



Addendum #04 for RFB #918604-01

Project Name: DHS CC Strategic Space Planning Hoover 3rd Floor Dept of Admin Services

DAS RFB #: 918604-01

DAS Project #: 9186.04

Date: September 18, 2024

Addendum #4:

This addendum is issued to modify, clarify, or amend the original Project Drawings and Specifications and is hereby made part of the Contract Documents. The Contractor shall be responsible for incorporating items in this Addendum to the Work. The following shall take precedence over anything to the contrary in the Drawings or Specifications. **This addendum shall also supersede any previous addenda.**

The receipt of this Addendum shall be acknowledged by inserting its number and date in the space provided on the Bid Form.

This Addendum consists of:

General Items:

1. Per owner request, add data cabling as part of the project. This is to add cabling and the installation of the cabling only. Termination and equipment is still owner provided and owner installed.
2. Revised Drawing sheet T-000, T-103 (2 Pages)
3. Add Specification 27 1000 Structured Cabling to project manual (4 Pages)

Technology Specifications:

1. Section 27 1000 – STRUCTURED CABLING:
 - a. **ADD** specification section.

Technology Drawings:

1. Drawing T-000 – TECHNOLOGY COVER
 - a. **MODIFY** Telecommunications Distribution Notes, Telecommunication Symbols, and Technology Responsibility Matrix.
 - b. Refer to attached full size sheet T-100.
2. Drawing T-103 – THIRD LEVEL TECHNOLOGY COMMUNICATIONS PLAN
 - a. **ADD** Data cable quantities to rough in locations.
 - b. Refer to attached full size sheet T-103.
 - c. Keynote #3 has been **modified**.

TECHNOLOGY GENERAL NOTES

- 1. ALL NOTES APPLY TO THE FOLLOWING SERIES SHEETS: FA & T SERIES
2. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. BEGIN INSTALLATION AND ROUGH-IN ONLY AFTER PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION IS COMPLETE. COORDINATE WITH BUILDING STRUCTURE, ARCHITRAVE, MECHANICAL SHEET METAL, ALL PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, EQUIPMENT ACCESS/CLEARANCE, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR REWORK OF INSTALLED EQUIPMENT RESULTING FROM INSUFFICIENT COORDINATION.
3. INCORPORATE THE REQUIREMENTS OF THE SPECIFICATIONS, DRAWINGS, AND STATE AND LOCAL CODES INTO THE INSTALLATION OF COMMUNICATIONS AND LIFE SAFETY/SECURITY SYSTEMS.
4. EACH TRADE IS RESPONSIBLE FOR MAKING PENETRATIONS WHERE REQUIRED IN EXISTING OR NEW WALLS, FLOORS, CEILINGS, AND ROOFS. MAKE PENETRATIONS NEAT, CONCEAL OR CAULK OVERCUT.
5. PROVIDE A PULL STRING IN ALL NEW CONDUITS FOR EASE OF CABLE INSTALLATION.

COMMUNICATIONS DEMOLITION NOTES

- 1. ALL EXISTING DEVICES AND DEVICE LOCATIONS WERE MADE BY CASUAL FIELD OBSERVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING SYSTEM COMPONENTS AND DEVICE LOCATIONS.
2. PROVIDE LABOR AND MATERIALS TO REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.
3. SYSTEMS SCHEDULED TO BE REMOVED SHALL BE DONE SO IN THEIR ENTIRETY. ABANDONED CABLING SHALL NOT BE ACCEPTED. REMOVE ALL ASSOCIATED FIELD DEVICES AND HEAD END EQUIPMENT.
4. REMOVED EQUIPMENT AND SYSTEMS SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS OTHERWISE NOTED. MATERIALS NOT SALVAGED BY THE OWNER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR PROPER DISPOSAL.
5. REMOVE AND REINSTALL CEILING TILE REQUIRED FOR THE WORK BEING DONE UNDER THIS CONTRACT. DAMAGED CEILING TILE SHALL BE REPLACED TO MATCH EXISTING.
6. DO NOT CUT EXISTING TELECOMMUNICATIONS WIRING, CABLES OR CONDUIT AS EXISTING SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR WHO CUTS IN-SERVICE CABLES SHALL BE RESPONSIBLE FOR DOWNTIME AND THE COSTS TO REPAIR.

TELECOMMUNICATIONS DISTRIBUTION NOTES

- 1. PROVIDE AND INSTALL CATEGORY CABLING ONLY FOR ALL LOCATIONS SHOWN. ALL TERMINATIONS, TERMINATION EQUIPMENT/DEVICES, AND HEADEND EQUIPMENT ARE OWNER FURNISHED OWNER INSTALLED.
2. PROVIDE PENETRATIONS AND PATHWAYS AS REQUIRED TO ROUTE ALL CABLING INFRASTRUCTURE ILLUSTRATED IN THE DRAWINGS. TREAT EACH NEW PENETRATION AS A 1-HOUR FIRE RATED WALL UNLESS OTHERWISE NOTED. PROVIDE REQUIRED FIRE STOPPING TO MAINTAIN THIS RATING.
3. REAM CONDUIT TO REMOVE BURRS AND ROUGH EDGES. PROVIDE A PROTECTIVE BUSHING AT THE END OF ANY CONDUIT STUB TO PROTECT CABLING INFRASTRUCTURE.
4. PROVIDE CABLE SUPPORT FOR ROUTING ALL NEW INFRASTRUCTURE. INSIDE OF ABOVE ACCESSIBLE CEILING SPACES. CABLING CAN BE FLOWN FREE-AIR UTILIZING J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES TO SUPPORT CABLING. CABLE SHALL NOT BE ALLOWED TO REST ON TOP OF CEILING TILES OR TO UTILIZE GRID SUPPORT SYSTEM.
5. ALL OPEN CEILING AREAS SHALL HAVE CABLING CONCEALED IN CONDUIT. EXPOSED CABLING SHALL NOT BE ACCEPTED.

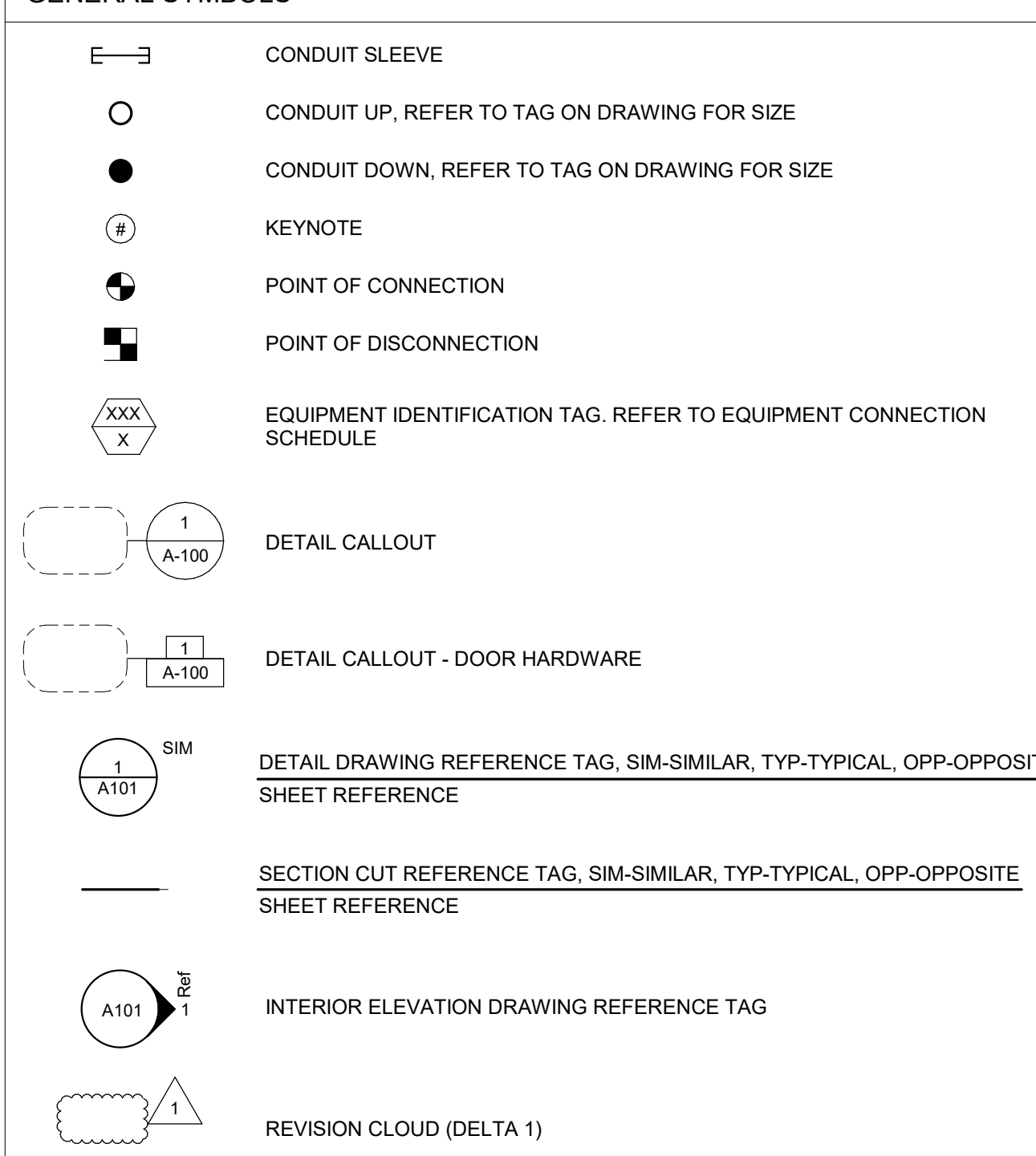
SOUND MASKING NOTES

- 1. ADD ALTERNATE #1.
2. PROVIDE SOUND MASKING SYSTEM AS ILLUSTRATED ON THE DRAWINGS. PROVIDE APPROPRIATE AMPLIFICATION, ZONE EQUIPMENT, SPEAKERS, AND ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION. REFER TO SPECIFICATION 27 51 19 FOR ADDITIONAL INFORMATION.

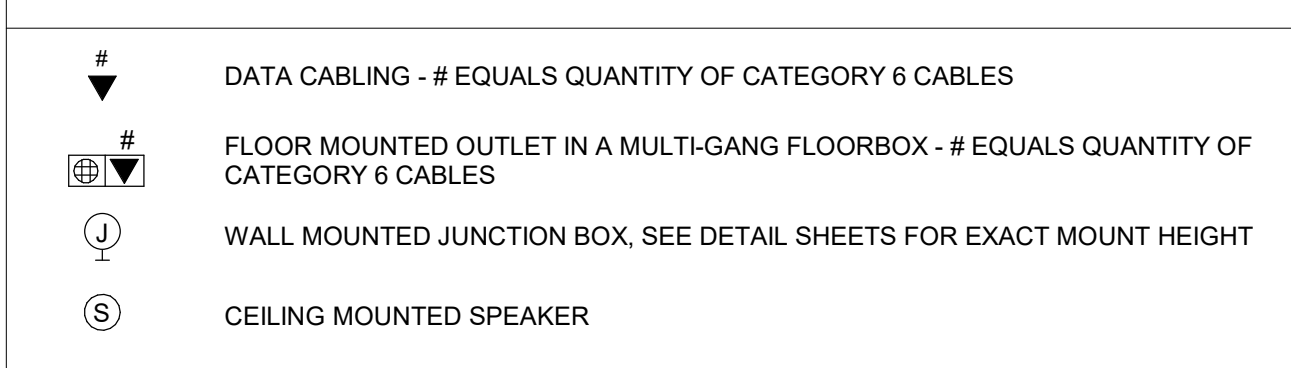
ABBREVIATIONS - TECHNOLOGY

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes terms like ADDL, AL, AR, AUTO, AUX, AV, AVG, AWG, BAT, BFF, BKGD, BLDG, BLW, BOT, BTWN, C, CCTV, CD, CL, CM, CTRL, CTY, (D), DEF, DEMO, DESCR, DET, DGTL, DIAG, DWG, E, ER, EC, ELEC, EM, EMER, EQ, EQUIP, EQUIV, EXCL, FBO, FLEX, FR, FT, FUT, G, GND, GC, IRE, JB, KVA, KW, LVC, MC, MCB, MDP, MLO, MAX, MLC, MTD, NC, NIC, NM, NO, NTS, OAE, OFCI, OFOI, PB, PNL, PWR, QTY, RR, RN, RCP, REC, RECP, REQD, RGS, RM, S, SCOR, SCHED, SECT, SPKR, STP, SYS, TBD, TEL, TM, TV, TYP, UC, UL, UON, UPS, UTIL, V, VCR, W, WG, WP, WR, XFER, XFMR, +24*

GENERAL SYMBOLS



TELECOMMUNICATION SYMBOLS



TECHNOLOGY DRAWING LIST

Table with 2 columns: NO., TITLE. Lists drawing numbers T-000 through TD-103 and their corresponding titles like TECHNOLOGY COVER, THIRD LEVEL TECHNOLOGY COMMUNICATIONS PLAN, etc.

TECHNOLOGY RESPONSIBILITY MATRIX

Large table defining provision responsibilities for various systems. Columns include system names (e.g., COMMUNICATIONS - TELECOM SYSTEMS, COMMUNICATIONS - AUDIO-VISUAL SYSTEMS) and responsibility indicators (OFOI, OFCI, CFCFI, CFCOI) for different installation types (ROUGH-IN, PATHWAYS AND SLEEVES, etc.).

GENERAL NOTE

A. MATRIX IS NOT INTENDED TO BE EXHAUSTIVE TO COVER ALL MATERIALS NECESSARY FOR SCOPE AND SHOULD ONLY BE USED TO QUICKLY IDENTIFY SYSTEMS AND RELATED INFRASTRUCTURE INSIDE AND OUTSIDE THE BID OF THIS PROJECT. ANY ITEMS FURNISHED OR INSTALLED BY THE BIDDING CONTRACTOR SHALL COVER ALL REQUIRED APPURTENANCES NECESSARY FOR A COMPLETE SYSTEM. THIS SHALL INCLUDE BUT NOT BE LIMITED TO, EQUIPMENT, ACCESSORIES, TERMINATIONS, TERMINATION COMPONENTS, ALL FINAL CORDAGE CONNECTIVITY, SOFTWARE, PROGRAMMING, AND THE LABOR TO INSTALL.

ARCHITECT OF RECORD

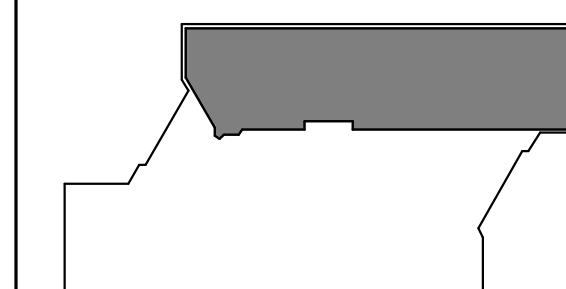
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PROJECT NAME

9186.04 - DHS CC STRATEGIC PLANNING HOOPER 3RD FLOOR DEPT OF ADMIN SERVICES



KEY PLAN

OWNER
STATE OF IOWA
RFB No. 918604-01
DAS No. 9186.04

PROJECT NO. 24.048

ISSUE

Table with 2 columns: DATE, DESCRIPTION. Lists issue dates and descriptions like 07/11/2024 50% CONSTRUCTION DOCUMENTS, 08/22/2024 100% CONSTRUCTION DOCUMENTS, 09/17/2024 ADDENDUM 4.

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SHEET NAME
TECHNOLOGY COVER

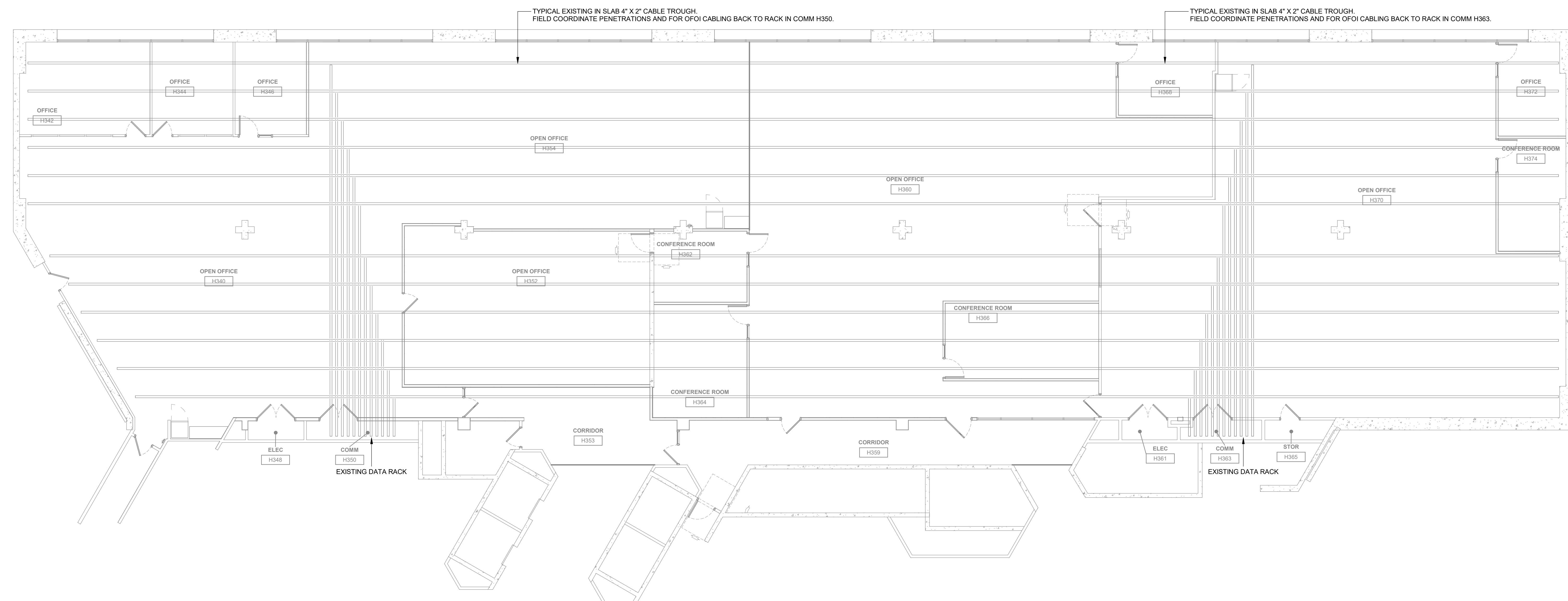
SHEET NUMBER
T-000

GENERAL NOTES

- A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- B. PROVIDE PENETRATIONS REQUIRED FOR ROUTING CABLING AND RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATINGS.
- C. PROVIDE J-HOOKS, BRIDLE RINGS AND OTHER ACCESSORIES REQUIRED TO SUPPORT ALL TELECOMMUNICATIONS AND SECURITY MANAGEMENT SYSTEM CABLING.

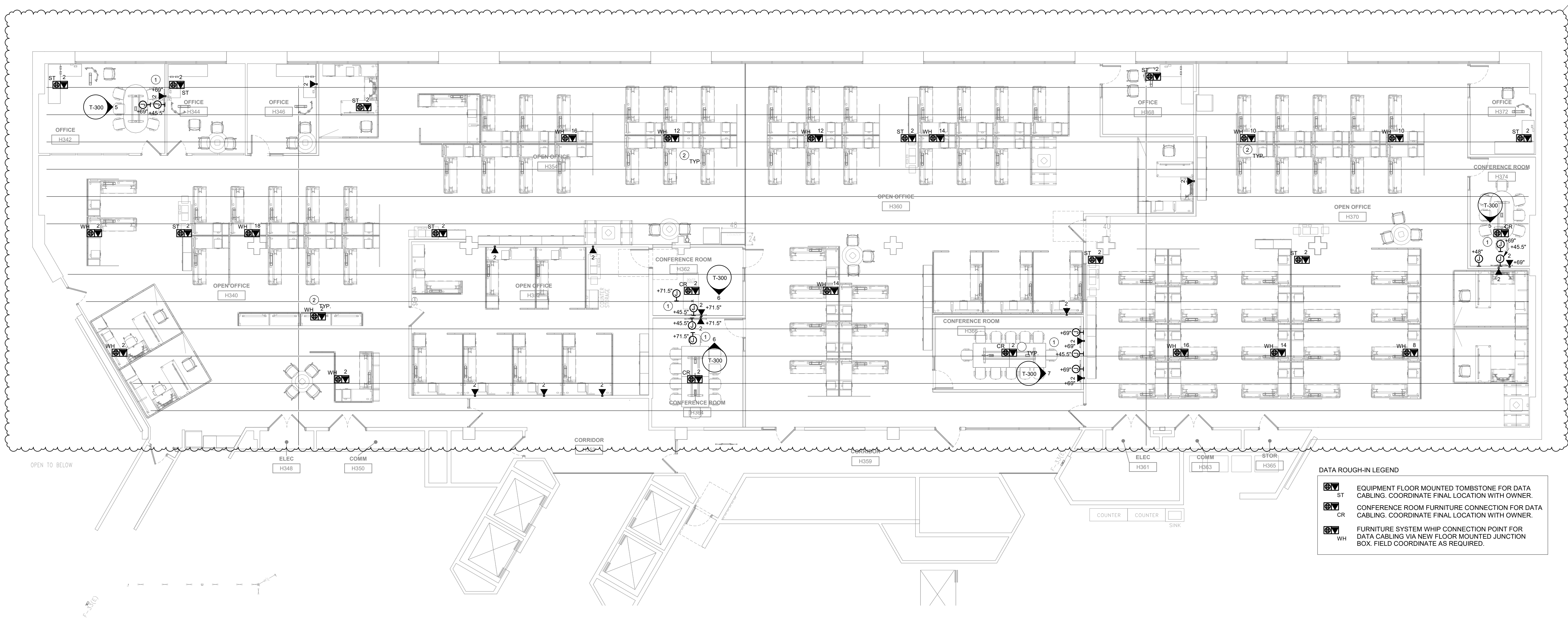
KEYNOTES

- 1 AUDIO/VIDEO LOCATION CABLING AND EQUIPMENT IS OWNER FURNISHED OWNER INSTALLED. PROVIDE ROUGH INS AND PATHWAYS FOR ALL LOCATIONS. COORDINATE WITH OWNER FOR EXACT LOCATIONS PRIOR TO INSTALLATION.
- 2 COORDINATE FLOOR BOX TOMBSTONE LOCATIONS WITH ELECTRICAL SHEETS. FLOOR HAS EXISTING RACEWAY/PATHWAY FOR DATA CABLING.
- 3 TYPICAL FOR ALL DATA LOCATIONS, CABLING IS CONTRACTOR FURNISHED OWNER INSTALLED. PROVIDE ROUGH INS AND PATHWAYS FOR ALL LOCATIONS.



2 TECHNOLOGY UNDER FLOOR REFERENCE PLAN
1/8" = 1'-0"

PROJECT NAME
9186.04 - DHS CC STRATEGIC SPACE PLANNING HOVER 3RD FLOOR DEPT OF ADMIN SERVICES



1 TECHNOLOGY FLOOR PLAN
1/8" = 1'-0"

KEY PLAN

OWNER
STATE OF IOWA
RFB No. 918604-01
DAS No. 9188-04

PROJECT No. 24.048

ISSUE	DATE	DESCRIPTION
	07/17/2024	50% CONSTRUCTION DOCUMENTS
	08/22/2024	100% CONSTRUCTION DOCUMENTS
	09/17/2024	ADDENDUM 4

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SHEET NAME
THIRD LEVEL TECHNOLOGY COMMUNICATIONS PLAN

SHEET NUMBER
T-103

SECTION 27 10 00 STRUCTURED CABLING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Communications system design requirements.
- B. Communications pathways.
- C. Copper cable.
- D. Communications identification.

1.02 RELATED REQUIREMENTS

- A. Section 27 00 00 - GENERAL REQUIREMENTS FOR COMMUNICATIONS SYSTEMS.
- B. Section 27 05 26 - GROUNDING AND BONDING FOR COMMUNICATION SYSTEMS.
- C. Section 27 05 28 - PATHWAYS FOR COMMUNICATIONS SYSTEMS.
- D. Section 27 05 36 - CABLE TRAYS FOR COMMUNICATIONS SYSTEMS.
- E. Section 27 05 43 - UNDERGROUND DUCTS AND RACEWAYS FOR COMMUNICATION SYSTEMS.
- F. Section 27 05 44 - SLEEVES AND SLEEVE SEALS FOR COMMUNICATIONS PATHWAYS AND CABLING.
- G. Section 27 05 53 - IDENTIFICATION FOR COMMUNICATIONS SYSTEMS.

1.03 REFERENCE STANDARDS

- A. BICSI N1 - Installation Practices for Telecommunications and ICT Cabling and Related Cabling Infrastructure, 1st Edition; 2019.
- B. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- C. TIA-568 (SET) - Commercial Building Telecommunications Cabling Standard Set; 2018.
- D. TIA-568.2 - Balanced Twisted-Pair Telecommunications Cabling and Components Standards; 2009c, with Addendum (2016).
- E. TIA-569 - Telecommunications Pathways and Spaces; 2015d, with Addendum (2016).
- F. TIA-606 - Administration Standard for Telecommunications Infrastructure; 2017c.
- G. TIA-607 - Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises; 2015c, with Addendum (2017).
- H. UL 444 - Communications Cables; Current Edition, Including All Revisions.
- I. UL 1863 - Communications-Circuit Accessories; Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Coordinate requirements for service entrance and entrance facilities with Communications Service Provider.
 - 2. Coordinate the work with other trades to avoid placement of other utilities or obstructions within the spaces dedicated for communications equipment.
 - 3. Coordinate arrangement of communications equipment with the dimensions and clearance requirements of the actual equipment to be installed.
 - 4. Notify the Design Team of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

1.05 SUBMITTALS

- A. Refer to Section 27 00 00 - GENERAL REQUIREMENTS FOR COMMUNICATIONS SYSTEMS.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Refer to Section 27 00 00 - GENERAL REQUIREMENTS FOR COMMUNICATIONS SYSTEMS.

1.07 WARRANTY

- A. Refer to Section 27 00 00 - GENERAL REQUIREMENTS FOR COMMUNICATIONS SYSTEMS.

PART 2 PRODUCTS

2.01 SYSTEM DESIGN

- A. Provide a complete permanent system of cabling and pathways for voice and data communications, including cables, conduits and wireways, pull wires, support structures, enclosures and cabinets, and outlets.
 - 1. Comply with TIA-568 (SET) (cabling) and TIA-569 (pathways) (commercial standards).
 - 2. Provide fixed cables and pathways that comply with NFPA 70 and TIA-607 and are UL listed or third party independent testing laboratory certified.
 - 3. Provide connection devices that are rated for operation under conditions of 32 to 140 degrees F at relative humidity of 0 to 95 percent, noncondensing.
 - 4. In this project, the term plenum is defined as return air spaces above ceilings, inside ducts, under raised floors, and other air-handling spaces.
- B. System Description:
 - 1. Building Entrance Cable: By others.
 - 2. Backbones - Within Building: Fiber optic
 - 3. Provide infrastructure and outlets where indicated on drawings.
- C. Main Distribution Frame (MDF): Centrally located support structure for terminating horizontal cables that extend to telecommunications outlets and backbone cables that extend to intermediate distribution frames (IDFs), functioning as point of presence to external service provider.
 - 1. Locate main distribution frame as indicated on the drawings.
 - 2. Capacity: As required to terminate all cables required by design criteria plus minimum 25 percent spare space.
- D. Intermediate Distribution Frames (IDF): Support structures for terminating horizontal cables that extend to telecommunications outlets.
 - 1. Locate intermediate distribution frames as indicated on the drawings.
- E. Backbone Cabling: Cabling, pathways, and terminal hardware connecting intermediate distribution frames (IDF's) with main distribution frame (MDF), wired in star topology with main distribution frame at center hub of star.
- F. Cabling to Outlets: Specified horizontal cabling, wired in star topology to distribution frame located at center hub of star; also referred to as "links".

2.02 PATHWAYS

- A. Conduit, Pull Boxes, and Hooks: As specified in Section 27 05 28 - PATHWAYS FOR COMMUNICATIONS SYSTEMS; provide pull cords in all conduit.
- B. Cable Trays: As specified in Section 27 05 36 - CABLE TRAYS FOR COMMUNICATIONS SYSTEMS.
- C. Firestop Sleeves: As specified in Section 27 05 44 - SLEEVES AND SLEEVE SEALS FOR COMMUNICATIONS PATHWAYS AND CABLING

2.03 COPPER CABLE

- A. Manufacturers (End-to-End):

1. Panduit
 2. Or as pre-approved by engineer
- B. Copper Horizontal Cable:
1. Description: 100 ohm, balanced twisted pair cable complying with TIA-568.2 and listed and labeled as complying with UL 444.
 2. Cable Type - Voice and Work Area Outlet Data: TIA-568.2 Category 6 UTP (unshielded twisted pair); 23 AWG.
 - a. Color: Blue
 3. Cable Type - Wireless TIA-568.2 Category 6A UTP (unshielded twisted pair); 23 AWG.
 - a. Color: Blue
 4. Cable Type - Surveillance Cameras TIA-568.2 Category 6 UTP (unshielded twisted pair); 23 AWG.
 - a. Color: Blue
 5. Cable Capacity: 4-pair.
 6. Cable Applications: Use listed NFPA 70 Type CMP plenum cable unless otherwise indicated.
 7. End-to-End Solution Product(s):
 - a. Panduit; Twisted Pair Cables; TX6500 Series Category 6 U/UTP Cable
 - b. Or as pre-approved by engineer
- C. Copper Cable Terminations: Insulation displacement connection (IDC) type using appropriate tool; use screw connections only where specifically indicated.
- D. Jacks and Connectors: Modular RJ-45, non-keyed, terminated with 110-style insulation displacement connectors (IDC); high impact thermoplastic housing; suitable for and complying with same standard as specified horizontal cable; UL 1863 listed.
1. Performance: 500 mating cycles.
 2. Voice and Data Jacks: 8-position modular jack, color-coded for both T568A and T568B wiring configurations.
 3. End-to-End Product(s):
 - a. Panduit
 - b. Or as pre-approved by engineer
- E. Copper Patch Cords:
1. Description: Factory-fabricated 4-pair cable assemblies with 8-position modular connectors terminated at each end.
 2. Patch Cords for Patch Panels:
 - a. Quantity: One for each patch panel port.
 - b. Length: 7 feet.
 - c. Color: Coordinate specific color requirements with the design team prior to ordering.
 3. Patch Cords for Work Areas:
 - a. Quantity: One for each work area outlet port.
 - b. Length: 15 feet.
 - c. Color: Coordinate specific color requirements with the design team prior to ordering.
 4. Product(s):
 - a. Provide products from the approved cable/connectivity manufacturer. Products shall be compatible and compliant with the cable channel and meet or exceed the Category rating of the horizontal permanent link.

2.04 IDENTIFICATION PRODUCTS

- A. Comply with TIA-606.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

- A. Comply with latest editions and addenda of TIA-568 (SET) (cabling), TIA-569 (pathways), TIA-607 (grounding and bonding), BICSI N1, NFPA 70, and SYSTEM DESIGN as specified in PART 2.
- B. Comply with Communication Service Provider requirements.
- C. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 07 84 00.

3.02 INSTALLATION OF PATHWAYS

- A. Install pathways with the following minimum clearances:
 - 1. 48 inches from motors, generators, frequency converters, transformers, x-ray equipment, and uninterruptible power systems.
 - 2. 12 inches from power conduits and cables and panelboards.
 - 3. 5 inches from fluorescent and high frequency lighting fixtures.
 - 4. 6 inches from flues, hot water pipes, and steam pipes.
- B. Conduit, in Addition to Requirements of Section 27 05 28 - PATHWAYS FOR COMMUNICATIONS SYSTEMS:
 - 1. Arrange conduit to provide no more than the equivalent of two 90 degree bend(s) between pull points.
 - 2. Conduit Bends: Inside radius not less than 10 times conduit internal diameter.
 - 3. Arrange conduit to provide no more than 100 feet between pull points.
 - 4. Do not use conduit bodies.

3.03 INSTALLATION OF EQUIPMENT AND CABLING

- A. Cabling:
 - 1. Do not bend cable at radius less than manufacturer's recommended bend radius; for unshielded twisted pair use bend radius of not less than 4 times cable diameter.
 - 2. Do not over-cinch or crush cables.
 - 3. Do not exceed manufacturer's recommended cable pull tension.
 - 4. When installing in conduit, use only lubricants approved by cable manufacturer and do not chafe or damage outer jacket.
- B. Service Loops (Slack or Excess Length): Provide the following minimum extra length of cable, looped neatly:
 - 1. At Distribution Frames: 120 inches.
 - 2. At Outlets - Copper: 12 inches.
- C. Copper Cabling:
 - 1. Category 5e and Above: Maintain cable geometry; do not untwist more than 1/2 inch from point of termination.
 - 2. For 4-pair cables in conduit, do not exceed 25 pounds pull tension.
 - 3. Use T568B wiring configuration.
- D. Identification:
 - 1. Use wire and cable markers to identify cables at each end.

3.04 FIELD QUALITY CONTROL

- A. See Section 01 40 00 - Quality Requirements, for additional requirements.
- B. Comply with inspection and testing requirements of specified installation standards.
- C. Visual Inspection:
 - 1. Inspect cable jackets for certification markings.
 - 2. Inspect patch cords for complete labels.

END OF SECTION



END OF ADDENDUM #4