

# Utilities Analysis and Routing Report (final)

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**UARR (f)**

**TIP X-xxxx / ##### WBS**

Fill in the TIP number with breakdown and the project definition only (don't need the PE or RW numbers here, just the 5 numbers).

**XXXXXXXXXX County**

## Project Location

This is the project location as identified on the project Title Sheet.



**North Carolina Department of Transportation**

**Utilities Unit**

1555 MSC

Raleigh, NC 27699

(919) 707-6690

Fax: (919) 250-4151

**Written by:**

**Author**

**Date**

**PSF letterhead or Logo**

**PSF address and telephone**

## **Purpose of UARR (f)**

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This document establishes a basis for agreement between NCDOT and interested parties for the

- recognition of utility conflicts with the current project design after mitigation efforts,
- recognition of responsibilities for costs, design, permitting, and construction to resolve the conflicts,
- recognition of project schedules, and
- recognition of probable solutions compatible with other utilities, environmental constraints, and the project design and construction.

## **Executive Summary**

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This highway project has potential conflicts with the following utilities:

**This is a quick review of the project. It is important to be concise and as accurate as possible. Generally, those who are not interested in the details will only read this part. Use simple language.**

**Each utility should have a quick glance statement of how much work, time, and cost are expected due to the current project design. These will be used for budgeting of resources and funds. The final costs should be less than these estimates; however, we don't want to be alarmists or exaggerate our assessments. The support documentation of these estimates should be detailed in other parts of this report.**

- Water
  - [Text](#)
- Sewer
  - [Text](#)
- Gas
  - [Text](#)
- Power
  - [Text](#)
- Telephone
  - [Text](#)
- CATV
  - [Text](#)

## **Project Information**

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### ***General Highway Project description***

#### **Text**

Provide a brief description of the highway project and special features. Limit the paragraph to less than 5 sentences. The information should include:

- the general purpose and need of the project, such as “widening a 2 lane road to multilane divided for congestion reduction,” “Rehabilitation of pavement and drainage,” “new location roadway in urban area,” “conversion of highway control of access,” “adding turn-lanes,” etc.;
- any special or unique features of the project: such as “Superstreet design,” “Diverging diamond intersection,” “Roundabout,” “highly sensitive environmental areas,” etc.

### ***Clear Recovery Distance***

#### **Text**

This information comes from the Roadway Design Unit. The Utilities Unit is not empowered to make decisions about the clear zone. We should reference the source of this information: such as “Project Scoping Sheet dated \_\_\_\_\_,” “email correspondence between \_\_\_\_\_ and \_\_\_\_\_ on \_\_\_\_\_,” etc.

### ***Control of Access Requirements***

#### **Text**

This information comes from the Roadway Design Unit. We should reference the source of this information: such as “Project Scoping Sheet dated \_\_\_\_\_,” “email correspondence between \_\_\_\_\_ and \_\_\_\_\_ on \_\_\_\_\_,” etc.

Examples of C/A descriptions are: “Full Control of Access,” “Limited Control of Access with at-grade intersections,” “Partial Control of Access with one access point per parcel”, “Special Control of Access,” “Mixed Control of Access,” etc.

## Project Contacts

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NCDOT Utilities Project Design Engineer: .....name  
telephone: 919.707.#### .....email: xxxxx@ncdot.gov  
NCDOT Utilities Coordinator: .....name  
telephone: 919.707.#### .....email: xxxxx@ncdot.gov

## Current Schedule of Project

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Final R/W Plans.....date  
Let .....date

**This is the schedule as of the date of this report.**

## Record of Actions

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UARR (p) .....date  
Utility Construction Requests (including betterment requests) .....date  
SUE Level A requests received .....date  
Preliminary Utility Easement Requests .....date  
Utility Designs (final) from Utility Owners.....date  
Final Utility Easement Requests .....date  
Preliminary Utilities by Others plans.....date  
Final Design Field Inspection.....date  
Concurrence by Utility Owner of UARR .....date  
UARR (f) .....date

**Actual dates these actions occurred.**

## Future Schedule of Actions prior to Letting

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Utility Authorizations .....date  
Utility Environmental Permit Submittal.....date  
Utility Easements obtained .....date  
Environmental permits received for Utility Relocations .....date  
Utility Relocations begin .....date  
Utility Construction Agreement Plans .....date  
Utility Construction Final PS&E.....date  
Utilities by Others Final Plans and Provisions.....date  
Utility Relocations complete .....date  
Utility Construction Agreements executed by owner (U&O or UA).....date

**These dates are identified for the agreed upon schedules of the project. The schedule should be acceptable to NCDOT and the Utility Owner.**

## **Utility Owner Contacts, Utility Designers, and preliminary Cost Responsibilities**

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This information should have the names and contact information for:

- Utility Owner primary contact
- Utility Owner decision maker
- Utility designer for the utility on this project

Also, write an assessment of cost responsibilities and data provided to demonstrate any prior rights.

Include estimates of the costs for the relocations with breakdowns by owner, responsibility, and type (engineering, construction, easements, inspection, permit fees). Attach spreadsheets as needed for calculations.

**Water – (name of Utility)**

Text

**Sewer – (name of Utility)**

Text

**Gas – (name of Utility)**

Text

**Power – (name of Utility)**

Text

**Telephone – (name of Utility)**

Text

**CATV – (name of Utility)**

Text

**Other (name of Utility)**

Text

## **Utility Easements (Existing and Proposed)**

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Text

Briefly describe any existing utility owner easements with the source of information. Describe in general the areas where replacement utility easements will be needed. Identify who will purchase/obtain the easement, whose cost responsibility, and who will own the easement. Include plans with the utility easements shown on the project RW plans.

## **Survey Data Obtained and Analyzed**

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Text

Briefly describe what survey data was obtained.

## **Project Design Accomplishments for Utilities**

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For each utility, generally describe the design efforts and means that were pursued and the outcome for eliminating utility facility conflicts through highway project design. Identify where cost sharing is a part of the solution.

**Water – (name of Utility)**

Text

**Sewer – (name of Utility)**

Text

**Gas – (name of Utility)**

Text

**Power – (name of Utility)**

Text

**Telephone – (name of Utility)**

Text

**CATV – (name of Utility)**

Text

**Other**

Text

## **Permit Needs**

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***DENR Water or Sanitary Sewer***

Text

Describe whether new or updated permits will be required for the relocations and who is responsible for obtaining.

***Railroad Permits***

Text

Describe whether new or updated permits will be required for the relocations, the RR owner name, and who will be obtaining the permit.

***Environmental Impacts***

Text

Describe whether any of the utility relocations will require permitting for wetlands, stream impacts, CAMA, buffer zones, erosion control, etc. Identify entity that will be responsible for preparing and for obtaining the permit. Describe whether there are historical properties requiring permits.

## **Coordination and Constructability**

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### ***Traffic Control Needs***

Text

Describe whether separate traffic control plans are needed for any utility relocation or if the traffic control will be included in the DOT contract. Who was coordinated with in the Traffic Management Unit?

### ***Division Construction Review***

Text

List any concerns the Division has provided.

### ***Constructability Issues***

Text

List any concerns such as trenchless methods, staging areas, whether the utility relocation will require coordination with the project construction stages, etc.

### ***Utility Owner's Comments***

Text

List any information provided by Utility Owners requiring coordination during the design and construction of the project.

### ***Utility Relocation Durations and Staging***

List the agreed upon durations for designing, material ordering, and construction of relocations. List whether the work is dependent on other actions, such as: environmental permit, R/W and easements obtained, building removals, grading, another utility to move, etc.

Use these durations in developing the future schedule dates listed earlier in this report.

*Water – (name of Utility)*

Text

*Sewer – (name of Utility)*

Text

*Gas – (name of Utility)*

Text

*Power – (name of Utility)*

Text

*Telephone – (name of Utility)*

Text

*CATV – (name of Utility)*

Text

*Other*

Text

## **Correspondence, References and Appendices**

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UARR plans

SUE requests and data

UCR

Utility Easement Requests

Preliminary UbO plans

Estimates

Utility Owner concurrence of UARR

**Text**

**Attach copies of the above data and any other relevant data.**



## **Detailed Analysis - Roadway Sheet x**

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The information in the section should be shown on plan sheets especially when graphically possible and well labeled.

### **Existing Water or Sewer Line-**

#### **Conflict:** Text

Identify the location (such as from Station \_ to Station \_) and the reason for the conflict (such as: “Interference with proposed drainage,” “Existing utility material structurally inadequate for proposed loads,” “NCDOT policy requires relocation,” “Proposed earth cut exposes utility,” “facility in the clear recovery area,” etc.

#### **Proposed Conflict Resolution and Routing:** Text

How will the conflict be resolved? Examples are: “Utility will be lowered prior to highway project,” “utility will be removed after replacement in \_\_\_ location and prior to project letting,”

#### **Betterment and Proposed facilities:** Text

Describe betterments such as upsizing, material quality improvements, or extensions.

### **Existing Gas Line-**

#### **Conflict:** Text

Identify the location (such as from Station \_ to Station \_) and the reason for the conflict (such as: “Interference with proposed drainage,” “Existing utility material structurally inadequate for proposed loads,” “NCDOT policy requires relocation,” “Proposed earth cut exposes utility,” “facility in the clear recovery area,” etc.

#### **Proposed Conflict Resolution and Routing:** Text

How will the conflict be resolved? Examples are: “Utility will be lowered prior to highway project,” “utility will be removed after replacement in \_\_\_ location and prior to project letting,”

#### **Betterment and Proposed facilities:** Text

Describe betterments such as upsizing, material quality improvements, or extensions.

## **Existing Power**

### **Conflict:** [Text](#)

Identify the location (such as from Station \_ to Station \_) and the reason for the conflict (such as: “Interference with proposed drainage,” “Existing utility material structurally inadequate for proposed loads,” “NCDOT policy requires relocation,” “Proposed earth cut exposes utility,” “facility in the clear recovery area,” etc.

### **Proposed Conflict Resolution and Routing:** [Text](#)

How will the conflict be resolved? Examples are: “Utility will be lowered prior to highway project,” “utility will be removed after replacement in \_\_\_\_ location and prior to project letting,”

### **Betterment and Proposed facilities:** [Text](#)

Describe betterments such as upsizing, material quality improvements, or extensions.

## **Existing Telephone**

### **Conflict:** [Text](#)

Identify the location (such as from Station \_ to Station \_) and the reason for the conflict (such as: “Interference with proposed drainage,” “Existing utility material structurally inadequate for proposed loads,” “NCDOT policy requires relocation,” “Proposed earth cut exposes utility,” “facility in the clear recovery area,” etc.

### **Proposed Conflict Resolution and Routing:** [Text](#)

How will the conflict be resolved? Examples are: “Utility will be lowered prior to highway project,” “utility will be removed after replacement in \_\_\_\_ location and prior to project letting,”

### **Betterment and Proposed facilities:** [Text](#)

Describe betterments such as upsizing, material quality improvements, or extensions.

## **Existing CATV**

### **Conflict:** [Text](#)

Identify the location (such as from Station \_ to Station \_) and the reason for the conflict (such as: “Interference with proposed drainage,” “Existing utility material structurally inadequate for proposed loads,” “NCDOT policy requires relocation,” “Proposed earth cut exposes utility,” “facility in the clear recovery area,” etc.

### **Proposed Conflict Resolution and Routing:** [Text](#)

How will the conflict be resolved? Examples are: “Utility will be lowered prior to highway project,” “utility will be removed after replacement in \_\_\_\_ location and prior to project letting,”

### **Betterment and Proposed facilities:** [Text](#)

Describe betterments such as upsizing, material quality improvements, or extensions.