Appendix C Utility Risk Assessment and Inventory Report

CATAWBA CROSSINGS

Utility Risk Assessment and Inventory Report

Final Version
September 2021

GASTON-CLEVELAND-LINCOLN MPO
Metropolitan Planning Organization

150 South York Street
Gastonia, North Carolina, 28052

Gannett Fleming
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Raleigh, North Carolina, 27603

Executive Summary:

This is a Utility Risk Assessment and Inventory Report of existing utility infrastructure with probable impact to Catawba Crossings project. **All quantities and assumptions shown are based on the current design, coordination with utility companies and best available information.**

Compensable utility relocation cost is determined using the NCDOT Utility Relocation Estimate Worksheet.

This report addresses the following:

1. Utilities within project limits and contacts:

Power		**Contact**
	Duke Energy (Transmission)	Highway.Relocation@Duke-Energy.com
	Duke Energy (Distribution)	Highway.Relocation@Duke-Energy.com
Gas		
	Piedmont Natural Gas (Transmission)	Brian.Croft@Duke-Energy.com
	Piedmont Natural Gas (Distribution)	Marcus.Cutherbertson@Duke-Energy.com
Water/Sewer		
	Charlotte Water	cltwasbuilts@ci.charlotte.nc.us
	Charlotte Water (Sewer)	cltwasbuilts@ci.charlotte.nc.us
	Belmont Water/Sewer	JHatton@cityofbelmont.org
	Belmont Water/Sewer	bcarroll@cityofbelmont.org
Telecommunications		
	AT&T (Local)	DP2170@att.com (David Poli)
	Lumen (aka - CenturyLink)	Michael.E.Casey@centurylink.com
	Charter Communications	Gregg.Brown@charter.com

2. Utility Inventory and Cost Estimates:

Relocation Totals	
Power	$6,150,000.00
Telephone	$123,582.00
Gas	$400,000.00
Total	$6,673,582.00

<u>Duke Energy (Transmission)</u> – Potential Impact

- 10 – 230KV Towers
- 2 – 500KV Towers

If Duke Transmission towers are affected – Duke Energy will handle any R/W needed, along with relocation efforts. It is expected that the new roadway design will parallel the Duke corridor, avoiding 8 of the 10, 230KV towers thus reducing relocation totals. Duke Energy possesses prior rights and relocation costs are compensable.

Relocation Totals	
230KV Towers	10
500KV Towers	2
R/W & Relocation:	24 months
Cost to Relocate:	$4,500,000

The cost and time to relocate are approximate and subject to change

- Dixie River Road – 230KV Lines/Towers
- Boat Club Road – 230KV and 500KV Lines/Towers

Contact Information:
Highway.Relocation@Duke-Energy.Com
Assume 1 week to assign an engineer once 25% plans are available.

View of 8 – 230KV Lines/Towers
It is expected new roadway design will parallel Duke's R/W.

View of 500KV Tower & 230KV Towers
This is just outside of the Allen Steam Station.

<u>Duke Energy (Distribution)</u> – Potential Impact

- 5 - 3PH Double Circuit Distribution Poles
- 27 - 3PH Distribution Poles
- 28 - 1PH Distribution Poles

Relocation Totals	
Duke Primary Poles:	60
Time to Relocate:	12 months
Cost to Relocate:	$1,650,000

The cost and time to relocate are approximate and subject to change

Duke Distribution is affected at multiple locations throughout the project. Duke Energy possesses prior rights and relocation costs are compensable. Avoiding structures and designing between poles will greatly reduce relocation totals.

- Steele Creek Road
- Horton Road
- Garrison Road
- Dixie River Road
- Boat Club Road
- Joyce Road
- Wilson Road
- South Point Road
- Tucker Road
- S. Forest Lane
- Gaither Road
- Lake Wylie Road
- S. New Hope Road

Contact Information:
Highway.Relocation@Duke-Energy.Com
Assume 1 week to assign an engineer once 25% plans are available.

Duke 3PH Double Circuit – Steele Creek Road

3 PH Duke Line, Horton Road

Piedmont Natural Gas (Transmission) – **Potential Impact**

A high-pressure line was recently installed along the west side of Dixie River Road. There is potential impact to gas transmission lines paralleling I-485. Relocation costs are potentially compensable.

Relocation Totals	
PNG 10" Transmission	1,000 feet
Time to Relocate:	12 months
Cost to Relocate:	$400,000

The cost and time to relocate are approximate and subject to change

Contact Information:
Brian Croft
Brian.Croft@Duke-Energy.Com
704.634.4392

Piedmont Natural Gas (Distribution) – **Potential Impact**

There are multiple locations where gas lines are present within the design corridor. Piedmont Natural Gas is encroached within NCDOT right of way and relocation costs are not compensable.

- Steele Creek Road
- Dixie River Road
- South Point Road

Contact Information:
Marcus Cutherbertson
Marcus.Cutherbertson@Duke-Energy.Com
704.587.6944

Gas Line along Steele Creek Road

Charlotte Water (Water) – **Potential Impact**

There are multiple locations where water lines are present within the design corridor. Charlotte Water may want to include engineering and relocation work in the NCDOT contract. This will be determined once 25% plans are provided.

- Steele Creek Road
- Horton Road

Contact Information:
cltwasbuilts@ci.charlotte.nc.us
704.336.7600

Assume 1 week to assign someone from Charlotte Water once 25% plans are available. This person will decide if engineering and relocation are placed in the NCDOT contract. This person is the point of contact to review plans.

Water Line Painted along Steele Creek Road

Charlotte Water (Sewer) – **Potential Impact**

It appears that sewer lines are present at the eastern terminus of the project within the design corridor. Charlotte Water may want to include engineering and relocation work in the NCDOT contract, determined once 25% plans are provided.

- Steele Creek Road

Contact Information:
cltwasbuilts@ci.charlotte.nc.us
704.336.7600

Assume 1 week to assign someone from Charlotte Water once 25% plans are available. This person will decide if engineering and relocations are placed in the NCDOT contract. This person is the point of contact to review plans.

City of Belmont Water / Sewer – **Potential Impact**

It appears that water / sewer lines are present in the vicinity of South Point Road within the design corridor. City of Belmont may want to include engineering and relocation work in the NCDOT contract, determined once 25% plans are provided.

- South Point Road
- S. Forest Lane

Contact Information:
jhatton@cityofbelmont.org
bcarroll@cityofbelmont.org

Assume 2 weeks for someone from City of Belmont to review plans once 25% plans are available. These contacts will decide if engineering and relocations are placed in the NCDOT contract. These will be your point of contact to review plans.

Hydrant / Water along South Point Road

AT&T Telephone – Potential Impact

There are multiple locations throughout the project where AT&T facilities are affected. AT&T possesses prior rights via a joint use agreement with Duke Energy for most aerial facilities and relocation costs are compensable. Avoiding structures and designing between poles will greatly reduce relocation totals. Underground facilities are encroached within NCDOT right of way and relocation costs are not compensable.

Relocation Totals	
AT&T Aerial / Poles:	21
Time to Relocate:	12 months
Cost to Relocate:	$103,152

The cost and time to relocate are approximate and subject to change

Aerial Locations

- Steele Creek Road
- Horton Road
- Boat Club Road

Underground Locations

- Horton Road
- Garrison Road
- Boat Club Road
- Joyce Road
- Wilson Road
- Tucker Road
- S. Forest Lane
- Gaither Road
- Lake Wylie Road
- S. New Hope Road

Contact Information:
Kevin McDowell
KM380G@ATT.com
980.245.1436

AT&T Aerial Lines along Steele Creek Road

AT&T Handhole @ end of Horton Road

Lumen Telephone – Potential Impact

Relocation Totals	
Lumen Aerial / Poles:	5
Time to Relocate:	6 months
Cost to Relocate:	$20,430

The cost and time to relocate are approximate and subject to change

There are multiple locations throughout the project where Lumen facilities are affected. Lumen has a pole attachment agreement with Duke Energy for aerial lines. Lumen possesses prior rights via a joint use agreement with Duke Energy for most aerial facilities and relocation costs are compensable. Underground facilities are encroached within NCDOT right of way and relocation costs are not compensable.

Aerial Locations

- Steele Creek Road

Underground Locations

- Horton Road

Contact Information:
Michael Casey
Michael.E.Casey@CenturyLink.com
704.469.4052

Aerial Lumen lines along Steele Creek Road

Lumen Marker Along Dixie River Road

Charter – Potential Impact

There are multiple locations throughout the project where Charter facilities are affected. Charter has a pole attachment agreement with Duke Energy for aerial lines, however, prior rights are not conveyed via this type of agreement and relocation costs are not compensable. Underground facilities are encroached within NCDOT right of way and relocation costs are not compensable.

Aerial Locations:

- Steele Creek Road
- Garrison Road
- Boat Club Road
- South Point Road
- S. New Hope Road
- Tucker Road
- Gaither Road

Underground Locations:

- Joyce Road
- Wilson Road
- S. Forest Lane

Contact Information:
Gregg Brown
Gregg.Brown@Charter.com
704.378.2545

Aerial Charter Lines along Steele Creek Road

Charter Pedestal Wilson Road

3. Additional Survey – SUE services may be required to verify utility locations & depths to fully determine conflicts within the project limits once design with drainage files is available.