



NORTH CAROLINA

Department of Transportation



Plans, Specifications and Estimate (PS&E)

PTP Lunch and Learn Workshop - October 9, 2024

Stephen Robinson, NCDOT Division 7 District Engineer

Plans

- Construction Plans are prepared in accordance with the current (2024) NCDOT Standard Specifications for Roads and Structures as stated per the municipal agreement.
- Phases of Plans
 - No more than 25% (Concept/Preliminary Plans)
 - 65%-75% (ROW Plans)
 - 80%-100 (Final Plans and Specifications)

Plans (Cont'd)

- Plans need to be complete for the appropriate phase. Attention to detail.
 - Correct cover sheet with TIP and WBS
 - Consistent line types and required legends
 - Consistent scale throughout plan set
 - Accurate and complete index of sheets
 - Spelling correct
 - Standard details as needed
 - Identify ROW (existing/proposed) and easement limits (PDE's, TCE's, sidewalk easements)

Plans (Cont'd)

- Complete set of plans for the appropriate type of project
 - Typical sections, survey control, drainage summary, roadway, erosion control, traffic control (detours, pedestrians, etc.) utility relocation and construction, cross-sections, etc.
- Possible combination of plan sheets
- Review plans for constructability and utility conflicts

Plans (Cont'd)

- Tips
 - Use Department standards first. If none exist for an item, use LGA's or which ever is more stringent.
 - Check all proposed construction items on bid form to confirm consistency with the plans

Plans (Cont'd)

- Sidewalks and Curb Ramps
 - ADA Compliance
 - What types of ramps are going to be most effective given the various crossing patterns, traffic, and preference? IDENTIFY THEM
 - When designing the new or retrofit ADA travel path, any existing infrastructure should be modified as needed to present a completely ADA acceptable route (technically feasible)
 - Has all existing infrastructure within project limits been evaluated for existing ADA compliance?

Plans (Cont'd)

- ASK YOURSELF!
 - Overall as a contractor can I bid this?
 - How will I bid this?
 - If I was awarded the contract can I build this with these plans?
 - Where will I potentially require more info?
 - Where will I potentially have a claim for more time or money?

Specifications

- Contract Proposal (Bid document with references to Standard Specifications and Special Provisions) will include Federal or State provisions that apply to the entire project.
- Depending on scope and size of project, plans and proposal are reviewed at either the Division level or Central level (Raleigh).

Specifications

- Central
 - Over \$2.5 million construction estimate
 - Complex – Drainage, Geotech, Structures
- Don't use ADA or EJCDC front end documents - causes conflicts!
- Proposal should not have any previous project descriptions, no misspelled words, or grammar errors.

Specifications

- Ensure pay items are complete and match what is in the line item proposal
- Make sure requested changes from previous submittals are incorporated in final submittal
- Typical submittal – 30 day turnaround
- NCDOT bond forms and correct insurance bond amounts (\$5,000,000 per occurrence and general aggregate)

Construction Authorization

- Requirements for Authorization of Construction Funds
 - Approved PS&E Package (Plans, Specifications, Engineers Estimate)
 - Approved Environmental Document (CE, MCC, etc.)
 - ROW/Utility/RR Certification

RIGHT OF WAY FIELD CERTIFICATION

TIP No. 33-5101 D3
 WBS Element: 41824.2
 County: Charlotte
 Description: Phase 2 of the Downtown Greenway in Greensboro to include Marrow Blvd. from Lee Street to Fisher Avenue and along Fisher Avenue from Marrow Boulevard to Eugene Street

NO Right-of-way conflicts present on project
 ROW assumed by the City of Greensboro

In connection with the above-referenced project, I certify that there were no persons displaced for this project or that all individuals and families have been relocated to DHS housing, or that comparable replacement housing has been made available to relocatees in accordance with applicable Federal and State laws and regulations. The steps relative to relocation advisory assistance and payments as required by current FHWA directives covering the administration of the Highway Relocation Assistance Program have been taken, or that they are not required. I further certify that one of the following has application:

1. All necessary right of way has been acquired or the State has legal right of physical possession of that right of way.

or

2. The acquisition or right of occupancy and use of a few remaining parcels is not complete, but all occupants of the residences on such parcels have had replacement housing made available to them in accordance with 49 CFR 24.204. I assure that, if the physical construction of the project proceeds, displaced persons who have not yet moved from the right of way will be protected against unnecessary inconvenience and disproportionate injury or any action coercive in nature. I believe that it will be in the best public interest to proceed with this project. The following information is provided regarding exceptional parcels and will be provided in the contract documents. These parcels will require delays of entry noted as follows:

TIP/PARCEL	PROPERTY OWNER	REASON FOR DELAY REQUEST	RELO (Y/N)	DELAY OF ENTRY (WEEKS)

This certification assures compliance with all applicable Federal and State laws, rules and policies.

Date: 01-10-17 Heather E. Egan
 DIVISION RIGHT OF WAY AGENT

FRM3-C
12-9-2011

Constr. Authorization (cont'd)

➤ Executed Municipal Agreement with Construction phase

NORTH CAROLINA	LOCALLY ADMINISTERED PROJECT - FEDERAL
ALAMANCE COUNTY	
	DATE: 3/5/2018
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
	TIP #: EB-5884
AND	WBS Elements: PE 47280.1.1
	ROW 47280.2.1
CITY OF GRAHAM	CON 47280.3.1
	OTHER FUNDING: TAP-0087(042)
	FEDERAL-AID NUMBER:
	CFDA #: 20.205
	Total Funds [NCDOT Participation] \$171,000
<p>THIS AGREEMENT is made and entered into on the last date executed below, by and between the North Carolina Department of Transportation, an agency of the State of North Carolina, hereinafter referred to as the "Department" and the City of Graham, hereinafter referred to as the "Municipality".</p>	
<u>WITNESSETH:</u>	

Construction

- Advertising and Letting a Construction Contract can only occur after Construction funds are authorized.
- Contract Administration is accomplished by the LGA (CEI) in accordance with the NCDOT Construction Manual, Standard Specifications and Drawings.
- NCDOT will provide oversight through the Division Office

Questions??

- Contact Information

Stephen Robinson

Division 7 District Engineer

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