PDN Stage 2 - Roadway QA Checklist

|  |  |
| --- | --- |
| **SPOT ID/Project TIP #:** | Click or tap to edit. |
| **County:** | Click or tap to edit. |

2RD2 Prepare for Field Inspection

| **Item #** | **Review Item** | **Acceptable** | **Unacceptable** | **N/A** |
| --- | --- | --- | --- | --- |
|  | **Field Inspection Plan Set** |  |  |  |
|  | Has the design exception package been reviewed to ensure it is consistent with current guidance, if applicable? |  |  |  |
|  | Have the plans been reviewed for the following constructability/maintenance of traffic concerns:  \_\_\_ Are there any issues with the maintenance of traffic approach provided in the construction narrative?  \_\_\_ Have the number of crossovers been minimized for widening projects?  \_\_\_ Are there locations where the existing pavement is being undercut? If so, is there documentation as to how traffic will be maintained during construction?  \_\_\_ Are there locations where there is excessive wedging that can be minimized?  \_\_\_ Are there any major issues with the onsite detours as designed?  \_\_\_ Can proposed structures be constructed as shown in the plans (i.e. one stage vs. multiple stages? |  |  |  |
|  | Have the service roads recommended by service road studies been included in the plans? |  |  |  |
|  | Are there properties which will require total acquisition due to lack of access? |  |  |  |
|  | Are the proposed driveway connections designed so that the appropriate vehicles can traverse them without issues? |  |  |  |
|  | Have multimodal accommodations as identified in Project Initiation and/or as coordinated with municipalities been incorporated into the plan? |  |  |  |
|  | Have the limits of the proposed right of way and easements been reviewed to ensure they are consistent with the method of clearing identified? |  |  |  |
|  | Has the “Verification of the Design with Adjacent Projects” been reviewed to ensure it is correct, if applicable? |  |  |  |
|  | Title Sheet |  |  |  |
|  | Is the mileage shown on the title sheet correct? |  |  |  |
|  | Are bridges and culverts 20’ and over shown and match the locations in the plans? |  |  |  |
|  | Are the tentative right of way and let dates shown and match the current schedule? |  |  |  |
|  | Does the design exception note match the design exception notes shown on the plan and profile sheets? |  |  |  |
|  | Typical Sections |  |  |  |
|  | Do the typical sections reflect the pavement  design and geotechnical roadway and pavement design  and/or pavement design recommendations? |  |  |  |
|  | Does the pavement schedule letter for the mainline and major -Y- lines match the pavement design letter and geotechnical pavement recommendations? |  |  |  |
|  | Detail Sheets |  |  |  |
|  | Have all the elements needed by the contractor to construct the project but not shown on the plan sheets been provided in the details? |  |  |  |
|  | Have details from other Technical Units been included after their designs have been completed? |  |  |  |
|  | Have special details from Contract Standards been included? |  |  |  |
|  | Horizontal Design and Detour/Interchange/Plan Sheets |  |  |  |
|  | Have all design exceptions associated with the horizontal design been correctly identified? |  |  |  |
|  | Are there potential obstructions in the deflection zone? |  |  |  |
|  | Are the slope stakes shown reflective of the incorporation of the designs/recommendations of other Technical Units? |  |  |  |
|  | Do the proposed right of way and easements encompass the limits of construction shown on the roadway design plans as well as those from other Technical Units? |  |  |  |
|  | Are the types of proposed control of access and access breaks, if required, shown correctly on the plans based on the control of access definitions? |  |  |  |
|  | Vertical Design and Profile Sheets |  |  |  |
|  | Have all design exceptions associated with vertical design been correctly identified? |  |  |  |
|  | Is the grade set such that input from the other Technical Units has been addressed? |  |  |  |
|  | Has the proposed grade been set so that there is adequate cover on top of culverts? |  |  |  |
|  | Have the proposed bridges and culverts been shown along with any pertinent data once the hydraulic design and preliminary general drawing is complete? |  |  |  |
|  | Have the Geotech recommendations been appropriately incorporated into the profile sheets? |  |  |  |
|  | 3D Model/XSC and Cross Section Sheets (Cursory Review) |  |  |  |
|  | Are the 3D model/cross sections consistent with what is shown in the horizontal and vertical designs (i.e. guardrail locations, new location vs. resurfacing, curb and gutter vs. shoulder, retaining wall locations, etc.)? |  |  |  |
|  | Summary Sheets |  |  |  |
|  | Have the appropriate summaries been provided? |  |  |  |
|  | Has a cursory review of the summaries been completed to ensure they were developed using the guidance in the Roadway Design Manual and/or Standard Specifications? |  |  |  |
|  | Calculation of Quantities (Cursory Review) |  |  |  |
|  | Have the quantities been developed in accordance with the Roadway Design Manual, NCDOT Standards and Specifications, or other current guidance? |  |  |  |
|  | Have all the appropriate quantities have been included in the estimate form and match the calculated totals? |  |  |  |

*For items marked* ***Unacceptable****, provide comments or action items in the table below.*

| **Item #** | **Comments and Action Items** |
| --- | --- |
| Click to edit. | Click to edit. |

|  |  |  |  |
| --- | --- | --- | --- |
| ***This checklist may not be comprehensive to every project. It is the responsibility of the reviewer to ensure that an adequate review is performed.*** | | | |
| **QA Reviewer Name:** | | Click to edit. | **Date:** | Click to edit. | |
| **QA Reviewer (Signature):** | |  |  |  | |