



**Tri-C Westshore Campus
The Pantry
C20229009
GC BID PACKAGE
Addendum No. 01**

To the Bidders and Plan holders of Record:

This Addendum 01 modifies and forms a part of the Bid Package dated February 15, 2022. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so shall subject the Bidder to disqualification.

1. The bid due date remains unchanged. Sealed bids will be accepted at Cuyahoga Community College District Office, 700 Carnegie Ave, until 2:00 PM on Wednesday, March 9th. No public opening will occur.
2. Attached is a copy of the pre-bid meeting minutes, including answers/clarifications to questions, a copy of the sign-in sheet, Tri-C's ITS standard, rendering and referenced drawings.

Pre-Bid Meeting Minutes

Date: Feb 25, 2022

Location: **Cuyahoga Community College**
Westshore Campus
First Level – Student Services Area

Time: 9:00 AM

Re: **THE PANTRY, TRI-C CONNECT**
WESTSHORE CAMPUS
CUYAHOGA COMMUNITY COLLEGE
Tri-C Project No. C20229009 / BC 21-59

Attendees: Copy of attendance sheet included.

1. Introduction

Owner: Cuyahoga Community College
Phillip Pallone, PE
Director, Construction, Planning & Design
P: 216-987-0572
Email: Phillip.Pallone@tri-c.edu

Designer: Bialosky Cleveland
Richard Rozewski
Designer
P: 216-767-2067
Email: RRozewski@bialosky.com

2. Purpose of Pre-Bid Meeting

- a) The purpose of the Pre-Bid Meeting is to give bidders the opportunity to ask questions to the Architect, Owner Representative and Owner regarding the Contract Documents.

3. Bidding Procedures

- a) Refer to the RFP.
- b) Last day to submit RFIs: **Tuesday, March 1 by 12:00PM.**
- c) Submit RFIs to Richard Rozewski and copy Phil via email.

4. Sealed Bid Requirements

- a) Due: **March 9, 2022 at 2:00PM**
- b) **Copies: 2 hard copies and 1 electronic flash drive proposal to Phil Pallone/Judi Cooper**
- c) Received by: Cuyahoga Community College
Supplier Managed Services (SMS)
700 Carnegie Ave.
Cleveland, OH 44115
Attn: Phillip Pallone
“PRICING – C20229009 Westshore Campus - The Pantry”
- d) Public opening: **None.**
- e) The College will not be responsible if bids are delivered late or to the wrong location by the postal service or carriers of express. Late submittals will not be reviewed.

5. Bid Package Submittals

- a) Refer to the RFP.
 - a. Completed Bid Form, Certificate of Insurance, Updated W-9 Form and registered legal name of the vendor.
- b) Bid Packages:
 - a. #1 Combined Bid Package

6. Submittals - required within 7 days of the Notice to Proceed.

- a) List of subcontractors included in Bidder’s Package.
- b) Within 7 days of the date of the Notice to Proceed the Contractor shall furnish all required Product Data and Shop Drawing submittals.
- c) Company COVID-19 plan in accordance with CDC guidelines.

7. Document Availability

- a) Documents may be downloaded, viewed and printed from the link provided within the RFP. Hard copy of documents will not be provided and are not available for view at offices of the Owner, Architect and/or Owner Representative.

8. Finances

- a) Prevailing Wages are required as indicated in the RFP. The link to the State of Ohio site is included within the RFP.

9. Schedule

- a) Anticipated Notice to Proceed: ~March 18, 2022.
- b) Project Completion: July 1, 2022.

10. General Overall Project Scope

- a) This project includes renovations at the Tri-C Westshore Campus, first level of the student services area.

11. Work Under Separate Contracts

- a) Coordinate the work of this Contract with the work performed under separate contracts.
- b) Foodservice Equipment: The College will furnish for Contractor installation.

12. Project Specifics - Front End Documents / Division One

- a) Adjacent Campus spaces will be in operation during construction, close coordination with the College is required to eliminate disruptions due to noise and vibration.
- b) Refer to Specification section 01 10 00 Summary for additional information regarding access to site, coordination with occupants, and work restrictions.
- c) Smoking is not permitted on campus, including vapor-type smoking.

13. Diversity

- a) Diversity is encouraged but not required. See the goals listed within the RFP.

14. Site Walk-thru.

15. Questions and Answers

Q: What is the height of the structure above?

A: 16'-4" A.F.F.

Q: What is the thickness of the slab?

A: Anticipated thickness of slab, 5" based on drawing 1/A-520, see attached Arch set 1

Q: Location of Electrical Panels?

A: Switchgear #123, see attached plan A-101B (Arch set 1)

Q: Location of Security Patch Panels

A: MDF Room 104, see attached plan A-101 (Arch set 1)

Q: Tri-C Security Vendor?

A: US Communications, Contact: Dawn Silavent, Dawn.Silavent@tri-c.edu; attached is Tri-C's standard for construction

Q: Fire Alarm system provider, location of panel?

A: Bay Mechanical, Contact: Chuck Hall, CHall@baymec.com, location to be confirmed:
Switchgear #123, see attached plan A-101

Q: Fire protection provider?

A: R&M HEATING & AIR CONDITIONING

Q: Is a Bid Bond required?

A: No bid or performance bonds are required.

Q: Is a bidders qualification required for this project?

A: Yes.

Q: What is the temporary barrier to be made out of?

A: Particle board with a door, lockable during off hours. No insulation required.

Q: Is the GC responsible for fireproofing, fire alarm, sprinklers, and camera / security system?

A: Yes, the GC is responsible for coordinating fireproofing, fire alarm, modifying sprinkler system and coordinating and installing cameras and security system per construction documents.

Q: Where should the team enter the space when working and receiving supplies or equipment?

A: Access on the ground level to the loading dock is just west of the suite.

Q: Confirm method for pricing wall and glazing graphics.

A: Architect to supply printable file, GC responsible for printing and installing wall and glazing graphics, refer to spec section 08 4226 and 09 7200 for information on WF-3 and WG-1. See attached rendering for design intent of window graphic.

Q: Is it assumed that storefront should be protected and reused?

A: Yes, it is the GC's responsibility to protect storefront during removal and prepare for reuse.

Q: Is there attic stock of the existing corridor tile.

A: Yes

Q: Should the Student Life area existing carpet be protected during demo and construction?

A: Yes

Corrections:

Existing Display in Corridor 110 to remain; relocate to adjacent wall as required to accommodate relocated storefront.

Relocated built-in; keynote 4, A100; to be relocated to different area in building. Preserve during demolition.

END OF PRE-BID MEETING MINUTES

CUYAHOGA COMMUNITY COLLEGE

STANDARD CABLING INSTALLATION PROCEDURES AND GUIDELINES

Dated: 1/13/2020

ITS Network Services has the responsibility of planning, developing, managing and maintaining the most effective, efficient and economic communications network possible. To ensure that Cuyahoga Community College's voice and data communications needs are met, ITS Network Services (Network Services) must be consulted during the initial planning of new construction or renovation of existing space. The Structured Cabling Specification for Data and Fiber is constantly changing due to the implementation of new technologies, and as such this document should be checked frequently for updates. The Universal Wiring Plan, UWP, is based in part on the *BICSI, EIA/TIA 569 and City of Cleveland electrical codes and standards*. All construction/renovation projects on campus requiring telecommunications services from an outside vendor must consider this document as an integral part of their construction/renovation.

Network Services is responsible for the oversight of the installation and maintenance of this voice and data network infrastructure which in turn provides critical applications such as phone services, voicemail, electronic mail, web access, multimedia, life safety and security related support services. In addition; emergency phones, E911 compliance and a host of other administrative applications require the implementation of a *highly redundant and reliable* voice and data network infrastructure.

It is the purpose of this document to set the standards for new construction to meet the specifications of the existing network, in order for Network Services to better support the college and its mission. The design of the voice and data network is an integral part of the ***budgeting, development and planning*** process of a project. It is critical to get Network Services involved at the very beginning of all projects.

Project Manager should supply the following information:

1. A description on the scope of the project in regard to voice and data.
2. Project time frame.
3. Budget account information for charge back (if applicable).
4. End user contact information (i.e. name(s), phone, email, and fax).
5. Building and Floor prints with accurate room numbers.
6. Building and Floor prints with voice and data locations.
7. AutoCAD drawing format files of the telecom, electrical and furniture.
8. Provide vendor availability for walkthrough at job site before bidding process.
9. Should include labor cost for vendors at prevailing wage.

Each project will provide a set of Telecommunications drawings (T drawings) separate from the electrical drawings (E drawings), and furniture drawings. These drawings will illustrate the following:

1. All voice and data locations.
2. Equipment room locations (CMDF/MDF/IDF/Classroom).
3. Cable pathways and risers.
4. Building entrances.
5. HVAC systems in network equipment locations.
6. Final room numbers and furniture layout.
7. Electrical layout.

Specifications

Any deviations from the standards below must be approved by ITS Network Services before installation

I. CABLE TYPES

- A. All cables installed exposed in occupiable spaces or in ceilings not enclosed in conduits must be FEP fire rated for plenum type ceiling areas.
- B. All fiber optic cables installed in ceilings must be installed in conduits or plastic inner duct; if exposed in occupiable spaces or in ceilings which are air plenum areas, the plastic inner duct must be plenum rated.

II. CABLE INSTALLATION

- A. Cables should be routed in existing cabling trays or conduits where available and/or possible.
- B. Cables not routed in trays or conduits must be suspended above the ceiling via bridal rings, cables ties or over existing structural supports and not laying on sprinkler or water lines. Minimum height above the ceiling tiles should be at least six inches where possible, and preferably to two or three feet.
- C. Once installed, cables should be neatly strung with all slack removed so as to minimize sagging.
- D. Cables should not be kinked, excessively twisted or severely bent at any point; minimum manufacturer bend radius for each cable type should be maintained at all times.
- E. Cables which cannot be installed in ceilings and not enclosed in trays, conduits or raceways must be fastened to walls or mounting surfaces with appropriate rings, clamps or ties and neatly routed via a path that minimizes the potential for damage.
- F. Cables should be neatly dressed and logically routed in CMDF/MDF/IDF/Classroom areas through D-rings to their appropriate termination points; all cables must be permanently numbered or labeled either on the termination equipment or directly on the cable jacket.
- G. Excess cable at the station end should be neatly tied in a loop above the point where the cable exits the ceiling. All cables must be permanently numbered directly on the cable jacket and face plate. See how to number the cable location Cable Numbering Requirement paragraph.

III. CONDUITS and CEILINGS

- A. Conduit must be home run from each information outlet to an accessible pull box, and then from the pull box large conduits to the IT closet.
- B. All conduits 1" or larger can have no more than three (3) 90-degree bends, with push-on plastic bushings on the termination end.
- C. Conduit from the pull boxes to the IT closet must be sized-in appropriately and filled to no more than 40% of capacity.
- D. No conduit continues more than 100' without a pull box.
- E. Wireless access points should be 84 inches above finished floor in application, assume drops for wireless access every 50 feet.

IV. DRYWALL CEILING

- A. The conduit must be home run from each office location all the way to the cable tray in the corridor.
- B. Cable tray can be used to run low voltage other cables.
- C. Access panels must be installed every 50 feet apart and just outside the IT closet.
- D. Access panels are minimally 2' x 2' and must meet fire rating specifications.
- E. All conduits 1" or larger can have no more than three (3) 90-degree bends, with push-on plastic bushings on the termination end.
- F. No conduit continues more than 100' without a pull box.
- G. Wireless access points should be 84 inches above finished floor in application, assume drops for wireless access every 50 feet.

V. STATION RECEPTACLE INSTALLATION

- A. Two data cables and station receptacles should be installed for any new individual device location needed, as near as possible to designated locations; receptacles should be accessible and protected from potential damage wherever possible.
- B. Station receptacles must be securely fastened to walls, office partitions or power poles whether the cables are installed internal or external to the mounting surface.
- C. Externally mounted raceways and receptacle bases installed on cinderblock, brick or other masonry surfaces must be anchored with appropriate fasteners.
- D. Station jacks and connectors must be installed according to manufacturers' specifications; spare pairs from voice/fax jacks should be neatly wrapped around the voice cable jacket.
- E. All receptacles must be labeled and/or numbered with consecutive and appropriate station designations and continue existing labeling numbers whenever existing labeling is in place; base plates should be numbered as well as covers in case of loss or damage to the cover. All rack mounted receptacles should be labeled consecutively and to match their wall counterparts.
- G. The RJ-45 face plate modular couplers should be blue, unless otherwise specified.
- H. All the wall plates for data plug color specified by the contractor to match the color of other face plates in the room.
- I. All data and cable should be CAT6 cable, blue, unless otherwise specified.
 - J. All network cabling faceplates, wall jacks, rack jacks, rack blocks and associated cabling infrastructure pieces must be manufactured by Panduit.
 - K. The current standard for sockets and receptacles are Panduit MiniCom.

VI. TESTING AND DOCUMENTATION

- A. Data station cables must be tested for length, continuity, wire mapping and crosstalk, and adhere to CAT6 functionality standards as applicable in ANSI/TIA/EIA.
- B. Fiber optic cables must be tested for dB loss readings and adhere to the specific fiber type functionality standards as applicable in TIA/ISO.
- C. Documentation provided to the college must include all of the above test results as well as maps of floor plans indicating receptacle designation locations and physical cable routes.

VII. CAMPUS MAIN DISTRIBUTION FRAME / MDF / IDF

- A. CMDF/MDF/IDF should always be a separate room, and not shared with other utility services (especially electrical services).
- B. When possible, room shall not be adjacent to the electrical distribution room or next to elevator or elevator service rooms.
- C. CMDF/MDF/IDF room size should be minimum 8' x 10' or determined by the size and use of the network hardware in the building. For buildings exceeding 50,000 ASF, room size shall increase a minimum of 30 square feet per each additional 50,000 ASF. As room size increases, a 3:2 length-to-width ratio shall be maintained.
- D. In the event that program space is assigned on the same level as the MDF Room, the MDF Room shall be sized and provisioned to serve as an Intermediate Distribution Frame (IDF) Room. This includes pathways for station cable and riser cable.
- E. All rooms need to be environmentally controlled to ensure reliability of sensitive electronic equipment.
- F. Backboards for CMDF/MDF/IDF are to be ¾" plywood wood on one side, and painted with flat light colored fire-retardant paint on all sides. All usable walls should have backboards.
- G. HVAC Equipment: Provide dedicated HVAC equipment required to meet 24/7 operational requirements of network hardware. Condenser cooling water and refrigerant piping shall be routed outside the CMDF/MDF/IDF.
- H. Locate the door of the MDF Room on one of the shorter walls of the room. The door should be offset toward either side of this wall. The door swing shall not in any way restrict access to riser sleeves, entrance conduits, cable tray, or the main backboard. An outward door swing is preferred. Coordinate with project architect. The door shall be 36-inches wide and 6-feet 8-inches high. It shall be secured with a secure proximity card reader, connected to Campus Police access systems, and a key core as a backup.

Network Backbone Cable Requirements:

1. CMDF to MDFs with 24 strand single-mode and 18 strand multi-mode OM3 fiber optic cables.
- AND-
2. MDF to IDFs with 24 strand single-mode and 18 strand multi-mode OM3 fiber optic cables.

The backbone for data will be the cables from the CMDF (Campus Main Distribution Frame) to each building MDF (Main Distribution Frame) and the cables from each building MDF to all IDF's (Intermediate Distribution Frame) in that building.

Analog Circuit Backbone Cable Requirements (done by exception now, per project):

3. CMDF to MDFs with (1) 100 twisted pair cable CAT4 cable and MDF to IDF with (1) 50 twisted pair cable CAT4 cable; both terminated on 110 punch down blocks.

The backbone for voice/fax will be the cables from the CMDF (Campus Main Distribution Frame) to each building MDF (Main Distribution Frame) and the cables from each building MDF to all IDF's (Intermediate Distribution Frame) in that building.

VIII. NETWORK DISTRIBUTION CABLE REQUIREMENT

Termination of all cabling will be a modular design to minimize maintenance, cost of moves, additions and changes. The faceplate design will be capable of supporting a variety of termination configurations.

The Location of CMDF, MDF and IDF should be center of the building and it should top of each other:

- Two 4" conduits between floors (CMDF/MDF/IDF).
- Ethernet cable distance should not exceed 270'. **If distance is more than 270' from the IT closet to faceplate another MDF/IDF should be created.**

Each and every installed faceplate will have a base or minimum configuration consisting of:

- Two (2) UTP CAT6 cable with RJ-45 connectors for Ethernet

IX. ELEVATOR PHONES

- A. Elevator phone line installations should be documented and terminated by the Electrical Contractor or cable installer from the CMDF/MDF/IDF/demarc to the Elevator phone. The current standard for connectivity is to use POTS or analog lines for Elevator phones.

X. EMERGENCY PHONES

- A. Emergency phone models and location are determined in cooperation with Campus Police, per project.

XI. WIRELESS ACCESS POINTS

- A. All wireless access points are to be mounted on the ceiling or highest horizontal surface, including acoustic tiles
- B. Manufacturer instructions and guidelines are to be followed at all times, to ensure proper installation.
- C. Cabling to wireless access points needs to be **Cat6a**, to support 2.5/5/10Gbs at support distances.
- D. Minimum 10' service loop is to be looped in the ceiling, to allow for minor adjustments to improve wireless signal.

XII. BACKBONE WIRING FOR CMDF/MDF/IDF

Unless otherwise specified, all fiber, copper, and backbone connectivity will be terminated on plywood backing, on the wall behind the network equipment racks.

Optical Fiber Cable used by the college is manufactured by Corning:

- 8-10.5/125 Microns single mode fiber LC terminated in the patch panel
- 50/125 um OM3 multimode fiber cable LC terminated in the patch panel
- Vendor produce all certifications on cabling using OTDR testing tool and follow TIA 568C.0 TSB 140 and ISO 14763-3 to ensure installation meets specifications.

Data Cable used in the college manufactured by General Cable or equivalent:

- Category 6 terminated Panduit MiniCom Panels.
- Four (4) pairs Category 6 UTP terminated in the receptacles.
- CMDF/IDF/MDF Basic Room Requirement
- Vendor shall produce all certifications on cabling prior to installation to ensure safe installation according to TIA/EIA standards.

Each CMDF/MDF/IDF room should be 8' x 10' and consist of the following:

- Four (4) L6-30R receptacles
- In CMDF and MDF, two 100 amp 208v circuits delivered through dual-pole (50 amp per pole) breakers should be delivered to a 4-wire bare end connector, for use with two high-capacity UPS systems.
- A minimum of Three (3) 4'x8' 3/4" fire treated plywood mounted backboards
- Two (2) 4" core bores in the floor for vertical fiber.
- One (1) 10" long 4" high and 12" wide cable tray one (1) T fitting in the end of the cable tray or as identified.
- Secure proximity card reader, connected to Campus Police access systems, programmed to limit access to IT/maintenance/Police
- 2 Quad 115 Volt, 20 Amp outlets.

XIII. STANDARD NETWORK EQUIPMENT

Network Services will specify equipment as needed, per project, and installs all network equipment, unless otherwise specified. Network Services may request assistance in installation of wireless access point hardware in a project.

XVIII. STANDARD WAN OR MAN COMMUNICATION CONNECTIVITY FOR CMDF (new campuses only)

Two (2) 10Gb or 1Gb circuits for communications (minimum), College-provided

XIX. STANDARD EQUIPMENT RACKS FOR CMDF/MDF/IDF (quantity dependent on equipment)

Chatsworth 4-post open network equipment rack with wire management; ITS will specify this exact model per project.

XX. STANDARD EQUIPMENT FOR CLASSROOM COMPUTER LABS (quantity may change based on number of PCs)

ITS determines, per project, if a dedicated switch is needed for a classroom computer lab. If required, each classroom computer lab to consist of the following minimum:

One (1) 1U network switch

One (1) 19" wall-mounted network equipment cabinet, locking, fully enclosed, with fan, and mounted high, near the ceiling. Exact model to specified by ITS, per project.

One (1) fiber patch panel

One (1) Cat6 patch panel

One (1) wire management and duplex 110 volt, 20 amp power for the switch and fan

All lab wiring needs to be terminated in the room standard lab cabinet. Termination of all cabling will be a modular design to minimize maintenance, cost of moves, additions and changes. The faceplate design will be capable of supporting a variety of termination configurations.

Each student desk must have one (1) UTP CAT6 cable RJ-45 connector for Ethernet, installed faceplate (Panduit) and two (2) power outlets for CPU and monitor.

All fiber cable runs will be home run from the lab switch cabinet to CMDF or MDF. The 12 strand fiber from the cabinet to MDF must be terminated properly and document any losses. All fiber used must be standard 50/125 OM3 multimode or single mode Fiber 8-10.5/125 microns, depending on the location need. All fiber for a classroom computer lab should be terminated in the fiber patch panel in the wall-mounted network equipment cabinet.

Note - For Video

The final equipment identification dependent on final drop location and distance.

XXI. PROCEDURES AND RESPONSIBILITIES

- A. Work areas should be kept clean and orderly; areas where work has been completed must be restored to their original condition.
- B. Safety at the work area must be a priority at all times; ladders and equipment in hallways should not be left unattended for extended periods of time.
- C. Ceiling tiles should be closed at the end of every work day whenever possible; all ladders and equipment must be stored in appropriate locations.
- D. Maximum cooperation with personnel occupying areas where work is occurring should be maintained at all times; scheduling work at their convenience when necessary should always be facilitated.
- E. All personnel performing work should be professional and courteous at all times.

XXII. LAN CONNECTION REQUIREMENTS

- A. Two (2) ethernet drops per office or device location minimum, unless otherwise specified.
- B. Four (4) drops per classroom. Install the drops opposite wall of each other - two near the teacher's desk or in an ATC cabinet when present and the other two on the opposite wall.
- C. Two (2) drops installed next to the printer (central) office location.
- D. Keep the drops way from being under the windows.
- E. Have an alternate site ready in case the drop cannot be installed.
- F. Data drops cannot be installed between shelves and cabinets.
- G. Try to install the drops as close to AC outlets as possible. All drops should be installed next to desk or underneath of the desk where they can be easily accessible.
- H. Do not have a drop located where it will be going across the floor or in front of the door.

- I. All drops to be placed behind furniture are to have a patch cord already pre-installed prior to furniture installation, along with the patch cable being individually labeled for identification.

XXIII. CABLE NUMBERING RECOMMENDATION

- A. All cable numbering and labeling standards must be approved by ITS per project.
- B. The first part of the cabling should be the campus (M for Metro, E for East, W for West, etc.)
- C. Second is the building (LA for ELA, SS for MSS).
- D. Next is the IT closet number. (CMDF/MDF/IDF room number)
- E. Lastly the drop number A01 - A48, B01 – B48, etc. (letter symbolizes patch panel)

Examples:

MSS-509-A05 - Metro Campus, Student Services Building, IT closet number 509 and drop number A05.

WBT-115E-C33 - Western Campus, Business & Technology Building, IT closet number 115E and drop number C33.

EEC-024-B61 - Eastern Campus, Education Center, IT closet number 024 and drop number B61.

CUYAHOGA COMMUNITY COLLEGE FIBER BACKBONE/CABLE NETWORK DESIGN

ANALYSIS & DEFINITION

This section examines a structured approach that ties together the major Components of a building wiring system. The analysis will reference the following model of building cable components:

- o Station Termination (ST)
- o Horizontal Distribution (HD)
- o Intermediate Distribution Frame (IDF)
- o Vertical Interface Distribution (VID)
- o Main Building Distribution Frame (MDF)
- o Campus-Wide Backbone Subsystem (CMDF)
- o Wide Area Network Interconnection (WAN)

The **Station Termination (ST)** subsystem is the interface between the user's equipment and the building network. An example of a station termination is a modular jack, such as the familiar RJ-45 interface used primarily for data connections.

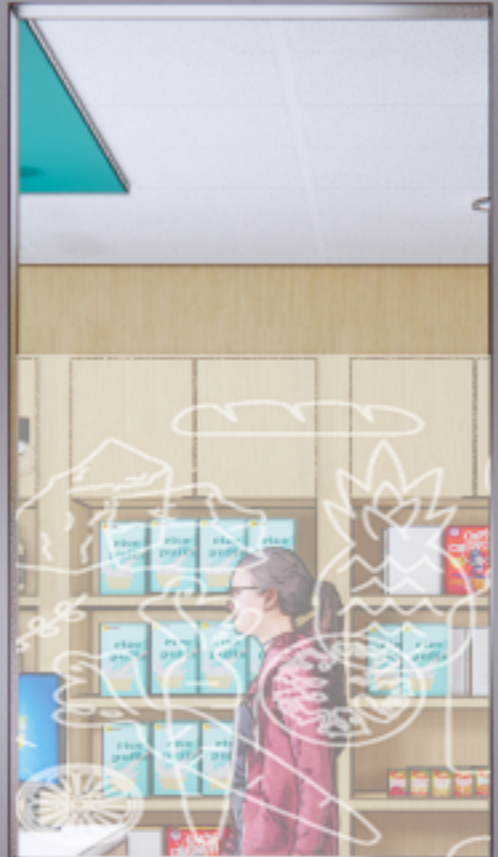
The **Horizontal Distribution (HD)** subsystem is the wiring that connects the station termination to the IDF. This cabling may be routed through ceilings, ducts in floors and walls, or placed within wall-mounted conduit.

The **Intermediate Distribution Frame (IDF)** is the breakpoint between the Vertical Interface Distribution and the Horizontal Distribution. An IDF is the point where the lines from the vertical cabling are terminated and then patched into the appropriate Horizontal Distribution lines. The IDF may also serve as a connection point for Local Area Network (LAN) equipment.

The **Vertical Interface Distribution (VID)** subsystem, sometimes called the riser system, refers to the transmission facilities that originate from the MDF and are vertically distributed to each IDF in the building. As the vertical cable passes by a given IDF, the cables intended for that IDF are separated from the bundle and terminated.

The **Main Building Distribution Frame (MDF)** is the interface between the campus network and the intra building distribution. The campus subsystem facilities are terminated and are then patched over or cross connected to the Vertical Interface Distribution blocks to provide connection to any IDF in the building. In most buildings, this cross connection should be located in the basement of each building.

The **Campus Main Distribution Frame (CMDf)** is the primary hub for each campus. This subsystem connects the campuses and external locations via the WAN components.



FLOOR PLAN GENERAL NOTES

- ALL DIMENSIONS ARE TO FACE OF WALL, UNLESS NOTED OTHERWISE.
- REFER TO OVERALL DIMENSION PLANS FOR GRID LAYOUT AND EXTERIOR WALL LOCATIONS.
- SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.
- SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
- SEE ELEVATION AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE. SEE DETAILS ON AREA.
- MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSKEEPING FASE PAS ARE TO BE PROVIDED BY THE TRADE SURPLING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. FASE PAS ARE TO BE PROVIDED BY THE TRADE SURPLING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. FASE PAS ARE TO BE PROVIDED BY THE TRADE SURPLING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR.
- THERE SHALL BE NO EXPOSED CMU WALLS IN PUBLIC SPACES. WALLS SHOWN AS RATED SHALL BE CMU WITH GYP. FURRING.
- SEE CODE AND LIFE SAFETY PLANS FOR RATED WALL LOCATIONS.
- FALL PROTECTION SHALL BE PROVIDED ON THE ROOF.
- LIGHTING PROTECTION SHALL BE PROVIDED.

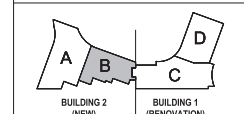
CODED NOTE LEGEND

- ① CLUSTERED WINDOWS
- ② DEPRESSED FLOOR SLAB BUILT-UP WOOD DANCE FLOOR (SEE SPECIFICATION SECTION 09 64 99)
- ③ REFER TO ENLARGED LABORATORY PLANS FOR SUPPLEMENTAL INFORMATION
- ④ RATED VESTIBULE, WALLS AND CEILING
- ⑤ ROOF BALLAST
- ⑥ GYPSUM BOARD ON 3.0" MIN. STUD, TYPICAL AT ALL SPANNING GLAZING LOCATIONS BELOW CEILING
- ⑦ KNEE WALL: 5" GYP. BOARD ON VTL. STUD
- ⑧ ROOF PLAZA DECK PAVERS
- ⑨ FROP-ID ALUM. W/ CL. MULLION
- ⑩ SEE KITCHEN EQUIPMENT PLANS
- ⑪ VESTED METAL LOCKERS: SINGLE TIER, 24" W BY 24" D. REF TO DETAIL 10A-65. INCLUDE VENTILATION REQUIREMENTS.
- ⑫ PLASTIC LAMINATE LOCKERS: SINGLE TIER, 18" W X 24" D. REF TO DETAIL 10A-65.
- ⑬ VESTED METAL LOCKERS: DOUBLE TIER, 18" W X 18" D. REF TO DETAIL 10A-65.
- ⑭ WALL MOUNTED COUNTERTOP. REF TO FINISH PLANS FOR MATERIAL. REF TO DETAIL 3A-32.
- ⑮ MESH DISPLAY PLATFORM ON CASTERS, 5M TO DETAIL 1A-933. MATERIAL TO BE PAINTED PLYWOOD.
- ⑯ WALL MOUNTED SHELVING. REF TO FINISH PLANS FOR MATERIAL. REF TO DETAIL 1A-901.
- ⑰ DEPRESSED FLOOR SLAB 12" OR MATCH KITCHEN EQUIPMENT MFG. REQUIREMENTS.
- ⑱ DEPRESSED FLOOR SLAB. SEE FLOORING SPECIFICATION.
- ⑳ SOUND BARRIER MULLION. CAP. SEE 19 8 21/ST/RT.

KEYNOTE LEGEND



KEY PLAN



#	DATE	CHANGE DESCRIPTION

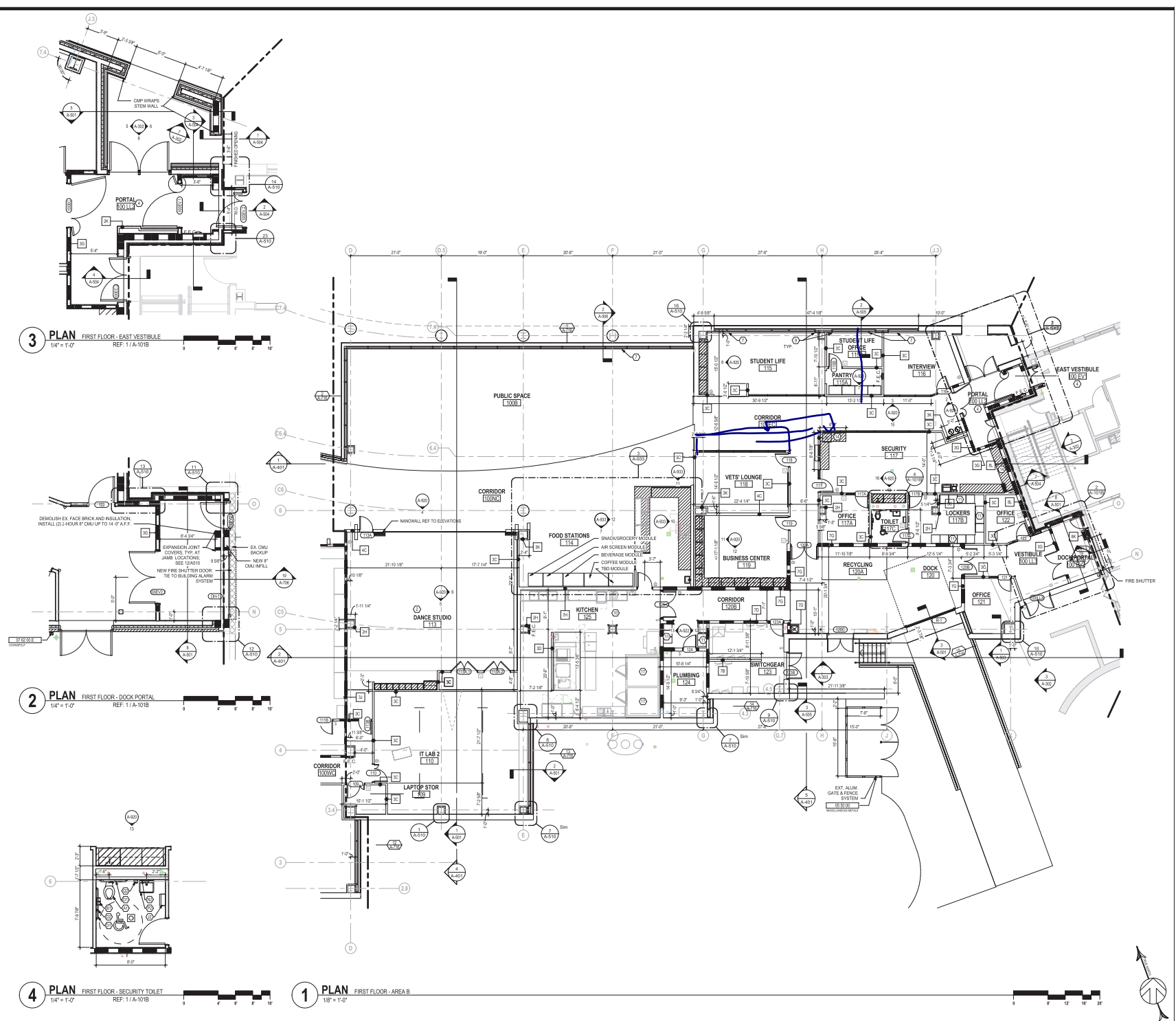
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CUYAHOGA COMMUNITY COLLEGE

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DRAWING TITLE:

FIRST FLOOR PLAN - AREA 'B'

1/11/2020
 DRAWN BY: Author CHECKED BY: Checker
 16213.01
A-101B
 RECORD DRAWINGS



3 PLAN FIRST FLOOR - EAST VESTIBULE
 1/4" = 1'-0"
 REF: 1/A-101B

2 PLAN FIRST FLOOR - DOCK PORTAL
 1/4" = 1'-0"
 REF: 1/A-101B

4 PLAN FIRST FLOOR - SECURITY TOILET
 1/4" = 1'-0"
 REF: 1/A-101B

1 PLAN FIRST FLOOR - AREA B
 1/8" = 1'-0"

