Project Location

Fremont County

Preliminary, Subject to Change
Proposed Project Concept

- Construct two 40’ wide x 1100’ long overflow bridges (shown in purple)
- Realign the levee (shown in green)
- Minimize closure times as much as possible
Conceptual Plan and Profile

- New Pavement
- New Multi-span Bridge
- New Embankment
- Removal of existing Roadbed and levee

Existing Bridge
- Existing Top of Roadway
- Existing Ground Adjacent to Roadway

Remove Existing Levee

Proposed Levee Tie-ins

Preliminary, Subject to Change
Goals

• Provide a functional overflow by March 1, 2020
• Maintain traffic
• Continuous levee protection
## Schedule

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<th>2019</th>
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<th>J</th>
<th>July</th>
<th>A</th>
<th>S</th>
<th>O</th>
<th>Nov</th>
<th>D</th>
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<tbody>
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<td>Preliminary Engineering</td>
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<td>Final Road Design</td>
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<td>Bridge Design</td>
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</table>
Do we care about showing AGC the ROW and Permitting rows?

Narigon, Linda, 5/8/2019
## Preliminary, Subject to Change

### Schedule - continued

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<tr>
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<th>J</th>
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<th>May</th>
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<th>July</th>
<th>A</th>
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<th>O</th>
<th>Nov</th>
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<tbody>
<tr>
<td>2020</td>
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</table>

**Remaining Construction**
Do we care about showing AGC the ROW and Permitting rows?
Narigon, Linda, 5/8/2019
Bridge Information

[Diagram showing bridge and related distances and elevations]

Preliminary, Subject to Change
Bridge Information

- Knowns at this stage of development
  - 7 spans, BTE155 beams, 6 beams per cross-section.
  - Conventional deck with option for full depth precast deck panels.
  - 34” tall F-shape barriers.
  - Stub abutments.
  - Finger plate expansion devices with neoprene troughs.
  - Bridges will be designed for downdrag
Bridge Information

• Unknowns at this stage of development
  – Potential scour depth currently unknown.
  – As-builts in the area indicate primarily sandy soil down to rock. Boring information is being collected.
  – Two column frame piers are probable pending consultant review of ice and debris potential.

*Pier designs will be repetitive.*
Bridge Information

- **Unknowns at this stage of development**
  - Foundations design is pending. Steel H-piles driven to rock are probable.
  - Coffer dams with seal coats are likely.
Bridge Information

• Do you see any proactive approaches we should be considering at this time?
Roadway Information

- Knowns at this stage of development
  - Will be maintaining 2 lanes of traffic – 1 each EB and WB
  - Estimated Quantities
  - Contractor furnished borrow will be needed

### Preliminary Earthwork

<table>
<thead>
<tr>
<th>Stage</th>
<th>Cut (cy)</th>
<th>Fill + 30% (cy)</th>
<th>Need (cy)</th>
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<tr>
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<tr>
<td>East</td>
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<tr>
<td>East</td>
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<tr>
<td>Total</td>
<td>7,970</td>
<td>149,530</td>
<td>141,560</td>
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</table>

### Other Quantities:

- Pavement/Shoulders: 17,500 SY
- Granular Shoulders: 16,600 SY
- Temporary Pavement: 4200 SY
Roadway Information

- Unknowns at this stage of development
  - Settlement is expected. Sacrificial pavement may be our approach.
  - There is one utility affected by the project. Relocation plans are being developed.

- Do you see any proactive approaches we should be considering at this time?
Preliminary, Subject to Change

Levee Information

Missouri River Levee L575
Hwy 2 Setback (DI467)
Levee Information

- **Knowns at this stage of development**
  - Two fill materials are required
    - Cohesive Fill for the levee core
    - Loose/Random Fill for the seepage berm
  - Will be contractor furnished materials
  - Levee core is required to be built through the roadway embankment.
  - Remove the old levee after the new levee is complete.
Levee Information

- Unknowns at this stage of development
  - Extent of seepage berms
  - Requirements for dewatering the area for construction of the levee core
Contracting

• Anticipated letting is early July 2019
• Anticipated advertisement is mid June 2019
  – 3 week time period
• Federal participation
• Proposal and preliminary plans will be available
• March 1, 2020 completion date for EB Bridge, EB Roadway, Levee, and embankment removals
Contracting

• Plans may be updated during advertising period by addendum.

• After letting, plan updates will be provided as they become available with full plans by the 1st week of August.

• Quantity changes will be handled per specifications.
Additional Information

- Possible early June Constructability Meeting
- May post For-Information-Only plans
Questions?

Preliminary, Subject to Change