Integrated Project Delivery Team

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Integrated Project Delivery

PROJECT DELIVERY VISION:

A CULTURE where we PROMISE WHAT WE ARE GOING TO DO and DELIVER WHAT WE PROMISE
THE IPD TEAM

- DOT staff working with nationally recognized experts
- Evaluating existing business practices
- Researching and assessing best practices
- Identifying opportunities for improvement
- Creating an integrated project management process
- Developing an implementation plan and training

The Department has already begun to see the benefits of these efforts and we anticipate full implementation to occur over the next 12 months.
PURPOSE & OVERVIEW
The purpose of this guide is to provide NCDOT Project Managers with a standardized reference tool to help guide them through the steps of the NCDOT project development process.

Who is this guide for?
- NCDOT Project Management Unit staff
- NCDOT Division Project Managers
- Private Engineering Firm (PEF) Project Managers that work on behalf of NCDOT

How to use this guide
This guide contains informational text, diagrams, and links to other policy and procedures documents, work product templates, and other useful resources.

This guide is an interactive PDF - buttons are hyperlinked – click on them to navigate within the document and to access additional resources.
1. Project Development Process Maps

Purpose

Provide Project Managers with a standardized reference tool

Audience

• NCDOT Project Managers
• Private Engineering Firm Project Managers
Project Development Process Maps

Project Development Overview

1. PROJECT PLANNING PHASE
   - MPO/RPO/NCDOT Transportation Planning Division
   - NCDOT Feasibility Studies Unit
   - NCDOT Strategic Prioritization Office
   - CTP
   - Express Design Evaluation & Project Scoping
   - SPOT
   - STIP
   - NCDOT Central or Division Managed?

2. ENVIRONMENTAL ANALYSIS & DEVELOPMENT PHASE
   - NCDOT Project Management Unit and Technical Services Units
   - Environmental Analysis & Development

3. FINAL DESIGN PHASE
   - Final Design
   - Right of Way Acquisition
   - LET

HOME  Symbology  Timeline
Project Development Process Maps

Environmental Documentation

Technical Studies
- Consultant NTP
- Project Kick-off Meeting
- Project Initiation and Data Requests
- Cultural Resources Screening
- Geoenvironmental
- Crashes
- Traffic Forecast
- Environmental Features Map
- Project Data Sheet
- SOS Comments
- No-Build Traffic Capacity Analysis
- P&N Statement
- Alternative Concepts
- Alternatives
- Memo
- Preliminary Designs
- Hydraulics Aspects
- NRTR
- CIA/LUSA
- Traffic Noise
- 4(f) Cultural Resources

Project Scoping
- Merger Screening
- CP1
- CP2
- CP2A
- CP3/4A
- Public Meeting #1
- Public Meeting #2
- Newsletter

Categorical Exclusion
Project Development Process Maps

Project Scoping

1. Start Project Scoping
   - Data from Project Initiation & Data Requests
   - PEF prepare Project Data Sheet
   - PEF prepare Environmental Features Map

2. Internal Scoping Meeting
3. Start of Study Notifications
4. External Scoping Meeting/Merger Screening
5. End of Project Scoping

Purpose & Need

Merger Screening

ncdot.gov
Project Development Process Maps

Purpose & Need

Start Purpose and Need

PEF prepare No-Build Traffic Capacity Analysis

PEF prepare Draft P&N Statement

CP1

Purpose and Need Statement

End of Purpose and Need

Alternatives Development

Data from Express Design Evaluation & Project Scoping Process

Traffic Forecast

Crash Data & Analysis
This Example:
Embedded hyperlink directs user to online guidance
2. Deliverables Guide for Projects Covered by a Type III CE

Purpose

Provide information on the required project deliverables needed to keep a project on schedule

Audience

• Project Managers
• Private Engineering Firm (PEF) Project Managers
Type III CE Deliverable Guide

Deliverable types:
- Report
- Agreement
- Request
- Design & Data
- Permit

Deliverables List for a Type III Categorical Exclusion
Work Zone Plans (Concept)

Deliverable types:
- Report
- Agreement
- Request
- Design
- Permit

Deliverables List for a Type III Categorical Exclusion
A Summary of the Deliverable is Shown

Work Zone Plans (Concept)

**Description:** Plans developed to lay out lane closure and other traffic control measures that will be undertaken during construction.

**Applicability:** Projects with over 7,500 ADT and either lane closures or detours (check with Work Zone Traffic Control Unit).

**Predecessor / Successor:** 25 Percent Plans, Environmental Document, may be done after 65 Percent Plans if hydraulics issues are complex / Field Inspection after 65 Percent Plans, 90 Percent Work Zone Plans

**Developer:** NCDOT or Consultant

**Reviewer / Approver:** Work Zone Traffic Control Unit

**Review Timeframe:** No regulatory requirement

**Where Stored on SharePoint:** Disciplines > Work Zone Traffic Control > WZ Topic: PDF Plans

**Common Issues:** Make sure consistent with current roadway design and hydraulic design; Congestion, bike and pedestrian effects

**Suggested Improvements:** To be added

Return to Main Chart
We are asking NCDOT staff to suggest ways to improve each deliverable

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**Suggested Improvements:** To be added
3. General Engineering Services Consultant (GESC) Guidelines

Purpose
- Provide information on how project managers can use general engineering services consultants (GESCs)

Audience
- Project Managers
GESC Roles

- Scope Development and Review
- Schedule Development and Administration
- Man-day Estimates
- Environmental Documents and Design Plan Reviews
- Project Management
- Supplemental Design Services
GESC Products Still Under Development

• Scoping Level of Effort Guidance
• Scope of Services Templates
• Cost Estimating Guidance
• Negotiating Equitable Contracts Training
Other Initiatives

• Project Management Roles and Responsibilities Manual
• Streamlined Project Development Process Map
• Project Management Guidelines
Web Address

Connect NCDOT

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