DN Stage 2HY2 – Hydraulics QC Checklist

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

2HY2: Drainage Design for Field Inspection

Deliverable: Comments on Design Recommendation Plan Set(s)

 Hydroplaning Assessment (As Needed)

| **Item #** | **Review Item** | **Yes** | **No** | **N/A** |
| --- | --- | --- | --- | --- |
|  | **General** |  |  |  |
|  | Current version of [Guidelines for Drainage Studies and Hydraulic Design](https://connect.ncdot.gov/resources/hydro/Pages/Guidelines-Drainage-Studies.aspx) used to complete plan set review.  |[ ] [ ] [ ]
|  | **Comments on Design Recommendation Plan Set** |  |  |  |
|  | Design Recommendations Plan Set has been reviewed by the hydraulic engineer for potential risks that may adversely affect safe operation of the roadway and efficient drainage design. |[ ] [ ] [ ]
|  | Typical sections have been reviewed. Any revisions to the typical sections necessary for an effective and efficient drainage design (such as change in gutter type, cross slopes, etc.) have been documented and coordinated with the Roadway Design lead. |[ ] [ ] [ ]
|  | Roadway profile has been reviewed and grade is adequate for anticipated drainage pipes and systems with acceptable cover. |[ ] [ ] [ ]
|  | Alignment review for avoidance and minimization.  |[ ] [ ] [ ]
|  | Sags in cuts have been avoided, or adequate relief exists that they can be drained |[ ] [ ] [ ]
|  | Super rollovers are not located at sag and crest locations. |[ ] [ ] [ ]
| 1.
 | **Hydroplaning Assessment (As Needed)** |  |  |  |
|  | Hydroplaning Assessment completed for appropriate roadway typical sections and areas of concern as defined in Chapter 4 of the [Guidelines for Drainage Studies and Hydraulic Design](https://connect.ncdot.gov/resources/hydro/Pages/Guidelines-Drainage-Studies.aspx) |[ ] [ ]  [ ]  |

*For items marked* ***No*** *that require further explanation, provide comments or action items in the table below.*

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

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| **This checklist may not be comprehensive to every project. All items may not be applicable for smaller projects. It is the responsibility of the reviewer to ensure that all necessary information has been provided and an adequate review performed.** |
| **QC Reviewer Name:** |  Click to edit. | **Date:** |  Click to edit. |
| **QC Reviewer (Signature):** |  |  |  |