PIPE INSULATION SHALL BE HEAVY DUTY FIBERGLASS WITH ASJ JACKET AND VINYL FITTING COVERS.

ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.

ALL PIPING FOR HYDRONICS SHALL BE ASTM A.

THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS’ INSTALLATION INSTRUCTIONS. TESTING SHALL BE AT THE CONTRACTOR’S EXPENSE.

THE CONTRACTOR SHALL CONSULT MANUFACTURERS’ INSTALLATION INSTRUCTIONS FOR SIZES, MACHINERY, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BEGINNING PROJECT.

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING A PRESENTATION TO THE ENGINEER IN WRITING.

GM-3 - ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ARCHITECT SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.

GM-4 - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

GM-5 - THE WORKING DRAWINGS ARE DIAGRAMMATIC, THEY DO NOT SHOW EVERY OUTFITTING, BEND, OR ELBOW THAT MAY BE REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE INSTALLATION IN THE SPACE SHOWN. ALL LOCATIONS AND EQUIPMENT SHOWN ON THE WORKING DRAWINGS SHALL BE FIELD VERIFIED AND CoORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL CONSULT THE GENERAL CONTRACTOR IF BIDDERS ENCOUNTER ANY LOCAL CODE, STATE, OR FEDERAL CODES OR REGULATIONS THAT ARE NOT SHOWN.

GM-6 - THE CONTRACTOR SHALL PROVIDE AND INSTALL FIRE AND SMOKE DAMPERS AS REQUIRED BY LOCAL, STATE, AND FEDERAL LAWS. DAMPERS SHALL BE FIELD TO SCALE TO MEET DIMENSIONS SHOWN ON PLAN.

GM-7 - THEがかかりのためstars shall be field verified and coordinated with all drawings. THE CONTRACTOR SHALL CONSULT THE GENERAL CONTRACTOR IF BIDDERS ENCOUNTER ANY LOCAL, STATE, OR FEDERAL CODES OR REGULATIONS THAT ARE NOT SHOWN.

GM-8 - THE CONTRACTOR SHALL PROVIDE AND INSTALL SHORE AND FIRE DAMPERS AS REQUIRED BY LOCAL, STATE, AND FEDERAL LAWS. DAMPERS SHALL BE FIELD TO SCALE TO MEET DIMENSIONS SHOWN ON PLAN.

GM-9 - THE CONTRACTOR SHALL PROVIDE AND INSTALL SHORE AND FIRE DAMPERS AS REQUIRED BY LOCAL, STATE, AND FEDERAL LAWS. DAMPERS SHALL BE FIELD TO SCALE TO MEET DIMENSIONS SHOWN ON PLAN.

GM-10 - THE CONTRACTOR SHALL PROVIDE AND INSTALL SHORE AND FIRE DAMPERS AS REQUIRED BY LOCAL, STATE, AND FEDERAL LAWS. DAMPERS SHALL BE FIELD TO SCALE TO MEET DIMENSIONS SHOWN ON PLAN.

GM-11 - THE CONTRACTOR SHALL PROVIDE AND INSTALL SHORE AND FIRE DAMPERS AS REQUIRED BY LOCAL, STATE, AND FEDERAL LAWS. DAMPERS SHALL BE FIELD TO SCALE TO MEET DIMENSIONS SHOWN ON PLAN.

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GM-17 - THE CONTRACTOR SHALL PROVIDE AND INSTALL SHORE AND FIRE DAMPERS AS REQUIRED BY LOCAL, STATE, AND FEDERAL LAWS. DAMPERS SHALL BE FIELD TO SCALE TO MEET DIMENSIONS SHOWN ON PLAN.

GM-18 - THE CONTRACTOR SHALL PROVIDE AND INSTALL SHORE AND FIRE DAMPERS AS REQUIRED BY LOCAL, STATE, AND FEDERAL LAWS. DAMPERS SHALL BE FIELD TO SCALE TO MEET DIMENSIONS SHOWN ON PLAN.

GM-19 - THE CONTRACTOR SHALL PROVIDE AND INSTALL SHORE AND FIRE DAMPERS AS REQUIRED BY LOCAL, STATE, AND FEDERAL LAWS. DAMPERS SHALL BE FIELD TO SCALE TO MEET DIMENSIONS SHOWN ON PLAN.
1. Contractor shall relocate existing diffuser to match new ceiling, coordinate with architectural ceiling plan.
2. Contractor shall remove return grille and all associated items in this approximate location. Field verify.
3. Existing return grille shall remain.
4. Contractor shall remove diffuser and all associated items in this approximate location. Field verify.
5. Existing ductwork shall remain.
### Diffuser and Grille Schedule

<table>
<thead>
<tr>
<th>TAG</th>
<th>MAX. FLOW</th>
<th>FACE SIZE</th>
<th>NECK SIZE</th>
<th>CEILING TYPE</th>
<th>BLOW PATTERN</th>
<th>THROW @ 50 FPM</th>
<th>MANUFACTURER &amp; MODEL</th>
<th>NOTES</th>
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<tbody>
<tr>
<td>D-1</td>
<td>200 CFM</td>
<td>24&quot; x 24&quot;</td>
<td>6&quot; x 0&quot;</td>
<td>Lay-In</td>
<td>4-Way</td>
<td>8'</td>
<td>25 Price SPD 1,2</td>
<td></td>
</tr>
<tr>
<td>D-2</td>
<td>325 CFM</td>
<td>24&quot; x 24&quot;</td>
<td>8&quot; x 0&quot;</td>
<td>Lay-In</td>
<td>4-Way</td>
<td>10'</td>
<td>25 Price SPD 1,2</td>
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<td>D-3</td>
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<td>4-Way</td>
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<td>25 Price SPD 1,2</td>
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<tr>
<td>D-4</td>
<td>180 CFM</td>
<td>12&quot; x 12&quot;</td>
<td>6&quot; x 0&quot;</td>
<td>Hard</td>
<td>4-Way</td>
<td>10'</td>
<td>25 Price MSBL 1,2,3</td>
<td></td>
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<tr>
<td>EG-1</td>
<td>180 CFM</td>
<td>8&quot; x 8&quot;</td>
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<td>Hard</td>
<td>N/A</td>
<td>0'</td>
<td>25 Price MSBL 1,2,3</td>
<td></td>
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<tr>
<td>EG-2</td>
<td>250 CFM</td>
<td>10&quot; x 10&quot;</td>
<td>10&quot; x 10&quot;</td>
<td>Hard</td>
<td>N/A</td>
<td>0'</td>
<td>25 Price 535 1,2</td>
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<tr>
<td>EG-7</td>
<td>1200 CFM</td>
<td>24&quot; x 24&quot;</td>
<td>24&quot; x 24&quot;</td>
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<td>25 Price 535 1,2</td>
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<tr>
<td>R-1</td>
<td>600 CFM</td>
<td>24&quot; x 12&quot;</td>
<td>24&quot; x 12&quot;</td>
<td>Lay-In</td>
<td>N/A</td>
<td>0'</td>
<td>25 Price 535 1,2</td>
<td></td>
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</table>

1. Shall be priced by Titus-Tuttle and Bailey, or prior approved equal.
2. Finish shall be selected by the architect from standard color options.
3. Provide security grille with tamper proof screws.
PROVIDE VACUUM BREAKERS AND BACKFLOW PREVENTERS WHERE REQUIRED BY CODE OR WHERE HOT AND COLD WATER PIPE SHALL BE TYPE L HARD DRAWN COPPER PIPING WITH WROUGHT ANY AND ALL ALTERATION TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE OF THE DRAWING, WATER PIPING SHALL NOT BE ROUTED IN OUTSIDE WALLS OR ON EXTERIOR SIDE OF BUILDING ALL PIPING MATERIALS SHALL MEET ALL REQUIREMENTS OF IPC AND LOCAL AUTHORITY. PLASTIC CLEANING AND DISINFECTING: ALL PIPING SHALL BE FLUSHED CLEAN BEFORE CONNECTION TO GAS PIPING FROM METER TO EQUIPMENT SHALL BE ASTM A 120 GAS LINE FITTINGS SHALL BE STANDARD WELD FITTINGS WITH TAPERED REDUCERS. DO NOT USE WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ALL WATER LINES WITH QUICK OPEN OR
GENERAL NOTES:

1. CONTRACTOR SHALL REMOVE EXISTING FLOOR DRAIN. PATCH, REPAIR AND SEAL FLOOR AS NEEDED.

2. CONTRACTOR SHALL REMOVE EXISTING FIXTURE AND ASSOCIATED SEWER AND VENT PIPING FROM THIS APPROXIMATE LOCATION. PATCH, REPAIR AND SEAL FLOOR AS NEEDED.

3. CONTRACTOR SHALL REMOVE VENT PIPING IN THIS APPROXIMATE LOCATION. FIELD VERIFY.

4. EXISTING SANITARY SEWER SHALL REMAIN. PROVIDE CLEANOUT FOR ACCESS.

5. CONTRACTOR SHALL REMOVE SECTION OF DCW TO ACCOMMODATE NEW FIXTURES. FIELD VERIFY EXACT LOCATION.

6. CONTRACTOR SHALL REMOVE PIPING UP TO THIS POINT.

SHEET NOTES

1. CONTRACTOR SHALL VERIFY EXISTING PIPE LOCATIONS AND INVERTS PRIOR TO SAW CUTTING.

2. CONTRACTOR SHALL REMOVE EXISTING FIXTURE AND ASSOCIATED SEWER AND VENT PIPING FROM THIS APPROXIMATE LOCATION. PATCH, REPAIR AND SEAL FLOOR AS NEEDED.

3. CONTRACTOR SHALL REMOVE VENT PIPING IN THIS APPROXIMATE LOCATION. FIELD VERIFY.

4. EXISTING SANITARY SEWER SHALL REMAIN. PROVIDE CLEANOUT FOR ACCESS.

5. CONTRACTOR SHALL REMOVE SECTION OF DCW TO ACCOMMODATE NEW FIXTURES. FIELD VERIFY EXACT LOCATION.

6. CONTRACTOR SHALL REMOVE PIPING UP TO THIS POINT.
EXISTING SANITARY SEWER SHALL REMAIN.
2 CONTRACTOR SHALL CONNECT NEW FIXTURES TO EXISTING DWV, CHW AND HOT WATER REJEC PIPING. PROVIDE NECESSARY OFFSETS AND BENDS FOR CONNECTIONS. COORDINATE WITH EXISTING CONDITIONS.
3 CONTRACTOR SHALL TIE INTO EXISTING SANITARY SEWER AT THIS APPROXIMATE LOCATION. FIELD VERIFY.
4 CONTRACTOR SHALL TIE INTO EXISTING VENT AT THIS APPROXIMATE LOCATION. FIELD VERIFY.

EXISTING SANITARY SEWER SHALL REMAIN.
2 CONTRACTOR SHALL CONNECT NEW FIXTURES TO EXISTING DWV, CHW AND HOT WATER REJEC PIPING. PROVIDE NECESSARY OFFSETS AND BENDS FOR CONNECTIONS. COORDINATE WITH EXISTING CONDITIONS.
3 CONTRACTOR SHALL TIE INTO EXISTING SANITARY SEWER AT THIS APPROXIMATE LOCATION. FIELD VERIFY.
4 CONTRACTOR SHALL TIE INTO EXISTING VENT AT THIS APPROXIMATE LOCATION. FIELD VERIFY.

EXISTING SANITARY SEWER SHALL REMAIN.
2 CONTRACTOR SHALL CONNECT NEW FIXTURES TO EXISTING DWV, CHW AND HOT WATER REJEC PIPING. PROVIDE NECESSARY OFFSETS AND BENDS FOR CONNECTIONS. COORDINATE WITH EXISTING CONDITIONS.
3 CONTRACTOR SHALL TIE INTO EXISTING SANITARY SEWER AT THIS APPROXIMATE LOCATION. FIELD VERIFY.
4 CONTRACTOR SHALL TIE INTO EXISTING VENT AT THIS APPROXIMATE LOCATION. FIELD VERIFY.
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PROJECT DESCRIPTION

SHEET NUMBER: P401
SHEET NAME: 3/4" = 1'-0" LEVEL 1 PLUMBING ENLARGED
ISSUE DATE: 01/31/20
ISSUE TYPE: PERMIT SET
DRAWN BY: BL
CHECKED BY: BL
PROJECT: 4TH STREET CLINIC RENOVATION

SHEET NOTES

1. CONTRACTOR SHALL CONNECT NEW FIXTURES TO EXISTING DCW, DHW AND HOT WATER RECIRC PIPING, PROVIDE NECESSARY OFFSETS AND BENDS FOR CONNECTIONS.

2. CONTRACTOR SHALL TIE INTO EXISTING VENT AT THIS APPROXIMATE LOCATION. FIELD VERIFY.

3. TIE DCW/DHW INTO EXISTING MAINS AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION.

4. CONTRACTOR SHALL TIE INTO EXISTING SANITARY SEWER AT THIS APPROXIMATE LOCATION. FIELD VERIFY.

5. TIE ELECTRIC WATER COOLERS INTO DCW, SANITARY SEWER AND VENT AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION.
**TRAPEZE PIPE HANGER DETAIL C4**

- Attach to room overhead structure.
- Attach to ceiling:
  - Hanger rod
  - Heavy duty clevis hanger
  - Pipe
- Provide circuit setter in accessible location.
- Provide pipe clamps with bolts and nuts.
- 16 ga. zinc coated sheet steel shield at least 12" long (typ).
- Calcium silicate block.
- Insulation with or without vapor barrier.
- Bolt unistrut to existing wall and concrete using expansion anchor bolts.
- Mount piping to unistrut calcium silicate block.
- Provide pipe clamps with bolts and nuts.

**DOMESTIC HOT WATER RETURN DETAIL A4**

- Tied down into DW at within 2' of LAV.
- Domestic hot water return.
- Domestic cold water.
- Public lavatory.
- Spring type isolator for installation near hot water pumps.

**NOTE:**
- Provide with vapor barrier on chilled water and domestic cold water piping.
- ATTACH TO STRUCTURE PIPE (TYP.) 16 GA. ZINC COATED SHEET STEEL SHIELD AT LEAST 12" LONG. (TYP.)
- PROVIDE CIRCUIT SETTER IN ACCESSIBLE LOCATION.
- PROVIDE PIPE CLAMPS WITH BOLTS AND NUTS.
- 16 GA. ZINC COATED SHEET STEEL SHIELD AT LEAST 12" LONG (TYP).
- CALCIUM SILICATE BLOCK.
- INSULATION WITH OR WITHOUT VAPOR BARRIER.
- ATTACH TO ROOM OVERHEAD STRUCTURE.
- PROVISION FOR INSTALLATION NEAR HOT WATER PUMPS.
- MOUNT PIPING TO UNISTRUT.
- ATTACH TO EXISTING CEILING.
- PROVIDE CIRCUIT SETTER IN ACCESSIBLE LOCATION.
- PROVIDE PIPE CLAMPS WITH BOLTS AND NUTS.
- PROVIDE PIPE CLAMPS WITH BOLTS AND NUTS.
### PLUMBING FIXTURE SCHEDULE

<table>
<thead>
<tr>
<th>EQUIPMENT NUMBER</th>
<th>FIXTURE</th>
<th>P.LUMB. PIPE SIZES</th>
<th>POINT OF USE</th>
<th>TRAP</th>
<th>WASTE</th>
<th>VENT</th>
<th>REMARKS</th>
<th>PRESSURE MIXING VALVE</th>
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<tr>
<td>P601</td>
<td>ELECTRIC WATER COOLER</td>
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<td>ELECTRIC, BI-LEVEL</td>
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<td></td>
<td>WITH BOTTLE FILLER</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
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<td>1/2&quot;</td>
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<td>No</td>
<td>ELECTRIC, BI-LEVEL</td>
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<td></td>
<td>FLOOR DRAIN</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>1 1/2&quot;</td>
<td>1&quot;</td>
<td></td>
<td>No</td>
<td>PROVIDE WITH TRAP GUARD</td>
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<tr>
<td></td>
<td>ICE MACHINE WALL BOX</td>
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<td>0&quot;</td>
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<td>No</td>
<td>PROVIDE WITH TRASH CAN</td>
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<tr>
<td></td>
<td>LAVATORY</td>
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<td>1/2&quot;</td>
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<td></td>
<td>ADA WATER CLOSET</td>
<td>3&quot;</td>
<td>3&quot;</td>
<td>2&quot;</td>
<td>1&quot;</td>
<td></td>
<td>No</td>
<td>ADA COMPLIANT</td>
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**Project Description**

4TH STREET CLINIC RENOVATION

**Location:**

459 West 400 South
Salt Lake City, UT 84101

**Issue Date:** 2/20/20

**Issue Type:** PERMIT SET

**Drawn By:** BL

**Checked By:** BL

**Sheet Number:** P601

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