EVALUATIONS

Decisions based on cost alone will not establish the design standards for the project. Technical Proposals shall address the technical elements of the design and construction of the project. The Technical Review Committee will consider the understanding of the project, the anticipated problems and the solutions to those problems, in addition to other evaluation criteria identified herein.

The Design-Build Team's Technical Proposal shall be developed using narratives, tables, charts, plots, drawings and sketches as appropriate. The purpose of the Technical Proposal is to document the Design-Build Team's understanding of the project, demonstrate the Design-Build Team's capabilities to complete the project, document their selection of appropriate design criteria and state their approach and schedule for completing all design and construction activities.

The review of design plans by the Department is not intended to reflect a reviewer's personal preferences, but rather to ensure that all contract requirements are met, sound engineering judgment is exercised by the Design-Build Team, and that the Design-Build Team adheres to all referenced documents, including but not limited to, design standards, codes, memos and manuals. As such, the Award of the Design-Build contract does not in any way imply that the NCDOT accepts the details of the Technical Proposal submitted by the Design-Build Team.

The Technical Proposal will be evaluated in each of the following major categories:

	EVALUATION FACTORS	POINTS
1.	Design-Build Team	5
2.	Responsiveness to Request for Proposal	25
3.	Schedule and Milestones	20
4.	Innovation / Added Value	15
5.	Maintenance of Traffic and Safety Plan	30
6.	Oral Interview	5

TECHNICAL PROPOSAL EVALUATION CRITERIA

1. Design-Build Team - 5 points

Provide a comprehensive Organizational Chart that identifies the design, quality and construction team members, and the relationships with subconsultants / subcontractors. The Organizational Chart shall identify all firms and personnel changes (additions, substitutions, deletions) to the Design-Build Team since submittal of the Statement of Qualifications.

- Confirm that the key personnel identified in the Statement of Qualifications have not changed and identify all team member additions.
- If different firms and / or offices develop designs for the project, indicate how the designs will be integrated / consistent.
- Describe the work categories that the Design-Build Team anticipates will be performed by the Design-Build Team's own direct labor force and those categories that will be performed by subcontractors.

- Describe how the Design-Build Team will implement design and construction quality control for this project.
- Describe any significant design and / or construction quality control issues experienced on NCDOT projects in the last five years and how those issues will be addressed for this project
- Describe all project / construction related Notice of Violations (NOVs) received by any team member within the last five years on projects in the United States and the disposition of each listed NOV.

2. Responsiveness to RFP - 25 points

Natural Environmental Responsibility

- Identify efforts to minimize impacts on wetlands, streams, riparian buffers and other environmentally sensitive areas. Describe any temporary impacts and associated minimization approaches.
- Describe the Design-Build Team's understanding of the overall approach to permitting.
- Identify methods of construction in wetlands, streams and riparian buffers.
- Describe the Design-Build Team's approach to Sedimentation and Erosion Control for the project.

DBE Open-Ended Performance Plan (OEPP)

- Provide DBE Open-Ended Performance Plan that details the Design-Build Team's commitment to meet the DBE goal.
- Provide details of the types of subcontracting work or services (with projected dollar amount) that the Design-Build Team will solicit DBEs to perform.
- Include an estimated time frame in which actual DBE subcontracts would be executed.
- Provide a schedule for submission of DBE commitment agreements by contract year based on the Design-Build Team's initial project schedule and throughout the life of the project.
- Provide details of the Good Faith Efforts that will be implemented following execution of the Contract to achieve the DBE goals outlined in the Contract.
- Identify the Point of Contact (POC) responsible for OEPP implementation.
- Provide details of the Design-Build Team's DBE Outreach and Workforce Development Efforts.
- Affidavit signed by the proposer agreeing to take all reasonable steps to follow the DBE Open-Ended Performance Plan (OEPP) and meet the DBE requirements as stated in the proposal.

Design Features

- Show plan view of design concepts with key elements noted.
- Identify preliminary horizontal and vertical alignments of all roadway elements.
- Identify the appropriate design criteria for each feature, if not provided herein.
- Identify proposed design exceptions and justify why the design exception is necessary.

- Identify proposed deviations to the preliminary design provided by the Department, not required herein.
- Show mainline typical sections.
- Provide conceptual designs and renderings for all aesthetic elements.
- Specify the pavement Alternate chosen for both I-26 and I-240. The pavement Alternate chosen for both I-26 and I-240 will not be a part of the Technical Proposal evaluation and the selection thereof will not impact the Technical Scores; although an alternate pavement design, as approved as an ATC, may be considered in the evaluation.
- Specify the pavement option chosen for I-26 and I-240 median and outside shoulders.
- The Design-Build Team shall specify the proposed I-26 and I-240 subgrade stabilization, or combination, with approximate limits of each type clearly noted.
- Provide a proposed transition area wedging and pavement structure.
- Specify the base option chosen (ABC or asphalt) for all -Y- Lines, ramps, loops, service roads and roundabouts.
- If applicable, specify where all underlying longitudinal joints will be located and demonstrate how the underlying longitudinal joint location will minimize reflective cracking.
- For all incorporated ATC pavement designs, the Design-Build Team shall include in the Technical Proposal a minimum three-year extension of the 12-month guarantee.
- Indicate how longitudinal joints will be located on a lane line or lane midpoint.
- Identify drainage modifications and designs to be implemented.
- Provide a brief summary of the mainline hydroplaning risk assessment and proposed mitigation.
- Provide a *Deck Drain Analysis Table* that contains the deck drain analysis noted in the Hydraulics Scope of Work found elsewhere in this RFP.
- Provide a *Proposed Stormwater Control Measures Table* that contains the stormwater control measure attributes noted in the Hydraulics Scope of Work found elsewhere in this RFP.
- Provide a *Box Culverts and Cross Pipes Hydraulic Assessment Table* that contains the box culvert and cross pipe attributes noted in the Hydraulics Scope of Work found elsewhere in this RFP.
- Identify the months the Department should schedule the Concurrence Point 4B Meeting and the Concurrence Point 4C Meeting.
- For all major hydraulic crossings with a conveyance greater than the capacity of a single 72” diameter pipe, indicate the rise in the floodplain water elevation.
- Discuss the extent and limits of the rise in water elevation in the floodplain(s), identify potentially impacted insurable structures, specify areas anticipated to require additional surveys and estimate the anticipated additional right of way impacts outside the project construction limits.
- Indicate how the future NC 251/SR 1781 (Broadway Street) future widening can be accomplished without the need to 1) reconstruct any of the substructure elements of the I-26 bridge(s) over NC 251/SR 1781 (Broadway Street) or 2) obtain a future design exception.
- Identify all bridge types to be constructed, including any special design features or construction techniques needed.

- Describe how the Design-Build Team will minimize the use of bridge deck joints.
- Identify types of retaining walls and / or sound barrier walls, if applicable.
- Describe any geotechnical investigations to be performed by the Design-Build Team and note any deviations to NCDOT requirements for subsurface investigations noted in the Geotechnical Engineering Scope of Work found elsewhere in this RFP.
- Identify the approximate location of new ITS devices and when they will be installed and operational in their permanent location.
- Identify any aesthetic considerations not required herein that will be part of the design.
- Describe how utility conflicts will be addressed and any special utility design considerations. Describe how the Design-Build Team's design and construction methods minimize the Department's utility relocation costs.
- Describe how the design will affect the Department's right of way costs.
- Provide a Preliminary Signing Concept Map that includes, at a minimum, all proposed overhead sign structure locations, all overhead signs, and all ground mounted Type A and B guide signs.
- Describe any proposed special materials, designs and / or construction methods that will reduce long term maintenance costs.
- Provide proposed closure, detour route, days allowed and self-imposed liquidated damages for all proposed closures of the existing I-240 on-ramp from Riverside Drive, the existing I-240 off-ramp onto Hill Street, and the reconstruction of Hill Street.

3. Schedule and Milestones - 20 points

Provide a Proposal Schedule that depicts the information noted in the *Proposal Schedule* PSP found elsewhere in this RFP. Also provide a Proposal Schedule Narrative that describes the Design-Build Team's proposed overall plan to accomplish the design and construction activities. At a minimum, the Proposal Schedule Narrative shall include, but not be limited to, the overall sequencing, a description and explanation of the Critical Path, proposed means and methods, resources, constraints and other key assumptions on which the Proposal Schedule is based. The Proposal Schedule and Proposal Schedule Narrative shall also include the following, as applicable:

- Indicate if, and how, the Design-Build Team intends to divide the project into work segments to enable optimum construction performance.
- Describe the Design-Build Team's plans and procedures to ensure timely deliveries of materials to achieve the project schedule.
- Provide a detailed schedule for the project including both design and construction activities. The schedule shall show the sequence and continuity of operations, as well as the month of delivery of usable segments of the project.
- Indicate the specific construction activities that will occur outside jurisdictional resources prior to obtaining the environmental permits and their anticipated start date.
- Indicate how the Design-Build Team will maintain the project schedule if the right of way acquisition process and / or utility relocations are delayed.
- Identify any self-imposed liquidated damages and associated Intermediate Contract Time(s), if applicable.
- Identify the month of delivery of usable segments of the project.

- The final completion date and, if proposed, the substantial completion date, clearly indicated and **labeled "Final Completion Date" and "Substantial Completion Date"**.

4. Innovation / Added Value - 15 points

- Identify any aspects of the design or construction elements that the Design-Build Team considers innovative.
- If applicable, describe design parameters / construction methods that provide added value to the Department.
- Provide a summary of all Alternative Technical Concepts (ATC) submitted, regardless of inclusion or approval status. At a minimum, include innovative and / or added value details associated with each ATC in the aforementioned summary. It is recommended, but not required, that this summary be provided as part of the 11-inch by 17-inch plan sheets.

5. Maintenance of Traffic and Safety Plan - 30 points

Maintenance of Traffic

- Provide a Transportation Management Phasing Concept (TMPC).
- Identify the type of positive median cross-over protection proposed and replacement / resetting requirements.
- Describe any traffic control measures that will be used for each construction phase.
- Describe how traffic will be maintained as appropriate and describe the Design-Build Team's understanding of any time restrictions noted in the RFP.
- Describe the Design-Build Team's approach to site access and material staging.
- Specifically describe how business, school and residential access will be maintained, if applicable.
- Identify the need for a Work Zone Speed Limit Reduction Ordinance and / or a $250 Speeding Penalty Ordinance
- Address how hauling will be conducted, including but not limited to, hauling of materials to and from the site and hauling of materials within NCDOT right of way.
- Describe the Design-Build Team's approach to providing the public access to project personnel for inquiries on vehicular and pedestrian traffic impacts.
- If a temporary portable barrier system will be utilized, provide the type and why it is needed.
- If temporary shoring will be required to maintain traffic, provide the type and why it is required.
- Include all proposed road closures, detour routes, durations and justifications.
- Address where and how law enforcement officers will be used.
- Identify a Traffic Control Supervisor and briefly describe their qualifications for this role.

Safety Plan

- Describe the safety considerations specific to the project.
- Describe any proposed improvements that will be made prior to or during construction that will enhance the safety of the work force and / or travelling public both during and after the project construction.

6. Oral Interview - 5 points

- The Design-Build Team's Project Management Team shall present a brief introduction of the project team and design / construction approach.
- Introductory comments shall be held to no more than 30 minutes.
- The Department will use this interview to ask specific questions about the Design-Build Team's Technical Proposal, background, philosophies and project approach.
- Presentation, questions, and answers shall not exceed 90 minutes. No more than ten people from the Design-Build Team may attend.

The Department will use the information presented in the oral interview to assist in the Technical Proposal evaluation, including but not limited to impacting the other evaluation criteria both positively and negatively.

Additional Warranty and / or Guarantee

- **The Extra Credit for this project shall be a Maximum of 5 Points.**

A twelve-month guarantee, as outlined in the *Twelve-Month Guarantee* Project Special Provision found elsewhere in this RFP, is required for this project. However, the Design-Build Team may provide additional warranties and / or guarantees at their discretion. The Design-Build Team may be awarded additional points as "extra credit" to be added to the Technical Score.

The Design-Build Team may provide warranties and / or guarantees for major components of the project. Examples of major components are pavements, bridge components and sign structures. If additional warranties and / or guarantees are offered, the Design-Build Team shall indicate in the Technical Proposal the general terms of the warranties and / or guarantees, a list of the items covered, performance parameters, notification and response parameters for corrective action, and evaluation periods. The Department will be responsible for annual inspections of the components covered by all warranties and / or guarantees offered by the Design-Build Team that extend beyond the required twelve-month guarantee. The warranties and / or guarantees shall also define how disputes will be handled.

No direct payment will be made for warranties and / or guarantees. Payment will be considered incidental to the lump sum price for the contract.