## PLUMBING LEGEND

### PIPING SYMBOLS

| SYMBOL      | DESCRIPTION                      |
|-------------|----------------------------------|
|             | DOMESTIC COLD WATER (POTABLE)    |
|             | DOMESTIC HOT WATER               |
|             | DOMESTIC HOT WATER RECIRCULATION |
| <del></del> | SANITARY ABOVE FLOOR             |
|             | VENT                             |

#### **EQUIPMENT DESIGNATIONS**

| <u>DESIGNATION</u> | <u>DESCRIPTION</u> |
|--------------------|--------------------|

| <u>IEWH-X</u> | INSTANTANEOUS ELECTRIC WATER HEATER DESIGNA | ATION |
|---------------|---|-------|
| <u>P-X</u>    | PLUMBING FIXTURE DESIGNATION                |       |

#### RISER DIAGRAM COMPONENTS AND SPECIALTIES

| SYMBOL        | DESCRIPTION        |
|---------------|--------------------|
| $\overline{}$ | TRAP ARM           |
| <b>∕</b> ICO  | WALL/PIPE CLEANOUT |

## **GENERAL SYMBOLS**

#### PIPING SYMBOLS

|                             | PIPING SYMBOLS                                   |  |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|--|--|
| SYMBOL                      | DESCRIPTION                                      |  |  |  |  |  |  |
| ———э                        | PIPE DROP  |  |  |  |  |  |  |
| <del></del> o <del></del> o | PIPE RISE  |  |  |  |  |  |  |
| <del></del>                 | PIPE CAP   |  |  |  |  |  |  |
|                             | BRANCH TAKE OFF                                  |  |  |  |  |  |  |
| <del></del>                 | PIPE DROP TEE                                    |  |  |  |  |  |  |
| <del></del>                 | PIPE RISE TEE                                    |  |  |  |  |  |  |
| <b>──</b>                   | SHUTOFF VALVE (REFER TO SPECIFICATIONS FOR TYPE) |  |  |  |  |  |  |
|                             | FLOW ARROW                                       |  |  |  |  |  |  |
|                             | LINETYPE SYMBOLS                                 |  |  |  |  |  |  |
| <u>DESIGNATION</u>          | DESCRIPTION                                      |  |  |  |  |  |  |
|                             | EXISTING WORK NEW WORK                           |  |  |  |  |  |  |
|                             | REFERENCE SYMBOLS                                |  |  |  |  |  |  |
| <u>DESIGNATION</u>          | DESCRIPTION                                      |  |  |  |  |  |  |
|                             | NORTH ARROW                                      |  |  |  |  |  |  |

POINT OF CONNECTION TO EXISTING

### TEXT SYMBOLS

| SYMBOL            | DESCRIPTION              |
|-------------------|--------------------------|
| &                 | AND                      |
| <b>©</b>          | AT                       |
| <b>•</b> F        | DEGREE(S) FAHRENHEIT     |
| *C                | DEGREE(S) CELSIUS        |
| Ø                 | DIAMETER, PHASE          |
| /                 | DIVIDE BY, PER           |
| ,<br><b>\$</b>    | DOLLAR                   |
| =                 | EQUALS, EQUAL TO         |
| x'                | FEET, FOOT               |
| >                 | GREATER THAN             |
| <u>&gt;</u>       | GREATER THAN OR EQUAL TO |
| <u>&gt;</u><br>×" | INCH(ES)                 |
| <                 | LESS THAN                |
| <u>&lt;</u>       | LESS THAN OR EQUAL TO    |
| _                 | MINUS                    |
| ×                 | MULTIPLY BY, BY          |
| #                 | NUMBER, POUND            |
| <b>%</b>          | PERCENT                  |
| +                 | PLUS                     |
| ±                 | PLUS OR MINUS            |

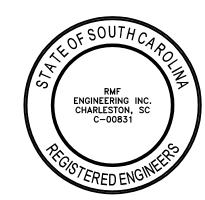
### GENERAL NOTES

- 1. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN (7) DAYS IN ADVANCE OF ALL REQUIRED SHUTDOWNS OF WATER, FIRE, SEWER, GAS, ELECTRICAL SERVICE, OR OTHER UTILITIES. UPON WRITTEN RECEIPT OF APPROVAL FROM OWNER, SHUTDOWN SHALL BE PERFORMED BETWEEN THE HOURS OF SIX (6) P.M. AND SIX (6) A.M. OR AS DIRECTED OTHERWISE BY THE OWNER AND SHALL BE ACCOMPLISHED AT NO ADDITIONAL CONTRACT COST. AT THE END OF EACH SHUTDOWN ALL SERVICES SHALL BE RESTORED SO THAT NORMAL USE OF THE UTILITIES CAN CONTINUE.
- 2. WHEN WORKING IN AND AROUND THE EXISTING BUILDING, EXTREME CARE SHALL BE EXERCISED WITH REGARD TO PROTECTION OF THE EXISTING STRUCTURE AND MECHANICAL AND ELECTRICAL SERVICES WHICH WILL REMAIN. REPAIR, REPLACE, OR RESTORE TO THE SATISFACTION OF THE ARCHITECT, ENGINEER AND OWNER ALL EXISTING WORK DAMAGED IN THE PERFORMANCE OF DEMOLITION AND/OR NEW WORK.
- 3. ALL EXISTING PIPING, EQUIPMENT, DUCTWORK, AND MATERIALS NOT REQUIRED FOR RE—USE OR RE—INSTALLATION (SHOWN OR OTHERWISE) SHALL BE REMOVED. ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE OWNER, OR ARE INDICATED TO REMAIN THE PROPERTY OF THE OWNER, SHALL BE DELIVERED TO HIM ON THE PREMISES BY THE CONTRACTOR. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.
- 4. EXISTING CONDITIONS, I.E., PRESENCE AND LOCATION OF DUCTWORK, PIPING, EQUIPMENT AND MATERIALS, INDICATED ARE BASED ON INFORMATION OBTAINED FROM AVAILABLE RECORD DRAWINGS AND FIELD SURVEYS AND ARE NOT WARRANTED TO BE COMPLETE OR CORRECT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF ALL DUCTWORK, PIPING, EQUIPMENT AND MATERIALS IN THE FIELD PRIOR TO STARTING ALL WORK.
- 5. EXISTING DUCT, PIPE, AND EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. CONTRACTOR SHALL VERIFY ALL SIZES IN THE FIELD IF THEY EFFECT HIS WORK.
- 6. EXISTING PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) SHALL BE DISCONNECTED AND REMOVED BACK TO SERVICE MAINS UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, VALVES, ETC.. EXISTING PIPING INDICATED OR REQUIRED TO REMAIN IN SERVICE OR IN PLACE SHALL BE CAPPED, PLUGGED, OR OTHERWISE SEALED. NO EXISTING PIPING SHALL BE LEFT OPEN END.
- 7. EXISTING DUCTWORK INDICATED TO BE DISCONNECTED AND REMOVED SHALL INCLUDE ALL RELATED AIR DEVICES, HANGERS, SUPPORTS, ETC., UNLESS OTHERWISE INDICATED OR NOTED ON THE PLANS. EXISTING DUCTWORK WHERE INDICATED TO BE CAPPED OR REQUIRED TO REMAIN IN SERVICE SHALL BE CAPPED WITH 18 GAUGE SHEET METAL. SECURE CAP WITH SHEET METAL SCREWS AND SEAL PERIMETER OF OPENING AIR TIGHT WITH DUCT SEALER. NO EXISTING DUCTWORK SHALL BE LEFT OPEN FOR ANY EXTENDED PERIOD OF TIME. CAP EXISTING DUCTWORK IMMEDIATELY AS REQUIRED OR DIRECTED BY THE ENGINEER. CONTRACTOR SHALL RETURN ALL AIR DEVICES TO OWNER.
- 8. EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, DUCTWORK, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE RE-INSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH NEW WORK SPECIFICATION. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AND OWNER AND AT NO ADDITIONAL CONTRACT COST.
- 9. PATCH ALL DISTURBED SURFACES, INCLUDING WALLS, CEILINGS, ROOF, AND FLOOR. PATCHING SHALL MATCH EXISTING ADJACENT SURFACES AS TO THICKNESS, TEXTURE, MATERIALS, AND COLOR. ALL PATCHING SHALL BE PERFORMED TO THE SATISFACTION OF THE ARCHITECT, ENGINEER AND OWNER AND AT NO ADDITIONAL CONTRACT COST.
- 10. IN GENERAL ALL PIPING, EQUIPMENT, DUCTWORK, AND MATERIALS SHOWN "LIGHT" IS EXISTING TO REMAIN. ALL PIPING, CONDUITS, EQUIPMENT, DUCTWORK, AND MATERIALS SHOWN "HEAVY AND DASHED" IS EXISTING TO BE DEMOLISHED.
- 11. ALL WORK SHALL BE PERFORMED IN A SEQUENCE AND DURING HOURS TO MINIMIZE DISRUPTION TO THE BUILDING WHICH WILL REMAIN OCCUPIED DURING CONSTRUCTION.
- 12. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOUTH CAROLINA CODES, CITY OF COLUMBIA, AND THE LOCAL FIRE MARSHALL'S REQUIREMENTS.
- 13. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES/ SUBCONTRACTORS INCLUDING BUT NOT LIMITED TO AUTOMATIC TEMPERATURE CONTROLS, ELECTRICAL, AND GENERAL TRADES.
- 14. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL STAIRWELLS AND EGRESS CORRIDORS DURING CONSTRUCTION.
- 15. CONCRETE CORING OR CUTTING MAY BE REQUIRED IN ORDER TO RUN MECHANICAL, ELECTRICAL, PLUMBING, CABLING OR OTHER SERVICES TO A SPECIFIC AREA. IT IS IMPERATIVE WHEN CONSIDERING EITHER CORING, CUTTING OR CHIPPING THAT REBAR, PLUMBING, ELECTRICAL SERVICES, ETC WITHIN THE CONCRETE SLAB, WALL OR FLOOR BE LOCATED PRIOR TO DISTURBING THE INTEGRITY OF THE EXISTING CONCRETE. OBTAIN STRUCTURAL DRAWINGS OF THE AREA IN QUESTION AND, USING THE BUILDING GRIDLINES, DETERMINE AND MARK THE EXACT LOCATIONS REQUIRED FOR NEW SERVICES.
- 16. ALL PENETRATIONS MUST BE SEALED WITH FIRE STOP MATERIAL AFTER SERVICES ARE RUN THROUGH. ALL PENETRATIONS THROUGH EXTERIOR WALLS ABOVE AND BELOW GRADE OR SLAB ON GRADE MUST BE WATERPROOFED.
- 17. FINAL CEILING HEIGHTS TO BE DETERMINED WITH ARCHITECT IN FIELD AFTER DEMOLITION OF EXISTING CEILINGS. NO FABRICATION OF DUCTWORK, HVAC PIPING OR PLUMBING PIPING SHALL BEGIN UNTIL AFTER THE CONTRACTOR HAS COMPLETED COORDINATION DRAWINGS AND COORDINATED THE CEILING HEIGHTS WITH THE ARCHITECT.
- 18. AUTOMATIC TEMPERATURE CONTROL CONTRACTOR SHALL DESIGNATE AND NUMBER ALL EQUIPMENT IN ACCORDANCE WITH UNIVERSITY OF SOUTH CAROLINA STANDARDS. NO DUPLICATE DESIGNATION NUMBERS SHALL BE PROVIDED. ALL NUMBERS SHALL BE THE NEXT SEQUENTIAL NUMBER FOR THAT SPECIFIC PIECE OF EQUIPMENT.
- 19. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER PRIOR TO CLOSING ANY CEILINGS FOR A COMPLETE CHECKOUT OF THE HVAC SYSTEM. THE SYSTEM MUST BE COMPLETE AND OPERATIONAL INCLUDING CONTROLS, REGISTERS, INSULATION, AND BALANCING WITH REPORT. THE SYSTEM SHALL BE RUN THROUGH ITS COMPLETE HEATING AND COOLING CYCLES. THE CONTRACTOR AND ALL APPROVED SUBCONTRACTORS SHALL BE PRESENT AT THE ARCHITECT—ENGINEER CHECKOUT. THE TESTING AND BALANCE AGENCY SHALL CERTIFY THAT THESE CONDITIONS ARE MET.

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Project: 11USC396

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Checked By: BAC

Date: 5 MAR 2012

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PLUMBING LEGEND, SYMBOLS AND GENERAL NOTES

• P0.01

## **ABBREVIATIONS**

NOTE: THIS IS A STANDARD ABBREVIATION LIST. SOME ABBREVIATIONS MAY NOT APPEAR ON THE ACCOMPANYING DRAWINGS.

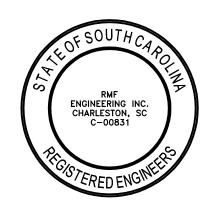
| Α          | COMPRESSED AIR                        | FOT    | FUEL OIL TRANSFER                       | OED                                     | OPEN ENDED DUCT                                    |
|------------|---------------------------------------|--------|---|---|--|
|            |                                       |        |   |   |  |
| AAV        | AUTOMATIC AIR VENT                    | FOV    | FUEL OIL VENT                           | OS&Y                                    | OUTSIDE STEM AND YOKE                              |
| ACV        | AUTOMATIC CONTROL VALVE               | FPM    | FEET PER MINUTE                         |   |  |
| AD         | ACCESS DOOR, AREA DRAIN               | FPS    | FEET PER SECOND                         | P&ID                                    | PROCESS AND INSTRUMENTATION DIAGRAM                |
| AF         | ANTIFREEZE                            | FS     | FLOW SWITCH                             | PA                                      | PLANT AIR  |
|            |                                       |        |   |   |  |
| AFF        | ABOVE FINISHED FLOOR                  | FT     | FOOT, FEET                              | PC                                      | PUMPED CONDENSATE                                  |
| AR         | ARGON GAS                             | FWR    | FEED WATER RETURN                       | PCR                                     | PUMPED CONDENSATE RECIRCULATION                    |
| ATC        | AUTOMATIC TEMPERATURE CONTROL         | FWS    | FEED WATER SUPPLY                       | PCHR                                    | PRIMARY CHILLED WATER RETURN                       |
| AIO        | ACTOMINATE TEMIT ENVIORE CONTINUE     | 1 113  | TEED WATER SOLLE                        |   |  |
|            |                                       |        |   | PCHS                                    | PRIMARY CHILLED WATER SUPPLY                       |
| BAS        | BUILDING AUTOMATION SYSTEM            | G      | NATURAL GAS                             | PCWR                                    | PROCESS COOLING WATER RETURN                       |
| BBD        | BOILER BLOWDOWN                       | GHR    | GLYCOL HEATING RETURN                   | PCWS                                    | PROCESS COOLING WATER SUPPLY                       |
|            | BEARING COOLING WATER RETURN          |        |   |   |  |
| BCWR       |                                       | GHS    | GLYCOL HEATING SUPPLY                   | PD                                      | PRESSURE DROP, PUMP DISCHARGE                      |
| BCWS       | BEARING COOLING WATER SUPPLY          | GPH    | GALLONS PER HOUR                        | PGR                                     | PROCESS GLYCOL WATER RETURN                        |
| BDD        | BACKDRAFT DAMPER                      | GPM    | GALLONS PER MINUTE                      | PGS                                     | PROCESS GLYCOL WATER SUPPLY                        |
| BFP        | BACKFLOW PREVENTER                    | GR     | AUTOMOTIVE LUBRICATION PIPING           | PH                                      | PHASE  |
|            |                                       | GIV    | AUTOMOTIVE EUDINICATION FIFTING         |   |  |
| BHP        | BRAKE HORSEPOWER                      |        |   | PHR                                     | PRIMARY HEATING RETURN                             |
| BMS        | BUILDING MANAGEMENT SYSTEM            | Н      | HIGH                                    | PHS                                     | PRIMARY HEATING SUPPLY                             |
| ВО         | BLOW OFF                              | HB     | HOSE BIBB                               | PIV                                     | POST INDICATING VALVE                              |
|            |                                       |        |   |   |  |
| BTU        | BRITISH THERMAL UNIT                  | HED    | HOSE END DRAIN VALVE                    | PPH                                     | POUNDS PER HOUR                                    |
| BTUH       | BRITISH THERMAL UNIT PER HOUR         | HP     | HORSEPOWER                              | PRV                                     | PRESSURE REDUCING VALVE, PRESSURE REGULATING VALVE |
|            |                                       | HPR    | HIGH PRESSURE STEAM RETURN              | PSI                                     | POUNDS PER SQUARE INCH                             |
| ••         |                                       |        |   | PSIG                                    |  |
| •C         | DEGREE(S) CELSIUS                     | HPS    | HIGH PRESSURE STEAM SUPPLY              | PSIG                                    | POUNDS PER SQUARE INCH GAUGE                       |
| CA         | CONTROL AIR                           | HR     | HEATING WATER RETURN                    |   |  |
| CBD        | CONTINUOUS BLOWDOWN                   | HRR    | HEAT RECOVERY RETURN                    | RA                                      | RETURN AIR, RELIEF AIR                             |
| CC         | CAMPUS CONDENSATE                     | HRS    | HEAT RECOVERY SUPPLY                    | RD                                      | REFRIGERANT DISCHARGE                              |
|            |                                       |        |   |   |  |
| CCMS       | CENTRAL CONTROL AND MONITORING SYSTEM | HS     | HEATING WATER SUPPLY                    | RH                                      | RELATIVE HUMIDITY                                  |
| CD         | CONDENSATE DRAIN                      | HT     | HEIGHT                                  | RHR                                     | REHEAT WATER RETURN                                |
| CF         | CHEMICAL FEED                         | HTHR   | HIGH TEMPERATURE HEATING WATER RETURN   | RHS                                     | REHEAT WATER SUPPLY                                |
|            |                                       |        |   |   |  |
| CFM        | CUBIC FEET PER MINUTE                 | HTHS   | HIGH TEMPERATURE HEATING WATER SUPPLY   | RL                                      | REFRIGERANT LIQUID                                 |
| CHR        | CHILLED WATER RETURN                  | HW     | HOT WATER                               | ROR                                     | REVERSE OSMOSIS WATER RETURN                       |
| CHS        | CHILLED WATER SUPPLY                  | HWR    | HOT WATER RECIRCULATION                 | ROS                                     | REVERSE OSMOSIS WATER SUPPLY                       |
|            |                                       |        |   |   |  |
| CO         | CLEANOUT                              | HZ     | HERTZ                                   | RPM                                     | REVOLUTIONS PER MINUTE                             |
| CO2        | CARBON DIOXIDE                        |        |   | RS                                      | REFRIGERANT SUCTION                                |
| CS         | CLEAN STEAM                           | IA     | INSTRUMENT AIR                          | RV                                      | RELIEF VENT, REFRIGERANT VENT                      |
|            |                                       |        |   | RX                                      |  |
| CW         | COLD WATER, CITY WATER                | ICW    | INDUSTRIAL COLD WATER                   | KX                                      | REMOVE EXISTING                                    |
| CWR        | CONDENSER WATER RETURN                | IHW    | INDUSTRIAL HOT WATER                    |   |  |
| CWS        | CONDENSER WATER SUPPLY                | IHR    | INDUSTRIAL HOT WATER RECIRCULATION      | SA                                      | SUPPLY AIR   |
|            |                                       | IN     | INCH, INCHES                            | SAN                                     | SANITARY, SOIL, WASTE                              |
| _          | DEED DOAIN WATER                      |        |   |   |  |
| D          | DEEP, DRAIN WATER                     | INV EL | INVERT ELEVATION                        | SCHR                                    | SECONDARY CHILLED WATER RETURN                     |
| DB         | DECIBEL, DRY BULB                     |        |   | SCHS                                    | SECONDARY CHILLED WATER SUPPLY                     |
| DDC        | DIRECT DIGITAL CONTROL                | KW     | KILOWATTS                               | SD                                      | STORM DRAIN, SMOKE DETECTOR                        |
|            |                                       | 1      | 1112011/11110                           |   |  |
| DHR        | DISTRIBUTION HEATING WATER RETURN     |        |   | SF                                      | SQUARE FOOT  |
| DHS        | DISTRIBUTION HEATING WATER SUPPLY     | L      | LONG, LENGTH                            | SHR                                     | SECONDARY HEATING WATER RETURN                     |
| DIR        | DEIONIZED WATER RETURN                | LA     | LABORATORY AIR                          | SHS                                     | SECONDARY HEATING WATER SUPPLY                     |
| DIS        | DEIONIZED WATER SUPPLY                | LAT    |   |   | SOUND LINING                                       |
|            |                                       |        | LEAVING AIR TEMPERATURE                 | SL                                      |  |
| DL         | DOOR LOUVER                           | LBS    | POUNDS                                  | SP                                      | STATIC PRESSURE                                    |
| DN         | DOWN                                  | LBS/HR | POUNDS PER HOUR                         | SPR                                     | SPRINKLER LINE                                     |
| DSP        | DRY SPRINKLER PIPE                    | LN     | LIQUID NITROGEN                         | SS                                      | STAINLESS STEEL                                    |
|            |                                       |        |   |   |  |
| DTR        | DUAL TEMPERATURE RETURN               | LP     | LIQUID PROPANE                          | SQ FT                                   | SQUARE FOOT  |
| DTS        | DUAL TEMPERATURE SUPPLY               | LPG    | LIQUID PETROLEUM GAS                    | SW                                      | SOFT WATER   |
| DW         | DISTILLED WATER                       | LPR    | LOW PRESSURE STEAM RETURN               |   |  |
| DW         | DISTILLED WATER                       |        |   | <b>^ T</b>                              | TEMPEDATURE DIFFERENCE                             |
|            |                                       | LPS    | LOW PRESSURE STEAM SUPPLY               | ΔT                                      | TEMPERATURE DIFFERENCE                             |
| EA         | EXHAUST AIR                           | LV     | LABORATORY VENT, LABORATORY VACUUM      | TS                                      | TAMPER SWITCH                                      |
| EAT        | ENTERING AIR TEMPERATURE              | LW     | LABORATORY WASTE                        | TSP                                     | TOTAL STATIC PRESSURE                              |
| EJ         | EXPANSION JOINT                       | LWT    | LEAVING WATER TEMPERATURE               | TWR                                     | TEMPERED WATER RETURN                              |
|            |                                       | LYVI   | LLAVING WATEN TEMPERATURE               |   |  |
| EMS        | ENERGY MANAGEMENT SYSTEM              |        |   | TWS                                     | TEMPERED WATER SUPPLY                              |
| ESP        | EXTERNAL STATIC PRESSURE              | MA     | MEDICAL AIR                             | TW                                      | TREATED WATER                                      |
| ETC        | ETCETERA                              | MAV    | MANUAL AIR VENT                         | TYP                                     | TYPICAL  |
|            |                                       |        |   | • |  |
| EVAC       | GAS EVACUATION                        | MBH    | THOUSAND BRITISH THERMAL UNITS PER HOUR |   |  |
| EWT        | ENTERING WATER TEMPERATURE            | MCC    | MOTOR CONTROL CENTER                    | UCD                                     | UNDERCUT DOOR                                      |
| EX         | EXISTING                              | MO     | MOTOR OIL PIPING                        | UL                                      | UNDERWRITERS LABORATORIES                          |
| _, ,       |                                       |        |   | 32                                      |  |
|            |                                       | MOD    | MOTOR OPERATED DAMPER                   |   |  |
| <b>•</b> F | DEGREE(S) FAHRENHEIT                  | MPR    | MEDIUM PRESSURE STEAM RETURN            | V                                       | VACUUM, VOLTS                                      |
| F          | FIRE LINE                             | MPS    | MEDIUM PRESSURE STEAM SUPPLY            | VD                                      | VOLUME DAMPER                                      |
| FC         |                                       | MV     |   |   |  |
| FC         | FLEXIBLE CONNECTION                   | IVI V  | MEDICAL VACUUM                          | VFD                                     | VARIABLE FREQUENCY DRIVE                           |
| FD         | FIRE DAMPER, FOUNDATION DRAIN         |        |   | VPD                                     | VACUUM PUMP DISCHARGE                              |
| FDV        | FIRE DEPARTMENT VALVE                 | N      | NITROGEN                                | VSD                                     | VARIABLE SPEED DRIVE                               |
| FF         | FINISHED FLOOR                        | NA     | NOT APPLICABLE                          | VTR                                     | VENT THROUGH ROOF                                  |
|            |                                       |        |   | V 1 IV                                  | VEIVI ITIINOOGII NOOI                              |
| FFE        | FINISHED FLOOR ELEVATION              | NC     | NOISE CRITERIA, NORMALLY CLOSED         |   |  |
| FIN/FT     | FINS PER FEET                         | NFPA   | NATIONAL FIRE PROTECTION ASSOCIATION    | W                                       | WATTS, WIDE  |
| FIN/INCH   | FINS PER INCH                         | NO     | NORMALLY OPEN, NITROUS OXIDE            | WB                                      | WET BULB   |
| •          |                                       |        |   |   |  |
| FM         | FLOWMETER                             | NPSH   | NET POSITIVE SUCTION HEAD               | WC                                      | WATER COLUMN                                       |
| FMF        | FLOWMETER FITTING                     |        |   | WG                                      | WATER GAUGE  |
| FOF        | FUEL OIL FILL                         | 0      | OXYGEN                                  | WH                                      | WALL HYDRANT                                       |
| F00        | FUEL OIL OVERFLOW                     | OA     | OUTSIDE AIR                             | WWF                                     | WELDED WIRE FABRIC                                 |
|            |                                       |        |   |   |  |
| FOR        | FUEL OIL RETURN                       | OD     | OVERFLOW DRAIN                          | WWM                                     | WELDED WIRE MESH                                   |
| FOS        | FUFL OIL SUPPLY                       |        |   |   |  |

FUEL OIL SUPPLY

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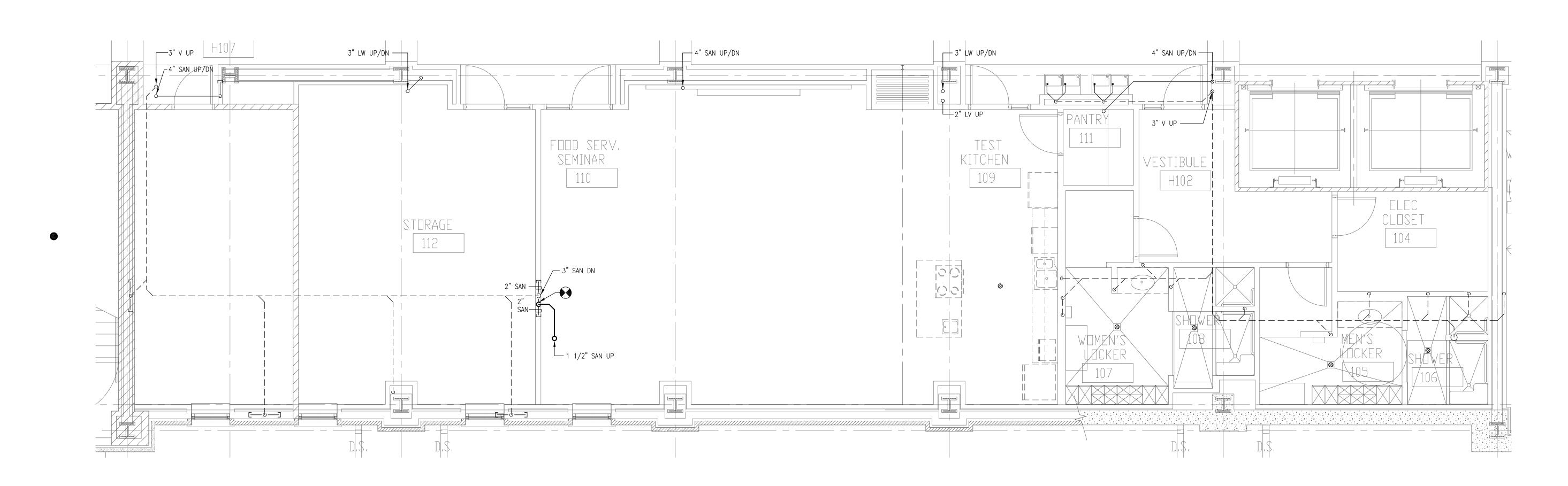
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PLUMBING ABBREVIATIONS

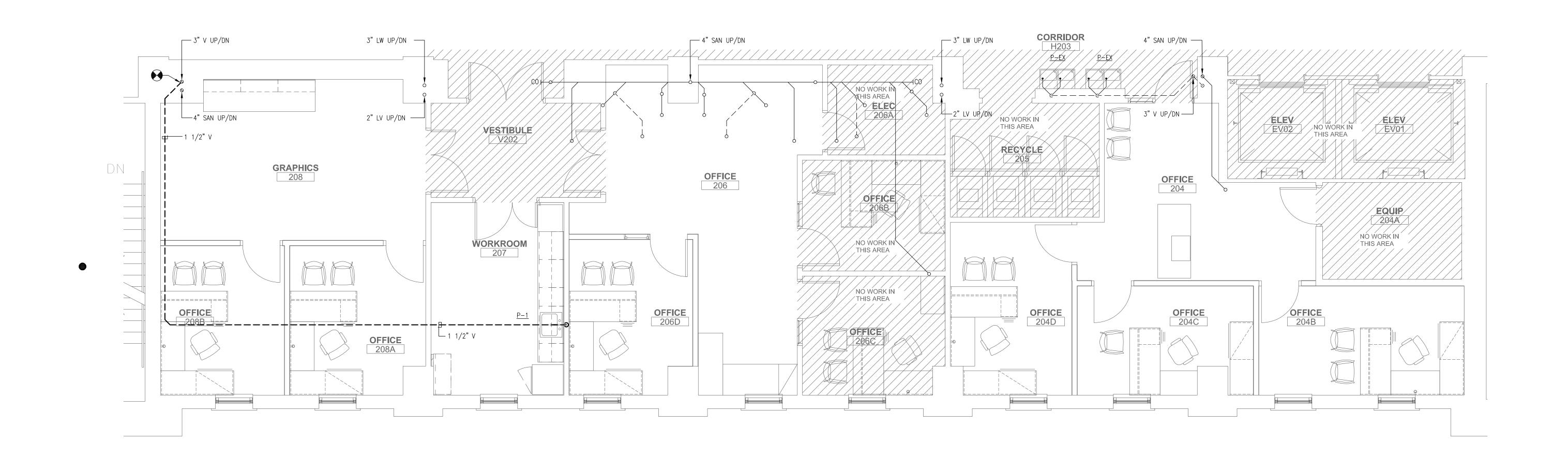
 SANITARY, LABORATORY WASTE AND STORM DRAIN PIPING SHOWN ON THIS FLOOR PLAN IS LOCATED IN THE CEILING OF THIS FLOOR AND SERVES PLUMBING FIXTURES LOCATED ON THE FLOOR ABOVE UNLESS OTHERWISE NOTED.

2. REFER TO RISER DIAGRAM FOR PIPE SIZES AND VALVE LOCATIONS.



FIRST FLOOR - SANITARY AND VENT PIPING

SCALE: 1/4"=1'-0"



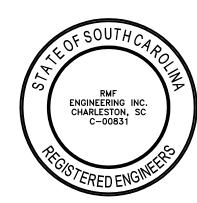
SECOND FLOOR — SANITARY AND VENT PIPING

SCALE: 1/4"=1'-0"

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Project: 11USC396

Drawn By: CSL

Checked By: CRB

Date: 5 MAR 20

FIRST AND
SECOND FLOOR
SANITARY AND
VENT PIPING PLAN

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• P1.01

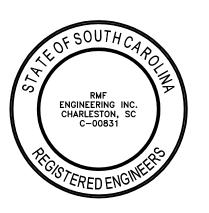
 SANITARY, LABORATORY WASTE AND STORM DRAIN PIPING SHOWN ON THIS FLOOR PLAN IS LOCATED IN THE CEILING OF THIS FLOOR AND SERVES PLUMBING FIXTURES LOCATED ON THE FLOOR ABOVE UNLESS OTHERWISE NOTED.

2. REFER TO RISER DIAGRAM FOR PIPE SIZES AND VALVE LOCATIONS.

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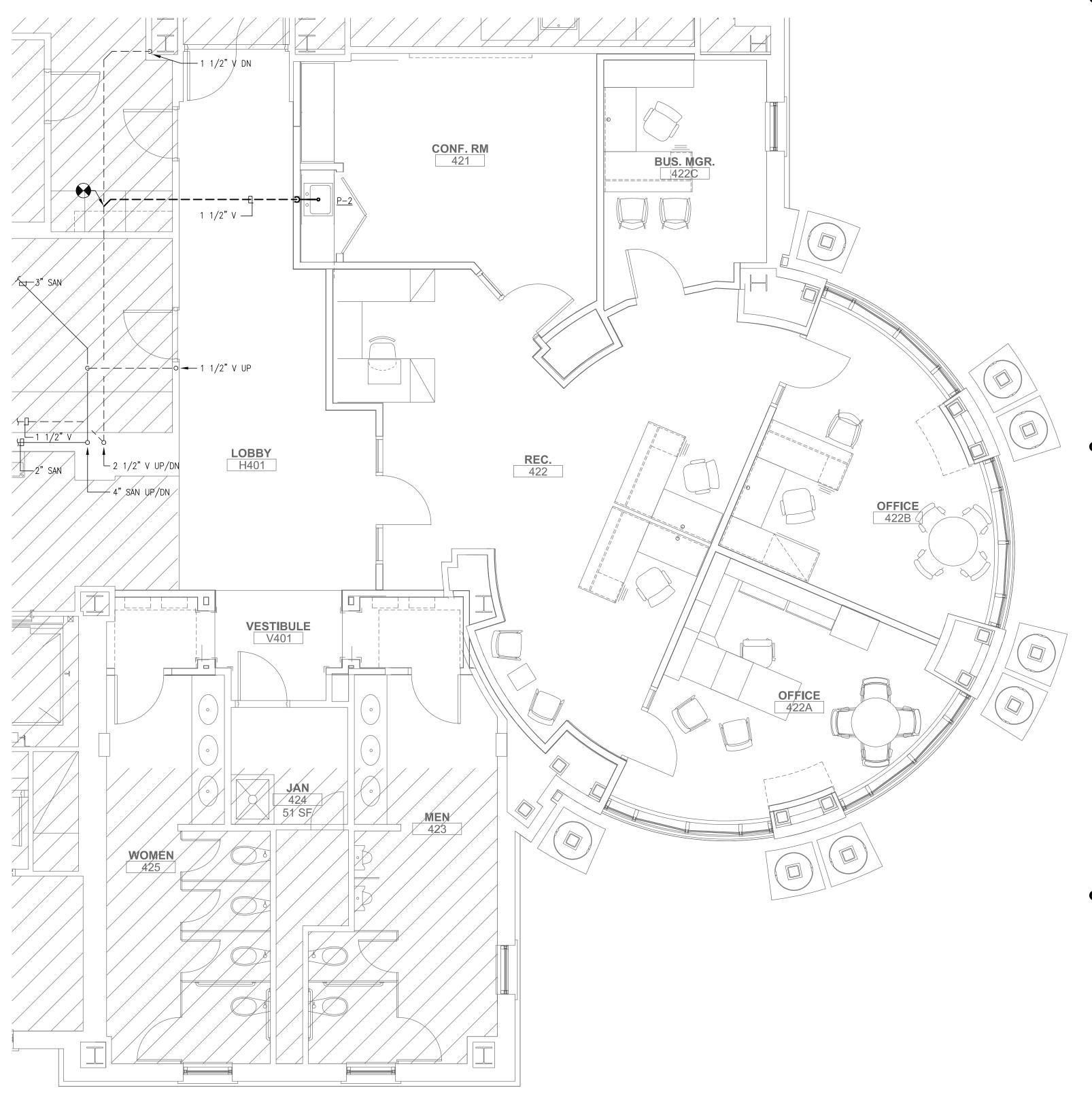
# PUBLIC HEALTH RESEARCH CENTER INTERIOR RENOVATIONS

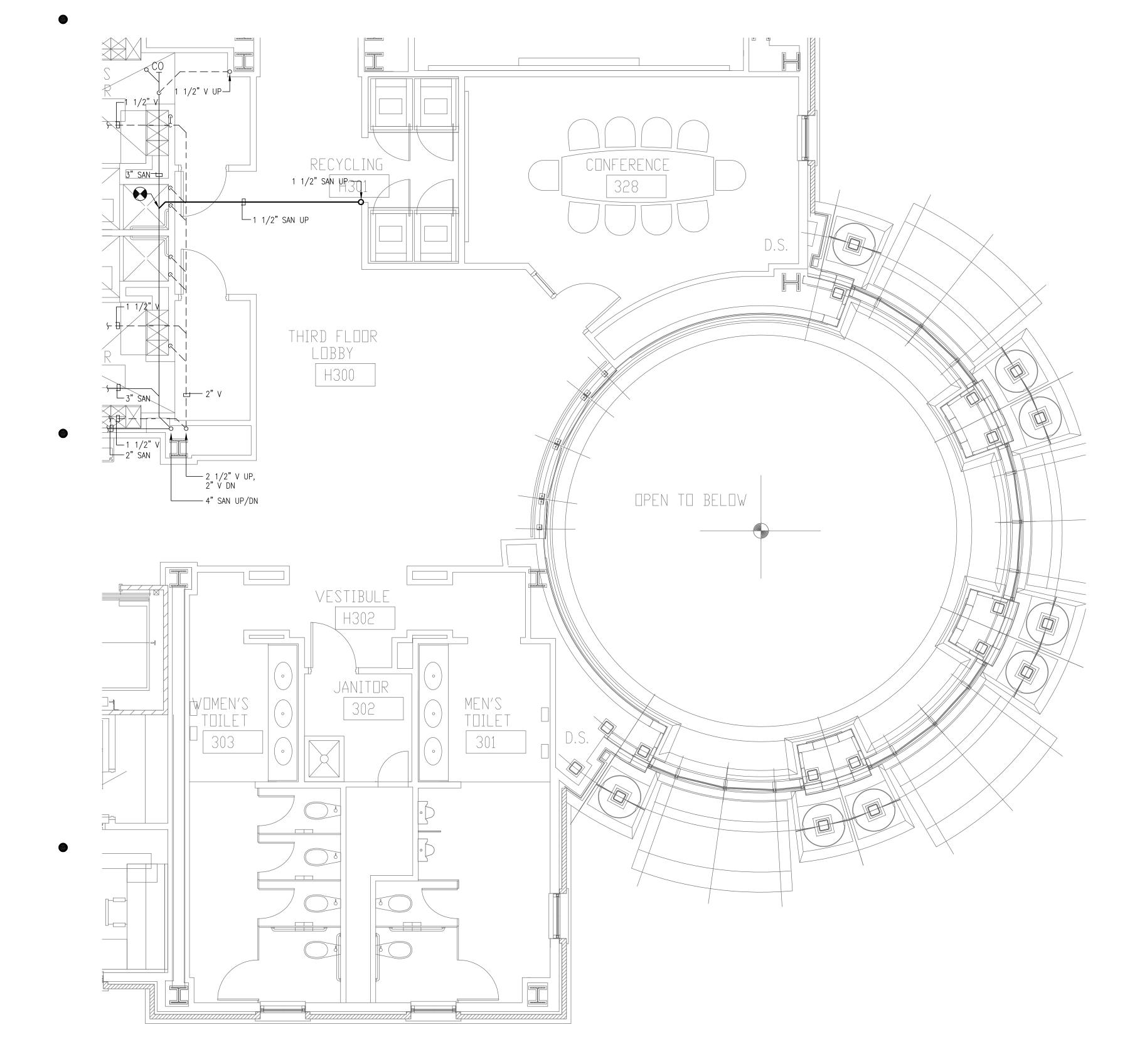
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THIRD AND
FOURTH FLOOR
SANITARY AND
VENT PIPING PLAN





THIRD FLOOR - SANITARY AND VENT PIPING

SCALE: 1/4"=1'-0"

FOURTH FLOOR — SANITARY AND VENT PIPING

SCALE: 1/4"=1'-0"

1. REFER TO RISER DIAGRAM FOR PIPE SIZES AND VALVE LOCATIONS.

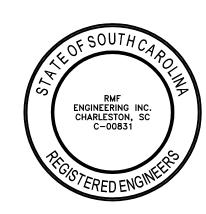
DRAWING NOTES:

1) INSTANTANEOUS ELECTRIC WATER HEATER <u>IEWH-1</u> LOCATED BELOW SINK. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

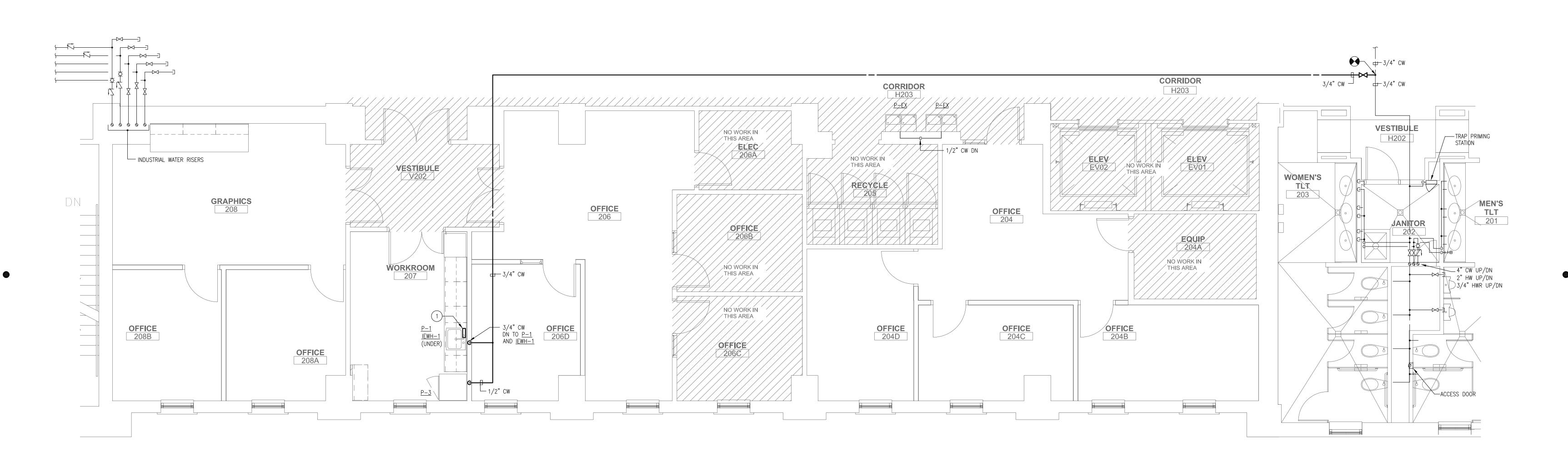
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SECOND FLOOR - DOMESTIC WATER PIPING PLAN

SCALE: 1/4"=1'-0"

U N I V E R S I T Y O F
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PUBLIC HEALTH
RESEARCH CENTER INTERIOR
RENOVATIONS

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Project: 11USC396
Drawn By: CSL
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SECOND FLOOR

SECOND FLOOR DOMESTIC WATER PIPING PLAN

• P2.01

1. REFER TO RISER DIAGRAM FOR PIPE SIZES AND VALVE LOCATIONS.

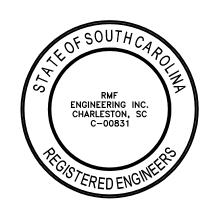
### DRAWING NOTES:

1) INSTANTANEOUS ELECTRIC WATER HEATER <u>IEWH-1</u> LOCATED BELOW SINK. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

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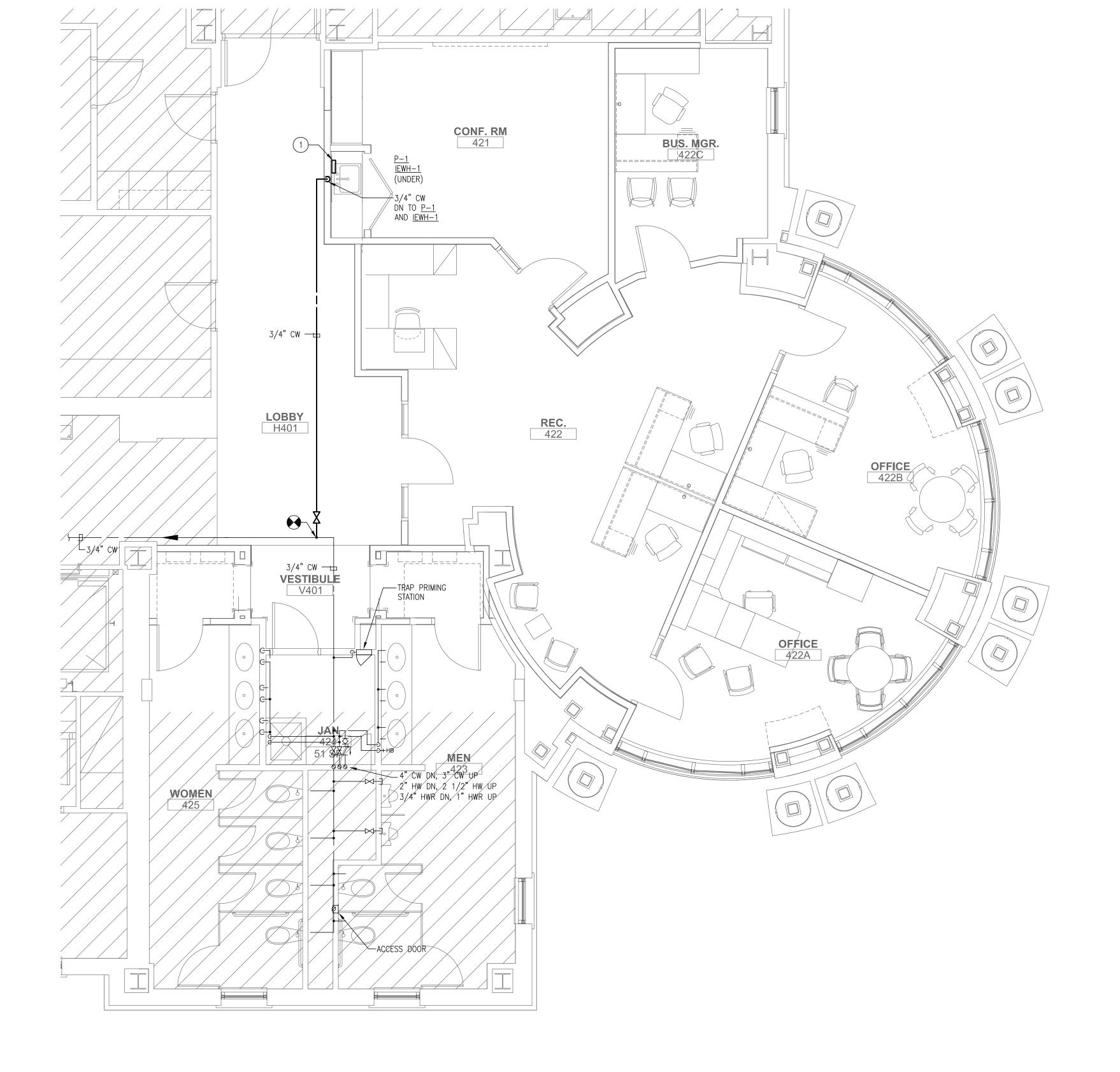
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OSE # H27-I988

TAG DESCRIPTION DATE

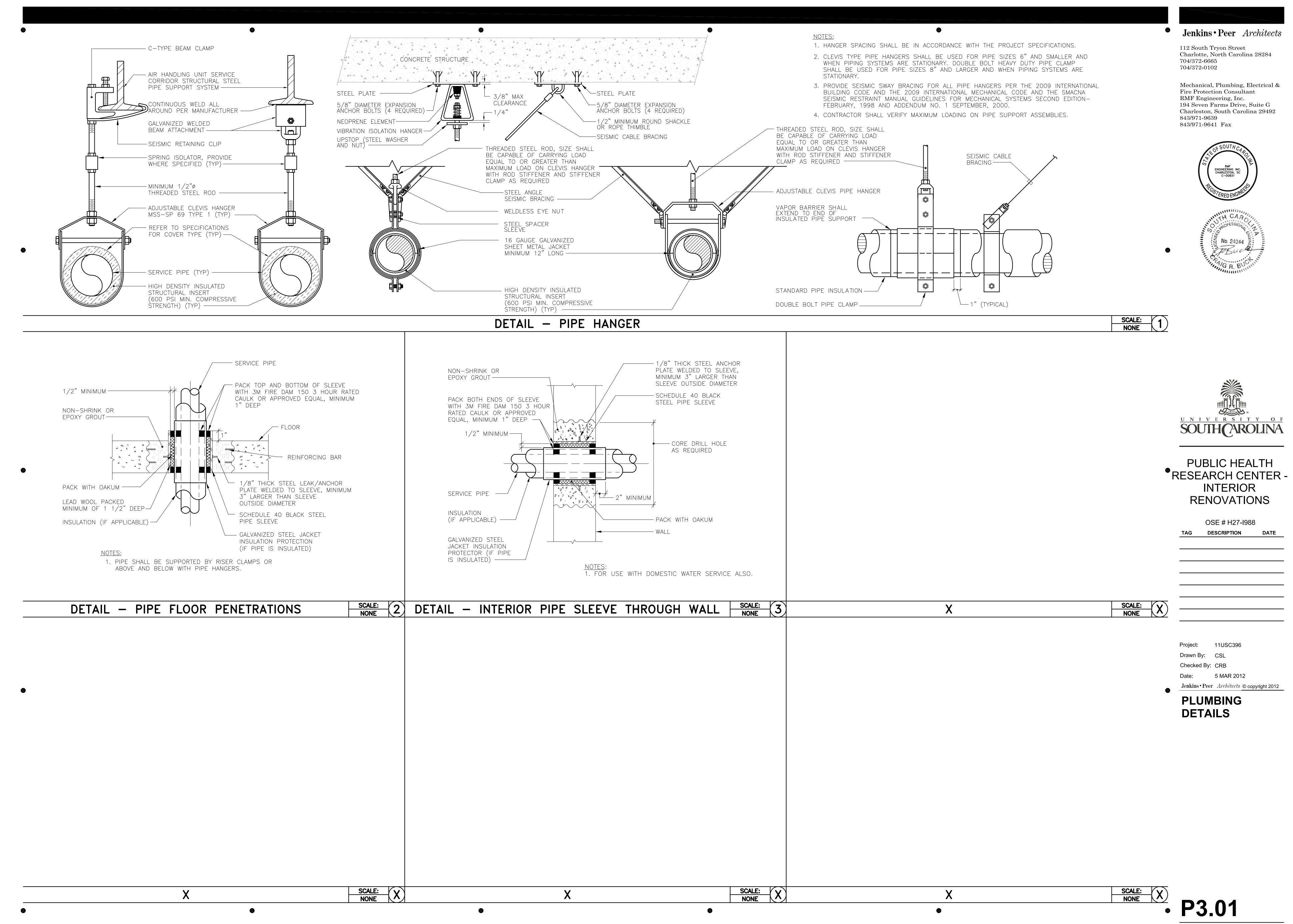
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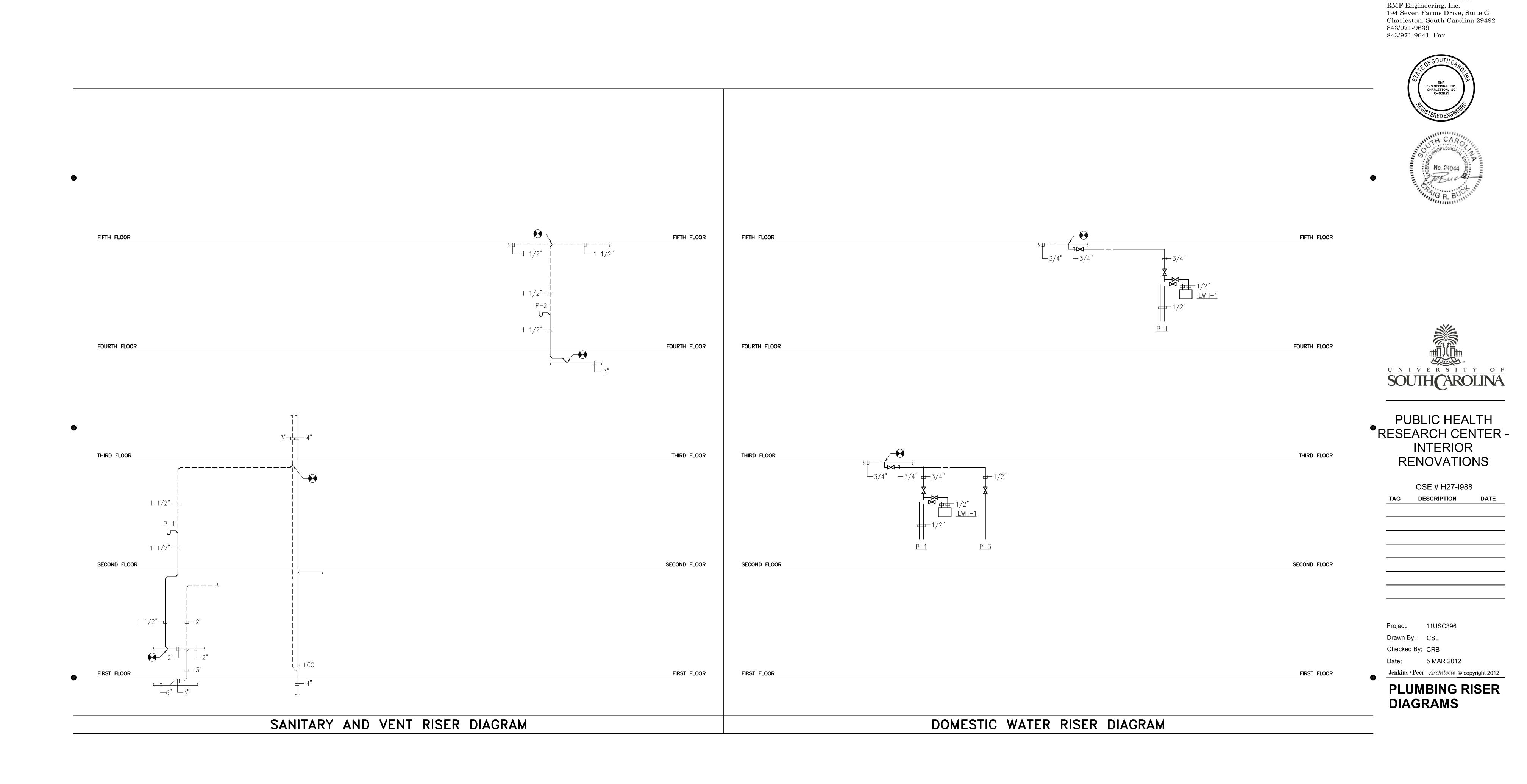
FOURTH FLOOR
DOMESTIC WATER
PIPING PLAN



FOURTH FLOOR — DOMESTIC WATER PIPING SCALE: 1/4"=1'-0"

• P2.02





• P4.01

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## THROUGH PENETRATION FIRESTOP SCHEDULE

- A. THIS SCHEDULE IDENTIFIES REQUIREMENTS FOR ACCEPTABLE THROUGH PENETRATION FIRESTOPS BASED ON BARRIER TYPE, BASIS OF BARRIER CONSTRUCTION, AND PENETRANT TYPE. THIS IS A STANDARD THROUGH PENETRATION FIRESTOP SCHEDULE.
  SOME BARRIERS AND/OR PENETRANT TYPES MAY NOT APPEAR ON THE DRAWINGS.
- B. THROUGH PENETRATION FIRESTOPS ARE NOT REQUIRED FOR FLOOR PENETRATIONS CONTAINED TOTALLY WITHIN A RATED SHAFT ENCLOSURE.
- C. FOR EACH PENETRATION, SELECT A THROUGH PENETRATION FIRESTOP BASED ON ACTUAL FIELD CONDITIONS, WHICH INCLUDE BUT ARE NOT LIMITED TO PENETRATION SIZE, PENETRATION SHAPE, PENETRANT MATERIAL(S), QUANTITY OF PENETRANTS PER PENETRATION, AND LOCATION(S) OF PENETRANT(S) WITHIN PENETRATION.
- D. NOMENCLATURE OF UL CLASSIFIED FIRESTOP ASSEMBLIES USED IN THIS SCHEDULE IS IDENTICAL TO THAT USED IN CATALOGS OF APPROVED FIRESTOP MANUFACTURERS (SEE DIVISION 15) AND IN UNDERWRITERS LABORATORIES "FIRE RESISTANCE DIRECTORY."

| RATED BARRIER |   |                                |                     |   |  |  | PENETRANT TYPE   | -<br>-  |  |  |
|---------------|---|--------------------------------|---------------------|---|--|--|--|---|--|--|
| TYPE          | BASIS OF<br>CONSTRUCTION                      | FIRESTOP ASSEMBLY REQUIREMENTS |                     | NO<br>PENETRANTS                                  | METALLIC, UNINSULATED PIPE OR TUBING (EX. COPPER, IRON, STEEL) (NOTE 14) | NONMETALLIC, UNINSULATED PIPE OR TUBING (EX. PVC, PP, CPVC, GLASS, FRPP) | INSULATED PIPES (EX. COPPER, IRON PLASTIC, STEEL) IN SYSTEMS OPERATING BETWEEN 32°F AND 122°F (NOTE 1) | INSULATED PIPES (EX. COPPER, IRON PLASTIC, STEEL) IN SYSTEMS OPERATING BELOW 32°F OR ABOVE 122°F (NOTE 2) | METAL DUCT<br>(NOTE 3)                           | RECESSED DEVICES<br>(NOTE 4)                     |
|               |   | UL CLASSIFIED                  | SINGLE PENETRANT    | W-L-0000 SERIES                                   | W-L-1000 SERIES  | W-L-2000 SERIES  | W-L-5000 SERIES  | W-L-5000 SERIES   | W-L-7000 SERIES                                  | W-L-7000 SERIES                                  |
| WALL          | WOOD STUDS &<br>GYPSUM WALLBOARD              | SERIES                         | MULTIPLE PENETRANTS | OR NOTE 5   |  | 00 SERIES<br>TE 6)   | W-L-8000 SERIES<br>(NOTE 6)  | W-L-8000 SERIES<br>(NOTE 6)   | N/A  | NOTE 8   |
| WALL          | (U300 SERIES)                                 | F                              | RATING              | EQUAL TO WALL<br>RATING                           | EQUAL TO WALL<br>RATING  | EQUAL TO WALL<br>RATING  | EQUAL TO WALL<br>RATING  | EQUAL TO WALL<br>RATING   | EQUAL TO WALL<br>RATING                          | EQUAL TO WALL<br>RATING                          |
|               |   | Т                              | RATING              | NOTE 10   | NOTE 10  | NOTE 10  | NOTE 10  | NOTE 10   | NOTE 10  | NOTE 10  |
|               |   | EXCEPTIONS/ A                  | ADDED REQUIREMENTS  | NONE  | NOTE 13  | NOTE 13  | NONE   | NOTE 7  | NONE   | NONE   |
|               |   | UL CLASSIFIED                  | SINGLE PENETRANT    | W-L-0000 SERIES                                   | W-L-1000 SERIES  | W-L-2000 SERIES W-L-5000 SERIES  | W-L-5000 SERIES  | W-L-5000 SERIES   | W-L-7000 SERIES                                  | W-L-7000 SERIES                                  |
|               | METAL STUDS & GYPSUM WALLBOARD  (U400 SERIES) |                                | MULTIPLE PENETRANTS | OR NOTE 5   |  | 00 SERIES<br>TE 6)   | W-L-8000 SERIES<br>(NOTE 6)  | W-L-8000 SERIES<br>(NOTE 6)   | N/A  | NOTE 8   |
| WALL          |   | F                              | RATING              | EQUAL TO WALL<br>RATING                           | EQUAL TO WALL<br>RATING  | EQUAL TO WALL<br>RATING  | EQUAL TO WALL<br>RATING  | EQUAL TO WALL<br>RATING   | EQUAL TO WALL<br>RATING                          | EQUAL TO WALL<br>RATING                          |
|               |   | Т                              | RATING              | NOTE 10   | NOTE 10  | NOTE 10  | NOTE 10  | NOTE 10   | NOTE 10  | NOTE 10  |
|               |   | EXCEPTIONS/ A                  | ADDED REQUIREMENTS  | NONE  | NOTE 13  | NOTE 13  | NONE   | NOTE 7  | NONE   | NONE   |
|               | TO POURED CONCRETE.                           | UL CLASSIFIED                  | SINGLE PENETRANT    | W-J-0000 SERIES                                   | C-AJ-1000 OR<br>W-J-1000 SERIES  | C-AJ-2000 OR<br>W-J-2000 SERIES  | C-AJ-5000 OR<br>W-J-5000 SERIES  | C-AJ-5000 OR<br>W-J-5000 SERIES   | C-AJ-7000 OR<br>W-J-7000 SERIES                  | NOTE 8   |
| WALL          | CONCRETE BLOCK OR  MASONRY                    | SERIES                         | MULTIPLE PENETRANTS | OR NOTE 5  C-AJ-8000 OR W-J-8000 SERIES  (NOTE 6) |  | C-AJ-8000 OR<br>W-J-8000 (NOTE 6)  | C-AJ-8000 OR<br>W-J-8000 (NOTE 6)  | N/A   | 11312 3  |  |
| WALL          | (BLOCK & U900 SERIES)                         | F                              | RATING              | EQUAL TO WALL<br>RATING                           | EQUAL TO WALL<br>RATING  | EQUAL TO WALL<br>RATING  | EQUAL TO WALL<br>RATING  | EQUAL TO WALL<br>RATING   | EQUAL TO WALL<br>RATING                          | EQUAL TO WALL<br>RATING                          |
|               | (ANY THICKNESS)                               | Т                              | RATING              | NOTE 10   | NOTE 10  | NOTE 10  | NOTE 10  | NOTE 10   | NOTE 10  | NOTE 10  |
|               |   | EXCEPTIONS/ A                  | ADDED REQUIREMENTS  | NONE  | NOTES 12 & 13  | NOTE 13  | NONE   | NOTE 7  | NONE   | NONE   |
|               |   | UL CLASSIFIED                  | SINGLE PENETRANT    | C-AJ-0000 SERIES<br>F-A-0000 SERIES               | C-AJ-1000 OR<br>F-A-1000 SERIES  | C-AJ-2000 OR<br>F-A-2000 SERIES  | C-AJ-5000 OR<br>F-A-5000 SERIES  | C-AJ-5000 OR<br>F-A-5000 SERIES   | C-AJ-7000 OR<br>F-A-7000 SERIES                  | NOTE 8   |
|               | POURED CONCRETE                               | SERIES                         | MULTIPLE PENETRANTS | OR NOTE 5   |  | F-A-8000 SERIES<br>TE 6)   | C-AJ-8000 OR<br>F-A-8000 (NOTE 6)  | C-AJ-8000 OR<br>F-A-8000 (NOTE 6)   | N/A  |  |
| FLOOR         | (ANY THICKNESS)                               | F RATING                       |                     | EQUAL TO FLOOR RATING,<br>BUT NOT LESS THAN 1 HR  | EQUAL TO FLOOR RATING,<br>BUT NOT LESS THAN 1 HR                         | EQUAL TO FLOOR RATING,<br>BUT NOT LESS THAN 1 HR                         | EQUAL TO FLOOR RATING,<br>BUT NOT LESS THAN 1 HR   | EQUAL TO FLOOR RATING,<br>BUT NOT LESS THAN 1 HR  | EQUAL TO FLOOR RATING,<br>BUT NOT LESS THAN 1 HR | EQUAL TO FLOOR RATING,<br>BUT NOT LESS THAN 1 HR |
|               |   | Т                              | RATING              | NOTE 11   | NOTE 11  | NOTE 11  | NOTE 11  | NOTE 11   | NOTE 11  | NOTE 11  |
|               |   | EXCEPTIONS/ ADDED REQUIREMENTS |                     | NONE  | NOTE 12  | NONE   | NONE   | NOTE 7  | NONE   | NONE   |

### <u>NOTES</u>

- 1. EXAMPLES OF SYSTEMS THAT OPERATE BETWEEN 32 DEGF AND 122 DEGF:
- CHILLED WATER SUPPLY & RETURN DOMESTIC HOT WATER LESS THAN 122 DEGF HEAT PUMP WATER SUPPLY & RETURN DOMESTIC HOT WATER RECIRCULATION LESS THAN 122 DEGF DOMESTIC COLD AND TEMPERED WATER
- 2. EXAMPLES OF SYSTEMS OPERATING BELOW 32 DEGF OR ABOVE 122 DEGF:

STEAM SUPPLY & RETURN STEAM VENT CONDENSATE PUMP DISCHARGE BOILER BLOWDOWN

HEATING HOT WATER SUPPLY & RETURN
HOT-CHILLED WATER SUPPLY & RETURN
GLYCOL HEATING HOT WATER SUPPLY & RETURN
DOMESTIC HOT WATER SUPPLY 140 DEGF
DOMESTIC HOT WATER RECIRCULATION 140 DEGF

CRYOGENIC VENT ENGINE GENERATOR EXHAUST

- 3. THIS SCHEDULE'S DATA APPLY ONLY TO PENETRATIONS WITHOUT DAMPERS. FOR DAMPERED PENETRATIONS, REFER TO SPECIFICATIONS. AT DAMPERS, DO NOT APPLY MATERIAL THAT IS NOT INCLUDED IN THE DAMPER'S CLASSIFICATION.
- 4. EXAMPLES OF RECESSED DEVICES:

MEDICAL GAS ZONE VALVES

MEDICAL GAS OUTLETS

FIRE VALVE CABINETS

FIRE HOSE CABINETS

CENTRAL VACUUM OUTLETS

- 5. SEAL OPENING USING BARRIER'S ORIGINAL CONSTRUCTION.
- 6. WHERE A SERIES 8000 CLASSIFIED SYSTEM IS NOT AVAILABLE, INSTALL PENETRANTS SINGLY, AND PROVIDE SINGLE-PENETRANT SYSTEMS.

- 7. FOR SYSTEMS THAT OPERATE BELOW 32°F OR ABOVE 122°F, COMPLY WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:
- A. PROVIDE TPFS SYSTEM USING INTUMESCENT ELASTOMERIC WRAP STRIP AS ITS FILL, VOID, OR CAVITY MATERIAL. B. DO NOT USE SERIES 8000 PENETRATIONS. PROVIDE ONLY SINGLE PENETRATIONS.
- 8. WHERE UL CLASSIFIED SYSTEMS ARE NOT AVAILABLE FOR OTHER RECESSED DEVICES, MAINTAIN CONTINUITY OF RATED BARRIER CONSTRUCTION AROUND RECESS.
- 9. REQUIREMENTS FOR MEMBRANE PENETRATIONS AND THROUGH PENETRATIONS ARE IDENTICAL.
- 10. TEMPERATURE (T) RATINGS OF ASSEMBLIES IN WALLS MAY EQUAL ZERO.
- 11. TEMPERATURE (T) RATINGS OF ASSEMBLIES IN FLOORS SHALL EQUAL THE GREATER OF EITHER THE BARRIER RATING OR ONE HOUR EXCEPT AS FOLLOWS:
- A. AN ASSEMBLY'S T RATING MAY EQUAL ZERO WHEN THE PENETRANT ABOVE THE FLOOR PENETRATION IS CONTAINED AND LOCATED WITHIN THE CAVITY OF A WALL.

12. CLASSIFIED TPFS ASSEMBLY IS NOT REQUIRED WHEN ALL THE FOLLOWING CONDITIONS ARE MET:

- A. PENETRANT HAS A MAXIMUM NOMINAL DIAMETER OF 6-INCHES. B. PENETRATION HAS A MAXIMUM AREA OF 144 SQUARE INCHES.
- C. ANNULAR SPACE IS COMPLETELY FILLED WITH CONCRETE, GROUT, OR MORTAR THE FULL THICKNESS OF THE BARRIER.
- 13. OPENINGS ACCOMMODATING NONCOMBUSTIBLE CONDUITS, PIPES AND TUBES THROUGH SINGLE MEMBRANES WHICH ARE PART OF A FIRE RESISTANCE RATED WALL ASSEMBLY ARE PERMITTED WHEN:
- A. AGGREGATE AREA OF THE MEMBRANE OPENINGS DO NOT EXCEED 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL AREA.

  14. THIS COLUMN ALSO INCLUDES WIRES AND CABLES WITH STEEL JACKETS.

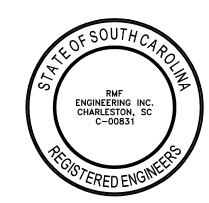
| PLUMBING FIXTURE SCHEDULE |                                   |                     |      |        |        |               |    |     |   |
|---------------------------|-----------------------------------|---------------------|------|--------|--------|---------------|----|-----|---|
| DESIGNATION               | FIXTURE                           | ROUGH-IN CONNECTION |      |        |        | FIXTURE UNITS |    |     | DEMARKS   |
|                           |                                   | CW                  | HW   | SAN    | VENT   | CW            | HW | SAN | - REMARKS   |
| P-1                       | BREAKROOM SINK                    | 1/2"                | 1/2" | 1 1/2" | 1 1/2" | 1             | 1  | 2   | COUNTERTOP MTD — SS, MANUAL GOOSENECK FAUCET, ADA |
| P-2                       | CONFERENCE ROOM SINK              | 1/2"                | 1/2" | 1 1/2" | 1 1/2" | 1             | 1  | 2   | COUNTERTOP MTD - SS, MANUAL GOOSENECK FAUCET, ADA |
| P-3                       | REFRIGERATOR/ICE MAKER CONNECTION | 1/2"                | _    | _      | _      | 0.25          | _  | _   | WALL MTD — RECESSED                               |
|                           |                                   |                     |      |        |        |               |    |     |   |

| IN          | STAN | TANEO                          | JS E      | ELEC      | TRIC                    | WATE  | ER H        | HEATER               | SCHEDULE                  |
|-------------|------|--------------------------------|-----------|-----------|-------------------------|-------|-------------|----------------------|---------------------------|
| DESIGNATION | TYPE | STORAGE<br>CAPACITY<br>GALLONS | EWT<br>°F | LWT<br>°F | RECOVERY<br>RATE<br>GPH | WATTS | INPUT<br>KW | ELECTRICAL<br>V/ø/Hz | REMARKS                   |
| IEWH-1      | А    | _                              | 50        | 110       | _                       | 9000  | _           | 277/1/60             | MINIMUM FLOW RATE 1.0 GPM |

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PLUMBING SCHEDULES