ETSU BUILDING 2 RENOVATION
EAST TENNESSEE STATE UNIVERSITY
BUILDING #2 DOGWOOD AVE
VA MEDICAL CENTER CAMPUS
MOUNTAIN HOME, TN 37684

PROJECT SCOPE
Description of project scope is to renovate this area to meet the codes and standards required for a multi-purpose academic building.

CONTACT INFORMATION

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OWNER
EAST TENNESSEE STATE UNIVERSITY

SITE MAP

PROJECT TEAM

DESIGN DEVELOPMENT
02.25.2021

BUILDING DATA
EXISTING BUILDING ZONING:

ZONING JURISDICTION:

ZONING

SEE IBC TABLE 721.1(2), ITEM 1

COLUMNS (N/A):

ROOF

FLOOR

RATED ASSEMBLIES

HORIZONTAL EXITS:

SMOKE BARRIERS:

"HAZARDOUS" SPACE PROTECTION:

SMOKE PARTITIONS:

EXTERIOR BEARING W ALL:

FLOOR

BEAMS:

COLUMNS:

FIRE PROTECTION

NFPA CONSTRUCTION TYPE:

NFPA OCCUPANCY:

IBC CONSTRUCTION TYPE:

IBC OCCUPANCY:

BUILDING CLASSIFICATIONS

LIFE SAFETY CODE (NFPA 101)

INTERNATIONAL FIRE CODE

INTERNATIONAL PLUMBING CODE

INTERNATIONAL MECHANICAL CODE

INTERNATIONAL GAS CODE

INTERNATIONAL ENERGY CONSERVATION CODE

INTERNATIONAL BUILDING CODE

SOLDIERS", A U.S. NATIONAL HISTORIC LANDMARK
ROOMS. THIS BUILDING IS LOCATED ON THE CAMPUS OF THE "MOUNTAIN HOME FOR DISABLED VOLUNTEER RANCH HOME FOR DISABLED VOLUNTEER"

RENOVATION OF LEVEL 1 OF BUILDING NO. 2 OF THE JAMES H. QUILLEN COLLEGE OF MEDICINE AT EAST TENNESSEE STATE UNIVERSITY. SPACES INCLUDE CLASSROOMS, FACULTY OFFICES, LABORATORY SPACE, AND STUDY/MEETING ROOMS.

TOTAL BUILDING AREA (3 STORIES PLUS BASEMENT) APPROX 55,000 SF

LEVEL 1

BUILDING HEIGHT (FEET) 75

BUILDING DATA
BUILDING HEIGHT (STORIES) 4

NOTE: SEE IBC TABLE 503; SECTION S504.2; AND SECTION 506.3

TOTAL BUILDING AREA (3 STORIES PLUS BASEMENT) APPROX 228,000 SF

ACTUAL HEIGHTS
ALLOWABLE HEIGHTS AND AREAS

TOTAL BUILDING AREA (3 STORIES PLUS BASEMENT) APPROX 55,000 SF

LEVEL 1

BUILDING DATA
BUILDING HEIGHT (FEET) 75

BUILDING DATA
BUILDING HEIGHT (STORIES) 4

NOTE: SEE IBC TABLE 503; SECTION S504.2; AND SECTION 506.3

TOTAL BUILDING AREA (3 STORIES PLUS BASEMENT) APPROX 228,000 SF
STRUCTURAL STEEL NOTES:

1. Structural Steel must be in accordance with the American Institute of Steel Construction (AISC) and the American Society of Civil Engineers (ASCE) specifications.

2. Structural Steel must comply with the following specifications:
   - Structural Steel Shapes, Plates and Bars:
   - High Strength Bolts - ASTM A325 (Typical UN)
   - Common Steel Bolts, and must be 1/2 inch diameter, unless otherwise noted.

3. Installation of Structural Steel:
   - Anchors and Proximity of Anchors to Edge of Concrete:
   - Install anchors per the manufacturer instructions, as included in the anchor packaging.
   - The Contractor must verify the requirements and modifications to anchor diameter, spacing, and embedment.

4. Engineering:
   - The structural engineer must ensure compliance with the design and construction requirements.

5. Records:
   - The documents that are released must be brought to the attention of the architect.
   - The architect must verify the requirements and modifications to anchor diameter, spacing, and embedment.

6. Approval:
   - The anchor manufacturing must be approved by the structural engineer.
   - All substitutions must be approved by the architect.

7. Special Inspections:
   - Special inspections must be performed in accordance with the requirements and modifications to anchor diameter, spacing, and embedment.

ROUGH CARPENTRY NOTES:

1. Rough Carpentry must be in accordance with the American Wood Council (AWC) "Standard Specifications for Wood Construction."
FRAMING PLAN NOTES

1. REFER TO FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

2. TOP OF FINISHED FLOOR ELEVATION SHALL BE:
   - FIRST FLOOR ELEVATION = +0'-0"
   - SECOND FLOOR ELEVATION = +12'-2"

3. DESIGN UNDERSTANDING IS THAT WOOD FLOOR JOISTS SPAN FROM EXTERIOR WALLS TO WOOD GIRDERS ALONG COLUMN LINE F. WOOD GIRDERS SIMPLY SPAN FROM POST TO POST AND ARE NOT CONTINUOUS OVER ANY GIVEN POST. CONTRACTOR TO VERIFY THESE ASSUMPTIONS AND REPORT THEM TO THE ARCHITECT AND ENGINEER FOR ANY REQUIRED RESOLUTION PRIOR TO FABRICATING NEW STRUCTURAL STEEL OR STARTING SIGNIFICANT STRUCTURAL DEMOLITION IN THE AREA OF THE NEW STEEL FRAMING.

KEY NOTES

01. EXISTING 3"x12" (TRUE) FLOOR JOISTS AT 14" ON CENTER.

02. EXISTING 10"x16" (TRUE) GRIDER SUPPORTING FLOOR JOISTS.

03. EXISTING 6" DIAMETER CAST IRON COLUMN SUPPORTING GIRDERS.

04. CONTRACTOR SHALL VERIFY A MINIMUM WALL THICKNESS OF 3/8" BEFORE ATTACHING ANY NEW STEEL FRAMING TO THE EXISTING COLUMN.

05. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DIMENSIONS.

06. REFER TO ARCHITECTURAL DRAWINGS FOR BOTTOM OF LEVEL ELEVATION.

07. REMOVE EXISTING FLOOR DECK AND REPLACE WITH BAR GRATING BEARING ATOP EXISTING FLOOR JOISTS, SHIM AS REQUIRED. DO NOT NOTCH OR CUT EXISTING FLOOR JOISTS. PLACE NEW TROUGHS BETWEEN EXISTING FLOOR JOISTS REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND EXTENDS.

08. REFER TYPICAL STEEL MASONRY LINTEL DETAIL. REFER TO ARCHITECTURE DRAWINGS FOR BOTTOM OF LEVEL ELEVATION.

09. REFER TYPICAL STEEL MASONRY LINTEL DETAIL. REFER TO ARCHITECTURE DRAWINGS FOR BOTTOM OF LEVEL ELEVATION.

10. REFER TO FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
**KEY NOTES**

1. OCCUPATIONAL THERAPY SWINGS SUSPENDED FROM NEW LVL BEAMS. MAXIMUM WORKING LOAD OF 750 LBS. REFER TO ARCHITECTURE PLANS FOR LOCATION.

2. REFER TO SWING MANUFACTURER FOR ATTACHMENT TO LVL BEAMS.
EXISTING WALL TO REMAIN
EXISTING WALL TO BE REMOVED IN ITS ENTIRETY
PORTION OF EXISTING WALL TO BE DEMOLISHED TO RECEIVE NEW WORK (REFER TO NEW FLOOR PLANS)
EXISTING DOOR TO REMAIN
EXISTING DOOR AND HARDWARE TO BE REMOVED. FRAME TO REMAIN IN PLACE. REFER TO NEW WORK FLOOR PLANS FOR DOOR TAGS.
EXISTING WALL, DOOR, FRAME AND HARDWARE TO BE REMOVED IN THEIR ENTIRETY
EXISTING PLUMBING FIXTURES TO BE REMOVED

DENOTES NEW OPENING IN EXISTING FLOOR SLAB (REFER TO STRUCTURAL)

1. ALL ITEMS SALVAGED FOR OWNER SHALL BE PRESENTED TO THE OWNER FOR THE FIRST RIGHT OF REFUSAL. IF OWNER CHOOSES TO RETAIN ITEMS, THE CONTRACTOR WILL MOVE ITEMS TO THE LOCATION OF THE OWNERS CHOOSING ON SITE. IF OWNER CHOOSES TO NOT RETAIN ITEMS, CONTRACTOR IS TO DISPOSE OF ITEMS LEGALLY OFF SITE.

2. ALL ITEMS SALVAGED FOR REINSTALLATION SHALL BE PROTECTED FROM DAMAGE AND STORED ON SITE IN A SECURE LOCATION. ITEMS TO BE REINSTALLED WILL BE CLEANED PRIOR TO INSTALLATION. IF ITEM IS DAMAGED IN ACT OF REMOVAL FROM ITS CURRENT LOCATION, NOTIFY OWNER AND ARCHITECT IMMEDIATELY.

3. REMOVE BASEBOARD AND DOOR TRIM. WINDOW TRIM TO REMAIN, U.O.N.
1. Plan dimensions shown are face of framing member, face of masonry, face of existing wall, and to centerline of columns, exclusive of framing blocks.

2. All interior dimensions are face of partition assembly as defined by the partition schedule and is exclusive of any applied finish.

3. All furniture and lab equipment shown gray on plans to be by owner.

4. All dimensions to be field verified prior to installation of equipment/sleek/case work.

5. Any conflicting information between the architectural drawings and the civil, landscape, structural, fire protection, plumbing, HVAC, audio visual or electrical drawings shall be noted in writing to the architect for review and must be clarified prior to commencing the construction in question.

6. Provide wood blocking in metal stud partitions for mounting fixtures, millwork, shelving, hardware, door stops and other equipment.

7. Verify and coordinate penetrations through floor slabs, roof deck and partitions with PM&E and FP drawings.

8. Verify and coordinate finish floor elevations with civil and structural prior to commencing construction. Notify architect in writing before construction of any conflicts.

9. Refer to sheet AE601 for door schedule. Refer to sheet AE611-AE612 for curtain wall, louver, and storefront elevations.

10. All furniture shown is for reference only and is N.I.C., U.O.N.
ARCHITECT FOR REVIEW AND MUST BE CLARIFIED PRIOR TO COMMENCING THE CONSTRUCTION IN QUESTION.

ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO INSTALLATION OF EQUIPMENT / SHELVING / CASEWORK.

ALL FURNITURE AND LAB EQUIPMENT SHOWN GRAY ON PLANS TO BE OWNED

ALL INTERIOR DIMENSIONS ARE TO FACE OF PARTITION AS DEFINED BY THE PARTITION SCHEDULE AND IS EXCLUSIVE OF ANY APPLIED FINISH.

CENTER LINE OF COLUMNS, EXCLUSIVE OF INTERIOR WALLS.

PLAN DIMENSIONS SHOWN ARE TO FACE OF FRAMING MEMBER, FACE OF MASONRY, FACE OF EXISTING WALL, AND TO FACE OF COLUMN, EXCLUSIVE OF MEMBER WALLS.

1. ALL PORTIONS SHOWN OF IRONWORK ARE TO BE DRAWN TO SCALE AND SHOWN ON SEPARATE SHEETS.
2. ALL INTERIOR DIMENSIONS AND PLAN DIMENSIONS ARE TO FACE OF PARTITION AS DEFINED BY THE PARTITION SCHEDULE.
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CENTER LINE OF COLUMNS, EXCLUSIVE OF INTERIOR WALLS.
A. Exxx FOR CEILING DETAILS.

2. ALL STRUCTURE, MEP, FP

3. 5. LOCATED IN THE CENTER OF THE TILE.

4. GENERAL CONTRACTOR TO INSTALL ELECTRICAL EQUIPMENT, CONDUITS, etc. ARCHITECT TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.

5. GENERAL CONTRACTOR TO COORDINATE ALL SOFFIT/BULKHEAD FRAMING WITH FINAL LIGHTING FIXTURES & HVAC DIFFUSER LOCATIONS.

6. HVAC & LIGHTING FIXTURES SHOWN ARE FOR GRAPHICAL PURPOSES ONLY. GC TO REFER TO PME DRAWINGS AND SPRINKLER PIPING SHOP DRAWINGS FOR RCP LEGEND.

7. CONTROL JOINTS SHOULD BE LOCATED IN GWB SOFFIT EVERY 30'.
ALL PARTITIONS ARE TYPE S4N UNLESS OTHERWISE NOTED. REFER TO GC TO PROVIDE & INSTALL ALL BLOCKING IN WALLS.

TOILET ROOMS AND LOCKERS

TOILET ROOMS

COPY ROOM

DISPLAY CASE WALL

GENERAL NOTES

1. SEE SPECIFICATION FOR SPECIALTY MODELS & MOUNTING HINTS FOR TYPICAL MOUNTING HEIGHTS & CLEARANCES.
2. ALL PARTITIONS ARE TYPE S4N UNLESS OTHERWISE NOTED. REFER TO GC TO PROVIDE & INSTALL ALL BLOCKING IN WALLS.
3. REFER TO PLUMBING DRAWINGS FOR LOCATION OF HOSE BIBS.
4. REFER TO DRAWINGS FOR ALL MOUNTING HEIGHTS & CLEARANCES IN TOILET ROOMS.
5. SET TO PROVIDE & INSTALL ALL BLOCKING REQUIRED.

KEY NOTES

1. MOBILE BABY CHANGING STATION
2. BABY CHANGING STATION
3. SANITARY NAPKIN DISPENSER
4. SURFACE MOUNTED SOAP DISPENSER
5. ELECTRIC HAND DRYER
6. SURFACE MOUNTED TOILET PAPER HOLDER (SIDE)
7. SURFACE MOUNTED TOILET PAPER HOLDER (STACKED)
8. SURFACE MOUNTED TOILET PAPER HOLDER (SINGLE)
9. FLOOR MOUNTED WATER CLOSET
10. WALL MOUNTED T.V., OFCI.
11. WALL MOUNTED TV, OFCI.
12. PRINTER/COPIER, NIC
13. CUSTOM WOOD DISPLAY CASE
14. BUILT-IN MAILBOXES, P-LAM ON 3/4" PLYWOOD
15. BUILT-IN CASEWORK
16. DISPLAY CASE WALL
17. WOOD SLAT WALL TO MATCH ADJ. DISPLAY CASE
18. PHENOLIC LOCKERS
20. TOILET ROOMS AND LOCKERS
21. DISPLAY CASE WALL

SPECIALTIES AND PLUMBING FIXTURES - MOUNTING HEIGHTS AND CLEARANCES
OT LECT. LAB 1 - 129

LOBBY -

WAITING AREA

OT LECT. LAB 1 - 129

OT LECT. LAB 2 - 130

RECEPT WINDOW WALL

STUDENT LOUNGE

COPY ROOM 102

MAIL BOX WALL

DISPLAY WALL

DISPLAY WALL

DISPLAY WALL

DISPLAY WALL
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NOTES:
1. DESIGN BASIS: POWERS ES-150 OR APPROVED EQUAL.
2. DESIGN BASIS: POWERS LF480-01 OR APPROVED EQUAL.
3. DESIGN BASIS: MANUFACTURER: WILKERSON CORPORATION, MODEL: R90-08-AGA0 OR APPROVED.
4. DESIGN BASIS: MANUFACTURER: INGERSOLL RAND, MODEL: TS4N5 OR APPROVED EQUAL.

PLUMBING FIXTURE SCHEDULE

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PLUMBING VALUES SYMBOLS

CHECK VALVE

BALL VALVE

BALANCING VALVES

VALUE ON REPAIR

PLUMBING SYMBOLS

DOMESTIC COOL WATER SUPPLY

DOMESTIC HOT WATER SUPPLY

INDIRECT DRAIN

VENT DRAIN

SANITARY SEWER

SANITARY SEWER, BESIDE FLOOR

PLUMBING ABBREVIATIONS

AIR

ARCHITECT

AC

ARCHITECTURAL ENGINEER

AP

AREA PLANNER

AR

ARCHITECTURAL ROLLS

AS

ARCHITECTURAL SERVICES

AT

ARCHITECTURAL TECHNIQUES

AV

ARCHITECTURAL VENTILATION

BC

BUILDING CODE

BD

BUILDING DRAIN

BE

BUILDING ENTRANCE

BG

BUILDING G: BUILDING G

BDW

BUILDING DRAIN W: BUILDING DRAIN W

BDU

BUILDING DRAIN U: BUILDING DRAIN U

BDV

BUILDING DRAIN V: BUILDING DRAIN V

BFD

BUILDING FLOOR DROP

BHD

BUILDING HUB DRAIN

BH

BUILDING HUB: BUILDING HUB

BHR

BUILDING HUB RISER: BUILDING HUB RISER

BF

BLOWER FAN

BFP

BLOWER FAN PRESSURE

BFR

BLOWER FAN RISER

BFS

BLOWER FAN STARTER

BFT

BLOWER FAN TERMINAL

BFU

BLOWER FAN UNION

BFU

BLOWER FAN UNION

BFV

BLOWER FAN VALVE

BGC

BLOWER GROUP: BLOWER GROUP

BGW

BLOWER GROUP W: BLOWER GROUP W

BGX

BLOWER GROUP X: BLOWER GROUP X

BGY

BLOWER GROUP Y: BLOWER GROUP Y

BID

BUILDING DRAIN: BUILDING DRAIN

BIR

BUILDING RISER: BUILDING RISER

BIS

BUILDING ISOLATION: BUILDING ISOLATION

BIZ

BUILDING ISOLATOR: BUILDING ISOLATOR

BMI

BUILDING MAIN

BN

BUILDING PUMP: BUILDING PUMP

BNT

BUILDING PUMP TOWER: BUILDING PUMP TOWER

BP

BUILDING PUMP: BUILDING PUMP

BPE

BUILDING PUMP E: BUILDING PUMP E

BPS

BUILDING PUMP S: BUILDING PUMP S

BPT

BUILDING PUMP TERMINAL: BUILDING PUMP TERMINAL

BPV

BUILDING PUMP VALVE: BUILDING PUMP VALVE

BPU

BUILDING PUMP UNION: BUILDING PUMP UNION

BQ

BUILDING DRAIN Q: BUILDING DRAIN Q

BR

BUILDING DRAIN R: BUILDING DRAIN R

BS

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BT

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BU

BUILDING DRAIN U: BUILDING DRAIN U

BV

BUILDING DRAIN V: BUILDING DRAIN V

BWP

BUILDING WATER PIPE

BXL

BUILDING EXTERIOR LIMIT: BUILDING EXTERIOR LIMIT

BY

BUILDING DRAIN Y: BUILDING DRAIN Y

C

COST

CE

CREDIT

CT

CUTTING TRIANGLE

CWP

COLD WATER PIPE

DC

DEFENSE CONTRACT

DCO

DEFENSE CONTRACT OFFICE

DE

DEPARTMENT

DS

DRAINAGE SYSTEM

DT

DRAINAGE TRENCH

E

ENGINEER

EC

ENGINEERING CONTRACT

ED

ENGINEERING DRAIN

EN

ENGINEERING NUMBER

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ENGINEERING PUMP

ET

ENGINEERING TRENCH

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ENGINEERING VALVE

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FG

FACE G: FACE G

FI

FACE I: FACE I

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FIP

FIRE PROOFING

FIZ

FACE INITIAL: FACE INITIAL

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FACE NUMBER: FACE NUMBER

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FACE PUMP: FACE PUMP

PT

FLOOR PUMP TERMINAL

PV

FLOOR PUMP VALVE

FU

FLOOR PUMP UNION: FLOOR PUMP UNION

FV

FLOOR VALVE

FY

FLOOR DRAIN Y: FLOOR DRAIN Y

G

GROUND

GC

GROUND CIRCUIT

GCW

GROUND CIRCUIT W: GROUND CIRCUIT W

GCK

GROUND CIRCUIT K: GROUND CIRCUIT K

GCM

GROUND CIRCUIT M: GROUND CIRCUIT M

GCP

GROUND CIRCUIT P: GROUND CIRCUIT P

GCQ

GROUND CIRCUIT Q: GROUND CIRCUIT Q

GCV

GROUND CIRCUIT V: GROUND CIRCUIT V

GCX

GROUND CIRCUIT X: GROUND CIRCUIT X

GCS

GROUND CIRCUIT S: GROUND CIRCUIT S

GCV

GROUND CIRCUIT V: GROUND CIRCUIT V

GCY

GROUND CIRCUIT Y: GROUND CIRCUIT Y

GDP

GROUND DEW POINT

GDL

GROUND DRAIN L: GROUND DRAIN L

GDM

GROUND DRAIN M: GROUND DRAIN M

GDS

GROUND DRAIN S: GROUND DRAIN S

GDU

GROUND DRAIN UNION: GROUND DRAIN UNION

GDV

GROUND DRAIN VALVE

GDS

GROUND DRAIN UNION: GROUND DRAIN UNION

GDS

GROUND DRAIN UNION: GROUND DRAIN UNION

GDV

GROUND DRAIN VALVE

GDW

GROUND DRAIN W: GROUND DRAIN W

GDX

GROUND DRAIN X: GROUND DRAIN X

GDY

GROUND DRAIN Y: GROUND DRAIN Y

GDS

GROUND DRAIN UNION: GROUND DRAIN UNION

GDS

GROUND DRAIN UNION: GROUND DRAIN UNION

GDV

GROUND DRAIN VALVE

GDS

GROUND DRAIN UNION: GROUND DRAIN UNION

GDS

GROUND DRAIN UNION: GROUND DRAIN UNION

GDV

GROUND DRAIN VALVE

GDW

GROUND DRAIN W: GROUND DRAIN W

GDX

GROUND DRAIN X: GROUND DRAIN X

GDY

GROUND DRAIN Y: GROUND DRAIN Y

GDS

GROUND DRAIN UNION: GROUND DRAIN UNION

GDS

GROUND DRAIN UNION: GROUND DRAIN UNION

GDV

GROUND DRAIN VALVE

GDS

GROUND DRAIN UNION: GROUND DRAIN UNION

GDS

GROUND DRAIN UNION: GROUND DRAIN UNION

GDV
A. All existing plumbing fixtures and all associated piping and support structures in the remodeled area shall remain unless otherwise noted.

B. Demolition shall include all fittings, valves, pipes, supports, and hangers of piping being removed.

C. Abandoned or unused piping and/or risers shall be removed.

D. Prior to performing any work or purchasing any materials, the contractor shall verify the location of existing plumbing piping.

E. Contractor shall repair all penetrations and holes in existing walls and ceilings caused by the demolition.

F. Contract shall remove all penetrations and holes in existing walls and ceilings caused by the demolition and repair any damage to the structure or finish materials.

G. During the demolition of existing mechanical systems, the contractor shall provide a means to drain water from the mechanical system.

H. Prior to performing any work or purchasing any materials, the contractor shall verify the location of existing mechanical systems.

I. Contractor shall repair any damage to the structure or finish materials caused by the demolition of existing mechanical systems.

J. The contractor shall provide a means to drain water from the mechanical system during the demolition process.

K. All existing mechanical systems shall be removed to the limits of demolition.

L. Prior to performing any work or purchasing any materials, the contractor shall verify the location of existing electrical systems.

M. Contractor shall repair any damage to the structure or finish materials caused by the demolition of existing electrical systems.

N. The contractor shall provide a means to drain water from the electrical system during the demolition process.

O. All existing electrical systems shall be removed to the limits of demolition.

P. Prior to performing any work or purchasing any materials, the contractor shall verify the location of existing HVAC systems.

Q. Contractor shall repair any damage to the structure or finish materials caused by the demolition of existing HVAC systems.

R. The contractor shall provide a means to drain water from the HVAC system during the demolition process.

S. All existing HVAC systems shall be removed to the limits of demolition.
A. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT TO BE SCALDED, AND SHOULD NOT BE USED AS CONSTRUCTION, FIELD, OR PLUMBING PERMIT DRAWINGS. FIELD VERIFY ALL DIMENSIONS, PIPE SIZES, AND INVERTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND LOCATIONS OF ALL PLUMBING FIXTURES AND EQUIPMENT.

B. COORDINATE PIPE ROUTING WITH DUCT ROUTING, EQUIPMENT LOCATIONS, ELECTRICAL INSTALLATIONS, AND BUILDING STRUCTURAL MEMBERS. OFFSET PIPING WHERE REQUIRED TO AVOID CONFLICTS. AVOID PENETRATING ANY MAIN STRUCTURAL BEAM. NOTIFY COR OF ANY CONFLICTS.

C. CONTRACTOR SHALL REMOVE AND REPAIR PORTIONS OF FLOORS, CEILINGS AND/OR SLABS AFFECTED BY PLUMBING MODIFICATIONS. REPAIR SURFACES TO MATCH EXISTING UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.

D. PRIOR TO PERFORMING ANY WORK OR PURCHASING ANY MATERIAL, THE CONTRACTOR SHALL VERIFY LOCATION OF EXISTING PLUMBING PIPING.

E. CONTRACTOR SHALL INSPECT, ROD OUT, AND/OR REPLACE AS REQUIRED ALL EXISTING SANITARY SEWER, VENT, AND STORM DRAIN PIPING PRIOR TO CONNECTING NEW PIPING. CONTRACTOR SHALL NOTIFY OWNER OF ANY PIPING THAT IS NOT SERVICEABLE AND WILL REQUIRE REPLACING.

F. ALL NEW WORK PIPING INDICATED ON THIS DRAWING SHALL BE NEW MATERIALS UNLESS NOTED OTHERWISE. REUSE OF USED PIPING IS PROHIBITED.
A. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT TO BE SCAL D OR STAFF. ALL DIMENSIONS ARE INCHES AND FEET. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND LOCATIONS OF ALL PLUMBING FixTURES AND EQUIPMENT.

B. COORDINATE PIPE ROUTING WITH DUCT ROUTING, EQUIPMENT LOCATIONS, ELECTRICAL INSTALLATIONS, AND BUILDING STRUCTURAL MEMBERS. OFFSET PIPING WHERE REQUIRED TO AVOID CONFLICTS. AVOID PENETRATING ANY MAIN STRUCTURAL BEAM. NOTIFY COR OF ANY CONFLICTS.

C. CONTRACTOR SHALL REMOVE AND REPAIR PORTIONS OF FLOORS, CEILINGS AND/OR SLABS AFFECTED BY PLUMBING MODIFICATIONS. REPAIR SURFACES TO MATCH EXISTING UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.

D. PRIOR TO PERFORMING ANY WORK OR PURCHASING ANY MATERIAL, THE CONTRACTOR SHALL VERIFY LOCATION OF EXISTING PLUMBING PIPING.

E. CONTRACTOR SHALL INSPECT, ROD OUT, AND/OR REPLACE AS REQUIRED ALL EXISTING SANITARY SEWER, VENT, AND STORM DRAIN PIPING PRIOR TO CONNECTING NEW PIPING. CONTRACTOR SHALL NOTIFY OWNER OF ANY PIPING THAT IS NOT SERVICEABLE AND WILL REQUIRE REPLACING.

F. ALL NEW WORK PIPING INDICATED ON THIS DRAWING SHALL BE NEW MATERIALS UNLESS NOTED OTHERWISE. REUSE OF USED PIPING IS PROHIBITED.

GENERAL NOTES:

1. CONNECT NEW DOMESTIC COLD WATER SUPPLY PIPING TO EXISTING DOMESTIC WATER SUPPLY PIPING ABOVE CEILING AT APPROXIMATE LOCATION INDICATED.

2. CONNECT NEW DOMESTIC HOT WATER SUPPLY PIPING TO EXISTING DOMESTIC HOT WATER SUPPLY PIPING ABOVE CEILING AT APPROXIMATE LOCATION INDICATED.

3. PROVIDE AND INSTALL DOMESTIC HOT WATER RETURN BALANCING VALVE ASSEMBLY.
A. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT TO BE SCALABLE AND SHALL NOT BE USED AS MODELS OR MATHS, AND SHALL NOT BE CONSIDERED ACCURATE OR COMPLETE. ALL DIMENSIONS, PIPE SIZES, AND INVERTS MUST BE FIELD VERIFIED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND LOCATIONS OF ALL PLUMBING FIXTURES AND EQUIPMENT.

B. COORDINATE PIPE ROUTING WITH DUCT ROUTING, EQUIPMENT LOCATIONS, ELECTRICAL INSTALLATIONS, AND BUILDING STRUCTURAL MEMBERS. OFFSET PIPING WHERE REQUIRED TO AVOID CONFLICTS. AVOID PENETRATING ANY MAIN STRUCTURAL BEAM. NOTIFY COR OF ANY CONFLICTS.

C. CONTRACTOR SHALL REMOVE AND REPAIR PORTIONS OF FLOORS, CEILINGS AND/OR SLABS AFFECTED BY PLUMBING MODIFICATIONS. REPAIR SURFACES TO MATCH EXISTING UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.

D. PRIOR TO PERFORMING ANY WORK OR PURCHASING ANY MATERIAL, THE CONTRACTOR SHALL VERIFY LOCATION OF EXISTING PLUMBING PIPING.

E. CONTRACTOR SHALL INSPECT, ROD OUT, AND/OR REPLACE ALL EXISTING SANITARY SEWER, VENT, AND STORM DRAIN PIPING PRIOR TO CONNECTING NEW PIPING. CONTRACTOR SHALL NOTIFY OWNER OF ANY PIPING THAT IS NOT SERVICEABLE AND WILL REQUIRE REPLACING.

F. ALL NEW WORK PIPING INDICATED ON THIS DRAWING SHALL BE NEW MATERIALS UNLESS NOTED OTHERWISE. REUSE OF USED PIPING IS PROHIBITED.
FIRST FLOOR DEMO PLAN

GENERAL NOTES
1. REFER TO SHEET F-001 FOR FIRE PROTECTION LEGEND, AMBULATIONS, WATER FLOW DATA AND SPRINKLER SYSTEM INFORMATION.
2. REFER TO SHEET F-001 FIRE ALARM LEGEND, PIPING DIAGRAMS AND TRADES SPECIFICATIONS.
3. DETAILED SPECIFICATIONS OF FIRE PROTECTION SYSTEMS TO INCLUDE REMOVAL OF ALL SPRINKLER HEADS AND COVER PLATES. ASSOCIATED PIPING AND APPURTENANCES ARE ALSO REQUIRED TO BE REMOVED WHERE DEEMED NECESSARY IN ORDER TO INSTALL NEW SPRINKLER HEADS.
4. REMOVAL OF SCOPE OF FIRE ALARM SYSTEMS IS REGULAR REMOVAL OF ALL DEVICES AND ASSOCIATED CIRCUITS, JUNCTION BOXES, ETC. THAT ARE AFFECTED BY FLOOR PLAN CHANGES.
5. PROVIDE TEMPORARY SUPPORT OF SPRINKLER AND FIRE ALARM SYSTEMS AS NEEDED FOR DEMOLITION SCOPE OF WORK.

KEY NOTES
1. REMOVE ALL SPRINKLER HEADS AND COVER PLATES.
2. REMOVE ALL FIRE ALARM DEVICES EXCEPT WHERE SPECIFIED OTHERWISE.
3. TAMPER SWITCH AND FLOW SWITCH AT EXISTING SPRINKLER SYSTEM RISER/CONTROL ASSEMBLY ARE EXISTING TO REMAIN.
4. EXISTING NAC PANEL TO REMAIN.
5. EXISTING FIRE ALARM ANNUNCIATOR PANEL TO REMAIN.

FIRST FLOOR DEMO PLAN

FD101
1. REFER TO SHEET F-002 FOR FIRE PROTECTION LEGEND, AMBLIGUATIONS, WATER FLOW DATA AND SPRINKLER SYSTEM INFORMATION.
2. REFER TO SHEET F-002 FOR FIRE PROTECTION LEGEND, AMBIQUOUS, WATER FLOW DATA AND SPRINKLER SYSTEM INFORMATION.
3. PROVIDE NEW SPRINKLER HEADS THROUGHOUT THE FLOOR IN ACCORDANCE WITH NFPA 13 - 2010.
4. SPRINKLERS INSTALLED IN SPACES WITH ACT CEILING ARE TO BE INSTALLED CENTER OF TILE. UPRIGHT SPRINKLERS ARE REQUIRED TO BE INSTALLED IN SPACES WITH EXPOSED CONSTRUCTION ABOVE.
5. ALL SPACES NOT ShOWN AS ORDINARY HAZARD GROUP 1 ARE CONSIDERED LIGHT HAZARD.

1. INSTALL NEW SPRINKLER HEADS AND COVER PLATES.
2. PROVIDE PROTECTIVE GUARD OF SPRINKLER HEADS WITHIN THE TELECOMMUNICATION ROOM.
3. PROVIDE NEW SPRINKLER HEADS THROUGHOUT THE FLOOR IN ACCORDANCE WITH NFPA 13 - 2010.
REFERENCES

1. FOR LEGEND AND GENERAL NOTES SEE SHEET M001.

1. REMOVE OUTDOOR AIR DUCT BACK TO LOCATION INDICATED
2. REMOVE CEILING MOUNTED FAN COIL UNITS
3. REMOVE STEAM RADIATOR. CAP PIPING ABOVE CEILING ON GROUND FLOOR.
4. REMOVE EXHAUST DUCTWORK TO SCOPE WORK. EXISTING RI SER TO REMAIN.

FIRST FLOOR DEMOLITION PLAN - HVAC
1. FOR LEGEND SEE GENERAL NOTES SHEET MD01.

FIRST FLOOR DEMOLITION PLAN - PIPING

GENERAL NOTES

1. REMOVE CEILING MOUNTED FCU, CONTROLS, SUPPORT, AND CONDENSATION DRAIN.
2. REMOVE 2ND FLOOR MOUNTED FCU, CONTROLS, AND REFRIGERATION UNIT. REFER TO SHEET MD04.
3. REMOVE 3RD FLOOR MOUNTED FCU, CONTROLS, AND REFRIGERATION UNIT. REFER TO SHEET MD05.

DEMOLITION NOTES

1. REMOVE CEILING MOUNTED FCU, CONTROLS, SUPPORT, AND CONDENSATION DRAIN.
2. REMOVE 2ND FLOOR MOUNTED FCU, CONTROLS, AND REFRIGERATION UNIT. REFER TO SHEET MD04.
3. REMOVE 3RD FLOOR MOUNTED FCU, CONTROLS, AND REFRIGERATION UNIT. REFER TO SHEET MD05.
4. REMOVE STEAM AND CONDENSATE PIPING THAT RUNS VERTICALLY THRU THE FLOORS. CAP PIPING ABOVE THE GROUND FLOOR CEILING.
1. FOR LEGEND AND GENERAL NOTES SEE SHEET M001.
FIRST FLOOR NEW WORK PLAN - HVAC

A. KEY NOTES

1. DISTRIBUTION PLATE / FAN Coil Units
2. DUCTS / Duct Run
3. CONDENSER TO EXISTING EXHAUST WORK
4. FAN PLATE / FAN Coil Units
5. EXHAUST HOOD / EXHAUST HOODS
6. EXHAUST HOOD / EXHAUST DUCTWORK
7. EXHAUST HOOD / EXHAUST HOODS
8. EXHAUST HOOD / EXHAUST DUCTWORK

B. GENERAL NOTES

1. TYPED LEGEND AND GENERAL NOTES SHEET NO. 002
2. BALANCED A.C. PLUMBING TO SUPPLY SHOWN IN OTHER SHEETS

C. FIRST FLOOR NEW WORK PLAN - HVAC

- STUDENT LOUNGE
- FACULTY OFFICE
- PROFESSIONAL FACULTY OFFICE
- FACULTY OFFICE
- PROFESSOR OFFICE
- FIRST FLOOR LAB / LAB 1
- FIRST FLOOR LAB / LAB 2
- OT LECTURE / LAB 1
- OT LECTURE / LAB 2
- ELEVATOR
- COPY
- STAIR
- LOCKERS
- UNISEX TOILET
- O&P FACULTY
- O&P PROGRAM

D. REV. 0

- 1/8" = 1'-0"
- 30"x14" 10"ø
- 300 300 125
- 12"x8" 12"x10" 8"x8" 16"x6" 20"x6" 26"x6" 40"x6"
- 125 198 SF
- 200 125 SF
- 200 125 SF
- 200 125 SF
- 200 125 SF
- 200 125 SF
- 200 125 SF
- 200 125 SF
- 200 125 SF
- 200 125 SF

E. SUBMITTAL

- MH101
- 423.929.2191

F. REVISIONS

- CLARKNESEN
- 210 E. WATSON AVENUE
- MOUNTAIN HOME, TN 37684
- 1101

G. REVIEW:

- 02.25.2021
- WAW
- JD
- WAW

H. DRAWN:

- CN 9195

I. DESIGN:

- MH101
- FIRST FLOOR NEW WORK PLAN - HVAC
GENERAL NOTES

A. FOR LEGEND AND GENERAL NOTES SEE SHEET M-001
B. PROVIDE ACCESSORIES DESIGNS FOR ALL FOCU
C. PROVIDE AUXILIARY DRAIN PAN FOR CONCEALED FOCUS.
D. TYPICAL FCU RUNOUTS ARE 1" CHILLED WATER AND 3/4" HOT WATER.

KEY NOTES

1. CONNECT TO EXISTING CHILLED AND HOT WATER PIPES.

FIRST FLOOR NEW WORK PLAN - PIPING
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<th>HPW</th>
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<th>TANK</th>
<th>FCU</th>
<th>COIL</th>
<th>GPH</th>
<th>AMPS</th>
<th>PRESSURE</th>
<th>DPF</th>
<th>DP</th>
<th>HPW-4 X * 75 40 2 HOT WATER</th>
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* Provide with prewired fan speed controller (EC motor), rubber in shear vibration isolators, built in thermal overload protection and pre-wired disconnect.

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* Provide with hard wired wall mounted thermostat and factory controls.

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* Provide with prewired fan speed controller (EC motor), rubber in shear vibration isolators, built in thermal overload protection and pre-wired disconnect.
THE EXHAUST FAN SHALL BE STARTED BY A MANUAL SWITCH ON THE FACE OF THE OVEN EXHAUST HOOD. THE FAN SHALL BE INTERLOCKED WITH THE SPACE TEMPERATURE NOT AT SETPOINT FOR 30 MINUTES (ADJUSTABLE) OR LONGER.

THE CONTROL SYSTEM SHALL ALARM THE USER INTERFACE WHENEVER ANY OF THE FOLLOWING CONDITIONS OCCURS:

1. AUXILIARY DRAIN PAN FILLED WITH CONDENSATE.
2. PRIMARY DRAIN PAN FILLED WITH CONDENSATE.
3. FREEZE PROTECTION THERMOSTAT INDICATING FREEZING TEMPERATURES IN AIR HANDLING UNIT.
4. SMOKE DETECTED IN THE AIR HANDLING UNIT.
5. SMOKE DETECTED IN THE OVEN HOOD EXHAUST FAN.

THE MAKE UP AIR UNIT SHALL ONLY OPERATE WITH THE OVEN HOOD EXHAUST FAN IN OPERATION.

WITH THE SAFETY CONTROLS IN THE NORMAL POSITION AND THE VFD IN THE AUTO POSITION THE FAN MOTOR SHALL BE INTERLOCKED WITH THE DDC SYSTEM OVERRIDE SWITCH. DURING SCHEDULED SUPPLY FAN OFF TIMES THE SUPPLY FAN SHALL BE STARTED FOR A PERIOD OF TWO HOURS (ADJUSTABLE) BY AN OCCUPANT ANYTIME THE SPACE TEMPERATURE EXCEEDS 0.8 INCHES WC (ADJUSTABLE SETPOINT)

THE CONTROL SYSTEM SHALL MODULATE THE HEATING WATER AND CHILLED WATER CONTROL VALVES IN SEQUENCE TO MAINTAIN SPACE TEMPERATURE AT SETPOINT.

THE SUPPLY FAN AND CONTROLS INTERLOCK: WHENEVER THE SUPPLY FAN IS OFF ALL CONTROL ACTUATORS SHALL BE PLACED IN THEIR NORMAL POSITION.

FILTER MONITORING

THE CONTROL SYSTEM SHALL MONITOR THE PRESSURE DROP ACROSS THE FILTERS EQUALS OR EXCEEDS 0.5 INCHES WC (ADJUSTABLE SETPOINT).

THE CONTROL SYSTEM SHALL ALARM THE USER INTERFACE COMPUTER WHENEVER THE PRESSURE DROP ACROSS THE FILTERS EXCEEDS 0.5 INCHES WC (ADJUSTABLE SETPOINT).

THE SUPPLY FAN SHALL TURN OFF IF THE VAR-CAP SUPPLY FAN COIL ALARM IS ACTIVATED. THE USER INTERFACE INDICATES WHETHER ANY OF THE FOLLOWING CONDITIONS OCCUR:

1. SMOKE DETECTED IN THE AIR HANDLING UNIT.
2. PRIMARY DRAIN PAN FILLED WITH CONDENSATE.
3. FREEZE PROTECTION THERMOSTAT INDICATING FREEZING TEMPERATURES IN AIR HANDLING UNIT.
4. SUPPLY AIR SMOKE DETECTOR
5. FILTER ALARM

THE SUPPLY FAN SHALL BE STARTED BY A MANUAL SWITCH ON THE FACE OF THE OVEN EXHAUST HOOD. THIS FAN SHALL BE INTERLOCKED WITH THE MAKE UP AIR UNIT.

THE MAKE UP AIR UNIT SHALL ONLY OPERATE WITH THE OVEN HOOD EXHAUST FAN IN OPERATION.

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4. SUPPLY AIR SMOKE DETECTOR
5. FILTER ALARM

THE SUPPLY FAN SHALL BE STARTED BY A MANUAL SWITCH ON THE FACE OF THE OVEN EXHAUST HOOD. THIS FAN SHALL BE INTERLOCKED WITH THE MAKE UP AIR UNIT.
ELECTRICAL LEGEND

ELECTRICAL ABBREVIATIONS

GENERAL NOTES

LEGEND NOTES

1. SPECIFICATIONS PROVIDED FOR DESIGNED WORK ARE Subject TO CHANGE TO REFLECT ADDITIONAL SPECIFICATIONS.

2. MATERIALS SPECIFIED ARE SUBJECT TO CHANGE.

3. CONTRACTOR IS RESPONSIBLE FOR THE USE OF ALL ELECTRICAL MATERIALS.

4. MATERIALS ARE DESIGNATED TO BE USED IN ACCORDANCE WITH THE FABRICATOR'S SYSTEM, BUILDING, OR EQUIPMENT.
A. ARCHITECTURAL DRAWINGS PRIOR TO DEMOLITION. ALL EXISTING CEILINGS, WALLS, AND FLOORS TO REMAIN THAT ARE DIRECTED IN NEW WORK.

B. ELECTRICAL DRAWINGS PRIOR TO DEMOLITION. WHERE REMOVING BRANCH CIRCUITS TO MECHANICAL EQUIPMENT BEING REMOVED WITH MECHANICAL.

C. REMOVE AND/or REMOVE EXISTING BRANCH CIRCUIT TO REMAIN. WHERE LIGHT FIXTURES ARE REMOVED FROM EXISTING LIGHT FIXTURES TO REMAIN, SPLICE AND EXTEND CIRCUITS AS REQUIRED TO MAINTAIN FULL OPERATION.

D. PROVIDED BLANK STAINLESS STEEL COVER PLATES ON ALL JUNCTION BOXES, TERMINAL BOXES, AND PANEL BOARDS NOT INTENDED FOR REUSE.

E. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTINGS OF EXISTING SYSTEM CIRCUITRY BACK TO SERVING PANELBOARD OR EXISTING BRANCH CIRCUIT TO REMAIN.

F. PROVIDE ADDITIONAL FEEDERS AS REQUIRED.

G. REMOVE ELECTRICAL CONNECTIONS TO EXISTING HVAC EQUIPMENT, BOXES NOT INTENDED FOR REUSE.

H. PROVIDE CONDUIT AND CABLE SUPPORTS TO BUILDING STRUCTURE FOR ALL SUPPORTED AS REQUIRED.

I. COORDINATE ELECTRICAL DEMOLITION WITH ARCHITECTURAL FLOOR PLANS, DETAILS, ELEVATIONS, STRUCTURAL, MECHANICAL AND PLUMBING DRAWINGS. THE ELECTRICAL CONTRACTOR IS TO ENSURE KNOWN DISCREPANCIES.

J. REMOVE ALL EXISTING SYSTEMS CABLING AND DATA OUTLETS IN AREAS OF EXISTING STRUCTURE WHERE NO WORK IS TO TAKE PLACE. UPON COMPLETION OF WORK, DEMOLISH AND REMOVE PROTECTION.

K. ALL ITEMS SALVAGED FOR REINSTALLATION SHALL BE PROTECTED FROM DAMAGE IN ACT OF REMOVAL FROM ITS CURRENT LOCATION, NOTIFY OWNER AND ARCHITECT IMMEDIATELY.

L. Coordinate all HVAC equipment and locations of equipment being removed and not being replaced, remove circuit, see mechanical plans for exact locations. WHERE EQUIPMENT IS BEING REMOVED AND NOT BEING REPLACED, REMOVE CIRCUIT, SEE MECHANICAL PLANS FOR EXACT LOCATIONS. WHERE EQUIPMENT IS BEING REMOVED WITH MECHANICAL.

M. Remove exit signs, egress light fixtures and associated branch circuitry back to serving panelboard or existing branch circuit to remain.

N. Archivally store circuit panel board and panel wireway to be demolished.

N1. Existing panel and panel wireway to be demolished.

O. Existing panel to be demolished.

P. Existing panel, arc panel, mainly to be demolished.

Q. Remove panel to be removed.

R. Remove panel to be removed.

S. Remove panel to be removed.

T. Remove panel to be removed.

U. Remove panel to be removed.

V. Remove panel to be removed.

W. Remove panel to be removed.

X. Remove panel to be removed.

Y. Remove panel to be removed.

Z. Remove panel to be removed.
GENERAL NOTES

A. SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET EP601 FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONNECTION INFORMATION.

B. THE CONTRACTOR SHALL PROVIDE AUTOMATIC RECEPTACLE CONTROL THAT MEETS ASHRAE 90.1 WHERE AT LEAST 50% OF ALL 125 VOLT, 20 AMP RECEPTACLES SHALL HAVE AUTOMATIC CONTROL IN THE FOLLOWING AREAS: PRIVATE OFFICES, OPEN OFFICES, AND COMPUTER CLASSROOMS. SEE DETAIL A5, SHEET EL501 FOR CONTROL SCHEMATIC.

C. CONTRACTOR TO PROVIDE AN IN-BUILDING RADIO SIGNAL AMPLIFICATION SYSTEM (IBEC) TO PROVIDE COMPLETE COVERAGE IN THE BUILDING FOR THE PUBLIC SAFETY AGENCIES AS REQUIRED BY THE LOCAL AHJ THAT MEETS THE CURRENT NFPA 72, IFC 510.2 AND ALL LOCAL CODES AND ORDINANCES. SEE SPECIFICATIONS FOR PERFORMANCE SPEC.

KEY NOTES

1/8" = 1'-0"
GROUNDING SYSTEM DETAIL - KEY NOTES

- SERVICE GROUND PLATE
- GROUND BUS
- STEEL COLUMN
- METAL FRAME ELECTRODE
- COLUMN REBAR
- REFERENCE GROUND BUS - SECTION

(ALL NOTES MAY NOT APPLY TO THIS PROJECT)

- SERVICE ENTRANCE ENCLOSURE
- GROUND BUS
- NEUTRAL BUS

- EXOTHERMIC WELD, CABLE TO FLAT STEEL, CADWELD #V V.
- TWO 1-1/2"X1-1/2"X6" HIGH SLOTTED GALVANIZED C-CHANNEL. MOUNT CHANNEL TO STRUCTURE WITH MACHINE BOLTS AND CONCRETE ANCHORS ON SOLID MASONRY OR TOGGLE BOLTS ON HOLLOW MASONRY OR GYPSUM BOARD. MOUNT COPPER BUS TO C-CHANNEL WITH 3/4" BOLT AND LOCK NUT ASSEMBLY.
- 1/4"x4"x24" COPPER BUS. DRILL AND TAP BUS FOR BUILDING GROUND CONNECTIONS SEPARATELY DERIVED SERVICES AND BACKBOARD GROUNDING POINTS.
- MAIN BONDING JUMPER, SIZED BY MANUFACTURER PER 250-122.
- 6 CONDUCTOR GROUND BUS, COPPER OR ALUMINUM RATED, ILSCO #PET SERIES OR EQUAL.
- PROVIDE ENCASED GROUNDING ELECTRODE CONSISTING OF A MINIMUM #4 AWG SOLID CONDUCTOR 20' IN CONTACT WITH EARTH, PER NEC 250.52 (3).

GENERAL NOTE: ALL METALLIC PIPING SYSTEMS IN BUILDING AND LIGHTNING PROTECTION SYSTEM (IF PROVIDED) ARE TO BE BONDED TO THE BUILDING'S GROUNDING SYSTEM WITH APPROPRIATE GROUNDING CONDUCTOR PER NEC 250.

- 3/0 BARE GROUNDING ELECTRODE CONDUCTOR.
- (3) 3/4"X10-0" COPPER CLAD STEEL GROUND ROD 10' APART, DRIVEN 24" BELOW GRADE MINIMUM.
- 3/0 BARE GROUNDING ELECTRODE CONDUCTOR IN 2" PVC-40.
- EXOTHERMIC WELD CONNECTOR: TWO CABLES TO GROUND ROD, CADWELD #GT OR #GY.
- CABLE TO CABLE TEE, CADWELD #TA.
- ONE CABLE TO GROUND ROD, CADWELD #GR.
- SILICON BRONZE BOLT & WASHER.
- 3/0 BONDING JUMPER IN 2" PVC-40.
- 3/0 BARE BONDING JUMPER.
- EXOTHERMIC WELD, CABLE TO TWO HOLE LUG ASSEMBLY, CADWELD #GL.
- CAST BRONZE, UL LISTED GROUND CLAMP, O-Z/GEDNEY TYPE-G OR EQUAL.
- BONDING JUMPER, SIZED BY EQUIPMENT MANUFACTURER PER NEC 250-102.
- BONDING JUMPER TO GROUNDING BUSHING. ALL CONDUIT CONNECTED TO THE SERVICE ENTRANCE ENCLOSURE. SHALL BE BONDED, SIZED PER NEC 250-122.
### PANEL SUBFEED FEEDTHRU TOTAL D.F. TOTAL KVA

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**NEW PANEL 12-N2 SCHEDULE**

**NEW PANEL 12-N3 SCHEDULE**

**NEW PANEL 12-N4 SCHEDULE**
KEY NOTES

1. DATA TWO-POST RACK 19" WITH MINIMUM 45 RACK MOUNT UNITS, TYPICAL.
2. PROVIDE CENTER BRACKETS FOR BRACING OF SHELF RACKS. PROVIDE SHELF RACKS IN 18" OR 24" DEPTH, AS DEEMED APPROPRIATE.
3. PROVIDE WIRE MESH OR WIRE MESH PANELING FOR DATA CABINETS.
4. PROVIDE SUPPORT AS APPLICABLE TO LADDER RACK LOCATION.
5. EXISTING TO REMAIN.
6. PROVIDE (3) 4" CONDUIT SLEEVES WITH NYLON BUSHINGS TO EXTEND MINIMUM 3" AFF. SLEEVE END EXTENDING INTO BASEMENT LEVEL SHOULD EXTEND AT A DISTANCE THAT ALLOWS FOR PROPER BEND RADIUS OF CABLES ROUTING INTO J-HOOK PATHWAY.

GENERAL NOTES
POWER TRANSFER HINGE

EMPTY 1" INCH CONDUIT TO NEAREST WIREWAY, PULL BOX, OR ADJACENT DOOR

FINISHED CEILING

FINISHED FLOOR

3/4" FLEXIBLE METAL CONDUIT. RUN ALONG DOOR FRAME TO ELECTRIC HINGE.

DL DOOR FRAME CUTOUT FOR MAGNETIC SWITCH IF APPLICABLE TO SYSTEM

J JUNCTION BOX FOR CARD READER ON NON-SECURE SIDE

42" 3/4" CONDUIT

FACTORY BORE IN DOOR FROM HINGE LOCATION TO LOCKSET MOUNT 12" ABOVE FINISHED CEILING OR IF NO CEILING MOUNT 9'-0" AFF

DETAIL NOTES

• CONTRACTOR IS TO COORDINATE WITH OWNER PROCURED ACCESS CONTROL CONTRACTOR FOR COMPLETE INFRASTRUCTURE SYSTEM.

WALLPHONE/DATA WAO DETAIL NOTES:

1. ORANGE CAT6 UTP JACK WITH "BLUE" CAT6 UTP CMP
2. GREEN CAT6 UTP JACK WITH "YELLOW " CAT6 UTP CMP
3. BLANK INSERT, UON.
4. 4-11/16" SQ x 3" DEEP DEVICE BOX WITH SINGLE GANG MUD RING.
5. SINGLE GANG (4) PORT FACEPLATE
6. SINGLE GANG (1) PORT FACEPLATE WITH MOUNTING STUDS
7. SINGLE GANG (1) PORT FACEPLATE

NOTES:

(2) HOLE PATTERN PER RECOMMENDATION OF BICSI AND ANSI/EIA/TIA-607 STANDOFF BRACKET ASSEMBLY WITH 2700V INSULATORS, TYP FOR 2.

LOCK WASHER, TYP FOR 2.

8mm 2

3

2

1

NOT TO SCALE

1300

SHEET

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B

C

D

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DESIGN:

DRAWN:

REVIEW:

PROFESSIONAL SEAL

DESIGNER

REVISIONS

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ET501

ET501

TELECOM DETAILS

DESIGN DEVELOPMENT

Designer

Author

Checker

ETSU BUILDING 2 RENOVATION

EAST TENNESSEE STATE UNIVERSITY

BUILDING #2 DOGWOOD AVE

VA MEDICAL CENTER CAMPUS

MOUNTAIN HOME, TN 37684

02.25.2021

CN 9195

NOT TO SCALE

A1

SINGLE DOOR WITH CARD READER

WAO DETAIL

PBB