ETSU VA BUILDING 2 - 1ST FLOOR RENOVATION

EAST TENNESSEE STATE UNIVERSITY

BUILDING #2 DOGWOOD AVE
VA MEDICAL CENTER CAMPUS
MOUNTAIN HOME, TN 37684
WASHINGTON COUNTY

SITE MAP

PROJECT TEAM

OWNER
EAST TENNESSEE STATE UNIVERSITY

ARCHITECT
CLARK NEXSEN
210 EAST WATAUGA AVENUE;
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STRUCTURAL ENGINEER
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321 N WEST STREET, SUITE 105
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MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION ENGINEERS
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CONSTRUCTION DOCUMENTS

05.13.2021

COVER SHEET
G-001
ROUGH CARPENTRY NOTES:

1. ROUGH CARPENTRY MUST BE ACCORDING TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) REQUIREMENTS.

2. UNLESS OTHERWISE NOTED, USE COMBO NAILS AND ALL NAILS MUST CONFORM TO THE TRADES MANUFACTURER’S SPECIFICATIONS AS SHOWN ON THE DETAIL DRAWINGS.

3. HIGH STRENGTH BOLTS MAY BE TIGHTENED TO THE “SNUG TIGHT” CONDITION IN LIEU OF FULL PRETENSIONING.

4. WOOD FRAMING MEMBERS MUST COMPLY WITH THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) REQUIREMENTS.

5. WOOD FRAMING MEMBERS MUST COMPLY WITH THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) REQUIREMENTS.

6. THE STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH THE SPECIFICATIONS. THE CONTRACTOR MUST VERIFY THE REQUIREMENTS FOR A NEW STRUCTURE.

7. PRIOR TO ISSUING THE STRUCTURAL DRAWINGS FOR ANY PURPOSE, AUTHORIZATION MUST BE OBTAINED FROM THE STRUCTURAL ENGINEER OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, ETC. UNLESS OTHERWISE NOTED, USE ‘COMMON’ NAILS AND ALL NAILING MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

POST-INSTALLED ANCHOR NOTES:

1. ALL POST INSTALLED ANCHORS INDICATED IN THE DRAWINGS ARE BY DETAIL, ACHORs CANNOT BE USED IN PLACE OF ANCHORS SPECIFIED. BAR ANCHORS MUST NOT BE EXPLICITLY UGGERED IN THE DRAWINGS. THE FOLLOWING ANCHORS ARE SPECIFIED TO BE UTILIZED.

2. THE CONTRACTOR MUST BE FAMILIAR WITH ITS DIMENSIONS, SPECIFICATIONS, AND ALL OTHER REQUIREMENTS FOR THE PROPER INSTALLATION AND TESTING OF THE RESPECTIVE PRODUCTS.

3. WHEN INSTALLING ANCHORS, THE CONTRACTOR MUST BE FAMILIAR WITH ITS SPECIFICATIONS, AND EXPERIENCE IN INSTALLATION IS REQUIRED.

4. WHERE MULTIPLE FRAME MEMBERS ARE INDICATED, SENG CONTRACTOR MUST VERIFY INSTALLATION HAS BEEN PERFORMED IN ACCORDANCE WITH THE MANUFACTURER’S WRITTEN INSTRUCTIONS. AT A MINIMUM, SPECIAL INSTALLATION CATEGORY, AND COMPREHENSIVE INSTALLATION INSTRUCTIONS.

5. ALL POST INSTALLED ANCHORS MUST COMPLY WITH THE REQUIREMENTS OF THE RESPECTIVE PRODUCTS.

6. EXISTING EMBEDDED ITEMS IN THE MASONRY STRUCTURE MAY CONFLICT WITH THE INSTALLATION REQUIREMENTS OF THE POST INSTALLED ANCHORS.

7. THE STRUCTURAL ENGINEER OF OTHER TRADES MUST BE OBTAINED TO DESIGN AND VERIFY ALL NAILING.

8. VERIFY THAT THE INSTALLATION SEQUENCING IS IN ACCORDANCE WITH THE CONTRACT DOCUMENT.

9. ALL POST INSTALLED ANCHORS MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER’S WRITTEN INSTRUCTIONS. INSTALLATION MUST BE SIMPLIFIED TO THE RESPECTIVE PRODUCTS.

10. VERIFY THAT THE INSTALLATION SEQUENCING IS IN ACCORDANCE WITH THE CONTRACT DOCUMENT.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL MUST COMPLY WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) REQUIREMENTS.

2. UNLESS OTHERWISE NOTED, USE COMBO NAILS AND ALL NAILS MUST CONFORM TO THE TRADES MANUFACTURER’S SPECIFICATIONS AS SHOWN ON THE DETAIL DRAWINGS.

3. HIGH STRENGTH BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION IN LIEU OF FULL PRETENSIONING.

4. WOOD FRAMING MEMBERS MUST COMPLY WITH THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) REQUIREMENTS.
STATEMENT OF SPECIAL INSPECTION SERVICES

PROJECT: EAST TENNESSEE STATE UNIVERSITY

N5. STRUCTURAL DETAILS
N5.2 TBL N5.6-1

1. INSPECTIONS PRIOR TO WELDING
E5.3
N5.6-1

1. FABRICATOR CERTIFICATION / VERIFICATION OF QUALITY CONTROL PROCEDURES

a. VERIFY DIAMETER, GRADE, TYPE AND LENGTH OF ANCHOR RODS AND OTHER EMBEDDED ITEMS SUPPORTING STRUCTURAL STEEL

b. INSPECTION OF FABRICATED ASSEMBLIES & ERECTED STEEL FRAMING VERIFYING COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS

1. SPECIAL INSPECTOR (SI-1)

2. TESTING AGENCY (TA-1)

3. TESTING AGENCY (TA-2)

4. GEOTECHNICAL ENGINEER (GE-1)

5. OTHER (O-1)

THE FOLLOWING COMPRISES THE REQUIRED SCHEDULE OF SPECIAL INSPECTIONS FOR THIS PROJECT. THE CONSTRUCTION DIVISIONS WHICH REQUIRE SPECIAL INSPECTIONS FOR THIS PROJECT ARE AS FOLLOWS.

STRUCTURAL STEEL AND HIGH STRENGTH BOLTING

INSPECTION TASK

NOTE: THE INSPECTION ARE TO BE PERFORMED IN THE ORDER AS SPECIFIED TO ENSURE THAT THE IDEAL QUALITY OF CONSTRUCTION IS MAINTAINED. THE INSTRUCTIONS SHOULD BE FOLLOWED TO THE LETTER AND SAFETY PRECAUTIONS MUST BE OBSERVED.

FOOTNOTE: THESE LOCATIONS ARE TO BE LOCATED ON THE SITE AND MANUFACTURER DETAILED DRAWINGS, IF PROVIDED.

WELDS OF STRUCTURAL STEEL

INSPECTION TASK

NOTE: THESE LOCATIONS ARE TO BE LOCATED ON THE SITE AND MANUFACTURER DETAILED DRAWINGS, IF PROVIDED.

FOOTNOTE: THESE LOCATIONS ARE TO BE LOCATED ON THE SITE AND MANUFACTURER DETAILED DRAWINGS, IF PROVIDED.
KEY NOTES:

1. EXISTING 3"x12" (TRUE) FLOOR JOISTS AT 14" ON CENTER.
2. EXISTING 10"x16" (TRUE) GRIDER SUPPORTING FLOOR JOISTS.
3. EXISTING 6" DIAMETER CAST IRON COLUMN SUPPORTING GIRDERS.
4. REFER TO FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
5. TOP OF FINISHED FLOOR ELEVATION SHALL MATCH EXISTING FIRST FLOOR ELEVATION = +0'-0", MATCH EXISTING SECOND FLOOR ELEVATION = +12'-2"±.
6. 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 POST. CONTRACTOR TO VERIFY THESE ASSUMPTIONS AND REPORT ANY DEVIATIONS 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.

FRAMING PLAN NOTES:

1. REFER TO FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
2. TOP OF FINISHED FLOOR ELEVATION SHALL MATCH EXISTING FIRST FLOOR ELEVATION = +0'-0", MATCH EXISTING SECOND FLOOR ELEVATION = +12'-2"±.
3. EXISTING APPROXIMATELY 16" THICK, LOAD-BEARING, MASONRY WALL.
4. REPORT ANY DEVIATIONS 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"x16" (TRUE) FLOOR JOISTS AT 16" ON CENTER.

02 EXISTING 6"x10" (TRUE) GRID SUPPORTING FLOOR JOISTS.

03 EXISTING 6" DIAMETER CAST IRON COLUMN SUPPORTING GIRDERS. CONTRACTOR SHALL VERIFY A MINIMUM WALL THICKNESS OF 3/4" BEFORE ATTACHING ANY NEW STEEL FRAMING TO THE EXISTING COLUMNS. CONTRACTOR SHALL VERIFY THICKNESS OF COLUMNS AND CAST-IRON MATERIAL IN A NONDESTRUCTIVE MANNER. CONTACT ENGINEER FOR FURTHER DIRECTION.

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

09 EXISTING APPROXIMATELY 16" THICK, LOAD-BEARING, BRICKWORK WALL.
CONTRACTOR PARKING AREA

CONSTRUCTION STAGING AREA ENCLOSED IN CHAIN-MAIL FENCE. VERIFY SITE CONDITIONS AND LOCATIONS OF TREES, LANDSCAPING AND UTILITIES PRIOR TO NEW WORK. CONTRACTOR RESPONSIBLE FOR REPLACING LAWN AND ANY OTHER DAMAGED LANDSCAPING AT END OF PROJECT.

40'-0" (ADDITIONAL CONTRACTOR PARKING WILL BE LOCATED IN A REMOTE LOT AS IDENTIFIED BY ETSU)

EXISTING WALL (WITH LOCKED DOOR) SHOW WITH GRAY HATCH TO REMAIN DURING CONSTRUCTION. DEMOLISH WHEN NEW RATED STAIR ENCLOSURE IS COMPLETE

TEMPORARY 2-HOUR RATED PARTITION (UL DESIGN # U419) TO REMAIN IN PLACE DURING CONSTRUCTION. DEMOLISH WHEN NEW RATED STAIR ENCLOSURE IS COMPLETE.

CONTRACTOR TO MAINTAIN A MINIMUM OF 44" CLEAR EGRESS WIDTH FROM STAIR DOOR TO EXIT DOOR THROUGHOUT DURATION OF CONSTRUCTION.

1. THE BASEMENT, SECOND, AND THIRD FLOORS OF THE BUILDING WILL REMAIN OCCUPIED DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ACCESS TO AND EGRESS FROM THE BUILDING FOR THE DURATION OF CONSTRUCTION. ANY WORK THAT DISRUPTS EGRESS OR ACCESS SHALL BE COORDINATED WITH OWNER AND SCHEDULED TO OCCUR WHEN BUILDING IS NOT OCCUPIED.

2. PRIOR TO EXCAVATION/DEMOLITION CONTRACTOR IS REQUIRED TO PROVIDE NOTICE OF EXCAVATION/DEMOLITION TO HAVE UNDERGROUND UTILITY LINES MARKED, CONTACT TENNESSEE ONE-CALL CENTER, BY DIALING 811 OR VISITING http://www.tennessee811.com/
ALL DEMOLITION SHALL BE SAW CUT TO NEAT, STRAIGHT LINES FOR
PROTECTION IN ALL AREAS OF EXISTING STRUCTURE WHERE NO WORK IS
CONSTRUCTION AS DOCUMENTED IN THE CONTRACT DOCUMENTS.
OWNER AND ARCHITECT IMMEDIATELY.
REINSTALLED WILL BE CLEANED PRIOR TO INSTALLATION. IF ITEM IS
X'- Y" (REFER TO STRUCTURAL)
EXISTING WALL, DOOR, FRAME AND HARDWARE TO
FLOOR PLANS FOR DOOR TAGS.
EXISTING DOOR TO REMAIN
PORTION OF EXISTING WALL TO BE DEMOLISHED TO
7'-1 1/2"
AND SHALL FILL AND FINISH ALL HOLES AS DESCRIBED ABOVE.
ABESTOS ABATEMENT ASSESSMENT IS AVAILABLE UPON REQUEST.
ARCHITECT IMMEDIATELY OF SUSPECT MATERIAL. REFERENC
TEXTURE, FINISH SURFACE TO MATCH ADJACENT FINISHES OR PREPARE
CEILING LOCATIONS WHERE CONSTRUCTION IS TO REMAIN EXPOSED,
PATCH AND REPAIR ALL REMAINING CONSTRUCTION TO MATCH ADJACENT
PERMANENT BRACING.
OF THE STRUCTURE UNO. REFER TO STRUCTURAL DRAWINGS FOR
STABILITY. WALLS SHALL BE REMOVED FROM FLOOR SLAB TO UNDERSIDE
CLEAN STRAIGHT LINES AND TEMPORARILY SHORED FOR STRUCTURAL
MASONRY INTERIOR PARTITIONS BEING REMOVED SHALL BE SAW CUT TO
PROCEDURES AND LOCATIONS OF ACM. ALL DEMOLITION SHALL BE
DURING ALL DEMOLITION IN AREAS WHERE WORK COULD UNCOVER
THE PRESENCE OF LEAD CONTAMINATED PAINT HAS BEEN DETECTED.
DEMOLISH AND REMOVE EXISTING CEILING FINISHES. EXISTING PLASTER
REMOVE BASEBOARD AND DOOR TRIM. WINDOW TRIM TO REMAIN, UNO.
EXISTING FIRE ALARM NAC PANEL TO REMAIN, SEE FIRE
EXISTING ELECTRICAL PANELS TO REMAIN, SEE ELECTRICAL
MECHANICAL DRAWINGS.
INDICATED, SEE STRUCTURAL DRAWINGS.
NO NEW WORK IN AREA SHOWN HATCHED
EXISTING PIPE TO BE REMOVED OR MODIFIED TO FIT IN NEW
EXISTING TERRAZZO FLOORING TO REMAIN
WORK PRACTICES INCLUDING THE DISTURBANCE OF PAINT SYSTEMS
EQUIPMENT, AND MEDICAL SURVEILLANCE. ALTHOUGH THE OSHA
THE STANDARDS OF OSHA REGULATION 29 CFR 1926.62 (LEAD IN
PREPARATION, ETC.) TO LEAD BASED PAINT (LBP) OR LEAD CONTAINING
HEALTH ADMINISTRATION (OSHA) DOES NOT RECOGNIZE A THRESHOLD
WORK PRACTICES INCLUDING THE DISTURBANCE OF PAINT SYSTEMS
EQUIPMENT, AND MEDICAL SURVEILLANCE. ALTHOUGH THE OSHA
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HEALTH ADMINISTRATION (OSHA) DOES NOT RECOGNIZE A THRESHOLD

1. Plan dimensions shown are to face of framing members, face of masonry, face of existing wall, and to center line of columns, exclusive of interior walls.

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

3. All furniture and equipment shown gray on plans to be by owner and is N.I.C.

4. All dimensions to be field verified prior to installation of equipment / shelving / casework.

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, accessories, millwork, shelving, hardware, door stops and other equipment.

7. Verify and coordinate penetrations through floor slabs, roof decks 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, louver, and window elevations.

10. See specifications for specialty models & sheet AE103 for typical mounting heights and clearances.

11. Refer to sheet AE501 for partition type descriptions.

12. Refer to RCP sheets for all ceiling height & material designations in toilet rooms.
ANY CONFLICTING INFORMATION BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND THE CONTRACTOR'S DRAWINGS AND SPECIFICATIONS IS SUBJECT TO REVIEW AND CONFIRMATION BY THE ARCHITECT. NOTIFY ARCHITECT IN WRITING BEFORE CONSTRUCTION OF ANY CONFLICTS.

VERIFY AND COORDINATE PENETRATIONS THROUGH FLOOR SLABS, ROOF DECKS, AND PARTITIONS WITH PM&E AND FP HARDWARE, DOOR STOPS, AND OTHER EQUIPMENT.

PROVIDE WOOD BLOCKING IN METAL STUD PARTITIONS FOR MOUNTING FIXTURES, ACCESSORIES, MILLWORK, SHELVING, EXCLUSIVE OF ANY APPLIED FINISH.

REFER TO RCP SHEETS FOR ALL CEILING HEIGHT & MATERIAL DESIGNATIONS IN TOILET ROOMS.

SEE SPECIFICATIONS FOR SPECIALTY MODELS & SHEET AE103 FOR TYPICAL MOUNTING HEIGHTS AND CLEARANCES.
GENERAL NOTES:
1. PLAN DIMENSIONS SHOWN ARE TO FACE OF FINISH MASONRY, FACE OF BRICKWORK, FACE OF EXISTING EAVES AND RIDGES OF ROOF, EXCL. BUILDING ENTRANCES.
2. UNLESS OTHERWISE DESIGNATED, ALL DIMENSIONS ARE TO FACE OF PARTITION ASSEMBLY.
3. ALL INTERIOR DIMENSIONS ARE TO FACE OF PARTITION ASSEMBLY AS DEFINED BY THE PARTITION SCHEDULE.
4. REFER TO SHEET AE121 FOR PARTITION TYPE DESCRIPTIONS.
5. REFER TO SHEET AE501 FOR PARTITION TYPE DESCRIPTIONS.
6. REFER TO SHEET AE123 FOR PARTITION TYPE DESCRIPTIONS.
7. REFER TO SHEET AE122 FOR PARTITION TYPE DESCRIPTIONS.
8. REFER TO SHEET AE122 FOR PARTITION TYPE DESCRIPTIONS.
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11. REFER TO SHEET AE122 FOR PARTITION TYPE DESCRIPTIONS.
12. REFER TO SHEET AE122 FOR PARTITION TYPE DESCRIPTIONS.

ACCESSORY KEY NOTES:

PLAN KEY NOTES:

AREA 8 ENLARGED PLAN & TOILET ACCESSORIES

DRAWN: 210 E. WATAUGA AVENUE

PROJECT # 2021-04-20-03

SBC# 369/005-06-2020

ETSU VA BUILDING 2 - 1ST FLOOR RENOVATION

WASHINGTON COUNTY

BUILDING #2 DOGWOOD AVE

CLARK NEXSEN

2111 W. WATSON ROAD

CONSTRUCTION DOCUMENTS

05.18.2021

CN 9115
ARCHITECT FOR REVIEW AND MUST BE CLARIFIED PRIOR TO COMMENCING THE CONSTRUCTION IN QUESTION.

ANY CONFLICTING INFORMATION BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CIVIL, LANDSCAPE, STRUCTURAL, ALL FURNITURE AND EQUIPMENT SHOWN GRAY ON PLANS TO BE BY OWNER AND IS N.I.C.

ALL INTERIOR DIMENSIONS ARE TO FACE OF PARTITION AS ASSEMBLY AS DEFINED BY THE PARTITION SCHEDULE AND IS REFER TO SHEET AE601 FOR DOOR SCHEDULE, LOUVER, AND WINDOW ELEVATIONS.

VERIFY AND COORDINATE FINISH FLOOR ELEVATIONS WITH CIVIL AND STRUCTURAL PRIOR TO COMMENCING HARDWARE, DOOR STOPS AND OTHER EQUIPMENT.

EXCLUSIVE OF ANY APPLIED FINISH.
GENERAL NOTES:
1. REMOVE ALL SPRINKLER HEADS AND DRY PIPING PLATE.
2. REMOVE ALL FIRE ALARM BOXES UNLESS SPECIFIED OTHERWISE.
3. REMOVE ALL DRY PIPING AND DRY PIPING CONNECTIONS.
4. REMOVE ALL SPRINKLER HEADS AND SPRINKLER PIPEWORK.
5. REMOVE ALL FIRE ALARM BOXES AND FIRE ALARM SYSTEM, AS NOTED.

KEY NOTES:
1. REMOVE ALL SPRINKLER HEADS AND DRY PIPING PLATE.
2. REMOVE ALL FIRE ALARM BOXES UNLESS SPECIFIED OTHERWISE.
3. REMOVE ALL DRY PIPING AND DRY PIPING CONNECTIONS.
4. REMOVE ALL SPRINKLER HEADS AND SPRINKLER PIPEWORK.
5. REMOVE ALL FIRE ALARM BOXES AND FIRE ALARM SYSTEM, AS NOTED.
NOTES:

1. REFER TO DRAWINGS FOR LOCATION OF FLOOR DRAIN.
7. MINIMUM FLOW SHALL BE 3.00 GPM.
5. MINIMUM FLOW SHALL BE 0.25 GPM.
4. EXPOSED, ROUGH BRONZE CHROME PLATED FINISH.
3. DESIGN BASIS: GUARDIAN G3600LF.
2. DESIGN BASIS: POWERS LFe480-01.
12. PLUMBING FIXTURE AND ALL ACCESSORIES SHALL MEET ALL ADA REQUIREMENTS.
11. 5-1/4 INCH X 4-1/2 INCH PVC DRAINAGE BOX WITH STANDARD OPEN FRAME. BASIS OF DESIGN: GUY.
8. WALL MOUNTED, HAND HELD, EMERGENCY EYEWASH/DRENCH HOSE UNIT CONNECTED TO 96-INCH.
7. WALL HUNG, BI-LEVEL ELECTRIC WATER COOLER WITH SENSOR CONTROLLED BOTTLE FILLER.
 POINT OF USE THERMOSTATIC TYPE PRESSURE BALANCE MIXING VALVE (MV-2) AND DISPOSABLE SINK WITH SWIVEL GOOSENECK, 8-INCH CENTERSET, 4-INCH WRIST BLADE HANDLE CONTROL, 0.50 GPM FRONT, STAINLESS STEEL CAPS ON ALL CURBS, HOSE & HOSE BRACKET, CHROME PLATED PRESSURE BALANCE MIXING VALVE (MV-1) UNDER LAVATORY. BASIS OF DESIGN: LAVATORY - MAXIMUM SINGLE HOLE FAUCET. PROVIDE ASSE 1070 LISTED POINT OF USE THERMOSTATIC TYPE FLUSH VALVE - SLOAN SOLIS 8111-1.28-OR.
CONTROL, 1.28 GPF MAXIMUM FLUSH VALVE. BASIS OF DESIGN: WATER CLOSET - SLOAN ST-2459, ADA, PUBLIC.
4. SINGLE COMPARTMENT, UNDERMOUNTED, STAINLESS STEEL CUBE SINK, 20-INCH X 20-INCH X 8-INCH, CENTER HOLE.
2. DESIGN BASIS:聲 VACUUM.
1. REFER TO DRAWINGS FOR LOCATION OF FLOOR DRAIN.
7. WALL HUNG, BI-LEVEL ELECTRIC WATER COOLER WITH SENSOR CONTROLLED BOTTLE FILLER.
 POINT OF USE THERMOSTATIC TYPE PRESSURE BALANCE MIXING VALVE (MV-2) AND DISPOSABLE SINK WITH SWIVEL GOOSENECK, 8-INCH CENTERSET, 4-INCH WRIST BLADE HANDLE CONTROL, 0.50 GPM FRONT, STAINLESS STEEL CAPS ON ALL CURBS, HOSE & HOSE BRACKET, CHROME PLATED PRESSURE BALANCE MIXING VALVE (MV-1) UNDER LAVATORY. BASIS OF DESIGN: LAVATORY - MAXIMUM SINGLE HOLE FAUCET. PROVIDE ASSE 1070 LISTED POINT OF USE THERMOSTATIC TYPE FLUSH VALVE - SLOAN SOLIS 8111-1.28-OR.
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4. SINGLE COMPARTMENT, UNDERMOUNTED, STAINLESS STEEL CUBE SINK, 20-INCH X 20-INCH X 8-INCH, CENTER HOLE.
2. DESIGN BASIS:聲 VACUUM.
1. REFER TO DRAWINGS FOR LOCATION OF FLOOR DRAIN.
A. ALL EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING SERVING FIRST FLOOR TO REMAIN UNLESS OTHERWISE NOTED.

B. DEMOLITION SHALL INCLUDE ALL FITTINGS, VALVES, PIPE 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 MATERIAL, THE CONTRACTOR SHALL VERIFY LOCATION OF EXISTING PLUMBING PIPING.

E. CONTRACTOR SHALL REPAIR ALL PENETRATIONS AND HOLES IN EXISTING WALLS WHICH ARE DISCOVERED OR CREATED DURING DEMOLITION ON THE FIFTH FLOOR BACK TO THE ORIGINAL BASE MATERIAL OR BETTER COMPLYING WITH WATER TIGHT OR FIRE RETARDANT CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON THE EXISTING WALL REPAIR.

F. ALL EXISTING CONDITIONS SHOWN IN THIS SET OF DRAWINGS ARE FROM A COMBINATION OF ON-SITE SURVEY AND OLD RECORD DRAWINGS OR CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY EXISTENCE, ROUTING, AND SIZING OF PIPING PRIOR TO COMMENCEMENT OF WORK.
A. ALL EXISTING PLUMBING FIXTURES AND ALL ASSOCIATED PIPING SERVING FIRST FLOOR TO REMAIN UNLESS OTHERWISE NOTEED.

B. DEMOLITION SHALL INCLUDE ALL FITTINGS, VALVES, PIPE 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 MATERIAL, THE CONTRACTOR SHALL VERIFY LOCATION OF EXISTING PLUMBING PIPING.

E. CONTRACTOR SHALL REPAIR ALL PENETRATIONS AND HOLES IN EXISTING WALLS WHICH ARE DISCOVERED OR CREATED DURING DEMOLITION ON THE FIFTH FLOOR BACK TO THE ORIGINAL BASE MATERIAL OR BETTER COMPLYING WITH WATER TIGHT OR FIRE RETARDANT CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON THE EXISTING WALL REPAIR.

F. ALL EXISTING CONDITIONS SHOWN IN THIS SET OF DRAWINGS ARE FROM A COMBINATION OF ON-SITE SURVEY AND OLD RECORD DRAWINGS OR CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY EXISTENCE, ROUTING, AND SIZING OF PIPING PRIOR TO COMMENCEMENT OF WORK.
BASEMENT PIPING PLAN

GENERAL NOTES

1. REFER TO ENLARGED PIPING PLANS AND ISOMETRIC RISER DIAGRAMS FOR PIPING AND FIXTURES.
GENERAL NOTES

1. REFER TO ENLARGED PIPING PLANS AND OR ISOMETRIC ROOM LAYOUTS FOR PIPING AND FIXTURES.
A. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT TO BE SCALLED. 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 REPLACEMENT.

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

G. COORDINATE BALL VALVE PLACEMENT WITH ACCESS PANELS. ALL VALVES SHALL BE INSTALLED IN AN ACCESSIBLE AND SERVICEABLE LOCATION.

H. REFER TO ISOMETRIC RISER DIAGRAMS ON SHEETS PL501 AND PL502 FOR DETAILED PIPE ROUTING AND SIZING.
GENERAL NOTES:
1. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT TO BE SCALLED. FIELD VERIFY ALL DIMENSIONS, PIPE SIZES, AND INVERTS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND LOCATIONS OF ALL PLUMBING FIXTURES AND EQUIPMENT.
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G. COORDINATE VALVE PLACEMENT WITH ACCESS PANELS. ALL VALVES SHALL BE INSTALLED IN AN ACCESSIBLE AND SERVICEABLE LOCATION.

H. REFER TO ISOMETRIC RISER DIAGRAMS ON SHEETS PL50-1 AND PL50-2 FOR DETAILED PIPE ROUTING AND SIZING.

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

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

K. PROVIDE AND INSTALL DOMESTIC HOT WATER RETURN BALANCING VALVE ASSEMBLY. ALL DOMESTIC HOT WATER RETURN CIRCUITS SHALL BE TESTED AND BALANCED BY A THIRD PARTY COMPANY THAT SPECIALIZES IN SUCH SERVICES.

L. CONNECT NEW SANITARY SEWER PIPING TO EXISTING SANITARY SEWER PIPING ABOVE CEILING AT THE APPROXIMATE LOCATION INDICATED.

M. CONNECT NEW SANITARY SEWER VENT TO EXISTING SANITARY VENT PIPING ABOVE CEILING AT THE APPROXIMATE LOCATION INDICATED.

N. REFER TO DETAIL SHEETS FOR DETAILED PIPE ROUTING AND SIZING.
GENERAL NOTES:

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7. COORDINATE BALL VALVE PLACEMENT WITH ACCESS PANELS. ALL VALVES SHALL BE INSTALLED IN AN ACCESSIBLE AND SERVICEABLE LOCATION.

8. REFER TO DIMENSIONAL DIAGRAMS ON SHEETS PLOT AND PLATE FOR DETAIL PIPING ROUTING AND SIZING.

KEY NOTES:

1. CONNECT NEW SANITARY SEWER PIPING TO EXISTING SANITARY SEWER PIPING ABOVE CEILING AT THE APPROXIMATE LOCATION INDICATED.

2. 2" SS-DN.

3. 4" SS-DN.

4. 2" V-DN.

5. 3/4" CA-DN.

6. CONNECT NEW SANITARY VENT PIPING TO EXISTING SANITARY VENT PIPING ABOVE CEILING AT THE APPROXIMATE LOCATION INDICATED.
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H. REFER TO ISOMETRIC RISER DIAGRAM ON THIS SHEET FOR CONTINUATION OF PIPING.

I. CONNECT NEW SANITARY SEWER PIPING TO EXISTING SANITARY SEWER PIPING ABOVE CEILING AT THE APPROXIMATE LOCATION INDICATED.

J. REFER TO ISOMETRIC RISER DIAGRAM ON THIS SHEET FOR CONTINUATION OF PIPING.
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3. CONNECT NEW DOMESTIC COLD WATER RETURN PIPING TO EXISTING DOMESTIC COLD WATER RETURN PIPING ABOVE CEILING AT APPROXIMATE LOCATION INDICATED.

4. REFER TO ISOMETRIC RISER DIAGRAM ON THIS SHEET FOR CONTINUATION OF PIPING.

5. PROVIDE AND INSTALL DOMESTIC HOT WATER RETURN BALANCING VALVE ASSEMBLY. ALL DOMESTIC HOT WATER RETURN CIRCUITS SHALL BE TESTED AND BALANCED BY A THIRD PARTY COMPANY THAT SPECIALIZES IN SUCH SERVICES.

6. WATER HAMMER ARRESTOR (SHOCK ABSORBER). (TYPICAL) REFER TO SCHEDULE ON SHEET P-001 FOR SIZING CRITERIA.

7. BALL VALVE (TYPICAL).
**GENERAL NOTES**

1. GENERAL NOTES ON THIS DRAWING ARE APPLICABLE TO EACH SHEET AND EACH RESPECTIVE MECHANICAL DRAWING.
2. MECHANICAL CONTRACTOR SHALL PROVIDE AUTOMATIC CONTROL SYSTEM. ALL ELECTRICAL WIRING, SWITCHES, AND OUTLETS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL INCLUDE WIRING collapse or FOR THE ELECTRICAL WORK AS REQUIRED BY LOCAL CODES AND CONTRACTS.
3. LOCATE THERMOSTATS 48" ABOVE FINISHED FLOOR OR AS NOTED ON THE PLANS.
4. ALL EQUIPMENT REMOVED FROM THE BUILDING, DURING DEMOLITION, SHALL BE BUNDLED AND SECURED OR RUN IN CONDUIT. NO WIRING STARTER, AND FROM STARTER TO THE EQUIPMENT.
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1. REMOVE OUTDOOR AIR DUCT BACK TO LOCATION INDICATED.
2. REMOVE CEILING MOUNTED FAN COIL UNIT.
3. REMOVE STEAM RADIATOR. CAP PIPING ABOVE CEILING ON GROUND FLOOR.
4. REMOVE EXHAUST DUCTWORK TO SCOPE WORK. EXISTING RI SER TO REMAIN.
1. REMOVE CEILING MOUNTED FCU, CONTROLS, SUPPORT AND CONDENSATION DRAIN.
2. REMOVE STEAM AND CONDENSATE PIPING THAT RUNS VERTICALLY THROUGH THE SPACE. CAP PIPING ABOVE THE GROUND FLOOR CEILING.
3. REMOVE CHILLED AND HOT WATER PIPING BACK TO RISER.
4. CHILLED WATER SUPPLY AND RETURN TO REMAIN. RE-INSULATE AND PROVIDE JACKETING.
BASEMENT FLOOR - NEW - DUCT

GENERAL NOTES

1. FOR LEGEND AND GENERAL NOTES SEE SHEET M-001.

KEY NOTES

1. OVEN HOOD EXHAUST DOWN FROM FIRST FLOOR.
2. EXISTING DOAS UNIT.
3. EXISTING CHILLED WATER PUMPS.
4. EXISTING STEAM TO WATER HEAT EXCHANGER.
5. EXISTING HOT WATER PUMPS.
6. CONNECT TO EXISTING LOUVER. ROUTE OUTDOOR AIR DUCT UP TO 1ST FLOOR.
7. DRYER EXHAUST. DUCT SHALL TERMINATE OUTSIDE THE BUILDING AND BE EQUIPPED WITH A BACKDRAFT DAMPER. DUCT SHALL NOT BE INSTALLED OR CONNECTED WITH SHEET METAL SCREWS OR OTHER FASTENERS THAT WILL OBSTRUCT THE EXHAUST FLOW.
8. PROVIDE NEW VFD FOR EXISTING HOT WATER PUMP.
9. PROVIDE PLUMBING 1/2 UP TO 1ST FLOOR.
10. EXISTING AIR COOLED CHILLER.
11. PROVIDE INSULATION ON THE OUTSIDE OF NEW LOUVER. LOUVER SHALL BE FULL SIZE OF LOUVER AND A MINIMUM OF 16" DEEP. INSULATED WITH RIGID INSULATION.

MH100

CONSTRUCTION DOCUMENTS
FIRST FLOOR NEW WORK PLAN - PIPING

GENERAL NOTES:

A. GARAGE AND GENERAL NOTES SHEET # 031
B. VICTOR CONDENSATE DRAIN FOR ALL FLOORS
C. PROVIDE AUXILIARY DRAIN PAN FOR CONCEALED FCU
D. TYPICAL PCG HANDLER AND "T" CHILLED WATER AND HOT WATER

KEY NOTES:

1. CONNECT TO EXISTING CHILLED AND WARM WATER
2. TOP DECREMENT BOX USE BOTH HOLES. COORDINATE WITH PLUMBING DRAWINGS FOR EXISTING LOCATION
3. PIPE STATIONARY WORK DOWN THROUGH FLOOR TO LOWER FLOOR. INSTALL TO FLOOR BARRIER.
4. INSTALL HOT WATER DIFFERENTIAL PRESSURE SENSOR ON RISER ABOVE 1ST FLOOR TAKE-OFF.
5. ROUTE CONDENSATE DRAIN DOWN WALL. COORDINATE WITH PLUMBING DRAWINGS FOR DRAIN LOCATION.
6. INSTALL HOT WATER DIFFERENTIAL PRESSURE SENSOR ON RISER ABOVE 1ST FLOOR TAKE-OFF.
FLEXIBLE DUCT SHALL NOT SURFACE. PROVIDE O.B. DAMPER 45° RIGID RADIUS ELBOW IN ONE FLEX SEGMENT. THE MAXIMUM NUMBER OF FLEX DUCT TURNS SHALL NOT EXCEED 45°.

NOTE: DIFFUSER W/ INSULATION COMPLETELY COVERING METAL EXCEED 5 LINEAR FEET.

DUCT ACCESS PANEL SUPPORTED FROM MAIN SUPPLY DUCT STRUCTURE.

AIR FLOW MIN 4 INCH BRANCH SUPPLY DUCT SUPPORTED FROM STRUCTURE DAMPER OPPOSED BLADE BALANCING TURNING VANES DOUBLE WALL AIR FLOW.

ROUND TAKE-OFF RECTANGULAR TO SEAL CONNECTION 45 DEGREE WITH GASKET.

DIFFUSERS, GRILLES & REGISTERS UNLESS OTHERWISE INDICATED.

30° MAX 8'-0" CAULKING INSULATION FILL VOID W/ ACOUSTICAL DUCT TIGHT TO WALL ALL AROUND 1-1/2"x1-1/2"x1/8" ANGLE EXISTING WALL. REFER TO ARCHITECTURAL PLANS FOR WALL CONSTRUCTION.

O/A LOUVER IN THIS AREA CAULK ALL JOINTS WATER-TIGHT AS POSSIBLE.

PLENUM AS HIGH CONNECT DUCT TO BACK OR TOP CONNECT DUCT IF POSSIBLE SLOPE DUCT UP SCREEN 1/2"MESH OUTSIDE (MINIMUM) DOWN 4" PER FOOT TO PITCH BOTTOM OF PLENUM BEND OVER BOTTOM BLADE.

TYPICAL SYSTEM AND MATERIAL INSTALLATION.

VIBRATION ISOLATORS TRANSITION FLEXIBLE CONNECTION 3/8" THREADED ROD BELT DRIVE MOTOR SEE FLOOR PLAN FOR DUCT SIZES.

BENCH CANOPY HOOD DETAIL CANOPY HOOD - VOLUME CONTROL - DAMPER.

DUCT CONNECTION TO WATERPROOF LOUVER CANOPY HOOD - CHANNEL (PLC).

ACOUSTICAL CAULKING OF DUCT.
### Schedule of Equipment

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**Notes:**

- 1: EXISTING PUMP TO BE REBALANCED. CAPACITY SHOWN BASED ON EXISTING CONDITIONS.
- 2: SUBMIT TACO B&G MAX NC MAX. LOSS SERIES NO.
- 3: SUBMIT TACO B&G SERIES NO.
- 4:  EXHAUST ARMS TO BE CONTROLLED BY SPACE MOUNTED SWITCH
- 5: REFER TO HOOD DETAIL DRAWINGS
- 6:  PROFESSIONAL SEAL
- 7:  CONSTRUCTION DOCUMENTS
- 8:  PRIVATE樂包Phone: 2028-3303
**NOTES**

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**EXHAUST FAN CONTROL SCHEMATIC (EF-1)**

- The exhaust fan shall be controlled by a manual switch located in the space. (Switch shall be rotary timer 0-0 minutes).
- The exhaust fan shall be turned on/off by the DDC system at the following conditions:
  1. Space temperature not at setpoint for 30 minutes (adjustable) or longer.
  2. Smoke detectors detected smoke.
  3. Float switch mounted in the cooling coil auxiliary drain pan.
  4. Freezing protection thermostat.

**EXHAUST FAN CONTROL SCHEMATIC (EF-2)**

- The exhaust fan shall be controlled by a manual switch located in the space. (Switch shall be rotary timer 0-0 minutes).
- The exhaust fan shall be turned on/off by the DDC system at the following conditions:
  1. Space temperature not at setpoint for 30 minutes (adjustable) or longer.
  2. Smoke detectors detected smoke.
  3. Float switch mounted in the cooling coil auxiliary drain pan.
  4. Freezing protection thermostat.

**EXHAUST FAN CONTROL SCHEMATIC (EF-3)**

- The exhaust fan shall be controlled by a manual switch located in the space. (Switch shall be rotary timer 0-0 minutes).
- The exhaust fan shall be turned on/off by the DDC system at the following conditions:
  1. Space temperature not at setpoint for 30 minutes (adjustable) or longer.
  2. Smoke detectors detected smoke.
  3. Float switch mounted in the cooling coil auxiliary drain pan.
  4. Freezing protection thermostat.

**MAKE UP AIR UNIT CONTROL SCHEMATIC**

- The make up air unit shall be controlled by the DDC system.
- The make up air unit shall be turned on/off by the DDC system at the following conditions:
  1. Space temperature not at setpoint for 30 minutes (adjustable) or longer.
  2. Smoke detectors detected smoke.
  3. Float switch mounted in the cooling coil auxiliary drain pan.
  4. Freezing protection thermostat.

**FAN COIL UNIT CONTROL SCHEMATIC**

- The fan coil unit shall be controlled by the DDC system.
- The fan coil unit shall be turned on/off by the DDC system at the following conditions:
  1. Space temperature not at setpoint for 30 minutes (adjustable) or longer.
  2. Smoke detectors detected smoke.
  3. Float switch mounted in the cooling coil auxiliary drain pan.
  4. Freezing protection thermostat.

**EXHAUST FAN CONTROL SCHEMATIC (EF-1)**

- The exhaust fan shall be controlled by a manual switch located in the space. (Switch shall be rotary timer 0-0 minutes).
- The exhaust fan shall be turned on/off by the DDC system at the following conditions:
  1. Space temperature not at setpoint for 30 minutes (adjustable) or longer.
  2. Smoke detectors detected smoke.
  3. Float switch mounted in the cooling coil auxiliary drain pan.
  4. Freezing protection thermostat.

**EXHAUST FAN CONTROL SCHEMATIC (EF-2)**

- The exhaust fan shall be controlled by a manual switch located in the space. (Switch shall be rotary timer 0-0 minutes).
- The exhaust fan shall be turned on/off by the DDC system at the following conditions:
  1. Space temperature not at setpoint for 30 minutes (adjustable) or longer.
  2. Smoke detectors detected smoke.
  3. Float switch mounted in the cooling coil auxiliary drain pan.
  4. Freezing protection thermostat.

**EXHAUST FAN CONTROL SCHEMATIC (EF-3)**

- The exhaust fan shall be controlled by a manual switch located in the space. (Switch shall be rotary timer 0-0 minutes).
- The exhaust fan shall be turned on/off by the DDC system at the following conditions:
  1. Space temperature not at setpoint for 30 minutes (adjustable) or longer.
  2. Smoke detectors detected smoke.
  3. Float switch mounted in the cooling coil auxiliary drain pan.
  4. Freezing protection thermostat.

**HOT WATER PUMP CONTROL SCHEMATIC**

- The hot water pump shall be controlled by the DDC system.
- The hot water pump shall be turned on/off by the DDC system at the following conditions:
  1. Space temperature not at setpoint for 30 minutes (adjustable) or longer.
  2. Smoke detectors detected smoke.
  3. Float switch mounted in the cooling coil auxiliary drain pan.
  4. Freezing protection thermostat.

**MAKE UP AIR UNIT CONTROL SCHEMATIC**

- The make up air unit shall be controlled by the DDC system.
- The make up air unit shall be turned on/off by the DDC system at the following conditions:
  1. Space temperature not at setpoint for 30 minutes (adjustable) or longer.
  2. Smoke detectors detected smoke.
  3. Float switch mounted in the cooling coil auxiliary drain pan.
  4. Freezing protection thermostat.

**FAN COIL UNIT CONTROL SCHEMATIC**

- The fan coil unit shall be controlled by the DDC system.
- The fan coil unit shall be turned on/off by the DDC system at the following conditions:
  1. Space temperature not at setpoint for 30 minutes (adjustable) or longer.
  2. Smoke detectors detected smoke.
  3. Float switch mounted in the cooling coil auxiliary drain pan.
  4. Freezing protection thermostat.

**EXHAUST FAN CONTROL SCHEMATIC (EF-1)**

- The exhaust fan shall be controlled by a manual switch located in the space. (Switch shall be rotary timer 0-0 minutes).
- The exhaust fan shall be turned on/off by the DDC system at the following conditions:
  1. Space temperature not at setpoint for 30 minutes (adjustable) or longer.
  2. Smoke detectors detected smoke.
  3. Float switch mounted in the cooling coil auxiliary drain pan.
  4. Freezing protection thermostat.

**EXHAUST FAN CONTROL SCHEMATIC (EF-2)**

- The exhaust fan shall be controlled by a manual switch located in the space. (Switch shall be rotary timer 0-0 minutes).
- The exhaust fan shall be turned on/off by the DDC system at the following conditions:
  1. Space temperature not at setpoint for 30 minutes (adjustable) or longer.
  2. Smoke detectors detected smoke.
  3. Float switch mounted in the cooling coil auxiliary drain pan.
  4. Freezing protection thermostat.