

# Surface Geology

## Big Woods NW Quadrangle, North Dakota

Lorraine A. Manz

Kenneth L. Harris

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### QUATERNARY

#### HOLOCENE

##### OAHE FORMATION

Sand, silt, clay, gravel, and organic debris; all postglacial sediment deposited on the landscape; includes river sediment, windblown sediment, lake sediment, and slopewash.

##### Hor Alluvium And Overbank Sediment

Sand, silt, clay and disseminated organic debris; obscurely bedded; dark colored; in many places associated with sand and gravel of older river-channel sediment; commonly more than three feet (1 meter) thick.

##### SHERACK FORMATION

Clay, silty clay, silt, and sand; thinly laminated; clayey in the central part of the lake plain and silty toward the margins; light gray where unoxidized and yellowish gray to olive-brown where oxidized; wood fragments common at the base; offshore, nearshore, shoreline and deltaic sediment deposited south of ice that occupied the Red River lowland during the Emerson Phase of Glacial Lake Agassiz. Only the offshore, nearshore, and shoreline units occur in the map area.

##### Hso Offshore Lake Sediment

Laminated clay, clayey silt, silty clay, silt, and sand; clayey in the central part of the Red River Valley and siltier toward the margins; laminations are generally only a few millimeters thick but some of the silty beds are locally several centimeters thick; bedding deformed in places into folds a few feet high and several feet across; light gray when unoxidized and yellowish gray to olive brown when oxidized; wood fragments common in the lower few feet of the formation; as much as 100 feet (33 meters) thick.

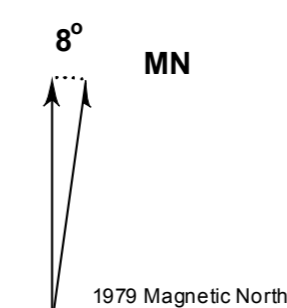
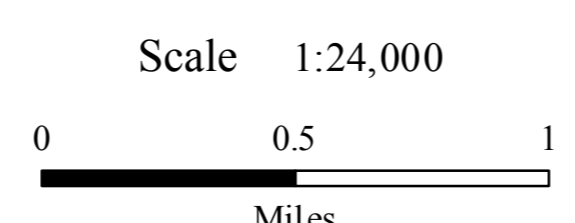
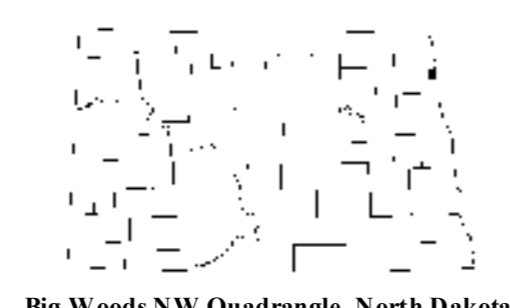
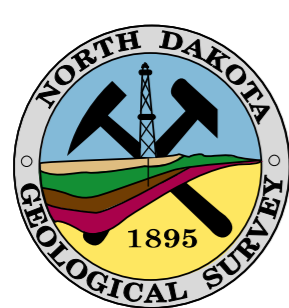
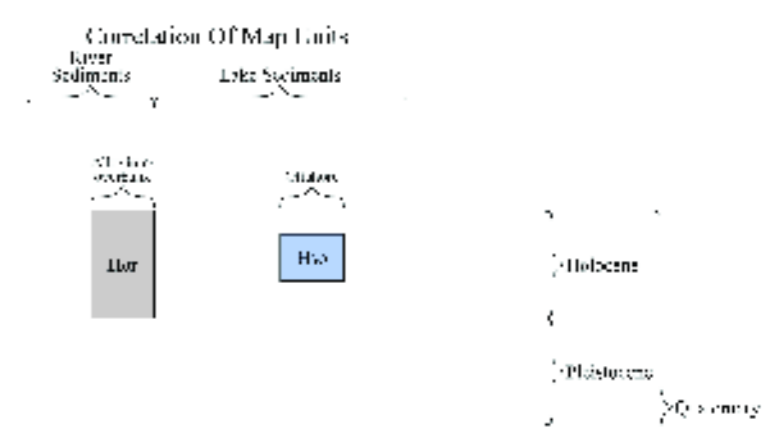
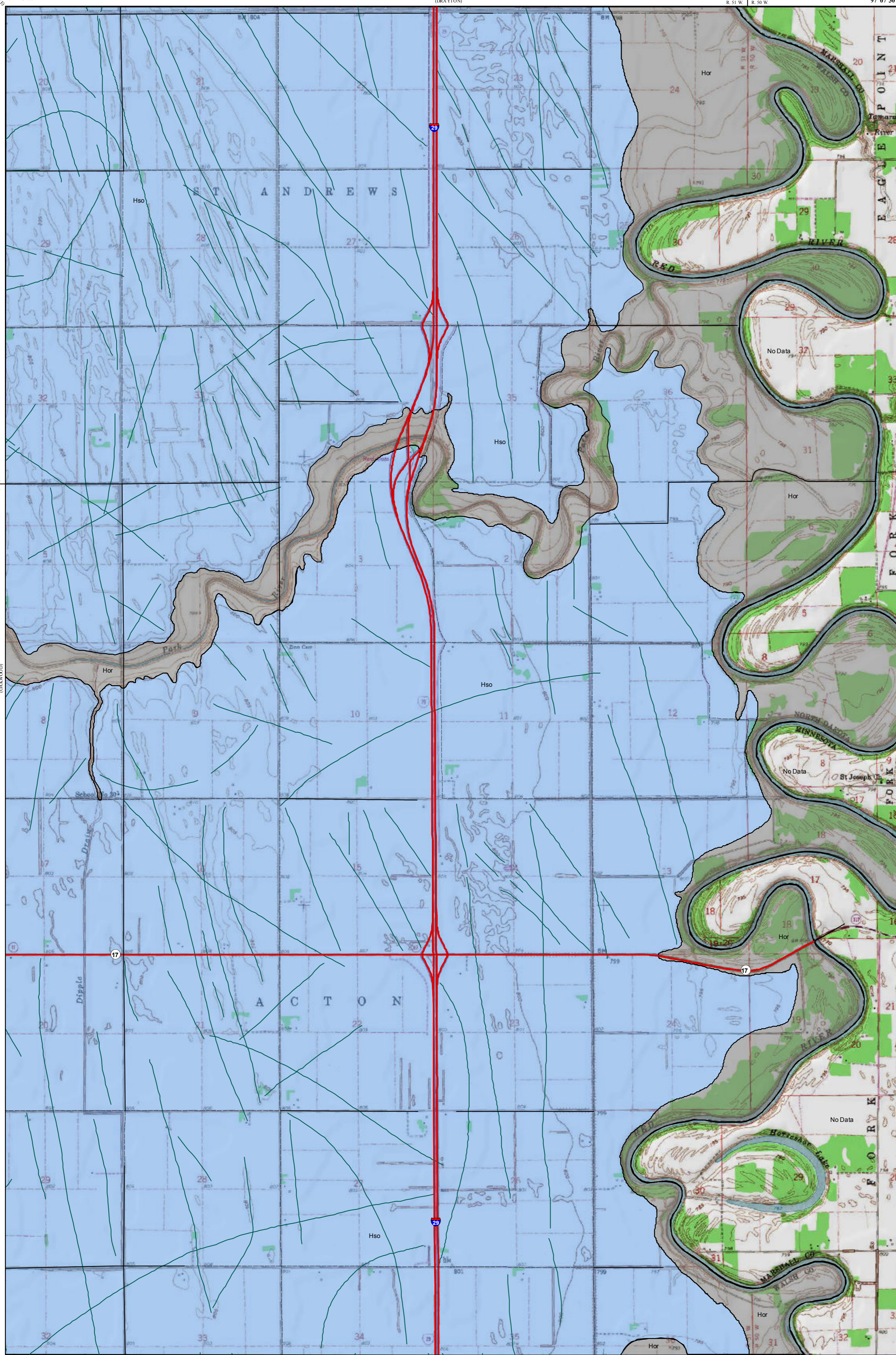
##### No Data

#### Geologic Symbols

- Known contact between two geologic units
- Ice-drag marks  
Established from aerial photographs; line marks the crest of a subtle ridge or the bottom of a subtle trough; located in the Glacial Lake Agassiz basin; interpreted as iceberg drag marks preserved on the lake bed; generally difficult to discern on topographic maps and on the ground.

#### Other Features

- Interstate Highway
- State Highway
- Paved Road
- Gravel Road



Lambert Conformal Conic Projection Standard Parallels 48° 22' 30" and 48° 30' 00"  
1927 North American Datum NGVD 1929  
USGS 7.5 Minute Topographic Map Contour Interval 5 Feet  
County Road Layer (NDGIS HUB) Updated 06/16/2014  
State Federal Road Layer (NDGIS HUB) Updated 10/20/2015