EXPRESS DESIGN-BUILD BRIDGE REPLACEMENT

SUBMITTAL GUIDELINES

YEAR FIVE

March 24, 2016

The submittal process used in the Design-Build program is a critical link to the successful delivery of Design-Build projects. The submittal process is geared for rapid review, while ensuring that the project is safe, environmentally conscious, satisfies all national and state codes and manuals, and fulfills the requirements set forth in the Request for Proposals. This document outlines the procedures to be followed by both the Design-Build Team and the Design-Build Unit in the submittal, distribution and review of Express Design-Build plan submittals.

DESIGN AND PERSONNEL EXPECTATIONS

The Design-Build Team shall be responsible for designing in accordance with the Request for Proposal.

Prior to any submittals, the Design-Build Team shall provide the Design-Build Project Manager with a list of key design and construction staff. The Department will reciprocate by providing the Design-Build Team with a list of Department contacts to be used when submitting plans for review. The list of Department contacts shall only be used to accurately complete the submittal forms. All submittal correspondence, both verbal and written, shall be directly among the Design-Build Team and the Design-Build Unit, unless otherwise approved.

The comments, or lack thereof, provided by the Department in no way relieves the Design-Build Team of liability or the responsibility to correct any error in their plans, computations and/or construction. The Design-Build Team shall make design and field construction corrections without additional compensation.

SCHEDULING OF SUBMITTALS

The Design-Build Team shall prioritize submittals in the event that multiple submittals for the same bridge / culvert site or different bridge / culvert sites are made at the same time. Submittals for bridges and/or culverts over the same waterway may be submitted simultaneously.

SUBMITTAL PROCESS

All submittals mentioned hereafter shall be submitted in a **"pdf"** format unless noted elsewhere in these guidelines.

Pertinent submittals may also require design calculations, files and special provisions. No construction work shall be performed prior to the Department's review, receipt of satisfactory response to the Department's comments, and the subsequent production of sealed Release for Construction Plans. All Release for Construction Plans shall be clearly labeled as **RFC** and signed and sealed by a Professional Engineer registered in the state of North Carolina. The term **RFC** shall be solely reserved for those plans for which the Department agrees that no further review is necessary.

All submittals shall be accompanied with a standard submittal form. Each submittal shall be assigned a submittal number. This submittal number shall not have suffixes other than those

reflecting re-submittals of the same information. Specifically, "**Revise and Resubmit**" submittal responses require the Design-Build Team to correct and re-submit the same information with the original submittal number and an "**R**" suffix. For example, submittal **S-001** shall be revised to **S-001R1** to reflect the first re-submittal and **S-001R2** to reflect the second re-submittal of submittal **S-001**.

Each submittal form, cover sheet and plan sheet submitted shall clearly denote the six digit bridge or culvert number.

Submittals shall contain information for only one discipline for each bridge or culvert site. For example, if Structure Plans and Traffic Control Plans for a given site are submitted on the same day, two separate submittals shall be required. The Department will then forward the submittals to the appropriate reviewing personnel.

SUBMITTAL SITE AND FOLDER STRUCTURE

When providing electronic submittals to NCDOT for any Express Design-Build project, the submitter for the awarded Design-Build Team will need access to the project's submittal site. To access the site, navigate to Connect NCDOT portal (https://connect.ncdot.gov/Pages/default.aspx) and scroll down to the "Team Site Users: Sign In Here" section. Click on the green "Sign In" button and login with your NCID user ID and password. You should then see a list of sites in "Your Team Sites" and click on the site for the project.

> *Note: It is assumed that the processes of creating and granting access to the team site are outside the scope of this document. It is also assumed that users will create the necessary alerts on the appropriate folders (if necessary); instructions for setting alerts will be provided.*

Once the user has accessed the project's submittal site, they would see two document libraries: one for "submittals" and another for "submittal responses". So that the Design-Build Team receives notice of a completed submittal review, each team member shall create an alert on the "Submittal Response" document library.

Uploading a submittal to be reviewed

Please create a folder in the submittals document library and the name of the folder should include the submittal number, the structure number (if applicable), and discipline, with an underscore separating each. Therefore, the folder name might appear as S-001_950013_RoadwayDesign or S-004R1_670001_HydraulicDesign. The submittal must include all the files for each submittal type as defined in the "Express Design-Build Submittal

Guidelines for Year 4." After the submittal has been posted to the site, the submitter shall send an email to each reviewer as a notification to review the submittal and shall include the location of the file(s). *Note: Submitters can create folders and add documents in this library, as well as delete folders and documents.*

Completion of a submittal review

Upon the completion of the submittal's review, the NCDOT Design-Build Engineer will create a folder in the second library (Submittal_Response) with the same name. Within this folder, the Design-Build Engineer will place the submittal response file along with any additional information related to the review of the submittal. When the response has been uploaded, the team will receive confirmation through the alert notification system.

Note: Everyone can read from this library, but only the NCDOT has access to create folders and add documents.

AS-CONSTRUCTED / AS-BUILT PLANS

For those projects that the Department provides Construction Engineering Inspection (CEI) the Design-Build Team shall provide As-Constructed Plans. As-Constructed Plans shall include all disciplines (i.e. Roadway, Structures, Traffic Control, Erosion Control, Utilities, etc.)

For those projects that the Design-Build Team provides Construction Engineering Inspection (CEI) the Design-Build Team shall provide As-Built Plans. These plans shall be signed and sealed by a Professional Engineer registered in the state of North Carolina. As-Built Plans shall include all disciplines (i.e. Roadway, Structures, Traffic Control, Erosion Control, Utilities, etc.).

REVIEW TIME

Unless otherwise noted herein or in the Request for Proposal Scopes of Work, submittals will be reviewed within ten working days (15 working days for FEMA compliance documents and temporary shoring) from the date of the Department's receipt. All Electronic submittals shall be received before 11:00 a.m. to start the specified review period on that day. If submittals are received after 11:00 a.m., the review period shall begin on the following business day. The 10-day review period includes only NCDOT workdays.

SUBMITTAL RESPONSES

The Design-Build Unit will respond to all submittals, with the exception of structure working drawings (Structure Management Unit will provide responses). The submittal response will include a standard response form that indicates whether the Department has comments or requires a re-submittal on that item.

The comments will be returned to the Design-Build Team as noted above. The Division Construction Engineer and the Resident Engineer will be notified by copy of all submittal response forms returned to the Design-Build Team. Copies of the comments, particularly if made directly on the submitted plan sheets, will not be transmitted to either the Division Construction Engineer or the Resident Engineer, unless otherwise requested.

SUBMITTAL PREREQUISITES

The Department will not accept subsequent submittals until prior submittal reviews have been completed for that item. For example, the RFC submittal for a discipline shall not occur prior to the NCDOT final plan review, etc. for that same discipline.

Submittals shall be transmitted in a logical order and in accordance with the project CPM or submittal schedule most recently submitted by the Design-Build Team. However, if the Design-Build Team chooses to submit plans that require prerequisite reviews, the Design-Build Team assumes all risks should the prerequisite plan review result in comments that impact the current submittal. Should this occur, NCDOT will begin a new review period. Depending on the complexity of the project, certain iterations of these submittals may be waived by the Department.

The Design-Build Team shall notify the Department of any changes to previously reviewed submittals. For example, if the Department reviews the horizontal and vertical alignments, the Design-Build Team shall be required to advise of any subsequent revisions made to those alignments. A re-submittal of that item will generally be necessary. Similarly, any design / construction changes made after submittal of RFC Plans shall require a submittal for review and acceptance to ensure that dependent plan reviews are based on the most current and accurate information. At a minimum, this submittal shall follow the standard submittal guidelines, as well as the appropriate discipline prerequisites and review.

Any information included in a submittal for informational purposes shall be noted as such. For example, if the Roadway Plans are included to assist in reviewing the Traffic Control Plans, they shall be noted with “FYI”.

SUBMITTALS REQUIRED BY DISCIPLINE

All design submittals shall be uploaded to the project's submittal site on "Connect NCDOT" portal, unless stated otherwise elsewhere in this document.

ROADWAY DESIGN

The submittal of Roadway Plans will generally be comprised of the steps as outlined below. The various Roadway Plans shall be submitted with plans for other disciplines, as noted throughout this document. Any changes to a stage of the Roadway Plans made after that stage's initial review and comments by the Department shall require re-submittal to ensure that dependent plan reviews are based on the most current and accurate Roadway Plans.

For guidance in preparing these plan submittals, see the document entitled "Roadway Design Guidelines for Design-Build Projects" located on the Design-Build website. All submittals shall adhere to the NCDOT Review requirements for Preliminary Plans and Release for Construction Plans (RFC) located on the Design-Build website.

The Design-Build Team shall develop plans using the current version of Microstation and Geopak software required by the Department and shall be in English units, unless otherwise noted in the Request for Proposal. The plans shall follow the Department's CADD standards including, but not limited to, file naming convention, leveling chart and file folder structure. These standards can be found through a link on the Design-Build website.

GEOPAK / MICROSTATION FILES SUBMITTAL

The Design-Build Team shall provide to the Design-Build Unit a copy of the latest Geopak / Microstation files at the following milestones:

(1) Accepted Preliminary Roadway Plans
(2) Accepted Right of Way Plans
(3) Accepted RFC Plans for all disciplines

DESIGN CRITERIA / STRUCTURE RECOMMENDATIONS

The Design-Build Team shall submit Design Criteria/Structure Recommendations for review.

List of Recipients:

- Design-Build Unit
- Structure Management Unit

PRELIMINARY ROADWAY PLANS

The Design-Build Team shall provide Preliminary Roadway Plans and Design Calculations for review. The Design-Build Team shall submit the Design Exception Process Checklist with this submittal.

Prerequisites:

- Accepted Design Criteria and Structure Recommendations

List of Recipients:

- Division Construction Engineer
- Resident Engineer
- Division Bridge Program Manager
- Design-Build Unit
- Hydraulics Unit
- Utilities Coordination Unit (If applicable)
- Area Bridge Construction Engineer

RIGHT OF WAY PLANS / FINAL ROADWAY PLANS

The Design-Build Team shall provide either Right of Way Plans or Final Roadway Plans for review. If the project requires the purchase of right of way and or easements, then this submittal shall be labeled as Right of Way Plans, otherwise this submittal shall be referred to as Final Roadway Plans. In this submittal, denote any design changes made subsequent to the Preliminary Roadway Submittal. If applicable, provide a narrative of how the Design-Build Team has addressed conservation measures with this submittal.

If applicable, the Design-Build Team shall provide a copy of the Right of Way Plans for right of way recordation. Note that parcel numbers shall not be repeated at various bridge sites within the same contract.

Prerequisites:

- Approved Bridge / Culvert Survey Reports
- Approved Design Exceptions
- Accepted Preliminary Roadway Plans
- Accepted MOA Package
- Accepted Erosion Control Plans

List of Recipients:

- Division Construction Engineer
- Resident Engineer
- Division Bridge Program Manager
- Design-Build Unit
- Utilities Coordination Unit (if applicable)
- Area Bridge Construction Engineer
- Right of Way Branch
- Division Right of Way Agent

RFC ROADWAY PLANS

The Design-Build Team shall submit RFC Roadway Plans for review. All final designs shall be signed and sealed by a Professional Engineer registered in the state of North Carolina.

Prerequisites:

- Submittal of Typical Sections for the Pavement Design Unit to sign and seal the pavement design, if applicable
- Accepted Right of Way Plans & Final Roadway Plans

List of Recipients:

- Resident Engineer
- Design-Build Unit
- Pavement Management Unit
- Area Bridge Construction Engineer
- Division Construction Engineer
- Division Bridge Program Manager

TEMPORARY ROADWAY ALIGNMENTS

The Design-Build Team shall submit all temporary roadway alignments for review. The submittal of temporary roadway alignments shall adhere to the Final Plans requirements noted above.

Prerequisites:

- Accepted appropriate Traffic Control Phase

STRUCTURES DESIGN

Plan submittals for bridges shall be submitted in three stages, Preliminary General Drawings, Final Bridge Substructure / Superstructure Plans and RFC Plans. Culvert plans may be submitted in one stage.

PRELIMINARY BRIDGE / CULVERT GENERAL DRAWINGS

Preliminary General Drawings shall contain sufficient details (drawings or narrative) to explain the scope of design and construction intended for the bridge and shall list all anticipated special provisions and notes describing design data and material properties. For guidance on preparing Preliminary Bridge / Culvert General Drawings, reference submittal link on the Design-Build website.

Prerequisites:

- Approved Hydraulic Bridge / Culvert Survey Report
- Accepted Preliminary Roadway and 100% Hydraulic Design Plans

List of Recipients:

- Resident Engineer
- Design-Build Unit
- Structure Management Unit
- Area Bridge Construction Engineer
- Geotechnical Engineering Unit

BRIDGE SUBSTRUCTURE / SUPERSTRUCTURE FINAL PLANS

Final Plans shall have all plan details and notes completed for final review. The Final Plans may be separated into substructure and superstructure or other submittals as necessary to accommodate construction schedules.

The Design-Build Team shall address all comments in writing and revise all designs and/or drawings accordingly before the construction of those elements begin.

Prerequisites:

- Accepted Preliminary Bridge General Drawings
- Accepted Bridge Geotechnical Foundation Recommendations

List of Recipients:

- Division Construction Engineer
- Division Bridge Program Manager
- Resident Engineer
- Design-Build Unit
- Structure Management Unit
- Area Bridge Construction Engineer

BRIDGE / CULVERT RFC PLANS

A complete set of original design files and Project Special Provisions (PSP) shall be submitted concurrently with the RFC Plans for review. Structure Project Special Provisions may be found through the Design-Build website. The record plans, design files and Project Special Provisions shall be signed and sealed by a Professional Engineer registered in North Carolina.

List of Recipients:

- Resident Engineer
- Design-Build Unit
- Structure Management Unit
- Materials and Tests Unit (For Pre-stressed Concrete Bridges only)
- Area Bridge Construction Engineer
- Division Construction Engineer
- Division Bridge Program Manager

WORKING DRAWING SUBMITTALS

Working drawing submittals shall be in accordance with the 2012 "Submittal of Working Drawings" Project Special Provision available at the following site:

https://connect.ncdot.gov/resources/Structures/Pages/Project-Special-Provisions.aspx

Sufficient data and a copy of the applicable RFC Plans shall be submitted prior to, or with, the working drawings to facilitate review.

These submittals shall be routed in one of two ways. The manner in which the submittal will be routed will be at the discretion of the Resident Engineer and will be determined shortly after award of the contract. The submittal routing will be either Type "A" or Type "B" and will be consistently used for all working drawing submittals throughout the project's duration.

Type "A" working drawing submittals shall be submitted directly to the Structure Management Unit as directed by the aforementioned Project Special Provision. These submittals will not be routed through the Design-Build Unit and need not have the transmittal form.

Type "B" working drawing submittals shall be submitted to the Design-Build Unit and shall be covered with a transmittal form. All other aspects of the aforementioned Project Special Provision apply, including the concurrent submittal to the Resident Engineer. All Type "B" working drawing submittals shall include a submittal number with the prefix "WD-"

Responses to both Type "A" and Type "B" working drawing submittals will be routed directly to the Resident Engineer, with a copy of the response to the Design-Build Unit.

HYDRAULIC DESIGN

Hydraulic designs shall be incorporated into the Roadway Plans and submitted to the Department for review. Unless noted otherwise in the Request for Proposals, the Design-Build Team shall provide all Bridge and Culvert Survey Reports.

PRELIMINARY BRIDGE / CULVERT SURVEY REPORTS

The Design-Build Team shall provide Preliminary Bridge / Culvert Survey Reports for review.

Prerequisites:

- Accepted Preliminary Roadway Plans

List of Recipients:

- Design-Build Unit
- Hydraulics Unit

APPROVED BRIDGE / CULVERT SURVEY REPORTS

Upon acceptance from the Department, the Design-Build Team shall provide original hard copy of the Bridge / Culvert Survey Reports that are signed and sealed by a Professional Engineer registered in North Carolina for each of the Units noted below. **Any design modifications made after a Bridge / Culvert Survey Report has been approved by the Department shall require the Design-Build Team to revise, resubmit and redistribute the Report upon Department approval.**

Total Number Required: (5 Hard Copies)

- Design-Build Unit (1 Copy)
- Hydraulics Unit (1 Copy)
- Structure Management Unit (1 Copy)
- Geotechnical Engineering Unit Regional Office (1 Copy)
  - Sent directly by the DBT
- Resident Engineer (1 Copy)
  - Sent directly by the DBT

100% HYDRAULIC DESIGN PLANS

The Design-Build Team shall provide Hydraulic Design Plans, Design Calculations and Geopak / Microstation Files

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List of Recipients:

- Division Construction Engineer
- Resident Engineer
- Division Bridge Program Manager
- Design-Build Unit
- Hydraulics Unit

MOA PACKAGE

The Design-Build Team shall submit the MOA Package to the Design-Build Unit. The Department will submit the MOA package to NC Floodplain Mapping.

Prerequisites:

Accepted 100% Hydraulic Design Plans

List of Recipients:

- Hydraulics Unit (Electronic Files)
- Design-Build Unit (Electronic Files)

PERMIT DRAWINGS REVIEW SUBMITTAL

This submittal shall include all permit drawings, Project Special Provisions and documentation necessary for the Department to obtain the environmental permit(s) for each bridge. Prior to this submittal, the Design-Build Team is encouraged to coordinate with the Division Environmental Officer in order to ensure the correct permit drawings and documentation are being developed.

Prerequisites:

- Accepted Final Roadway Plans and 100% Hydraulic Plans
- Approved MOA Package from Hydraulics Unit (If Applicable)
- Accepted Erosion and Sedimentation Control Plans
- Accepted Utility Relocation Plans
- Accepted Preliminary Bridge General Drawings

List of Recipients:

- Design-Build Unit
- Hydraulic Unit
- Division Environmental Officer
- Division Bridge Program Manager
- Resident Engineer
- Area Bridge Construction Engineer

GEOTECHNICAL DESIGN

The Geotechnical submittals shall (if applicable) consist of permanent retaining wall layout, permanent retaining wall design, foundation design recommendation reports and soil improvement and reinforced fill designs.

Permanent Retaining Wall Layout

With the exception of standard gravity retaining walls, the Design-Build Team shall submit a wall layout and design for each retaining wall. The wall layout submittal shall include (1) wall envelope with top and bottom of wall, existing ground and finished grade elevations at incremental stations; (2) wall alignment with stations and offsets; (3) typical sections showing top and bottom of wall, drainage, embedment, slopes, barriers, fences, etc.; and (4) details of conflicts with utilities and drainage structures. This submittal shall also include calculations for bearing capacity, global stability and settlement.

Prerequisites:

- Accepted Preliminary Roadway Plans and x-sections at wall locations

List of Recipients:

- Resident Engineer
- Design-Build Unit
- Geotechnical Engineering Unit Regional Office

Permanent Retaining Wall Design

If temporary shoring is required to construct a retaining wall, submit the temporary shoring design as part of the permanent retaining wall design submittal.

Prerequisites:

- Accepted Retaining Wall Layout with each Retaining Wall Design

List of Recipients:

- Resident Engineer
- Design-Build Unit
- Geotechnical Engineering Unit Regional Office
- FHWA , if applicable

FOUNDATION DESIGN RECOMMENDATION REPORTS

A Structure Foundation Design Recommendation Report and a Roadway Foundation Design Recommendation Report shall be required for each bridge site. All Foundation Design Recommendation Reports, plans, Project Special Provisions and calculations shall be signed and sealed by a Professional Engineer registered in North Carolina.

List of Recipients:

- Division Construction Engineer
- Division Bridge Program Manager
- Resident Engineer
- Design-Build Unit
- Geotechnical Engineering Unit Regional Office

SOIL IMPROVEMENT AND REINFORCED FILL DESIGNS

Submit each soil improvement and reinforced fill design in two stages. The first shall be a conceptual design and the latter shall be a final design. The conceptual design shall be reviewed and accepted prior to submission of the final design. All designs shall be signed and sealed by a Professional Engineer registered in North Carolina.

List of Recipients:

- Division Construction Engineer
- Division Bridge Program Manager
- Resident Engineer
- Design-Build Unit
- Geotechnical Engineering Unit Regional Office

TRAFFIC CONTROL

The Traffic Control Plans shall be designed in accordance with the Request for Proposals.

TRAFFIC CONTROL PHASE SUBMITTALS

A separate submittal shall be required for each Traffic Control Phase unless prior approval of another submittal process is obtained from the Design-Build Unit.

Prerequisites:

- Accepted Preliminary Roadway and 100% Hydraulic Design Plans and x-sections

- Accepted Bridge / Culvert Preliminary General Drawings

List of Recipients:

- Division Construction Engineer
- Division Bridge Program Manager
- Resident Engineer
- Design-Build Unit
- Work Zone Traffic Control Unit
- Division Traffic Engineer

TRAFFIC CONTROL RFC PLANS

The Design-Build Team shall release Traffic Control Plans for construction one phase at a time, unless prior approval is obtained from the Design-Build Unit.

List of Recipients:

- Resident Engineer
- Design-Build Unit
- Work Zone Traffic Control Unit
- Division Construction Engineer
- Division Bridge Program Manager
- Division Traffic Engineer

SIGNING AND PAVEMENT MARKINGS

The Signing and Pavement Marking Plans shall follow the "Signing and Pavement Marking Design Guidelines for Design-Build Projects" located on the Design-Build website. Signing and Pavement Marking submittals shall be reviewed by the Signing Review Engineer at the following milestones:

100% FINAL SIGNING AND PAVEMENT MARKING PLANS

This submittal shall include signing and pavement marking plan view sheets with all signs located by station reference, sign designs, completed Type E and F sign sheets, ground-mounted sign support chart with support designs and design calculation information. This submittal shall also include the General Notes sheet with list of applicable Roadway Standard Drawings, a draft of Project Special Provisions (other than those prepared and sealed by NCDOT), and all signing sheets and supporting documentation. A 4½" x 4½" area for full size

sheets, directly below the project information block in the upper right corner of all sheets, shall be left blank and unobstructed.

List of Recipients:

- Division Construction Engineer
- Division Bridge Program Manager
- Resident Engineer
- Design-Build Unit
- Division Traffic Engineer
- Regional Traffic Engineer

RFC SIGNING AND PAVEMENT MARKING PLANS

This set of plans shall be clearly marked as RFC. All plans shall be signed and sealed by a Professional Engineer registered in North Carolina. This submittal shall include original set of Project Special Provisions signed and sealed by a Professional Engineer registered in North Carolina (see the Project Special Provision section of the Signing Design Guidelines for Design-Build Projects); (and all other supporting documentation.

Prerequisites:

- Field verification of "S" Dimensions for ground mounted and overhead sign assemblies (if applicable)

List of Recipients:

- Division Construction Engineer
- Division Bridge Program Manager
- Resident Engineer
- Design-Build Unit
- Division Traffic Engineer
- Regional Traffic Engineer

EROSION CONTROL DESIGN

All Erosion and Sedimentation Control Plans shall be reviewed and accepted by the Department for each bridge or culvert site before **any** land disturbing activities, including clearing and grubbing, can commence on that site. The RFC Erosion Control Plans shall only be deemed final after the roadway drainage design has been finalized and accepted by the Department. Specifically, acceptance of all Erosion Control submittals shall be contingent on acceptance of the

roadway drainage design. Design modifications developed after acceptance of the RFC Erosion Control Plans shall require the Design-Build Team to submit Intermediate Erosion Control Plans for review and acceptance as noted below. Each plan submittal shall include all pertinent design information required for review, such as design calculations, drainage areas, etc.

The NCDOT Roadside Environment Unit (REU) will provide a sample set of Erosion and Sedimentation Control plans and Microstation Erosion Control workspace to the Design-Build Team upon request. The Design-Build Team shall coordinate a pre-design meeting between the NCDOT REU Soil and Water Engineering Section, the Design-Build Team and other pertinent NCDOT personnel before beginning the erosion control design. The Department shall only review Erosion and Sediment Control Plans after the aforementioned pre-design meeting. Release for Construction (RFC) Erosion Control Plans shall be reviewed and accepted by the NCDOT REU prior to distribution of RFC Erosion Control Plans to all NCDOT personnel listed below before **any** land disturbing activities, including clearing and grubbing, shall commence.

EROSION AND SEDIMENTATION CONTROL PLANS

Prerequisites:

- Provide Roadway and 100% Hydraulic Design Plans and x-sections

List of Recipients:

- Division Construction Engineer
- Division Bridge Program Manager
- Resident Engineer
- Design-Build Unit
- Roadside Environmental Unit
- Roadside Environmental Field Operations Engineer
- Division Environmental Officer

RFC EROSION CONTROL PLANS

This submittal includes the RFC Roadway Plans and x-sections, Project Special Provisions and Permit Drawings. Erosion Control Special Provisions are available through the Design-Build website.

List of Recipients:

- Resident Engineer
- Design-Build Unit
- Roadside Environmental Unit
- Roadside Environmental Field Operations Engineer

- Division Environmental Officer
- Division Construction Engineer
- Division Bridge Program Manager
- Area Bridge Construction Engineer

FINAL SUBMITTAL

Upon all RFC Plans acceptance for each site, the Design-Build Team shall provide both electronic and hard copies of all bridge replacement plans included in the project. The hard copies shall adhere to the NCDOT Design Manual's plan preparation format.

List of Recipients:

- Resident Engineer (1 Full-size and 1 Half-size)
  Design-Build Unit (DVD of all Microstation, pdf and Geopak Files)

AS-CONSTRUCTED / AS-BUILT PLANS

Upon acceptance of the project, the Design-Build Team shall provide a complete set of plans.

List of Recipients:

- Resident Engineer (1 Full-size and 1 Half-size)
- Design-Build Unit Electronic Copy

END OF DOCUMENT