



Roadway Design Unit



[Tatia L. White, PE, PLS, CPM](#)

Design Development and Support Group:

[Jordan Woodard, PE \(Divisions 1-6 & 8\)](#)

[David Clodgo, PE, PMP \(Divisions 7 & 9-14\)](#)

Reviews roadway design submittals from private engineering firms for Central and Division managed projects. Reviews municipal projects, greenways, non-utility encroachments and other special projects as requested by Division. Provides technical expertise for roadway design, roadway design policies and plan preparation.

Develops conceptual designs and cost estimates for feasibility studies. Develops roadway design scope and manday estimates for Central and Division managed projects. Prepares designs for preliminary, right of way and final plans that are managed by the Divisions, Central, and Structures Management Units. Prepares right of way and construction revisions on Legacy projects and provides assistance to the Surplus Right of Way Disposal and Control of Access Review Committee.

[Developing Design Criteria
Design Criteria Form](#)

[Conceptual Construction Cost Estimation Guidelines](#)

Specialty Functions and Support Services Group: [Mike Lindgren, PE](#)

➤ Lighting and Electrical Team: [Greg Hall](#)

Develops lighting, electrical and conduit designs for the Department and assists municipalities with designs inside the NCDOT right of way. Reviews all lighting plan submittals, from private engineering firms and contractors, and physically tests all completed lighting installations to assure compliance with the contract.

[Roadway Lighting Policy Memo
LED Luminaires Specifications](#)

[Lighting Policy](#)

➤ Support Services Section: [Jason Moore, PE](#)

Provides technical, design, and business support for the Roadway Design Unit. Develops, tests, and maintains all Roadway related CADD standards and provides CADD support and training to all central staff, as well as Division and private engineering personnel. Maintains the Unit's computer and website resources and is responsible for several unique business processes. Involved in several technical departmental improvement and restructuring initiatives.

[ORD Quickstart Training \(2019\)](#)
[ORD Civil Geometry Training \(2019\)](#)
[ORD Templates Training \(2017\)](#)

[Roadway Design ORD Training Modules \(2021\)](#)
[Technical Resources](#)

➤ Research, Standards, and Innovation: [Sherri Calhoun, PE](#)

Research, Standards, and Innovation Team assists the unit in the research of local, state, and national roadway design guidance and practices. The team analyzes the research related to current NCDOT design guidance and practices and assists in the development of technical reports conveying the findings of the research and making recommendations to the Unit and Department leadership on updates to design guidance and practices, and lead efforts to respond to roadway design related inquiries from internal and external customers. The team coordinates with Roadway Design staff, other technical disciplines, Divisions, and private engineering firms as a part of ongoing maintenance of roadway design guidance such as the Roadway Design Manual.

[UPDATED Roadway Design Manual](#)