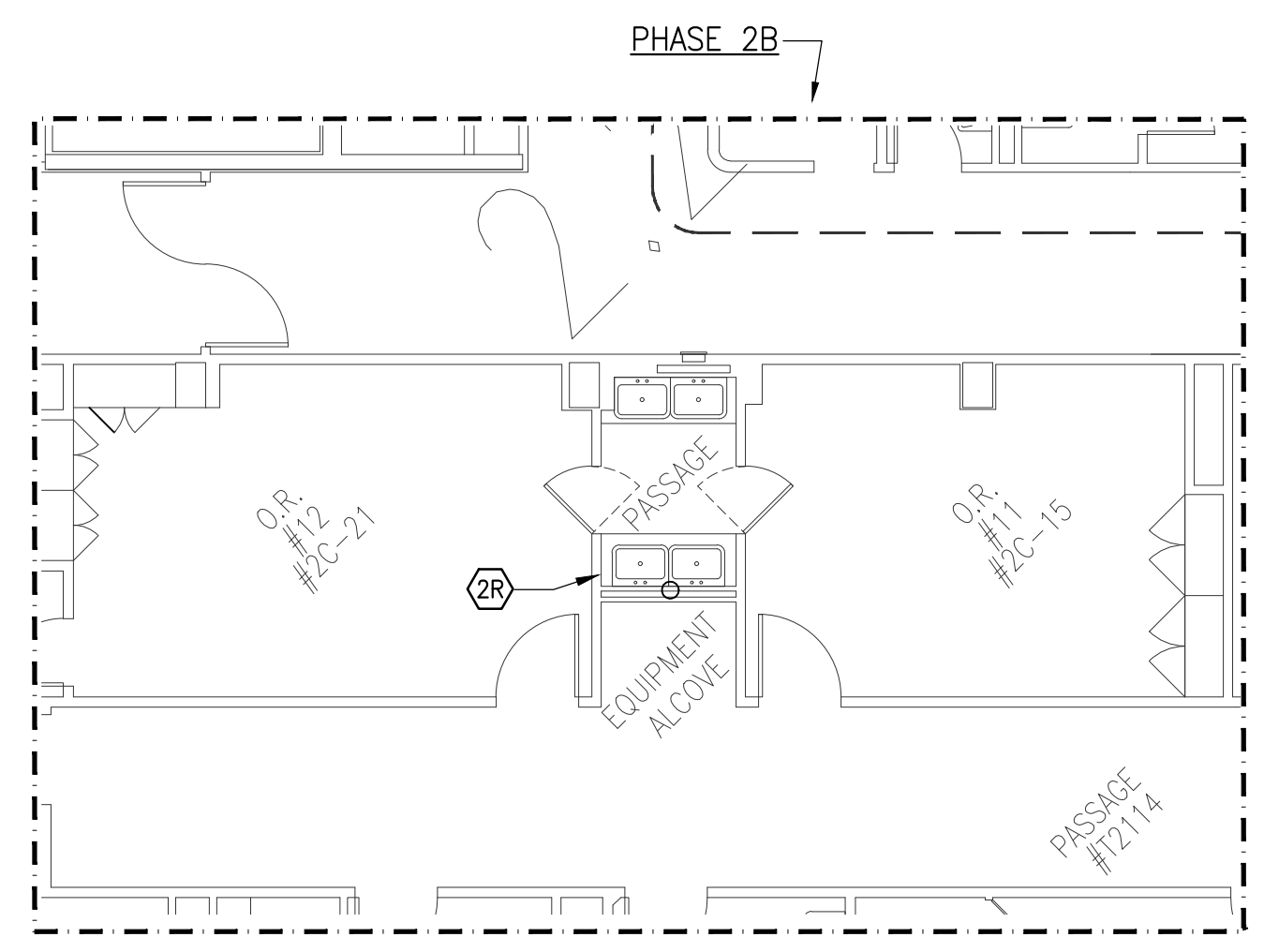
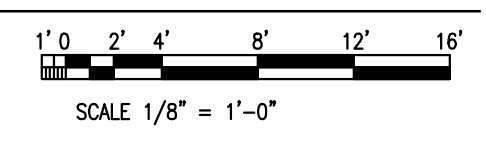
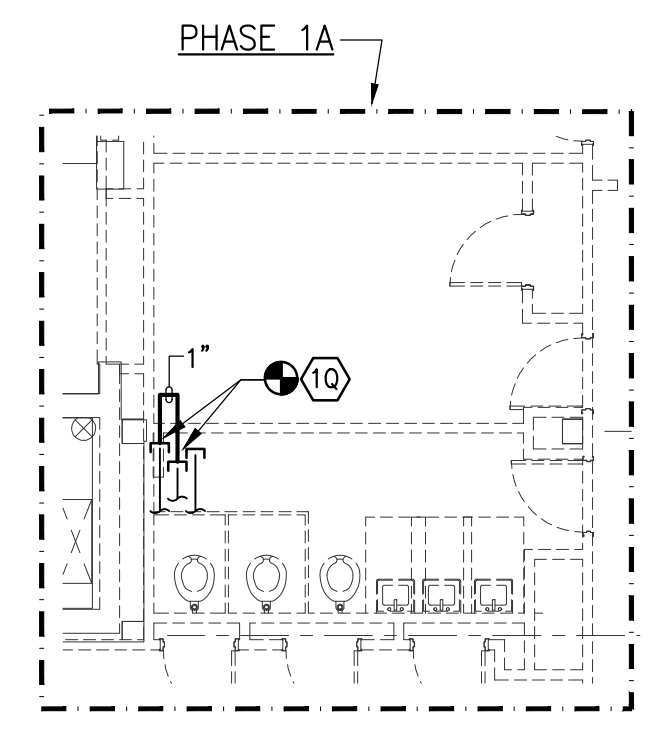
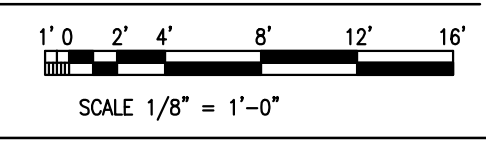


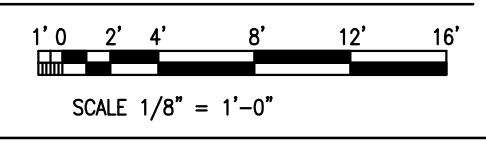
1 PLUMBING 1ST FLOOR DEMOLITION PLAN  
SCALE: 1/8" = 1'-0"



2 PLUMBING 2ND FLOOR DEMOLITION PLAN  
SCALE: 1/8" = 1'-0"



3 PLUMBING 2ND FLOOR TEMPORARY CONSTRUCTION PLAN  
SCALE: 1/8" = 1'-0"



- PLUMBING KEY NOTES:**
- (1A) EXISTING VENT PIPE TO BE REMOVED BACK TO POINT OF DISCONNECT AS INDICATED AND PLUGGED.
  - (1B) EXISTING HAND SINK, FAUCET AND ASSOCIATED APPURTENANCE SHALL BE REMOVED. ASSOCIATED WASTE, VENT AND DOMESTIC WATER PIPING SHALL BE REMOVED BACK AS INDICATED.
  - (1C) EXISTING DOMESTIC WATER PIPING SHALL BE REMOVED AND CAPPED AS INDICATED.
  - (1D) EXISTING 1" DOMESTIC COLD WATER PIPING SHALL BE REMOVED BACK AS INDICATED AND CAPPED UNDER PHASE 1B.
  - (1E) EXISTING 1" DOMESTIC HOT WATER PIPING SHALL BE REMOVED BACK AS INDICATED AND CAPPED UNDER PHASE 1B.
  - (1F) EXISTING ELECTRIC WATER HEATER, DRIP PAN, 3 FLOOD MASTER LEAK DETECTION AND SOLENOID VALVE SYSTEMS AND AQUASTAT SHALL BE REMOVED AND RELOCATED INTO NEW WATER HEATER ROOM. ASSOCIATED DOMESTIC WATER PIPING SHALL BE REMOVED BACK TO ACTIVE LINE AND CAPPED.
  - (1G) EXISTING CIRCULATING PUMP AND ASSOCIATED APPURTENANCES SHALL BE REMOVED AND RELOCATED INTO NEW WATER HEATER ROOM. ASSOCIATED DOMESTIC WATER PIPING SHALL BE REMOVED.
  - (1H) EXISTING HWR AND COLD DOMESTIC WATER PIPING SHALL BE REMOVED AND CAPPED AS INDICATED UNDER PHASE 1A
  - (1I) EXISTING WATER DISPENSER AND ASSOCIATED APPURTENANCE AND PIPING SHALL BE REMOVED.
  - (1J) EXISTING HAND SINK, FAUCET AND ASSOCIATED APPURTENANCE SHALL BE REMOVED. ASSOCIATED WASTE, VENT AND DOMESTIC WATER PIPING SHALL BE REMOVED BACK AS INDICATED.
  - (1K) EXISTING (3) THREE MIXING VALVES AND ASSOCIATED PIPING AND APPURTENANCE SHALL BE REMOVED.
  - (1L) 2ND FLOOR O.R.'S EXISTING 1" TEMPERED WATER PIPE, (2) 1" CW WATER PIPES TO BE REMOVED AND TEMPORARILY CAPPED AS INDICATED.
  - (1M) EXISTING DOMESTIC WATER PIPES TO REMAIN
  - (1N) EXISTING FLOOR MOUNTED WATER CLOSET, FLUSH VALVE AND ASSOCIATED APPURTENANCE SHALL BE REMOVED. ASSOCIATED SOIL, VENT AND DOMESTIC WATER PIPING SHALL BE REMOVED BACK TO ACTIVE LINE AND CAPPED/PLUG.
  - (1P) EXISTING LAVATORY, CARRIER, FAUCET AND ASSOCIATED APPURTENANCE SHALL BE REMOVED. ASSOCIATED WASTE, VENT AND DOMESTIC WATER PIPING SHALL BE REMOVED BACK TO ACTIVE LINE AND CAPPED/PLUG.
  - (1Q) PLUMBING CONTRACTOR TO TEMPORARY LOOP HW PIPING DURING THE RELOCATION OF THE EXISTING WATER HEATER AND ASSOCIATED COMPONENTS IN ORDER TO MAINTAIN THE 2ND FLOOR SCRUB SINKS OPERATIONAL.
  - (2A) EXISTING DOMESTIC COLD WATER PIPE TO BE REMOVED BACK TO POINT OF DISCONNECT AS INDICATED AND CAPPED.
  - (2B) EXISTING FLOOR DRAIN SHALL BE REMOVED. ASSOCIATED WASTE AND VENT PIPING SHALL BE REMOVED BACK TO ACTIVE LINES AND PLUGGED.
  - (2C) EXISTING HAND SINK, FAUCET AND ASSOCIATED APPURTENANCE SHALL BE REMOVED. ASSOCIATED WASTE, VENT AND DOMESTIC WATER PIPING SHALL BE REMOVED BACK AS INDICATED.
  - (2D) EXISTING DOMESTIC WATER PIPING SHALL BE REMOVED AND CAPPED AS INDICATED.
  - (2E) EXISTING SCRUB SINK, FAUCET, KNEE PEDAL AND ASSOCIATED APPURTENANCE SHALL BE REMOVED. ASSOCIATED WASTE, VENT AND DOMESTIC WATER PIPING SHALL BE REMOVED BACK TO ACTIVE LINE AND CAPPED/PLUG.
  - (2F) EXISTING PREFABRICATED SHOWER, SHOWER HEAD, SHOWER DRAIN AND SHOWER VALVE SHALL BE REMOVED. ASSOCIATED WASTE, VENT AND DOMESTIC WATER PIPING SHALL BE REMOVED BACK TO ACTIVE LINES AND CAPPED/PLUG.
  - (2G) EXISTING LAVATORY, CARRIER, FAUCET AND ASSOCIATED APPURTENANCE SHALL BE REMOVED. ASSOCIATED WASTE, VENT AND DOMESTIC WATER PIPING SHALL BE REMOVED BACK TO ACTIVE LINE AND CAPPED/PLUG.
  - (2H) EXISTING WALL MOUNTED WATER CLOSET, FLUSH VALVE AND ASSOCIATED APPURTENANCE SHALL BE REMOVED. ASSOCIATED SOIL, VENT AND DOMESTIC WATER PIPING SHALL BE REMOVED BACK TO ACTIVE LINE AND CAPPED/PLUG.
  - (2I) EXISTING WALL MOUNTED CLINICAL SINK, CARRIER, FLUSH VALVE, SPRAY HOSE, FOOT PEDALS AND ASSOCIATED APPURTENANCE SHALL BE REMOVED. ASSOCIATED SOIL, VENT AND DOMESTIC WATER PIPING SHALL BE REMOVED BACK TO ACTIVE LINE AND CAPPED/PLUG.
  - (2J) EXISTING SINK, FAUCET, EMERGENCY EYEWASH AND ASSOCIATED APPURTENANCE SHALL BE REMOVED. ASSOCIATED WASTE, VENT AND DOMESTIC WATER PIPING SHALL BE REMOVED BACK TO ACTIVE LINE AND CAPPED/PLUG.
  - (2K) EXISTING FLOOR MOUNTED WATER DISPENSER AND ASSOCIATED APPURTENANCE SHALL BE REMOVED. ASSOCIATED DOMESTIC WATER PIPING SHALL BE REMOVED BACK TO ACTIVE LINE AND CAPPED/PLUG.
  - (2L) EXISTING FLOOR DRAIN AND HOSE BIBB SHALL BE REMOVED. ASSOCIATED WASTE, VENT AND DOMESTIC WATER PIPING SHALL BE REMOVED BACK TO ACTIVE LINE AND CAPPED/PLUG.
  - (2M) EXISTING 1"HWR DROP TO REMAIN
  - (2N) EXISTING 1" HWR PIPING SHALL BE REMOVED BACK AS INDICATED AND CAPPED.
  - (2P) EXISTING 2" VENT, 1"HWR AND 1"COLD WATER PIPE TO BE REMOVED BACK TO POINT OF DISCONNECT AS INDICATED AND PLUGGED/CAPPED. WITHIN PHASE 2B
  - (2Q) EXISTING 2"WASTE PIPE FROM SCRUB SINK ABOVE TO BE REMOVED BACK TO ACTIVE LINE AND CAPPED. CONTRACTOR TO FIELD VERIFY EXACT LENGTHS OF WASTE PIPE TO REMOVE.
  - (2R) EXISTING SCRUB SINKS TO BE REMOVED. EXISTING WASTE AND DOMESTIC WATER ROUGHING TO BE CAPPED BEHIND WALL.
  - (3A) EXISTING HAND SINK, FAUCET AND ASSOCIATED APPURTENANCE SHALL BE REMOVED. ASSOCIATED WASTE, VENT AND DOMESTIC WATER PIPING SHALL BE REMOVED BACK AS INDICATED.
  - (3B) EXISTING 2" VENT PIPE TO BE REMOVED BACK TO POINT OF DISCONNECT AS INDICATED AND PLUGGED.
  - (3C) EXISTING 1" CW DROP TO REMAIN
  - (3D) EXISTING 1" CW PIPING SHALL BE REMOVED BACK AS INDICATED AND CAPPED.
  - (3E) EXISTING CW TO STEAM GENERATOR TO BE REMOVED
  - (3F) EXISTING SCRUB SINK AND ASSOCIATED APPURTENANCE SHALL BE REMOVED. ASSOCIATED WASTE, VENT AND DOMESTIC WATER PIPING SHALL BE REMOVED BACK TO ACTIVE LINE AND CAPPED/PLUG.
  - (4A) EXISTING SINK TO REMAIN, ASSOCIATED WASTE, VENT AND DOMESTIC WATER SERVICES SHALL REMAIN AND BE ACTIVE THROUGH OUT ALL PHASES OF WORK.

- PLUMBING GENERAL NOTES:**
1. COORDINATE ALL SHUTDOWNS WITH FACILITY OPERATIONS PERSONNEL PRIOR TO COMMENCEMENT OF WORK.
  2. COORDINATE WITH PHASING DRAWINGS AND OVERTIME REQUIREMENTS FOR DEMOLITION, AS REQUIRED.
  3. REFER TO RISER DIAGRAM FOR ADDITIONAL PIPE SIZES.

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3	05/23/2023	Issued for 100% CD's
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Client Name:  
**RICHMOND UNIVERSITY  
MEDICAL CENTER**

Project Name & Location:  
**BI-PLANE EP LAB  
355 BARD AVENUE  
STATEN ISLAND NY**

Drawing Title:  
**PLUMBING  
1ST FLOOR DEMOLITION  
PLAN**

Drawn By: LP	Date: 05/23/2023
Checked By: LP	Scale: AS NOTED

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**CONSTRUCTION DOCUMENTS**

File No.: R2000  
Drawing No.: **DM-101.00**      XX OF XX

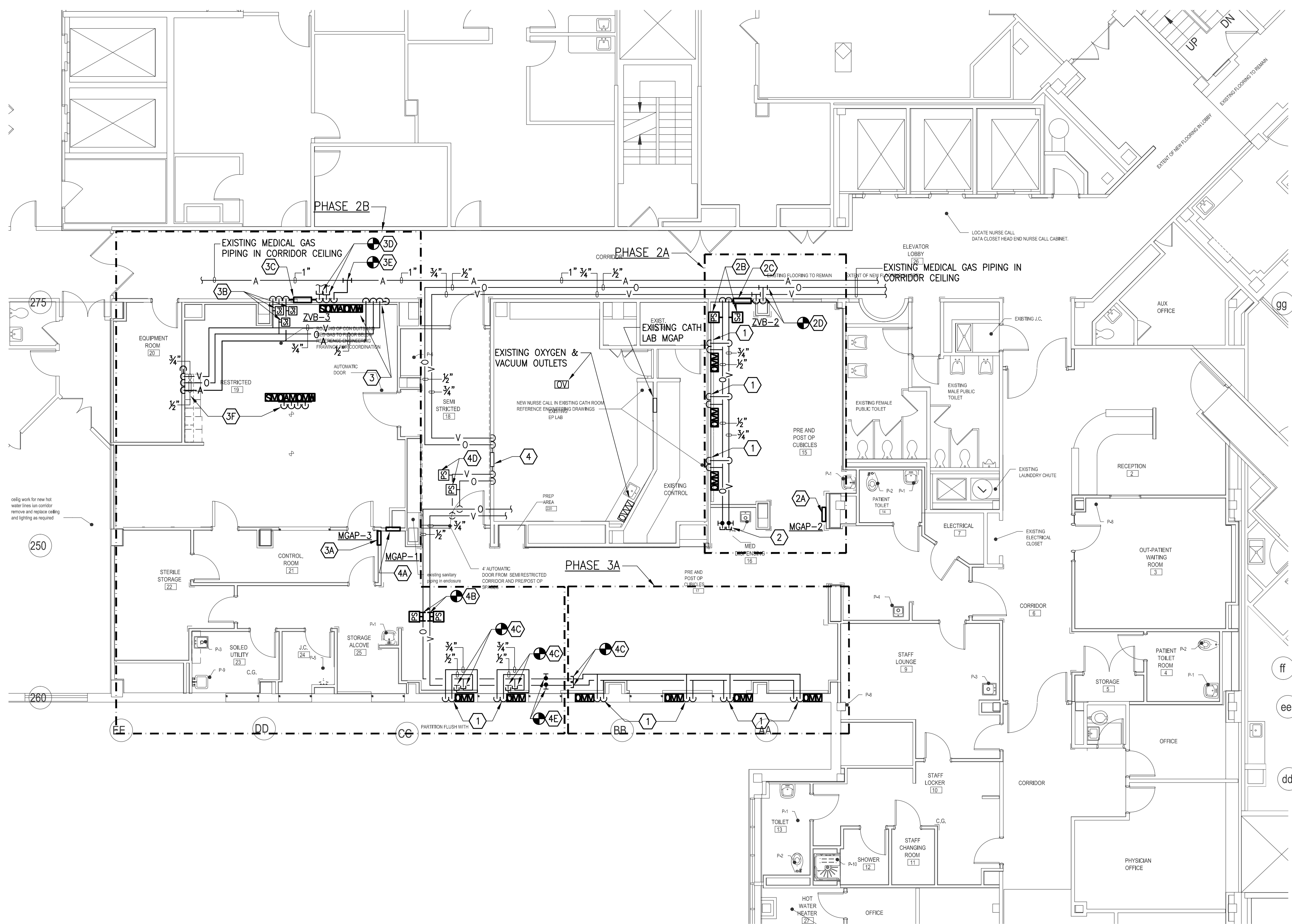




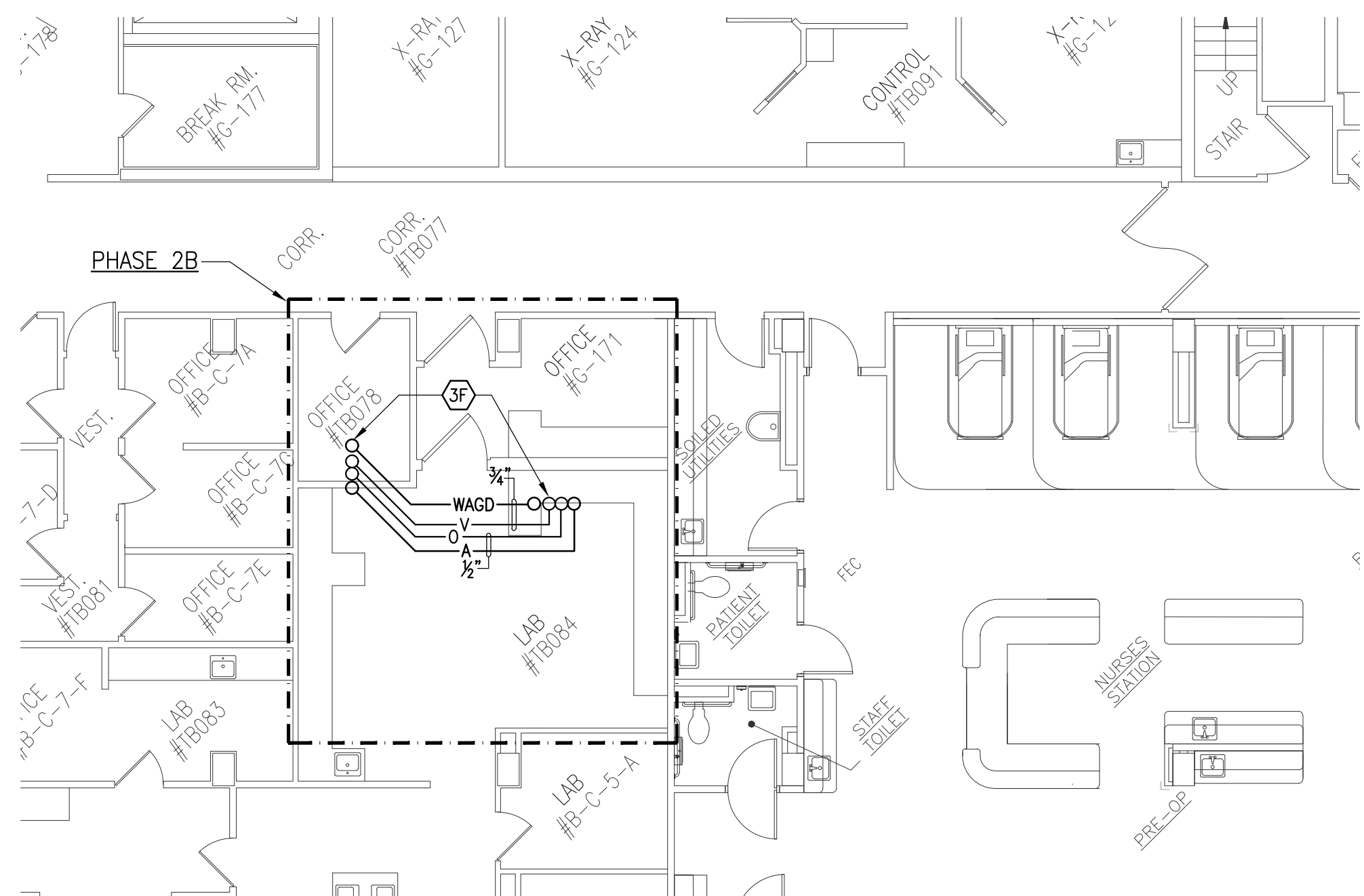
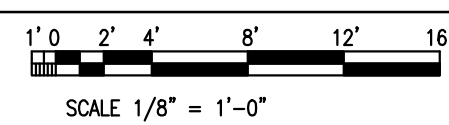




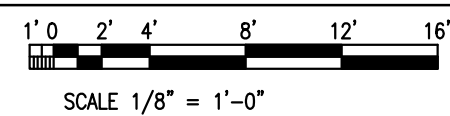




1 PLUMBING 1ST FLOOR MEDICAL GAS CONSTRUCTION PLAN  
SCALE: 1/8" = 1'-0"



2 PLUMBING BASEMENT FLOOR MEDICAL GAS CONSTRUCTION PLAN  
SCALE: 1/8" = 1'-0"



PLUMBING KEY NOTES:

- 1 NEW 1/2" OXYGEN, 3/4" VACUUM TO DROP IN WALL AND CONNECT TO MEDICAL GAS STUB-UP'S FROM (1) OXYGEN OUTLET AND (2) VACUUM OUTLETS.
- 2 NEW 1/2" OXYGEN AND 3/4" VACUUM VALVED CAPPED OUTLET FOR FUTURE.
- 2A NEW PRE AND POST OP MEDICAL GAS ALARM PANEL (MGAP-2) FOR OXYGEN AND VACUUM MONITORING. PANEL TO BE WIRED TO NEW REMOTE SENSORS. PANEL TO BE LABELED PRE AND POST OP BEDS 7,8,9.
- 2B NEW OXYGEN AND VACUUM REMOTE PRESSURE SENSORS TO BE WIRED TO PRE AND POST OP MEDICAL GAS ALARM PANEL (MGAP-2).
- 2C NEW OXYGEN AND VACUUM ZONE VALVE BOX (ZVB-2). BOX TO BE LABELED PRE AND POST OP BEDS 7,8,9.
- 2D PLUMBING CONTRACTOR TO CUT AN CONNECT NEW 1/2" OXYGEN TO EXISTING 1/2" OXYGEN PIPE MAIN AND 3/4" VACUUM TO EXISTING 3/4" VACUUM PIPE MAIN IN CEILING.
- 3 NEW 1/2" OXYGEN, 3/4" VACUUM, 3/4" WAGD AND 1/2" AIR TO DROP IN WALL AND CONNECT TO MEDICAL GAS STUB-UP'S FROM (2) OXYGEN OUTLETS, (1) AIR OUTLET, (2) VACUUM OUTLETS AND (1) WAGD OUTLET. PLUMBING CONTRACTOR TO CONNECT WAGD OUTLET TO VACUUM PIPING A MINIMUM OF 5FT FROM ANY MEDICAL VACUUM INLET.
- 3A NEW INTERVENTIONAL RADIOLOGY MEDICAL GAS ALARM PANEL (MGAP-3) FOR OXYGEN, AIR AND VACUUM MONITORING. PANEL TO BE WIRED TO NEW REMOTE SENSORS. PANEL TO BE LABELED EP-LAB
- 3B NEW OXYGEN, AIR AND VACUUM REMOTE PRESSURE SENSORS TO BE WIRED TO INTERVENTIONAL RADIOLOGY MEDICAL GAS ALARM PANEL (MGAP-3).
- 3C NEW OXYGEN, VACUUM AND MEDICAL AIR ZONE VALVE BOX (ZVB-3). BOX TO BE LABELED EP-LAB.
- 3D PLUMBING CONTRACTOR TO CONNECT NEW 3/4" VACUUM AND 1/2" OXYGEN PIPING TO CAPPED VALVE OUTLETS.
- 3E PLUMBING CONTRACTOR TO CUT AN CONNECT NEW 1/2" AIR PIPE TO EXISTING 1" AIR PIPE IN CEILING.
- 3F NEW 1/2" OXYGEN, 3/4" VACUUM, 3/4" WAGD AND 1/2" AIR TO DROP DOWN TO CEILING OF BASEMENT FLOOR AND RISE TO CONNECT TO MEDICAL GAS STUB-UP'S FROM (2) OXYGEN OUTLETS, (1) AIR OUTLET, (3) VACUUM OUTLETS AND (1) WAGD OUTLET IN BOX. PLUMBING CONTRACTOR TO CONNECT WAGD OUTLET TO VACUUM PIPING A MINIMUM OF 5FT FROM ANY MEDICAL VACUUM INLET.
- 4 EXISTING CATH LAB AND HOLDING MEDICAL GAS ZONE VALVE BOX. ZONE VALVE BOX TO BE RELABELED CATH LAB AND PRE AND POST OP BEDS 1,2,3,4,5,6.
- 4A NEW PRE AND POST OP MEDICAL GAS ALARM PANEL (MGAP-1) FOR OXYGEN AND VACUUM MONITORING. PANEL TO BE WIRED TO NEW REMOTE SENSORS. PANEL TO BE LABELED PRE AND POST OP BEDS 1,2,3,4,5,6.
- 4B EXISTING OXYGEN AND VACUUM BRANCH PIPES TO BE CUT AND NEW OXYGEN AND VACUUM REMOTE PRESSURE SENSORS TO BE CONNECTED. REMOTE PRESSURE SENSORS TO BE WIRED TO PRE AND POST OP MEDICAL GAS ALARM PANEL (MGAP-1).
- 4C CONNECT NEW 1/2" OXYGEN AND 3/4" VACUUM TO EXISTING OXYGEN AND VACUUM CAPPED OUTLETS.
- 4D EXISTING OXYGEN AND VACUUM REMOTE PRESSURE SENSORS TO REMAIN. PLUMBING CONTRACTOR TO TAKE CAUTION AS TO NOT TO DAMAGE SENSORS.
- 4E PLUMBING CONTRACTOR TO PROVIDE, INSTALL AND CONNECT NEW 1/2" OXYGEN VALVE AND 3/4" VACUUM VALVE TO EXISTING OXYGEN AND VACUUM PIPING.

PLUMBING GENERAL NOTES:

- 1. COORDINATE ALL SHUTDOWNS WITH FACILITY OPERATIONS PERSONNEL PRIOR TO COMMENCEMENT OF WORK.
- 2. COORDINATE WITH ARCHITECTURAL PHASING AND OVERTIME REQUIREMENTS FOR CONSTRUCTION, AS REQUIRED.
- 3. ALL PLUMBING FIXTURES OUTSIDE OF THIS PROJECT SCOPE OF WORK AREA, SHALL REMAIN ACTIVE. ALL CW, HW, V, AND SAN PIPING WHICH SUPPLIES PLUMBING FIXTURES OUTSIDE THE AREA OF WORK SHALL REMAIN.
- 4. REFER TO RISER DIAGRAM FOR ADDITIONAL PIPE SIZES.
- 5. THE NEW ULTRASUITE CLEAN CEILING SYSTEM SHALL BE PROVIDED BY CM AND INSTALLED BY OTHERS. THE SYSTEM SHALL BE EQUIPPED WITH LAMINAR FLOW DIFFUSERS, HEPA FILTERS, LIGHTING, ETC. REFER TO THE ARCHITECTURAL DRAWINGS FOR DETAILS. PLUMBING CONTRACTOR TO COORDINATE ALL PLUMBING PIPING AT CEILING WITH THE ULTRASUITE CLEAN CEILING SYSTEM.

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Client Name:

**RICHMOND UNIVERSITY  
MEDICAL CENTER**

Project Name & Location:

BI-PLANE EP LAB  
355 BARD AVENUE  
STATEN ISLAND NY

Drawing Title:

**PLUMBING  
1ST FLOOR MEDICAL GAS  
CONSTRUCTION PLAN**

Drawn By:	Date:
LP	05/23/2023
Checked By:	Scale:
LP	AS NOTED

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File No.: R2000

Drawing No.:  
**P-202.00**

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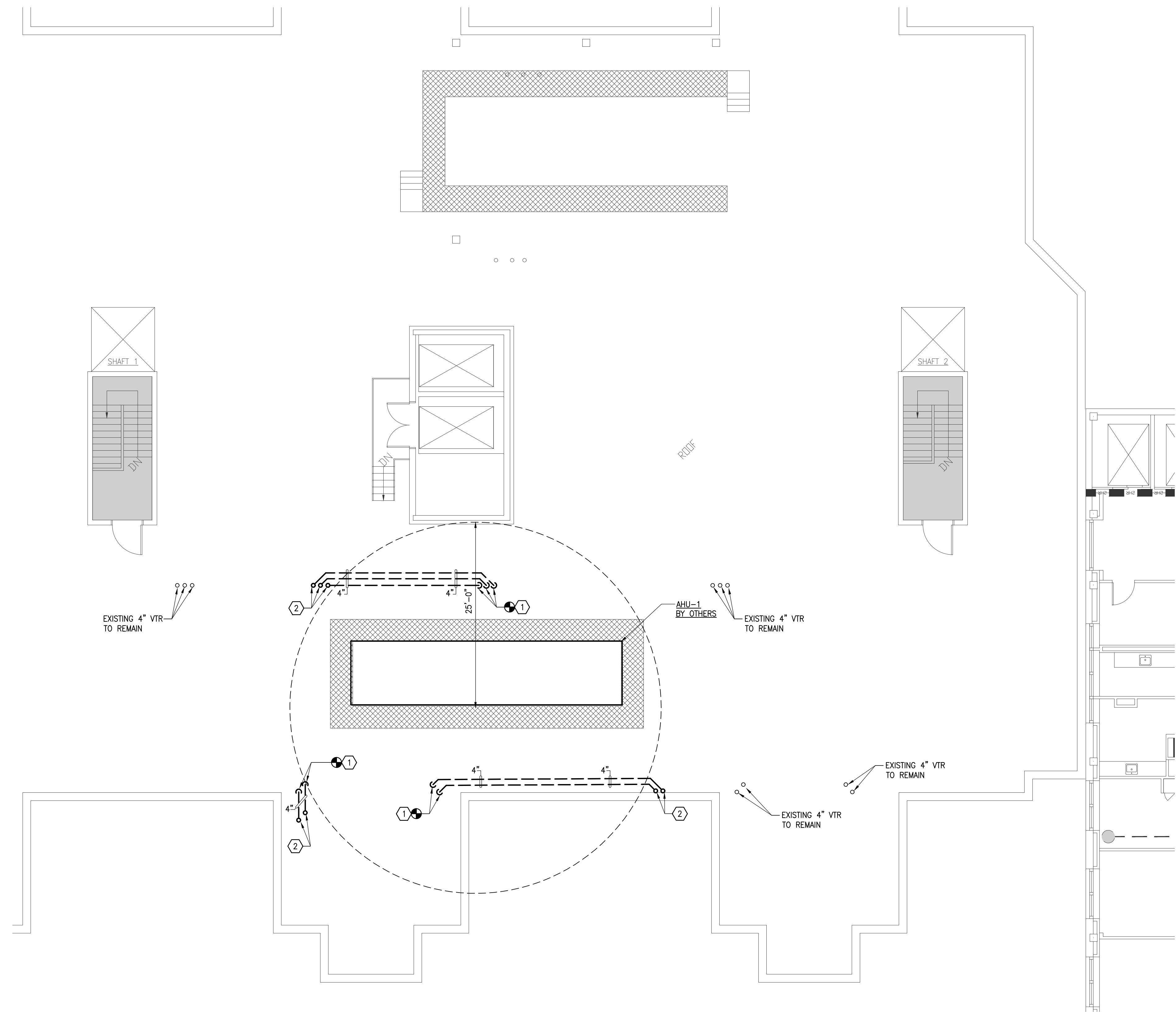
Consultants:

**Lilker Associates**  
Mechanical and Electrical Engineers  
1001 Avenue of the Americas  
New York, NY 10018  
tel 212.695.1000  
fax 212.695.1299  
www.lilker.com



**PLUMBING KEY NOTES:**

- ① PLUMBING CONTRACTOR TO OFF-SET AND EXTEND EXISTING 4" VENT PIPES THRU ROOF AS INDICATED IN ORDER TO BE BEYOND THE MINIMUM REQUIRED DISTANCE OF 25 FEET FROM THE NEW AIR HANDLING UNIT FRESH AIR INTAKE. VENT PIPE SHALL BE PITCH TOWARDS THE DRAINAGE SYSTEM. PLUMBING CONTRACTOR SHALL COORDINATE VENT TERMINATION WITH MECHANICAL CONTRACTOR.
- ② PLUMBING CONTRACTOR TO EXTEND 4" VERTICAL VENT PIPE 24" ABOVE THE CENTERLINE OF THE HORIZONTAL VENT PIPE.



① PLUMBING ROOF CONSTRUCTION PLAN  
SCALE: 1/8" = 1'-0"

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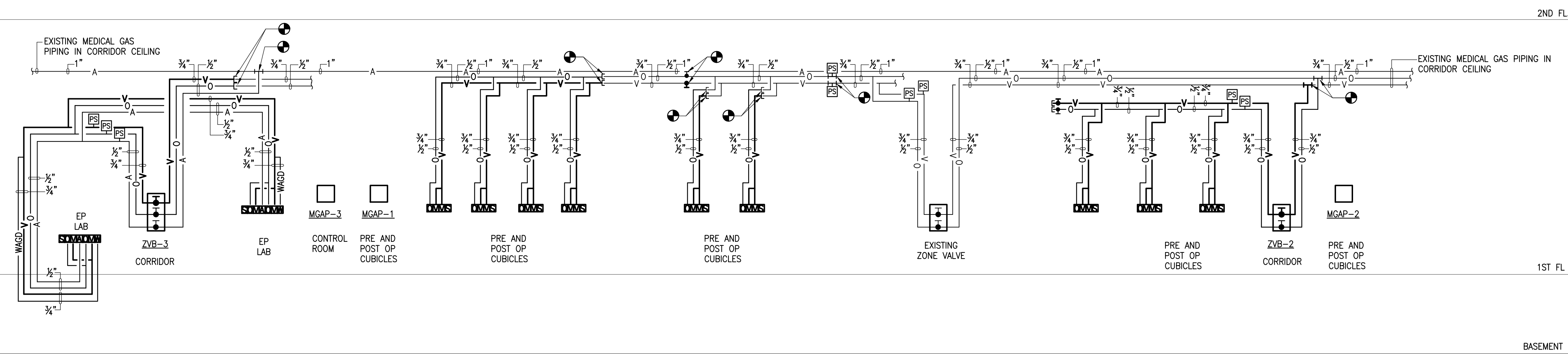
Project Name & Location:  
**BI-PLANE EP LAB  
355 BARD AVENUE  
STATEN ISLAND NY**

Drawing Title:  
**PLUMBING  
ROOF CONSTRUCTION  
PLAN**

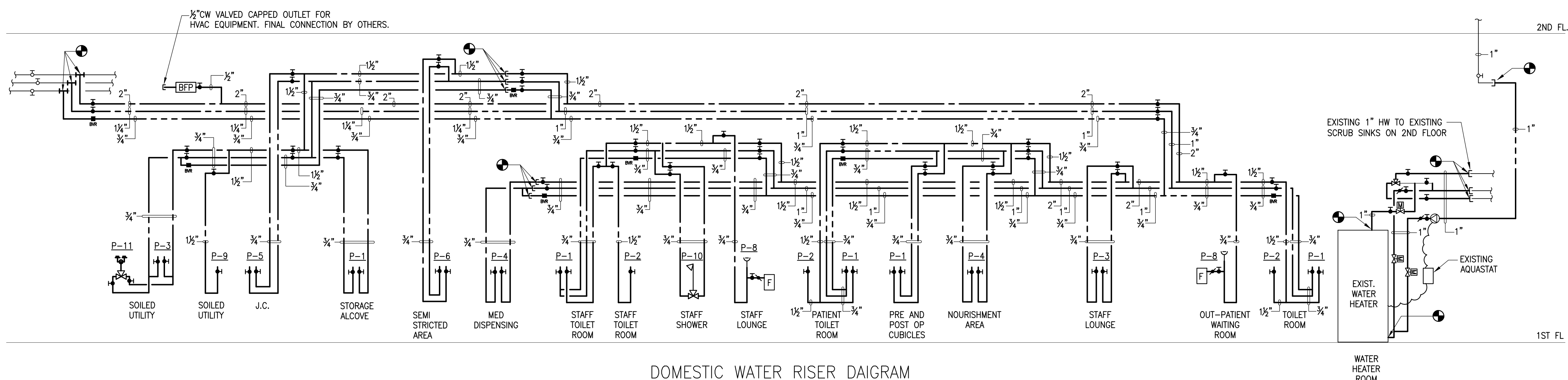
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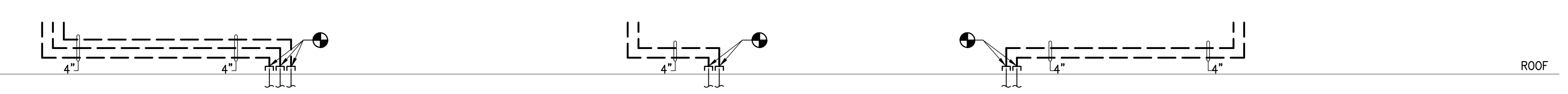
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Drawing No.: **P-203.00**      XX OF XX



MEDICAL GAS RISER DIAGRAM



DOMESTIC WATER RISER DAIGRAM



SANITARY & VENT RISER DIAGRAM

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Project Name & Location:  
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355 BARD AVENUE  
STATEN ISLAND NY**

Drawing Title:  
**PLUMBING  
RISER DIAGRAMS**

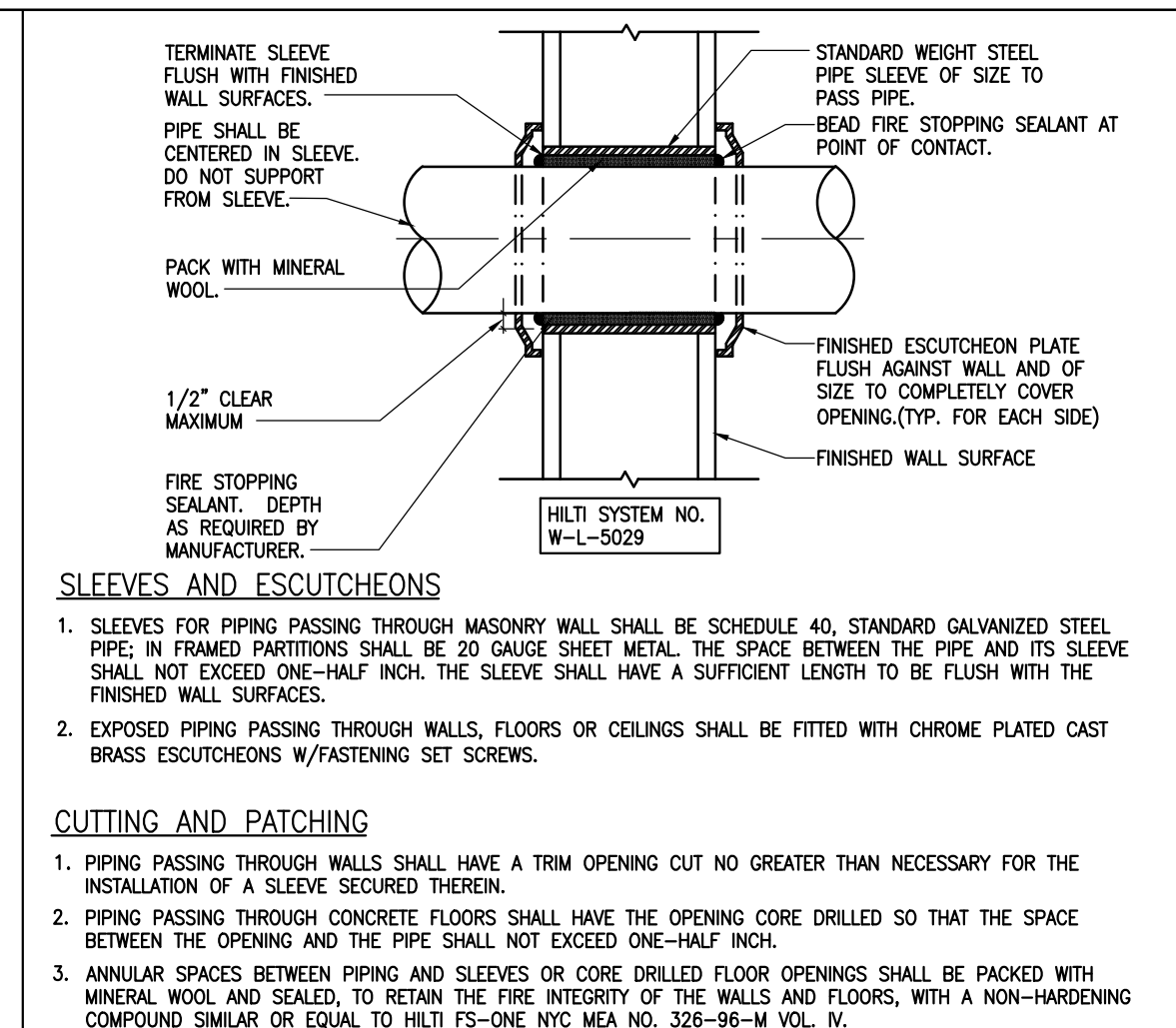
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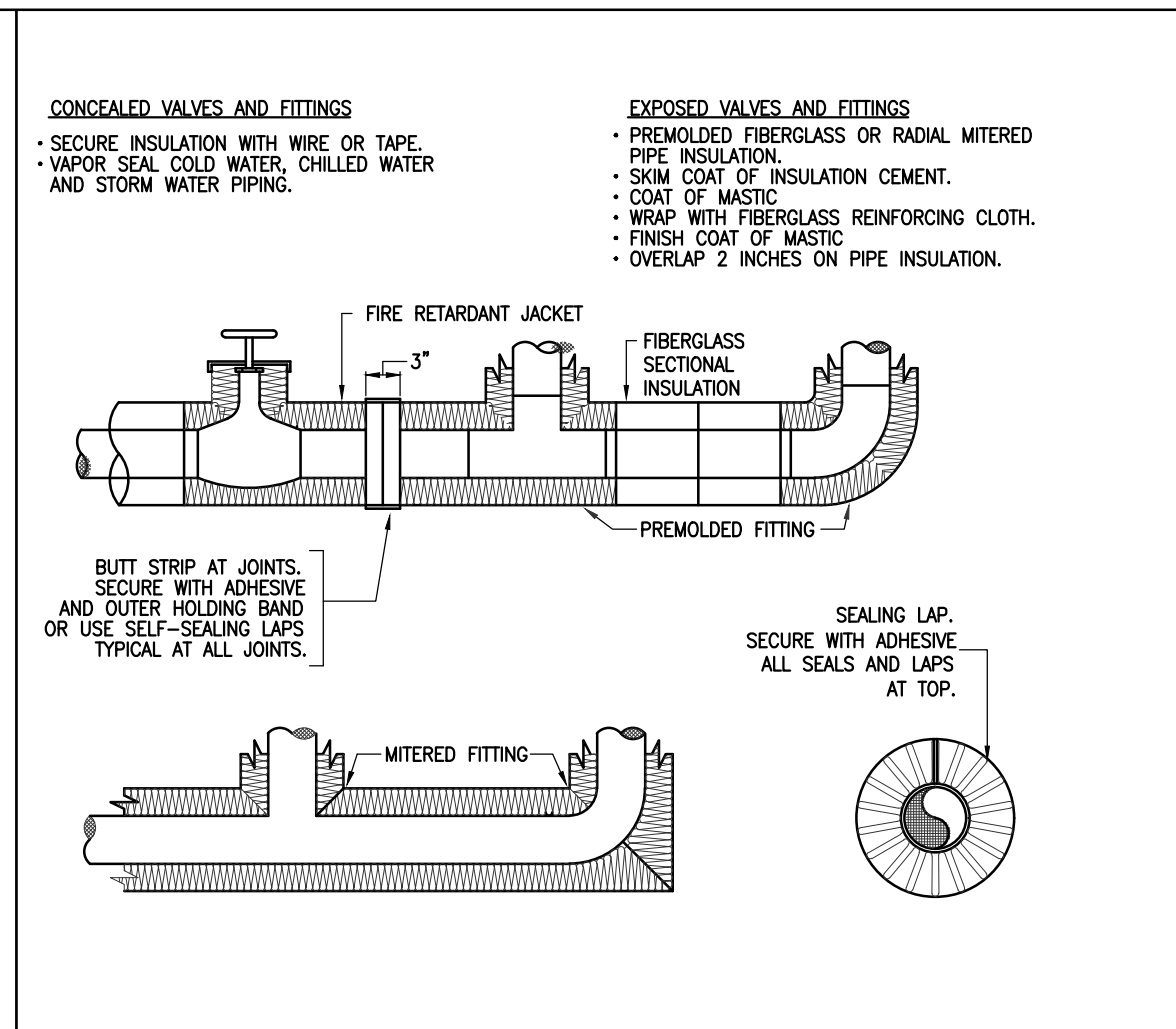
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Drawing No.: **P-301.00**      XX OF XX

Revision: P-301.00 - R2000 - RICHMOND UNIVERSITY MEDICAL CENTER - BI-PLANE EP LAB - PLUMBING RISER DIAGRAMS - 05/23/2023 10:00 AM

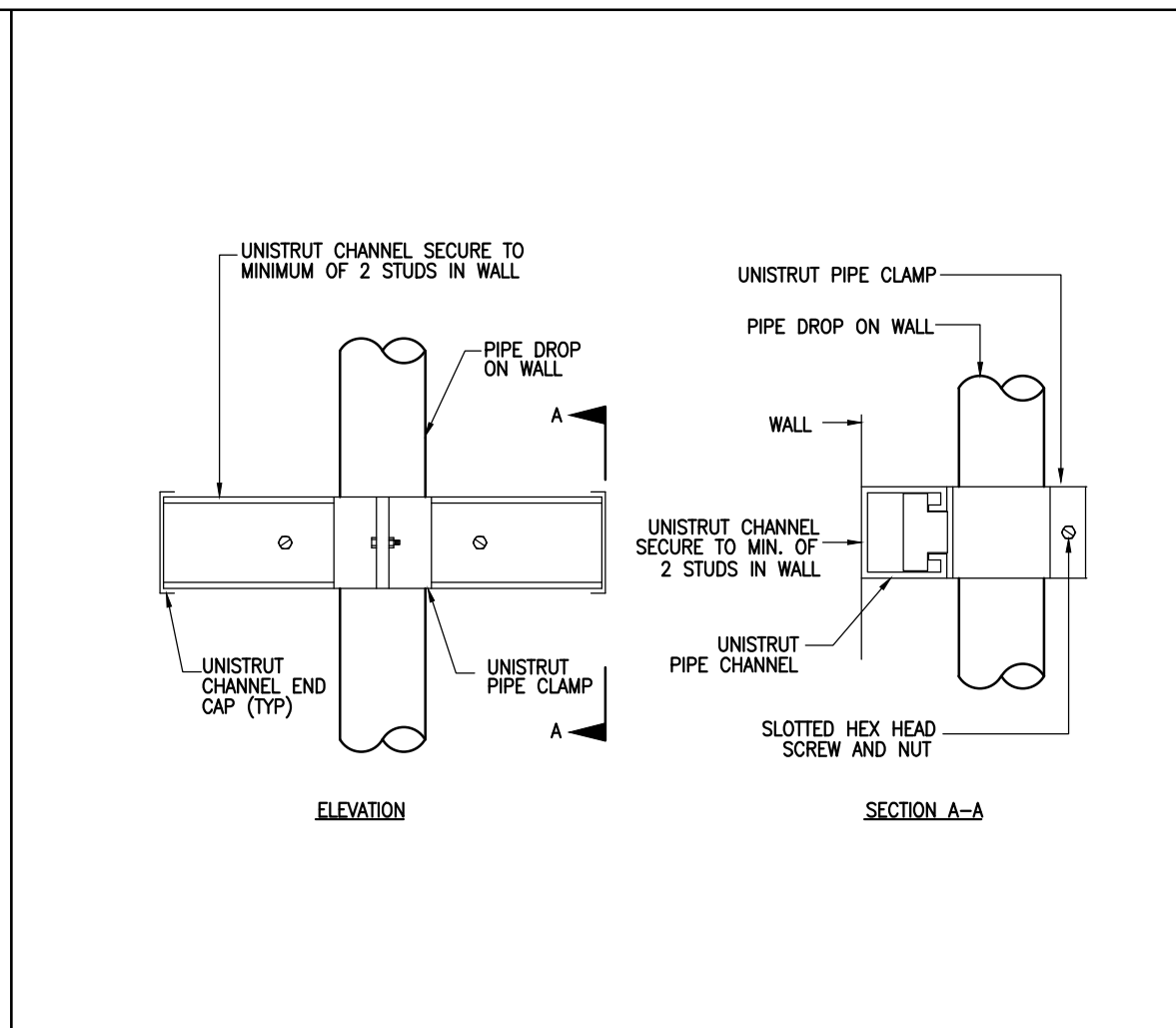




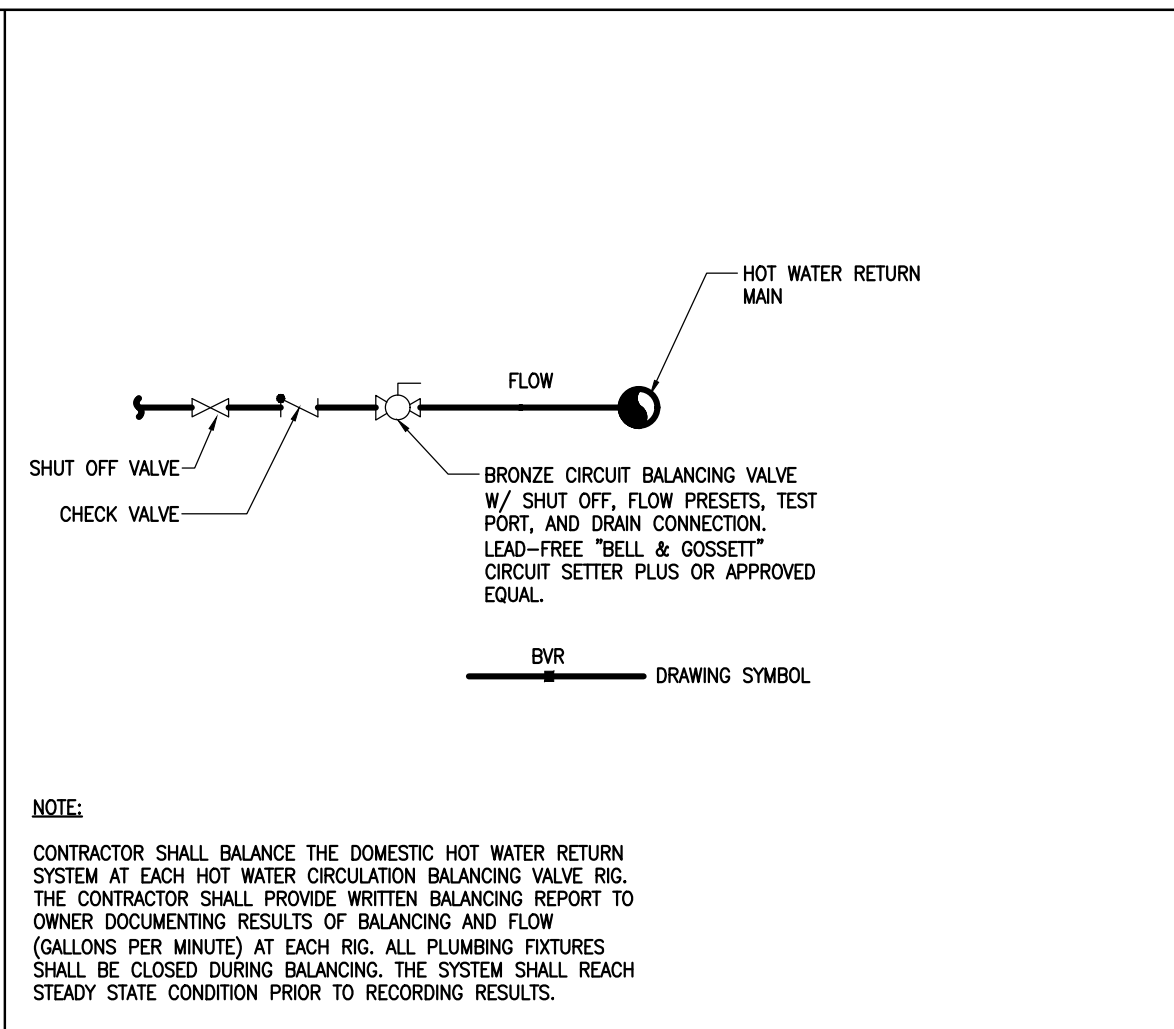
220517 TYPICAL DETAIL OF BARE PIPE INSTALLATION THROUGH RATED CONSTRUCTION



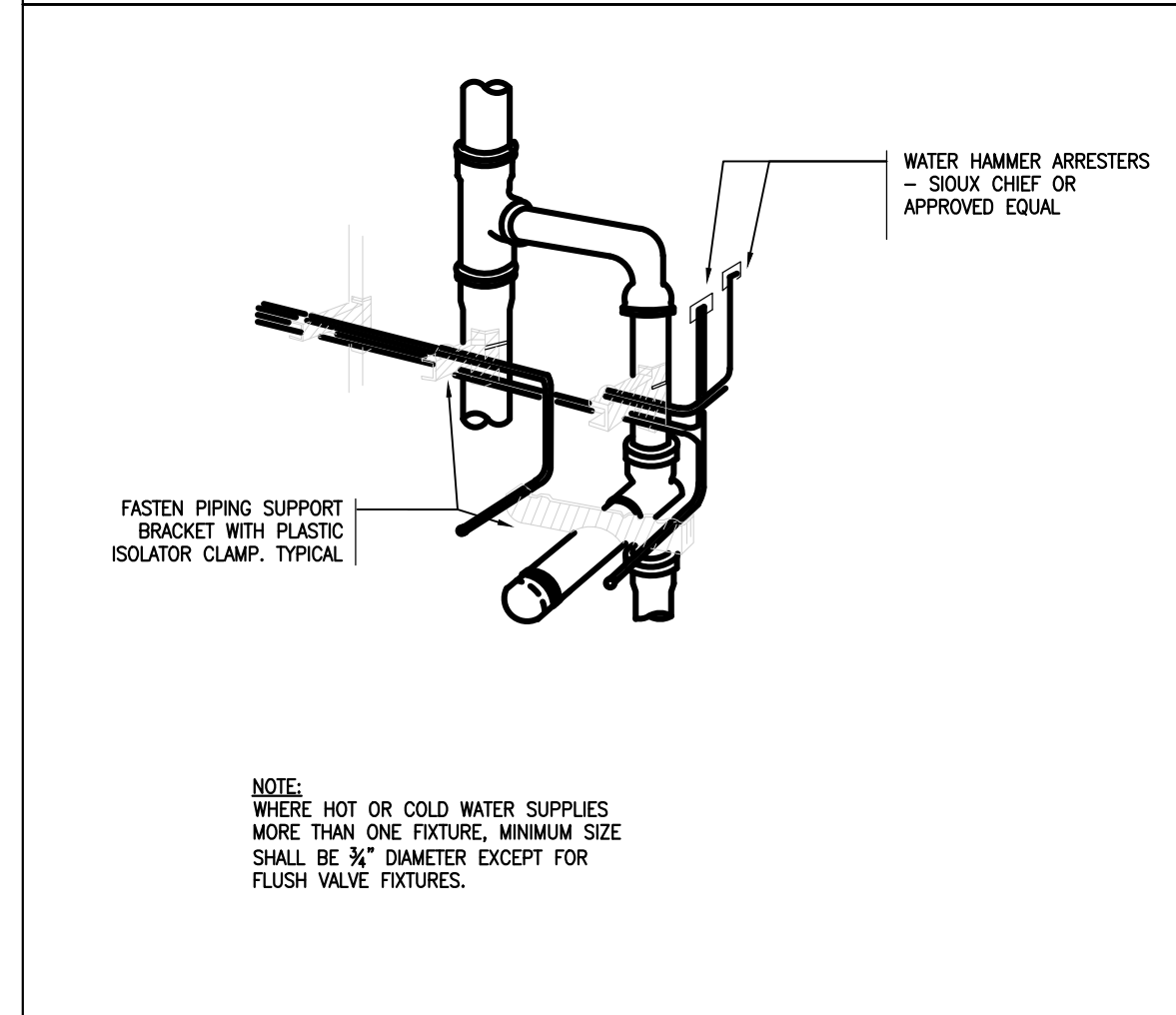
220700 INSULATION OF PIPING, VALVES, AND FITTINGS FOR EXPOSED AND CONCEALED LOCATIONS



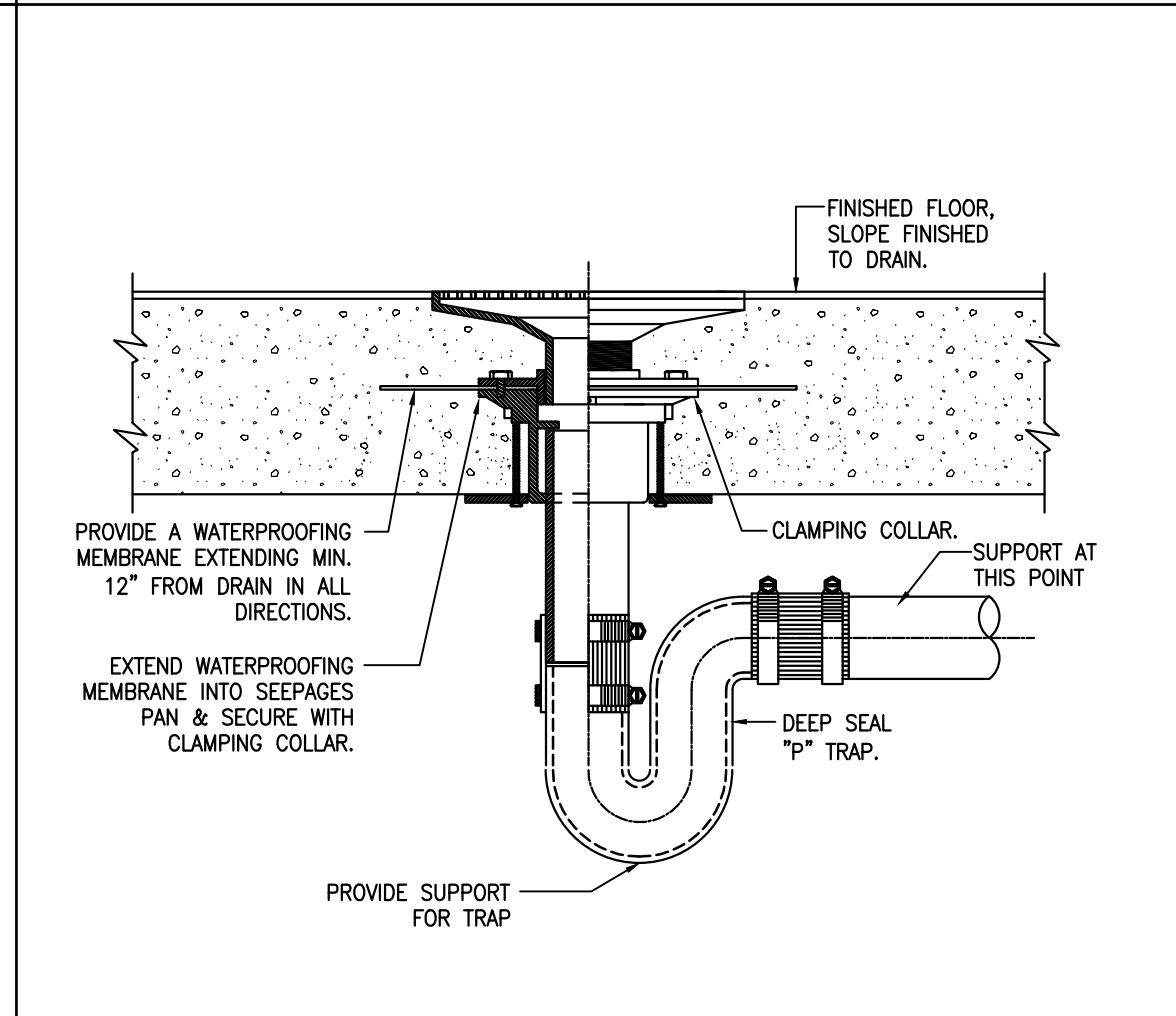
220529 PIPE SUPPORT AT WALL



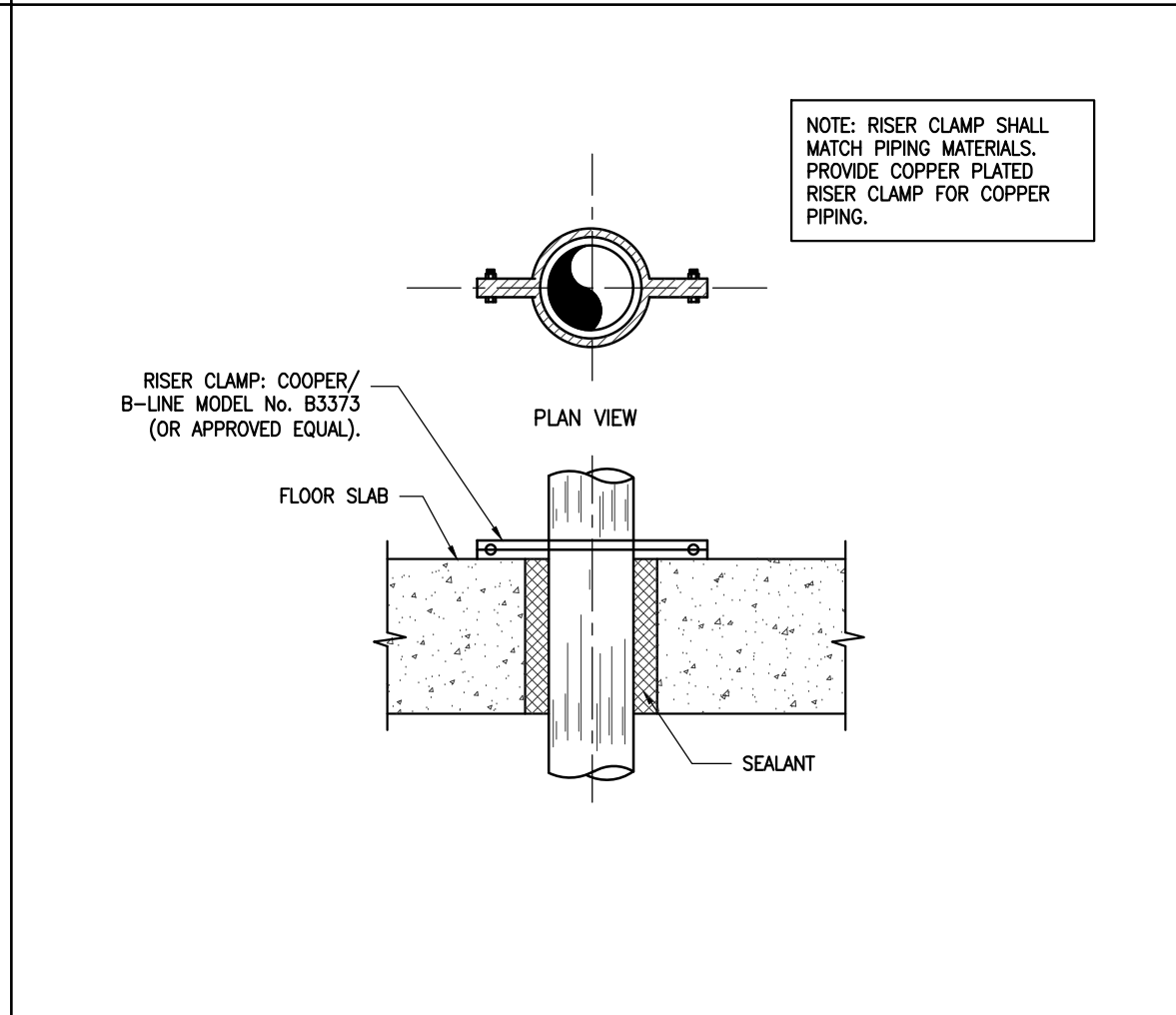
223300 HOT WATER BALANCING VALVE



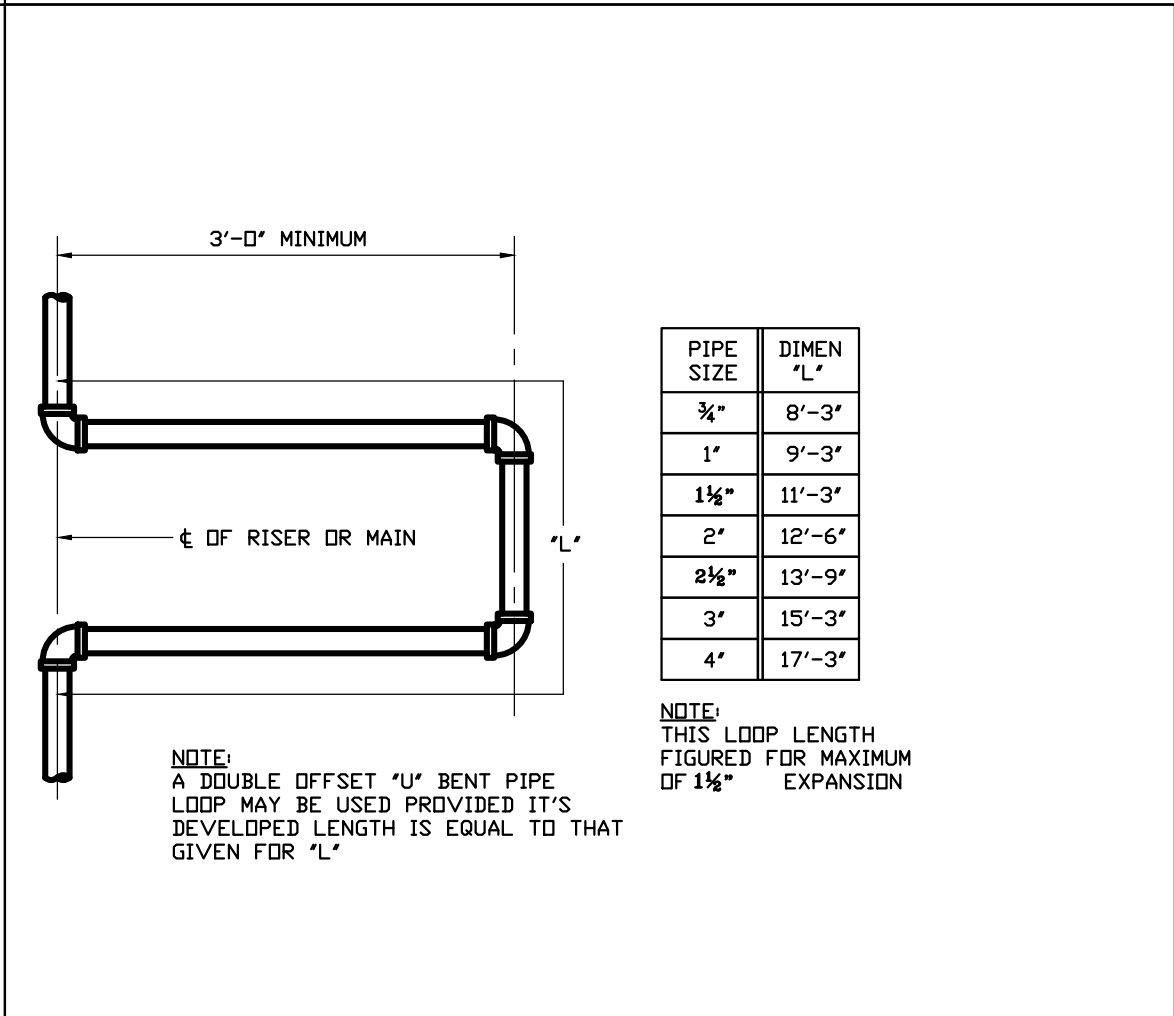
224000 SUPPORT FOR BRANCH PIPING



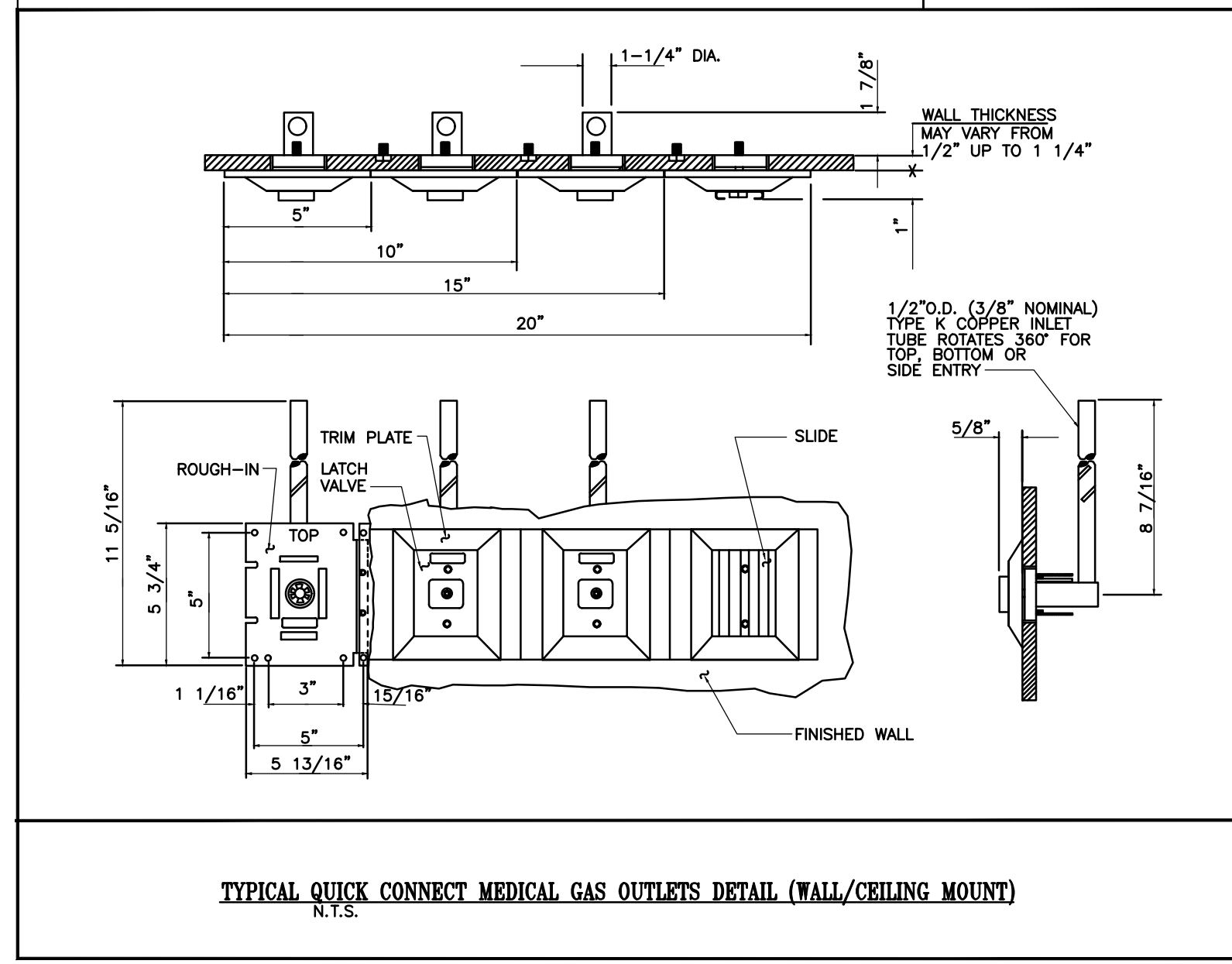
220529 FLOOR DRAIN INSTALLATION DETAIL



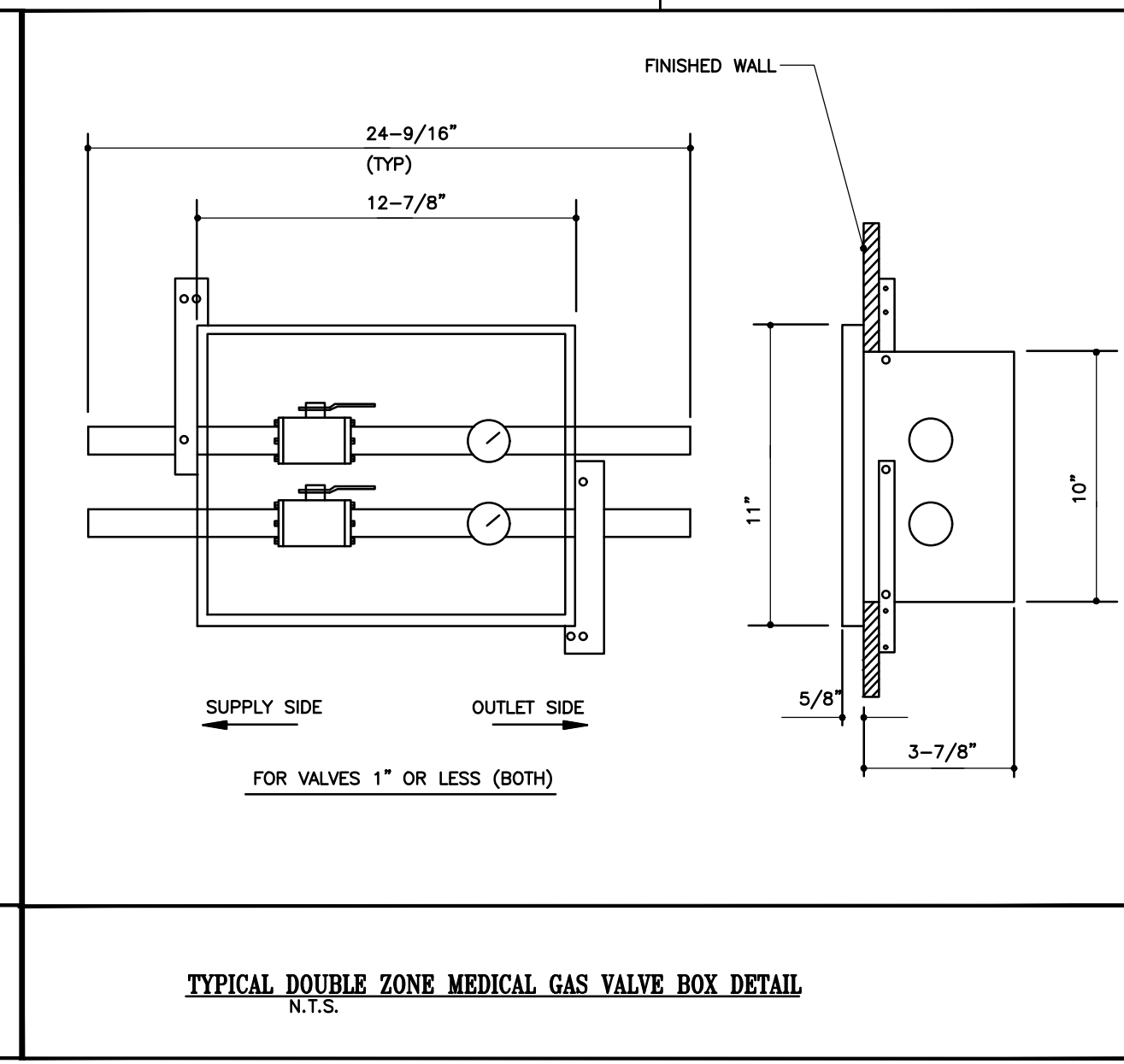
220529 PIPE SLEEVE THROUGH FLOOR SLAB



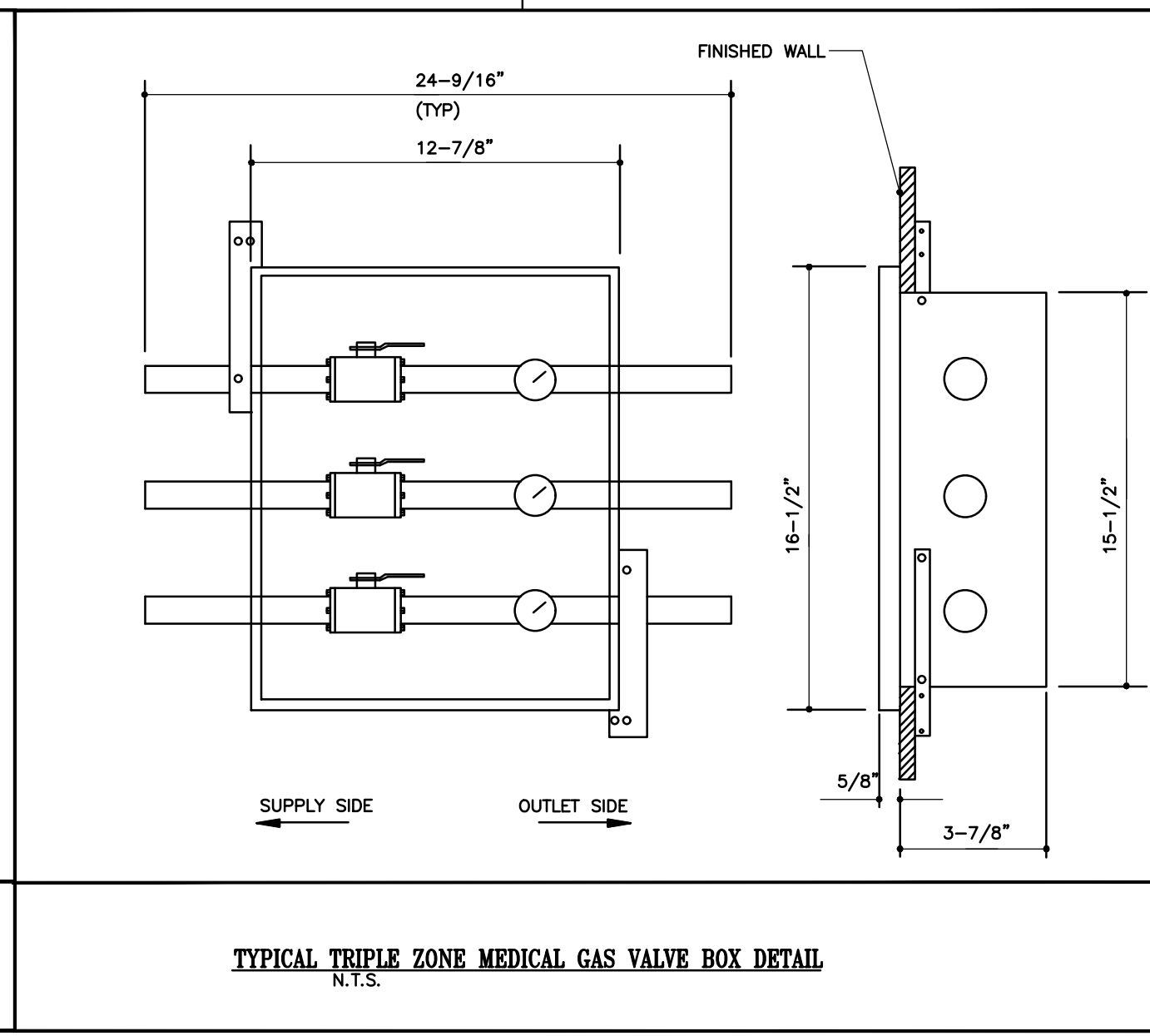
221116 FOUR ELBOW EXPANSION LOOP



220529 TYPICAL QUICK CONNECT MEDICAL GAS OUTLETS DETAIL (WALL/CEILING MOUNT) N.T.S.



220529 TYPICAL DOUBLE ZONE MEDICAL GAS VALVE BOX DETAIL N.T.S.



220529 TYPICAL TRIPLE ZONE MEDICAL GAS VALVE BOX DETAIL N.T.S.

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**SCHUNKIEWITZ**  
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355 BARD AVENUE  
STATEN ISLAND NY

Drawing Title:  
**PLUMBING  
DETAILS SHEET 1**  
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SECTION 011000 - GENERAL REQUIREMENTS

- A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION", AIA DOCUMENT A201-2007, AND THIS SPECIFICATION AS APPLICABLE ARE PART OF THIS CONTRACT.
B. MATERIALS AND WORKMANSHIP, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS, LOCAL CODES AND/OR AS SPECIFIED, WHICH EVER IS MOST STRINGENT.
C. ALL CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS.
D. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES.
E. SUPPORT ALL PIPING AND EQUIPMENT FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER.
F. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR.
G. REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK WILL BE NECESSARY FOR THE PERFORMANCE OF GENERAL WORK.
H. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTION OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK AND THE ACCESS TO THESE SPACES HAS BEEN MADE, AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES ENCOUNTERED THAT COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION.
I. CONNECT NEW WORK TO EXISTING WORK IN NEAT AND APPROVED MANNER.
J. DISCONNECT, REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW SYSTEM.
K. SEAL OPENINGS AROUND PIPING THROUGH PARTITIONS, WALLS AND FLOORS (NOT IN SHAFTS) WITH LINK-SEALS, MINERAL WOOL OR OTHER NON-COMBUSTIBLE MATERIAL.
L. ACCESS TILE IDENTIFICATION: PROVIDE BUTTONS, TABS AND MARKERS TO IDENTIFY LOCATION OF CONCEALED VALVES WHICH MUST BE ACCESSIBLE FOR MAINTENANCE AND REQUIRE REMOVABLE CEILING TILES, ACCESS DOORS, OR ACCESS PANELS.
M. PROVIDE ALL NECESSARY FLASHING AND COUNTER-FLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THIS BUILDING AS REQUIRED FOR THE INSTALLATION OF PIPES, CONDUIT, AND EQUIPMENT.
N. ALL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED.
O. PRIOR TO SUBMITTING A BID, CONTRACTOR SHALL OBTAIN A COPY OF THE BUILDING INSPECTION REPORT AND SHALL INCLUDE IN THE BID PRICE ALL ITEMS, MATERIAL, CHARGES AND/OR LABOR REQUIRED TO FULLY COMPLY WITH BUILDING STANDARDS.
P. THE CONTRACTOR SHALL BE RESPONSIBLE TO ARRANGE AND PAY FOR ALL SPECIAL INSPECTIONS AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
Q. VERIFY THAT ELECTRICAL CHARACTERISTICS OF EQUIPMENT ARE COMPATIBLE TO EXISTING AND/OR PROPOSED BUILDING SYSTEM ELECTRIC PRIOR TO ORDERING EQUIPMENT.
R. PRIOR TO ORDERING EQUIPMENT, VERIFY THAT ELECTRICAL CHARACTERISTICS OF EQUIPMENT ARE THE SAME AS THE EQUIPMENT USED AS THE BASIS OF DESIGN, INCLUDING LOAD, REQUIRED WIRE SIZE, BREAKER SIZE AND CONTROL.
S. CONTRACT DOCUMENTS:
1. ALL PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS.
T. SCOPE OF WORK:
1. THE WORK UNDER THIS CONTRACT INCLUDES ALL LABOR, MATERIALS AND APPLIANCES NECESSARY FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS.
U. CODES, PERMITS AND INSPECTIONS:
1. PERMITS
a. OBTAIN PERMITS, PAY FEES AND ISSUE NOTICES, REQUIRED BY STATE AND LOCAL CODES, MUNICIPALITIES AND AUTHORITIES HAVING JURISDICTION.
b. PROVIDE REQUIRED DRAWINGS, CALCULATIONS, AND TESTING ALL PERFORMED BY A LICENSED ENGINEER IN THE STATE WHERE THE WORK SHALL TAKE PLACE.
c. PROVIDE COPIES OF PERMITS, CERTIFICATES, AND TEST REPORTS TO THE ENGINEER.
2. THIS CONTRACTOR SHALL PERFORM ALL CONTROLLED INSPECTIONS AS REQUIRED AND OBTAIN ALL PERMITS AS REQUIRED BY STATE AND LOCAL AUTHORITIES.
V. BUILDING RULES, REGULATIONS AND WORK RESTRICTIONS
1. PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE NO INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES.
2. THE WORK IN THE BUILDING SHALL BE DONE WHEN AND AS DIRECTED, AND IN A MANNER SATISFACTORY TO THE OWNER.
3. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS.

SECTION 011000 - GENERAL REQUIREMENTS (CONT.)

- 4. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES, ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK.
5. ASSUME THAT BASE BUILDING INTERRUPTIONS ARE TO BE PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
6. NOTIFY ENGINEER AND OWNER NOT LESS THAN (7) DAYS IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS.
7. COORDINATE OPERATIONS THAT MAY RESULT IN HIGH LEVELS OF NOISE AND VIBRATION (INCLUDING BUT NOT LIMITED TO: CHOPPING, CORE DRILLING, ETC.), ODORS OR OTHER DISRUPTIONS TO BUILDING OCCUPANTS WITH OWNER.
W. DEFINITIONS
1. "EXPERIENCED" SHALL MEAN HAVING SUCCESSFULLY COMPLETED A MINIMUM OF SEVEN YEARS OF EXPERIENCE WITH PREVIOUS PROJECTS SIMILAR IN NATURE, SIZE, AND EXTENT TO THIS PROJECT.
X. CUTTING AND PATCHING:
1. INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING.
Y. GUARANTEE/WARRANTY
1. CONTRACTOR SHALL GUARANTEE THE INSTALLATION OF HIS WORK FOR A PERIOD OF ONE (1) YEAR FOLLOWING ACCEPTANCE OF ENTIRE PROJECT BY THE OWNER.
Z. RIGGING
1. CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING, LADDERS, AND SERVICES NECESSARY FOR ACCESS TO WORK SPACES, FOR DELIVERY INTO THE BUILDING, AND FOR THE SETTING IN PLACE OF ANY MATERIAL, EQUIPMENT OR APPARATUS TO BE FURNISHED AND/OR INSTALLED.
2. WHERE NECESSARY TO USE THE BUILDING ELEVATOR TO MOVE EQUIPMENT, FIELD VERIFY EXISTING ELEVATOR CAB SIZE AND WEIGHT RESTRICTIONS PRIOR TO BID AND AGAIN PRIOR TO BRINGING EQUIPMENT TO THE SITE.

SECTION 018113 - SUSTAINABLE DESIGN REQUIREMENTS

- A. INSULATION
1. ALL FIBERGLASS INSULATION PRODUCTS SHALL BE MANUFACTURED FROM RECYCLED GLASS WITH A MINIMUM OF 30% POST CONSUMER RECYCLED CONTENT BY WEIGHT.
B. ADHESIVES
1. ALL ADHESIVES USED ON THIS PROJECT MUST NOT EXCEED THE VOC CONTENT LIMITS OF:
a. ADHESIVES, SEALANTS AND SEALANT PRIMERS: SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE # 1168 REQUIREMENTS IN EFFECT ON JANUARY 1, 2003 AND RULE AMENDMENT DATED OCTOBER 3, 2003.
b. AEROSOL ADHESIVES: GREEN STANDARD GC-36 REQUIREMENTS IN EFFECT ON OCTOBER 19, 2000.
2. ALL ADHESIVES USED ON THIS PROJECT SHALL BE OF THE TYPE HAVING LIMITED CAPABILITY TO EMIT VOLATILE ORGANIC COMPOUNDS.
C. SEALANTS
1. ALL SEALANTS USED ON THIS PROJECT MUST NOT EXCEED THE VOC CONTENT LIMITS OF:
a. ADHESIVES, SEALANTS AND SEALANT PRIMERS: SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE # 1168 REQUIREMENTS IN EFFECT ON JANUARY 1, 2003 AND RULE AMENDMENT DATED OCTOBER 3, 2003.
b. AEROSOL ADHESIVES: GREEN STANDARD GC-36 REQUIREMENTS IN EFFECT ON OCTOBER 19, 2000.
D. PAINTS
1. ALL PAINTS USED FOR EQUIPMENT AND SYSTEMS TO BE INSTALLED ON THIS PROJECT SHALL COMPLY WITH GREEN SEAL PRODUCT REQUIREMENTS.
E. METALLIC PIPING (COPPER, STEEL, & CAST IRON)
1. ALL METALLIC PIPING SHALL BE FABRICATED FROM MATERIALS MANUFACTURED WITH A MINIMUM RECYCLED CONTENT OF 20% POST-CONSUMER RECYCLED CONTENT MATERIAL BY WEIGHT OF 40% POST-INDUSTRIAL RECYCLED CONTENT MATERIAL.
SECTION 078413 - PENETRATION FIRESTOPPING
A. PROVIDE UL-LISTED FIRE STOPPING ASSEMBLIES FOR PENETRATIONS IN ALL FIRE OR SMOKE RESISTANCE RATED WALLS, FLOORS, ROOFS, AND OTHER ASSEMBLIES.
B. USE FIRE STOPPING MATERIALS AND ASSEMBLIES THAT ARE UL LISTED AND HAVE A RATING EQUAL TO THE BARRIER OR ASSEMBLY WHICH IS PENETRATED.
C. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
a) HILTI, INC.
b) RECTORSEAL CORPORATION.
c) 3M FIRE PROTECTION PRODUCTS.
D. PENETRATION FIRESTOPPING: RESIST PASSAGE OF SMOKE AND OTHER GASES, AND MAINTAIN ORIGINAL FIRE-RESISTANCE RATING OF CONSTRUCTION PENETRATED.
1. PENETRATIONS IN FIRE-RESISTANCE-RATED WALLS: RATINGS DETERMINED PER ASTM E 814 OR UL 1479, BASED ON TESTING AT A POSITIVE PRESSURE DIFFERENTIAL OF 0.01-INCH WC.
2. PENETRATIONS IN HORIZONTAL ASSEMBLIES: RATINGS DETERMINED PER ASTM E 814 OR UL 1479, BASED ON TESTING AT A POSITIVE PRESSURE DIFFERENTIAL OF 0.01-INCH WC.

SECTION 078413 - PENETRATION FIRESTOPPING (CONT.)

- 3. PENETRATIONS IN SMOKE BARRIERS: PROVIDE PENETRATION FIRESTOPPING WITH RATINGS DETERMINED PER UL 1479.
4. ACCESSORIES: PROVIDE COMPONENTS M M FOR EACH PENETRATION FIRESTOPPING SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS AND TO MAINTAIN RATINGS.
E. INSTALLATION
1. INSTALL PENETRATION FIRESTOPPING TO COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND PUBLISHED DRAWINGS FOR PRODUCTS AND APPLICATIONS INDICATED.
2. INSTALL FILL MATERIALS FOR FIRESTOPPING BY PROVEN TECHNIQUES TO FILL VOIDS AND CAVITIES FORMED BY OPENINGS, FORMING MATERIALS, ACCESSORIES, AND PENETRATING ITEMS AS REQUIRED TO ACHIEVE FIRE-RESISTANCE RATINGS INDICATED.
3. IDENTIFY PENETRATION FIRESTOPPING WITH PREPRINTED METAL OR PLASTIC LABELS ATTACH LABELS PERMANENTLY TO SURFACES ADJACENT TO AND WITHIN 6 INCHES OF FIRESTOPPING EDGE SO LABELS WILL BE VISIBLE TO ANYONE SEEKING TO REMOVE PENETRATING ITEMS OR FIRESTOPPING.
F. FIELD QUALITY CONTROL
1. OWNER WILL ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM TESTS AND INSPECTIONS WHERE DEFICIENCIES ARE FOUND OR PENETRATION FIRESTOPPING IS DAMAGED OR REMOVED.
SECTION 220000 - COMMON WORK REQUIREMENTS
A. ESCUTCHEONS: FOR PIPING PASSING FLOORS, CEILINGS, WALL OR PARTITIONS: PROVIDE CHROME PLATED CAST BRASS OR CAST IRON ESCUTCHEONS.
B. SLEEVES: FOR PIPING PASSING FLOORS, CEILINGS, WALL OR PARTITIONS: PROVIDE NO. 22 USSG GALVANIZED IRON SLEEVES EXTENDED THROUGH CONSTRUCTION.
C. DRIP PAN
1. PROVIDE UNDER PIPING WHEN INSTALLED OVER OR WITHIN 5 FEET OF ELECTRICAL APPARATUS OR IN ROOMS CONTAINING ELECTRICAL EQUIPMENT OR UNDER DRAINAGE FOR PIPING AT CEILING OF FOOD PREPARATION AREAS.
SECTION 220508 - TESTING, ADJUSTING, AND BALANCING
A. DEFECTS DISCLOSED BY THE TESTS SHALL BE REPAIRED OR REPLACED.
B. TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO THE BUILDING AND ITS CONTENTS AS A RESULT OF SUCH TESTS.
C. HOT WATER CIRCULATION: CONTRACTOR SHALL BALANCE THE DOMESTIC HOT WATER RETURN SYSTEM AT EACH HOT WATER CIRCULATION BALANCING VALVE.
SECTION 220533 - ELECTRIC TEMPERATURE MAINTENANCE CABLE
A. GENERAL:
1. FURNISH AND INSTALL A UL LISTED, CSA CERTIFIED AND FM APPROVED SYSTEM OF ELECTRIC, SELF REGULATING HEATING CABLE, CONNECTION KITS AND ELECTRONIC CONTROLLER FOR MAINTAINING THE WATER TEMPERATURE AS INDICATED IN THIS SPECIFICATION AND ON THE DRAWINGS.
B. MATERIAL:
1. TEMPERATURE MAINTENANCE CABLE: THE CABLE SHALL UTILIZE A RADIATION-CROSSLINKED CONDUCTIVE POLYMER AS THE HEATING ELEMENT.
C. EXECUTION:
1. INSTALL TEMPERATURE MAINTENANCE SYSTEM IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

SECTION 220543 - HANGERS, SUPPORTS, ANCHORS, AND GUIDES

- A. GENERAL:
1. EQUIPMENT AND PIPING: SECURE TO BUILDING STRUCTURE IN ACCORDANCE WITH ALL LOCAL CODE REQUIREMENTS AND ALL APPLICABLE LOADS, SUCH AS DEAD WEIGHT, DYNAMIC AND/OR THRUST LOADS.
2. FOR HAZARDOUS OR LIFE SAFETY RELATED SYSTEMS: BRACE FOR SEISMIC, WIND, AND/OR FLOOD LOADS IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
3. PROVIDE BRACING TO PREVENT SWAY FOR ALL PIPING LOWER THAN 18" BELOW SLAB OR STRUCTURAL ATTACHMENT, OR WHERE PIPING IS SUBJECT TO THRUST LOADING (BASE OF STACK, PUMP DISCHARGE, ETC.).
B. MATERIAL:
1. REFER TO DETAILS ON DRAWINGS FOR ADDITIONAL INFORMATION.
2. PIPING, VERTICAL: RISER CLAMP; ABOVE AND BELOW SLAB; STEEL, CONFORM TO CFR WW-H171 TYPE B, COOPER B-LINE B3373 (B3373CTC FOR COPPER PIPE).
3. PIPING, INSULATED: PROVIDE METAL PROTECTION SHIELDS ON HANGER.
4. CHASES: SUPPORT PIPING INSIDE CHASES WITH METAL STRAPS ATTACHED TO STUDS, UNIVERSAL BRACKETS AND CLIPS, SIMILAR TO B-LINE RUFFIN.
5. SUPPORT MATERIALS: TO MATCH PIPING MATERIALS. PROVIDE COPPER PLATED CLIPS FOR COPPER PIPING.
C. EXECUTION:
1. THE CONTRACTOR SHALL PROVIDE SUPPORTS AND SEISMIC RESTRAINING SYSTEMS FOR EQUIPMENT AND PIPING INSTALLED AS PART OF THIS CONTRACT AS REQUIRED BY LOCAL CODE AND THE BUILDING STANDARDS.
2. INSTALL ALL HANGERS, SUPPORTS IN ACCORDANCE WITH THE BUILDING STANDARDS.
3. IN TERRA COTTA SLAB, REUSE APPROVED EXISTING HANGERS WHERE POSSIBLE.
4. WATER HEATER DUAL ADDITIONAL SUPPORT STEEL SHALL BE WELDED TO THE STEEL STRUCTURE IN ACCORDANCE WITH THE BLDG. STANDARDS.
5. PROVIDE CONCRETE INERTIA BASE FOR PUMPS 5 HP AND LARGER AND NEOPRENE ISOLATORS FOR SMALLER PUMPS.
6. SUPPORT PIPING AT DISTANCES AS REQUIRED BY CODE.
7. SEISMICALLY RESTRAIN THE FOLLOWING PIPING:
a. GAS PIPING AND COMPRESSED AIR PIPING THAT IS 1" OR LARGER
b. ALL PIPING LOCATED IN MECHANICAL ROOMS THAT IS 1-1/4" AND LARGER
c. ALL OTHER PIPING 2-1/2" AND LARGER.
8. TRANSVERSE PIPING RESTRAINTS SHALL BE AT 40 FT MAXIMUM SPACING FOR ALL PIPE SIZES.
9. LONGITUDINAL RESTRAINTS SHALL BE AT 80 FT MAXIMUM SPACING FOR ALL PIPE SIZES.
10. GAS PIPING TRANSVERSE RESTRAINTS SHALL BE AT 20 FT MAXIMUM SPACING, LONGITUDINAL RESTRAINTS SHALL BE AT 40 FT MAXIMUM SPACING.
11. SEISMIC RESTRAINT SYSTEMS SHALL BE INSTALLED IN COMPLIANCE WITH ALL APPLICABLE CODES.
SECTION 220553 - IDENTIFICATION
A. GENERAL:
1. PROVIDE TAGS ON VALVES AT THE BASE BUILDING MAIN AND RISER CONNECTION; INDICATE THE TENANTS NAME, SYSTEM TYPE, AND FLOOR SERVED.
2. LABEL ALL PIPING IN THE PROJECT AREA.
B. MATERIALS:
1. VALVE TAGS: METAL; GREEN BACKGROUND; BLACK LETTERING.
2. PIPE LABELS: VINYL; SELF-ADHESIVE; COLOR PER ANSI STANDARDS; SETON OR EQUAL.
a. YELLOW BACKGROUND; BLACK LETTERING: DOMESTIC HOT WATER SUPPLY AND RETURN.
b. GREEN BACKGROUND; WHITE LETTERING: DOMESTIC WATER SUPPLY, STORM DRAIN, SANITARY DRAIN, AND SANITARY VENT.
C. EXECUTION:
1. COORDINATE ALL VALVE TAGS AND LABELS WITH THE EXISTING BUILDING STANDARDS.
2. PROVIDE VALVE CHART TO OWNER; LIST VALVE TAGS & SERVICE; INDICATE LOCATIONS ON PLAN.
3. LABELING: ON ALL PIPING, IN OR AT CEILING, 10 FT. ON CENTERS, INDICATING SYSTEM, SIZE AND DIRECTION OF FLOW.
SECTION 220719 - INSULATION
A. GENERAL:
1. INSULATE ALL PIPE, VALVES, AND EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL ENERGY CODE.
B. MATERIAL:
1. FIRE RATING: FLAME SPREAD: 25 OR LESS, SMOKE DEVELOPED: 50 OR LESS.
2. PIPING: REFER TO SCHEDULE ON DRAWINGS FOR ADDITIONAL INFORMATION.
3. VALVES AND FITTINGS: PREMOULDED FIBERGLASS FITTINGS OR RADIAL MITERED SEGMENTS OF PIPE INSULATION, INSULATING CEMENT, FIBERGLASS REINFORCING CLOTH, AND MASTIC VAPOR SEAL INSULATION ON CW PIPING.
4. VAPOR BARRIER (SWEATPROOFING): AS SPECIFIED FOR CW PIPING; NO STAPLES PERMITTED.
C. EXECUTION:
1. AT ALL HANGERS: PROVIDE SECTION OF NON COMPRESSIBLE INSULATION FULL LENGTH OF SHIELD.
2. FOR OUTDOOR INSTALLATION: PROVIDE METAL OR OTHER WEATHER-RESISTANT JACKETING.
3. TEMPERATURE MAINTENANCE ELECTRIC HEAT STRIP: PROVIDE INSULATION OVERSIZED 1/2" LARGER DIAMETER TO ACCOMMODATE HEAT STRIP.

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