**Signing & Delineation Unit (SDU) 5/8/2018**

| No. | Category  | Purpose | Details | Reference | Action |
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| 1 | **Signing** | * Regulatory Signs
* Warning Signs And Object Markers
* Guide Signing Messaging
* Program Signing
* TEPPL
* Plan review
 | * SDU to Review Signing Concept Plans and requirements For Interstates, Freeways.
* Review concept Alternative designs (i.e. CFI, turbines, complex interchanges).
* Furnish an electronic copy of Overhead Sign designs, Structure line drawings and shop drawings to SDU.
* Contact Logo coordinator if any Logo or Ag Tourism Signs are effected by project.
* Coordinate signing and messaging on Interstate and Freeways with SDU and DTE.
* **If SDU is required to review plans, ensure a sufficient amount of time is given.**
* **If SDU has not reviewed, DO NOT place SDU staff on plans.**
* **Use latest Seed files.**
 | * <https://mutcd.fhwa.dot.gov/htm/2009/part2/part2_toc.htm>
* <https://connect.ncdot.gov/resources/safety/Teppl/Pages/Teppl.aspx>
* <https://connect.ncdot.gov/resources/safety/Pages/Signing-and-Delineation.aspx>
 | * Required
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| 2 | **Pavement Marking** | * Lane Continuity Issues
* Left Lane merge
* Pavement Marking type
* Wrong Way / Ramp arrows
 | * SDU to review pavement marking concept plans for Interstates and freeways.
* Direct road users into appropriate lanes in advance of diverging or merging movements (lane Continuity).
* Coordinate with Signals Unit for stop bar locations and curb ramps.
* Pavt. Mkg recommendation requested from SDU.
* Ensure standard drawings are followed for exit only lanes, merge areas, ramp arrows and side by side ramps.
* **If SDU is required to review plans, ensure a sufficient amount of time is given.**
* **If SDU has not reviewed, DO NOT place SDU staff on plans.**
* **Use latest Seed files.**
 | * <https://connect.ncdot.gov/resources/safety/Pages/Signing-and-Delineation.aspx>
* <https://connect.ncdot.gov/resources/safety/Signing%20and%20Delineation%20Library/Side-by-Side_On-Off%20Ramp.pdf>
 | * Required
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| 3 | **Long Life Markings** | * Benefit/ Cost Savings
 | * Long life markers to be used on all TIP projects.
* See the charts on the SDU website for choosing the correct markings for your roadway with regard to planning resurfacing.
* See Cost Analyses presentation on SDU website.
 | * <https://connect.ncdot.gov/resources/safety/Signing%20and%20Delineation%20Library/Pavement_Marking_Cost_Analysis.pdf>
 | * Required
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| 4 | **Scoping Projects** | * Signing and Pavement Marking Analysis
* Overhead Sign Structures
* Guardrail and barriers
 | * NCDOT and PEF must agree on initial scope of work. (See SDU scoping sheet).
* Include manday and cost day estimate for future revisions involving ground mounted supports and overhead structures. Firm **required** to complete revisions, if SDU is not involved with project.
* See SDU design guidelines.
* Ensure future or overlapping projects are taken into consideration.
* See project scoping sheet under Private Engineering firms on SDU website.
 | * <https://connect.ncdot.gov/resources/safety/Signing%20and%20Delineation%20Library/Design%20Guidelines.pdf>
* <https://connect.ncdot.gov/resources/safety/Pages/Signing-and-Delineation.aspx>
 | * Recommended
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|  | **Ordering Signs** | * Department furnished signs are ordered from Bunn Sign Plant.
 | * Require 4 month advance notice to requisition signs.
* Ground mounted signs are required to be field verified with appropriate S dimensions (see Construction Manual).
* Ensure ordering signs from most recent sealed plans.
* If SDU is ordering signs need request in writing from contractor.
 | * <https://connect.ncdot.gov/projects/construction/Pages/ConstMan.aspx?Order=CM-19-000>
 | * Required
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| 5 | **Route Changes**InterstateUSNC | * All Interstate, US and NC route changes are required to be submitted to SDU for processing through State Traffic Engineer.
 | * Final approval of Interstate and US Routes are determined by AASHTO and/or FHWA.
* AASHTO meets twice a year for approvals.
* Coordinate Route changes with RTE (Regional Traffic Eng).
* State Traffic Eng has final approval on NC routes.
 | * <https://connect.ncdot.gov/resources/safety/Pages/Route-Changes.aspx>
 | * Required
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|  | **Bike/Ped Accommodations** | * Bike Lane
* Crosswalk Marking
* Curb Ramps
* PED/Multimodal
 | * Bike Lane Markings
* Crosswalk Markings
* Curb Ramp Placement
* PEDS
 | * See Handout and SDU website
* <https://connect.ncdot.gov/resources/safety/Pages/Signing-and-Delineation.aspx>
 | * Recommended
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