



Build Alternatives Evaluated









Environmental Assessment

The National Environmental Policy Act (NEPA) requires federal agencies to assess the environmental impact of their actions before making decisions.

- Air Quality & Noise
- Constructability
- **Construction Schedule**
- Drainage & Floodplains
- Hazardous Materials
- **Historic Properties**
- Project Cost
- Project Length
- Land Use

- **Trails & Recreational Resources**
- **Right-of-Way**
- Safety
- Socio-Economic Impacts
- Traffic Control & Access
- Water Quality
- Wetland Impacts
- Utility Impacts
- Threatened and Endangered Species









Purpose & Need

NEPA is a decision-making process guided by the Purpose and Need for the project.

Project Purpose

- - the Northshore Drive.
- **Project Needs**

Legislative Mandate – Complete a realignment, bypass project to route farm, school, and residential traffic off the existing Northshore Drive. In 2022 Federal Omnibus Bill.

Accommodate future mobility in North Sioux City by reducing expected roadway congestion along

Fulfill the federally mandated funding requirements for the project: "...to complete a realignment, bypass project on Northshore Drive that would route farm, school, and residential traffic from west of McCook Lake off of the existing Northshore Drive."

Reduce Congestion – Achieve Level of Service B or better on Northshore Drive. Currently Level of Service C and anticipated Level of Service D in 2045.





Evaluation Summary

ALTERNATIVE 1

Advantages:

- Lower construction cost Less ROW acquisition Faster travel time and less delay More likely to be utilized for travel to school due to being fastest route Less impacts to farmland Lower impacts to wetlands
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- More public comments in support

Disadvantages:

 More ROW required from Section 4(f) Dakota Valley Schools property

Build Alternative 1 = Preferred Alternative

Advantages: \bullet

- Less ROW required from Section 4(f)
 - Dakota Valley Schools property

Disadvantages:



ALTERNATIVE 2

Higher construction cost More ROW Acquisition • Slower travel time with more delay Less likely to be utilized for travel to school due to not being fastest route • More impacts to farmland. Greater impacts to wetlands Fewer public comments in support



Baseball Diamond and Soccer Fields 1.68 acres (Permanent Acquisition) 1.37 acres (Temporary Easement)

Dakota Valley Schools Football Practice Field 0.05 acres (Permanent Acquisition) 0.32 acres (Temporary Easement)

Adam's Homestead and Nature Preserve

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Dakota Valley Schools Playground 0.05 acres (Permanent Acquisition) 0.18 acres (Temporary Easement)

Northshore Dr

4(f) Temporary Easement •••• Recreational Trail

Recreational Area

4(f) Permanent Acquistion Impacted Trail

Westshore

Waterstow



Non-Recreational School Property

NORTH

1,000 Feet

Section 4(f) Impacts Map Northshore Drive Realignment Union County, South Dakota









The project would result in a "use" of recreational resources.

There would be temporary easements and permanent acquisition of Dakota Valley Schools property, but not within the contributing recreational features (e.g., soccer fields, baseball diamonds, etc.).

Portions of the McCook Lake/North Sioux City Trail would be temporarily unusable. Trail access would be maintained through phasing and the use of a pedestrian detour.

This figure shows the recreational resources in the project area and anticipated impacts.



Section 4(f) Resources



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Recreational Trail Proposed Trail Detour

Proposed Trail Detour Map Northshore Drive Realignment Union County, South Dakota









Pedestrian and bicycle trail access would be maintained throughout construction.

However, it may be limited at times.

Trail access would be maintained during construction through the use of a detour, temporary trail connections, and/or phasing.

This figure shows the proposed temporary pedestrian detour during construction of the Northshore Drive/Westshore Drive.









Existing Traffic Conditions



LEGEND

XXX(XXX)[XXX]	Π	AM(PM)[Dismissal] Peak Hour Traffic Volumes
x/x/x	Ξ	AM/PM/Dismissal Peak Hour Unsignalized Intersection Level of Service
XXXX	=	Daily Traffic Volumes
STOP	=	Stop Sign
	=	Study Intersection
X	=	Supplemental Intersection
	=	Previously Studied

NOTE: Exit 4 Interchange Previously Studied in the SDDOT 2020 DCIS and currently being further studied as part of the I-29 Corridor.







Future Traffic Volumes





XXX(XXX)[XXX]	=	AM(PM)[Dismissal] Peak Hour Traffic Volumes
XXXX	=	Daily Traffic Volumes
	=	Study Intersection
X	=	Supplemental Intersection
	=	Previously Studied

NOTE: No access form Penrose Drive to the Preferred Alternative is proposed as part of this





Preferred Alternative

84th

Dr.



Alt. 2



Alt. 2







NOTE: No access form Penrose Drive to the Preferred Alternative is proposed as part of this

