

**PROPOSAL TO PERFORM  
CONSULTING SERVICES FOR POST-  
CONSTRUCTION SITING INSPECTIONS**

**RFP: PU-10-123**

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Response to RFP  
Holly Beck Surveying Engineering, Inc.

## RFP: PU-10-123

### Consulting Services for Post-Construction Siting Inspections

In response to RFP PU-10-123 issued by the North Dakota Public Service Commission on April 28, 2010, Holly Beck Surveying & Engineering, LLC located at 3120 East Broadway Avenue, Bismarck, ND 58501 offers this proposal.

#### *Agreement to Provisions*

Holly Beck Surveying & Engineering, LLC agrees to comply with all provisions of the above referenced RFP.

#### *Disclosure of Potential Conflict of Interest*

Holly Beck Surveying & Engineering, LLC is not aware of any conflicts of interests with this contract.

#### *Contact Information*

Questions related to this proposal should be addressed to:

Holly Beck, RLS, EIT  
President  
Holly Beck Surveying & Engineering, LLC  
3120 East Broadway Avenue  
Bismarck, ND 58501  
(701) 223-3546



Holly Beck



Date

## **Introduction**

Holly Beck Surveying & Engineering, LLC was founded in 2003 by the principle owner, Holly Beck. We are licensed in the state of North Dakota to practice both surveying and engineering. Our professional staff has a broad knowledge base that fits the needs of the Public Service Commission outlined in this RFP well. We have a Registered Land Surveyor who is also an Engineering in Training, a Professional Engineer who is also a Land Surveyor in Training and a young Engineering Intern. In addition, we have one full time engineering technician and three seasonal technicians. Our firm is located in Bismarck, ND. This central location in the state will allow us to visit almost any single facility location in one day, saving the cost incurred by overnight stays. Having our team based in Bismarck will also allow us to meet with individuals from the PSC face to face at the front end of this contract to get things started right, at very little cost.

## **Understanding of the Project**

Energy conversion and transmission facilities such as wind farms, oil and gas pipelines, etc. have a number of siting requirements in place to protect the environment and the welfare of North Dakota citizens. These requirements are reviewed and/or determined during the planning and permitting stages of a project. These requirements are then followed when completing the final design for a project and during construction. After construction, the facility is inspected to ensure that no violations occurred, and that the completed facility actually meets all of the siting requirements that it was intended to meet. If conflicts are found, they need to be promptly reported to the Public Service Commission, which in turn works with the utility company to rectify them. The final step, which is no less important than any other, is to document the results of the final inspection to demonstrate that all of the parties involved did in fact fulfill their obligations.

There are twenty plus energy conversion and transmission facility sites located across North Dakota that require the above mentioned inspection and documentation within the timeframe of this contract (June 17, 2010 – June 20, 2011). Each facility will have unique requirements within its certificate of compatibility and permit(s). These requirements will need to be identified, understood, and then the sites checked for compliance.

Holly Beck Surveying & Engineering, LLC anticipates being able to start working on these projects in June. We will actively work on them throughout this summer and fall to ensure completion by the contract end date. Access is the only potential problem that we have identified as mentioned below. With proper planning however, this should be dealt with relatively easily.

## **Methodology used for the Project**

The first step will be to gather all of the relevant information for a project. This will include copies of permit applications and the certificate of compatibility and site or route permit issued by the Public Service Commission, as well as any other siting or zoning permits that stemmed from the applications. We will then review this information in the office and make a list of the items that will need to be checked or verified during the site visit as well as the equipment that will be needed for the

inspection. (i.e. ATV, survey equipment, protective equipment, etc.) If access will be required to private property that is not granted in the construction easements, such as to verify the distance to a private residence, the ownership information will be obtained, and access requested. The site inspection will then be conducted by one or more team members. All of the information identified in the office review will be checked and any irregularities will be documented. During the field inspections, notes will be kept in a field book in a similar manner to how survey notes are kept, recording any measurements and/or photos that are taken. Finally, a report documenting the results of the inspection will be compiled and submitted to the Public Service Commission.

This is the first RFP for post construction inspection that the Commission has issued. As such, we intend to work very closely with the Commission to create a reporting format that is easy to understand. During the process for the first few facilities we would like to have one or more face to face meetings in addition to telephone and e-mail communications with the project manager and any other relevant decision maker to ensure that the format and content of the reports meet expectations. After we have established the format and content to everyone's satisfaction, the process will become more streamlined. We will continue to keep the Commission informed of our activities and progress, but will need much less information and feedback.

### **Experience and Qualifications**

Our firm has a good deal of experience with construction and surveying. The following is a list of representative projects that we have worked on in the last 2 years.

*SHE-4-023(012)056* – Preliminary survey, preliminary design and environmental document, final design and engineering plans for turning lanes at six intersections on ND Highway 23.

*STM-SNH-4-023(009)056 & STM-SNH-4-023(010)080* – Contract administration and construction staking, inspection and testing for 46 mile thin lift overlay on ND Highway 23.

*ROM-0300(099)* – Contract administration and construction inspection and testing for 39.75 miles of missile road regrading and shoulder repair.

*STN-4-083(080)920* – Construction survey for multi-use path including a new bridge in Minot, ND.

*SNH -5-085(056)090* – Subcontracted to complete the preliminary ground survey to facilitate the design of a turn lane on ND Highway 85.

We feel that the facility siting experience that Mr. Davidson has from working with livestock facilities and the surveying experience of our team most closely relate to this project. We have the skills and equipment to measure a facility's location within inches if necessary. More importantly however we are used to being in the field, identifying features on the ground, taking accurate measurements and properly recording our findings even in less than ideal conditions. The following personnel from our company will or may be involved in accomplishing work on this contract. Detailed resumes for these individuals are attached.

Douglas A. Davidson, PE, LSIT

*Project Engineer*

Mr. Davidson will perform office reviews of the applications and permits to develop the list of items that will be field verified. At times he will be a part of the inspection team, especially on complex sites. Doug will also prepare the final report to the Public Service Commission or review it, if prepared by another team member.

Holly Beck, RLS, EIT

*President*

Ms. Beck will review any legal descriptions and survey data if necessary. She may be a part of the inspection team at times. Holly may also participate in the preliminary office reviews and perform quality assurance checks on the final report for each facility.

Thomas Weigel, EI

*Engineer*

Mr. Weigel will assist with preliminary office reviews as well as be a part of the inspection team. He will assist with the preparation of the final report for each facility and may be the primary author for some of the facilities. Tom will also perform quality assurance checks on work done by other team members.

Kirby Rudolph

*Engineering Technician*

Mr. Rudolph will be a part of the inspection team, and will also help with any survey related research that may be needed for a facility.

Patti Ivey

*Engineering Technician*

Ms. Ivey may help with the field inspection for some of the facilities.

Hours:

The following is an estimate of the number of hours that each individual will work based on the 23 facilities listed in the RFP.

Douglas A. Davidson	440	Hours
Holly Beck	100	Hours
Thomas Weigel	390	Hours
Kirby Rudolph	320	Hours
Patti Ivey	10	Hours

## Quality Control / Quality Assurance

There will be multiple people who will participate in completing the work for this contract. Mr. Davidson will perform a quality control review of all submittals to ensure uniformity and completeness. Quality Assurance will be performed by a team consisting of Douglas Davidson, Holly Beck and Thomas Weigel. The approach will be that each section of a submittal will be reviewed by a member of the team who was not the original author of that section. This will ensure that at least two individuals review everything and will help eliminate situations where an author reads what they meant to write instead of what was actually written. By following this procedure, we will be able to create uniform reports with negligible typographical or formatting errors.

## Cost Proposal

The following hourly rates will be used for the contract. Day to day supplies have been included in the overhead number. Mileage will be billed at the current IRS rate.

	Payroll	Overhead	Profit	Total	Anticipated Hours*	% of Time Devoted to Project
Holly Beck	\$ 36.00	\$ 72.00	\$ 12.96	\$ 120.96	100	4.9%
Douglas Davidson	\$ 31.73	\$ 63.46	\$ 11.42	\$ 106.61	440	21.6%
Thomas Weigel	\$ 21.63	\$ 43.26	\$ 7.79	\$ 72.68	390	19.1%
Kirby Rudolph (Regular Time)	\$ 16.00	\$ 32.00	\$ 5.76	\$ 53.76	270	13.2%
Kirby Rudolph (Overtime)	\$ 24.00	\$ 32.00	\$ 6.72	\$ 62.72	50	
Patti Ivey (Regular Time)	\$ 14.00	\$ 28.00	\$ 5.04	\$ 47.04	10	2.0%
Patti Ivey (Overtime)	\$ 21.00	\$ 28.00	\$ 5.88	\$ 54.88	0	

\*Anticipated hours are based on 23 facilities as stated in the RFP

## Company Resumes

# Douglas Davidson, PE, LSIT

## EDUCATION

2001 Bachelor of Science – Agricultural & Biosystems Engineering  
North Dakota State University, Fargo, ND

## REGISTRATION

2008 Land Surveyor-in-Training: North Dakota  
2005 Professional Engineer: North Dakota

## EXPERIENCE

2009 – Present Project Engineer Holly Beck Surveying & Engineering, LLC – Bismarck, ND  
Work with the transportation industry and land surveying. Conduct project contract administration, construction inspection, NEPA environmental documentation, preliminary engineering documents and engineering plans as well as preliminary, construction and property surveys.

2001 – 2009 Project Engineer DeHaan, Grabs & Associates, LLC – Mandan, ND  
Worked with the construction of livestock production and waste containment facilities. Responsibilities included site visits, preliminary and construction surveys, facility designs and permit applications, inspections and certifications. This included designing facilities to meet applicable siting rules.

## SPECIAL SKILLS

- Reading and interpreting engineering plans
- Experience with siting and zoning regulations
- Experienced with GPS and Total Station Survey Equipment & Techniques
- Familiar with NEPA documentation requirements
- Proficient with Microsoft Office Suite, AutoCad, Eagle Point, Microstation and Geopak Software

## REPRESENTATIVE PROJECTS

- *NDDOT Project SHE-4-023(012)056* – Project Engineer - Project involved the preliminary survey, preliminary engineering and environmental documentation, and final plan set for the design of turning lanes at six intersections on ND Highway 23. Contract administration and inspection will also be provided.
- *NDDOT Project STM-SNH-4-023(009)056* – Project Engineer – This project and its tied sister project involves contract administration and inspection of 46 miles of thin lift overlay on ND Highway 23.
- *Schmidt Feedlot* – Project Engineer – Project involved completing the design, ND Department of Health permit application, construction inspection, and certification for a 999 head beef feedlot near Center, ND.

## ORGANIZATIONS

- American Society of Agricultural and Biological Engineers
- North Dakota Society of Professional Land Surveyors

## CERTIFICATIONS

North Dakota Department of Transportation – Materials and Research

- Asphalt Pavement Inspector
- Asphalt Mix Tester
- Aggregate Tester
- Soils Tester

OSHA

- Completed Construction Safety & Health Course

# Holly Beck, RLS, EIT

## EDUCATION

1979 Bachelor of Science - Geology  
University of North Dakota, Grand Forks

## REGISTRATION

2004 Engineer-in-Training: North Dakota  
2002 Registered Land Surveyor: North Dakota

## EXPERIENCE

2003 – Present President Holly Beck Surveying & Engineering, LLC – Bismarck, ND  
Work with land owners and the transportation industry. Conduct property and construction surveys as well as contract administration and construction inspection and testing.

1982 – 2003 Surveyor/Technician Wold Engineering Company – Bismarck, ND  
Conduct preliminary, construction and property surveys, as well as construction inspection.

## SPECIAL SKILLS

- Interpreting and writing legal property descriptions
- Reading and interpreting engineering plans
- Skilled with GPS and Total Station Survey Equipment and Techniques
- Experienced with calculating and placing property corners
- Proficient with Microsoft Office Suite, AutoCad, Eagle Point, Microstation and Geopak Software

## REPRESENTATIVE PROJECTS

- *SS-7-040(012)000* – Project involved the preliminary ground survey for ND Highway 40, to accompany and verify the aerial photogrammetry provided by the NDDOT.
- *Van Beek vs. Umber Disputed Property Corner Survey* – Project involved determining the proper location of and setting a property corner in Emmons County, ND. This project ultimately went to court to settle the dispute. Ms. Beck testified in this matter and the court upheld all of her work and documentation.
- *NDDOT Project STN-4-083(080)920* – Project involved the construction survey of multi-use path including the construction of new bridge, in Minot, ND.

## ORGANIZATIONS

- North Dakota Society of Professional Land Surveyors – President - 2010
- Missouri River Chapter – ND Society of Professional Land Surveyors – President – 2004-2007

## CERTIFICATIONS

North Dakota Department of Transportation – Materials and Research

- Asphalt Pavement Inspector
- Asphalt Mix Tester
- Aggregate Tester

OSHA

- Completed Construction Safety & Health Course

# Thomas Weigel, EI

## EDUCATION

2010 Bachelor of Science - Civil Engineering  
University of North Dakota, Grand Forks

## REGISTRATION

2010 Engineering Intern: North Dakota

## EXPERIENCE

2010 – Present Project Engineer Holly Beck Surveying & Engineering, LLC – Bismarck, ND  
Work with the transportation industry to provide contract administration, construction inspection, and preliminary and construction surveying.

2007 – 2010 Engineering Technician Holly Beck Surveying & Engineering, LLC – Bismarck, ND  
Assisted with preliminary and construction surveys and project inspection.

## SPECIAL SKILLS

- Reading and interpreting engineering plans
- Experienced with Microsoft Office Suite, AutoCad, Civil 3-D, HEC-HMS, HEC-RAS, Water Gems, WaterCad and EaglePoint Software
- Experienced with GPS and Total Station Survey Equipment & Techniques

## REPRESENTATIVE PROJECTS

- *HB-08-165* – Engineering Technician – Responsibilities included construction staking for an expansion of the city of Hazelton's potable water system.
- *NDDOT Project SS-4-003(010)149* – Engineering Technician – Responsibilities included the inspection and quantity calculations for a chip seal project on ND Highway 3 south of Harvey, ND.
- *Jim Ireland Subdivision* – Engineering Technician – Responsibilities included the preliminary layout of a subdivision along Lake Sakakawea south of Garrison.
- *Transmission Line Senior Design Project* – Team Member – Responsibilities included analyzing conductor stresses and spotting towers within a transmission line corridor.

## ORGANIZATIONS

- North Dakota Society of Professional Engineers

# Kirby Rudolph, Engineer Technician

## EDUCATION

2000 High School Diploma  
Ashley High School, Ashley, ND

## EXPERIENCE

2006 – Present Engineering Technician Holly Beck Surveying & Engineering, LLC  
Work with land owners and the transportation industry to provide preliminary, construction and property surveys and construction inspection.

2001 – 2006 Laborer Lipp Drywall  
Worked as drywall installer for homes and businesses in central North Dakota.

## SPECIAL SKILLS

- Reading and interpreting Engineering Plans
- Experienced at researching and preparing corner records
- Experienced with GPS and Total Station Survey Equipment & Techniques
- Experienced with Microsoft Office Suite, AutoCad and EaglePoint Software

## REPRESENTATIVE PROJECTS

- *NDDOT Project AC-HPU-CMU-4-083(078)201* – Engineering Technician – Responsibilities included the construction staking of earthwork, curb and gutter, concrete pavement, storm sewers, sanitary sewers and water lines for the reconstruction of North Broadway in Minot, ND.
- *NDDOT Project ROM-0300(099)* – Engineering Technician – Responsibilities included field inspection, sample gathering, and recordkeeping for the construction administration of this regravelling project located in Mountrail, Ward, McLean and McHenry Counties.
- *NDDOT Project SS-2-011(020)035* – Engineering Technician – Responsibilities included acting as crew chief for the construction staking of new curb and sidewalk on ND Highway 11 through Ashley, ND.

## ORGANIZATIONS

- North Dakota Society of Professional Land Surveyors

## CERTIFICATIONS

North Dakota Department of Transportation – Materials and Research

- Asphalt Inspector
- Asphalt Mix Controller
- Asphalt Mix Tester
- Aggregate Tester
- Soils Tester

NDSCS

- Traffic Control Supervisor

OSHA

- Completed Construction Safety & Health Course

# Patti Ivey, Engineer Technician

## EDUCATION

1977 Bachelor of Arts - Chemistry  
Dickinson State University, Dickinson, ND

## EXPERIENCE

2009 – Present Engineering Technician Holly Beck Surveying & Engineering, LLC  
Work with the transportation industry to provide construction inspection and testing.

1999 – 2006 Owner Ivey Screen Printing  
Owned and operated successful screen printing business in Bismarck, ND.

1985 – 1994 Supervisor Bureau of Reclamation Soils Laboratory & Field Services

1983 – 1985 Technician Bureau of Reclamation Soils Laboratory & Field Services

## SPECIAL SKILLS

- Analyzing soil and water samples for physical and chemical properties
- Developing detailed standard operating procedures and quality control procedures and manuals
- Training in mediation
- Experienced with Microsoft Office Suite and Corel Draw Software

## REPRESENTATIVE PROJECTS

- *NDDOT Project STM-SNH-4-023(010)080* – Engineering Technician - Responsibilities included running lab tests on aggregate and recording the results.

## ORGANIZATIONS

- Charity Lutheran Church Evangelism Team

## CERTIFICATIONS

North Dakota Department of Transportation – Materials and Research

- Aggregate Tester