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David Chang, PhD, PE
Don Lee, CPESC

FROM: Karen Capps, PE
Design-Build Squad Leader

DocuSigned by:
Karen B. Capps
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DATE: June 15, 2016

SUBJECT: Project 46265.3.1 (I-5338) Wake County
US 70 / US 401 (South Saunders St.) Interchange Improvements

Combined Field Inspection

We have completed the preliminary plans for the above project and would like to review them in the field with all personnel involved. In accordance with Dennis Jernigan, PE Division Construction Engineer, the field inspection will be held on July 12, 2016 at 1:30 PM in the DOT Structure Design Conference Room located at 1000 Birch Ridge Drive, 27610, Raleigh, NC. In addition a call in number has been provided in the event you cannot attend in person. The call in number is 919-662-4555. Plan sheets and cross sections, in PDF format, are available electronically for your review and reside at the following location:

https://xfer.services.ncdot.gov/TechSvcs/Design-Build/I-5338_I-5311/

This field inspection is a critical step in the Plan & Permit Review Process. It is imperative that design and construction issues be discussed and finalized during this meeting (see attached checklist). These issues include construction limits, drainage, right of way, and utilities. Any design features that affect slope stakes, especially in environmentally sensitive areas (ESA), should be finalized at this meeting. Also, if this project contains any new or unique construction techniques, processes, and / or products that are unfamiliar to the Department, Division, or the assigned Resident Engineer, please notify us so that special provisions, details, technical bulletins, etc. can be provided prior to the field inspection.

Please note that this plan set will NOT be constructed as part of Design Build project, I-5338 / I-5311 I-40 pavement reconstruction. This plan set is currently unfunded and does not have an anticipated ROW authorization date or Let date.

Under separate cover, we are forwarding eight sets of Roadway plans to the Division Construction Engineer. If you would like the CADD files or hard copies of the plan set for this project, or if you have any additional questions or comments on this project prior to the field inspection, please send your request to Jason Talley, PE at jason.talley@rsandh.com or 919-926-4106. The field inspection questions have been e-mailed to the Division Construction Engineer.

I request the Division Construction Engineer contact the proper city officials and furnish them a set of plans for their use in the field inspection.



KBC/jmt

Attachment

ec: Patrick Norman, PE
Carey Muse
Charles Brown, PE, PLS
Stuart Bourne, PE
Majed Al-Ghandour, PhD, PE, CPM
Danny Smith
Ron King, PE
Aaron Earwood, PE
LeiLani Paugh
Chris Rivenbark
Byron Moore, PE
Neil Medlin
Cyrus Parker, LG, PE
Zak Hamidi, PE
Chad Hinnant
Reid Elmore
Glenn Mumford, PE
John Pilipchuk, LG, PE
Greg Fuller, PE
Barry Whitaker
Jessica Kuse, PE
Felix Davila, PE
Rupal Desai, PE
Donald Pearson, Jr., EI, CPESC
Colin Mellor
Clark Morrison, PhD, PE
Kelly Becker, PE
Rob Hanson, PE
Jeremy Goodwin, PE, CPESC, CPSWQ
John Gracey
Al Grandy
Heather Montague

FIELD INSPECTION CHECKLIST

(Note to Squad Leader: Add any other issues that need to be addressed at the field inspection)

- ☐ During the field inspection, the Division, Structures, and Roadside personnel need to review the constructability issues on all structures in the permitted areas. This includes:
 - Proposed bridges: construction method (such as top down construction, temporary bridge, causeways, etc.) and needed temporary easements.
 - Existing bridges: method of removing superstructure and substructures and needed temporary easements.
 - Box culverts: construction sequence of culverts, location of diversion channels, and needed temporary easements for their tie-ins to the streams.
 - Cross pipes: pipe burying depths, diversion channels, and needed temporary easements.
- ☐ Review environmental commitments (attached)
- ☐ Are historic properties and / or archeological sites clearly identified on the plans? Do the commitments clearly explain how the impacts to these sites will be avoided or minimized?
- ☐ Review draft project special provision (if applicable) for unique construction technique, process, and / or product with Division Construction Engineer and *field inspection attendees (be specific)*. Discuss need for internal and / or external constructability review, technical bulletin, and training based on unique item.
- ☐ Are there any temporary pedestrian impacts listed on the list of Environmental Commitments (green sheets) for this project? Are pedestrian mitigation measures incorporated into the design plans? Are mitigation measures Americans with Disabilities Act (ADA) compliant?
- ☐ What is the preferred order of R/W acquisition? Based on the likely construction phasing and utility relocations needed for this project, what parcels should be settled earliest? Unless otherwise directed, relocatees will be contacted first.

PROJECT COMMITMENTS

I-40/US 64 PAVEMENT REHABILITATION AND WIDENING FOR MAINTENANCE OF TRAFFIC

From west of SR 1319 (Jones Franklin Road) to
east of Exit 301 (I-40/I-440/US 64 Interchange)
Wake County, North Carolina

WBS No. 46157.1.1
Federal Aid No. IMS-040-4(147)298
TIP PROJECT No. I-5338

Commitments Developed through Project Development and Design

Communications Office

- Public outreach prior to and throughout the construction phase of this project is critical to minimize secondary impacts on communities in Raleigh, Cary and Garner. This should include the development and implementation of an outreach program to provide timely information to local governments, media outlets, businesses, visitor bureaus, transit operators, the traveling public, and others on travel conditions and construction activities. Develop and implement a public outreach program for the proposed project prior to and during construction.

Transportation Program Management/Work Zone Traffic Control/Communications Office/ ITS and Signals/Division 5 Construction/Division 4 Construction

- Develop and implement a Final Transportation Management Plan (TMP) for the proposed project prior to and during construction.

Transportation Program Management/Division 5 Construction

- Utility conflicts, including any/all relocations, within the project limits will be identified during the design phase and resolved prior to or concurrent to construction.

Transportation Program Management/Work Zone Traffic Control/ Division 5 Construction

- Final Work Zone, Traffic Control and Construction Phasing will be developed during final design and implemented prior to and during construction.

PROJECT COMMITMENTS

Project Development & Environmental Analysis

(PDEA)/Hydraulics/Transportation Program Management/ Division 5 Construction

- Based on input from the NC Department of Natural Resources – Division of Water Quality, no net increase in discharge of stormwater is the desired goal of the project. It is preferred that this be accomplished by on-site detention. This will be addressed during the design phase prior to permitting.

Project Development & Environmental Analysis (PDEA)/Hydraulics/ Transportation Program Management/ Division 5 Construction

- Anticipated impacts to streams and wetlands were developed utilizing preliminary hydraulic review of the existing facility and the proposed improvements on aerial mapping (functional design). A more exacting quantity of streams and wetlands impacts will be compiled during final design of the project. Avoidance and minimization measures will be employed in the development of the construction plans with regards to impacts to streams and wetlands.

Transportation Program Management/Communications Office/Division 5 Construction

- Prior to and during construction a minimum of four (4) week advance notice of construction activities, including anticipated construction phasing, in each direction of I-40/US 64 will be provided to the following entities:
 - Wake County Public School System's Transportation Department in order to re-route buses.
 - City of Raleigh Police, Fire and EMS Departments;
 - Town of Garner Police, Fire and EMS Departments;
 - Wake County Sheriff Department;
 - Wake County EMS;
 - NCDOT-IMAP, and;
 - State Highway Patrol.