PROJECT DESCRIPTION

1.0 Iowa DOT is developing plans for the reconstruction of the I-480/I-29/West Broadway Interchange in the Council Bluffs Interstate System Improvement Program. This project is planned for letting in October 2019.

2.0 As part of the CBIS program of infrastructure improvements, the FHWA and the Iowa Department of Transportation (Iowa DOT) are proposing geometric, safety, and capacity improvements to the following:

- Interstate 29 (I-29) and the Interstate 480 (I-480) mainline roadways;
- Directional ramps that comprise the I-29/I-480 system interchange;
- I-480/41st Street interchange;
- The I-29/N. 35th Street and I-29/Avenue G interchange pair; and
- The I-29/9th Avenue interchange.

3.0 The project includes six (6) large steel girder bridges connecting I-480, I-29, and West Broadway, eight (8) concrete girder bridges over local streets, grading and paving, and MSE wall construction.

4.0 This project presents significant construction complexities and challenges. In order to develop a more efficient and constructible design, the Iowa DOT is requesting input from the industry regarding bridge constructability and schedule issues that would result in a successful project for both Iowa DOT and the contractors. The Iowa DOT is requesting to hold one-on-one meetings with contractors to review the preliminary staging, constructability, and risks associated with the project to gain feedback on methods to make the construction more cost- and schedule-efficient.

5.0 **Input is requested on the following items:**

- This project will have an October 2019 letting. Initial work items will include the construction of the frontage road system and critical embankments prior to a potential full closure of the system-to-system interstate movements.
- Your input on total duration of construction. Iowa DOT is interested in the shortest duration of impact to the traveling public.
- Since work areas are tight and overlapping, a single contract is being considered. Program level currently at $238M.
- Generally, bridge construction can begin immediately in the off-alignment areas.
- Opportunities for Accelerated Bridge Construction (ABC) techniques such as pre-cast deck panels, pre-cast substructures.
- Steel procurement timelines and quantity
- Labor availability for compressed construction schedule
- Maintaining access to several stakeholders in the area will be critical
- Access to work areas; material deliveries for steel and earthwork; laydown and staging areas
- Safe pedestrian and bicycle access within the project area

6.0 This Project consists of the following major items of work:

- Excavation: 750,000 CY
- Embankment: 170,000 CY
- Concrete Paving: 270,000 SY
- Wick Drains: Assumed
- Drainage Pipe: 35,000 LF
- MSE Wall: 122,000 SF
- Concrete Girder Bridges
  - 1A & 1B: I-29 over 9th Ave: 105 LF, 1 span, 14,525 SF
  - 2A & 2B: I-29 over 2nd Ave: 204 LF, 3 spans, 20,876 SF
  - 3A & 3B: I-29 over US 6/Broadway: 239 LF, 3 spans, 24,458 SF
  - 4A & 4B: I-29 over Avenue G: 239 LF, 3 spans, 28,482 SF

- Steel Girder Bridges
  - 5: I-480 EB to I-29 SB over 40th St: 306 LF, 2 spans, 22,885 SF
  - 6: I-480 EB to I-29 SB over SB Frontage & 2nd Ave: 1,424 LF, 8 spans, 63,962 SF
  - 7: I-480 EB to I-29 NB over Core Area: 1,895 LF, 10 spans, 66,387 SF
  - 8: I-29 NB to I-480 WB over 40th St.: 269 LF, 2 spans, 18,733 SF
  - 9: I-29 NB to I-480 WB over Core Area: 2,218 LF, 14 spans, 98,818 SF
  - 10: I-29 SB to I-480 WB over WB Broadway: 960 LF, 6 spans, 33,886 SF