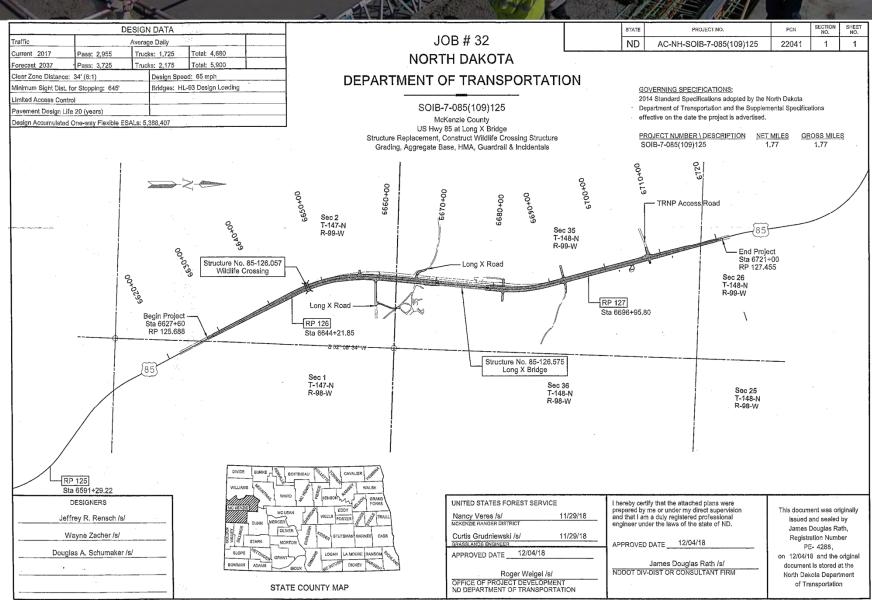


INSTILLING TRUE **CONFIDENCE**. DELIVERING **SUCCESS**.

Long X Overview

Ames Construction







- Width 85 ft
- Total Length 790 ft
- Foundation
 - South Abutment 8ft diameter drilled shafts
 - Intermediate piers Driven H-Pile
 - North Abutment Driven H-Pile
- Superstructure Concrete girders
 - Spans 5 spans at 157 ft/ea (60 ea)





- New roadway approaches and widening
 - ~ 250,000 CY Earthwork
 - ~ 81,000 TON Aggregate Base
 - ~ 30,000 TON Asphalt Pavement
- Foundation
 - H-Pile 104 ea., ~ 15,000 lf Total
 - Drilled Shafts 7 ea., depth ~ 150 lf/ea

Open Design reduces/eliminates height and width restrictions







Example wildlife crossing; designed to accommodate specific local wildlife













*Shaft placed 10/16





*Scheduled for Thursday 10/17

Project Value ~ \$34,000,000

 Bordered by National Park, USFS land, Private land owner

- Crews and manpower
 - Currently have 35 employees; Peak ~ 55; many are local hires

- Malcom Drilling Shaft Foundations
- Knife River Asphalt Paving
- Horizontal Boring jack and bore
- Nehemiah Structural reinforcement steel
- Strata Ready-mix concrete supplier
- Fortera Precast concrete bridge girders and precast arch structure
- Viet Demolition

- Scope planned for completion end of 2019
 - Complete all 6 bridge substructures (Piers and foundations)
 - Set girders for spans 3, 4, 5 over water from temporary causeway
 - 50% earthwork completed
 - South bound widening north of river paved
 - South side "detour" paved and ready for next season to facilitate wildlife crossing construction





- Scope planned for completion end of 2020
 - Complete the bridge
 - Complete wildlife crossing
 - Complete earthwork
 - Complete paving
 - OPEN TO TRAFFIC
 - Begin demolition of old bridge
- Scope planned for 2021
 - Complete demolition
 - Planned final completion July 2021





Thank you