

INFRASTRUCTURE DESIGN

CTC maintains an experienced staff to design and manage communications cabling upgrades, additions, and new construction projects. All workmanship will comply with applicable standards (BICSI, CSI, AIA, ICIA, etc.). Our staff works closely with architects, owners, and clients, to design for current and future needs. This group works closely with the data, voice and video designers to provide the expertise that is required by the converging technology marketplace.

CTC addresses the detailed design of the technology infrastructure in the organizations buildings. In these buildings, the Technical Architecture will be implemented by identifying specific locations for technology nodal equipment and for cable facilities such as Main Distribution Frames (MDF's), Building Distribution Frames (BDF's) etc., and pathways. The network cabling strategy will be developed with resulting impacts on the specific topology for implementation of twisted pair metallic and optical fiber media and wireless systems, dictated heavily by the applications that will traverse the infrastructure.

Infrastructure Design services CTC provides include, but are not limited to:

Program Orientation, Preliminary Site Visit, and Budgetary Planning services...

- Review of architectural and construction plans and program specifications;
- Determine the cable infrastructure network requirements;
- Survey of construction site and connectivity paths to existing or new spaces;
- Attending requisite team meetings with client representatives, architect, and construction personnel;
- Preparation of a schematic design and narratives; and
- Preparation of a preliminary project budget.

Design, Development, and Engineering Services...

- New backbone infrastructure design for wiring closets, conduit, building entrances, voice, data, and video cabling systems;
- Internal building-wide cable plant design capable of supporting current and projected voice, data, and video networking requirements;
- New cable and end-point hardware infrastructure design to support a building's security system;
- Coordination of all design requirements with the appropriate architecture personnel; and
- Production of a final design as built.