PROJECT INITIATION FORM

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| **SPOT id:** H193374 | | | **STIP DESCRIPTION: Improve the intersection of W. NC 152 and Deal Rd.** | | | | | | | | |
| **Division:** 9 | **COUNTY:** Rowan | | | | | **row date:** | | | | | **let date:** |
|  | | | **EXISTING FACILITY Characteristics:** | | | | | **PROPOSED FACILITY CHaracteristics:** | | | |
| Functional Classification: Minor Arterial  Existing No. of Lanes: 2  Existing Median: No  Existing control of access: No Control  Posted Speed: 45/55 mph  AADT 18:  W. NC 152: 8700-9400 vpd  Deal Rd: 4400 vpd  Right-of-Way Width: 60’  Structures:  Culvert(s) Number, Size(s)  Bridge(s) Number, Size(s) | | | | | Proposed Functional Classification: Minor Arterial  Proposed Typical Section: Choose an item.Roundabout  Proposed No. of Lanes: 2  Addition of Median(s): Yes  Proposed control of access: No Control  Design Speed: 30 mph  AADT:  Right-of-Way Width: 60’ baseline  Structures:  Culvert(s) Number, Size(s)  Bridge(s) Number, Size(s) | | | |
| **project description:** *Include project scope and location, including municipality and county.* | | | | | | | | | | | |
| This project is to improve the intersection of W. NC 152 and Deal Rd./Concordia Church Road by constructing a roundabout. The intersection is located in China Grove, Rowan County. The roundabout has an inscribed diameter of 150’ with an 18’ circulating roadway. The truck apron in the center of the roundabout is 20’ wide. The design lane width is 12’. There are splitter islands and curb and gutter. | | | | | | | | | | | |
| **Cost estimates:** | | | | | | | | | | | |
| Construction: $1,600,000 Right-of-Way: 913,000  Utilities: $800,000 ITS: 0 | | | | | | | | | | | |
| **FINDINGS AND RECOMMENDATIONS:** | | | | | | | | | | | |
| The center of the roundabout is offset from the intersection, in the parcel of Alexander’s Country Ham Shop. The existing Y split at the Deal Road is incorporated into one of the legs of the roundabout. There are 20 Duke distribution poles and 15 two-cable telephone poles that will have to be relocated. There are partial right of way impacts to three residential parcels, one commercial parcel, and the firehouse on the northeast quadrant of the intersection. It is recommended to acquire two commercial parcels, Alexander’s Country Ham Shop and Steve’s Corner Store. It might be possible to avoid a total take of Steve’s Corner Store. Further evaluation is needed.  There arefour species that are identified on the Endangered and Threatened Species and Species of Concern for Rowan County list. Further evaluation is needed to determine if the project will affect these species. The minority population is around 8% in the project area. The impoverished population is around 7-11% in the project area. There are not many residential impacts caused by the project. There are two proposed commercial displacements. The remaining right of way impacts are partial. The Irish Buffalo Creek is barely 1000’ within project limits. It is listed as a 303(d) stream and has a wetland around it. The stream and the wetland should not be affected by the project. There was a high-risk UST incident at Curt’s Kwick Stop in 1994. Further evaluation is needed. There should not be substantial disruption due to maintenance of traffic for this project. Coordination with the fire station on Concordia Church Road is recommended. There are areas of prime farmland and farmland of statewide importance within the project area. Further evaluation is needed. There was an off-road bike crash on a parcel off the project corridor in 2011. There is a church and cemetery within 1000’ of the project area. These locations will not be impacted by the project. | | | | | | | | | | | |
| **Document TYPE:** | **MERGER:** | | | **PROJECT TYPE:** | | | **FUNDING:** | | | **CONTRACT TYPE:** | |
| CE/MCDC  EA/FONSI  EIS | MERGER  NON-MERGER  Screening Date: | | | dIVISION  Central | | | Federal  State | | | Design Bid Build  Design Build  Construction Manager  Progressive Design Build | |
| **Project History** | | Planning Studies: W. NC 152 is noted as needs improvement through the project intersection in the Cabarrus-Rowan Metropolitan Planning Organization Comprehensive Transportation Plan. | | | | | | | | | |
| SPOT Descriptions: *Provide the project description from the most recent SPOT analysis.*  The SPOT description is “improve the intersection with construction of a roundabout.” | | | | | | | | | |
| Feasibility Studies: *Describe any feasibility studies that include the project corridor.*  N/A | | | | | | | | | |
| Problem Statement: *Provide any previous problem statements from the CTP/MTP or Feasibility Study.*  N/A | | | | | | | | | |
| **Purpose and need** | | Purpose: *Provide the purpose of the project, if one has been identified in prior planning studies.*  The purpose is to improve safety and mobility at this intersection. | | | | | | | | | |
| Need(s): *Include the identified need for the project as defined on the Identified Need form or other available information.*  The Division noted that the intersection has “severe safety problems.” | | | | | | | | | |
| Supporting Data: *Are there any studies or other documents that demonstrate the need for the project? For example, if the project is needed because of traffic congestion, has a forecast been prepared?*  There were 28 crashes at this intersection from 2015 to 2019, two of which resulting in fatalities. | | | | | | | | | |
| **ALTERNATIVES being considered** | | Alternative 1: N/A | | | | | | | | | |
| Alternative 2: N/A | | | | | | | | | |
| Alternatives Previously Dismissed and Why: N/A | | | | | | | | | |
| **Public/ agency coordination** | | Anticipated Permits: *Describe potential 404 permitting and any other anticipated permits (CAMA, FERC, TVA, US Coast Guard, etc.)*  There are no anticipated permits for this project. | | | | | | | | | |
| Federal Agency Involvement: *Who Is the lead federal agency? Which agencies will be involved?*  It is likely that the FHWA will be the lead agency. | | | | | | | | | |
| Public Involvement Strategy: *This is different and more inclusive than a Public Involvement Plan. A public involvement strategy is dynamic and subject to change.*  Further evaluation is needed. | | | | | | | | | |
| Potential Merger Issues: Further evaluation is needed. | | | | | | | | | |
| **Preliminary resource inventory table** | | *Check all resources that are likely to be impacted or involved in the project based on the Project Scoping Process. Refer to the Project Scoping Technical Report and Project Scoping Screening Checklist for additional information.* | | | | | | | | | |
| **Natural Environment** | | | **Human Environment** | | | | **Physical Environment** | | |
| Stream(s)  Wetland(s)   Water supply watersheds or critical area(s)  CAMA Area(s) of environmental concern  T/E species or potential habitat  Protected land(s)  FEMA resource(s)  Riparian buffer(s) Other | | | Historic site(s)/district(s)  Cemetery(ies)/archaeological resource(s)  EJ community(ies)  Section 4(f) resource(s)  Section 6(f) resource(s)  Unusually large number of relocations  Other: Fire station | | | | Utilities  Hazardous material(s)  Active agriculture  Prime or important farmland soil  Air quality non-attainment or maintenance area  Type I noise project  Other | | |