

**DRAFT
UTILITY ANALYSIS
AND PRELIMINARY ROUTING REPORT
(UAPR)**

NCDOT TIP# 17BP.6.R.20

Location: Bridge #75 along SR 1006 (M M Ray Road)

Columbus County



Prepared By:

**The Subsurface
Utility Engineering
Company**



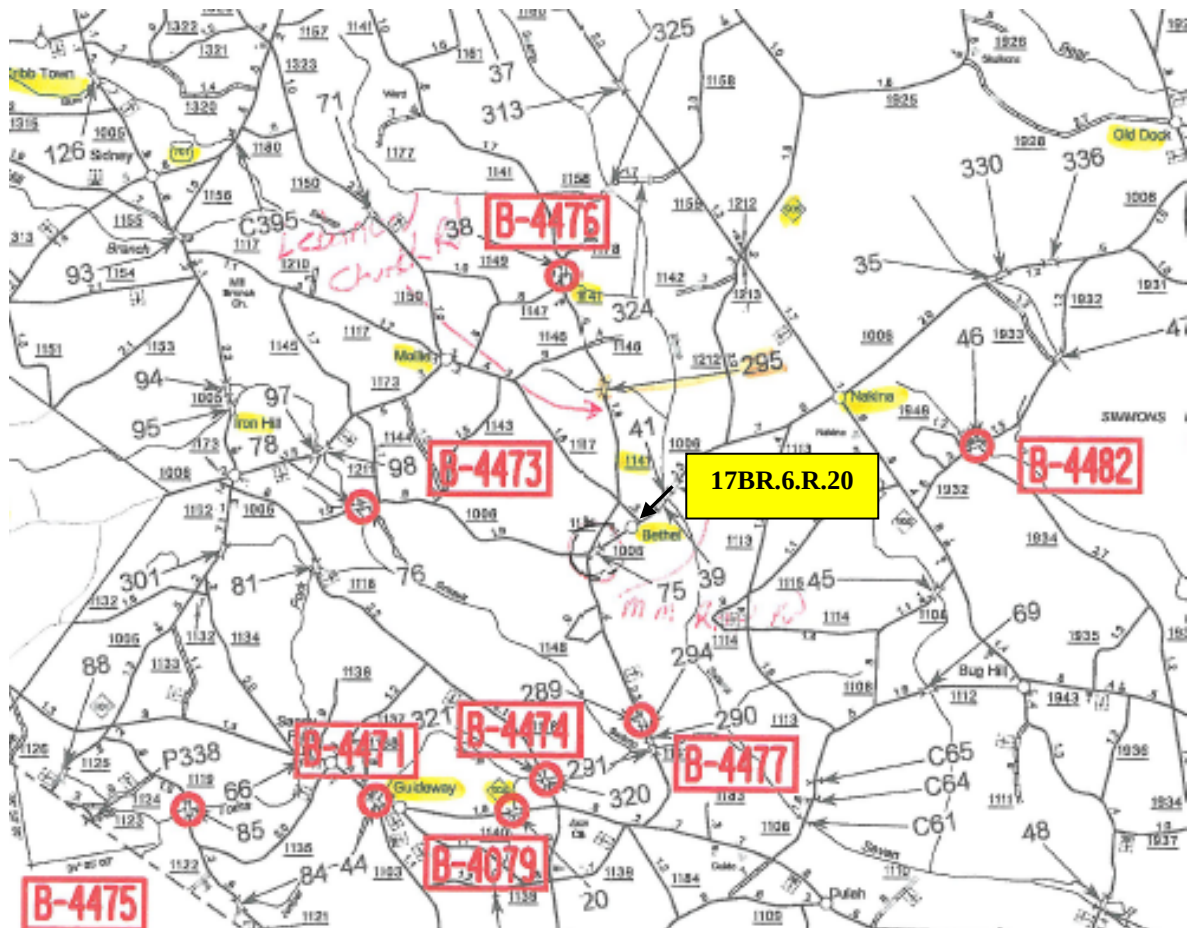
**Performing
out-of-sight work...
*with vision!***



To: Mr. Steve Smallwood, PE
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From: **Louis F. Ostendorff, PE**
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Date: **September 10, 2012**



Vicinity Map of NCDOT TIP# 17BR.6.R.20

PRELIMINARY UTILITY ASSESSMENT

Water Lines

Owner: None

As of the date of this report, there are no publicly owned water facilities within the limits of this project.

Sewer Lines

Owner: None

As of the date of this report, there are no publicly owned water facilities within the limits of this project.

Gas Lines

Owner: None

As of the date of this report, there are no publicly owned sewer facilities within the limits of this project.

Power Distribution Lines

Owner: Brunswick EMC

Brunswick EMC owns an overhead three (3) phase primary electric system that is located on the southern side of SR 1006 (M M Ray Road). This system is approximately 20' feet South of existing Bridge #3 in a private easement. The poles may need setback for crane clearance, although the opposite (Northern) side of the bridge is clear of all utilities. A temporary cover-up of exposed conductors can be made should poles remain in place.

Telecommunication Lines

Owner: Century Link

Century Link owns one (1) conventional (copper) telephone cable that begins along the northern side of SR 1006, then crosses to the southern side before encountering the bridge. It rises on a BEMC pole and proceeds East in an aerial span approximately 20' from the southern edge of the bridge, to another BEMC pole, where it becomes a buried line again. The poles supporting the aerial span may be relocated back away from the zone of construction for the new bridge, depending on BEMC's assessment for minimum clearance. Additional coordination with CenturyLink for relocating this facility will be required, depending upon timing of subsequent construction activities.

Owner: ATMC

ATMC owns a fiber optic cable in conduit running along the southern side of SR 1006 for the length of the project. It is approximately 12'-15' from the southern edge of the existing bridge and appears to be in conflict with proposed construction. ATMC engineering is managed by Byers Engineering and Byers confirmed that they reside entirely within the existing R/W by Encroachment Permit.

Cable Television (CATV) Lines:
Owner: None

PUE or Additional Right of Way and Possible Environmental Impacts

As of the date of this report, PUEs and Additional Right-of-Way are not anticipated to be needed for this project according to utility owner feedback. Additionally, there are no known Environmental Impacts that will be affected by utility construction and/or relocation.

Estimated Cost for Relocating Utilities with Prior Rights

Preliminary indications are that Brunswick EMC facilities, presently in private easement, may incur some relocations for poles close to the bridge; this determination is presently under review. Some associated costs may be necessary due to prior rights (\$35,000).

Facilities owned by Century Link on this project are present within the existing R/W by approved NCDOT Encroachment Permit. Their desire is to remain within the R/W. All costs associated with relocations, if any, will be borne by CenturyLink. Their aerial span will be moved in concert with BEMC's poles, if relocations become necessary.

Facilities owned by ATMC on this project are present within the existing R/W by approved NCDOT Encroachment Permit. Their desire is to remain within the R/W. All costs associated with relocations, if any, will be borne by ATMC.

There are no other utility owner facilities on this project.

Recommendations for Early Relocations

So-Deep's recommendation is that for any facilities requiring relocation, the necessary work be performed prior to construction.

SUE Information

All utility information included in NCDOT's Roadway Plans for this project is the result of Quality Level "B" SUE investigations by So-Deep. It is recommended that this "QL-B" data be used to more easily discern possible conflicts and determine relocation options.

Utility Owners

Sewer – No publicly owned sewer facilities on project

Power – Brunswick EMC

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Telecommunications - ATMC

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Gas – No Gas facilities on project

Cable TV – No CATV facilities on project