Note to the Designer/Architect/Engineer/Installer: These Specifications are basic minimum criteria to be met in preparing the final project specifications for this section, which is the responsibility of the Designer

York University Building Standards

Prepared by:
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Reviewed by;
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1.0. GENERAL

.1 This document defines the technology-and-communications infrastructure requirements for all buildings, administrative office areas, classrooms, auditoriums, labs, common areas, sport facilities, construction trailers and residences on campus. This can include but is not limited to: any leased sites, underground fibre and non-campus buildings used for the design of all new builds and the renovation of existing space.

.2 York University owns the network and voice cable infrastructure wiring, and University Information Technology (UIT) is responsible for the support, maintenance and repairs.

.3 UIT will assign a primary point of contact to each project. This role will be referred to as the UIT-Project Coordinator.

.4 The intent of this document is to assist all Contractors, Consultants, VORs and CSBO Planners with the standard requirements for purchasing, installing and maintaining the infrastructure during new builds and during renovations of existing or proposed spaces.

.5 York University asserts its rights to all Wi-Fi airspace within range of our managed spaces. UIT is responsible for the support, maintenance and repairs of all Wi-Fi equipment in this space. Use of this spectrum is reserved for University provided service.

.6 UIT-Infrastructure Standards have been developed with reference to TIA-Telecommunication Industry Association and BISCI-Building Industry Consulting Services International.

.7 Any proposed changes to these guidelines must receive approval by the UIT-Project Coordinator, prior to any design plan or installations being executed.

.8 Unless otherwise specified, all new instances of twisted-pair *network cable/cabling* implies CAT6A cabling.

.9 Any references to drawing(s) or other projects documents implies the most recent UIT-accepted revision of said documents.

1.1. Consultant Co-Ordination

.1 For all communications and technology infrastructure requirements, the Consulting Engineer/Architect will provide all designs using the *UIT-Infrastructure Standards Document*

.2 UIT-Project Coordinator will be responsible for reviewing drawings at 95% design completion prior to drawings being submitted for final tender.

.3 The Consultant will provide drawings in .DWG format and will allow a minimum of 14 days for review by UIT-Project Coordinator.

.4 Random site-inspections will be conducted by UIT-Project Coordinator.

.5 Testing of fibre and copper wiring will be done at the direction of the UIT-Project Coordinator to ensure standards are being followed.

.6 Consultants will identify locations of all services using UIT-Infrastructure Standards standardized symbols. UIT-ICT-01

1.2. Contacts-UIT Information Communications Technology

.1 Chris Russel russel@yorku.ca Director-ICT Infrastructure

416-736-5858

.2 Ramon Kagan rkagan@yorku.ca Manager, PMO

416-736-2100, x44657

.3 Tracy Wechsler wechsler@yorku.ca Project Admin/Equip.Analyst

416-736-2100, x30745

1.3. Contractor Qualifications

.1 The Communication/Cabling Contractor must be Belden Certified and provide proof of certification.

.2 All technicians installing CAT6A cables must be Belden Certified and provide proof of certification.

.3 All technicians must be fully trained to work in confined spaces and tunnels if the project scope requires such effort.

.4 All technician must be fully trained to work on ladders and lifts

.5 All Contractors and crew technicians must wear company identification badges.

.6 All Contractors and technicians will abide by York University Policies when operating vehicles on campus. Documentation can be found at http://building-standards.info.yorku.ca/third-page/

.7 All Contractors and technicians shall comply with all municipal, provincial and federal health and safety regulations when on site.

.8 All Contractors will abide by *York University Code of Conduct* that can be found at:http://building-standards.info.yorku.ca/files/2016/08/Constructor-Contractor-Manual-Jan-2011-part-4.pdf

.9 Contractors will be responsible for supplying and installing all cable trays, J-Hooks and cable racks in accordance with the agreed upon design for each site and conforming to the product preferences outlined in the *UIT-Infrastructure Standards* document.

.10 Contractors will be responsible for supplying and installing all CAT6A cables and terminations, labeling and testing.

.11 Contractors, along with UIT-Project Coordinator, may be required to complete a pre-survey of an existing space prior to the demolition stage of a project to identify, label and preserve any cables that are reusable during the renovation stage of the project.

.12 Prior to demolition in an existing space, the General Contractor will provide one week notice to UIT-Project Coordinator to survey the space. When awarded a renovation within an existing space/building, demolition may include the removal of existing cables.

.13 Contractors will be responsible for the removal of all packaging and disposed materials from the worksite.

.14 All Communication/Cabling Contractors and Sub-Contractors will be Belden Certified and provide proof of certification.

.15 The Communication/Cabling Contractor and Sub-Contractor and crew members should have CAT6A campus cabling systems experience.

.16 The General Contractor will possess a minimum of five years Project Management experience on construction projects.

1.4. Codes and Standards

.1 All equipment, materials and installation shall conform to the latest version of applicable Codes, Standards and regulations of all authorities with jurisdiction in the province of Ontario.

.2 Contractors will provide certification of all cables after installation and testing.

.3 All Contractors will comply with ANSI/TIA Telecommunications Industry Standards.

.4 All Contractors will comply with CEC-Canadian Electrical Code Standards.

.5 All Contractors will follow the *York University Asbestos Policy* if asbestos is encountered during a building renovation. See policy at: http://www.yorku.ca/csbo/maintenance/asbestos

End of Section 27 05 00