IB 2022-18 FIBER OPTICS BACKBONE CABLING AT LA TRINIDAD CAMPUS

Project Description: Supply, Delivery, Installation, Testing and Commissioning of Fiber Optics Backbone Cabling at La Trinidad Campus
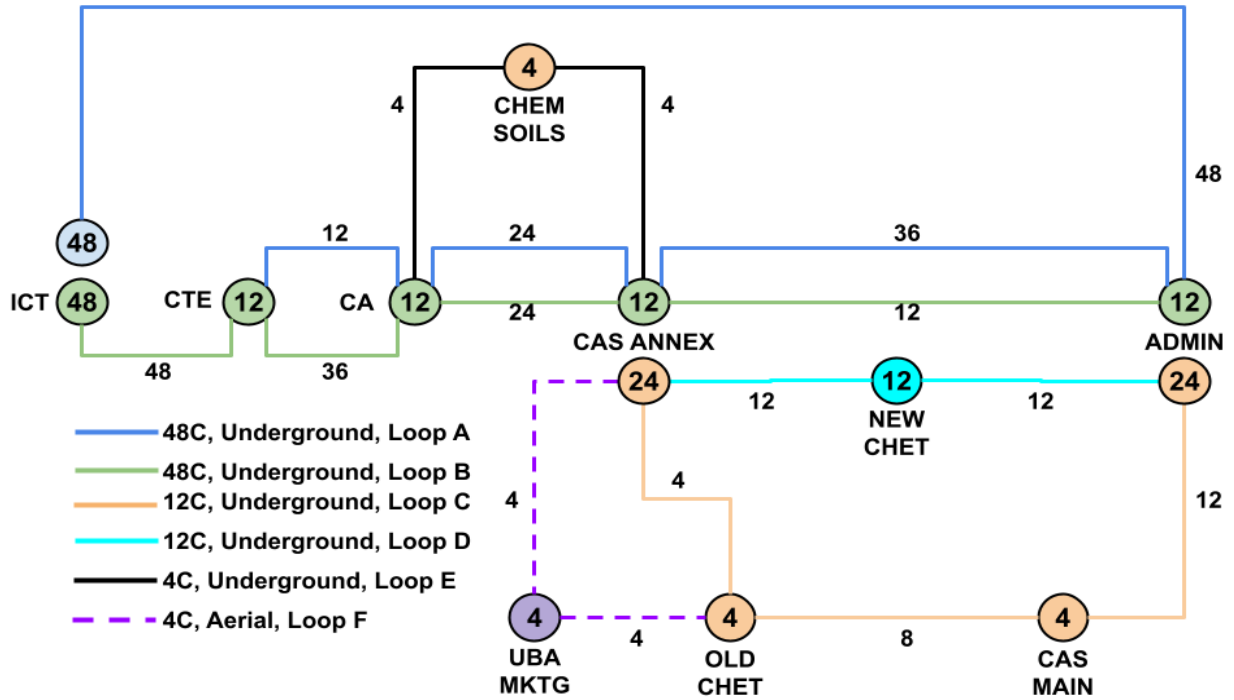
FIBER-OPTICS NETWORK CABLE LAYOUT
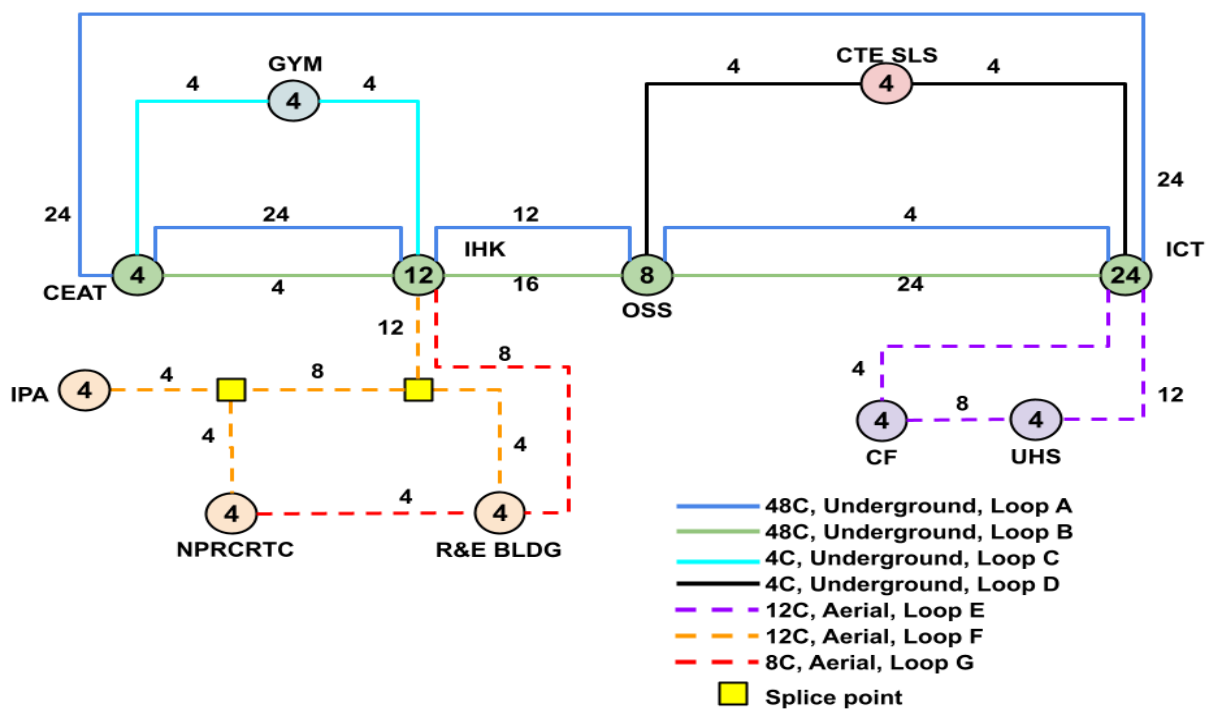

Figure 1. Fiber-Optic Network Phase 1.
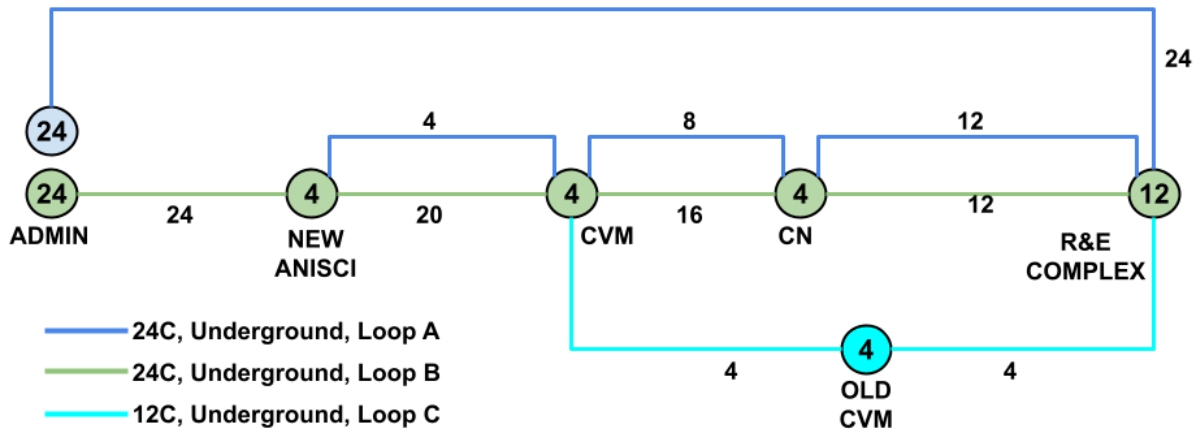

Figure 2. Fiber-Optic Network Phase 2.

Figure 3. Fiber-Optic Network Phase 3.

FIBER-OPTICS NETWORK MAPS

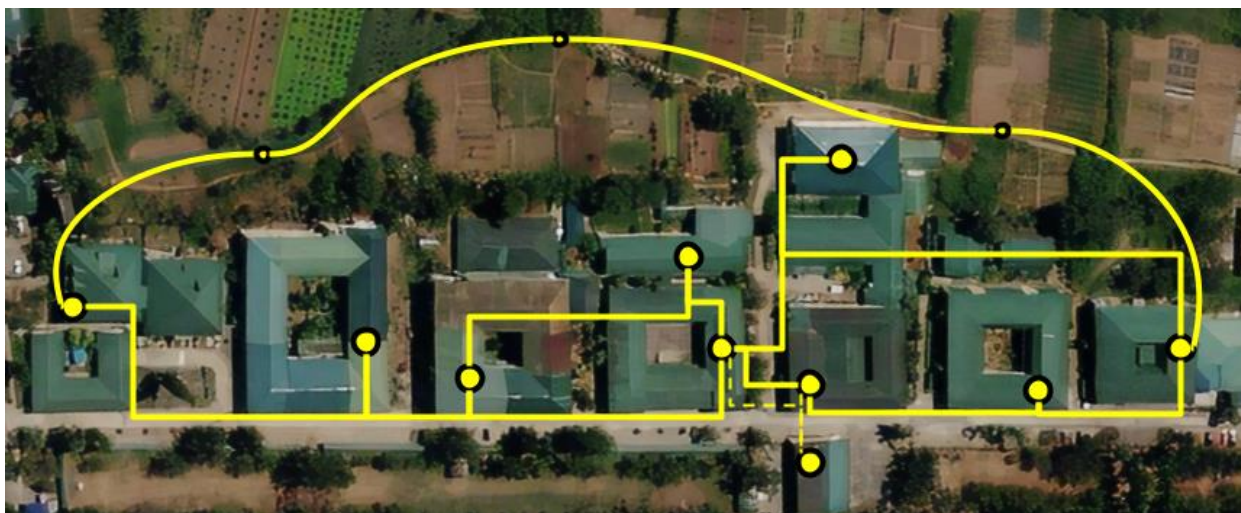Figure 4. Proposed Fiber-optic Network Physical Layout North Main Campus.

Figure 5. Proposed Fiber-optic Network Physical Layout Central Main Campus.

Figure 6. Proposed Fiber-optic Network Physical Layout South Main Campus.

NOTE: The supplier will adhere to the following:
- LC fiber-optic patch panels will be used.
- 2-3 meter long LC-LC fiber-optic patch cords will be provided for every available fiber-optic pair.
- Two (2) 48U 4-post open frame data racks will be installed at the New Administration NOC.
- 42U-48U data cabinets will each be installed at the following locations:
    - Corner Lobby, First Floor, College of Agriculture
    - Data Room, Second Floor, Former College of Arts & Sciences Annex
    - Backstage, Audio Visual Room, First Floor, College of Human Kinetics
    - Data Room, College of Public Administration & Governance *(Former R&E Complex)*
    - Data Room, Second Floor, College of Teacher Education
    - Lobby, Main Floor, University Library & Information Services
- 16U-20U wall mounted data cabinets will each be installed at the following locations:
    - Hallway, Ground Floor, Former College of Arts & Sciences Main
    - Lobby, Second Floor, College of Engineering
    - Reception Area, Second Floor, College of Forestry
    - Hallway, Second Floor, New College of Home Economics & Technology
    - Hallway, Second Floor, Old College of Home Economics & Technology
    - Hallway, Second Floor, College of Nursing
    - Faculty Room, College of Teacher Education Secondary Level School
    - Hallway, Second Floor, College of Veterinary Medicine
    - Hallway, Old Administration College of Veterinary Medicine
    - Corner Lobby, Second Floor, New Animal Science Building
    - Lobby, University Board of Regents Building
    - Hallway, Second Floor, Chemistry & Soils Department
    - Stage Right, Closed Gymnasium
    - Hallway, Second Floor, New Research & Extension Building
    - Reception Area, First Floor, New University Health Services Building
    - Second Floor, University Business Affairs/ Marketing Center
- IP20/IP30/IP40/IP50 rated data cabinets will be used for fully indoor installations.

- IP55/IP65 rated data cabinets will be used for flood prone, partially indoor and outdoor installations.
- All available pairs will be properly labeled and printed trace maps stickers will be pasted behind the cabinet's front door.
- Connect ALL data cabinets to each respective location's electrical circuit complete with an appropriately rated circuit breaker.
- All Data cabinet locks can be opened by a single master key. Multiple copies of this master key will be provided to the university.
- The data cabinet lock type shown or similar to that below are REJECTED.

Figure 7. Rejected data cabinet lock and key type
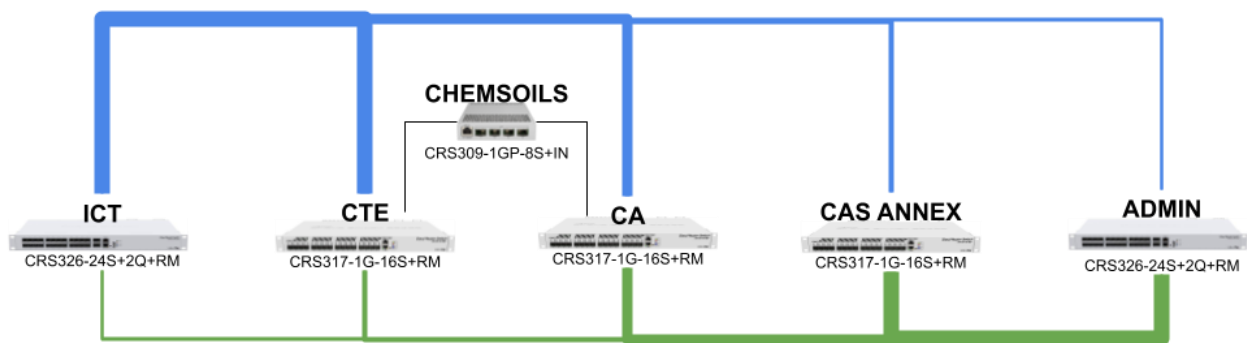
FIBER-OPTICS NETWORK EQUIPMENT DEPLOYMENT

Figure 8. Fiber-Optic Network Phase 1A Equipment Deployment.
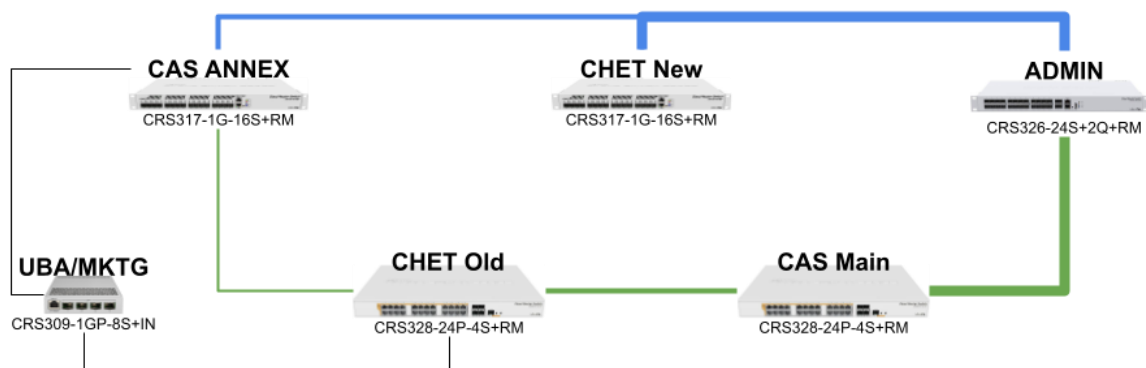

Figure 9. Fiber-Optic Network Phase 1B Equipment Deployment.

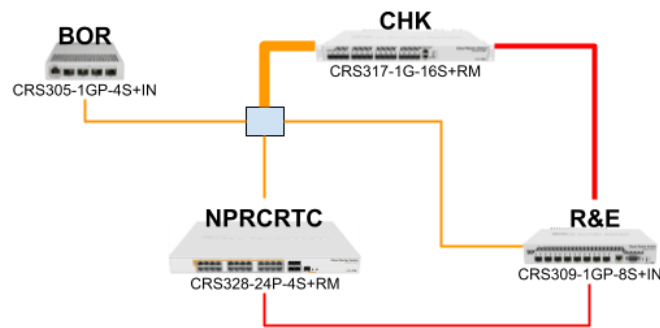Figure 10. Fiber-Optic Network Phase 2A Equipment Deployment.

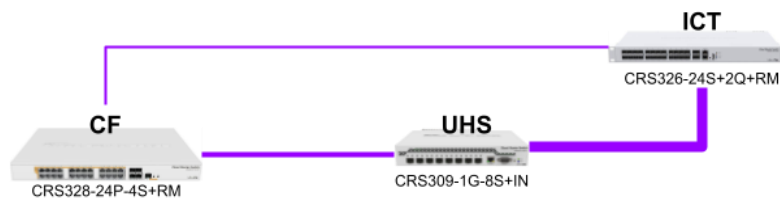Figure 11. Fiber-Optic Network Phase 2B Equipment Deployment.

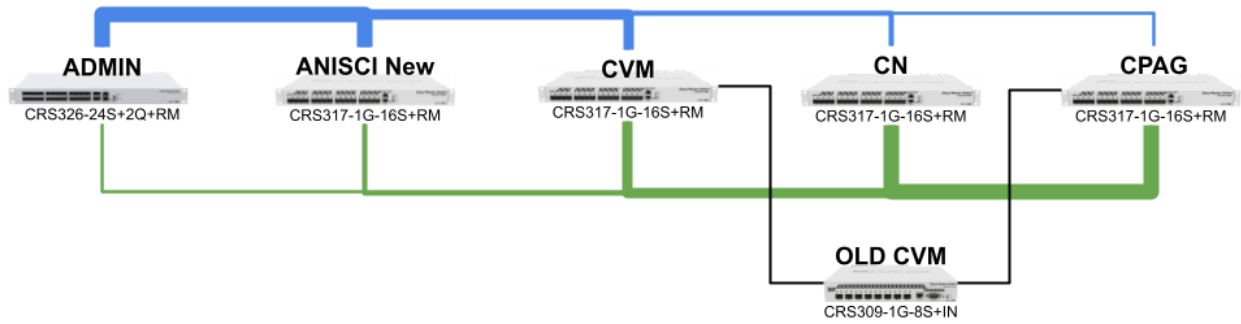Figure 12. Fiber-Optic Network Phase 2C Equipment Deployment.

Figure 13. Fiber-Optic Network Phase 3 Equipment Deployment.