

**NOTES**

**FIRE PROTECTION**

ALL FIRE PROTECTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STANDARDS, RULES AND REGULATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND ALL "AUTHORITIES HAVING JURISDICTION"

ALL MATERIALS AND EQUIPMENT TO BE USED IN THE INSTALLATION SHALL BE "LISTED".

"LISTED" FIRE PROTECTION MATERIALS AND EQUIPMENT ARE THOSE INCLUDED IN A LIST PUBLISHED BY AN ORGANIZATION ACCEPTABLE TO THE "AUTHORITIES HAVING JURISDICTION".

"AUTHORITIES HAVING JURISDICTION" ARE THE ORGANIZATIONS RESPONSIBLE FOR APPROVING EQUIPMENT, MATERIALS, INSTALLATION AND PROCEDURES. IN THIS PROJECT THE "AUTHORITIES HAVING JURISDICTION" ARE:

- A- PUERTO RICO FIRE PROTECTION DEPARTMENT (SERVICIO DE BOMBEROS DE PUERTO RICO).
- B- INSURANCE COMPANY.
- C- DESIGNER

OTHER TYPES OF "LISTED" STEEL PIPE OR TUBE, JOINING AND FITTINGS MAY BE USED FOR THE SPRINKLER DISTRIBUTION. IF LIGHT WEIGHT (SCHEDULE 10) PIPE IS USED, ONLY ROLLED GROOVE FITTINGS ARE ALLOWED.

FIRE RISERS SHALL BE AS INDICATED IN DETAILS. ANY ADDITIONAL REQUIREMENTS OF THE "AUTHORITIES HAVING JURISDICTION" SHALL BE INCLUDED. SEE SPECIFICATION FOR MORE INFORMATION.

THE COMPLETE FIRE PROTECTION SYSTEM SHALL BE HYDRAULICALLY DESIGNED IN ACCORDANCE WITH THE FIRE PROTECTION SCHEDULE.

CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO ARCHITECT / ENGINEER FOR APPROVAL PRIOR TO INSTALLATION SHOP DRAWING AND HYDRAULIC CALCULATIONS SUBMITTED SHALL BE SEALED & SIGNED BY A LICENSED ENGINEER IN THIS JURISDICTION.

THE CONTRACTOR SHALL COORDINATE WITH OWNER THE EXACT LOCATION OF FIRE EXTINGUISHERS. SEE FIRE EXTINGUISHER SCHEDULES FOR DETAILS.

ALL FIRE PROTECTION PIPING, INCLUDING FIRE RISER AND SPRINKLER PIPING SHALL BE PRIMED AND PAINTED RED.

MAXIMUM FLOOR AREA FOR EXTINGUISHERS 1250 SQ.FT.

CONTRACT SHALL PREPARE ACCURATE AS-BUILT OF ANY EXISTING FIRE PROTECTION DISTRIBUTION TO BE PART OF THE HYDRAULIC CALCULATIONS.

**SEISMIC RESTRAINT**

CONTRACTOR SHALL PROVIDE SEISMIC RESTRAINTS TO (BUT NOT BE LIMITED TO) THE FOLLOWING MECHANICAL ELEMENTS:

- PIPING
- PUMPS

ALL EQUIPMENT, PIPING AND DUCTWORK SHALL BE RESTRAINED TO RESIST SEISMIC FORCES. RESTRAINTS SHALL MAINTAIN MECHANICAL EQUIPMENT, PIPING OR DUCT WORK IN A CAPTIVE POSITION. RESTRAINT DEVICES SHALL BE DESIGNED AND SELECTED TO MEET SEISMIC REQUIREMENTS AS DEFINED IN THE LATEST ISSUE OF UNIFORM BUILDING CODE. THIS SITE IS CLASSIFIED AS SEISMIC ZONE 3. HOWEVER, THE MINIMUM HORIZONTAL RESTRAINT CAPABILITY SHALL BE 0.5g HORIZONTAL AND 0.33 VERTICAL. LIFE SAFETY EQUIPMENT SUCH AS SPRINKLER PIPING SHALL BE DESIGNED TO RESIST A MINIMUM 1.0g HORIZONTAL LOAD AND 0.67g VERTICAL LOAD. CONTRACTOR MUST PROVIDE SUBMITTALS FOR SEISMIC RESTRAINT. A SEISMIC DESIGN ERRORS AND OMISSIONS INSURANCE CERTIFICATE MUST ACCOMPANY SUBMITTALS FROM THE SEISMIC ENGINEER. MANUFACTURERS PRODUCT LIABILITY INSURANCE CERTIFICATES ARE NOT ACCEPTABLE. CONTRACTOR MUST PROVIDE SEISMIC CALCULATIONS, SIGNED BY A QUALIFIED LICENSED PROFESSIONAL ENGINEER SHOWING ADEQUACY SIZING AND TYPE.

**GENERAL STRUCTURAL NOTES FOR MECHANICAL/ELECTRICAL COMPONENTS**

1. THE FOLLOWING NOTES APPLY TO ALL DRAWINGS, UNLESS OTHERWISE NOTED. (IF EXISTS, THE MOST STRINGENT BETWEEN THE STRUCTURAL DRAWINGS GENERAL NOTES/DETAILS AND THESE NOTES SHALL TAKE PRECEDENCE)
2. BEFORE AND DURING CONSTRUCTION, THE CONTRACTOR SHALL CHECK THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, EQUIPMENT AND ALL PROJECT RELATED DRAWINGS TO COORDINATE DIMENSIONS, PLACING OF SLEEVES, INSERTS, OPENINGS, ANCHORAGES, ETC.
3. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE MECHANICAL ENGINEER OF DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.
4. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE MECHANICAL/STRUCTURAL ENGINEER OR OWNERS REPRESENTATIVE OF ANY CONDITION WHICH, IN HIS/HER OPINION, MIGHT ENDANGER THE STABILITY OF THE EQUIPMENT OR SUPPORTING STRUCTURE OR CAUSE ANY DISTRESS.
5. SPECIFIC NOTES & DETAILS SHALL TAKE PRECEDENCE OVER THESE NOTES & TYPICAL DETAILS.
6. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THE NOTES OR THE DRAWINGS.
7. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING & SHORING FOR ALL EQUIPMENTS AND COMPONENTS OR AS REQUIRED FOR THEIR STRUCTURAL STABILITY DURING ALL PHASES OF CONSTRUCTION.
8. NOT ALL NOTES INCLUDED HEREIN ARE PART OF THE ORIGINAL SCOPE OF WORK BUT SHALL BE USED IN THE EVENT OF CHANGES OF ANY ADDITIONAL WORK REQUIRED.

**REFERENCES:**

1. THE FOLLOWING DOCUMENTS, THEIR COMMENTARIES AND THE STANDARDS REFERENCED THEREIN, SHALL APPLY TO DESIGN, FABRICATION AND CONSTRUCTION PRACTICES TO BE ADHERED TO WITH REGARD TO THE WORK SHOWN ON THE DRAWINGS. (IF EXISTS, STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE)

**A) STRUCTURAL STEEL**

- 1) AISC MANUAL OF STEEL CONSTRUCTION
- 2) AISC MANUAL OF STEEL CONSTRUCTION, VOL. II CONNECTIONS
- 3) AWS STRUCTURAL WELDING CODE

**B) CODES AND DESIGN STANDARDS FOR CONCRETE COMPONENTS**

- 1) STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE. (ACI 301-05).
- 2) BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-08) AND COMMENTARY (ACI 318R-08).
- 3) 2018 PUERTO RICO BUILDING CODE, PRBC 2018
- 4) 2018 INTERNATIONAL BUILDING CODE, IBC 2018
- 5) MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-05)

**MATERIALS:**

1. THE FOLLOWING SPECIFICATIONS APPLY TO THE STRUCTURAL STEEL WORK:

- A) STEEL SHAPES ASTM A992/572, FY=50 KS
- B) STEEL PLATES, ANGLES AND BARS. ASTM A-36
- C) TUBULAR SECTIONS, GRADE B ASTM A-500
- D) STEEL PIPE - FOR STRUCTURAL USE ONLY ASTM A-53 TYPE E OR S
- E) HIGH STRENGTH BOLTS ASTM A-325
- G) THREADED RODS ASTM A36
- H) ANCHOR RODS ASTM A-449
- I) WELD FILLER MATERIAL, E70XX ELECTRODES
- J) EXPANSION ANCHORS KWIK BOLT 3 BY HILTI ZINC COATED OR SS AS REQ'D
- K) EPOXY FOR EMBEDMENT FOR CONCRETE - HVA ADHESIVE SYSTEM FOR MASONRY - HIT HY20 SYSTEM

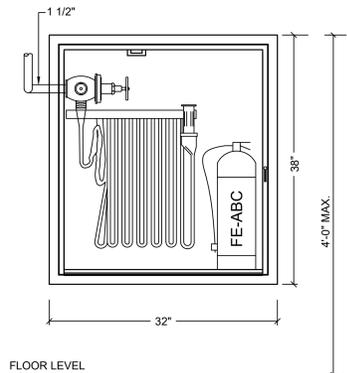
**FIRE PROTECTION PIPING SCHEDULE**

SPECIFICATION	SERVICE	MATERIAL	SCHEDULE	CLASS OR TYPE	SPECIFICATION	COATING OR LINING		JOINT & FITTINGS		
						TYPE	SPECIFICATION	TYPE	JT. MAT.	SPECIFICATION
PS-1	FIRE DISTRIBUTION PIPE AND STAND PIPE ABOVE GRADE LARGER THAN 3"	CARBON STEEL	40	-	ASTM A-53	HIGH PERFORMANCE	ASTM A-120	MECHANICAL COUPLING	CARBON STEEL	ASTM A-234 WPB ANSI B 16.9

PIPE SHALL BE PAINTED RED. IN CASE THE PIPE IS EXPOSED TO VIEW REFER TO ARCHITECTURAL DRAWINGS FOR FINAL COLOR OF PIPE.

**SPRINKLER LEGEND**

LEGEND	DESCRIPTION	SIMILAR TO
☉	PENDENT SPRINKLER FOR LIGHT AND ORDINARY GROUP 1 HAZARDS AREAS	RELIABLE MODEL F156 STANDARD RESPONSE PENDENT SPRINKLER HEAD, K-FACTOR 5.6,



**FIRE HOSE CABINET FHC-A MOUNTING DETAIL**

NTS



**TALLER LARJAS, LLC**  
22185 QUEEN ST CHRISTIANED VJ 00820  
340.277.9191, info@tallerlarjas.com

**ARCHITECT**



**STRUCTURAL ENGINEERS**



**MEP ENGINEERS**



**THEATRE CONSULTANTS COLLABORATIVE**  
6600 Minor Hill Court, Chapel Hill NC 27516  
919.309.0027, www.theatrecc.com

**THEATER CONSULTANTS**

**CREATIVE ACOUSTICS, LLC**



**Creative Acoustics, LLC**  
1032 Corte Agulla, Las Cruces, NM 88011  
203.246.2440, www.Creative-Acoustics.com

**ACOUSTIC CONSULTANT**

**ALEXANDER THEATER SAFE RM & BUILDING WIND RETROFIT PROJECT**

23 KING STREET, 22 & 23 MARKET STREET, 388 COMPANY STREET,  
38A COMPANY STREET, 36 COMPANY STREET & 37 COMPANY STREET  
ADDRESS

**St. Croix Foundation**  
For Community Development  
1025 MARKET ST., CHRISTIANSTED, VI 00820

**CLIENT**

21192 5/2025  
PROJECT NUMBER DATE

DRAFTED BY STAMP

**REVISIONS:**

08/11/25 DD (UPDATE) L.F.M.

**NOTES:**

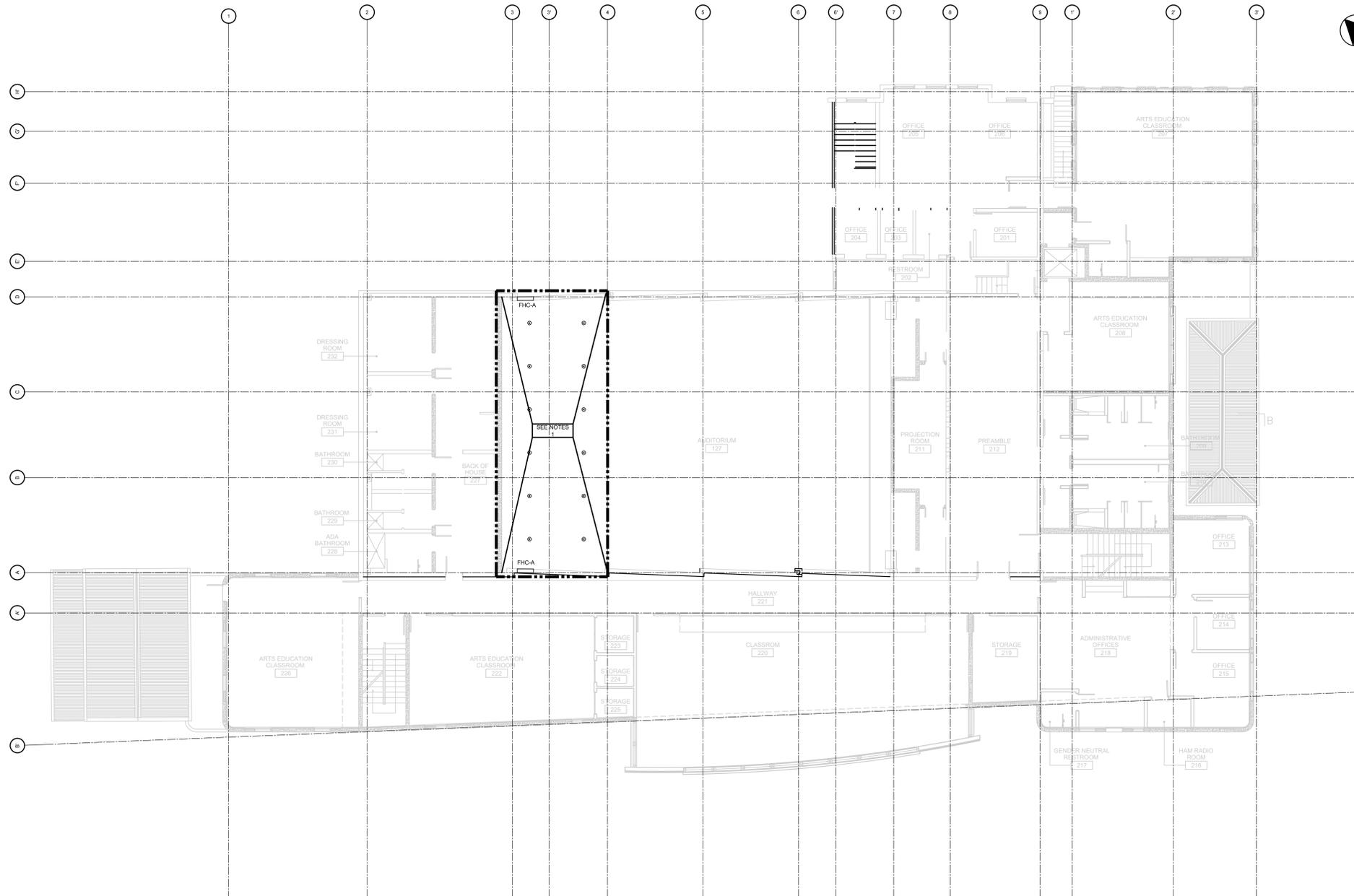
**SCALE**

**FIRE PROTECTION NOTES, SCHEDULES & DETAILS**

**SHEET TITLE**

FP1-00

**SHEET NUMBER**



FIRE PROTECTION - SECOND FLOOR PLAN

SCALE: 1/8"=1'-0"

- NOTES:
1. ORDINARY HAZARD GROUP 2 DENSITY SHALL BE 0.2 GPMSQFT OVER HYDRULICALLY MOST REMOTE CALCULATED AREA OF 1,500 SQFT.
  2. CONTRACTOR SHALL SUBMIT ALL HYDRAULIC & SEISMIC CALCULATIONS, SHOP DRAWINGS AND EQUIPMENT SUBMITTAL FOR APPROVAL.
  3. CONTRACTOR SHALL FOLLOW NFPA 13 (LATEST EDITION) FOR FIRE PROTECTION SYSTEM INSTALLATION.
  4. SPRINKLER HEADS ARE SHOWN FOR REFERENCE ONLY. FINAL LOCATION OF SPRINKLER HEADS SHALL BE INDICATED IN SHOP DRAWINGS.

**WORK LIMITED TO  
 OUTLINED AREA ONLY**

DATE: Wednesday, June 11, 2025 2:25 PM USER: Gersonde Vega Form: FILE: C:\DWG\WORKSPACE\2025\1924\FP2-02.dwg



NOTES	
<b>GENERAL</b>	
1.	THE MECHANICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL ELECTRICAL CONTROLS, SAFETY SWITCHES AND ACCESSORIES NOT INDICATED IN THE ELECTRICAL DRAWINGS AND NECESSARY FOR THE PROPER OPERATION OF THE EQUIPMENT IN ACCORDANCE WITH THE MECHANICAL EQUIPMENT MANUFACTURERS' RECOMMENDATIONS AND THE NATIONAL ELECTRIC CODE.
2.	THE MECHANICAL CONTRACTOR SHALL PERFORM ALL WIRING AND CONNECTION (POWER AND CONTROL) NOT INDICATED IN THE ELECTRICAL DRAWINGS AND NECESSARY FOR THE PROPER OPERATION OF THE MECHANICAL EQUIPMENT IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
3.	THE CONTRACTOR SHALL TAKE EVERY PRECAUTION IN ORDER TO MINIMIZE OR ELIMINATE THE TRANSMISSION OF NOISE OR VIBRATION FROM THE EQUIPMENT, PIPING SYSTEM OR DUCT SYSTEM TO THE CONDITIONED SPACE.
4.	ALL EQUIPMENT, MATERIALS AND ACCESSORIES SHALL BE AS PER THE INDICATED SPECIFICATION AND/OR MANUFACTURER MODEL OR CATALOG NUMBER.
5.	SUBSTITUTION OF SPECIFIED EQUIPMENT, MATERIALS AND ACCESSORIES REQUIRES PRIOR APPROVAL BY THE ENGINEER OF RECORD AND/OR THE OWNER'S REPRESENTATIVE.
6.	UNLESS OTHERWISE NOTED IN DRAWINGS AND/OR SPECIFICATIONS ALL EQUIPMENT AND ACCESSORIES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
7.	UNLESS OTHERWISE NOTED FOR ALL EQUIPMENT INSIDE BUILDING AND ON LARGER CONCRETE SLABS OUTSIDE BUILDING, A 2-INCH THICK CONCRETE HOUSEKEEPING PAD SHALL BE PROVIDED.
8.	ALL PENETRATIONS THROUGH ROOF FOR DUCTS AND/OR PIPES ROW SHALL BE PROVIDED WITH FLASHING AS PER APPLICABLE DETAILS OF THE NATIONAL ROOFING CONTRACTOR ASSOCIATION. MATERIALS SHALL BE COMPATIBLE WITH ROOF ASSEMBLY AND WITH PIPING OR DUCT SYSTEM.
9.	EQUIPMENT SUPPORT LEGS INSTALLED ON ROOF SHALL BE PROVIDED WITH FLASHING AS PER DETAILS OF THE NATIONAL ROOFING CONTRACTOR ASSOCIATION. MATERIALS SHALL BE COMPATIBLE WITH ROOF ASSEMBLY.
10.	ALL DIMENSIONS SHALL BE FIELD CHECKED BY CONTRACTOR PRIOR TO COMMENCING ANY WORK.
11.	IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCURE ALL NECESSARY INFORMATION DURING THE BIDDING PERIOD IN ORDER TO FURNISH ALL MISCELLANEOUS MATERIAL, ACCESSORIES AND LABOR, EITHER SHOWN OR NOT SHOWN ON THE DRAWINGS AND REQUIRED TO PERFORM THE SET-UP, INSTALLATION, TESTING AND START-UP OF OWNER-SUPPLIED EQUIPMENT, ALL IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS.
12.	CONTRACTOR SHALL PROVIDE AN "AS IS" BALANCING REPORT OF THE SUPPLY (AHU-1, AHU-2), EXHAUST FANS (LABORATORY FANS), CHILLED WATER SYSTEM, REHEAT WATER, VACUUM AND COMPRESSED AIR SYSTEM. THE FOLLOWING PARAMETERS SHALL BE CONSIDERED: A. SUPPLY TEMPERATURE B. RETURN TEMPERATURE C. SUPPLY PRESSURE D. RETURN PRESSURE E. FLOW F. FAN/PUMP MOTOR OPERATING OUTPUT (HP) BALANCING REPORT SHALL INCLUDE VALUES FROM MAIN SYSTEMS AND ACTUAL CONNECTED LOAD IN ALL FLOORS.
13.	CONTRACTOR SHALL BALANCE SUPPLY, EXHAUST, CHILLED WATER AND REHEAT WATER SYSTEMS.
<b>VENTILATION AND AIR CONDITIONING</b>	
ALL DUCTWORK FOR THE HVAC SYSTEMS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE HVAC DUCT CONSTRUCTION STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC., SMACNA (LATEST EDITION).	
DUCTS SHALL BE RECTANGULAR OR ROUND AS INDICATED IN THE DRAWINGS IN ACCORDANCE WITH THE DUCTWORK SCHEDULE.	
ALL INDICATED SECTIONS OF DUCT SHALL BE TESTED FOR LEAKAGE AT THE INDICATED PRESSURE CLASS PRIOR TO INSULATION INSTALLATION.	
PRESSURIZATION, LEAKAGE AND INFILTRATION TESTS SHALL BE PERFORMED PER SMACNA STANDARDS.	
UNLESS OTHERWISE SPECIFIED, DUCT MATERIAL SHALL BE: G.S. LOW CARBON, GALVANIZED STEEL OR LOCK-FORMING QUALITY ASTM A525.	
IN ORDER TO OBTAIN THE REQUIRED DUCT SEAL CONNECTIONS BETWEEN DUCT SECTIONS AND BETWEEN THE DUCT AND FITTINGS THE DUCT SYSTEM CAN BE SEALED WITH HEAT TAPE, RAYCHEM THERMO FIT DUCT BANDS AS MANUFACTURED BY RAYCHEM CORP., 300 CONSTITUTION DRIVE, MENLO PARK, CALIFORNIA 94025, OR APPROVED EQUAL.	
AUTOMATIC CONTROL DAMPERS SHALL BE OPPOSED BLADE (O.B.D.) TYPE EXTRUDED ALUMINUM CONSTRUCTION, RUSKIN MFG. CO. TYPE CD-50 OR APPROVED EQUAL.	
MANUAL BALANCING DAMPERS SHALL BE OPPOSED BLADE (O.B.D.) TYPE EXTRUDED ALUMINUM CONSTRUCTION, RUSKIN MFG. CO. TYPE CD-50 OR APPROVED EQUAL.	
DUCT WORK SUPPORTS SHALL COMPLY WITH SMACNA RECOMMENDATIONS FOR TYPE OF DUCT CONSTRUCTION. SUBMIT SHOP DRAWING FOR APPROVAL.	
IN ALL INDICATED AREAS OPERATING AS INDEPENDENT AIR PLENUMS THE PERIMETRAL WALL AND PARTITIONS WHICH DEFINE THE AREA MUST BE EXTENDED ALL THE WAY UP TO THE CEILING AND PERFECTLY SEALED. ANY PIPE OR DUCT ENTERING OR PASSING THROUGH THIS AREA MUST BE PERFECTLY SEALED AT POINTS WHERE THEY PERFORM THE LIMITING PARTITION.	
ALL DUCT AND PIPING PENETRATIONS INTO THE LOW HUMIDITY AREA SHALL BE SEALED. PROVIDE A METAL SLEEVE INTEGRATED WITH THE WALL OR CEILING. SEAL WITH ONE PART POLYURETHANE SEALANT BETWEEN SLEEVES AND DUCT OR PIPE. PROVIDE METAL SCUTCHION WHEN INDICATED. ALL PENETRATIONS SHALL BE APPROVED BY THE OWNER REPRESENTATIVE.	
CANVAS CONNECTIONS SHALL BE NEOPRENE-COATED GLASS FABRIC AS MANUFACTURED BY VENT FABRIC (VENT GLASS), DURO DYNE CORP., OR EQUAL, MOUNTED ON ANGLE FRAMES SECURELY FASTENED TO DUCTS AND EQUIPMENT WITH ACCESSORIES TO PREVENT COLLAPSE UNDER POSITIVE OR NEGATIVE PRESSURE. CANVAS CONNECTIONS SHALL BE AIR TIGHT (NO LEAKAGE OR INFILTRATION) AT INDICATED PRESSURE CLASS.	
NO ELBOW SHALL BE MADE WITH AN INSIDE RADIUS OF LESS THAN THE WIDTH OF THE DUCT. SHOULD ANY TURN BE NECESSARY WITH INSIDE RADIUS LESS THAN 3X DEPTH OF THE DUCT, THEY MUST BE FITTED WITH DOUBLE THICKNESS MULTIPLE VANES.	
FLEXIBLE DUCT FOR COLD AIR, WARM AIR AND NON CORROSIVE FLAMES FOR UP TO 1400 POSITIVE PRESSURE AND 6000 FPM VELOCITY, SHALL BE A FACTORY FABRICATED ASSEMBLY, THERMOFLEX AS MANUFACTURED BY AUTOMATION INDUSTRIES INC. OR APPROVED EQUAL. TYPE S-11L NON-INSULATED FOR EXPOSED DUCTS INSIDE CONDITIONED AREAS. TYPE M-KH INSULATED FOR CONCEALED SPACES AND OUTSIDE CONDITIONED AREAS. PROVIDE STAINLESS STEEL WORM DRIVE CLAMPS AND STRAPS. MAKE CONNECTIONS AS PER DUCT MANUFACTURER'S INSTALLATION INSTRUCTIONS.	
ROUND FLEXIBLE DUCTING TO TERMINAL DIFFUSERS SHALL BE BETWEEN 3' AND 4FT LENGTH AND SAME SIZE OF DIFFUSER INLET. PROVIDE INSULATED ROUND RIGID DUCTS SECTIONS WHEN REQUIRED.	
FLEXIBLE DUCTING SHALL BE A FACTORY FABRICATED ASSEMBLY INCLUDING: INNER SLEEVE, INSULATION (IC < 0.23) AND OUTER MOISTURE BARRIER. FLEXIBLE DUCTING SHALL COMPLY WITH UL 181 AND 98A 98A. DUCTING SHALL BE THERMOFLEX M-KC OR APPROVED EQUAL. PROVIDE WORM DRIVE STAINLESS STEEL CLAMPS AT BOTH CONNECTION ENDS.	
DUCT COLLARS BEHIND GRILLES, REGISTERS AND CEILING OUTLETS SHALL BE PAINTED INSIDE WITH TWO COATS OF FLAT BACK PAINT.	

NOTES	
<b>GRAVITY SUPPORT, SEISMIC AND WIND RESTRAINT REQUIREMENTS FOR ALL MECHANICAL/ELECTRICAL COMPONENTS</b>	
CONTRACTORS SHALL PROVIDE, FACILITATE AND COORDINATE WITH ALL OTHER CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE PROJECT, THE GRAVITY SUPPORT AND THE WIND AND SEISMIC RESTRAINTS TO ALL MECHANICAL, ELECTRICAL, ANCILLARY EQUIPMENT, ASSOCIATED DUCTWORK AND PIPING, ALL SUPPORTING BASES, VIBRATION ISOLATORS AND SPRINGS, AND SUPPORTING STRUCTURES NOT CONSTRUCTED AS PER THE CMA DRAWINGS AND ALL THE ATTACHMENTS ASSEMBLIES SHALL MEET WIND AND SEISMIC REQUIREMENTS.	
MECHANICAL, PIPING, AND FIRE PROTECTION EQUIPMENT AND/OR COMPONENTS SHALL COMPLY WITH THE FAMILY OF PUERTO RICO CODES 2018 AND THEIR REFERENCE STANDARDS AS APPLICABLE TO THE WORK CONTAINED IN THE CONTRACT DOCUMENTS.	
COMPLIANCE SHALL INCLUDE, BUT IS NOT LIMITED TO STRENGTH, STIFFNESS, SERVICEABILITY AND OTHER OPERATIONAL REQUIREMENTS INCLUDED IN OR AS A CONSEQUENCE OF THE WORK SHOWN ON THE CONTRACT DOCUMENTS.	
WIND LOAD COMPLIANCE IS NOT REQUIRED FOR ANY EQUIPMENT OR COMPONENTS INSIDE AN ENCLOSED BUILDING OR STRUCTURE.	
WIND LOAD COMPLIANCE SHALL BE DETERMINED FOR RISK CATEGORY II. THE BASIC DESIGN WIND SPEED, V IS 164 MPH, AND THE ALLOWABLE STRESS DESIGN WIND SPEED VASD IS 127 MPH (PROJECT LOCATION IN SAN JUAN). SPEEDS ARE 3-SEC GUST AT 33 FEET ABOVE GROUND LEVEL.	
THE WIND EXPOSURE CATEGORY IS D.	
THE INTERNAL PRESSURE COEFFICIENT IS +/- 0.18 FOR THE BUILDING.	
WIND LOAD DESIGN SHALL BE CARRIED OUT USING ASCE 7-16.	
SEISMIC LOAD COMPLIANCE IS MANDATORY FOR ALL EQUIPMENT AND COMPONENTS SHOWN IN THE CONTRACT DOCUMENTS. THE SEISMIC GROUND MOTION VALUES ARE AS FOLLOWS: THE MAPPED ACCELERATION PARAMETERS ARE: S1=0.8, SD=39 (SAN JUAN) SITE CLASS D, UNLESS THE GEOTECHNICAL REPORT FOR THE PROJECT LOCATION INDICATES OTHERWISE.	
THE SEISMIC DESIGN CATEGORY IS D.	
THE SEISMIC IMPORTANCE FACTOR IS 1 FOR RISK CATEGORY II FOR THE BUILDING. FOR NON-STRUCTURAL COMPONENTS, REFER TO CHAPTER 13 OF ASCE 7-16 FOR THE APPLICABLE COMPONENT IMPORTANCE FACTOR (Ic). THE COMPONENT AMPLIFICATION FACTOR (Sa), THE COMPONENT RESPONSE MODIFICATION FACTOR (Rp), AND THE OVERSTRENGTH FACTOR (Oa).	
COMPLIANCE WITH THE APPLICABLE WIND AND/OR SEISMIC DESIGN REQUIREMENTS ABOVE SHALL BE DEMONSTRATED IN THE SUBMITTALS FOR THE EQUIPMENT OR COMPONENTS REQUIRED BY THE CONTRACT DOCUMENTS.	
THE DESIGN OF SEISMIC RESTRAINTS IS A DELEGATED DESIGN RESPONSIBILITY OF THE CONTRACT DOCUMENTS. THE DELEGATED DESIGNER SHALL SOLELY VERIFY THE ADEQUACY OF THE STRUCTURAL COMPONENTS OF THE BUILDING OR STRUCTURE WHERE THE RESTRAINTS WILL BE ATTACHED TO OR ANCHORED. RESTRAINT LOCATIONS SHALL BE DETERMINED SUITABLE BY THE DELEGATED DESIGNER PER THE MEANS AND METHODS THAT WILL NEED TO BE USED FOR THE RESTRAINT INSTALLATION.	

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<b>REFERENCES:</b>	
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<b>MATERIALS:</b>	
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STRUCTURAL STEEL	
1. UNLESS OTHERWISE NOTED, THE FOLLOWING MINIMUMS SHALL APPLY: A) WELD SIZE 1/4" (ALL AROUND) B) BOLT DIAMETER 5/8" C) PLATE THICKNESS 1/4" OR 3/8" EXPOSED TO WEATHER D) CLIP ANGLE THICKNESS 1/4" OR 5/8" EXPOSED TO WEATHER	
2. ONE BOLT ASSEMBLY SHALL CONSIST OF: A) A HEAVY HEX STRUCTURAL BOLT B) A HEAVY HEX NUT C) A HARDENED STEEL WASHER	
3. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS USING THE ELECTRIC ARC PROCESS IN ACCORDANCE WITH APPLICABLE PORTIONS OF THE CODE FOR ARC AND GAS WELDING INCLUDING CONSTRUCTION OF THE AMERICAN WELDING SOCIETY.	
4. ALL WELDS AND BURNED AREAS SHALL BE CLEANED, PREPARED AND PRIMED AND PAINTED WITH ZINC RICH PRODUCTS.	
5. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR FABRICATION OF ANY ELEMENT.	

HVAC DRAWING SYMBOLS	
	ACCESS DOOR OR ACCESS PANEL
	GOOSENECK HOOD
	RECTANGULAR OR SQUARE DUCT INDICATES HORIZONTAL DIMENSION FIRST NUMBER INDICATES DIMENSION OF SIDE SHOWN SECOND NUMBER INDICATES SIDE NOT SHOWN.
	INTERNALLY LINED DUCT (NUMBERS INDICATE INSIDE DIMENSIONS)
	SUPPLY DUCT SECTION-FIRST NUMBER INDICATES HORIZONTAL DIMENSION IN VIEW, SECOND NUMBER INDICATES VERTICAL DIMENSION IN VIEW.
	EXHAUST OR RETURN DUCT SECTION- FIRST NUMBER INDICATES HORIZONTAL DIMENSION IN VIEW, SECOND NUMBER INDICATES VERTICAL DIMENSION IN VIEW.
	SUPPLY DUCT TURNING TOWARD VIEWER
	SUPPLY DUCT TURNING AWAY FROM VIEWER
	RETURN OR EXHAUST DUCT TURNING TOWARD VIEWER
	RETURN OR EXHAUST DUCT TURNING AWAY FROM VIEWER
	MOTOR OPERATED DAMPER (PNEUMATIC OR ELECTRIC)
	BALANCING (VOLUME) DAMPER
	FIRE DAMPER: - VERTICAL POSITION - HORIZONTAL POSITION
	STANDARD BRANCH FOR SUPPLY AND RETURN (NO SPLITTER)
	AIR FLOW (UNDUCTED)
	AIR FLOW (DUCTED)
	SUPPLY OR RETURN/ EXHAUST REGISTER GRILLE

HVAC DIAGRAM SYMBOLS	
	UNDUCTED AIRFLOW
	OPPOSED BLADE DAMPER (AUTOMATIC OPERATION)
	OPPOSED BLADE DAMPER (MANUAL OPERATION)
	FIRE DAMPER
	VARIABLE FREQUENCY DRIVE
	ROOM THERMOSTAT
	TEMPERATURE CONTROLLER
	FLOW CONTROLLER
	TEMPERATURE TRANSMITTER
	SMOKE DETECTOR
	DIFFERENTIAL PRESSURE TRANSMITTER
	FLOW TRANSMITTER
	FLOW VALVE
	VAV DIFFUSER
	SUPPLY AIRFLOW
	RETURN AIRFLOW
	TRANSFER AIRFLOW
	EXHAUST AIRFLOW
	DUCT MOUNTED AIR MONITORING DEVICE
	VOLUME BOX
	REHEAT COIL
	CONSTANT VOLUME EXHAUST VALVE
	ANALOG OUTPUT
	ANALOG INPUT
	DIGITAL OUTPUT
	DIGITAL INPUT

HVAC ABBREVIATIONS			
A	AMPERES	ID	INSIDE DIAMETER
AD	ACCESS DOOR	IN	(INCHES)
AFF	ABOVE FINISHED FLOOR	INSUL	INSULATION
AP	ACCESS PANEL	KW	KILOWATT
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR- CONDITIONING ENGINEERS	LAB	LABORATORY
ATTEN	ATTENUATOR	LAT	LEAVING AIR TEMPERATURE
BDD	BACKDRAFT DAMPER	LESHR	POUNDS PER HOUR
BFD	BUTTERFLY DAMPER	LVR	LOUVER
BG	BLAST GATE	LWT	LEAVING WATER TEMPERATURE
BHP	BRAKE HORSEPOWER	MAX	MAXIMUM
BLDG	BUILDING	MBH	UNITS OF THOUSANDS BTU/HR
BOD	BOTTOM OF DUCT	MECH	MECHANICAL
BOS	BOTTOM OF STEEL	MFG	MANUFACTURER
BTU	BRITISH THERMAL UNIT	MIN	MINIMUM
BTUH	BRITISH THERMAL UNIT PER HOUR	MTR	MATERIAL
CE	CONSTANT EXHAUST	MTL	MOTOR
CFM	CUBIC FEET PER MINUTE	NC	NORMALLY CLOSED (MANUAL OPERATION)
C	CENTER LINE	NEC	NATIONAL ELECTRIC CODE
COL	COLUMN	NIC	NOT IN CONTRACT
CONC	CONCRETE	NK	NECK DIAMETER
CONN	CONNECTION	NO	NORMALLY OPEN (MANUAL OPERATION)
CONT	CONTINUATION	NR	NUMBER
CONTR	CONTRACTOR(S)	NTS	NOT TO SCALE
dB	DECIBEL	OA	OUTSIDE AIR
dB	DRY BULB TEMPERATURE	OAD	OUTDOOR AIR DAMPER
DG	DOOR GRILLE	ON	OUTDOOR AIR INTAKE/INLET
DIA	DIAMETER	OB	OPPOSED BLADE
DIFF	DIFFUSER	OC	ON CENTER
DN	DOWN	OD	OUTSIDE DIAMETER
DPG	DIFFERENTIAL PRESSURE GAUGE	OPNG	OPENING
DPR	DAMPED	OZ	OUNCE
DPT	DEW POINT TEMPERATURE	PD	PRESSURE DROP
DWG	DRAWING	PF	PRE-FILTER
EA	EXHAUST AIR	PH	PHASE
EAT	ENTERING AIR TEMPERATURE	PFM	PARTS PER MILLION
EDR	EQUIVALENT DIRECT RADIATION	PRESS	PRESSURE
EL	ELEVATION	PSI	POUNDS PER SQUARE INCH
ELEC	ELECTRIC (ELECTRICAL)	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
ESP	EXTERNAL STATIC PRESSURE	RA	RETURN AIR
EW	ENTERING WATER TEMPERATURE	RH	RELATIVE HUMIDITY
EXH	EXHAUST	RPM	REVOLUTIONS PER MINUTE
EXIST	EXISTING	SA	SUPPLY AIR
F	FAHRENHEIT (DEGREES)	SCFH	STANDARD CUBIC FEET PER HOUR
FA	FACE AREA	SCFM	STANDARD CUBIC FEET PER MINUTE
FC	FACE CLOSED	SF	SQUARE FEET
FF	FINISHED FLOOR	SP	STATIC PRESSURE
FIE	FINISHED FLOOR ELEVATION	SPEC	SPECIFICATIONS
FL	FLOOR	SS	STAINLESS STEEL
FLEX	FLEXIBLE	STD	STANDARD
FLTR	FILTER	TEMP	TEMPERATURE
FLXC	FLEXIBLE CONNECTOR	TOD	TOP OF DUCT
FMD	FLOW MEASURING DEVICE	TOS	TOP OF STEEL
FO	FALL OPEN	TP	TOTAL PRESSURE
FOB	FLAT ON BOTTOM	TSP	TOTAL STATIC PRESSURE
FOT	FLAT ON TOP	TV	TURNING VANE
FPM	FEET PER MINUTE	TYP	TYPICAL
FT	FOOT (FEET)	V	VOLTS
FUT	FUTURE	VAV	VARIABLE AIR VOLUME
FV	FACE VELOCITY	VD	VOLUME DAMPER (MANUAL)
GA	GAUGE	VEL	VELOCITY
GALV	GALVANIZED	VERT	VERTICAL
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER	VFD	VARIABLE FREQUENCY DRIVE
HGR	HANGER	VP	VELOCITY PRESSURE
HOR	HORIZONTAL	WB	WET BULB TEMPERATURE
HP	HORSEPOWER	WG	WATER GAUGE (COLUMN)
HV	HEATING AND VENTILATING	WP	WORKING POINT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING HERTZ	WPD	WATER PRESSURE DROP
HZ		WT	WEIGHT



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**ALEXANDER THEATER SAFE RM & BUILDING WIND RETROFIT PROJECT**

23 KING STREET, 22 & 23 MARKET STREET, 388 COMPANY STREET,  
 38A COMPANY STREET, 36 COMPANY STREET & 37 COMPANY STREET  
 ADDRESS

St. Croix Foundation  
 For Community Development  
 1323 MARKET ST. CHRISTIANSTED, VI 00820  
 CLIENT

21192 PROJECT NUMBER 5/2025 DATE

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REVISIONS:  
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NOTES:

SCALE

HVAC- SCHEDULES AND NOTES

SHEET TITLE  
 H1-02

SHEET NUMBER



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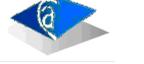
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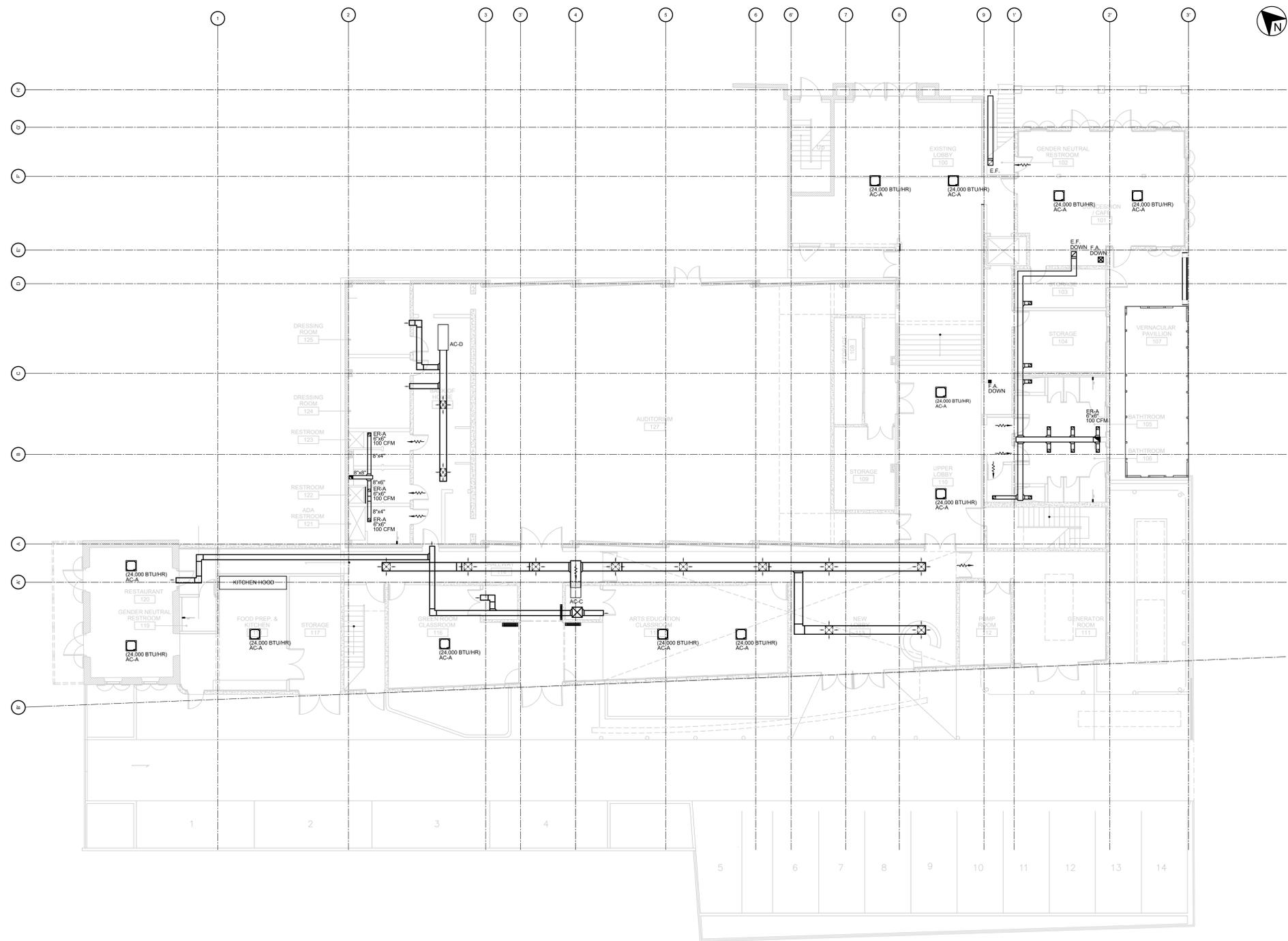
SCALE

HVAC- FIRST FLOOR PLAN

SHEET TITLE

H2-01

SHEET NUMBER



HVAC - FIRST FLOOR PLAN  
 SCALE: 1/8"=1'-0"

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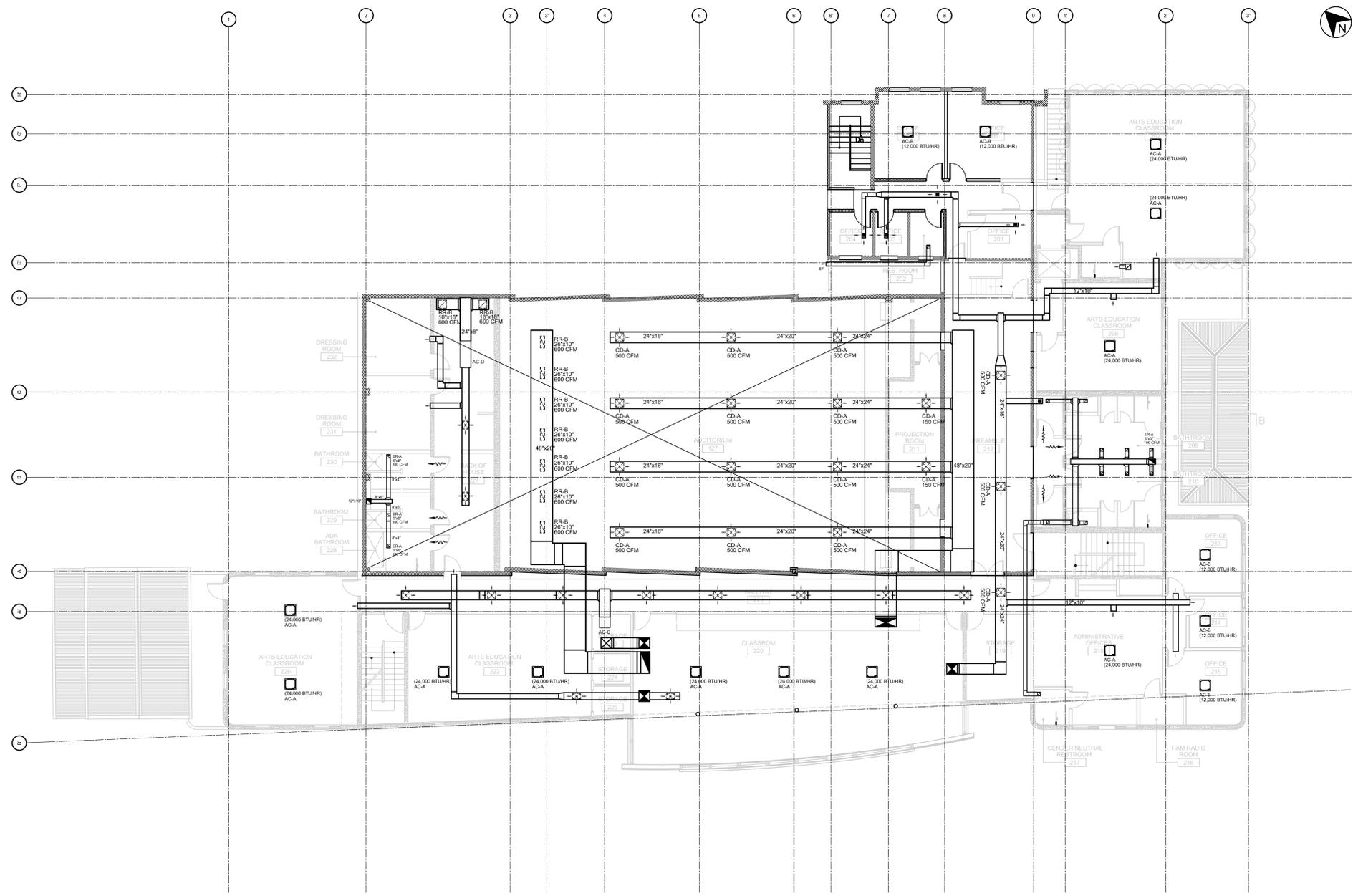
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HVAC - SECOND FLOOR PLAN

SHEET TITLE

H2-02

SHEET NUMBER



HVAC - SECOND FLOOR PLAN  
SCALE: 1/8"=1'-0"

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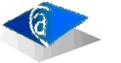
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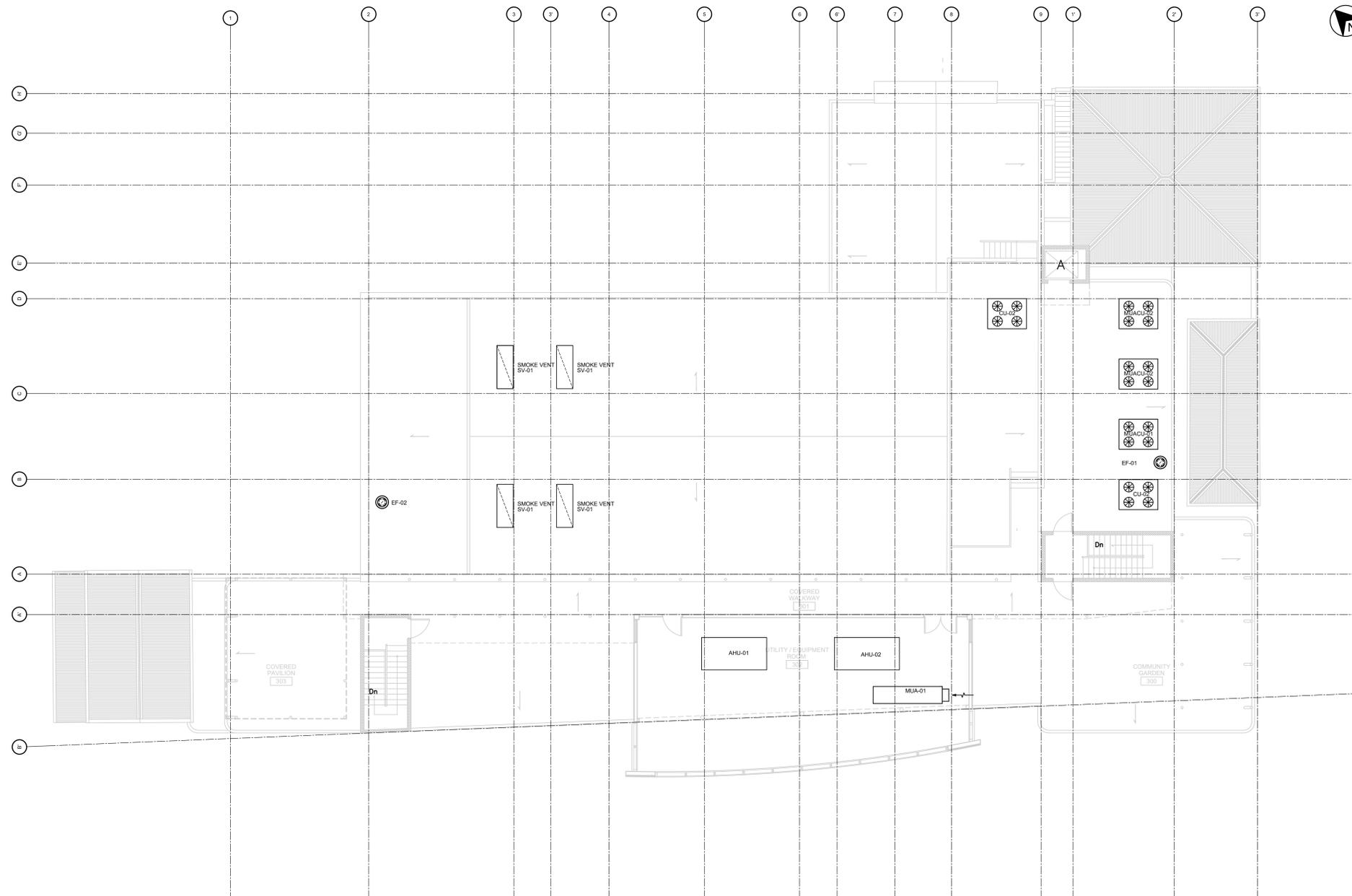
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HVAC - THIRD FLOOR PLAN

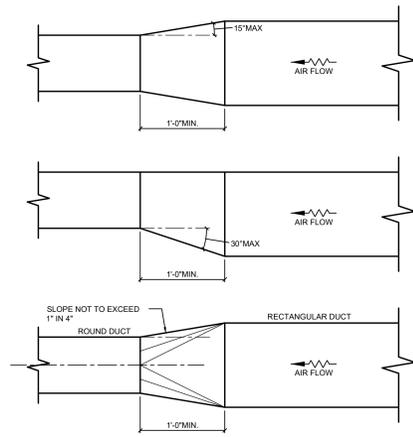
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H2-03

SHEET NUMBER

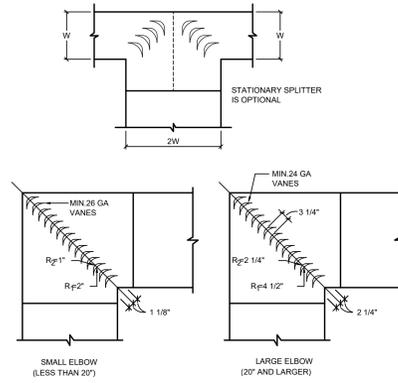


HVAC - THIRD FLOOR PLAN  
SCALE: 1/8"=1'-0"



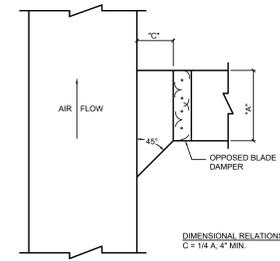
TYPICAL DUCT TRANSITION DETAIL

NTS



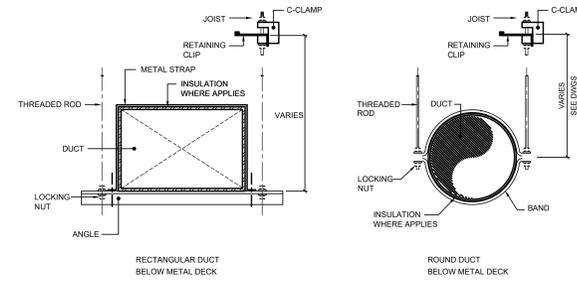
TYPICAL RECTANGULAR ELBOW

NTS



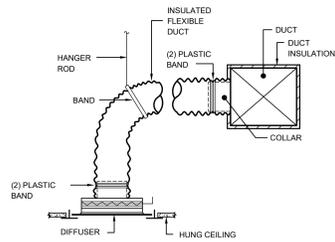
BRANCH DUCT DETAIL RECTANGULAR

NTS



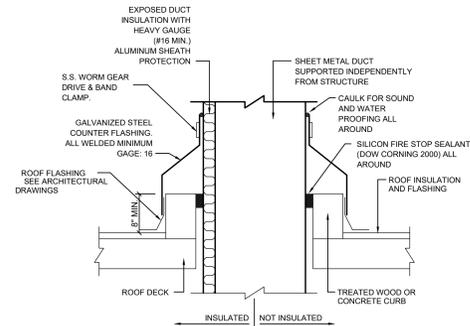
DUCT SUPPORT DETAIL

NTS



SUPPLY DIFFUSER DUCT WORK CONNECTION

NTS



NOTE:  
1- ALL WELDED JOINTS SHALL BE TREATED WITH A COMPATIBLE ANTICORROSION COATING FOR GALVANIZED SURFACES.

DUCT ACROSS ROOF DECK

NTS



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HVAC DETAILS

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H3-01

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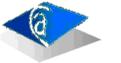
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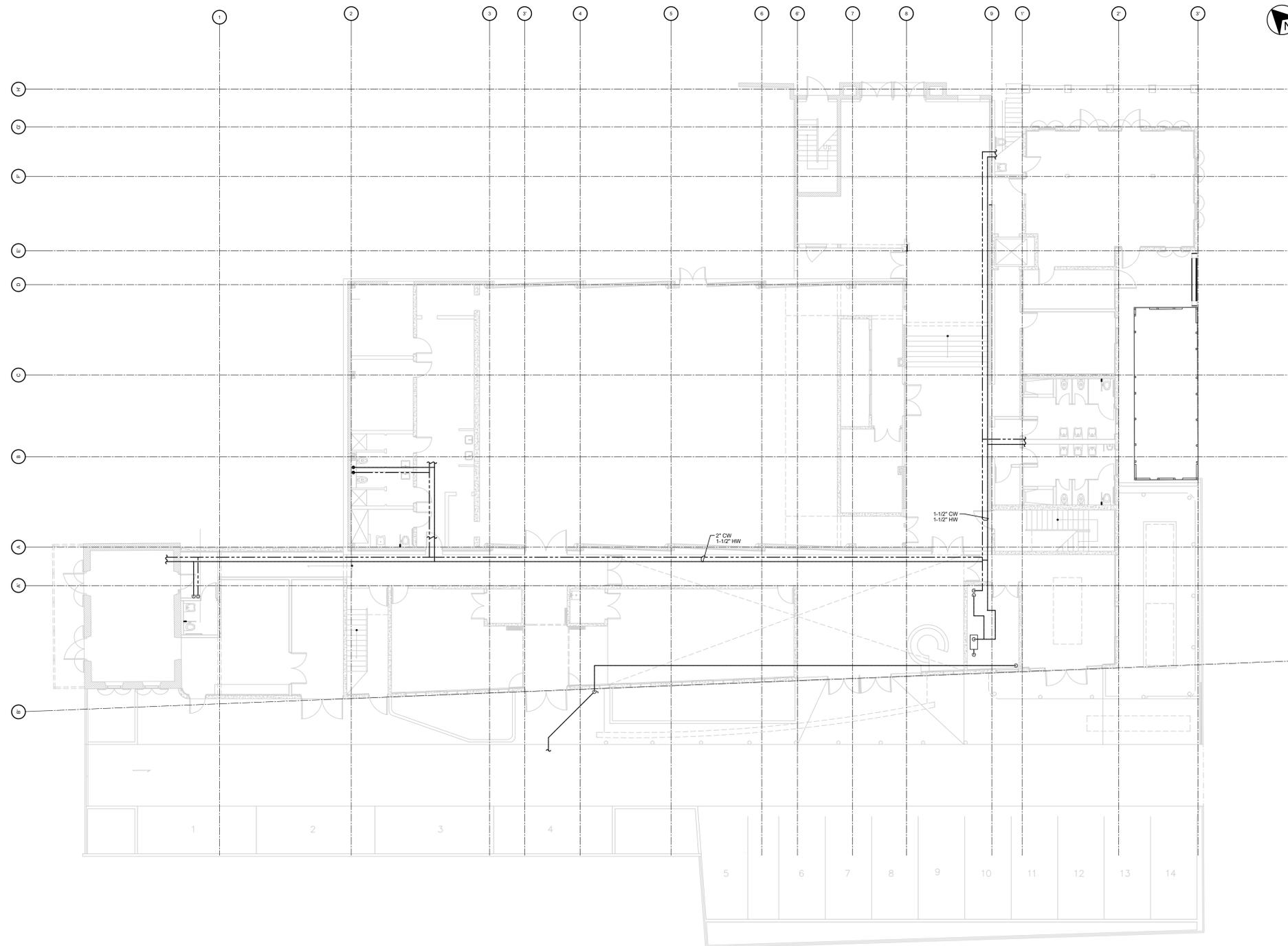
SCALE

PIPING- FIRST FLOOR PLAN

SHEET TITLE

M2-01

SHEET NUMBER



**PIPING - FIRST FLOOR PLAN**  
 SCALE: 1/8"=1'-0"



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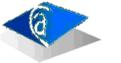
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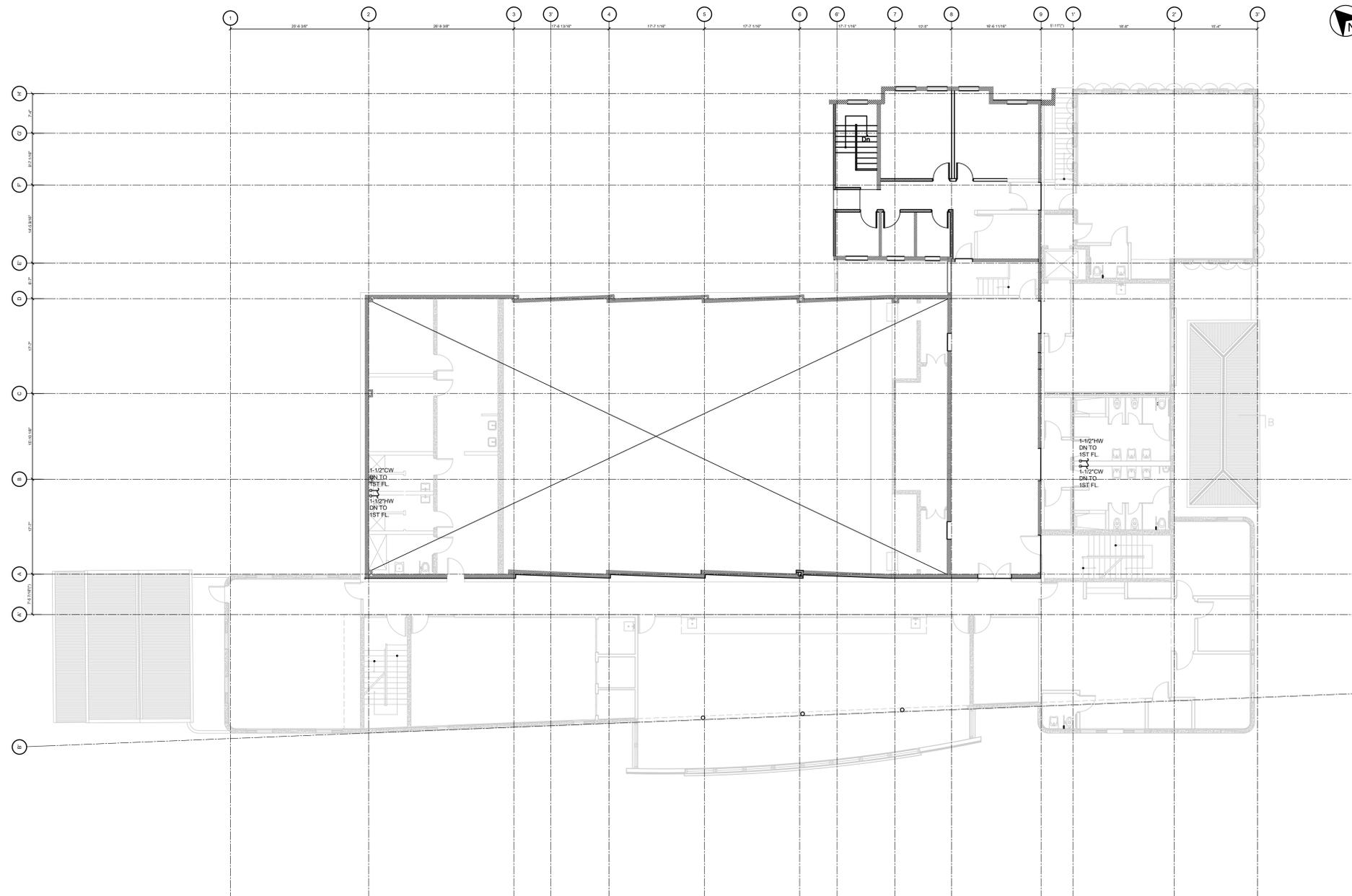
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PIPING - SECOND FLOOR PLAN

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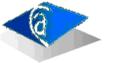
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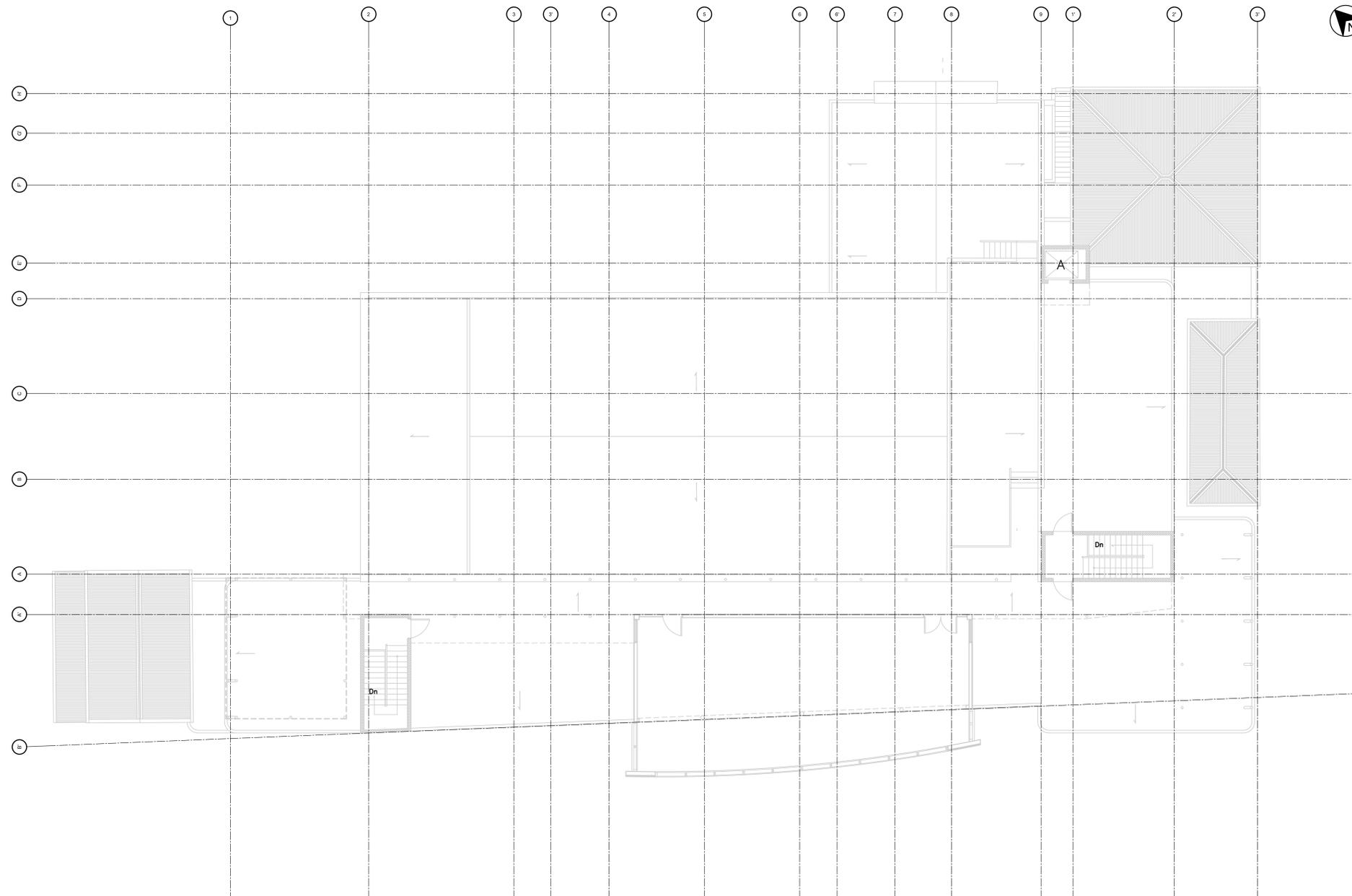
SCALE

PIPING - THIRD FLOOR PLAN

SHEET TITLE

M2-03

SHEET NUMBER



**PIPING - THIRD FLOOR PLAN**  
 SCALE: 1/8"=1'-0"



WATER PRESSURE BOOSTER SYSTEM SPECIFICATIONS

**GENERAL**  
FURNISH AND INSTALL A PREFABRICATED IRONHEART HORIZONTAL THREE PUMP WATER PRESSURE BOOSTER SYSTEM AS DESIGNED AND MANUFACTURED BY SYNCROFLO, INC., NORCROSS, GEORGIA. THE SYSTEM SHALL BE CAPABLE OF AUTOMATICALLY PROVIDING A MINIMUM SYSTEM PRESSURE OF 70 PSIG WHILE SUPPLYING A FLOW RATE FROM 0 TO 100 GPM WITH A SUCTION LIFT OF 10 PSIG MINIMUM, 10 PSIG MAXIMUM. SYSTEM SHALL AUTOMATICALLY PROVIDE COMPLETE PUMP SHUTDOWN DURING LOW FLOW CONDITIONS WHILE MAINTAINING MINIMUM SYSTEM PRESSURE. THE SYSTEM SHALL AUTOMATICALLY STORE A MINIMUM OF 40 GALLONS OF USABLE WATER TO MAINTAIN SYSTEM PRESSURE WHEN OPERATING AT MINIMUM SUCTION PRESSURE.

**PUMPS**  
THE PUMPS SHALL BE SYNCROFLO CONSTANT SPEED VERTICAL MULTI-STAGE DIFFUSER PUMPS WITH STAINLESS STEEL SHAFTS, STAINLESS STEEL IMPELLERS, AND A TUNGSTEN CARBIDE MECHANICAL SEAL. PUMPS SHALL BE MODEL 6LM6 RATED 35 GPM AT 162 FT (70 PSIG) TDH.

**MOTORS**  
PUMPS SHALL BE DRIVEN BY 3 HP, 480 VOLT, 60 HERTZ, 3 PHASE, 3500 RPM, OPEN DRIP PROOF VERTICAL, SOLID SHAFT MOTOR. EACH MOTOR SHALL MEET NEMA STANDARDS AND OPERATE WITHIN THE NAMEPLATE HORSE POWER AT ANY POINT ON THE PUMP CAPACITY HEAD CURVE.

**PRESSURE REGULATING VALVES**  
CONSTANT SYSTEM PRESSURE SHALL BE MAINTAINED BY PILOT OPERATED DIAPHRAGM TYPE, PRESSURE REGULATING VALVES ON EACH BUILDING RISER. VALVE BODY SHALL BE CAST IRON WITH EPOXY COATED COVER AND BRASS OR EPOXY COATED DISC GUIDE, DISC RETAINER, AND DIAPHRAGM WASHER. THE VALVE BODY SHALL BE SUITABLE FOR OPERATION AT MAXIMUM PUMP PRESSURE PLUS MAXIMUM SUCTION PRESSURE.

NEOPRENE FLEXIBLE CONNECTORS SHALL BE FURNISHED AT EACH PUMP DISCHARGE LINE.

**PUMP SEQUENCING**  
0 TO 35 GPM \_\_\_\_\_ PUMP NO. 1 ONLY SHALL RUN.  
36 TO 70 GPM \_\_\_\_\_ PUMPS NO. 1 AND NO. 2 SHALL RUN TOGETHER.  
71 TO 105 GPM \_\_\_\_\_ PUMPS NO. 1, 2 & 3 SHALL RUN TOGETHER.

THE LAG PUMPS SHALL BE SEQUENCED ON AND OFF BY FACTORY SET, DIRECT SENSING, PRESSURE SWITCHES.

**LEAD PUMP SHUTDOWN CONTROLS**  
PROVIDE A FACTORY PRECHARGED, ASME CODE AND NB STAMPED, 50 GALLON 150 PSIG RATED SYNCROFLO HYDROCUMULATOR TANK. CONSTRUCTION FEATURES SHALL INCLUDE AN ASME RELIEF VALVE, AN AIR FILL VALVE, AN AIR PRESSURE GAUGE, A DRAIN VALVE, AND A REPLACEABLE FLEXIBLE MEMBRANE TO SEPARATE AIR AND WATER. NO WATER SHALL COME IN CONTACT WITH THE METAL WALLS OF THE TANK. IN ADDITION THE HYDROCUMULATOR TANK SHALL BE BOTTOM FED AND CAPABLE OF 100% DRAW DOWN. TANK SHALL SHIP PRECHARGED TO THE PROPER DESIGN CONDITIONS. THE TANK SHALL BE CAPABLE OF STORING A MINIMUM OF 40 GALLONS OF USABLE WATER WITH THE SCHEDULED PUMP AND DESIGN CONDITIONS.

IN ADDITION, PROVIDE A SPRING LOADED, NON-SLAM SILENT CHECK VALVE ON EACH PUMP DISCHARGE LINE WITH 1 1/4" FEEDLINE PIPING AND ISOLATION VALVE (S).

THE TANK SHALL BE LOCATED WITH THE PUMPS AND THE FEEDLINE CONNECTION (S) FROM THE TANK SHALL BE BETWEEN THE PUMP CHECK VALVE (S) AND PRESSURE REGULATING VALVE (S) TO ASSURE CONSTANT SYSTEM PRESSURE AND PREVENT LEAKS BACK TO SUCTION.

**POWER AND CONTROL PANEL**  
FURNISH A SINGLE ENCLOSURE SYNCROFLO POWER AND CONTROL PANEL, NEMA 1. ENCLOSURE SHALL BE STEEL AND FINISHED WITH AN INDUSTRIAL GRADE ENAMEL. IT SHALL HOUSE ALL CONTROL COMPONENTS AND INCLUDE: 115 V CONTROL TRANSFORMER WITH CONTROL, POWER SWITCH, INDICATING LIGHTS, MANUAL ALTERNATOR, AUDIO VISUAL ALARM SYSTEM, AND OTHER NECESSARY CONTROLS. INCLUDE FOR EACH PUMP A FUSED DISCONNECT SWITCH WITH EXTERNAL OPERATING HANDLE, A MAGNETIC STARTER WITH 3-LEG OVERLOAD PROTECTION, A RUNNING LIGHT, AND MULTIPLE POSITION SELECTOR SWITCH. ALL OF THE ABOVE SHALL BE FACTORY INTERNALLY WIRING AND TESTED IN ACCORDANCE WITH THE PROVISIONS OF THE NATIONAL ELECTRICAL CODE. ALL CONTROL WIRES SHALL BE INDIVIDUALLY NUMBERED AND EACH COMPONENT SHALL BE LABELED ACCORDINGLY. ALL INTERNAL WIRING SHALL BE COPPER STRANDED, A.W.G. WITH A MINIMUM INSULATION OF 90 DEGREES C. THE COMPLETE ASSEMBLY SHALL HAVE THE UL LISTING MARK FOR INDUSTRIAL CONTROL PANELS.

**INSTRUMENTATION AND EMERGENCY CONTROLS**  
EACH PUMP SHALL HAVE ANTI-VIBRATION PADS, A TEMPERATURE PROBE, AND AN ELECTRIC PURGE VALVE. INCLUDE INDIVIDUAL 4 1/2" ASA GRADE PRESSURE GAUGES FOR INDICATING EACH PUMP SYSTEM AND SUCTION PRESSURE. INCLUDE PRESSURE SWITCHES FOR ABNORMALLY LOW SYSTEM PRESSURE TO ACTIVATE THE MANUAL RESET ALARM SYSTEM. ALL PRESSURE SWITCHES, AS WELL AS THE SYSTEM AND SUCTION PRESSURE GAUGES, SHALL BE CONTROL PANEL MOUNTED.

**GUARANTEE**  
THE SYNCROFLO WATER PRESSURE BOOSTER SYSTEM SHALL BE GUARANTEED IN WRITING BY THE MANUFACTURER FOR A PERIOD OF ONE YEAR FROM DATE OF SHIPMENT AGAINST DEFECTS IN DESIGN, MATERIALS, OR CONSTRUCTION.

**START-UP SERVICE**  
THE SERVICE OF A FACTORY TRAINED REPRESENTATIVE SHALL BE MADE AVAILABLE ON THE JOBSITE TO CHECK INSTALLATION AND START-UP AND INSTRUCT OPERATING PERSONNEL.

**SUBMITTAL DATA**  
THE SUBMITTAL DATA FOR THE PUMPING SYSTEM SHALL INCLUDE, BUT NOT LIMITED TO: PUMP CURVES, INDIVIDUAL COMPUTER DATA SHEETS, SYSTEM DRAWINGS, AND COMPLETE DESCRIPTION OF CONTROL PANEL, WITH WIRING DIAGRAM, SEQUENCING DATA, INSTRUMENTATION AND ALARMS.

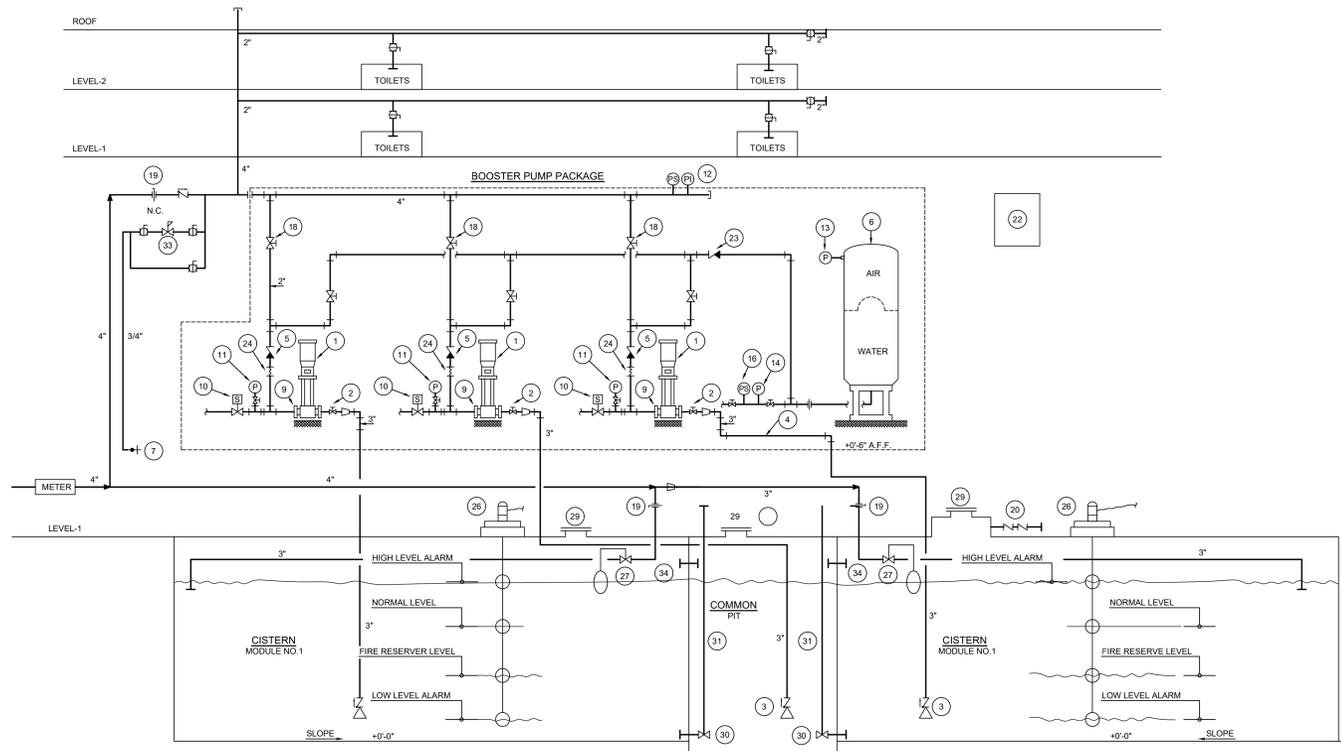
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**START-UP SERVICE**  
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**INSTRUCTION MANUALS**  
FURNISH TO OWNER FOUR (4) SETS OF INSTALLATION, OPERATION AND MAINTENANCE MANUALS.

**SPARE PARTS AND MAINTENANCE SERVICES**  
EQUIPMENT WHICH IS NOT PROPERLY REPRESENTED IN PUERTO RICO AND BACKED UP WITH SPARE PARTS AND A GOOD SERVICE ORGANIZATION SHALL NOT BE ACCEPTABLE.

**ACCESSORIES**  
(2) WARRICK ELECTRODE CONTROLS FOR LOW LEVEL AND HIGH LEVEL ALARM, WITH PROBE HOLDER, SUSPENSION TIPS AND SUSPENSION WIRE.  
(1) 4" SUCTION STRAINER AND FOOT VALVE.  
(1) 2" FLOAT VALVE EPOXY COATED.  
(1) NEMA 12 LOW AND HIGH LEVEL ALARM PANEL.



WATER PRESSURE BOOSTER SYSTEM SCHEMATIC  
NOT TO SCALE

BOOSTER PUMP SYSTEM EQUIPMENT

LEGEND	DESCRIPTION	REMARK	LEGEND	DESCRIPTION	REMARK
(1)	VERTICAL MULTISTAGE DIFFUSER PUMP MODEL 6LM6 WITH 15 HP 3 PHASE 480V 60 HZ MOTOR	PART OF EQUIPMENT	(19)	BUTTERFLY VALVE	PART OF EQUIPMENT
(2)	2" SUCTION VALVE	PART OF EQUIPMENT	(20)	4" OVER FLOW WINSECT SCREEN	CONTRACTOR
(3)	4" SUCTION STRAINER AND FOOT VALVE	PART OF EQUIPMENT	(21)	6"Ø VENT WINSECT SCREEN (PVC)	CONTRACTOR
(4)	SUCTION LINE 3"	PART OF EQUIPMENT	(22)	POWER AND CONTROL PANEL	PART OF EQUIPMENT
(5)	NON-SLAM CHECK VALVE	PART OF EQUIPMENT	(23)	ORIFICE CHECK VALVE 1 1/2"	PART OF EQUIPMENT
(6)	MOD. 170 HYDROCUMULATOR TANK	PART OF EQUIPMENT	(24)	NEOPRENE FLEXIBLE CONNECTOR 3"	PART OF EQUIPMENT
(7)	3/4" HOSE BIBB WITH BACKFLOW PREVENTER	CONTRACTOR	(25)	MAXI-STORE FLOW SWITCH	PART OF EQUIPMENT
(8)	MAIN DOMESTIC HEADER 4"	PART OF EQUIPMENT	(26)	WATER LEVEL CONTROL	PART OF EQUIPMENT
(9)	TEMPERATURE PROBE	PART OF EQUIPMENT	(27)	3" FLOAT VALVE	PART OF EQUIPMENT
(10)	PURGE VALVE 3/8"	PART OF EQUIPMENT	(28)	GATE SHUT/OFF VALVE	CONTRACTOR
(11)	PRESSURE GAUGE PUMP DISCHARGE 0-300 PSI	PART OF EQUIPMENT	(29)	30"x30" WATERTIGHT ACCESS DOOR	CONTRACTOR
(12)	PRESSURE GAUGE SYSTEM 0-300 PSI	PART OF EQUIPMENT	(30)	24"x24" SLUICE GATE VALVE AS MANUF. BY RODNEY HUNT	CONTRACTOR
(13)	PRESSURE GAUGE HYDROCUMULATOR 0-300 PSI	PART OF EQUIPMENT	(31)	OPERATING STEM WITH FLOORSTAND AND STEMGUIDE	CONTRACTOR
(14)	PRESSURE GAUGE, FEET LINE 0-300 PSI	PART OF EQUIPMENT	(32)	BACKFLOW PREVENTER	CONTRACTOR
(15)	3" SWING CHECK VALVES	CONTRACTOR	(33)	PRESSURE REDUCING VALVE	CONTRACTOR
(16)	PRESSURE SWITCH (LEAD PUMP)	PART OF EQUIPMENT	(34)	4"Ø PIPE SLEEVE (VENT.)	
(17)	PRESSURE SWITCH (LAG PUMP)	PART OF EQUIPMENT			
(18)	DISCHARGE VALVE 2"	PART OF EQUIPMENT			



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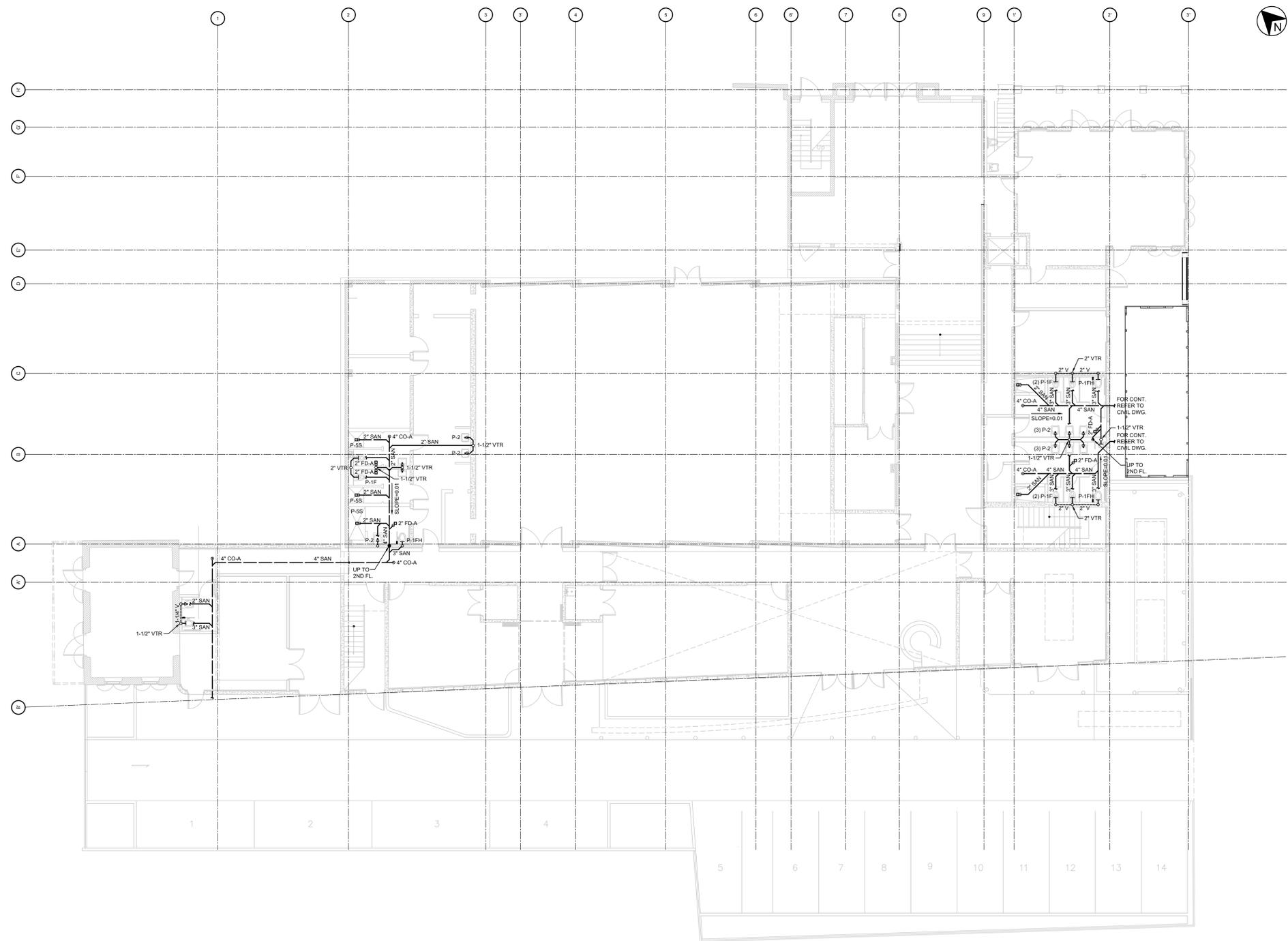
SCALE

PLUMBING- FIRST FLOOR PLAN

SHEET TITLE

P2-01

SHEET NUMBER



**PLUMBING - FIRST FLOOR PLAN**  
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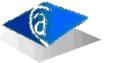
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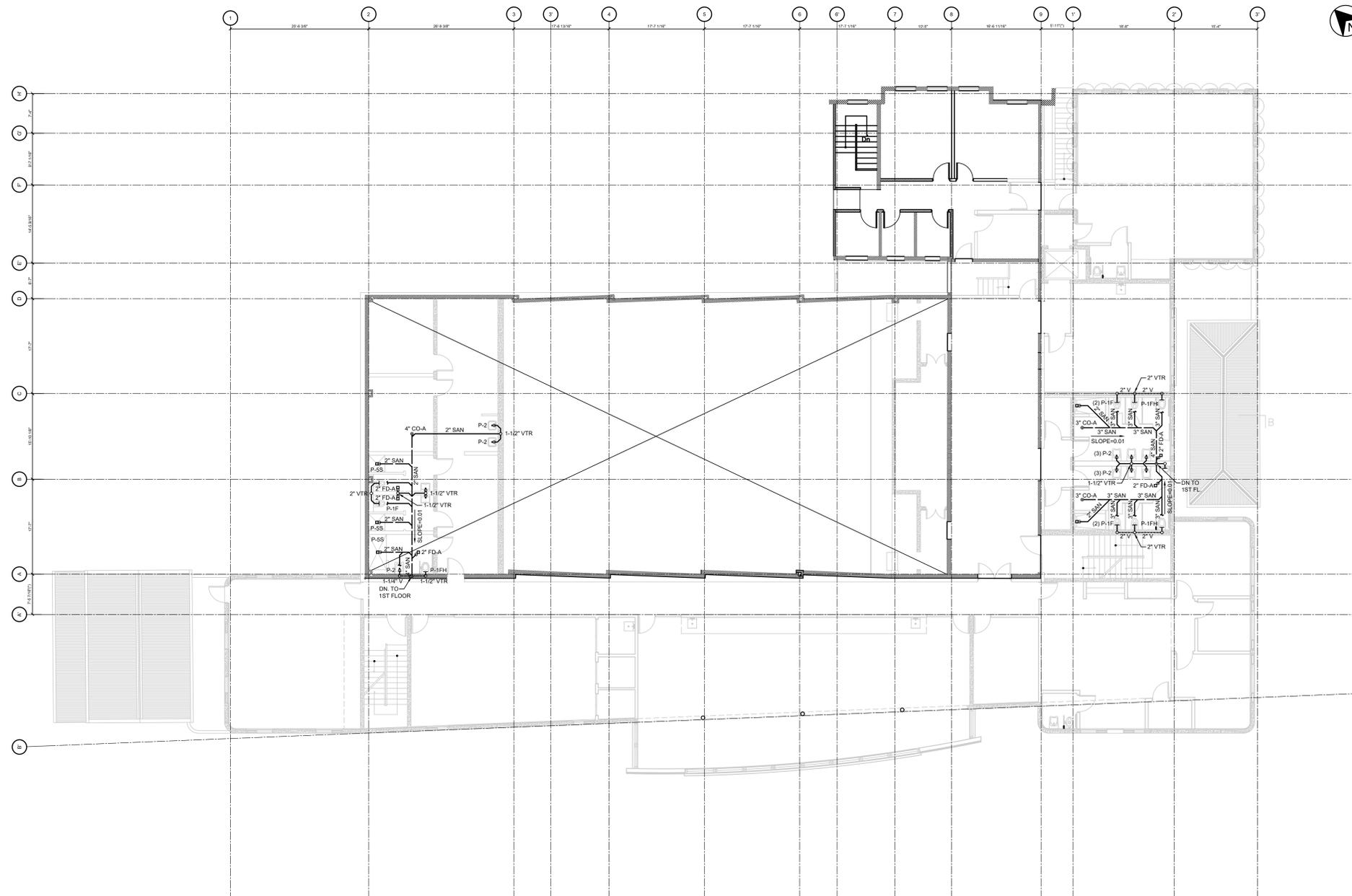
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PLUMBING - SECOND FLOOR PLAN

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P2-02

SHEET NUMBER



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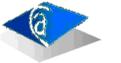
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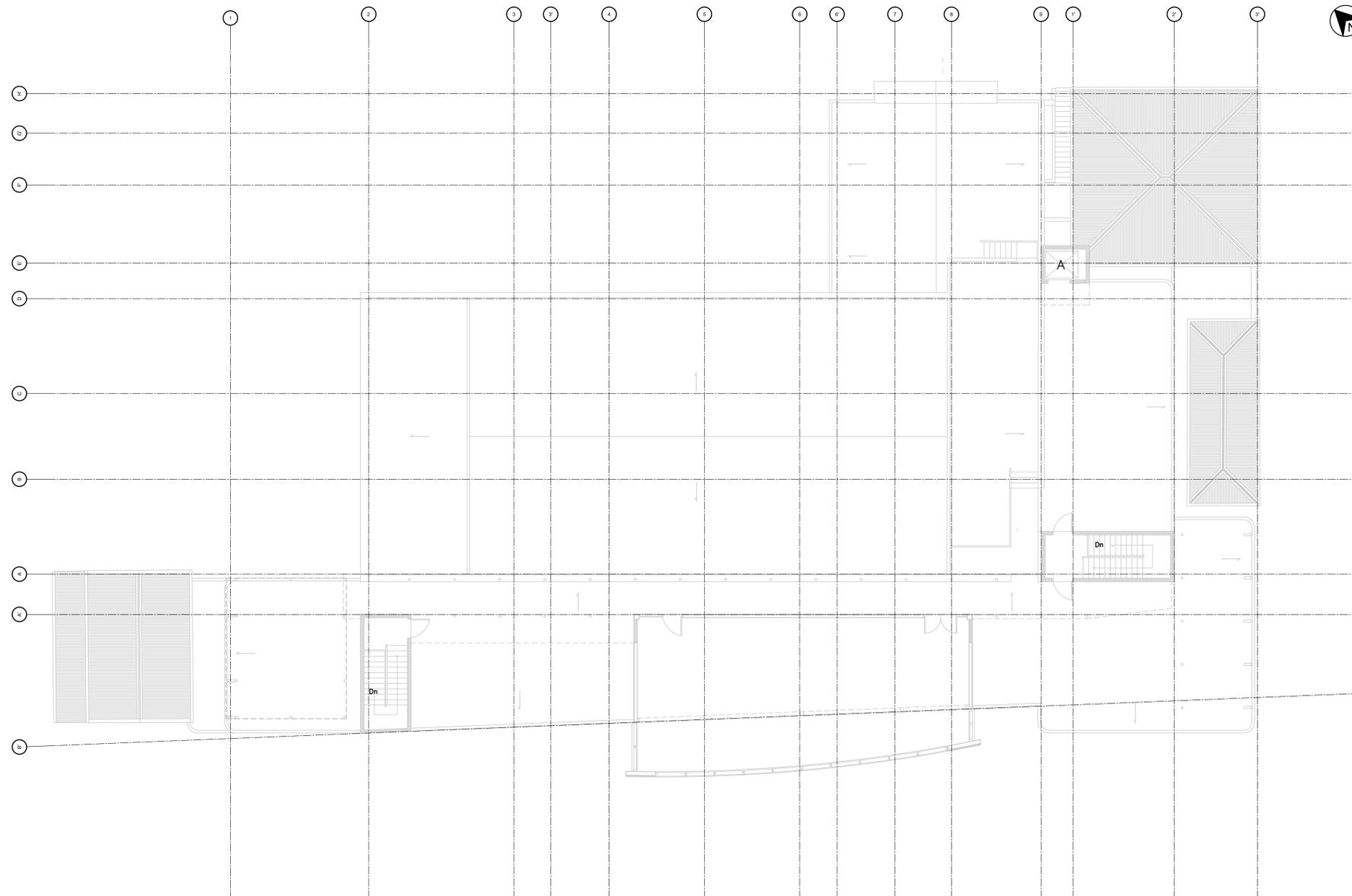
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