

FORMS  
**STRUCTURE BULLETIN**

# NCDOT Construction Unit

[Website email](#)



1. Current Issues
2. Updates
3. Specification Questions
4. Training

	Central Contract	Division Contract	Time Frame
<b>Advance Notice of New Structure Completion</b>	Resident Engineer	Resident Engineer	30 Days Before Opening
<b>Notice of Vertical Clearance Change</b>	Resident Engineer	Resident Engineer	Immediately
<b>Engineer Acceptance Report</b>			
<b>Deck &amp; Rail Acceptance</b>	Area Construction Engineer	Resident Engineer	72 Hours After Opening
<b>Partial Acceptance</b>	Area Construction Engineer	Resident Engineer	
<b>Final Acceptance</b>	Area Construction Engineer	Resident Engineer	
<b>Final/Partial Acceptance Letter to Contractor</b>	Central Construction Unit	Division Construction Engineer	1 Week

## Current Issues: Odds and Ends

This issue will catch up on several odds and ends that have come up in the Resident Engineer Workshops and Structure Inspector Training.

1. The table above shows who is responsible for sending out the notification and acceptance forms for both Centrally Let and Division Let projects, as well as the required timetable.
2. Remember, on rehabilitation projects with multiple bridges you can wait until the final acceptance to send the acceptance notifications for all bridges together, but any change in vertical clearance must be sent in immediately.
3. There were questions regarding an incorrect height for guardrail anchor unit connections in the Standard Drawings. See [this Roadway Bulletin](#) for an explanation.
4. Grout samples are to be cubes, not cylinders. Cube molds can be ordered from the stock room on page 2 of [this form](#). The line number is 57 and the description reads "(2x2) Cube Mold (Elastomeric Use)". Remember, grout for structures is a Type 3 grout and is covered in Section 1003 of the Spec Book. The 3-day samples are for early breaks, but 14 day samples are required for acceptance. Don't use acceptance samples for early breaks.

## Updates:

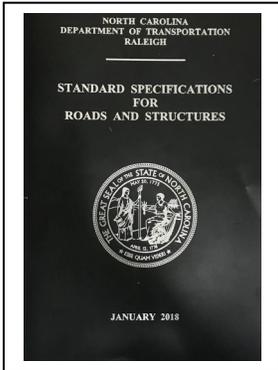
Vivian Speight-Bridges has retired from the permitting section. From here forward you should include the email [Permit-structures@ncdot.gov](mailto:Permit-structures@ncdot.gov) in the cc list for the following forms:

- Engineer Acceptance Report
- Notice of Vertical Clearance Change

These changes will be reflected in the forms on the connect site in the near future.

Thanks for your help in this area. There has been a noticeable improvement in the responses to the Structure Management Unit. If you ever have questions about which structures need to be included in these acceptances contact David Snoke or send an email to [SIA@NCDOT.GOV](mailto:SIA@NCDOT.GOV).

Rehab final



## Class Questions:

**Question:** What do I do about negative build-ups?

### Answer:

Build-ups are the distance between the top of the girder and the theoretical bottom of slab elevation after the girder has deflected. This number is used to set deck pans, overhangs and grade the screed. Normally this number should always be positive, meaning the deck is higher than the top of the girder.

There are cases where this number is negative. This could be as a result of incorrect calculations, plan errors, extra camber in the girder, improperly graded splices in steel girders, and so on. While negative build-ups may not be a big deal **you should notify the engineer any time you encounter them.** In some cases, corrective action may be necessary. This will depend on the amount of the negative build-up and the girder type.

You may also encounter an excessively positive build-up. These can occur when there is a sag vertical curve in the alignment and significant camber in the girder. In this case the shear studs or stirrups on top of the girder may not properly engage the reinforcing steel in the deck.

In any of these cases the Area Construction Engineer will be happy to assist you in evaluating your specific situation.

## Area Construction Engineers:

Div	Contact	Phone
1&2	<a href="#">Randy Hall</a>	282-402-9957
3&4	<a href="#">David Candela</a>	910-524-4931
5	<a href="#">Troy Brooks</a>	336-972-4627
6&8	<a href="#">John Partin</a>	336-847-1226
7	<a href="#">Aaron Griffith</a>	336-215-9170
9	<a href="#">Vickie Davis</a>	704-202-0945
10	<a href="#">Darin Waller</a>	980-521-5176
11&12	<a href="#">Doug Eller</a>	336-877-7048
13&14	<a href="#">Aaron Powell</a>	828-694-7971

## New Videos:

New videos have been added to the [Construction Unit YouTube playlist](#).

- [Substructure Rehabilitation Part 2](#)
- [Substructure Rehabilitation Part 3](#)
- [Substructure Rehabilitation Part 4](#)
- [Superstructure Rehabilitation - Surface Preparation](#)
- [Superstructure Rehabilitation - Silane Overlay](#)
- [Superstructure Rehabilitation - epoxy overlays](#)

### Training:

Structure Inspector Training is now underway. It covers introductory level material designed for those with limited structure related experience. Details are still being worked out, so check back to see the schedule. Additionally, the CON 802 Basic Structure Inspection class has been revised as a companion to the class. [It can be found here.](#)

## Structure Bulletins

are now archived on the [Construction Unit](#) website under [Construction Resources](#).

Below is a QR code link to the Structure Bulletin Archive.



If you have a topic you would like to see addressed in a future edition of the Structure Bulletin please [email](#) us at either [acochran@ncdot.gov](mailto:acochran@ncdot.gov) or [aeaward@ncdot.gov](mailto:aeaward@ncdot.gov)