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**10-2. Cost Estimate Criteria, Prior Rights, and Cost Responsibility**

MCEC provided preliminary mark ups used for estimated cost to relocate. Their initial impact estimate is \$675,000, which includes all relocation efforts. It was assumed MCEC would be able to provide prior rights on up to 75% of their facilities, which is not accounted for in the estimate. MCEC has not provided their prior rights documentation at the time of this report; however, DBPT will continue to pursue acquiring, reviewing, and certifying these rights as they are received.

**10-3. Mid-Carolina Electric Cooperative Power Distribution (power feeds to ITS)**

DBT will coordinate with MCEC for power feeds to proposed ITS, overhead signs, and signals.

**11. Segra (f.k.a. Spirit) Communications**

Segra has overhead and underground fiber optic cables located with the limits of the CCR Phase 3 project. MCI shares/leases fiber optic cable from Segra within the project area, so additional coordination will be needed. Segra has applied for new facilities throughout the overall CCR project since SUE was performed. See *Appendix F: Encroachment Log & Permits* for encroachment log and permits for specific locations.

It is anticipated that the specific tie points and specifications for their handholds and fiber optic cable will be provided by Segra. They will also perform the cutovers and splicing once the DBT installs the infrastructure and fiber optic cable. DBT will be responsible for any conduit design and conduit and fiber optic cable installation for Segra’s use.

**11-1. Communication Lines**

*Table 11: Segra existing communication facilities and relocation options\**

Existing Utility	Relocation Option	In-Contract
Buried fiber optic cables along the following locations: Fernandina Road, Jamil Road, St. Andrews Road, Burning Tree Drive, Berryhill Drive, Bush River Road, Browning Road	Relocate to conduit provided by DBT	Yes
Buried fiber optic cables along the following locations: Executive Center Drive, Bush River Road, Burnette Drive	Retain in place	Yes
OH attachments on power poles along the following locations: St. Andrews Road, Fernandina Road,	Relocate to new power line	Yes
OH attachments on power poles along the following locations: Bush River Road,	Retain in place	Yes
Buried fiber optic cables along Browning Road crossing I-20 at STA 171+25 continue along Browning Road	Relocate from Browning Road STA 9352+00 onwards	Yes
Buried fiber optic cable crossing I-26 at STA 372 +00 along Bush River Road	Relocate	Yes

*\*Existing Utilities: Utilities mapped in dgn SUE file. These do not include any utilities outside project limits or were installed after SUE data was collected. Relocation Option: This is a preliminary resolution option based on MSA design concept. DBT’s final design will be used to determine if the utility conflicts and what is an acceptable resolution in accordance to SCDOT’s Utility Accommodations Manual. In-Contract: Utilities identified to be performed by DBT.*

**11-2. Prior Rights and Cost Responsibility**

Segra reviewed U-sheets and provided cost estimate. They do not have prior rights and all relocation costs will be at No Cost to SCDOT. DBT will be responsible for all coordination, collecting relocation plans, encroachment permits, and No Cost letter for final approval.

**11-3. Proposed New Conduit System**

Segra has agreed for the sake of the project and due to limited available ROW, project access, to reduce risk for damages associated with earlier relocation efforts, and to help project schedule, to relocate into a new conduit system, or equivalent JUDB with all communication companies. Segra has further agreed to have the contractor perform the installation of this infrastructure. Segra requires three (3) 1.25-in conduits and associated appurtenances, and they place set their own vaults. DBT will coordinate with Segra through this effort.

It is anticipated that the final Segra facilities will be performed in-contract by DBT for the areas identified above. See *Appendix F: Tracking Spreadsheet* for status update.

**12. South Carolina Water Utilities (Palmetto Utilities, Synergy) (sewer)**

South Carolina Water Utilities (SCW) is the parent company to Palmetto Utilities (SCW-P) and Synergy (SCW-S) which are private operators of the sewer collection system in CCR Phase 3. SCW-P’s gravity system covers everything from St. Andrews Boulevard to I-20/I-26, and SCW-S’s system covers from I-20/I-26 east to Bush River Road over I-126. Both area systems have potential conflicts with the CCR Phase 3 project improvements. SCW is a private company and not a public municipality.

**12-1: Sewer Lines:**

*Table 12a: SCW-P existing sewer facilities and relocation options\**

Existing Utility	Relocation Option	In-Contract
8-in sewer line at or along the following locations: Jamil Road, Fernandina Road, Berryhill Drive, St. Andrews Road, Burning Tree Drive,	Relocate	Yes
8-in sewer line at or along the following locations: St. Andrews Road, Burning Tree Drive, Browning Road	Retain in place	Yes
20-in sewer line along the following locations: Berryhill Drive, Rockland Road,	Relocate	Yes
Unknown size sewer line along Berryhill Drive into Bush River Road	Retain in place	Yes
10hp pump station	Relocate	Yes
18-in sewer gravity line crossing I-26 at STA 306+30 then splitting into one crossing St. Andrews Road at STA 31+75 then turning to cross Fernandina Road and the other a 12-in into Burning Tree Drive	Relocate	Yes
20-in sewer line crossing I-20 at STA 142+50	Relocate	Yes

*Table 12b: SCW-S existing sewer facilities and relocation options\**

Existing Utility	Relocation Option	In-Contract
8-in sewer line at or along the following locations: Browning Road	Relocate	Yes



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6-in sewer line at or along the following locations: Zimalcrest Drive, Bush River Road	Retain in place	Yes
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12-in sewer line crossing I-26 at STA 368+80	Relocate	Yes
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*\*Existing Utilities: Utilities mapped in dgn SUE file. These do not include any utilities outside project limits or were installed after SUE data was collected. **Relocation Option:** This is a preliminary resolution option based on MSA design concept. DBT's final design will be used to determine if the utility conflicts and what is an acceptable resolution in accordance to SCDOT's Utility Accommodations Manual. **In-Contract:** Utilities identified to be performed by DBT.*

**12-2. Prior Rights**

SCW does not have prior rights on their gravity line except at the following locations based on SUE locations. It is assumed that they have 10% prior rights for cost estimating purposes. SCW will need to supply prior rights documents to support this, or they will not qualify. If they are not able to provide the proper documentation, then they will need to supply a No Cost letter and encroachment permit for their relocations.

SCW does have prior rights on the 10hp pump station located along Fernandina Road near the St. Andrews Road interchange.

**12-3. Utility Relocation Act**

SCW is a private company, and they do not qualify for reimbursement under the Utility Relocation Act.

It is anticipated that the final SCW facilities will be performed in-contract by DBT for the areas identified above.

**13. Verizon (f.k.a. MCI) Communications**

Verizon (MCI) has overhead and underground fiber optic cables located within the limits of the CCR Phase 3 project. MCI shares/leases from Segra in some locations and relocation efforts will need to be coordinated. MCI facilities will be impacted by Segra's relocations. MCI has applied for new facilities throughout the overall CCR project since SUE was performed. See *Appendix F: Encroachment Log & Permits* for encroachment log and permits for specific locations.

It is anticipated that the specific tie points and specifications for their handholds and fiber optic cable will be provided by MCI. They will also perform the cutovers and splicing once the DBT installs the infrastructure and fiber optic cable. DBT will be responsible for any conduit design and conduit and fiber optic cable installation for MCI's use.

**13-1. Communication Lines**

*Table 13: Verizon existing communication facilities and relocation options\**

Existing Utility	Relocation Option	In-Contract
Buried UG fiber optic cables along the following locations: Fernandina Road, Browning Road, Bush River Road	Relocate to JUDB	Conduit (yes) Cable (no)
Buried UG fiber optic cables along the following locations: St. Andrews Road, Bush River Road, Burnette Drive, Morninghill Drive	Retain	Yes
Buried UG fiber optic cables along Browning Road crossing I-20 at STA 172+00	Relocate	Conduit (yes) Cable (no)
Buried UG fiber optic cables along Bush River Road (S-31) crossing I-26/I-126 at STA 370+00	Relocate	Conduit (yes) Cable (no)

*\*Existing Utilities: Utilities mapped in dgn SUE file. These do not include any utilities outside project limits or were installed after SUE data was collected. Relocation Option: This is a preliminary resolution option based on MSA design concept. DBT's final design will be used to determine if the utility conflicts and what is an acceptable resolution in accordance to SCDOT's Utility Accommodations Manual. In-Contract: Utilities identified to be performed by DBT.*

**13-2. Prior Rights and Cost Responsibility**

MCI reviewed U-sheets and it appears they do not have prior rights. All relocation costs will be at No Cost to SCDOT. DBT will be responsible for all coordination, collecting relocation plans, encroachment permits, and No Cost letter for final approval.

**13-3. Proposed New Conduit System**

Verizon (MCI) has agreed for the sake of the project and due to limited available ROW, project access, to reduce risk for damages associated with earlier relocation efforts, and to help project schedule, to relocate into a new conduit system, or equivalent JUDB with all communication companies. Verizon (MCI) has further agreed to have the contractor perform the installation of this infrastructure. Verizon (MCI) requires two (2) “6-way” 4.25-in conduits and associated appurtenances.

It is anticipated that the final Verizon facilities will be performed in-contract by DBT for the areas identified above.

**14. SCDOT (ITS/Traffic Signals)**

SCDOT has buried ITS fiber optic cables and power lines along I-26 & I-20 throughout Phase 3 limits. They also have signals along Bush River Road and St. Andrews Blvd.

SCDOT will abandon and/or remove existing ITS facilities within the CCR Phase 3 project area and will replace after the project is completed. All existing signal facility modifications or relocations will be coordinated by DBT as part of the construction project.

**14-1. Fiber Cables/Power/ITS Boards, Cameras, etc.**

There are potential conflicts with the buried fiber and bridge columns, roadway, drainage, and ITS overhead sign adjustments.

**14-2. Traffic Signals**

The traffic signals will be reconfigured at signalized intersections.