



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

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BILL LEE
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September 16, 2024

MEMORANDUM

PROJECT: PIN 124180.01 Davidson County I-40 Bridge over I-24, LM 21.58
SUBJECT: CONSTRUCTABILITY REVIEW MEETING SUMMARY
DATE: September 6, 2024,
NOTES BY: Matt Lesko, P.E. TDOT HQ Construction

A Constructability Review meeting was held on September 6, 2024, with Construction Industry Representatives, the Consultant Design Team, TDOT Headquarters Construction, TDOT Region 3 Operations and Bridge Repair staff. The scope of the review was to integrate construction expertise early into the project development process for the I-40 over I-24 bridge repair project. This is an Accelerated Bridge Construction project utilizing several pre-cast concrete components as the majority of the work is to be conducted in a short period of time.

The Line & Grade bridge repair plans were reviewed as part of the virtual TEAMS meeting.

AGENDA:

1. Introductions
2. Purpose: Existing Conditions
3. Project Overview: Roadway, Bridge, Retaining Walls, Traffic Control,
4. Work Session

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ACTION ITEMS:

1. Roadway Closure Timeframe
2. Construction Phasing
3. Procurement timeframes
4. Staging Area Location, Project Access
5. Traffic Control
6. Retaining Wall

SUMMARY:

The traffic control phasing was discussed and appears to be satisfactory to complete the scope of work outlined in the plans. To reduce impact to traveling motorists, the Department was anticipating the main bridge components to be completed over a single weekend, most contractors see this as possible, but at a great risk/cost. Raising the grade on I-40 with multiple lifts of asphalt was seen as a lengthy operation that would need to be completed during the weekend closure. Closing down the Murfreesboro Pike (SR-1) on-ramp for long durations could greatly speed up the construction of the retaining wall.

The bridge plans were mostly complete but are to undergo more refinement prior to advertisement with the help of several contractor comments and suggestions. This project could be Let as early as the February 2025 Letting, but with possible 6+ month procurement/preparation needs, this would push the actual bridge construction into football season and colder weather.

Most contractors mentioned that locating a suitable staging yard to create the pre-cast bridge section would be a challenge. The proposed pre-cast sections are large/heavy and would be difficult to move from an off-site location. The project site is constrained within a busy interchange with limited space and access options.