

Constructability Review

Questions for Constructability Review



Questions for Contractors

- General Questions
 - Is the project scope clearly defined and constructable
 - Are there any elements that immediately stand out as confusing, overly complex or missing information?
 - What are the highest construction risks to schedule and budget?
 - What assumptions have you made that could generate claims or change orders?
 - Were quantities reasonable and verifiable?
 - Are there any concerns in accessing the site with local load ratings on roadways and/or bridges?
 - Were there any conflicts noted between roadway, drainage, utility, or bridge plans?
 - If you were the contractor bidding this project, what part of the plans or sequence would concern you the most?
- Environmental
 - Are stream crossings adequate?
 - Are there any environmental restrictions that bring concerns?
- Geotechnical information
 - Is the contractor seeing any risk in information as it has been presented?
 - Any concerns about degradable (shale) material? The new specification shows that top 3' is required to be suitable material. Do you see any issues with the plans needing additional information to support this requirement?
 - Are there any areas that you see potential for unsuitable material (undercut) that are not identified in the plans?
 - Are there any concerns with earthwork on the project given the terrain, balance points, and/or phasing with bridge construction?
 - Will blasting be a requirement for excavation or utilities during construction?
- Retaining walls or bridge plans
 - Does the bridge phasing make sense with the project phasing?
 - Is temporary shoring required or of any concern?
 - Is crane access adequate?
 - Are there any concerns with hauling within the Right of Way shown in the plans and the requirements for loading structures or timeframes for bridge construction?

- Utilities
 - Are utility conflicts fully identified?
 - Are there any utility items that appear to be on the critical path of construction?
 - Are any lead times in respect to materials a concern?
- Right of Way
 - Is there sufficient Right of Way (ROW) or easement to complete the work?
 - Are there any concerns about staging? Specifically, are ROW/access/staging areas adequate at the bridge locations?
 - Are there any concerns for impacts to stakeholders/property owners?
- Traffic Control and Phasing
 - Can traffic be maintained safely during all phases?
 - Are there any areas where temporary alignments (pavements), crossovers, or detours are needed but not identified?
- Miscellaneous
 - What is an appropriate project duration?
 - Sequence of work – what is a viable sequence of work? There are essentially 4 access points to the alignment, 3 of which are not load restricted. Present a plausible scenario(s) for how the work will be sequenced.
 - Phasing to minimize double handling of dirt – The project is nearly balanced for excavation purposes. During quantity take-offs, are you seeing the need to stockpile materials? Are there ways to minimize handling material twice or other opportunities we should consider?
 - Regulations permit that 50 acres are available at any given time and there is a clearing window that must be followed. How have you approached these restrictions to maintain efficiency? Are there opportunities or suggestions we should consider to improve operational efficiencies?