

DIVISION 27 – COMMUNICATIONS

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27 05 00 Common Work Results for Communication Systems

Existing System and Design Information

1. Clemson University operates and maintains its own communications distribution system for voice, data and video system. This infrastructure includes both inside plant infrastructure (under Division 27) and outside plant infrastructure (under Division 33).
2. When starting a project, design teams shall inquire with the Facilities project manager to determine who from the Clemson Network Services and Telecommunications (NST) department has been assigned to serve as the NST Technical Lead (NSTTL). It is imperative that the NSTTL and the telecommunications designer on the A&E team be involved from the beginning of the project (typically the pre-design phase).
3. Refer to Clemson's Telecommunications Distribution Design Guide (TDDG) (<https://ccit.clemson.edu/services/network-phones-cable/infrastructure-standards>) for instructions about designing telecommunications infrastructure on campus. Adherence to these requirements is mandatory, and many of the requirements involve interaction with the NSTTL to inquire about project-specific nuances.
4. In addition to the design guidelines in the TDDG, a set of specification sections have been prepared to adapt for specific projects on campus. For any projects involving telecommunications infrastructure, please send an email to ITHELP@clemson.edu and request that the current version Word documents for the following sections be sent to you. Designers shall directly edit these specification documents for applicability to each Clemson project.

27 32 00 Voice Communications Terminal Equipment

27 32 26 Ring-Down Emergency Phones

1. Place emergency phones on an accessible pathway within the project site such that there is a clear line of sight and easily traversable path to at least one phone from anywhere on the project site.
2. Coordinate the placement of emergency phones and whether or not network connected security cameras need to be included in the installation with CUPD's [Physical Security Program Coordinator](#).

27 32 43 Radio Communication Equipment

1. Specify all projects be coordinated with the [Clemson University Fire Department](#) to determine whether an in-building Emergency Radio Communications Enhancement System (ERCES) will be needed.



2. Systems shall operate on all frequencies used by the responding Public Safety agencies. A list of those is for Clemson's Main Campus can be found in the [Public Safety Radio Frequency Index](#). Other campus locations are available upon request.



PRODUCTS AND MATERIALS – DIVISION 27 – COMMUNICATIONS

Area of Refuge Communication End Devices

- Viking 1600 Series or approved equal that is VOIP Compatible, Flush Mounted, ADA Complaint
- Gai-Tronics: 397-710 Red Alert VOIP phone or approved equal

Emergency Phone

- Gai-Tronics 234SBA-GTE21010 Tower Assembly or approved equal
- Gai-tronics 541-001 Strobe Light or approved equal
- Gai-tronics 397-710 Red Alert VoIP Phone or approved equal

