



Memo

TO: Burke Wind, LLC

FROM: Metcalfe Archaeological Consultants, Inc.

DATE: February 4, 2019

**RE: Class II and III Architectural Survey Report Summary
Burke County Wind Energy Center
Burke and Divide Counties, North Dakota**

Introduction and Purpose

Burke Wind, LLC (Burke Wind), an indirect, wholly owned subsidiary of NextEra Energy Resources, LLC, contracted Metcalfe Archaeological Consultants, Inc. (Metcalfe) to conduct an architectural sites survey for the proposed Burke County Wind Energy Center (WEC; the "Project") in Burke County, North Dakota. The Project is located on private land and is not subject to review and compliance within Section 106 of the National Historic Preservation Act. However, the Project will require a Certificate of Site Compatibility from the North Dakota Public Service Commission as per North Dakota Century Code 49-22—Energy Siting Conversion and Transmission Facility Siting Act. The Public Service Commission requires that the State Historical Society of North Dakota (SHSND) review the proposed Project for potential impacts to Cultural Resources. Based on consultation with the SHSND, the objective of the inventory was to locate historical architectural resources within the Study Area, to determine whether those resources qualify for inclusion in the National Register of Historic Places (NRHP), and to assess the direct and/or indirect effect that the undertaking may have on those resources as specified for wind turbine Projects in the North Dakota State Historic Preservation Office (SHPO) *Guidelines Manual for Cultural Resource Inventory Projects*. For purposes of the architectural survey, the "Project Area" is defined as all areas within two miles of the nearest turbine, which encompasses areas in both Burke and Divide Counties, North Dakota, and is based on the locations of turbines within the proposed November 2018 amended 200 megawatt site plan (Amended Site Plan). Refer to Project Area Map.

BISMARCK, NORTH DAKOTA
EAGLE, COLORADO

LAKESWOOD, COLORADO (HQ)
SALT LAKE CITY, UTAH

BOZEMAN, MONTANA
GRAND JUNCTION, COLORADO

MAC@MetcalfeArchaeology.com
MetcalfeArchaeology.com



Metcalf Archaeological Consultants, Inc.

Beyond Compliance

Est. 1980

Field work was conducted from March 7, 2018 to March 17, 2018, by field personnel under the direction of staff architectural historian Emily Sakariassen. The field crew consisted of Project Manager Daan Meens, Ed Stine, and Kim Troendle. At the time of fieldwork, final turbine locations were unknown therefore, a larger Study Area was examined to allow for flexibility in turbine siting. The Study Area was chosen so that it would encompass possible future turbine arrays, including the Amended Site Plan.

Methods

Requirements for a survey of architectural resources for wind turbine projects include a Class I Literature Review, a Class II Reconnaissance Survey of structures, buildings, or architectural sites within a 2-mile radius of each turbine location, and detailed documentation of resources deemed potentially eligible by a professional historian or architectural historian in a Class III report. Prior to mobilization, Metcalf field personnel reviewed the Class I Literature Review provided by Atwell, LLC, and utilized aerial imagery and Project shapefiles to locate any additional potential architectural sites, site leads, or points of interest likely to be encountered within the Project Area. Of the entire Study Area, 305 parcels totaling 39,751 acres were able to be surveyed at a Class III level for Architectural Survey, i.e. land owners were identified as participating in the Project and all architectural resources 45 years or older were able to be recorded and evaluated. The remainder of the Study Area, inaccessible due to lack of non-participating landowner permission, was surveyed at a Class II level for Architectural resources. Documentation of accessible sites was sufficient to permit a preliminary evaluation of significance and eligibility for listing in the NRHP. Ultimately, Metcalf field personnel carried out further investigation of 46 properties that retained sufficient integrity to be deemed potentially eligible.

Results

The Class II survey resulted in preliminary documentation of 230 “Noted, Not Recorded” properties. No site forms were completed for these properties as they were not participating in the Project. Metcalf recorded a total of 44 architectural sites and one architectural site lead (32BKx1007). Metcalf recommends 44 of the sites recorded *not eligible* for inclusion in the NRHP because they are not architecturally or historically significant and/or do not retain sufficient integrity to convey historic character. Due to access limitations, site lead 32BKx1007 remains *unevaluated* at this time; however, existing survey data suggests that the site lacks integrity sufficient for inclusion in the NRHP. As such, Metcalf recommends a finding that no historic properties will be affected by the Project as surveyed, documented and mapped in the Class II and III Architectural Survey Report

Metcalf does suggest a 100-foot buffer around site 32BK235 with regards to any potential direct affects resulting from construction activity. This site is a cemetery and it should be noted that, regardless of NRHP eligibility, it is recommended for avoidance. The Amended Site Plan avoids impacts to this cemetery.

Attachment

Project Area Map

BISMARCK, NORTH DAKOTA
EAGLE, COLORADO

LAKWOOD, COLORADO (HQ)
SALT LAKE CITY, UTAH

BOZEMAN, MONTANA
GRAND JUNCTION, COLORADO

MAC@MetcalfArchaeology.com
MetcalfArchaeology.com

Burke County
Wind Energy Center
Burke County, ND

Metcalf Archaeological
Consultants, Inc.

1:80000



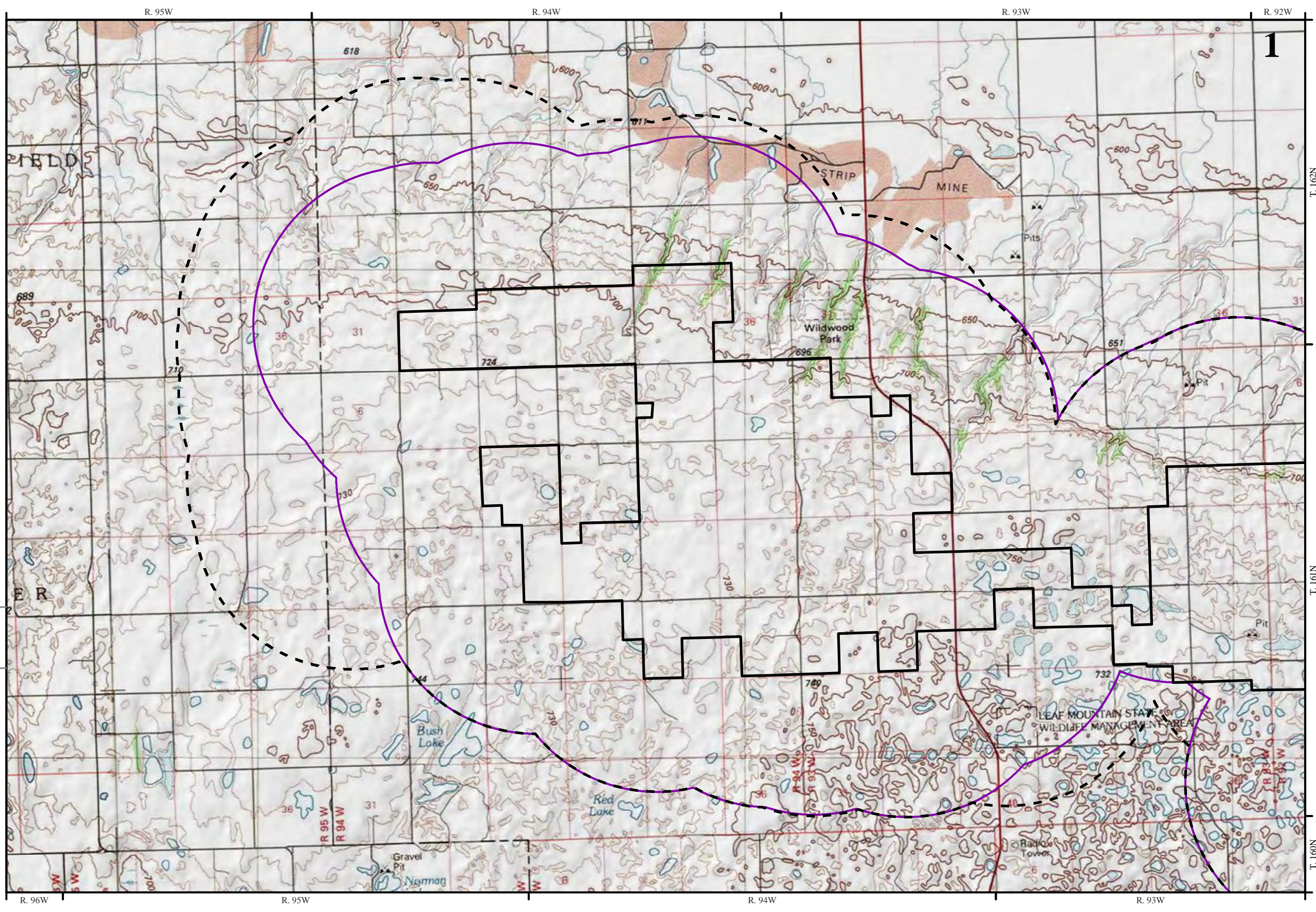
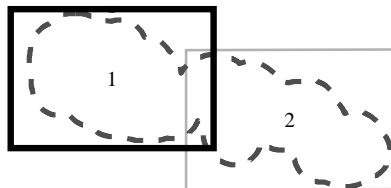
NAD 1983 UTM Zone 13N

- Architectural History Study Area
- Architectural History Project Area
- Burke County Wind Project Area

Quad. Overview
7.5' Quad.

Noonan SE-1949	Columbus SW-1949 PR 1981	Columbus SE-1949 PR 1981	Beaver Lake 1948	Rennie Lake 1949
Hamlet 1974	Bush Lake 1974	Grand View-1947 PR 1978	Grubb Lake 1974	Helde Lake 1974

Project Overview



1

T. 162N

T. 161N

T. 160N

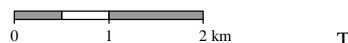
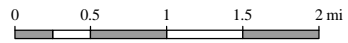
R. 96W R. 95W R. 94W R. 93W

Burke County
Wind Energy Center
Burke County, ND

Metcalf Archaeological
Consultants, Inc.

Regional Configuration Date: 1/18/10

1:80000



NAD 1983 UTM Zone 13N



- Architectural History Study Area
- Architectural History Project Area
- Burke County Wind Project Area

Quad. Overview
7.5' Quad.

Columbus SE-1949 PR 1981	Beaver Lake 1948	Rennie Lake 1949	Woburn 1948
Grand View-1947 PR 1978	Grubb Lake 1974	Helde Lake 1974	Thompson Lake-1974

Project Overview

