



GREAT RIVER
ENERGY®

A Touchstone Energy® Cooperative

12300 Elm Creek Boulevard • Maple Grove, Minnesota 55369-4718 • 763-445-5000 • 763-445-5050

24 September 2014

Dr. Burl W. Haar
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, MN 55101

RE: Compliance Filing – Savanna 115 kV Project
Docket ET-2, E015/TL-10-1307
Transmission Line Structures 18 through 33
(Final Portion of Cromwell City to Cromwell Segment)
Plan and Profile
Route Alignment Maps
Archaeological Survey
DNR Documentation

Dear Dr. Haar:

On March 7, 2012, the Commission granted Great River Energy and Minnesota Power a route permit for the Savanna 115 kV Project in St. Louis and Carlton Counties, Minnesota. Great River Energy respectfully submits (via e-filing) the following for transmission line Structures 18 through Structure 33 in the Cromwell City to Cromwell Segment:

- As required by Permit Condition 4.1, a plan and profile of the right-of-way and alignment maps for the transmission line. The Cromwell City to Cromwell segment of the project is double circuit, single wood pole structures with guys and anchors in some areas. The individual structure heights are indicated on the plan and profile. Please note that the alignment between Structures 27 and 30 is outside the permitted route. This alignment was recently proposed by landowners in this particular area and is the subject of a separate minor alteration request that will be filed today.
- As required by Permit Condition 5.3, a Phase I Archaeological Reconnaissance Survey was submitted in the September 13, 2013 plan and profile compliance filing. A Phase I Archaeological Reconnaissance Survey completed for the requested minor alteration area between Structures 27 and 30 is attached.
- As required by Permit Condition 5.4, documentation of consultation with MnDNR on Swan Flight Diverters along the approved route was submitted in the September 13, 2013 plan and profile compliance filing. MnDNR reviewed the requested minor alteration area and indicated no concerns (see attached emails).

Dr. Burl W. Haar
24 September 2014
Page 2

Thank you for your consideration of this matter. Please feel free to give me a call at 763-445-5215 if you have any questions regarding this filing.

Respectfully Submitted,

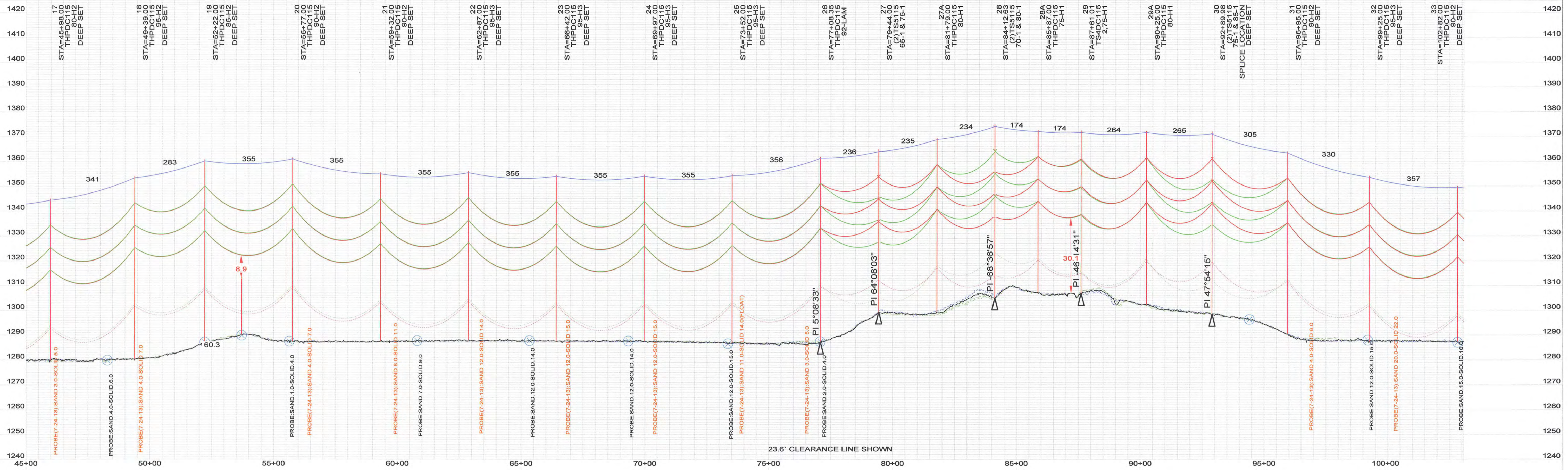
GREAT RIVER ENERGY

A handwritten signature in cursive script that reads "Marsha Parlow".

Marsha Parlow
Transmission Permitting Analyst

Attachments

c: Bill Storm, Department of Commerce, DOC
Michelle Lommel, Chuck Lukkarila, GRE



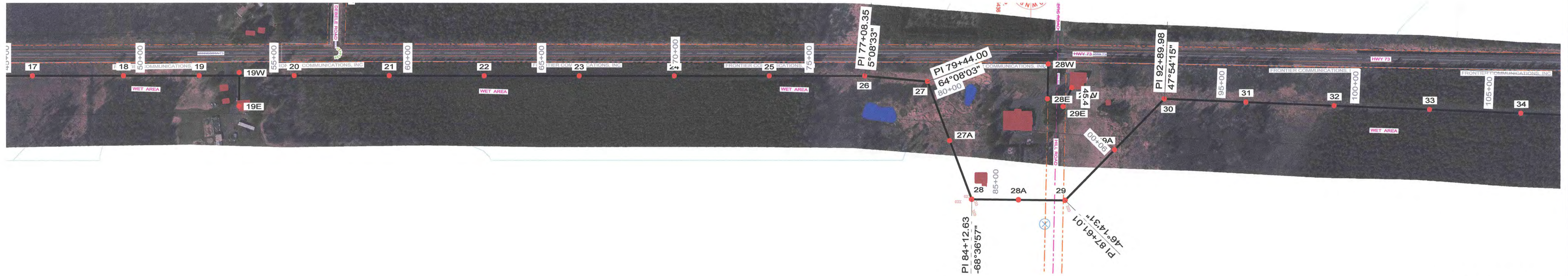
12 TO 27
 SW 0.528-48 OPGW, -40 DEG F INITIAL, 4137# DT, 342' RS
 69KV COND, 477 ACSR 26/7, 212 DEG F FINAL, 4992# DT, 340' RS
 115KV COND, 477 ACSS 26/7, 392 DEG F FINAL, 4943# DT, 342' RS

27-28
 SW 0.528-48 OPGW, -40 DEG F INITIAL, 3589# DT, 241' RS
 69KV COND, 477 ACSR 26/7, 212 DEG F FINAL, 4337# DT, 235' RS
 115KV COND, 477 ACSS 26/7, 392 DEG F FINAL, 4340# DT, 235' RS

28 TO 30
 SW 0.528-48 OPGW, -40 DEG F INITIAL, 3563# DT, 235' RS
 69KV COND, 477 ACSR 26/7, 212 DEG F FINAL, 4337# DT, 235' RS
 115KV COND, 477 ACSS 26/7, 392 DEG F FINAL, 4335# DT, 234' RS

30-109
 SW 0.528-48 OPGW, -40 DEG F INITIAL, 4132# DT, 339' RS
 69KV COND, 477 ACSR 26/7, 212 DEG F FINAL, 4992# DT, 339' RS
 115KV COND, 477 ACSS 26/7, 392 DEG F FINAL, 4992# DT, 339' RS

30 TO 107B/RL-1A
 69KV COND, 477 ACSR 26/7, 212 DEG F FINAL, 5001# DT, 340' RS



ISSUED FOR CONSTRUCTION
 09/16/14

CERTIFICATION
 I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 SIGNATURE: *[Signature]* PRINTED NAME: STEVEN P. THOMPSON
 DATE: 9/16/14 LICENSE NO.: 26301



REV 0 09-16-14 ISSUED FOR CONSTRUCTION REVISIONS

APPROVALS	
DRAWN BY: AMB	8/13
DESIGN BY: AMB, CMA	8/13
CHECKED BY: CMA	8/13
APPROVED BY: SPT	8/13

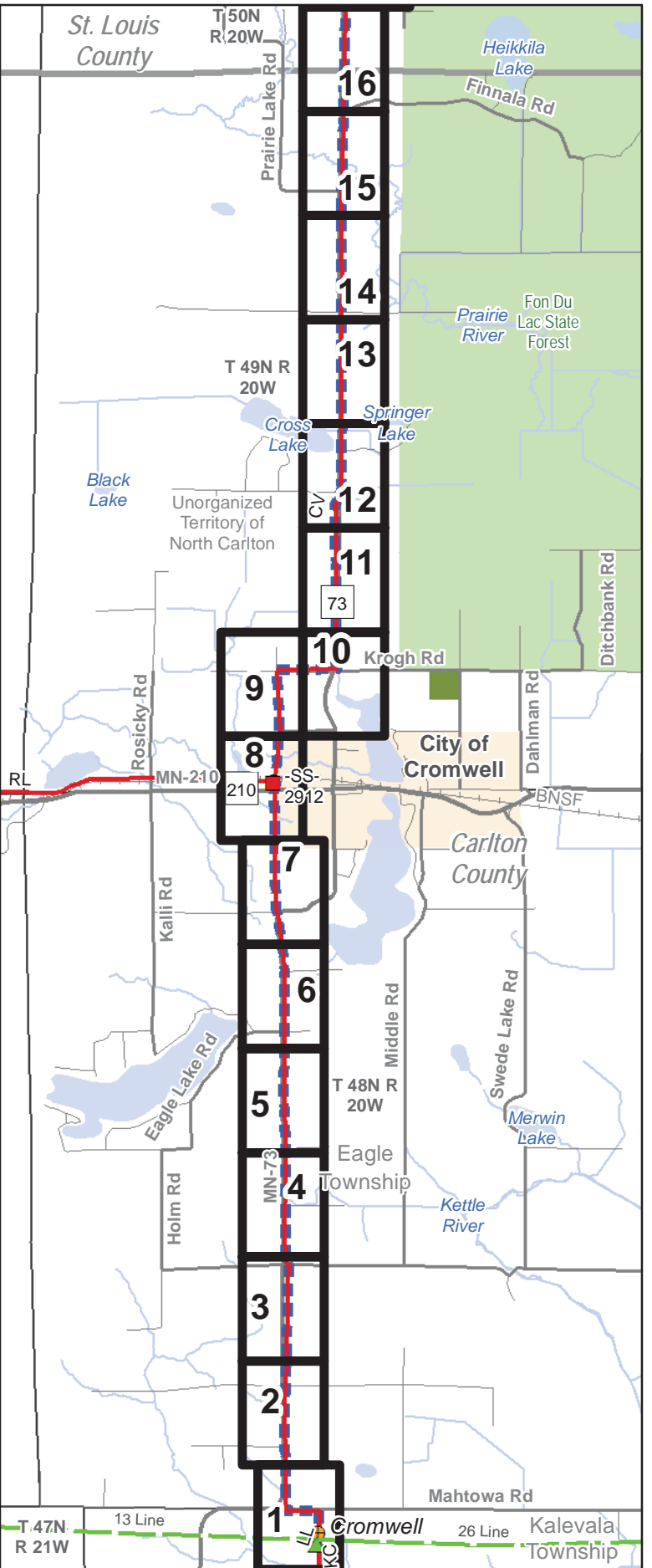
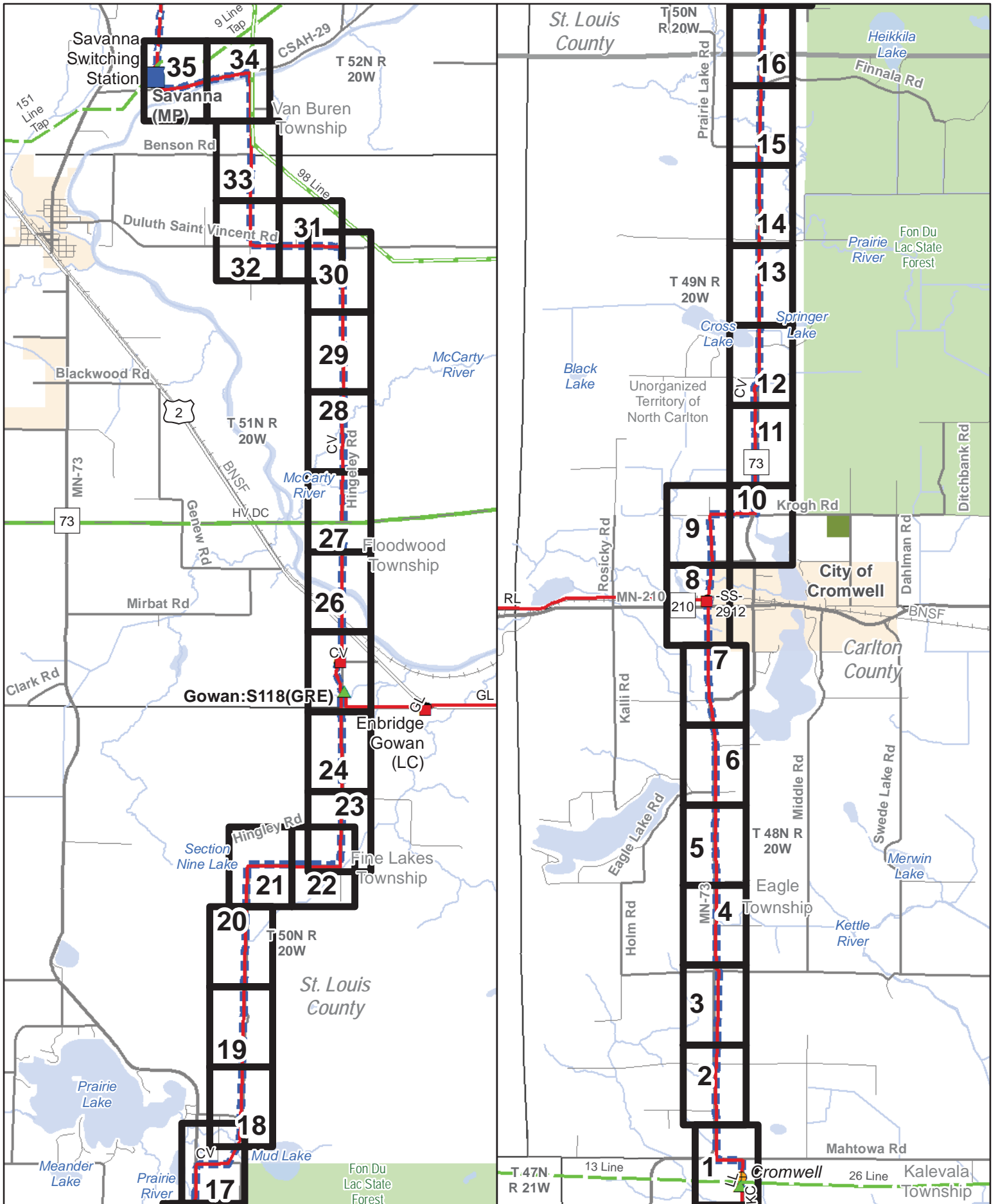
DESIGN DATA	
69 KV CONDUCTOR: 477 ACSR 26/7	
115 KV CONDUCTOR: 477 ACSS 26/7	
DESIGN TENSION: SEE STAKING SHEET	
RULING SPAN: SEE STAKING SHEET	
OPGW: AC-64-528-48	
SHIELDWIRE: 3/8" HSS	
DESIGN TENSION: SEE STAKING SHEET	
RULING SPAN: SEE STAKING SHEET	



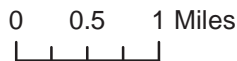
CROMWELL TO SAVANNA
 115KV TRANSMISSION LINE
 69KV TRANSMISSION LINE



DWG. NO. LCCSX-91D
 REVISION: 0
 SHEET 3 OF 23



- Savannah Site
- Proposed 115 kV Transmission Line Route



Key Map

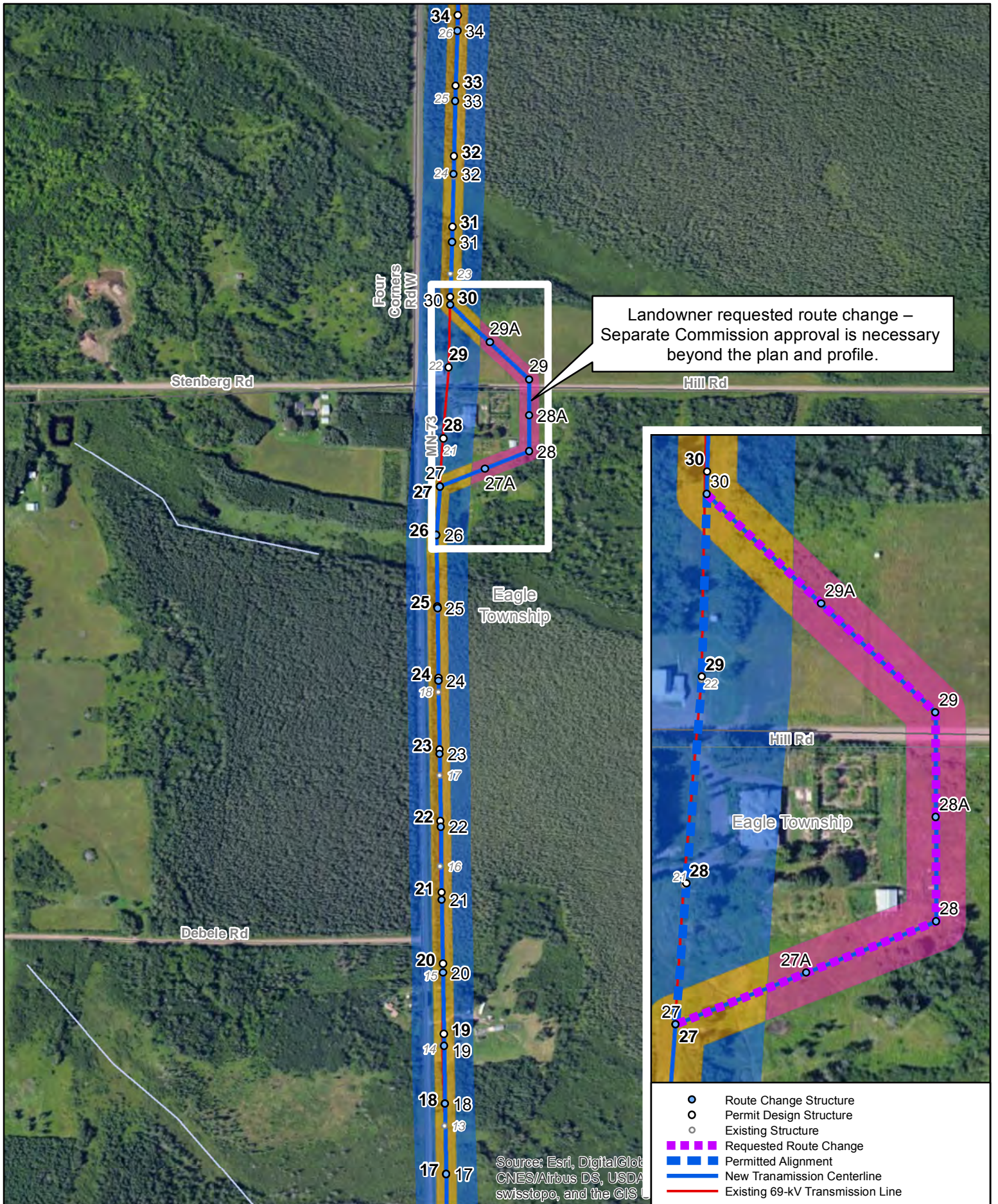
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Updated: 4/7/2014

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GIS data sources vary from MNDNR, MNDOT, MNGEO, and Great River Energy. Parcel Information from St. Louis County 2010 Aerial Photography from USDA Farm Service Agency (FSA) through the MNGEO WMS Data Server



Source: Esri, DigitalGlobe, CNES/Airbus DS, USDA, swisstopo, and the GIS L

- Great River Energy
- New Transmission Centerline
 - Route Change Structures
 - Existing 69-kV Transmission Line
 - Existing Structure Locations

- Permitted Route (300' width)
- Out of Permitted Area
 - Permitted Route (300' width)
 - Right of Way Area (100' width)
 - Permit Design Structure

- Route Change Structure
- Permit Design Structure
- Existing Structure
- Requested Route Change
- Permitted Alignment
- New Transmission Centerline
- Existing 69-kV Transmission Line

Cromwell Trans Sub to Cromwell Dist Sub Sheet 3
Permitted Route Alignment

0 100 200 Feet

N

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 Updated: 9/24/2014 A Touchstone Energy Cooperative

GIS data sources vary from MNDNR, MNDOT, MNGEO, and Great River Energy. Parcel Information from St. Louis County. Aerial Photography from ESRI Basemap



7699 Anagram Drive
Eden Prairie, MN 55344

PHONE 952-937-5150
FAX 952-937-5822
TOLL FREE 888-937-5150

www.westwoodps.com

August 25, 2014

Marsha Parlow
Transmission Permitting Analyst
Great River Energy
12300 Elm Creek Boulevard
Maple Grove, MN 55369

Re: Addendum to the Phase I Archaeological Reconnaissance Survey of the Proposed Savanna 115 kV Transmission Line, Savanna to Cromwell Segment, St. Louis and Carlton Counties, Minnesota
File R0001186.00

Dear Marsha:

This letter is to serve as an addendum to the report “Phase I Archaeological Reconnaissance Survey of the Proposed Savanna 115 kV Transmission Line, Savanna to Cromwell Segment, St. Louis and Carlton Counties, Minnesota” by Ryan P. Grohnke of Westwood Professional Services Inc. (Westwood), dated May 17, 2013. The entire proposed transmission line rebuild route examined, follows an existing transmission right-of-way and is approximately 29.5 miles in length.

Westwood was retained by Great River Energy to conduct a Phase I Archaeological Reconnaissance Survey consisting of background research, a literature review, and field reconnaissance for the above project. The original survey was conducted in May 2013 in partial fulfillment of review under Section 106 of the National Historic Preservation Act of 1966 (as amended) with the United State Army Corps of Engineers (USACE) serving as federal lead agency.

An alteration to the proposed route was suggested in August 2014. This design change will move the line further from existing buildings and to the side of the buildings opposite the highway. The changes will necessitate five pole locations which had not been previously surveyed. Amanda Gronhovd of 10,000 Lakes Archaeology acted as Principal Investigator for this portion of the project.

On August 24th, 2014, Westwood Cultural Resource Specialist Ryan P. Grohnke and Archaeological Technician Adele S. Murray travelled to the project area to conduct a survey of the new pole structure locations. The five new pole structure locations were examined using subsurface shovel tests. None of the tests contained cultural materials.



Because the survey did not locate any archaeological resources, it is recommended that no further archaeological work is necessary and that the project may proceed as planned.

Westwood stresses that if any construction plans are altered to include areas that were not previously surveyed, these locations should be examined for archaeological resources *prior to construction*. Should archaeological resources be identified during construction activities, work should stop and an archaeologist notified. Further, if human remains are encountered during construction activities, all ground disturbing activity must cease and local law enforcement must be notified. *Minnesota Statute 307.08, the Private Cemeteries Act, prohibits the intentional disturbance of human burials.*

Please contact me if you have any questions.

Sincerely,

WESTWOOD PROFESSIONAL SERVICES

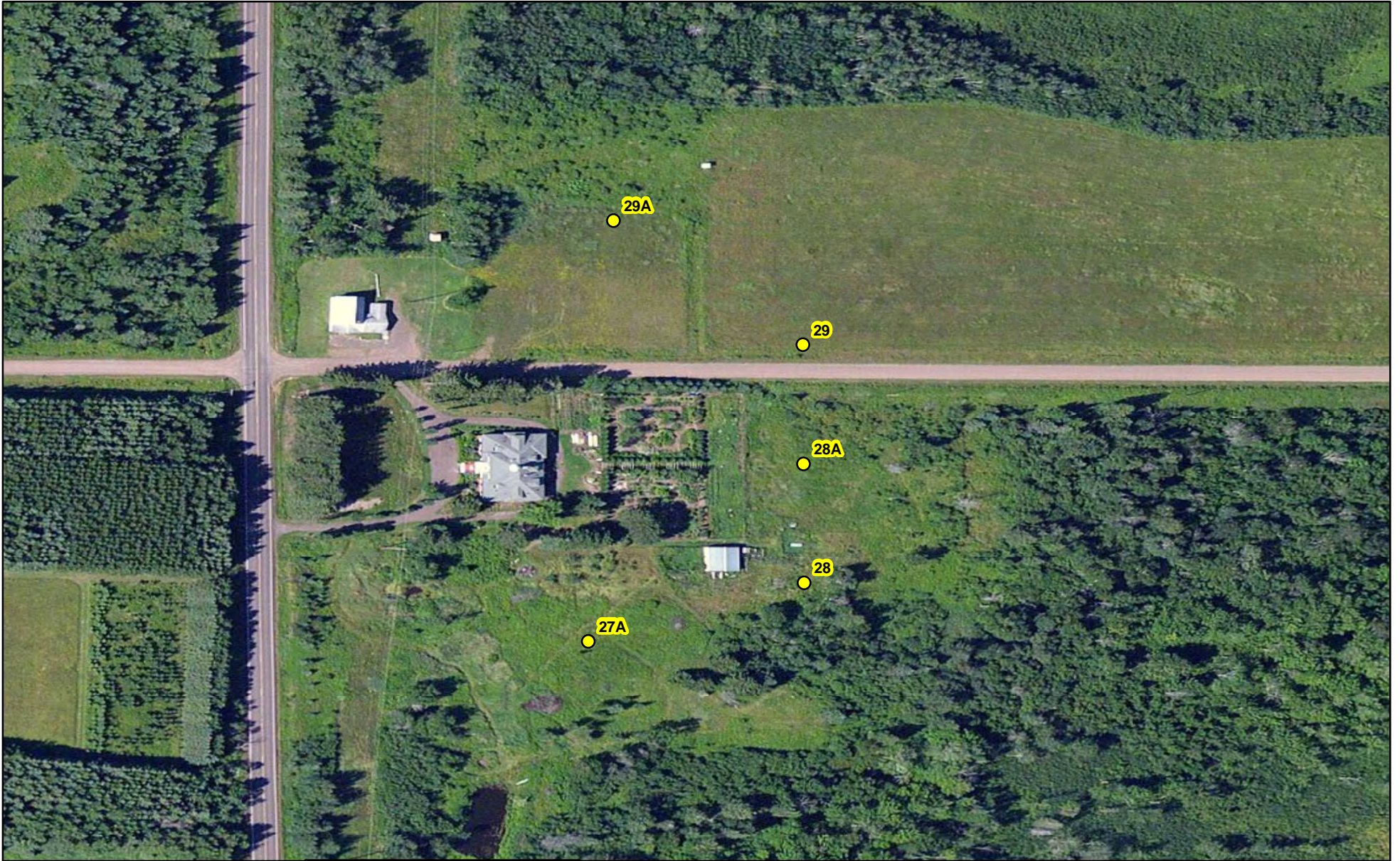


Ryan P. Grohnke
Field Director, Cultural Resources

10,000 LAKES ARCHAEOLOGY, INC.



Amanda Gronhovd, MS, RPA
Principal Investigator



Data Source(s): Westwood (2014); ESRI Data Bank (2007); ESRI WMS World Imagery, National Geographic (accessed 2014)



Westwood Professional Services, Inc.
 7699 Anagram Drive
 Eden Prairie, MN 55344

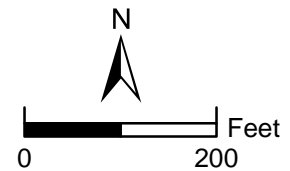
PHONE 952-937-5150
 FAX 952-937-5822
 TOLL FREE 1-888-937-5150

www.westwoodps.com



Legend

- New Pole Locations



Savanna Transmission Project

Carlton County, Minnesota
 New Pole Locations
 August 2014

Parlow, Marsha GRE-MG

From: Marrier, Amy (DNR) [amy.marrier@state.mn.us]
Sent: Monday, September 22, 2014 11:49 AM
To: Parlow, Marsha GRE-MG
Cc: Rokala, Joe A (DNR)
Subject: RE: Question on License #144-065-7969

Hi Marsha,

Being this reroute is not on State lands and has no Public Waters on it, please proceed.

Thank you,
Amy

From: Rokala, Joe A (DNR)
Sent: Monday, September 22, 2014 11:40 AM
To: Marrier, Amy (DNR)
Subject: FW: Question on License #144-065-7969
Importance: High

Hi Amy,

Please follow up on this inquiry.

Thanks, Joe

From: Parlow, Marsha GRE-MG [<mailto:mparlow@GREnergy.com>]
Sent: Monday, September 22, 2014 11:23 AM
To: Sutherland, Jennifer (DNR); Rokala, Joe A (DNR)
Subject: Question on License #144-065-7969
Importance: High

Hello,

We were asked by some landowners to reroute our transmission line around some buildings. There are no water crossings in the area but I am sending you a drawing of the reroute, in case if you have any concerns. If you could, please let me know as soon as possible.

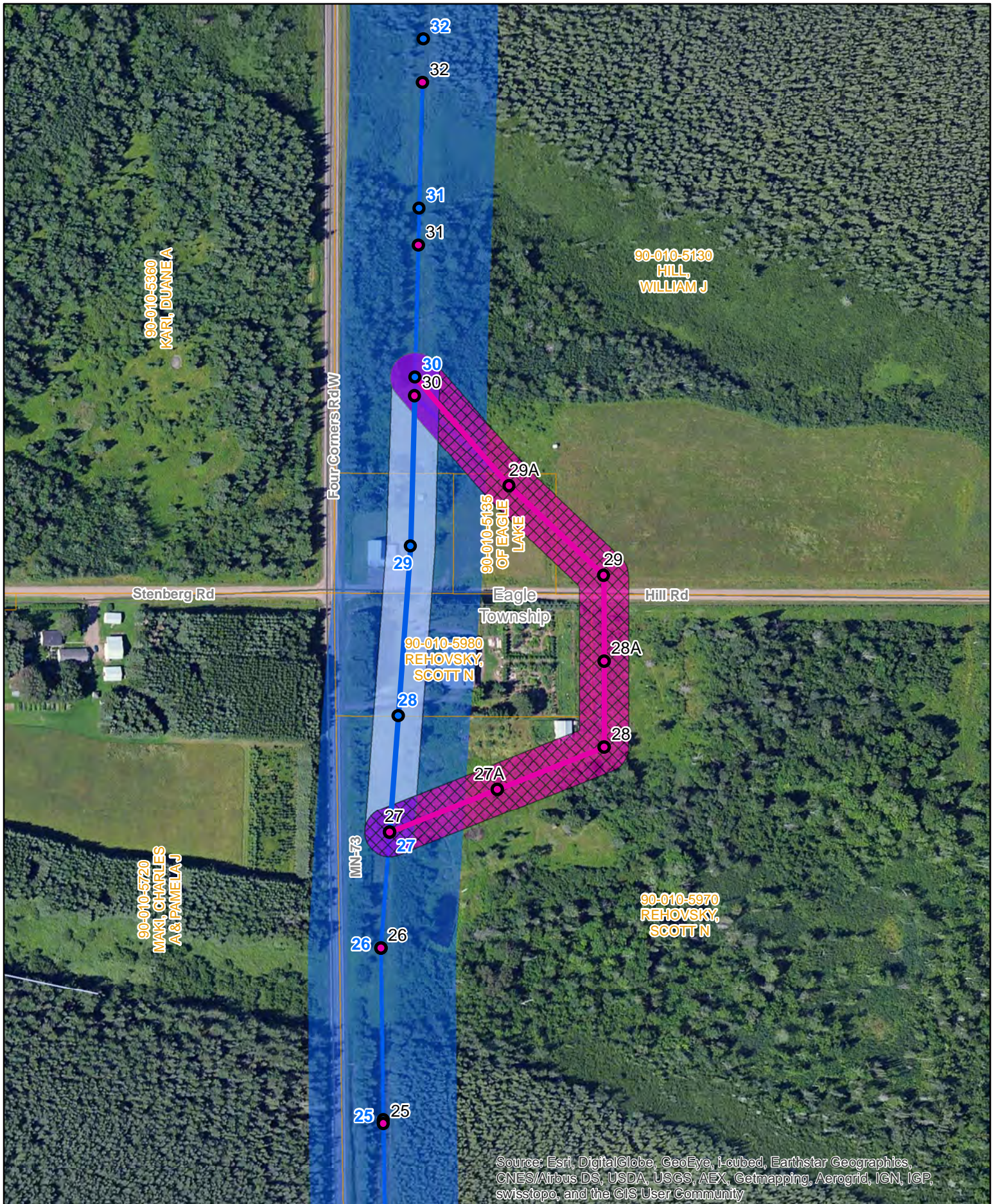
Sincerely,

Marsha Parlow
Transmission Permitting Analyst
Environmental Services
Great River Energy
12300 Elm Creek Boulevard
Maple Grove, MN 55369
Direct: 763-445-5215 | Fax: 763-445-5246 | Cell: 612-345-1212
WWW.GreatRiverEnergy.com

** Please consider the environment before you print this e-mail.*

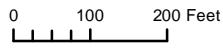
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

- | | | | |
|--|--------------------------------|--|------------------------------|
| | New Alignment Structures | | New 100' Easement |
| | Original Alignment Structures | | Original 100' Easement |
| | New Centerline Alignment | | New Area |
| | Permitted Centerline Alignment | | Overlap Between |
| | | | Permitted Route (300' width) |



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 Updated: 9/19/2014 A Touchstone Energy Cooperative



Requested Route Amendment

GIS data sources vary from MNDNR, MNDOT, MNGEO, and Great River Energy. Parcel Information from St. Louis County. Aerial Photography from ESRI Basemap

Parlow, Marsha GRE-MG

Subject: FW: Follow up

From: Marrier, Amy (DNR) [mailto:amy.marrier@state.mn.us]

Sent: Monday, September 22, 2014 12:05 PM

To: Parlow, Marsha GRE-MG

Subject: FW: Follow up

Hi Marsha,

I would like to restate my email from earlier today.

The state has no concerns with this crossing change as it is not on public land and does not cross public water. Please obtain approval through the private property owners now and in the future unless the crossing is located on public land or crosses public waters.

Thank you Marsha,
Amy