



BRIDGE PACKAGE 17

EARLY COORDINATION MEETING
March 13, 2022

Purpose

- Provide Information
- Gauge Industry Interest & Competition
- Get Feedback & Answer Questions

Disclaimer

All information provided today is for information only, non-binding, does not constitute legal or other advice, and does not amend or form part of the Final Request for Proposals (RFP).

Agenda

- Location / Overview
- Scope of Work
- Procurement Type
- Schedule
- Q&A

Project Location

Union

[SC 72 over Cox Creek](#)

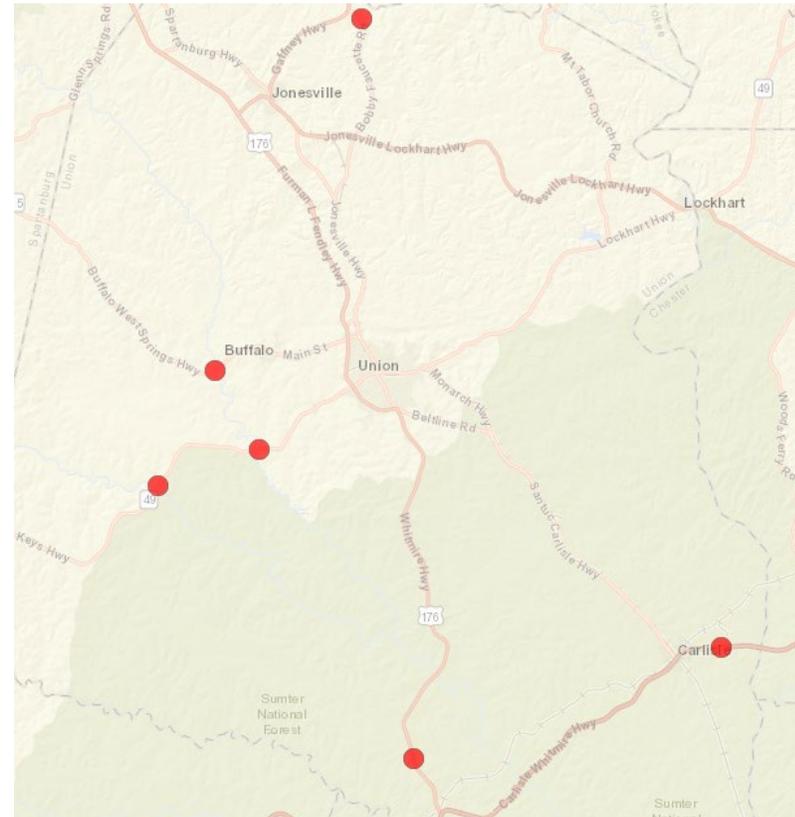
[SC 49 over Tyger River](#)

[US 176 over Padgetts Creek](#)

[SC 49 over Fairforest Creek](#)

[SC 114 over Sandy Run Creek](#)

[SC 215 over Fairforest Creek](#)



SC 72 over Cox Creek



SC 49 over Tyger & Fairforest Creek



US 176 over Padgetts Creek



SC 114 over Sandy Run Creek



SC 215 over Fairforest Creek



Anticipated Scope of Work

- Demo existing bridge structures
- Build new bridge structures, while maintaining traffic (except SC 114 may be closed & detoured)
- Roadway approaches for new structures

Roadway

- Bridges are located on four arterial roadways (3 minor and 1 principal) and two major collectors with design speeds ranging from 55-60 mph.
- One minor collector road realignment may be required for SC-49 (Tyger River) bridge replacement.
- The proposed facilities are comprised of two lane roadways with 11 to 12-foot travel lanes and paved shoulders.
- No low volume bridges within package.
- Low potential for DE's or Criteria Variance.
- Potential for off-alignment construction.

Structures

- Prestressed Concrete Beams anticipated at most sites. Cored Slab / Box Beam structure type will be restricted at all sites (due to heavy truck volumes) with one exception: All BDM structure types allowed at SC 114 over Sandy Run Creek.
- All sites meet SDC – “A” (no detailed seismic analysis required)
- SC 49 over Tyger River will not be expected to span channel (150+ channel width), one bent will be allowed in channel.
- At SC 72 Cox Creek – bridge is required to replace box culvert.

Hydro

- US 176 over Padgetts Creek – Freeboard criteria may require slight raise in LC elevation
- SC 72 over Coxs Creek – Freeboard criteria may require slight raise in LC elevation – going from triple culvert to full bridge – some debris potential
- SC 215 over Fairforest Creek – Existing LC should be adequate to meet criteria
- SC 49 over Tyger River – Road criteria may dictate grade change and possible raise in LC elevation
- SC 49 over Fairforest Creek – Existing LC should be adequate to meet criteria – Existing BW of 1.48 –Scour under Bridge in overbanks from road drainage- USGS Gauge- Follow PCDM 21 to coordinate relocation of Gauge
- SC 114 over Sandy Run Creek – Freeboard criteria may require slight raise in LC elevation – Some Debris potential – Existing BW of 3.7 (Conceptual preliminary produces 1.00' of BW)
- No known unresolvable backwater issues and all site should achieve a “No Impact” condition.

Environmental

- US 176 over Padgetts Creek – PCE. Borders USFS land and ARPA for 106 will be completed.
- SC 72 over Coxs Creek – PCE. No major issues
- SC 215 over Fairforest Creek –NPCE being prepared b/c potential structure impact to the east.
- SC 49 over Tyger River –NPCE being prepared b/c of stream impacts. Potential IP needed. Permit will be contractor's responsibility. GP available if impacts reduced.
- SC 49 over Fairforest Creek –PCE. 4f resource to southwest. De minimus will be obtained.
- SC 114 over Sandy Run Creek –PCE. No major issues.

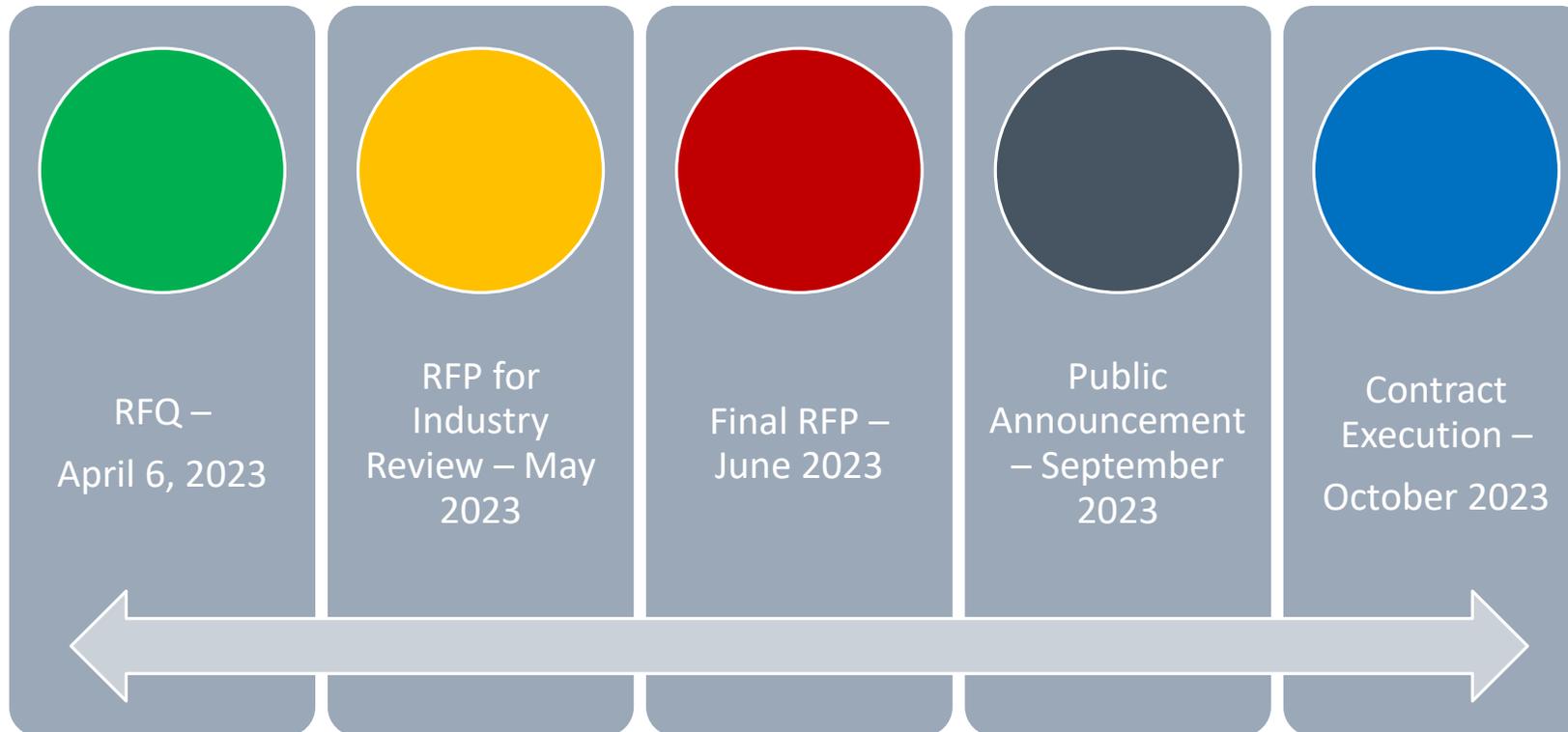
Anticipated Project Information

- Survey
- Hazardous Materials
- Hydrology
- Structures
 - SI&A sheets
- Utilities
 - provided to short-listed teams
- Environmental
- Geotech

Anticipated Procurement Type

- Two Phase
- FATC's only (Conceptual ATC meeting prior to first submittal)
- Best Value
- Weighted Criteria Formula
- DBE Goal
- Stipends

Anticipated Project Schedule



Questions / Discussion



#ProgressisourPriority

Michael E. Pitts, P.E., Assoc. DBIA

Alternative Delivery Program Manager

P 803.737.2566 **M** 803.413.9316 **E** pittsme@scdot.org

955 Park Street, P.O. Box 191, Columbia, SC 29202-0191

LET 'EM WORK. LET 'EM LIVE.