

# T e c h n i c a l M e m o r a n d u m

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Project Tennessee State University Campus Master Plan

Subject 4. Future Campus Requirements  
4.5 Utility Infrastructure Requirements  
4.5.5 Communications

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To Tennessee State University

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The objective of this work is to discuss the expansion needed in order for the communications cabling infrastructure and system networks to serve the proposed new buildings.

## **1. COMMUNICATIONS**

As identified in previous sections, the existing infrastructure cabling is completely scalable provided some repairs are made. The cabling can be distributed through the tunnel system. Each of the proposed buildings will require copper and fiber optic cable backbone extended to their respective head end rooms. Each shall have different requirements based on its size and function of the buildings.

Any expansion to the Hyman Street area will require additional conduit from the main campus as there is not adequate space to deliver any other cabling.

The network server room will require expansion based on the large expansion effort identified in these articles.

The Phone PBX is currently near its capacity limits. The phone system will need to be replaced partially or in whole in order to meet the demand of the growth efforts.