

## UNION COUNTY COURTHOUSE I.T. NETWORK CABLE REPLACEMENT

215 West Fifth Street Marysville, Ohio 43040

# THE UNION COUNTY COMMISSIONERS Steve Robinson, Dave Lawrence, Tom McCarthy

### **DOCUMENT INDEX:**

BASEMENT FLOOR PLAN FIRST FLOOR PLAN SECOND FLOOR PLAN ATTIC FLOOR PLAN

SCOPE OF WORK:
REPLACEMENT OF I.T. NETWORK CABELING IN ALL (3) BUILDING LEVELS

HISTORIC PRESERVATION - BUILDING IS LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES.

1. USE: COURTHOUSE . - B / A-3 NO CHANGE.

2. TYPE OF CONSTRUCTION: 2B. NO CHANGES TO THE EXISTING CONSTRUCTION.

A. EXISTING NUMBER OF STORIES - 3

B. EXISTING HEIGHT - APPROXIMATELY 60' +/- TO ROOF MEDIAN (TOWER NOT INCLUDED). 3. AREA OF WORK: APPROXIMATELY 1,000 SF.

4. OCCUPANCY LOAD: NO CHANGE TO EXISTING

A. FIRE STOPPING OF NEW PENETRATIONS IN FIRE RATED WALL ASSEMBLIES (CORRIDORS & MECHANICAL SPACES). 1-HR ASSEMBLIES / 1-HR PENETRATION ASSEMBLY PROVIDED.

B. FLOORS ARE 0-HR FIRE RATED PER 2B CONSTRUCTION, TABLE 601. PENETRATIONS TO BE FIRE

7. FIRE ALARM: NO CHANGE TO EXISTING 8. EMERGENCY EGRESS: NO CHANGE TO EXISTING

9. HVAC: NO NEW WORK.

10. ELECTRICAL NO NEW WORK.

A. I.T. NETWORK CABELING REPLACEMENT WITH UPGRADED CABLE.

11. PLUMBING: NO NEW WORK.

12. ANSI A117.1: EXISTING BUILDING MEETS ACCESSIBILITY REQUIREMENTS PER PREVIOUS UPGRADES TO EGRESS, ELEVATOR AND TOILET ROOMS. NEW MODIFICATIONS PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF THE CODE.

- (2024), AND ALL, FEDERAL, STATE AND LOCAL CODES AS APPLICABLE. PERMITS SHALL BE APPLIED FOR, OBTAINED AND PAID FOR BY EACH CONTRACTOR AS REQUIRED TO MEET FEDERAL, STATE AND LOCAL REQUIREMENTS.
- 2) ALL MATERIALS AND LABOR TO BE PROVIDED / PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND APPROVAL; AND OTHERWISE BEST PRACTICED STANDARDS OF THE PROFESSIONS AND SHALL BE DONE BY WORKERS WITH GENERALLY NO LESS THAN 10 YEARS EXPERIENCE IN THE GIVEN WORK.
- 3) IT IS THE RESPONSIBILITY OF THE CONTRACTOR(S) TO REVIEW THE EXISTING CONDITIONS PRIOR TO BIDDING. CONTRACTORS SHALL REVIEW ALL DRAWINGS AND SPECS IN THE SET FOR RELATED WORK AND SHALL PROVIDE AS REQUIRED.
- 4) ALL BUILDING DIMENSIONS, ELEVATIONS AND GENERAL REQUIREMENTS ARE TO BE VERIFIED PRIOR TO CONSTRUCTION OF RELATED WORK. IF DISCREPANCIES, OMISSIONS OR ERRORS EXIST IN THE DOCUMENTS; CONTRACTOR SHALL REPORT TO ARCHITECT TO RESOLVE PRIOR TO CONSTRUCTION OF RELATED WORK.
- 5) ALL WORK BETWEEN THE CONTRACTORS IS TO BE COORDINATED BY THE GENERAL
- CONTRACTOR PRIOR TO INSTALLATION OF WORK AND ORDERING OF MATERIALS. 6) ALL ADDITIONAL ITEMS OF HARDWARE AND MISCELLANEOUS ACCESSORIES FOR A COMPLETE INSTALLATION ARE TO BE PROVIDED AS A PART OF BASE BID.
- 7) ALL PRODUCTS AND MATERIALS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL, PRIOR TO
- 8) ALL OPENINGS AND HOLES ARE TO BE COORDINATED BY THE CONTRACTORS. DEMOLITION WORK ITEMS LEAVING HOLES, OPENINGS AND DISTURBED SURFACES ARE TO BE IN-FILLED /PATCHED AND REPAIRED TO MEET THE EXISTING CONDITIONS

LECKY **ARCHITECTS** 

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PATE 09-29-2025

#### **GENERAL NOTES**

- 1) THE INTENT OF THIS WORK IS TO REMOVE AND REPLACE ALL EXISTING NETWORKWORK SYSTEM
- COMPONENTS AND CABLING AND PROVIDE NEW IN THE SAME OR SIMILAR LOCATIONS.

   CABLE SHALL BE RUN IN EXISTING PATHWAYS AFTER REMOVAL OF SAME. THE CONTRACTOR HAS THE OPTING TO CHANGE PATHWAYS AS APPROVED BY THE COUNTY REPRESENTATIVE.
- EXISTING CONDUIT, RACEWAY, CONCEALED PATHWAYS AND BOXES SHALL REMAIN AND BE REUSED. THE CONTRACTOR SHALL PROVIDE NEW ROUTING, CONDUIT, BOXES AND RACEWAY AS REQUIRED WHERE EXISTING CONDITIONS CANNOT BE MAINTAINED.
- 2) GENERAL CONSTRUCTION WORK SHALL INCLUDE REMOVAL, REPAIRS AND/OR REPLACEMENT OF EXISTING CEILING SYSTEMS AND FINISHES AS REQUIRED TO ACCOMMODATE THE NEW WORK.
- ACOUSTIC CEILING SYSTEM (REFER TO SPECIFICATION 09510 FOR ADDITIONAL INFORMATION)
   Carefully remove, store and reinstall existing ceiling tile, grid systems, and related suspension wires and
- accessories as required to accommodate the new cable replacement work.
  Damaged tiles and grid systems and components shall be replaced with matching new. If the tiles cannot be replaced to match new, then the contractor shall provide the specified new tile, grid and accessories as
- required. This shall be done throughout the entire ceiling area or space for a continuous appearance.

   Components may be salvage from other areas of the building (ie: small offices or storage rooms) and used in larger areas (ie: corridors) and then the contractor will replace the smaller room(s) ceilings complete.
- B. PAINTING (REFER TO SPECIFICATION 09900 FOR ADDITIONAL INFORMATION)
  - Provide all labor, materials, tools, scaffolds, and other equipment as required for complete preparation and painting of all surfaces that are disturbed, damaged or blemished as a part of the new cable replacement work. No new painting work except for where disturbed is scheduled to be provided. The extent of painting shall be provided to install an undetectable finish replacement. Surfaces shall be painted from edge to edge and to the full extent if the paint cannot be match to an undetectable level of finish.
- C. SEALANTS (REFER TO SPECIFICATION 07900 FOR ADDITIONAL INFORMATION)
   Provide for miscellaneous sealant work for finishes disturbed in the scope of the new work.
   Provide for miscellaneous sealants for draft-stopping.
- 3) FIRESTOPPING (REFER TO SPECIFICATION 07840 FOR ADDITIONAL INFORMATION)

- All General and Electrical related fire stopping work is to be provided as a part of each contractor's contract work. Each contractor is responsible for their own cutting of openings and penetrations, and for the fire stopping of all fire rated assembly locations in accordance with UL listed details and products. Openings and penetrations in non-rated construction assemblies are to be draft stopped to prevent the passage of smoke.

New openings created from the removal of work shall be fire stopped at fire rated locations or draft stopped at non-fire rated locations by the contractor who's demolition created the opening. All existing openings in the area of work shall be fire stopped or draft stopped by the General Contractor as required to facilitate obtaining a final inspection by the building authority.

- Typical fire stopping locations are shown on the plans and include the corridor walls. They are noted as 1-hour typically unless otherwise indicated.
- Typical draft stopping locations shall include all other wall and floor penetrations other than those required to be fire stopped.
- 4) REFER TO REQUIREMENTS FOR SLEEVES AND FIRE STOPPING AND/OR DRAFT STOPPING OF SLEEVES AND PENETRATIONS ON SHEET 2.
- 5) SELECTIVE DEMOLITION including hazardous materials (REFER TO SPECIFICATION 02070 FOR ADDITIONAL INFORMATION)
- 6) DIMENSIONS / SCALE OF ROOMS ARE APPROXIMATE. CONTRACTOR SHALL MEASURE / REVIEW ALL WALL AND CEILING HEIGHT DIMENSIONS PRIOR TO BIDDING AND CONSTRUCTION.
- 7) BID ALLOWANCES AND UNIT PRICING (REFER TO SPECIFICATION 01020 FOR ADDITIONAL
- A. \$5,000 to be included for drilling new holes and openings into masonry walls greater than 12" in thickness. All new holes and openings less than 12" thickness shall be a part of the contractor's base bid costs. Existing and new holes & openings may be reused but shall be repaired and fire sealed and/or stopped as a per of the contractor's base bid costs.
- B. \$5,000 to be included for additional cabling, hardware and accessories work directed and approved by the County representative.

LEGEND

DATA WALL LOCATION (NOTE 1)

DATA WALL LOCATION SURFACE MTD RACEWAY (NOTE 2)

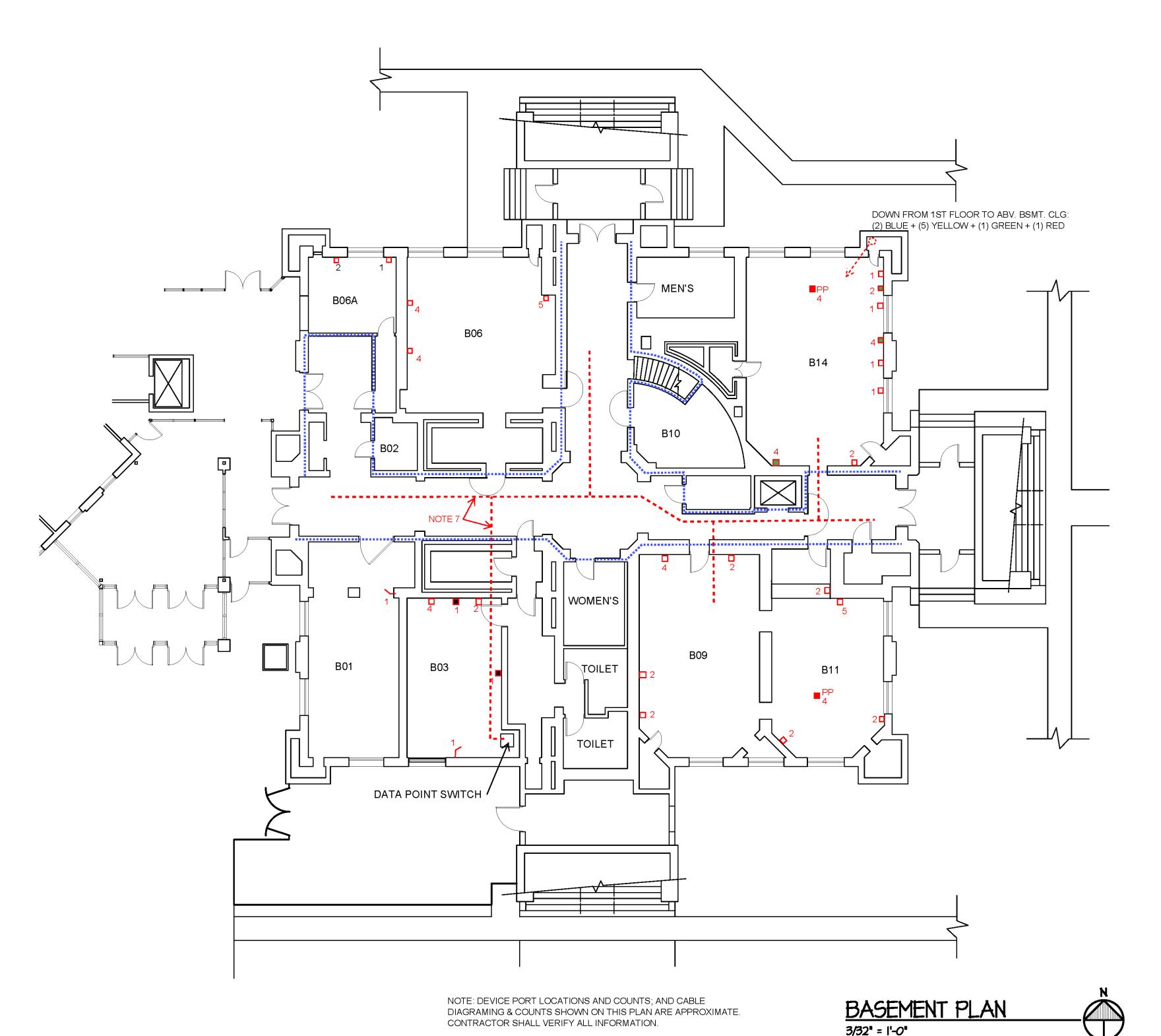
DATA LOCATION - CABLE ONLY, NO BOX. (NOTE 3)

"PP" DATA POWER POLE LOCATION (NOTE 4)

O DATA FLOOR LOCATION (NOTE 5)

A/V WALL LOCATION (NOTE 6)

1-HR. FIRE RATED WALLS REQUIRING 1-HR PENETRATION PROTECTION



REVISIONS BY

ouse – I.T. Network Cable Replacemer

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DATE 09-29-2025

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23.11 EET **1** 

#### **COMMUNICATIONS CABLE**

Based on GenSPEED (General Cable) 6 Category 6 Cable (23AWG), plenum rated FEP polyolefin insulation, color = green, separator divider, rip cord under jacket, jacket of plenum rated low smoke and flame retardant PVC.

#### Standards

- ANSI/TIAS 568.2 NEC/CEC Type CMR (IUL1666)
- NEC/CEC Type CMP (NFPA 262)
- UL 444
- RoHS Compliant Directive
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-0732
- ISO/IEC 11801 Ed. 2.0 (Class E)

#### **JACKS/COVER PLATES**

Based on Panduit Mini-Com TX6 Plus UTPOI jack modules for copper cabling systems, category 6

Provide Panduit Mini-Com jack module cover-plates with the number of jacks as required per the Drawings. Colors to be selected by the Owner and may vary from room-to-room.

#### PATCH PANELS

Based on Panduit unshielded patch panels consisting of a metal panel and molded snap-in faceplates in 24 or 48 port capacity, 23" racks, DP6 plus models DPA24688TGY or DPA48688TGY. Provide flat panels, pocket labels, flush mount front access, strained relief bars and necessary cable management hardware to result in a neat cable installation. Meets or exceeds the following

standards: • ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E as swept frequencies 1 to 250 MHz.

- ANSI/TIA-986-A
- IEC 60603-7
- UL 1863 aproved

Provide and install jumpers between patch panels and network switches or other equipment in the IT

Provide patch panels with the required number of cabling runs as noted on the Drawings and 30% extra space for future cables.

Provide multiple 4-post adjustable Panduit racks to handle the total design cable runs plus a rack capacity to handle 50% more cable runs as specified.

#### Rack information: Powder coated black

- 30" deep
- 23.25" wide
- Threaded mounting bolts Vertical tie-off panels
- 4-post shelves as needed
- Provide any additional cable support hardware, D-rings, ties, etc. for the installation of the cabling in a neat, professional and functional manner

Racks to meet UL 2416, EIA/ECA-3W-E, RoHS compliant

### **ALTERNATES**

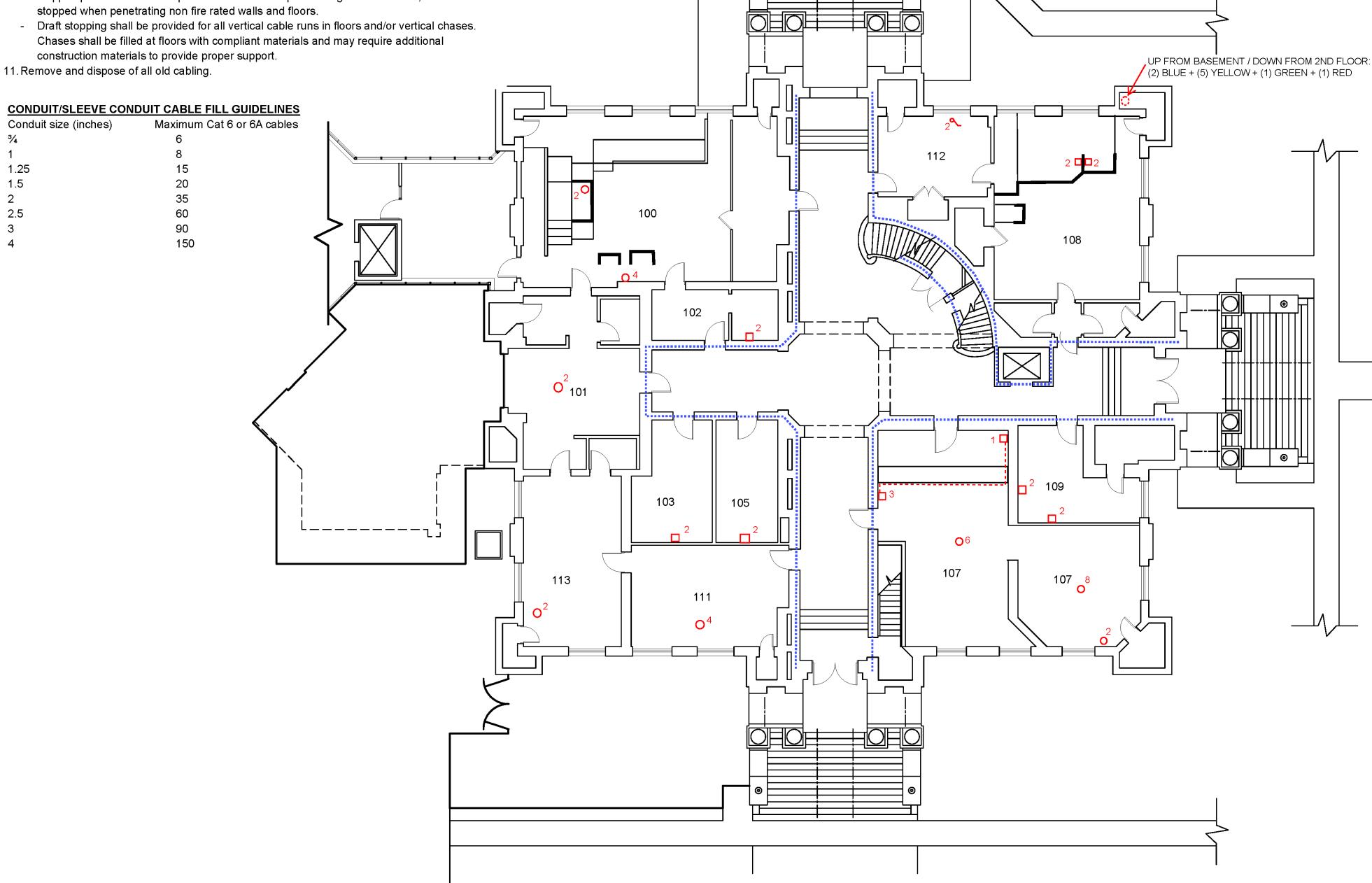
Alternate E1 to include the following (refer also to front end specifications, etc. ):

- 1. Cabling based on the same manufacturer (Panduit) but 10 UTP Category 6A Cable. Wiring shall meet the same standards as above and have ANEXT Protection of encapsulated isolation wrap. Cabling also applies to jumper cables at patch panels.
- 2. Jacks by the same manufacturer (Panduit) with class 6A wiring, Mini-com TX6A 10 Gig UTP jack modules with MaTriX Technology for copper cabling systems with MaTriX technology.
- Patch panels by the same manufacturer (Panduit) unshielded patch panels consisting of a metal panel and molded snap-in faceplates in 24 or 48 port capacity, 23" racks, DP6 plus models DPA24688TGY or DPA48688TGY. Provide flat panels, pocket labels, flush mount front access, strained relief bars and necessary cable management hardware to result in a neat cable installation. Meets or exceeds the following standards:
  - ANSI/TIA-568-.2-D.2 Category 6A and ISO 11801 Class EA swept up to 650 MHz for supporting 10GBASE-T transmission over twisted pair cabling systems as part of the TX6A 10Goig UTP copper cabling system.
  - ANSI/TIA-1096-A
  - IEC 60603-7 and IEC 60512-99-022
  - IEEE 802.3af/802.sat and 802.3bt type 3 and type 4. Supports Power over HDBaseT up to 100 watts.
  - UL 1863; CSA standard C22.2

### **CABLING GENERAL NOTES**

- 1. Run cabling in a neat manner above ceiling in J-hooks or O-rings.
- 2. Provide additional and /or replace non-compliant hardware as required to accommodate new
- 3. Installer may use existing J-hooks or O-rings as feasible.
- 4. Install cabling without excessive sagging.
- 5. Fish cables down in walls to new jacks. Replace as necessary any boxes or raceway drops to accommodate new work.
- 6. Install cable tags on the cable at the jack boxes and at the patch panels.
- 7. Install stick-on cable tags on the jack faceplates.
- 8. Test all cabling per the specifications and provide a test summary report for all cable runs.
- 9. Provide as-built cable wiring diagrams with cable labels/tags noted.
- 10. For all new cable runs, provide metal sleeves through fire rated walls. Provide PVC cable sleeves through non-fire rated walls and floors, and draft stop the penetrations per code.
- Firestop sleeves and wall penetrations through fire rated walls. (See floor plan for locations and fire stopping detail.)
- Existing sleeves may be reused if the sleeve material is compliant and size meets the cable fill guidelines. For existing sleeves through walls and floors, patch around the sleeves as necessary and fire stop at fire rated opening penetrations and draft non-fire rated penetration locations. Firestop new sleeves in fire rated walls.
- Sleeves shall not be required for 4 or fewer Cat-6 or CAT-6A cables but shall be fire stopped per UL and HILTE specs/standards when penetrating fire rated walls, and draft stopped when penetrating non fire rated walls and floors.
- Draft stopping shall be provided for all vertical cable runs in floors and/or vertical chases. Chases shall be filled at floors with compliant materials and may require additional

1.25 1.5



NOTE: DEVICE PORT LOCATIONS AND COUNTS; AND CABLE

CONTRACTOR SHALL VERIFY ALL INFORMATION.

DIAGRAMING & COUNTS SHOWN ON THIS PLAN ARE APPROXIMATE.

REVISIONS ■ DATA WALL LOCATION SURFACE MTD RACEWAY (NOTE 2) DATA LOCATION - CABLE ONLY, NO BOX. (NOTE 3)

LEGEND

☐ DATA WALL LOCATION (NOTE 1)

O DATA FLOOR LOCATION (NOTE 5)

A/V WALL LOCATION (NOTE 6)

PENETRATION PROTECTION

"PP" DATA POWER POLE LOCATION (NOTE 4)

1-HR. FIRE RATED WALLS REQUIRING 1-HR

FIRST FLOOR PLAN

3/32" = 1'-0"

d 3 e

Union Cour 215 West F Marysville,

7.4

Ohio

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### Underwriters Laboratories, Inc. **Hilti Firestop Systems**

3. Cables — Aggregate cross-sectional area of cable in sleeve to be max 45 percent of the cross-sectional area of the sleeve. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of copper conductor cables may be used:

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February 03, 2025

System No. W-J-3297

A. Max 7/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket. B. Max 25 pair No. 24 AWG telephone cable with PVC insulation and jacket.

B1. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables.

C. Type RG/U coaxial cable with polyethylene (PE) insulation and PVC jacket having a max outside diameter of 1/2 in. (13 mm).

C1. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing. D. Multiple fiber optical communication cable jacketed with PVC and having a max OD of 5/8 in. (16 mm).

E. Through Penetrating Products\*— Max three copper conductor No. 8 AWG .Metal-Clad Cable+.

AFC CABLE SYSTEMS INC

F. Max 3/C (with ground) (or smaller) No. 8 AWG copper conductor cable with PVC insulation and jacketing.

G. Max 3/4 in. (19 mm) diam copper ground cable with or without a PVC jacket. H. Fire Resistive Cables\* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall

be maintained between MI cables and any other types of cable. I. Max 4/C with ground 300 kcmil (or smaller) aluminum SER cable with PVC insulation and jacket.

J. Through Penetrating Product\* - Any cables, Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating

Products category. K. Maximum 3/C No. 8 AWG metal-clad cable.

L. Maximum 5/8 diam fiber-optic cable with PVC jacket. See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.

4. Fill, Void or Cavity Material\*— Sealant — Min 5/8 in. (16 mm) of fill material applied within the annulus around the sleeve, and flush with each end of the sleeve that is not continuous beyond wall surface. At the point contact location between sleeve and wall a min 1/2 in. (13 mm) diam bead of

fill material shall be applied at the sleeve to wall interface on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC —FS-ONE MAX Intumescent Sealant 5. Packing Material — (Optional, Not Shown) — Mineral wool forming material, polyurethane backer rod or polyethylene backer rod may be used as a backer for the fill material (Item 4). When used, it shall be firmly packed into annular space within the sleeve as a permanent form and recessed from end of sleeve to accommodate the required thickness of fill material.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),

+Bearing the UL Listing Mark



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LEGEND

☐ DATA WALL LOCATION (NOTE 1)

■ DATA WALL LOCATION SURFACE MTD RACEWAY (NOTE 2)

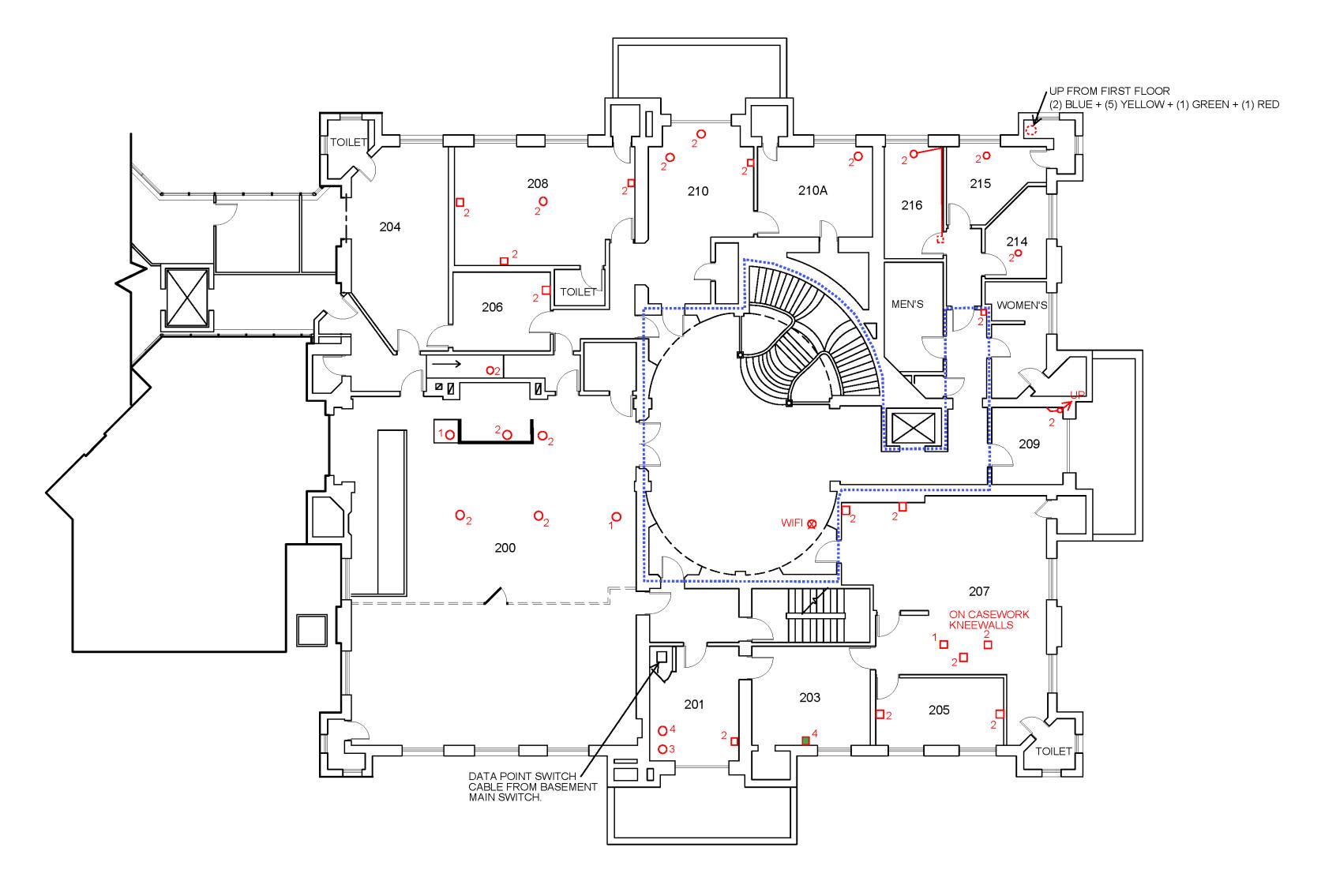
Lack Data Location - Cable Only, NO Box. (NOTE 3)

"PP" DATA POWER POLE LOCATION (NOTE 4)

O DATA FLOOR LOCATION (NOTE 5)

A/V WALL LOCATION (NOTE 6)

1-HR. FIRE RATED WALLS REQUIRING 1-HR PENETRATION PROTECTION



NOTE: DEVICE PORT LOCATIONS AND COUNTS; AND CABLE DIAGRAMING & COUNTS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL INFORMATION.



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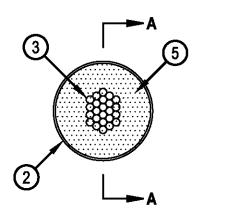
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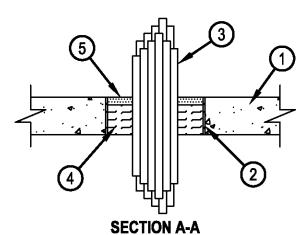
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1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 2400 kg/m3) concrete floor or min 3 in. (76 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks\*. Max diam of opening is 6 in. (152 mm).

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Sleeve — (Optional) — Nom 6 in. (152 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max 3 in. (76 mm) above the floor or both surfaces of the wall. If the steel sleeve extends above the floor or both surfaces of the wall, the T Rating of the firestop system is 0 Hr.

3. Cables — Aggregate cross-sectional area of cables in opening to be min 25 percent to max 45 percent of the aggregate cross-sectional area of the opening. Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of metallic conductor or fiber optic cable may be used:

A. Max 500 kcmil single copper connector power cable with thermoplastic insulation and polyvinyl chloride (PVC) jacket. When single copper conductor power cable is used, T, FT and FTH Rating is 0 hr.

B. Max 350 kcmil single conductor power cables with either aluminum or copper conductors and cross-linked polyethylene (XPLE) insulation. When single aluminum conductor power cable is used, T Rating is 0 hr. When single copper conductor power cable is used, T, FT and FTH Rating is 1/2 hr.

C. Max 300 pair No. 24 AWG copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket material. When telecommunication cable is used, T, FT and FTH Rating is 0 hr.

D. Max three copper connector No. 6 AWG cable with polyvinyl chloride (PVC) insulation and jacket material. When multi-connector power cable is used, T Rating is 0 hr.

E. Max 7/C copper conductor No. 12 AWG multiconductor power and control cables with PVC or cross-linked polyethylene (XLPE) insulation and PVC jacket. When multiconductor power and control cable is used, T, FT and FTH Rating is 3/4 hr.

F. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in. When fiber optic cable is used, T, FT and FTH Rating is 3/4 hr.

G. Max 3/C copper conductor No. 12 AWG with Bare aluminum ground, polyvinyl chloride (PVC) insulated steel, Metal-clad cable+. When MC cable is used, T, FT and FTH Rating is 0 hr. AFC CABLE SYSTEMS INC



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H. Max 3/C with ground 2/0 AWG copper conductor SER cable with cross-linked polyethylene (XLPE) insulation and polyvinyl chloride (PVC) jacket. When SER cable is used, T, FT and FTH Rating is 0 hr. I. Max RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diameter of ½ in. When

coaxial cable is used, T Rating is 0 hr. J. Fire Resistive Cables\* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall

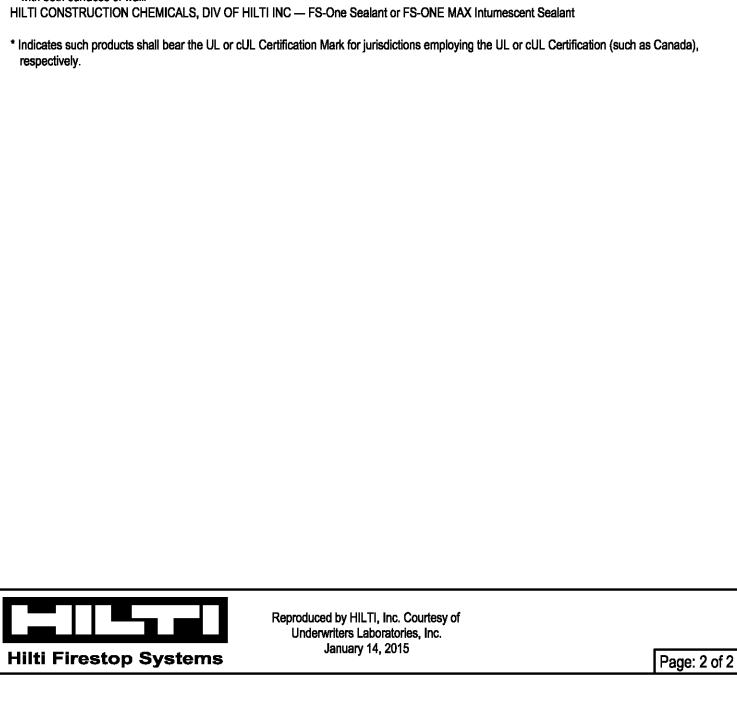
be maintained between MI cables and any other type of cable. When Fire Resistive Cables \*are used, T, FT and FTH Rating is 0 hr. K. Through Penetrating Product\* — Any Cables, Metal-Clad Cable+ or Armored Cable+ currently Classified under the Through Penetrating Products category.

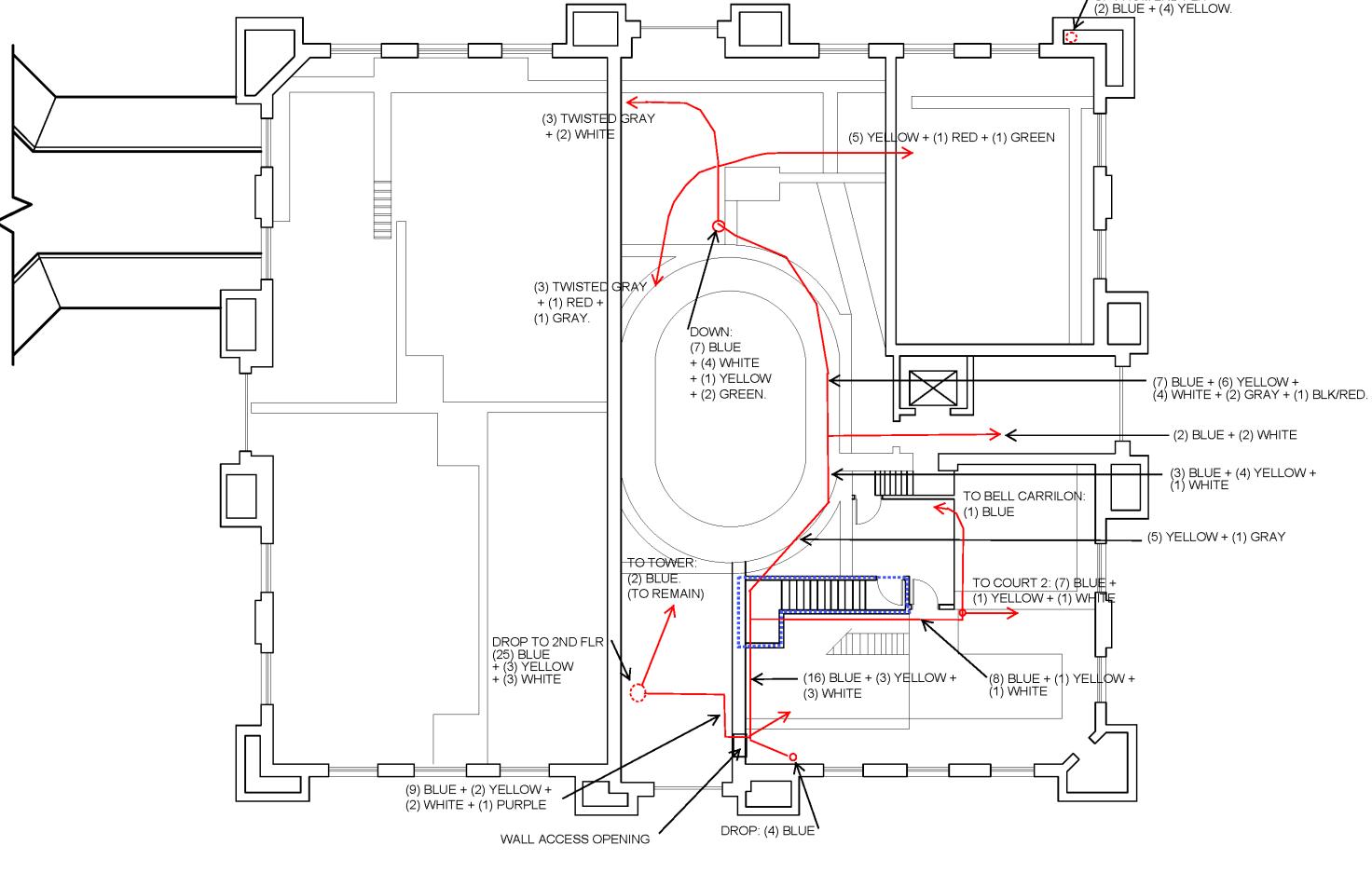
See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.

4. Packing Material — Min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed 1/2 in. (13 mm) from top surface of floor or from both surfaces of wall to accommodate the fill material. If the

steel sleeve (Item 2) extends above the top of the floor, the packing material shall be flush with the bottom surface of the floor. 5. Fill, Void or Cavity Material\* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada),





NOTE: CABLE DIAGRAMING AND CABLE COUNTS SHOWN ON THIS PLAN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL INFORMATION.

CABLE COLOR LEGEND: BLUE - I.T. YELLOW - SECURITY WHITE - SECURITY / CAMERAS PURPLE - HVAC GRAY - HVAC

UP FROM 2ND FLR

1-HR. FIRE RATED WALLS REQUIRING 1-HR PENETRATION PROTECTION



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