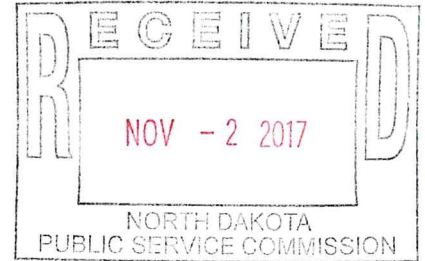




September 18, 2017

Jerry Lein
Public Utility Analyst
North Dakota Public Service Commission
600 E. Boulevard Ave. Dept. 408
Bismarck, ND 58505-0480
(701)328-4153



Subject: NDPS Construction Top Soil Removal Inspection No. 2 Report PU-13-840 Ulteig Project No. R15.01328
MDU 345 KV Interconnection Substation Ellendale, North Dakota

Dear Ms. Cardwell :

Enclosed please find the referenced **Top Soil Removal Inspection No. 2** Report. If you have any questions, please don't hesitate to contact our office.

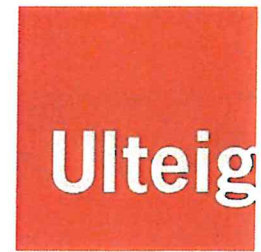
The contractor has followed the PSC requirements for removal and stock piling the top soil for the project. The attached document is signed and sealed.

Sincerely,

Robert J. Youness, PE
Senior Engineer
bob.youness@ulteig.com | 701-355-2343

102 **PU-13-840** Filed: 11/2/2017 Pages: 8
Top Soil Removal Inspection report No. 2

Ulteig Engineers, Inc.
Robert Youness, PE



MDU 345 kV Interconnection Substation at Ellendale, North Dakota TOPSOIL REMOVAL INSPECTION Report No. 2

Inspector Name:

Robert J. Youness (Ulteig) – bob.youness@ulteig.com, Mobile: (913)481-6700

Weather:

Cloudy: 78 degrees F

Job Site Attendies:

Robert J. Youness

GENERAL INFORMATION

Inspection Date:

9-16-2017

Precipitation:

0.00

**Job Site Construction Meeting
Top Soil Removal Storage and Replacement**

Report Number: **PU-13-840**

Ulteig Project Number: **R15.01328**

Follow up to verify Top Soil Stock Piled - Jobsite Inspection:

In accordance with the executed contract dated January 5, 2016 - Ulteig attended a job site meeting with the contractor on September 16, 2017. Ulteig reviewed the construction conditions of the job site and for verification that the TOPSOIL was properly removed and stored at the predetermined locations identified for the project. The contractor is required to segregate the top soil and store the materials on a location mutually agreed to with the adjacent land owner. Since this project is primarily a grading project for the substation, it is anticipated that all the subsoil will be utilized on site and top soil will be used by the adjacent land owner.

The top soil is stockpiled in an area that will not be effected by construction activities.

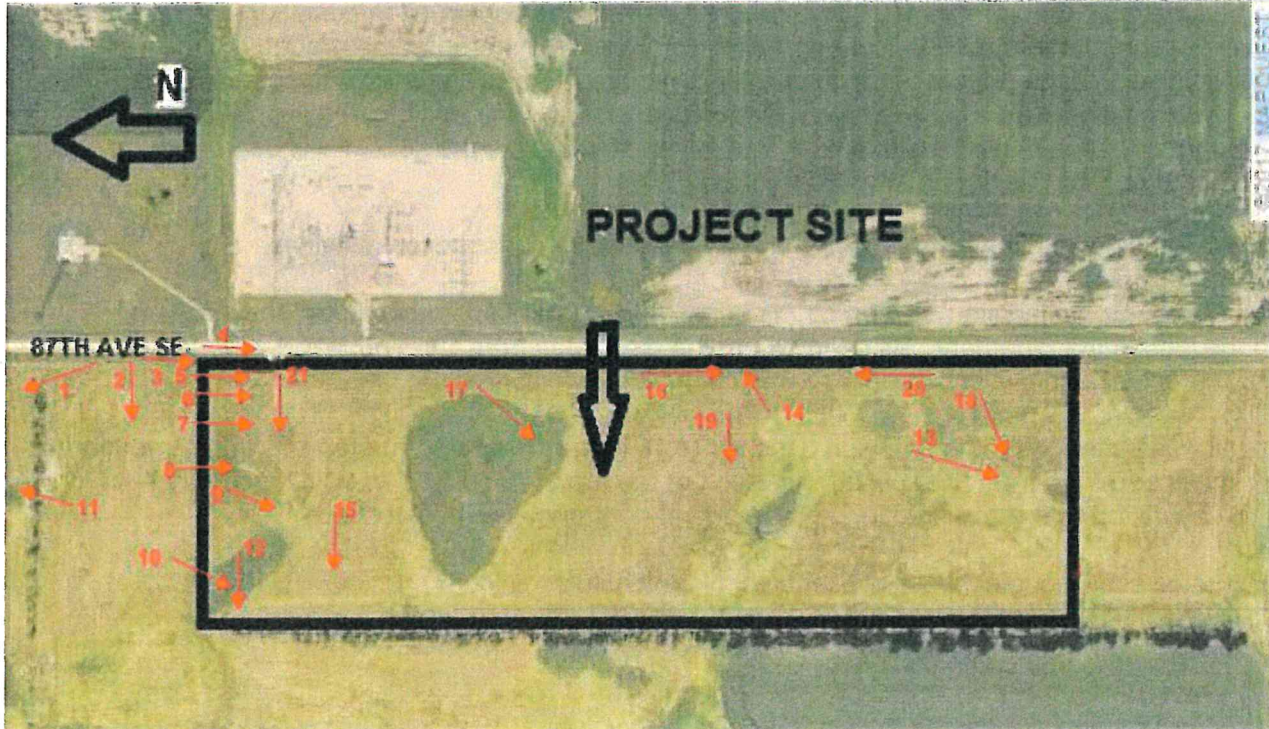
Communications at the jobsite between Mr. Youness and project construction personnel will be through the jobsite management. All information and discusses from Mr. Youness will be to Tony Schantz and Tyler Szarkowski in order to avoid confusion or misdirection.

The topsoil was estimated to be between 8 inches to 18 inches in depth. The top soil was removed and stockpiled separate from the subsoil. A portion of the top soil could be used within the right of way for areas disturbed by construction and around the entrances to the jobsite.

The substation site is located west of Ellendale, North Dakota:



Location Map- Exhibit 1
Ellendale Substation Project
PU13-840



SUBSTATION SITE
Arrows show direction of Photos
Exhibit #2
87TH Avenue SE



**The Stock Pile Location Site
North of Project
Photo 1**



**NE Property Corner
Photo 2 Looking West
Along Existing Power ROW**



**NE Property Corner
Photo 3 Looking South
Along Existing 87th Ave. SE ROW**



**NE Drive Entrance
Photo 4 Looking SW
Constructed Conditions**



**NE Drive Entrance
Photo 5 Looking S
Constructed Conditions**



**NE Drive Entrance
Photo 6 Looking SW
Constructed Conditions**



**NE Property Corner
Photo 7 Looking SW "Fill Material"
Site on the Right**



**Mid. N Property Line
Photo 8 Looking SW
Along Power Line ROW Line**



**Mid. N Property Line
Photo 9 Looking SW "Site Fill"
Along Power Line ROW Line**



**SW Property Corner
Photo 10 Looking SE
Along West Property Line**



**Stock Pile of Top Soil
Photo 11 Located on Private Land**



**NW Property Corner "Fill"
Photo 12 Looking West**



**Photo 13 Site Compaction
South PL Looking South**



**Photo 14 East Prop. Line
Erosion Control at Road ROW**



**Photo 15 North Prop. Line
Erosion Control**



**Photo 16 Road ROW Looking South
South Entrance Drive**



**Photo 17 Site Compaction
Looking SW from N Drive**



**Photo 18 SE Property Corner
Looking West
Along S. Property Line**



**Photo 19 Site Compaction
Looking W from S Drive**



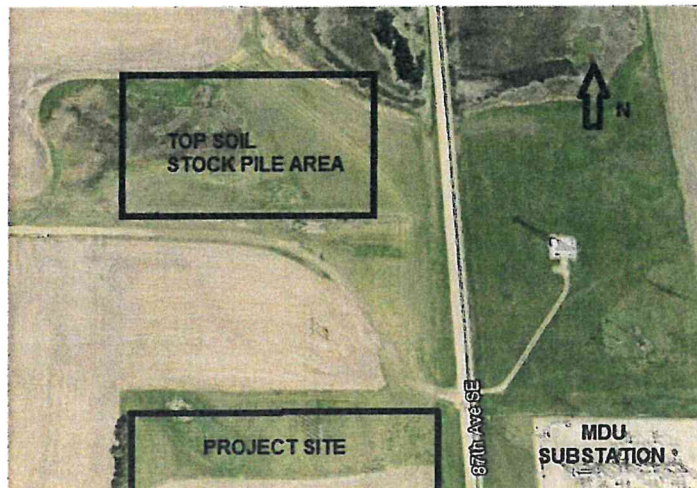
**Photo 20 SE Property Corner
Looking North**



**Photo 21 Access Drive to
Stock Pile Area
Requires revegetation after Construction**



Photo 1 Top Soil Stock Pile



**PROPOSED TOP SOIL STOCK PILE AREA
Exhibit #3
West of 87TH Avenue SE**

As previously discussed, MDU has reached an agreement to stock pile the top soil from the project site on the adjacent property. Since the top soil will not be needed for the substation project, the owner of the land will use the top soil to raise low lying areas on his farm.

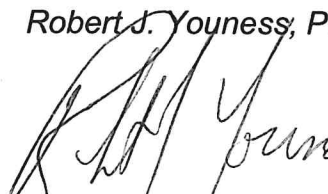
The actual construction work is located on the project site, which is owned by MDU. Since two access drives are located off of 87th Avenue SE, the contractor will be responsible for grading and seeding areas disturbed within the right of way. Also, the construction drive to the stock piled top soil will need to be vegetated i.e. no top soil was removed from the construction drive.

Inspection Requirements:

Inspector per this report, has perform and documented TOPSOIL REMOVAL INSPECTION(S) during the topsoil removal phase(s) of the project and verified that topsoil has been properly removed and kept segregated from subsoil. Per this report, the inspector has provided and maintain personnel at this construction site to verify that the topsoil and subsoil removal and segregation activities were properly completed in compliance with the Commission's Order.

In accordance with the executed contract between Ulteig and the Public Service Commission, dated April 20, 2016, all reports must be approved and signed by the lead project manager responsible for this project.

Robert J. Youness, PE


Ulteig Engineers, Inc.
1412 Basin Avenue
Bismarck, ND 58504

