facility	City	State	Zip Code
Plains Pipeline L.P.	Belfield	ND	58622
Mailing Address			**Telephone Number**
P.O. Box 708			701-575-4254
Owner's Agent	**City**	**State**	**Zip Code** / **Telephone Number**
Owner's Contractor	**City**	**State**	**Telephone Number**

LOCATION NO. 1 (FOR STATE USE ONLY) Begin Ref. Point _____ End Ref. Point _____

Highway No. 1804 ☐ Along or ☒ Across Lanes of traffic ☒ 2 ☐ 4

Direction ☐ N ☐ S ☒ E ☐ W Begin 537' feet from reference marker N of #329

Direction ☐ N ☐ S ☐ E ☒ W End 537' feet from reference marker N of #329

☒ N ☐ S ☐ E ☐ W from city of Trenton or 2 miles from junction highway 3

TYPE OF FACILITY (Complete appropriate spaces only.)

Description of Proposed Facility
Construct 10 inch pipeline across 1804 and along west side of Hwy 58 to avoid impacting the Historic Sites.

Size of Facility	Number of Cables	Length of Down Guys
10 inch diametrer steel pipeline		
Pipeline Pressure	**Size of Casing**	**Length of Casing**
1440 MAOP Psi	none	N/A
Location of Pole(s)	**Location of Appurtenances**	**Location - Others**

TERMS AND CONDITIONS: Installation and maintenance of said facilities on highway right of way shall be subject to the North Dakota Department of Transportation's (NDDOT's) "*A Policy for Accommodation of Utilities on State Highway Right of Way*", current edition, and the following terms and conditions, attached hereto and made a part hereof.

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(B) Owner shall notify the NDDOT district engineer forty-eight (48) hours prior to installing, maintaining, relocating, or removing said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the NDDOT district engineer.
(C) The Risk Management Appendix, attached, is hereby incorporated and made a part of this agreement.
(D) Owner shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way, which may be damaged as a result of the installation and maintenance of said facilities on highway right of way.
(E) Owner shall promptly remove said facilities from highway right of way, or shall relocate or adjust said facilities, at its sole cost and expense when requested to do so by NDDOT.
(F) NDDOT specifically reserves the right to revoke, or change the terms and conditions of, this Permit with or without cause and upon notice to the Owner.
(G) The installation shall be completed on or before August 30, 20 05

May 16, 2005
DATE

Daniel Halli Envr. Spec.
OWNER'S SIGNATURE

The Owner is hereby granted permission to install and maintain the facilities applied for, as shown on the plans attached hereto and made a part hereof.
Approved by NDDOT this _____ day of _____, 20____.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

_____
DISTRICT ENGINEER (TYPE OR PRINT)

_____
SIGNATURE

LOCATION NO. ______ (FOR STATE USE ONLY) Begin Ref. Point ______________ End Ref. Point ______________

Highway No. 1804 [X] Along or [ ] Across Lanes of traffic [X] 2 [ ] 4
Direction [ ] N [X] S [ ] E [ ] W Begin 2137' feet from reference marker S of 328
Direction [X] N [ ] S [ ] E [ ] W End 1787' feet from reference marker S of 328
[X] N [ ] S [ ] E [ ] W from city of Trenton or 2 miles from junction highway 2

LOCATION NO. ______ (FOR STATE USE ONLY) Begin Ref. Point ______________ End Ref. Point ______________

Highway No. ______ [ ] Along or [ ] Across Lanes of traffic [ ] 2 [ ] 4
Direction [ ] N [ ] S [ ] E [ ] W Begin ________ feet from reference marker ________
Direction [ ] N [ ] S [ ] E [ ] W End ________ feet from reference marker ________
[ ] N [ ] S [ ] E [ ] W from city of ______________ or ______ miles from junction highway ______

LOCATION NO. ______ (FOR STATE USE ONLY) Begin Ref. Point ______________ End Ref. Point ______________

Highway No. ______ [ ] Along or [ ] Across Lanes of traffic [ ] 2 [ ] 4
Direction [ ] N [ ] S [ ] E [ ] W Begin ________ feet from reference marker ________
Direction [ ] N [ ] S [ ] E [ ] W End ________ feet from reference marker ________
[ ] N [ ] S [ ] E [ ] W from city of ______________ or ______ miles from junction highway ______

LOCATION NO. ______ (FOR STATE USE ONLY) Begin Ref. Point ______________ End Ref. Point ______________

Highway No. ______ [ ] Along or [ ] Across Lanes of traffic [ ] 2 [ ] 4
Direction [ ] N [ ] S [ ] E [ ] W Begin ________ feet from reference marker ________
Direction [ ] N [ ] S [ ] E [ ] W End ________ feet from reference marker ________
[ ] N [ ] S [ ] E [ ] W from city of ______________ or ______ miles from junction highway ______

LOCATION NO. ______ (FOR STATE USE ONLY) Begin Ref. Point ______________ End Ref. Point ______________

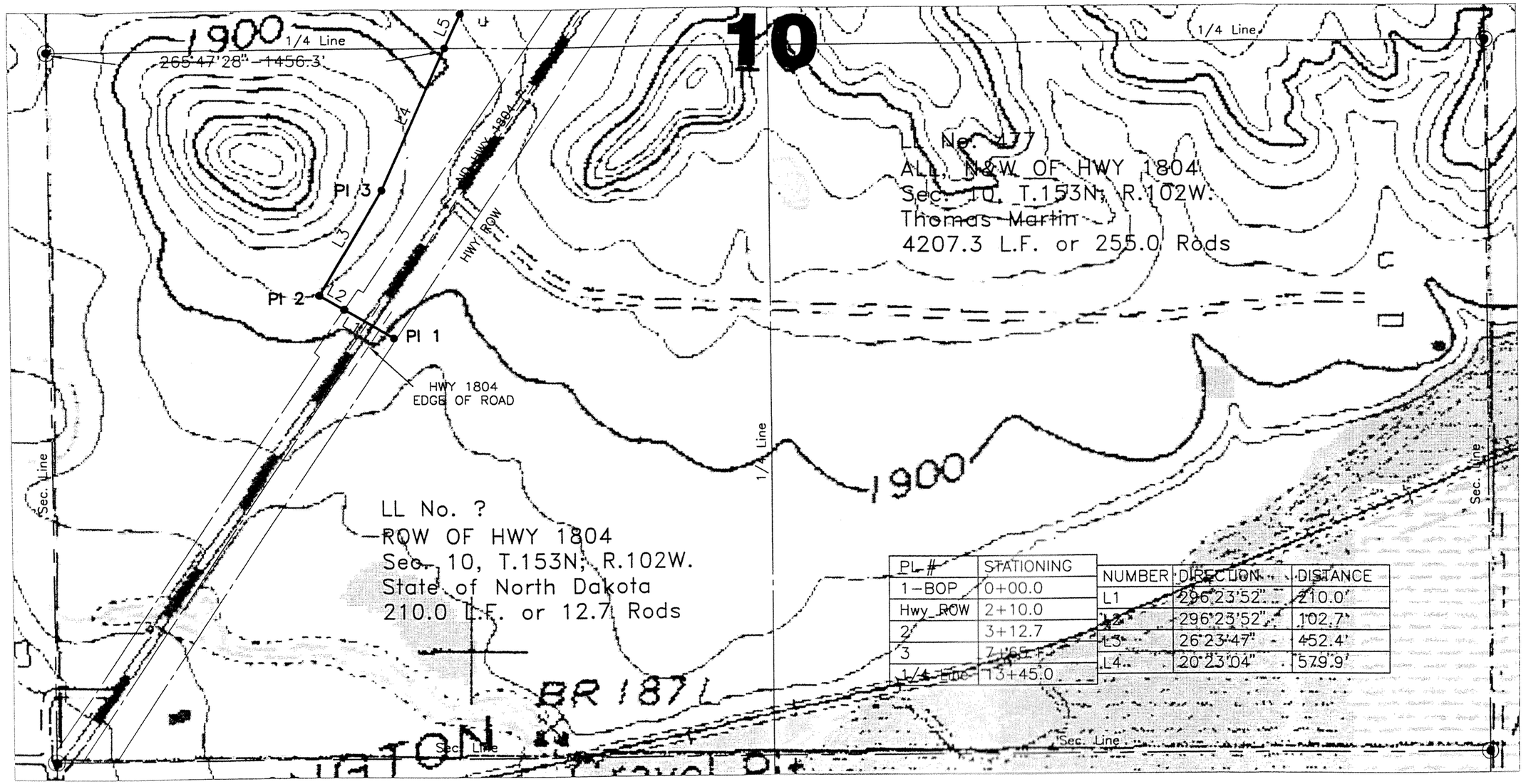
Highway No. ______ [ ] Along or [ ] Across Lanes of traffic [ ] 2 [ ] 4
Direction [ ] N [ ] S [ ] E [ ] W Begin ________ feet from reference marker ________
Direction [ ] N [ ] S [ ] E [ ] W End ________ feet from reference marker ________
[ ] N [ ] S [ ] E [ ] W from city of ______________ or ______ miles from junction highway ______

LOCATION NO. ______ (FOR STATE USE ONLY) Begin Ref. Point ______________ End Ref. Point ______________

Highway No. ______ [ ] Along or [ ] Across Lanes of traffic [ ] 2 [ ] 4
Direction [ ] N [ ] S [ ] E [ ] W Begin ________ feet from reference marker ________
Direction [ ] N [ ] S [ ] E [ ] W End ________ feet from reference marker ________
[ ] N [ ] S [ ] E [ ] W from city of ______________ or ______ miles from junction highway ______

INTERSTATE HIGHWAYS - Applicant's description of the proposed method of ingress and egress to and from interstate right of way, as attached to the plan.

10



PI #	STATIONING
1-BOP	0+00.0
Hwy_ROW	2+10.0
2	3+12.7
3	7+65.1
1/4 Line	13+45.0

NUMBER	DIRECTION	DISTANCE
L1	296°23'52"	210.0'
L2	296°23'52"	102.7'
L3	26°23'47"	452.4'
L4	20°23'04"	579.9'

NOTE:
Survey is based on Montana State Plane System, NAD83 (96), U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance.

- DENOTES IRON MONUMENT FOUND
- DENOTES ORIGINAL STONE FOUND
- DENOTES IRON REBAR w/CAP SET - #3592 LS

PI 1 = 537' north of mm # 329 on Hwy 1804

PRELIMINARY

200' 0 200' 400'
scale 1"=400' feet

Rev'd. 05/12/2005

Plains Marketing
Trenton Expansion
Williams County, ND.

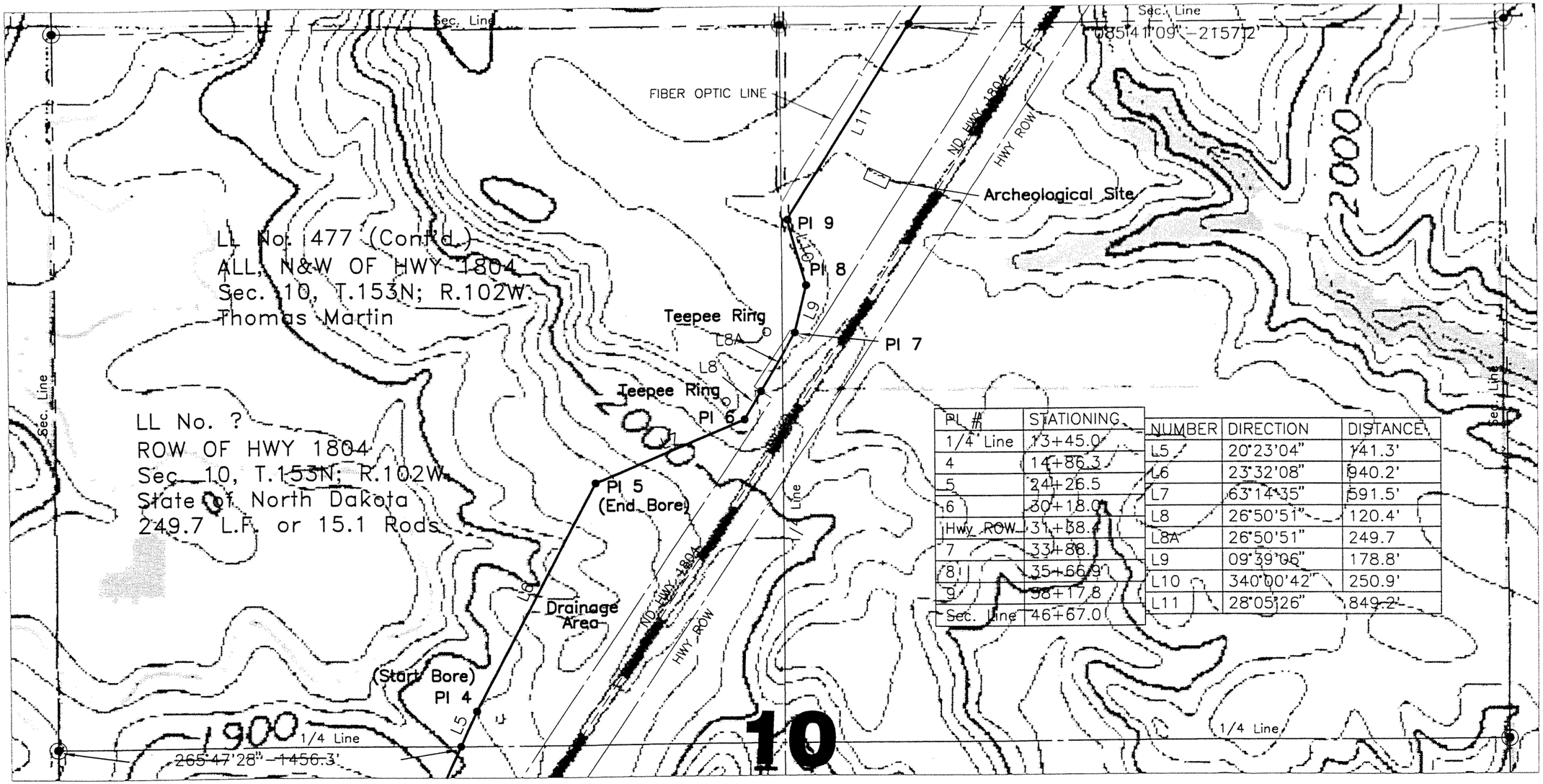
SHEET NO. P-31

Kadrmas Lee & Jackson
Engineers, Surveyors and Planners

10" Crude Line
Right-of-Way Plat
PHASE III

DRWN BY	CHK'D BY	PROJECT NO.	DATE
BPN	CMH	3704155	04/18/2005

J:\oilfield\Plains_Marketing\3704155\CAD\3704155row07.dwg Pipeline_3-31



PI #	STATIONING
1/4 Line	13+45.0
4	14+86.3
5	24+26.5
6	30+18.0
Hwy ROW	31+58.4
7	33+88.1
8	35+66.9
9	38+17.8
Sec. Line	46+67.0

NUMBER	DIRECTION	DISTANCE
L5	20°23'04"	141.3'
L6	23°32'08"	940.2'
L7	63°14'35"	591.5'
L8	26°50'51"	120.4'
L8A	26°50'51"	249.7
L9	09°39'06"	178.8'
L10	340°00'42"	250.9'
L11	28°05'26"	849.2'

NOTE:
Survey is based on Montana State Plane System, NAD83 (96), U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance.

- DENOTES IRON MONUMENT FOUND
- DENOTES ORIGINAL STONE FOUND
- DENOTES IRON REBAR w/CAP SET – #3592 LS

PI 6 = 2137' South of mm # 328 on Hwy 1804
PI 7 = 1787' South of mm # 328 on Hwy 1804

PRELIMINARY

200' 0 200' 400'
scale 1"=400' feet

Rev'd. 05/12/2005

Plains Marketing
Trenton Expansion
Williams County, ND.

SHEET NO. P-32

Kadrmas Lee & Jackson
Engineers, Surveyors and Planners

10" Crude Line
Right-of-Way Plat
PHASE III

DRAWN BY	CHK'D BY	PROJECT NO.	DATE
BPN	CMH	3704155	04/18/2005

J:\oilfield\Plains_Marketing\3704155\CADD\3704155bas07.dwg Pipeline_3-32

TY OCCUPANCY APPLICATION AND PERMIT

Dakota Department of Transportation, Design Division
7995 (Rev. 05-2004)

Document No. 71235 (FOR STATE USE ONLY) Permit No. 7-58-7.7159

APPLICANT INFORMATION

Owner of Facility	City	State	Zip Code
Plains Pipeline, L.P.	Belfield	ND	58622
Mailing Address			Telephone Number
P.O. Box 708			701-575-4254
Owner's Agent	City	State	Zip Code / Telephone Number
Owner's Contractor	City	State	Telephone Number

LOCATION NO. 1 (FOR STATE USE ONLY) Begin Ref. Point 7.7159 End Ref. Point _____

Highway No. 58 ☐ Along or ☒ Across Lanes of traffic ☒ 2 ☐ 4

Direction ☐ N ☐ S ☐ E ☒ W Begin 1500 feet from reference marker 8

Direction ☐ N ☐ S ☒ E ☐ W End 1500 feet from reference marker 8

☐ N ☒ S ☐ E ☐ W from city of Trenton, ND or 2.5 miles from junction highway 1804

TYPE OF FACILITY (Complete appropriate spaces only.)

Description of Proposed Facility

Bore under Hwy ~~52~~ 58 and adjacent unnamed state highway for installation of a 10 inch crude oil pipeline.

Pipe will be installed using a slick bore method.

Size of Facility	Number of Cables	Length of Down Guys
0 inch diameter steel pipeline		
Pipeline Pressure	**Size of Casing**	**Length of Casing**
1440 MAOP Psi	none	N/A
Location of Pole(s)	Location of Appurtenances	Location - Others

TERMS AND CONDITIONS: Installation and maintenance of said facilities on highway right of way shall be subject to the North Dakota Department of Transportation's (NDDOT's) *"A Policy for Accommodation of Utilities on State Highway Right of Way"*, current edition, and the following terms and conditions, attached hereto and made a part hereof.

(A) Installation/maintenance of said facilities shall be done in a manner satisfactory to the NDDOT district engineer,
(B) Owner shall notify the NDDOT district engineer forty-eight (48) hours prior to installing, maintaining, relocating, or removing said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the NDDOT district engineer.
(C) The Risk Management Appendix, attached, is hereby incorporated and made a part of this agreement.
(D) Owner shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way, which may be damaged as a result of the installation and maintenance of said facilities on highway right of way.
(E) Owner shall promptly remove said facilities from highway right of way, or shall relocate or adjust said facilities, at its sole cost and expense when requested to do so by NDDOT.
(F) NDDOT specifically reserves the right to revoke, or change the terms and conditions of, this Permit with or without cause and upon notice to the Owner.
(G) The installation shall be completed on or before August 30, 20 05

March 23, 2005
DATE

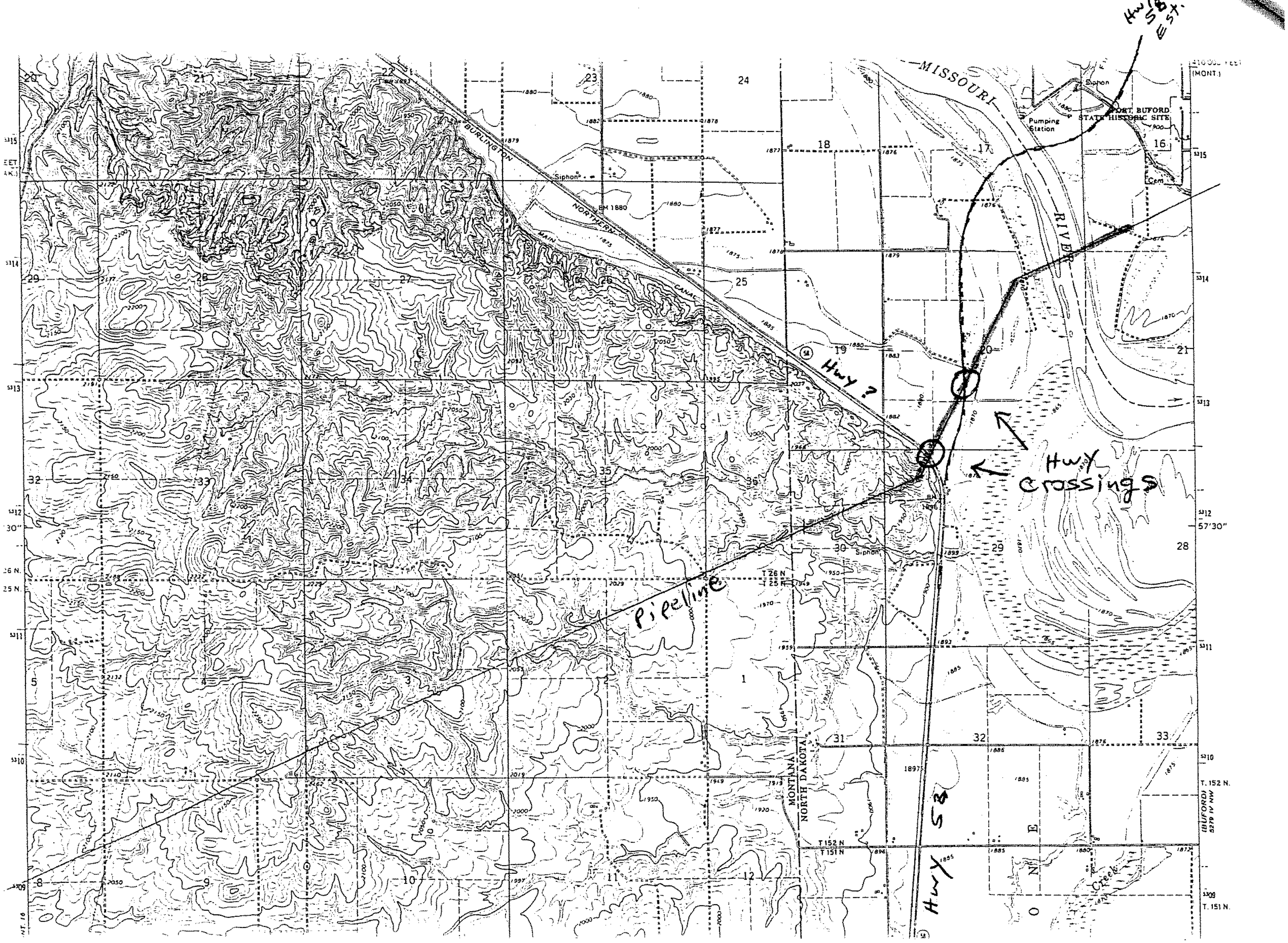
Daniel Holli Env. Spec.
OWNER'S SIGNATURE

The Owner is hereby granted permission to install and maintain the facilities applied for, as shown on the plans attached hereto and made a part hereof.
Approved by NDDOT this 30 day of MARCH, 2005.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

Walter A. Peterson
DISTRICT ENGINEER (TYPE OR PRINT)

Walter A. Peterson
SIGNATURE



MISSOURI
RIVER
FORT BUFORD STATE HISTORIC SITE
Pumping Station
Siphon
BURLINGTON NORTHERN
MAIN CANAL
Hwy 58 Est.
Hwy ?
Hwy Crossings
Pipeline
Hwy 58
MONTANA
NORTH DAKOTA
T. 152 N.
T. 151 N.
Creek

UTILITY OCCUPANCY APPLICATION AND PERMIT

North Dakota Department of Transportation, Design Division
SFN 7995 (Rev. 05-2004)

Document No. 71248 (FOR STATE USE ONLY) Permit No. 7-58-9.1919

APPLICANT INFORMATION

Owner of Facility	City	State	Zip Code
Plains Pipeline L.P.	Belfield	ND	58622
Mailing Address: P.O. Box 708			Telephone Number: 701-575-4254
Owner's Agent	City	State	Zip Code / Telephone Number
Owner's Contractor	City	State	Telephone Number

LOCATION NO. 1 (FOR STATE USE ONLY) Begin Ref. Point 9.1919 End Ref. Point 9.3856

Highway No. 58 ☒ Along or ☐ Across Lanes of traffic ☒ 2 ☐ 4

Direction ☒ N ☒ S ☐ E ☐ W Begin 1013' feet from reference marker N of #9

Direction ☒ N ☐ S ☐ E ☐ W End 2036' feet from reference marker N of #9

☐ N ☒ S ☐ E ☐ W from city of Trenton or 0.75 miles from junction highway 1804

TYPE OF FACILITY (Complete appropriate spaces only.)

Description of Proposed Facility
Construct 10 inch pipeline along east side of Hwy 58 to avoid impacting the Fort Buford Historic Site.

Size of Facility	Number of Cables	Length of Down Guys
10 inch diametrer steel pipeline		
Pipeline Pressure	**Size of Casing**	**Length of Casing**
1440 MAOP Psi	none	N/A
Location of Pole(s)	**Location of Appurtenances**	**Location - Others**

TERMS AND CONDITIONS: Installation and maintenance of said facilities on highway right of way shall be subject to the North Dakota Department of Transportation's (NDDOT's) "*A Policy for Accommodation of Utilities on State Highway Right of Way*", current edition, and the following terms and conditions, attached hereto and made a part hereof.

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(C) The Risk Management Appendix, attached, is hereby incorporated and made a part of this agreement.
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(E) Owner shall promptly remove said facilities from highway right of way, or shall relocate or adjust said facilities, at its sole cost and expense when requested to do so by NDDOT.
(F) NDDOT specifically reserves the right to revoke, or change the terms and conditions of, this Permit with or without cause and upon notice to the Owner.
(G) The installation shall be completed on or before August 30, 20 05

May 16, 2005
DATE

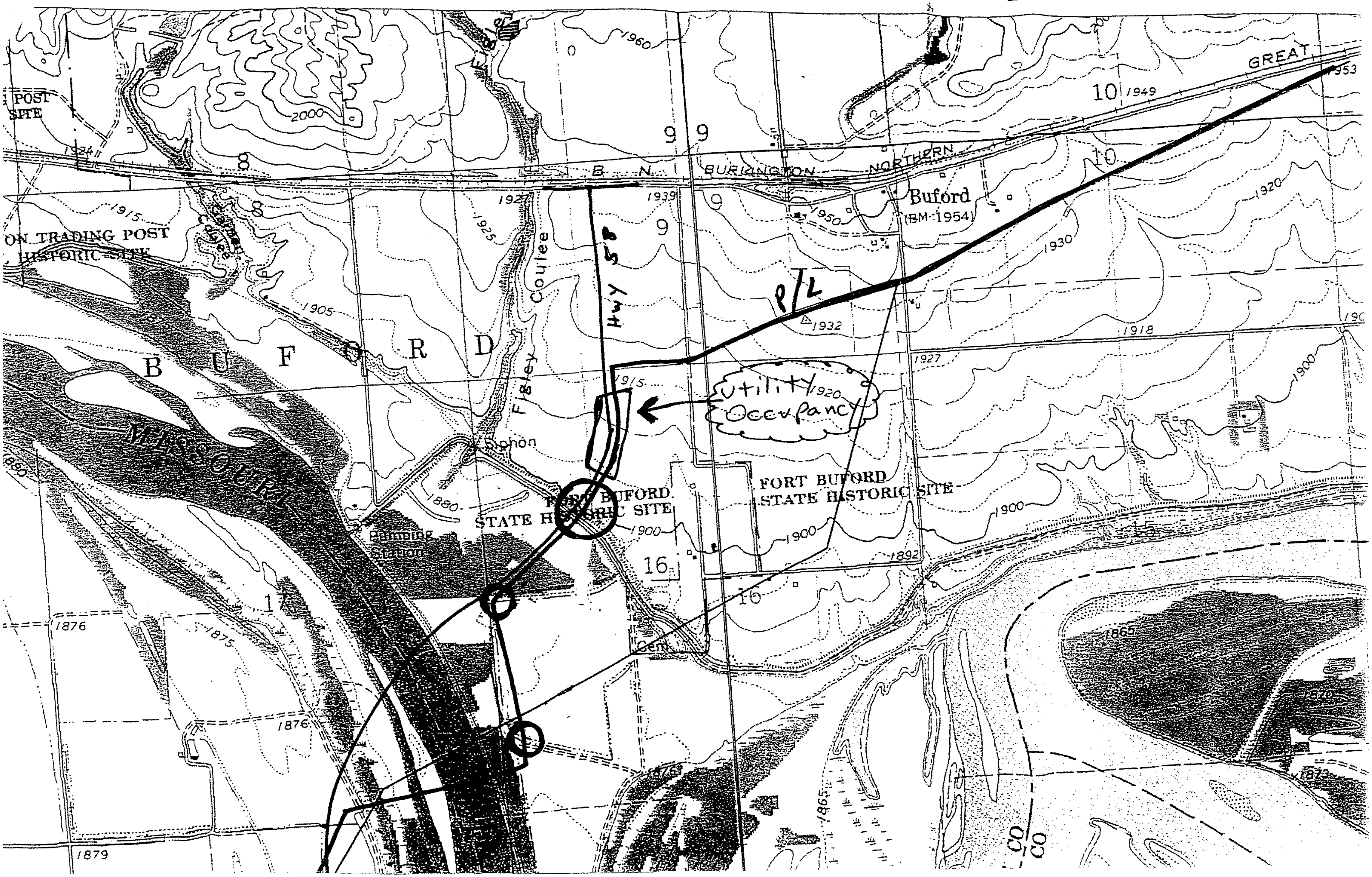
Daniel Holth Envr. Spec.
OWNER'S SIGNATURE

The Owner is hereby granted permission to install and maintain the facilities applied for, as shown on the plans attached hereto and made a part hereof.
Approved by NDDOT this 26 day of MAY, 2005.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

WALTER A. PETERSON
DISTRICT ENGINEER (TYPE OR PRINT)

Walter A. [illegible]
SIGNATURE



POST
SITE
1960
2000
GREAT
10
1949
1953
8
9 9
10
1924
B N BURLINGTON NORTHERN
Buford
(BM 1954)
1927
1939
1950
1920
8
9
1915
ON TRADING POST
HISTORIC SITE
1925
Coulee
Hwy 58
P/L
1930
1932
1905
B U F O R D
Figley
1918
1927
1900
1915
Utility
Occupancy
1920
Siphon
MISSOURI
1880
FORT BUFORD
STATE HISTORIC SITE
FORT BUFORD
STATE HISTORIC SITE
1900
1900
1900
Pumping
Station
16
16
1892
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CO
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Office of the State Engineer

June 16, 2005

Pains Pipeline, L. P.
PO Box 708
Belfield, ND 58622

RE: Application S-1381

Dear Daniel Holli:

Enclosed is your authorization to slick bore under the Missouri River a 10" diameter steel pipeline, excavating upland of both banks of the river. Also enclosed are copies of all the solicitation of views we received in response to your project.

If you have any questions or feel we can be of further assistance, please feel free to contact Dwight Comfort at 328 -4862.

Sincerely,

Ed Gall
Regulatory Section

EG/1292

Sovereign Land Permit #S-1381

Permittee: **Plains Pipeline, L. P.**
PO Box 708
Belfield, ND 58622

Location: **SE ¼ SE ¼ Section 17, Township 152 N, Range 104 West, Williams County and NE ¼ NE ¼ Section 20 Township 152 N, Range 104 West, McKenzie County**

Project Description:

The permittee is hereby authorized to slick bore under the Missouri River a 10" diameter steel pipeline, excavating upland of both banks of the River.

This authorization is subject to the conditions listed below and the attached North Dakota Department of Health "Construction and Environmental Disturbance Requirements." Any other use of sovereign land is prohibited. Any proposed additional use must comply with the application and permitting process and other requirements of state law.

General Conditions

1. All construction, maintenance and reclamation activities shall be carried out in a manner reasonably designed to prevent degradation of the river banks or bottom.

2. At the discretion of the State Engineer, in accordance with the exercise of any of the State Engineer's duties, the project is subject to modification at the expense of the Permittee.

3. The State Engineer or the State Engineer's representative shall have access to inspect the authorized activity during the construction, and for the life of the project to ensure that it is being or has been accomplished and maintained in accordance with the terms and conditions of this Authorization.

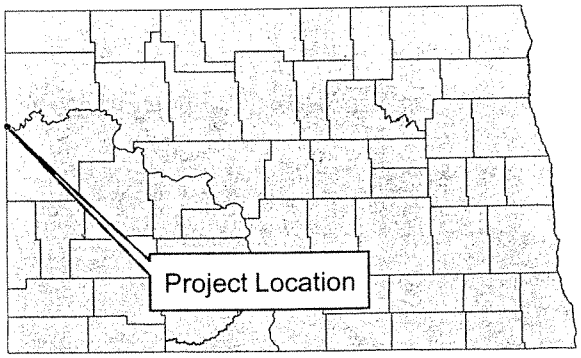
4. That by granting this Authorization, no liability for damages of any kind, including but not limited to those caused by improper construction, operation and maintenance, design or failure in design, materials or workmanship is assumed by or transferred to the State of North Dakota, the State Engineer, the State Water Commission or their employees, agents, or assigns. The permittee will indemnify and hold harmless the State of North Dakota, its official, employees, agents, boards, commission, and assigns for any and all liability for work performed and action taken under this Authorization.

5. Reseed disturbed areas with a native grass mixture immediately after construction to reduce the movement of soil into the Missouri River.

6. Inventory all woody plants that will be destroyed by the project and replace on a 2:1 basis.

Dated this 18th day of May 2005, at Bismarck, North Dakota.

Dale L. Frink
State Engineer



Plains Pipeline, LP
Williams Co
T.152N,R104W section 17
Permit S-1381

Sovereign Land Permit #S-1381

Permittee: **Plains Pipeline, L. P.**
PO Box 708
Belfield, ND 58622

Location: **SE ¼ SE ¼ Section 17, Township 152 N, Range 104 West, Williams County and NE ¼ NE ¼ Section 20 Township 152 N, Range 104 West, McKenzie County**

Project Description:

The permittee is hereby authorized to slick bore under the Missouri River a 10" diameter steel pipeline, excavating upland of both banks of the River.

This authorization is subject to the conditions listed below and the attached North Dakota Department of Health "Construction and Environmental Disturbance Requirements." Any other use of sovereign land is prohibited. Any proposed additional use must comply with the application and permitting process and other requirements of state law.

General Conditions

1. All construction, maintenance and reclamation activities shall be carried out in a manner reasonably designed to prevent degradation of the river banks or bottom.

2. At the discretion of the State Engineer, in accordance with the exercise of any of the State Engineer's duties, the project is subject to modification at the expense of the Permittee.

3. The State Engineer or the State Engineer's representative shall have access to inspect the authorized activity during the construction, and for the life of the project to ensure that it is being or has been accomplished and maintained in accordance with the terms and conditions of this Authorization.

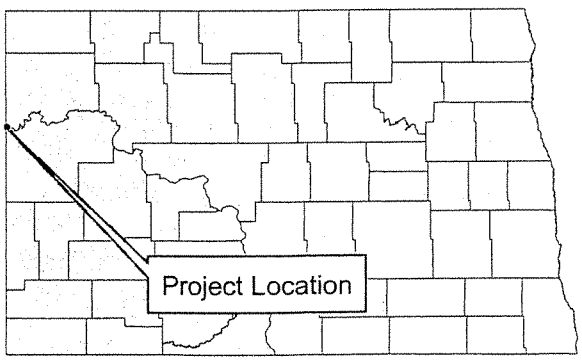
4. That by granting this Authorization, no liability for damages of any kind, including but not limited to those caused by improper construction, operation and maintenance, design or failure in design, materials or workmanship is assumed by or transferred to the State of North Dakota, the State Engineer, the State Water Commission or their employees, agents, or assigns. The permittee will indemnify and hold harmless the State of North Dakota, its official, employees, agents, boards, commission, and assigns for any and all liability for work performed and action taken under this Authorization.

5. Reseed disturbed areas with a native grass mixture immediately after construction to reduce the movement of soil into the Missouri River.

6. Inventory all woody plants that will be destroyed by the project and replace on a 2:1 basis.

Dated this 18th day of May 2005, at Bismarck, North Dakota.

Dale L. Frink
State Engineer



Plains Pipeline, LP
Williams Co
T.152N,R104W section 17
Permit S-1381

John Hoeven, Governor
Douglass A. Prchal, Director

1600 East Century Avenue, Suite 3
Bismarck, ND 58503-0649
Phone 701-328-5357
Fax 701-328-5363
E-mail parkrec@state.nd.us
www.NDparks.com

May 2, 2005

Dwight Comfort
Office of the State Engineer
900 East Boulevard
Bismarck, ND 58505-0850

RE: Plains Pipeline L.P. Pipeline Project Proposal

Dear Mr. Comfort:

The North Dakota Parks and Recreation Department has reviewed the above referenced proposal from Plains Pipeline L.P. to install a 10-inch steel pipeline located in Sections 17 and 20, T152N, R104W, Williams and McKenzie Counties.

Our agency scope of authority and expertise covers recreation and biological resources (in particular rare species and ecological communities). The project as defined does not affect state park lands that we manage or Land and Water Conservation Fund recreation projects that we coordinate.

The North Dakota Natural Heritage Inventory (NDNHI) has records indicating the presence of *Platygobio gracilis* (flathead chub), *Cycleptus elongatus* (blue sucker), *Scaphirhynchus albus* (pallid sturgeon), and *Polyodon spathula* (paddlefish) within or adjacent to the project area. Please see attached spreadsheet and map for more specific information on these species. We defer further comments regarding these animal species to the North Dakota Game and Fish Department and the United States Fish and Wildlife Service.

The NDNHI recommends that the project be accomplished with minimal impacts and that all efforts be made to ensure that critical habitats not be disturbed in the project area to help secure rare species conservation in North Dakota. Regarding any reclamation efforts, we recommend that any impacted areas be revegetated with species native to the project area.

We appreciate your commitment to rare plant, animal and ecological community conservation, management and inter-agency cooperation to date. For additional information please contact Kathy Duttenhefner (701-328-5370 or kgduttenhefner@state.nd.us) of our staff. Thank you for the opportunity to comment on this proposed project.

Sincerely,

for Kathy Duttenhefner

Jesse Hanson, Coordinator
Planning and Natural Resources Division

R.USNDNHI*1488

North Dakota Natural Heritage Inventory
Species of Concern and Significant Ecological Communities

State Scientific Name	State Common Name	Township & Range	Section	TRS Notes	State Rank	Global Rank	Federal Status	Last Observation
SCAPHIRHYNCHUS ALBUS	PALLID STURGEON	152N104W	21	SE1/4	S1	G1	LE	1994-09-28
POLYODON SPATHULA	PADDLEFISH	152N104W	21		S?	G4		1994-09-28
PLATYGOBIO GRACILIS	FLATHEAD CHUB	152N104W	17	ALSO SEC 18	S?	G5		1994-08-04
CYCLEPTUS ELONGATUS	BLUE SUCKER	152N104W	17		S3	G3G4		1994-04-29

North Dakota Natural Heritage Inventory Biological and Conservation Data Disclaimer

The quantity and quality of data collected by the North Dakota Natural Heritage Inventory are dependent on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in North Dakota have never been thoroughly surveyed, and new species are still being discovered. For these reasons, the Natural Heritage Inventory cannot provide a definite statement on the presence, absence, or condition of biological elements in any part of North Dakota. Natural Heritage data summarize the existing information known at the time of the request. Our data are continually upgraded and information is continually being added to the database. This data should never be regarded as final statements on the elements or areas that are being considered, nor should they be substituted for on-site surveys.

John Hoeven, Governor
Douglass A. Prchal, Director

1600 East Century Avenue, Suite 3
Bismarck, ND 58503-0649
Phone 701-328-5357
Fax 701-328-5363
E-mail parkrec@state.nd.us
www.NDparks.com

May 2, 2005

Dwight Comfort
Office of the State Engineer
900 East Boulevard
Bismarck, ND 58505-0850

RE: Plains Pipeline L.P. Pipeline Project Proposal

Dear Mr. Comfort:

The North Dakota Parks and Recreation Department has reviewed the above referenced proposal from Plains Pipeline L.P. to install a 10-inch steel pipeline located in Sections 17 and 20, T152N, R104W, Williams and McKenzie Counties.

Our agency scope of authority and expertise covers recreation and biological resources (in particular rare species and ecological communities). The project as defined does not affect state park lands that we manage or Land and Water Conservation Fund recreation projects that we coordinate.

The North Dakota Natural Heritage Inventory (NDNHI) has records indicating the presence of *Platygobio gracilis* (flathead chub), *Cycleptus elongatus* (blue sucker), *Scaphirhynchus albus* (pallid sturgeon), and *Polyodon spathula* (paddlefish) within or adjacent to the project area. Please see attached spreadsheet and map for more specific information on these species. We defer further comments regarding these animal species to the North Dakota Game and Fish Department and the United States Fish and Wildlife Service.

The NDNHI recommends that the project be accomplished with minimal impacts and that all efforts be made to ensure that critical habitats not be disturbed in the project area to help secure rare species conservation in North Dakota. Regarding any reclamation efforts, we recommend that any impacted areas be revegetated with species native to the project area.

We appreciate your commitment to rare plant, animal and ecological community conservation, management and inter-agency cooperation to date. For additional information please contact Kathy Duttenhefner (701-328-5370 or kgduttenhefner@state.nd.us) of our staff. Thank you for the opportunity to comment on this proposed project.

Sincerely,

for Kathy Duttenhefner

Jesse Hanson, Coordinator
Planning and Natural Resources Division

R.USNDNHI*1488

MAY 2005
RECEIVED
State Water Commission

Play in our backyard!

North Dakota Natural Heritage Inventory
Species of Concern and Significant Ecological Communities

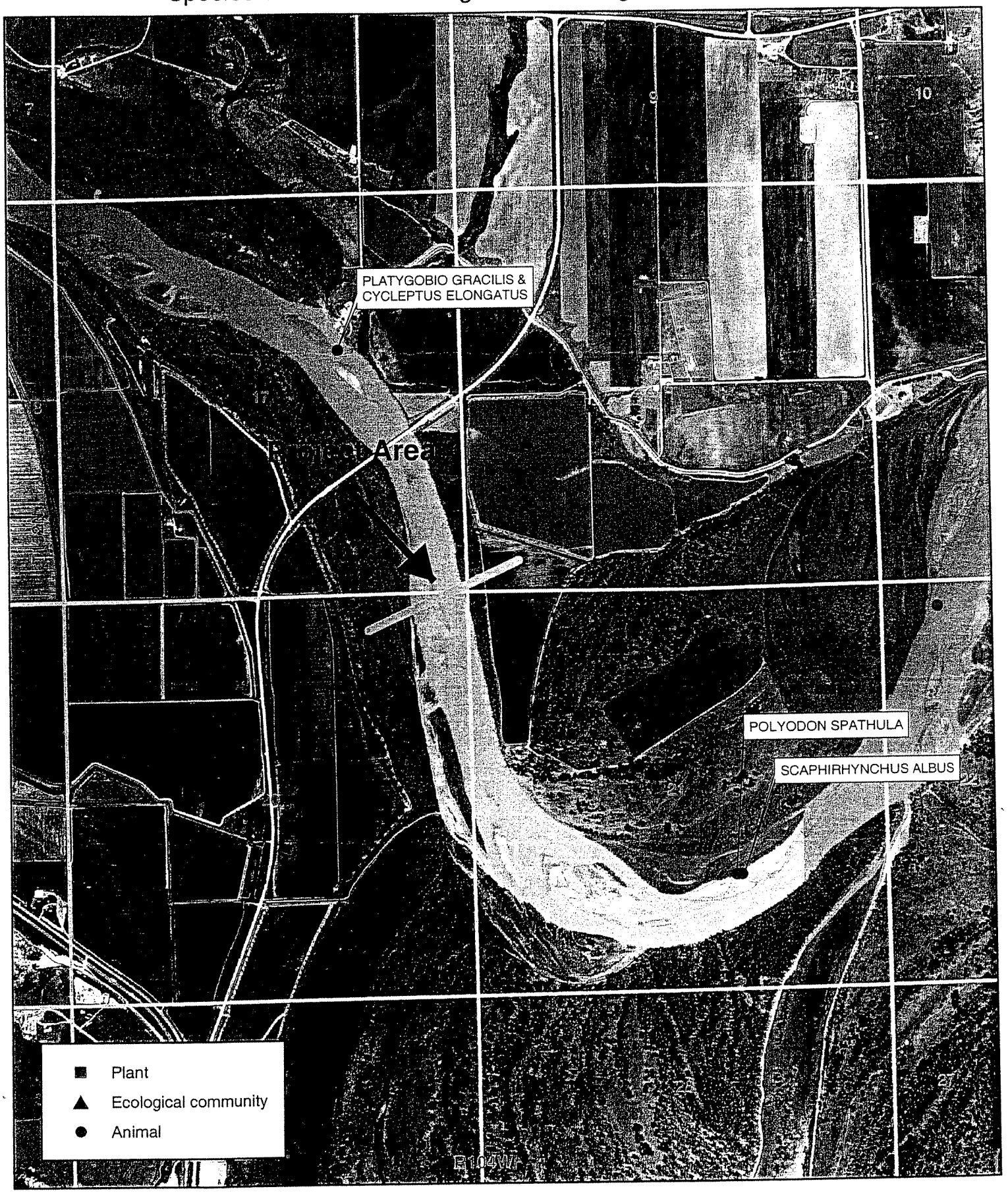
State Scientific Name	State Common Name	Township & Range	Section	TRS Notes	State Rank	Global Rank	Federal Status	Last Observation
SCAPHIRHYNCHUS ALBUS	PALLID STURGEON	152N104W	21	SE1/4	S1	G1	LE	1994-09-28
POLYODON SPATHULA	PADDLEFISH	152N104W	21		S?	G4		1994-09-28
PLATYGOBIO GRACILIS	FLATHEAD CHUB	152N104W	17	ALSO SEC 18	S?	G5		1994-08-04
CYCLEPTUS ELONGATUS	BLUE SUCKER	152N104W	17		S3	G3G4		1994-04-29

North Dakota Natural Heritage Inventory Biological and Conservation Data Disclaimer

The quantity and quality of data collected by the North Dakota Natural Heritage Inventory are dependent on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in North Dakota have never been thoroughly surveyed, and new species are still being discovered. For these reasons, the Natural Heritage Inventory cannot provide a definite statement on the presence, absence, or condition of biological elements in any part of North Dakota. Natural Heritage data summarize the existing information known at the time of the request. Our data are continually upgraded and information is continually being added to the database. This data should never be regarded as final statements on the elements or areas that are being considered, nor should they be substituted for on-site surveys.

4/29/2005

North Dakota Natural Heritage Inventory
Species of Concern and Significant Ecological Communities



North Dakota Parks & Recreation Department
North Dakota Natural Heritage Inventory
April 2005

John P

"VARIETY IN HUNTING AND FISHING"

NORTH DAKOTA GAME AND FISH DEPARTMENT

100 NORTH BISMARCK EXPRESSWAY BISMARCK, NORTH DAKOTA 58501-5095 PHONE 701-328-6300 FAX 701-328-6352

April 20, 2005

Dale Frink
State Engineer
900 East Boulevard Avenue
Bismarck, North Dakota 58505-0850

Re: Plains Pipeline
Application No.: S-1381

Dear Mr. Frink:

The North Dakota Game and Fish Department has received notification of Plains Pipeline's proposal to construct a project on sovereign lands. The proposed project consists of directionally boring a 10-inch diameter steel pipeline under the Missouri River near Fort Buford. The proposed project is located in the SE1/4SE1/4 of Section 17, Township 152 North, Range 104 West in Williams County and in the NE1/4 of Section 20, Township 152 North, Range 104 West in McKenzie County, North Dakota.

The Missouri River is considered a Class I stream, providing valuable spawning and rearing habitat for numerous species of fish. Due to the nature of the proposed project and proximity to the Missouri River, the Department suggests implementing the following recommendations to minimize impacts to fish and wildlife resources:

1. Efforts should be made to prevent the destruction of woody vegetation, and any unavoidable losses of trees and shrubs should be replaced with similar species on a 2:1 basis.

2. Disturbed areas should be planted to a native grass mixture.

3. Erosion control measures should be implemented to minimize the opportunity for sediments to enter the waterways.

4. We request work does not take place within the waterways from April 15 to June 1 to protect the fisheries resource.

5. Any disruption or displacement of the streambed and banks must be restored to pre-project conditions.

In addition, the Department recommends avoiding State Wildlife Management Areas when possible; however, in the event they cannot be avoided, a special use permit will be required from the Department. Kent Luttschwager, Wildlife Resource Management Supervisor in our Williston District Office should be contacted at (701) 774-4320 regarding issuance of a Special Use Permit.

Sincerely,

Michael G. McKenna
Chief
Conservation & Communication Division

blk

STATE HISTORICAL SOCIETY OF NORTH DAKOTA

April 14, 2005

Mr. Dwight Comfort, PE
Water Resource Engineer
Regulatory Section
Office of the State Engineer
900 East Boulevard Avenue
Bismarck, ND 58505-0850

ND SHPO REF.: 05-0669 (see also 05-0635) OSE Missouri River Pipeline Crossing [T152N R 104W Section 17, Williams County and T152N R104W Section 20, McKenzie County]
S-1381 Plains Pipeline L.P. Applicant

Dear Mr. Comfort:

We have reviewed Project: "05-0669 (see also 05-0635) OSE Missouri River Pipeline Crossing [T152N R 104W Section 17, Williams County and T152N R104W Section 20, McKenzie County]."

As indicated in attached letter (05-0635), we concurred with recommended Class III Cultural Resources Inventory for the "Richland County Expansion Project" that extends into North Dakota, and includes the aforementioned river crossing segment. There are concerns expressed about the proposed pipeline route adjacent to the river crossing in Williams County.

Thank you for the opportunity to review this project. Please include the ND SHPO Reference number listed above in any further correspondence for this specific project. If you have any questions please contact either Paul Picha at (701) 328-3574 or Fern Swenson at (701) 328-3575.

Sincerely,

Merlan E. Paaverud, Jr.
State Historic Preservation Officer (North Dakota)
and
Director, State Historical Society of North Dakota
enc. as stated

PLAINS
ALL AMERICAN

ENVIRONMENTAL, HEALTH AND SAFETY POLICY

Plains All American and its affiliated limited partnerships adhere to high standards of environmental quality and are committed to providing a work place that protects the health and safety of our employees and the communities surrounding our facilities. In fulfillment of this commitment, the Partnership will:

- Comply with the laws, rules and regulations that pertain to the environment, health and safety, and are applicable to the Partnership's business.
- Verify compliance through self-monitoring programs and regular facility assessments and, in a timely manner, correct any conditions in our operations that have a significant adverse health, safety or environmental impact.
- Train and empower each employee to recognize his or her responsibility and accountability to perform all activities in a manner that is safe for the employee, their co-worker and the environment.
- Establish and maintain corporate controls, including periodic reviews, to ensure that the Partnership's policy is being properly implemented and maintained.
- Participate when possible with government on a federal, state and local level in creating reasonable and attainable regulations to safeguard the community, workplace and the environment.
- Assess potential environmental, health or safety liabilities prior to the sale, lease, transfer or purchase of real property.
- Establish appropriate design, construction, operating and maintenance programs and practices to minimize risks, reduce releases and waste, increase energy efficiency, and conserve natural resources.
- Establish programs to analyze and mitigate risks, investigate significant environmental and safety incidents, and prepare for and respond to emergencies.

Mark F. Shires
Vice-President Operations

Troy E. Valenzuela
Vice-President EH&S

4.0 Response Activities and Resources

4.1 General

It shall be the goal of Plains Pipeline L.P. to detect, report, respond, and clean-up any oil spills with Plains Pipeline L.P. personnel. However, due to the extent of operations, certain functions will be performed by outside parties. It is also the goal of Plains Pipeline L.P. to avoid having a spill managed by local, state or federal authorities. These procedures are based on the presumption that Plains Pipeline L.P. will manage the incident and Plains Pipeline L.P. personnel will serve as On-scene (OC) and Incident Commanders (IC). Functions performed by outside parties may include initial notification to Plains Pipeline L.P., initial investigation, or even initial response activities such as containment efforts.

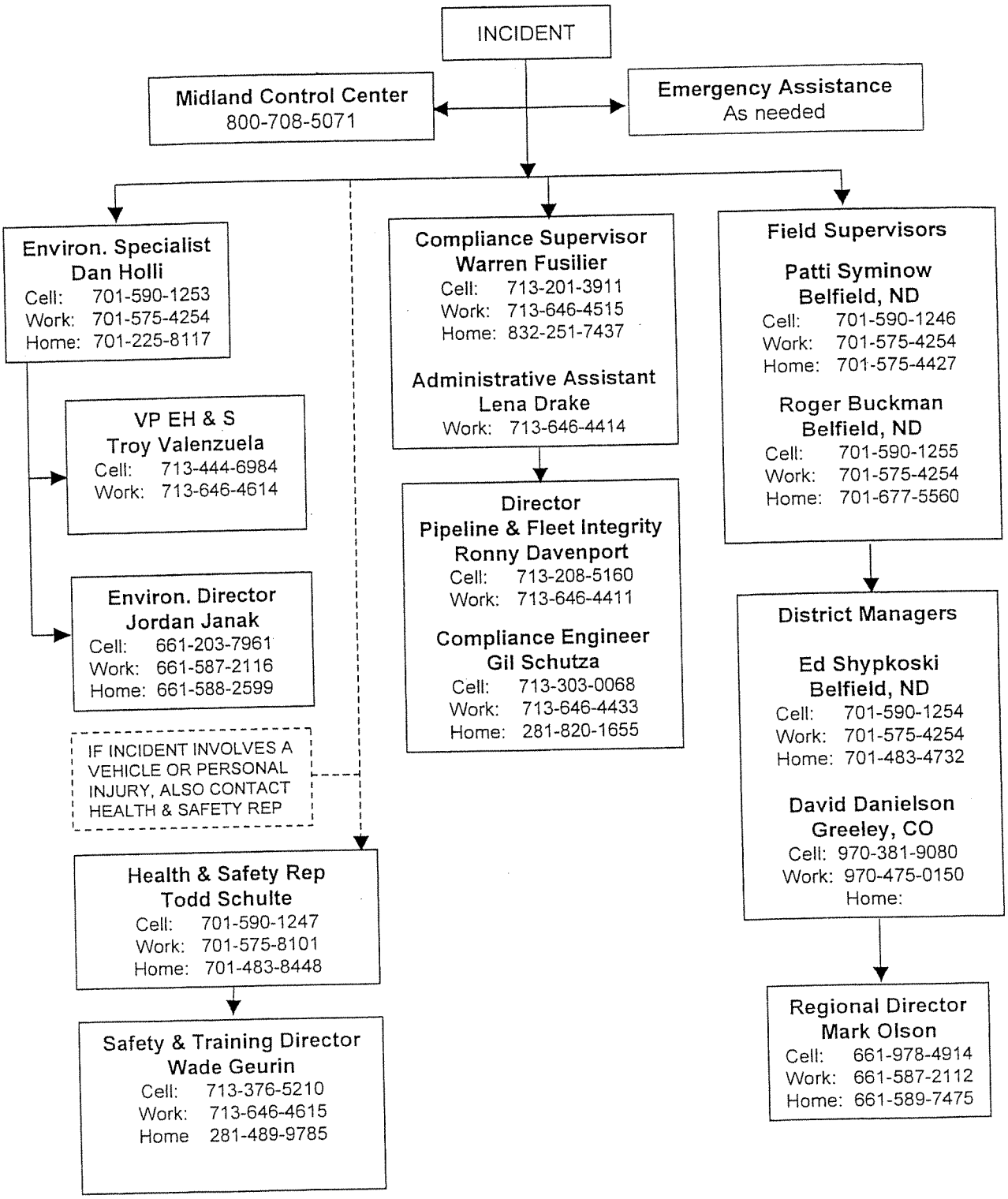
As soon as the incident has been determined to involve a Plains Pipeline L.P. facility, Plains Pipeline L.P. will take responsibility for response and notification activities. Contractors will be used if necessary for containment and clean-up operations or pipeline repairs. Only Plains Pipeline L.P. Personnel will act as QIs or perform notifications to outside sources such as agencies or media. Only Plains Pipeline L.P. personnel will interface with outside agencies as representatives of Plains Pipeline L.P..

The overall approach to an incident will be:

1. Verification of involvement of Plains Pipeline L.P. facilities.
2. Shut down of the segment in accordance with the operations manual.
3. Segment or facility isolation using block valves.
4. Segment or facility drain down using system equipment or other available means.
5. Containment of the release.
6. Repair of the segment or component causing the release.
7. Recovery of the spilled material.
8. Removal or treatment of environmental media contaminated by the spilled material.
9. Monitoring of the site for closure of the incident.

To the extent possible, clean-up operations will be managed with existing District or Response Zone staffing for the first 7 days. Plains Pipeline L.P. will also utilize a local spill contractor if necessary during the first 7 days. The contractor has sufficient number of trained personnel necessary to continue operation of the equipment. If necessary work sites will be manned 24 hours per day in shifts of 12 hours each. As a rule of thumb the night shift will be limited to monitoring containment equipment or recovery operations, but only if safe and necessary. Generally, staffing is such that emergency response activities can be conducted for up to a two week period without impact on maintenance activities. Emergency response activities beyond a two week period may require arrangements for personnel from other response zones or contract personnel. Long term clean-up or remediation activities such as groundwater remediation will be handled with contractors.

PLAINS PIPELINE L.P.
INCIDENT CONTACT FLOW DIAGRAM



Revised 12/04

4.1.1 Discovery by Plains Pipeline L.P. Employee

The first Plains Pipeline L.P. employee to discover an emergency situation shall be responsible for:

1. Taking any immediate action necessary to preserve life and property.
2. Taking any necessary action to minimize the volume of hazardous liquid being released or property damage. This may involve emergency shutdown or reducing pressure of pipeline systems.
3. Calling for assistance as needed from fire, police, etc.
4. Notifying the appropriate QI or alternate..
5. Collecting information for "Spill Reporting form".
6. Forwarding "Spill Reporting Form" information to appropriate personnel.

Refer to the Crisis Flow Diagram shown below.

4.1.2 Discovery by Outside Party with Notification to Plains Pipeline L.P.

The first Plains Pipeline L.P. employee notified of an emergency by a non-company person is responsible for:

1. Verifying the call.
2. Obtaining as much "Spill Reporting Form" information as possible from the person calling in.
3. Calling for assistance (Fire, Police, etc.) if necessary.
4. Notifying the Pipeline control Center if appropriate.
5. Notifying the appropriate the QI or alternate.

Refer to the Crisis Flow Diagram shown below

4.1.3 Role of Qualified Individual

Any of several qualified individuals who are available during normal business hours can be contacted for assistance. A list of qualified individuals for each area is presented in Section 5.

The role of the Qualified individual is to

- Activate and contract with required oil spill removal organizations,
- Activate personnel and equipment maintained by the operator,
- Act as liaison with the on scene coordinator, and
- Obligate any funds required to carry out all required and directed oil spill response activities.

An on – call employee list is maintained indicating which qualified employee is available to take

calls after normal business hours in the three areas on a 24 hour basis. This on - call list is posted in each of the areas. If the qualified individual cannot be reached in one area, a qualified individual on call from one of the other areas can serve as an alternate QI.

If the first attempt to contact a local QI is unsuccessful, an attempt should be made to contact an alternate QI from another area. On becoming aware that an emergency exists, the QI or designee will use the information collected on the "Spill Reporting Form" to determine if emergency response or outside help is needed. The QI or his designee will be responsible for taking the following appropriate action.

- Protect life and/or take property saving actions.
- Take steps to control or minimize oil released.

4.1.4 Role of Incident Commander

The first Qualified Individual on the scene of an emergency response situation will become the Incident commander. The Incident Commander will be responsible for the overall management of the incident through use of the Unified Command Structure. Depending on the magnitude of the incident, the Incident Commander will activate those parts of the Unified Command Structure that he believes are required to respond adequately to the incident.

The Unified Command Structure may require as few as one individual (the Incident Commander) in small response situations to handle all the functions of emergency response or it may require several individuals, as the Incident Commander deems necessary to fill the required staff positions in the Unified Command Structure.

- The Incident Commander will have the option of delegating his position to another qualified individual as the need arises.

4.1.5 Role of Plains Pipeline L.P. Management

The Plains Pipeline L.P. authorities listed in Section 2, once notified, will provide interface and update information to other interested corporate personnel. This will aid the Incident Commander or QI in only being required to notify one contact in the respective departments.

4.1.6 Oil Spill Response Organizations and Contractors

In some cases, it will be necessary to use Oil Spill Response Organizations or contractors in spill management efforts. Contractors will generally be given specific tasks based on specialized expertise. Mutual aid organizations will contain a variety of expertise. In all circumstances only a Plains Pipeline L.P. employee will serve as Incident Commander unless requested to relinquish it

a FOSC attendant. Available equipment of contractors and of mutual aid organizations, and indication of 24 hour availability of Contract employees is presented in Appendix 4.

4.1.6.1 Roles and Responsibilities of contractors

The roles and responsibilities of contractors that respond to an emergency include the following items:

- Be available on a 24 hour basis to respond to an emergency situation.
- Meet Operator Qualification requirements or have an OQ certified person designated to oversee contractor work.
- Work with the Incident Commander under direction of the Operations Section Chief to accomplish tasks developed by the Unified Command in the Incident Action Plan.
- Report progress and difficulties through the appropriate UC section chiefs for evaluation and possible relaying to the Incident Commander as required.
- Ensure that contract employees perform job tasks in a safe and reliable manner.

Contractors are expected to provide a supervisor who will be directed by Plains Pipeline L.P. personnel. Normally a Plains Pipeline L.P. representative will be assigned to a group of contractors and will inspect the work of the contractors. The Plains Pipeline L.P. inspector will interface with the contractor's supervisor Incident Command.

4.1.6.2 Roles and responsibilities of mutual aid organizations

Members of mutual aid organizations may have specific tasks to perform involving deploying equipment and sampling to determine the extent of contamination. These response personnel will have the following roles and responsibilities:

- Work with the Incident commander under direction of the Operations Section Chief to accomplish tasks developed by the Unified command in the Incident Action Plan.
- Report progress and difficulties through the appropriate UC section chiefs for evaluation and possible relaying to the Incident Commander as required.
- Ensure that mutual aid organization employees perform job tasks in a safe and reliable manner.

Members of mutual aid organizations will be directed by the Operations Section Chief under direction of the Plains Pipeline L.P. Incident Commander to perform specific tasks or functions within the incident command structure.

4.1.7 Communications Procedures

The Incident Commander is responsible to ensure the section chiefs have communications equipment adequate for maintaining communications during a worst case discharge. The IC is responsible to maintain communications with emergency response personnel during a worst case discharge by cell

phone or truck radio or other means to track and assess the conditions of the emergency response activities and to provide direction on how to accomplish the response activity. The Incident Commander should have adequate means to contact the Information Officer, Safety Officer and Liaison Officer as well.

In a worst-case discharge situation, response personnel may need to go into areas where cell phone or truck radio coverage is diminished. In these cases a walkie-talkies or another means of communication may be necessary. When using walkie-talkies, one person should remain stationed at a point where communication with the Incident commander is adequate and within range of communications from the emergency responder(s).

The various Section Chiefs are responsible to select a work location where communication with both the emergency response personnel and the Incident commander is adequate. The Section Chiefs are responsible to maintain communication with the command center using the equipment they have available.
Provision should be made to allow for recharging of cell phone and walkie-talkie radios.

6.0 Response Training

6.1 Training Procedures

Plains Pipeline L.P. has an annual training and education plan which meets the requirements of 29 CFR 1910.120. The annual plan consists of classroom and team based training that includes safety and environmental issues such as: characteristics and hazards of hydrdocarbons, emergency response procedures, selection and use of personal protective equipment, fire fighting procedures, HAZWOPER, etc. Training includes classroom training that is highly structured and standardized across the company. The team-based training has a standard lesson plan, but is structured to be specific to the teams' operations. Plains Pipeline L.P. training is conducted by Safety Specialists.

This annual training plan and associated training activities include both annually required and periodically required training. All employees in Plains Pipeline L.P. participate in this training. Field and supervisory employees may receive additional safety and environmental training specific to work practices in field work environment.

This training is documented using Plains Pipeline L.P.'s Training and Education Documentation Process, which includes signed roster sheets, and is recorded. Individual training documentation is kept on file at each Safety Specialist's office. To ensure effectiveness of this training, a standardized evaluation process to determine areas of training that need clarification and to check employee understanding of material has been established.

6.1.1 Specific Training, Including Initial And Periodic Refresher Training Will Include:

- A minimum of 8 hours of Hazardous Waste Operations and Emergency Response (HAZWOPER) training. This will include training in Personal Protective Equipment (PPE), and other hazard specific training where appropriate such as H2S and Benzene.
- Use of the Emergency Response Action Plan including a review of plan and content organization, how it is utilized during response to incidents, and review of the job assignments that team members may be expected to fill.
- Training in the Incident Command System (ICS)
- Training in use and understanding of Material Safety Data Sheets (MSDS) and safety precautions to be taken when the potential for exposure to hazardous material may exist. Material Safety Data Sheets are located in Appendix I of this Plan for reference.
- Training in the utilization of the company communications systems that may be used during a spill response.
- Familiarization with specific facilities where the member may be required to respond, such as location of valves, location of preplanned boom sites, etc.
- Training on the Operations and Maintenance Plan to be familiar with startup and shutdown procedures, etc.

In addition to the requirements/competencies listed below, the facility will take into

account during training sessions for all spill management team members the suggested National Preparedness for Response Exercise Program (PREP) guidelines as listed in Section 7.

6.2 Facility Spill Management Team:

Qualified Individual:

1. Read, review, and understand the elements of the facility response manual.
2. Understand response requirements - time, money, personnel, equipment.
3. Maintain liaison with response contractors.
4. Receive emergency response management training (e.g., 8 hr. HAZWOPER)
5. Recognize and know how to report emergency situations.
6. Receive training on emergency shutdown procedures including:
   - A. Shutting off sources of discharge/spill
     - (i) close tank valves
     - (ii) close line valves
     - (iii) stop pumps
   - B. Extinguishing potential ignition sources in the discharge/spill area.
     - (i) pumps
     - (ii) heaters
     - (iii) vehicles

Contractor Personnel:

The spill contractor(s) will provide management and response personnel with appropriate OSHA Hazwoper training, spill management training, and training on equipment used by the contractor.

Laborers:

The spill contractor(s) will be responsible for ensuring that any laborer brought on-site to assist with the response effort has received the necessary spill response (OSHA) training. This includes casual laborers or volunteers.

Volunteers:

Only persons who are associated with the facility's spill contractor(s) or other spill response organizations assisting in a spill remediation effort, and who are known to have the minimum required response training to perform a response task, will be permitted to assist with response to a discharge.

During post-emergency response, it may become necessary to hire additional personnel for site clean-up and rehabilitation. Whenever temporary personnel (casual hires) are involved, Plains Pipeline L.P. shall review the following items to ensure that they are properly trained:

1. Site-specific safety plan,
2. chemical hazards at the site,

3. wearing of appropriate personal protective equipment,
4. their specific role in the clean-up,
5. names and contacts for the Incident Command System personnel.

Upon completing this review, the temporary personnel will sign a roster sheet indicating that they have received this training and summary of the items covered. The roster sheet is then forwarded to the Incident Commander for inclusion in the incident documentation records.

Plains Pipeline L.P. Emergency Contacts:

1. Ed Shypkoski
   Manager, Belfield District
   (701)-575-4254 X 19 (Office)
   (701)-483-4732 (Home)
   (701) 590-1254 (Cell)

2. Roger Buckman
   Field Supervisor
   (701)-575-4254 Ext. 13 (Office)
   (701) 590-1255 (Cell)
   (713) 667-5560 (Home)

3. Jordan Janak
   Director, Environmental
   (661) 587-2116 (Office)
   (661) 203-7961 (Cell)

4. Daniel Holli
   Environmental R/C Specialist
   (701)-575-4254 X 34 (Office)
   (701) 225-8117 (Home)
   (701) 590-1253 (Cell)

5. Clark Ingram
   Plains Pipeline L.P. Insurance Representative
   (713)-993-5112 (Work)

6. Troy Valenzuela
   Plains Pipeline L.P. Media Contact
   (713) 646-4614 (Work)

M A C
Metcalf Archaeological Consultants, Inc.

May 23, 2005

Mr. Paul Picha, Chief Archaeologist
State Historical Society of North Dakota
North Dakota Heritage Center
612 East Boulevard Avenue
Bismarck, North Dakota 58505-0830

RE: NDSHPO Reference #05-0635
Trenton Loop Survey

Dear Mr. Picha,

Enclosed is a copy of the report discussing the results and recommendations for the cultural resource inventory our office conducted on behalf of Plains Pipeline, L.P.:

> Plains Pipeline Trenton Loop: A Class III Cultural Resource Inventory in Williams and McKenzie Counties, North Dakota.

After you have had the opportunity to review and consult, please contact the MAC Bismarck office, as well as the client, with your comments. Our client, Daniel Holli has also requested that you please submit a copy of your concurrence letter to Jason Renschler, Project Manager at the US Army Corps of Engineers Office of Bismarck as well, as Mr. Renschler is holding the river crossing permit for this project pending concurrence from your office.

> Mr. Daniel Holli, ES
> Plains Pipeline, L.P.
> P.O. Box 708
> Belfield, North Dakota 58622-0708.

Thank you Mr. Picha for your assistance with this project Again, should you have any questions or comments please contact the MAC Bismarck office.

Sincerely,

Suzanne Nelsen
Office Manager

cc: Mr. Daniel Holli, Plains Pipeline
Mr. Jason Renschler, US Army Corps of Engineers

enclosure

(970) 328-6244
FAX: (970) 328-5623
P.O. Box 899
Eagle, CO 81631
e-mail: mac@metcalfarchaeology.com

(701) 258-1215
FAX: (701) 258-7156
P.O. Box 2154
Bismarck, ND 58502
e-mail: macnodak@btinet.net

STATE HISTORICAL SOCIETY OF NORTH DAKOTA

May 31, 2005

Mr. Jason Renschler
Program Manager
US Army Corps of Engineers
North Dakota Regulatory Office
1513 South 12th Street
Bismarck, ND 58504

Mr. Daniel Holli, ES
Plains Pipeline, L.P.
PO Box 708
Belfield, ND 58622-0708

ND SHPO REF.: 05-0635c COE Plains Pipeline L.P.: Richland County Expansion and Trenton Loop, Williams and McKenzie Counties, North Dakota–Class III CRI Report
COE 200560121 Plains Pipeline L.P. Applicant, Missouri River Crossing

Dear Mr. Renschler:

We have reviewed project: "Plains Pipeline Trenton Loop: A Class III Cultural Resource Inventory in Williams and McKenzie Counties, North Dakota," by Ed Stine and Damita Hiemstra (Metcalf Archaeological Consultants, May 2005), and find it acceptable.

We concur with a *"No Historic Properties Affected"* determination provided the project is of the nature stated, takes place in the location mapped and plotted, and follows the recommended avoidance strategies (boring and rerouting) outlined in the report and in project correspondence.

Thank you for the opportunity to review this project. Please include the ND SHPO Reference number listed above in any further correspondence for this specific project. If you have any questions please contact either Paul Picha at (701) 328-3574 or Fern Swenson at (701) 328-3575.

Sincerely,

Merlan E. Paaverud, Jr.
State Historic Preservation Officer (North Dakota)
and
Director, State Historical Society of North Dakota

c: Suzanne Nelsen, MAC

13

NOTE:
Survey is based on Montana State Plane System, NAD83 (96), U.S. Foot. Azimuths shown are Grid Azimuths, distances shown are grid distance.

- DENOTES IRON MONUMENT FOUND
- DENOTES ORIGINAL STONE FOUND
- DENOTES IRON REBAR w/CAP SET – #3592 LS

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scale 1"=400' feet

Rev'd. 00/00/0000

Plains Marketing
Trenton Expansion
Williams County. ND.

SHEET NO. 1

Kadrmas Lee & Jackson
Engineers, Surveyors and Planners

10" Crude Line
House Proximity to Line
North Dakota State Line to Buford

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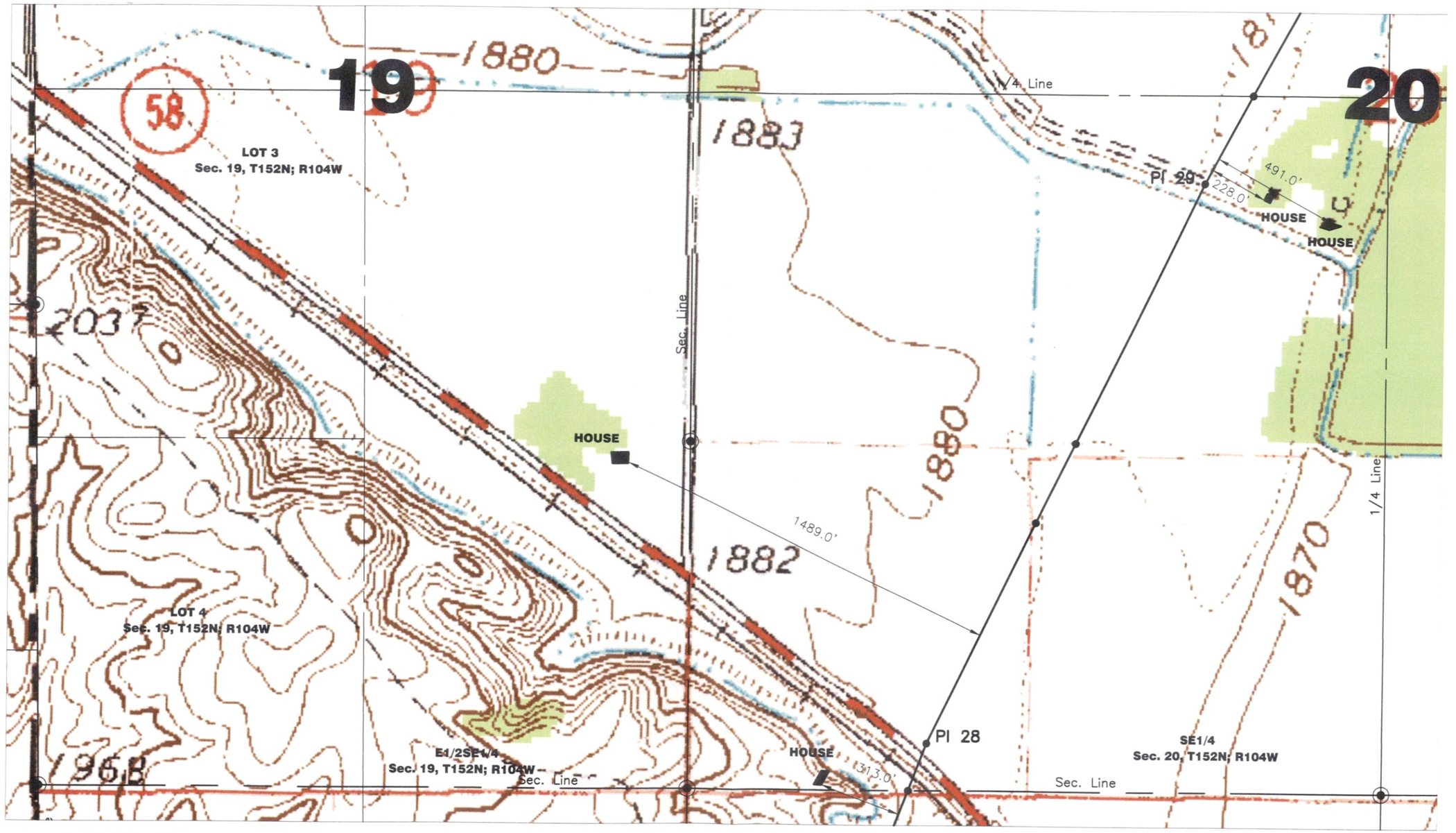

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scale 1"=400' feet

Rev'd. 00/00/0000

Plains Marketing
Trenton Expansion
Williams County. ND.

SHEET NO. 2

Kadrmas Lee & Jackson
Engineers, Surveyors and Planners

10" Crude Line
House Proximity to Line
North Dakota State Line to Buford

DRWN. BY	CHK'D BY	PROJECT NO.	DATE
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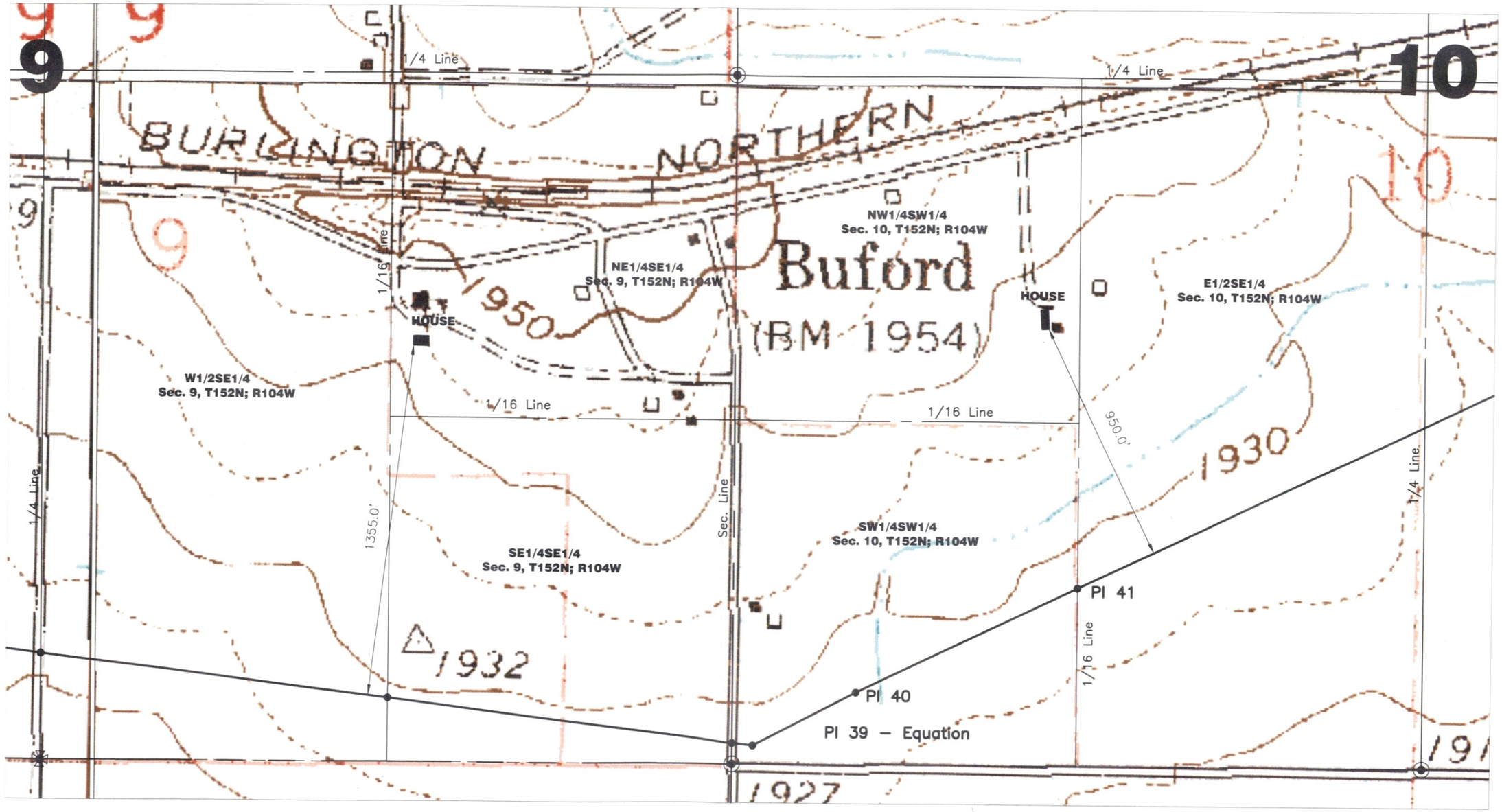

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scale 1"=400' feet

Rev'd. 00/00/0000

Plains Marketing
Trenton Expansion
Williams County. ND.

SHEET NO. 3

Kadrmas Lee & Jackson
Engineers, Surveyors and Planners

10" Crude Line
House Proximity to Line
North Dakota State Line to Buford

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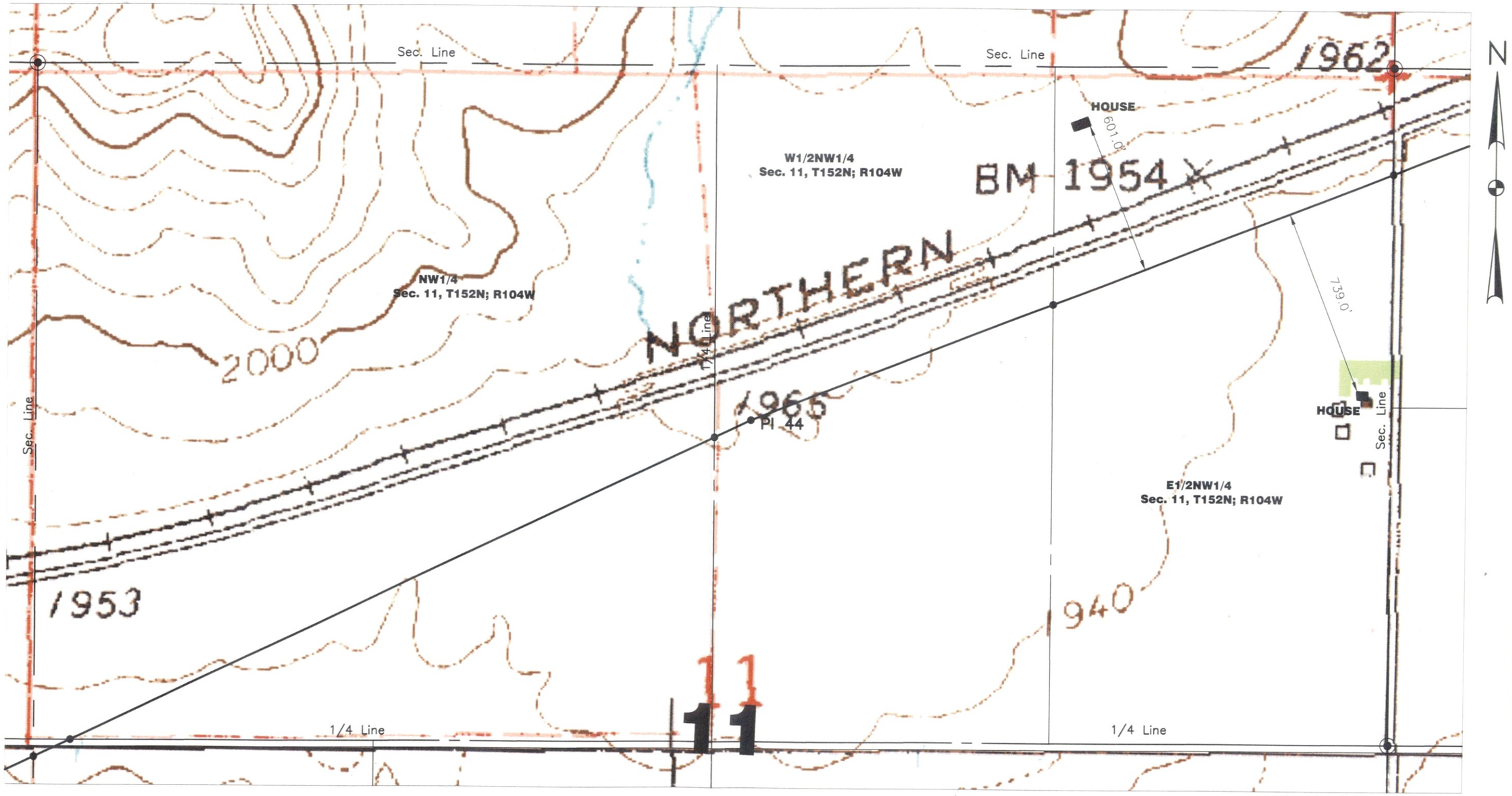

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scale 1"=400' feet

Rev'd. 00/00/0000

Plains Marketing
Trenton Expansion
Williams County. ND.

SHEET NO. 4

Kadrmas Lee & Jackson
Engineers, Surveyors and Planners

10" Crude Line
House Proximity to Line
North Dakota State Line to Buford

DRAWN BY	CHK'D BY	PROJECT NO.	DATE
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