Attachment A

119th Street and I-35 Interchange Reconfiguration Project

Beth Wright

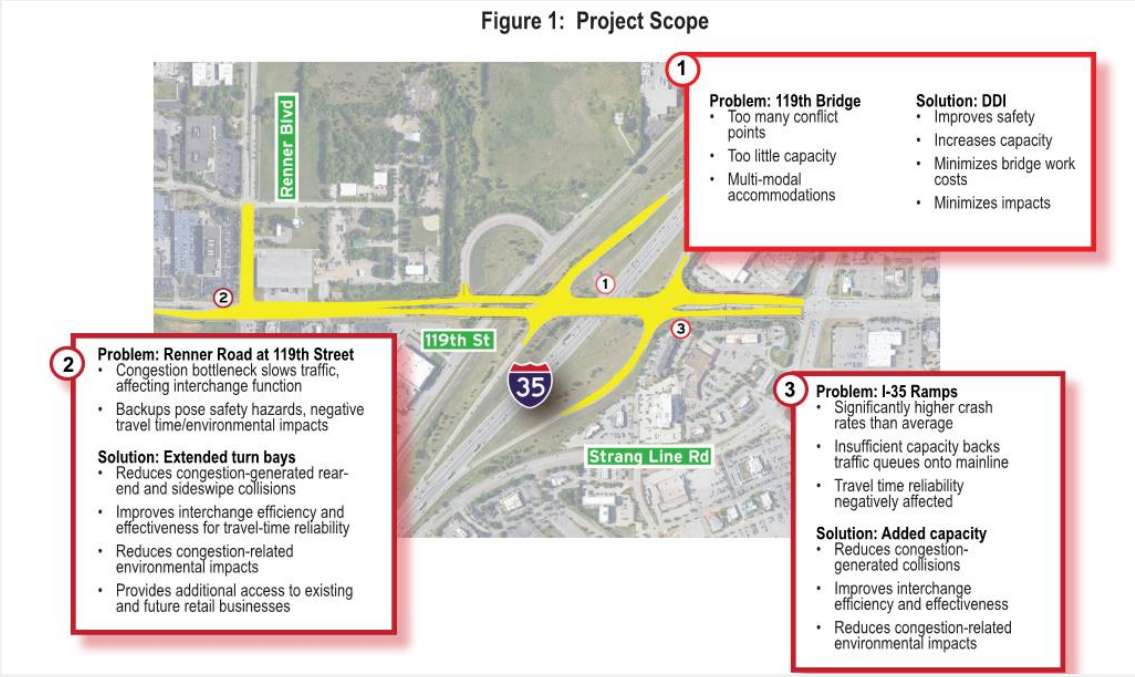
Deputy Director of Public Works

April 21, 2020

OLATHE
KANSAS

Agenda

- 119th and I-35 Project Delivery Overview
  - Comparable DDI Projects and Takeaways
  - Impact Reduction Strategy
  - Construction Phasing Alternatives and Selected Alternative
  - Leveraging A+B Procurement



OLATHE
KANSAS

Comparable DDI Projects and Takeaways

- Roe Avenue / I-435 (Overland Park) – 2014
- 95th Street / I-35 (Lenexa) – 2016
- Turner Diagonal / I-70 (UG/KCK) - 2020

Takeaways

- For interchange type conversions to DDI = Value in Closure
- Value in having proposers compete on schedule
- For 119th and I-35 – scope is favorable to competition

OLATHE
KANSAS

119th and I-35 Impact Reduction Strategy

- **Goal:** Minimize the overall impact to the community and find the right balance between cost, closures, and speed of construction while maintaining safety

- Impact Reduction Strategy
  - Planning
  - Design
  - **Construction**
    - **Schedule/Time**
    - **Traffic**
  - Public Outreach

OLATHE
KANSAS

119th Street and I-35 Construction Phasing

OLATHE
KANSAS

119th Street and I-35 Construction Phasing

- Alternative A - Closure with Rights On/Off I-35 Only
  - Time
    - Estimated 13 month construction schedule, up to 3 months for time critical work
  - Traffic
    - Reduce lanes on 119th Street and/or ramps to assist in prep work before closure
    - Time critical = Full closure of 119th Street bridges over I-35 with Rights On/Off I-35 Only

- Alternative B - Maintain Traffic With Reduced Lanes
  - Time
    - Estimated 24 month construction schedule, minimum 8 months for time critical work
  - Traffic
    - Time critical = 119th Street reduced to one through lane in each direction
    - I-35 ramps lanes reduced to one left-turn and one right-turn lane

OLATHE
KANSAS

119th Street and I-35 Construction Phasing

Alternative A – Closure with Rights On/Off I-35 Only

PROS

- Shorter construction time
- Closure will allow contractor better access to critical construction area
- Less traffic control pattern changes
- Less temporary construction

CONS

- No through traffic on 119th Street during closure

OLATHE KANSAS

119th Street and I-35 Construction Phasing

Alternative B - Maintain Traffic With Reduced Lanes

PROS

- 119th Street open to through traffic
- The interchange ramps are open

CONS

- Longer construction time – 2x as long
- More temporary construction
- Numerous traffic pattern changes
- Excessive backups

OLATHE
KANSAS

119th Street and I-35 Construction Phasing

Alternative B - Maintain Traffic With Reduced Lanes

OLATHE
KANSAS

119th Street and I-35 Construction Phasing
Selected Alternative – Closure with Rights On/Off I-35 Only

- Stakeholder Input
  - Public Survey collected over 1,000 responses
  - 88% prefer Alternative A with a shorter construction schedule
  - Businesses/Organizations in the corridor prefer Alternative A
    Including: Olathe School District, Olathe Dodge, Target, Main Event, Bass Pro, Home Depot

- Alternative A is the shortest construction duration

- Minimizes the overall impact - balance between cost, lane reductions, closures, and speed of construction

- Fewer traffic pattern changes

OLATHE
KANSAS

Leveraging Price + Time (A + B) Procurement

- How does using a Price + Time (A + B) procurement model help the City achieve their objectives?
  - Traditional Procurement

    Price (A) = Score
  - A + B Procurement

    Price (A) + Time (B) = Score

    (Days x Road User Costs)
  - The A + B procurement method rewards bidders for pledging to accelerate completion of the project, or portion thereof
  - The best-value bid is determined based on a combination of Price and Schedule

OLATHE
KANSAS

A+B Procurement Scoring Example

Bidder	Price (A)	Time (B)			A + B Proposal Score
	Contract Bid Price	# Closure Days	Road User Costs	Time (B) Subtotal	
#1	$34,800,000	150	$15,000	2,250,000	37,050,000
#2	$36,000,000	90	$15,000	1,350,000	37,350,000
#3	$35,400,000	105	$15,000	1,575,000	36,975,000

OLATHE
KANSAS

EXAMPLE: A+B Procurement Scoring

Bidder	Price (A)	Time (B)			A + B Proposal Score
	Contract Bid Price	# Bridge Closure Days	Road User Costs	Time (B) Subtotal	
#1	$34,800,000	150	$15,000	2,250,000	37,050,000
#2	$36,000,000	90	$15,000	1,350,000	37,350,000
#3	$35,400,000	(95	X $15,000)	= 1,425,000	36,825,000

A + B = SCORE

OLATHE KANSAS

Summary

- 119th Street and I-35 Phasing Alternative A leveraged closure is overall least impactful way to deliver the project

- Schedule
  - Land Acquisition – Spring 2020
  - Utility Relocation Agreements – Spring 2020
  - City/State Agreement with KDOT – Summer 2020
  - BUILD Grant Agreement – Summer 2020
  - Bid Award – Fall/Winter 2020
  - Ground Breaking – Fall/Winter 2020

OLATHE
KANSAS