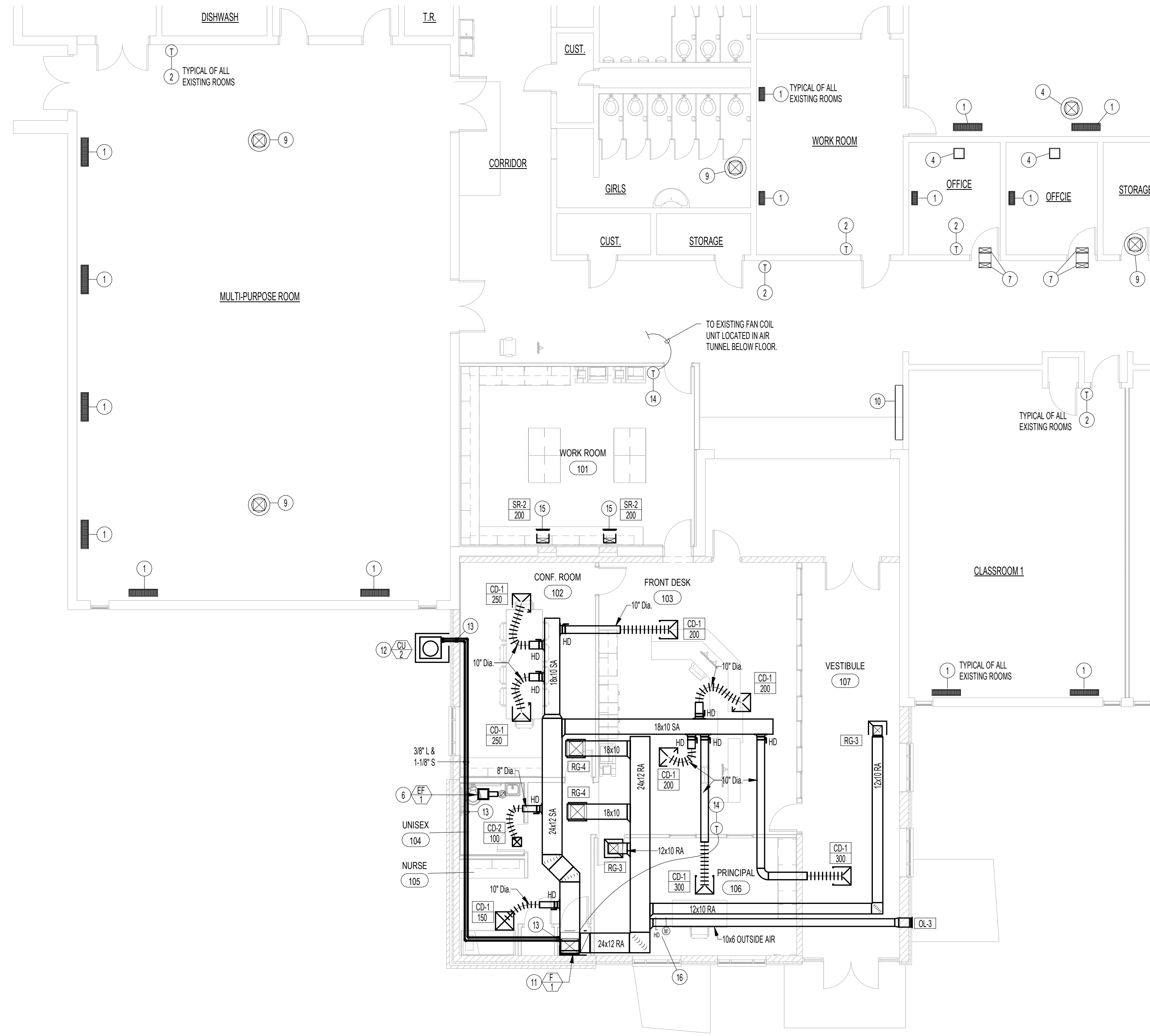
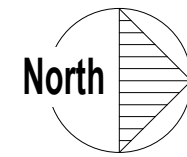


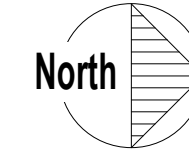
PART 1 - MECHANICAL DEMOLITION PLAN

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



PART 1 - MECHANICAL FLOOR PLAN

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



PLAN NOTES:

- 1 REMOVE EXISTING FLOOR GRILLES AS REQUIRED WHERE ROOM IS TO RECEIVE NEW FLOOR FINISH. REPLACE AFTER WORK HAS BEEN COMPLETED. (REFER TO ARCHITECTURAL PLANS). COVER EXISTING BOOT IN FLOOR WITH PLYWOOD TO KEEP CLEAN. ALL UNDERLOOR DUCTWORK AND FAN COIL IN AIR TUNNEL TO REMAIN. REMOVE AS REQUIRED FOR NEW FLOOR FINISHES. (TYPICAL OF ALL GRILLES THROUGHOUT BUILDING. REFER TO ARCHITECTURAL PLANS FOR EXTENT OF NEW FLOOR FINISHES.)
- 2 EXISTING WALL MOUNTED THERMOSTAT AND/OR SENSOR TO REMAIN. PROTECT DURING CONSTRUCTION AND MAINTAIN CONNECTION TO EXISTING EQUIPMENT. REMOVE COVER AS REQUIRED FOR NEW WALL FINISHES. (TYPICAL OF ALL CONTROLS THROUGHOUT BUILDINGS. REFER TO ARCHITECTURAL PLANS FOR EXTENT OF NEW WALL FINISHES.)
- 3 DISCONNECT, REMOVE AND RETAIN EXISTING WALL MOUNTED THERMOSTAT AND/OR SENSOR. REMOVE ALL EXISTING CONTROL WIRING TO EXISTING EQUIPMENT. REFER TO NOTE 14 FOR NEW LOCATION TO MOUNT EXISTING THERMOSTAT AND/OR SENSOR.
- 4 EXISTING CEILING MOUNTED AND/OR ROOF MOUNTED EXHAUST FAN. DUCTWORK, ROOF CAP AND CEILING GRILLE TO REMAIN. PROTECT DURING CONSTRUCTION.
- 5 DISCONNECT AND REMOVE EXISTING CEILING MOUNTED EXHAUST FAN, CONTROLS AND DUCTWORK UP THRU ROOF. FIELD VERIFY EXACT LOCATION AND SIZE OF DUCTWORK. REFER TO ARCHITECTURAL DRAWINGS FOR PITCHING OF EXISTING ROOF.
- 6 PROVIDE AND INSTALL NEW CEILING MOUNTED EXHAUST FAN AS SPECIFIED. RISE 6" DIA DUCT UP THRU ROOF WITH ROOF CAP. REFER TO DETAIL CM3.1 FOR TYPICAL INSTALLATION.
- 7 EXISTING CEILING GRILLES AND DUCTWORK FOR TRANSFER AIR TO REMAIN. PROTECT DURING CONSTRUCTION.
- 8 DISCONNECT AND REMOVE EXISTING CEILING GRILLES AND DUCTWORK ABOVE CEILING. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING DUCTWORK.
- 9 EXISTING CEILING GRILLE, DUCTWORK AND ROOF CAP FOR RELIEF AIR TO REMAIN. PROTECT DURING CONSTRUCTION.
- 10 EXISTING CABINET UNIT HEATER TO REMAIN. REMOVE EXISTING COVER AS REQUIRED FOR NEW WALL FINISH AND RE-INSTALL AFTER WORK HAS BEEN COMPLETED.
- 11 PROVIDE AND INSTALL NEW GAS FIRED FURNACE AS SPECIFIED. MOUNT FURNACE ON 1" HIGH PLENUM BASE (REFER TO DETAIL DM.1 FOR TYPICAL CONSTRUCTION OF PLENUM BASE). RISE SUPPLY AND RETURN DUCTWORK UP ABOVE CEILING AND RUN TO SPACES AS SHOWN. REFER TO DETAIL AIM.1 FOR TYPICAL FURNACE PIPING CONNECTIONS.
- 12 PROVIDE AND INSTALL NEW CONDENSING UNIT AS SPECIFIED. MOUNT UNIT AT GRADE LEVEL ON 4" THICK CONCRETE PAD. PROVIDE 1" THICK NEOPRENE PADS UNDER EACH CORNER. EXTEND REFRIGERANT PIPING TO EXTERIOR WALL AND RISE UP IN WALL CAVITY. REFER TO DETAIL CM1.1 FOR TYPICAL PIPING SUPPORT AT WALL.
- 13 RUN REFRIGERANT LINES ABOVE CEILING. DROP DOWN IN MECHANICAL ROOM AND CONNECT TO DX COOLING COIL PROVIDED. REFER TO PIPING DIAGRAM BIM.1.
- 14 MOUNT RELOCATED THERMOSTAT AND/OR SENSOR ON WALL AND CONNECT TO NEW CORRESPONDING EQUIPMENT AND TO EXISTING BUILDING CONTROL SYSTEM. (REFER TO NOTE 3)
- 15 REMOVE EXISTING FLOOR GRILLE. EXTEND EXISTING BOOT THRU FLOOR WITH 12x3 DUCT IN THE SPACE OF NEW CABINETS. CONNECT TO NEW TOE SPACE GRILLE AS SPECIFIED AND BALANCE TO 200 CFM. COORDINATE EXISTING DUCT LOCATIONS WITH NEW CABINETS BEING INSTALLED.
- 16 CONNECT 10x8 OUTSIDE AIR DUCT TO RETURN DUCT ABOVE CEILING. PROVIDE MOTORIZED DAMPER, DUCT ACCESS AND MANUAL BALANCING DAMPER IN DUCT. REFER TO DETAIL BIM.1 FOR TYPICAL DAMPER INSTALLATION. INTERLOCK MOTORIZED DAMPER WITH CORRESPONDING FURNACE AND BUILDING CONTROLS.

GENERAL NOTES:

- A- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONNECTIONS ON THE JOB SITE. ALL WORK SHALL BE EXECUTED FROM MEASUREMENTS TAKEN AT THE SITE.
- B- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO INSURE PROPER CLEARANCES FOR ELECTRICAL AND MECHANICAL ACCESS WHEN INSTALLING ANY EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR.
- C- IT IS CRITICAL THAT THIS CONTRACTOR COORDINATE EQUIPMENT LOCATIONS WITH PIPING, DUCTWORK, ELECTRICAL CONDUIT AND BUILDING STRUCTURE TO INSURE CODE COMPLIANCE.
- D- CEILING DIFFUSERS ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO LIGHTING PLANS AND REFLECTED CEILING PLAN FOR EXACT LOCATIONS.
- E- DUCT DIMENSIONS CALLED OUT ON DRAWINGS ARE INSIDE FREE AREA DIMENSIONS. ACOUSTICAL DUCT LINER ARE TO BE ADDED TO OVERALL MEASUREMENTS.
- F- ALL DUCTWORK AND PIPING WHICH PASSES THRU FIRE RATED WALLS TO BE FIRE STOPPED WITH APPROVED FOAM OR SEALANT. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS.

ORIGINAL DRAWING SIGNED BY: DWAYNE C. SUDWEEKS
 DATE ORIGINAL SIGNED: March 11, 2019 ORIGINAL ON FILE AT:
 ENGINEERED SYSTEMS ASSOCIATES 1355 EAST CENTER,
 POCATELLO, IDAHO 83201

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 PHONE: (208) 233-0501
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 EMAIL: esa@engsystems.com
 ESA JOB NUMBER: 18071

PROJECT NO. 16071
 DATE: FEBRUARY 2019
 DRAWN BY: M Jensen
 CHECKED BY: D Sudweeks

DRAWING NO.:

NOT FOR CONSTRUCTION PURPOSES

nbw architects p.a.
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ADDITION & REMODEL FOR:
MIDWAY ELEMENTARY
 JEFFERSON JOINT SCHOOL DISTRICT NO. 251
 623 N 3500 E, MENAN, IDAHO 83434

PART 1 - MECHANICAL PLANS

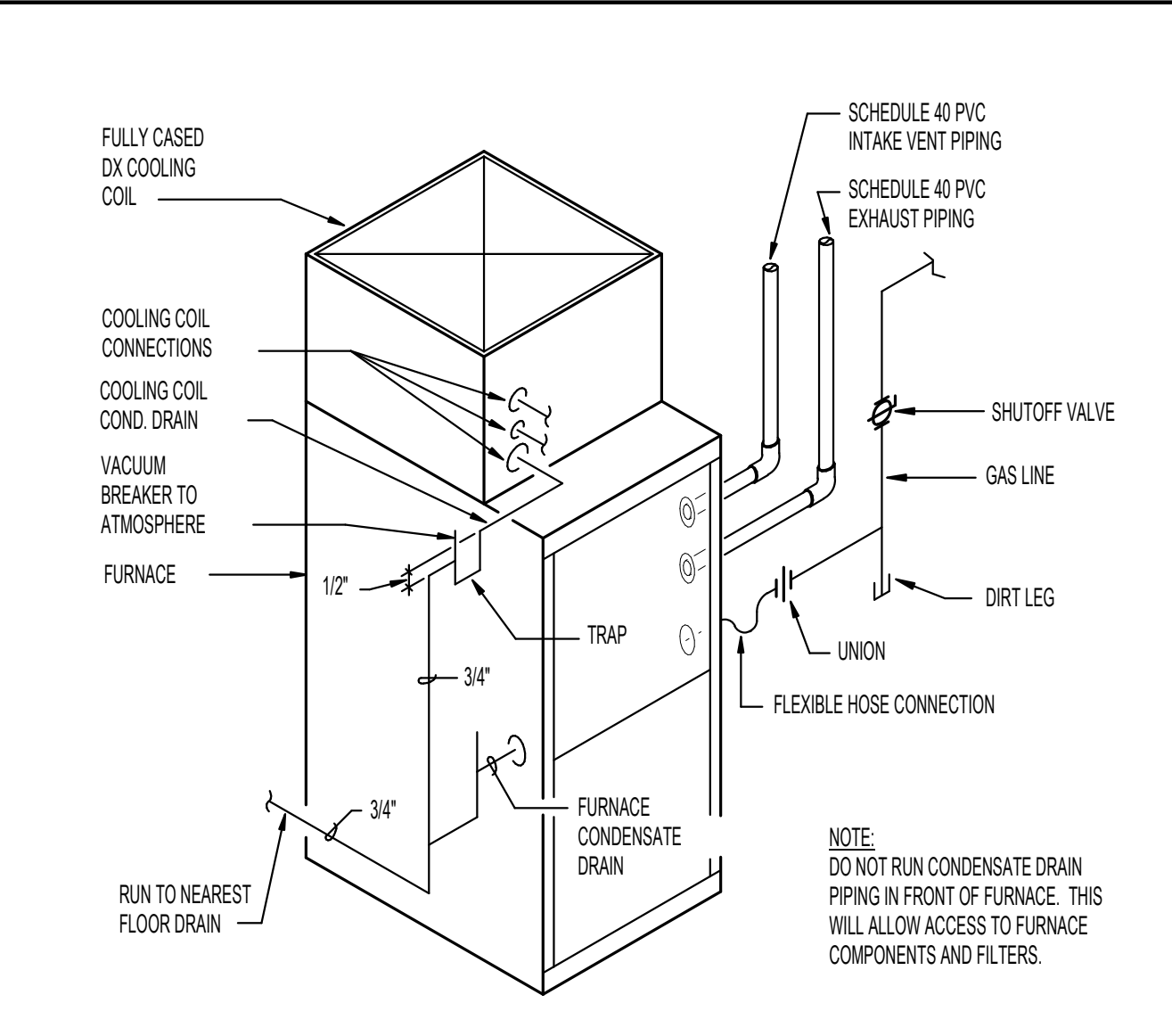
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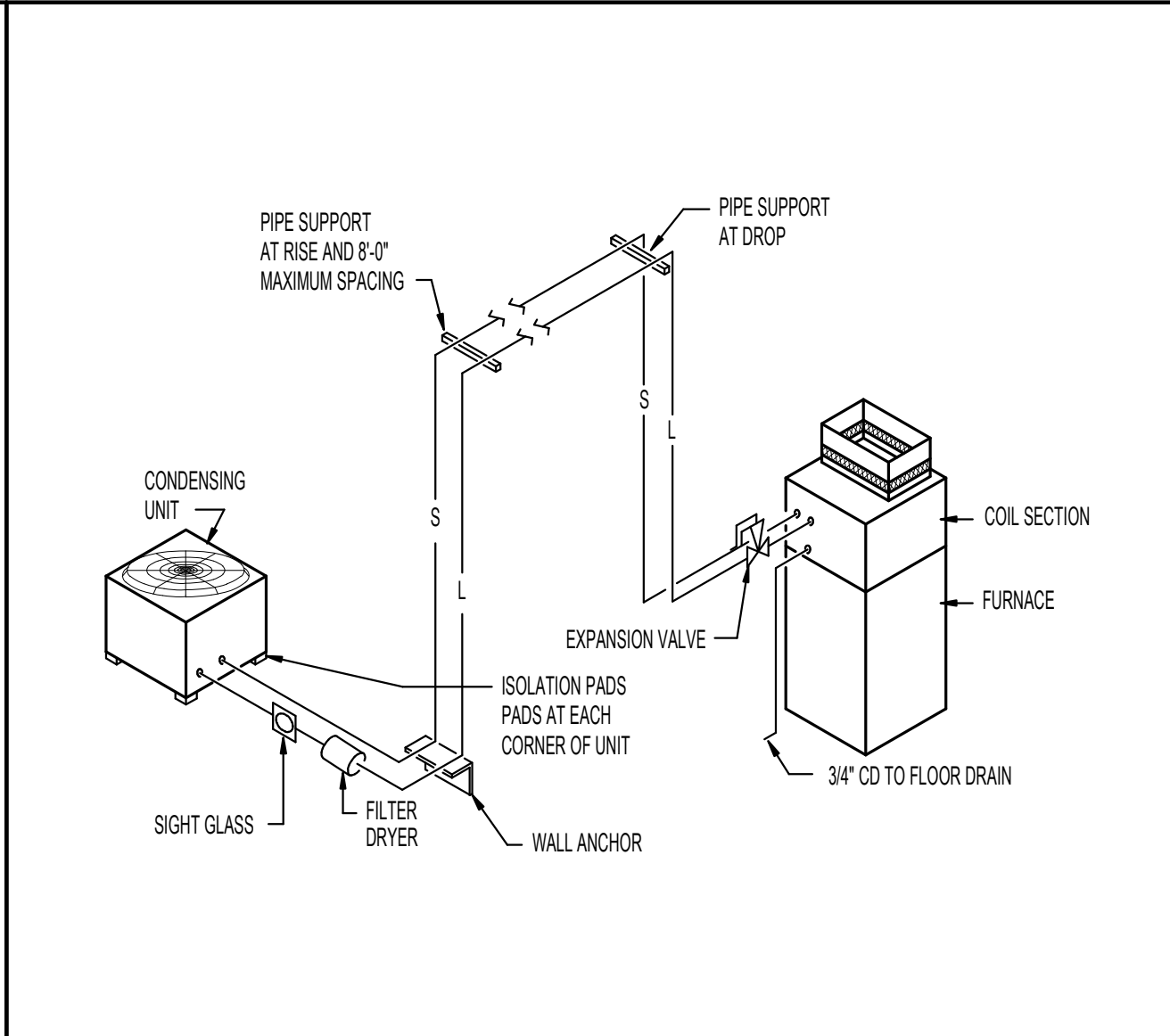
REVISIONS

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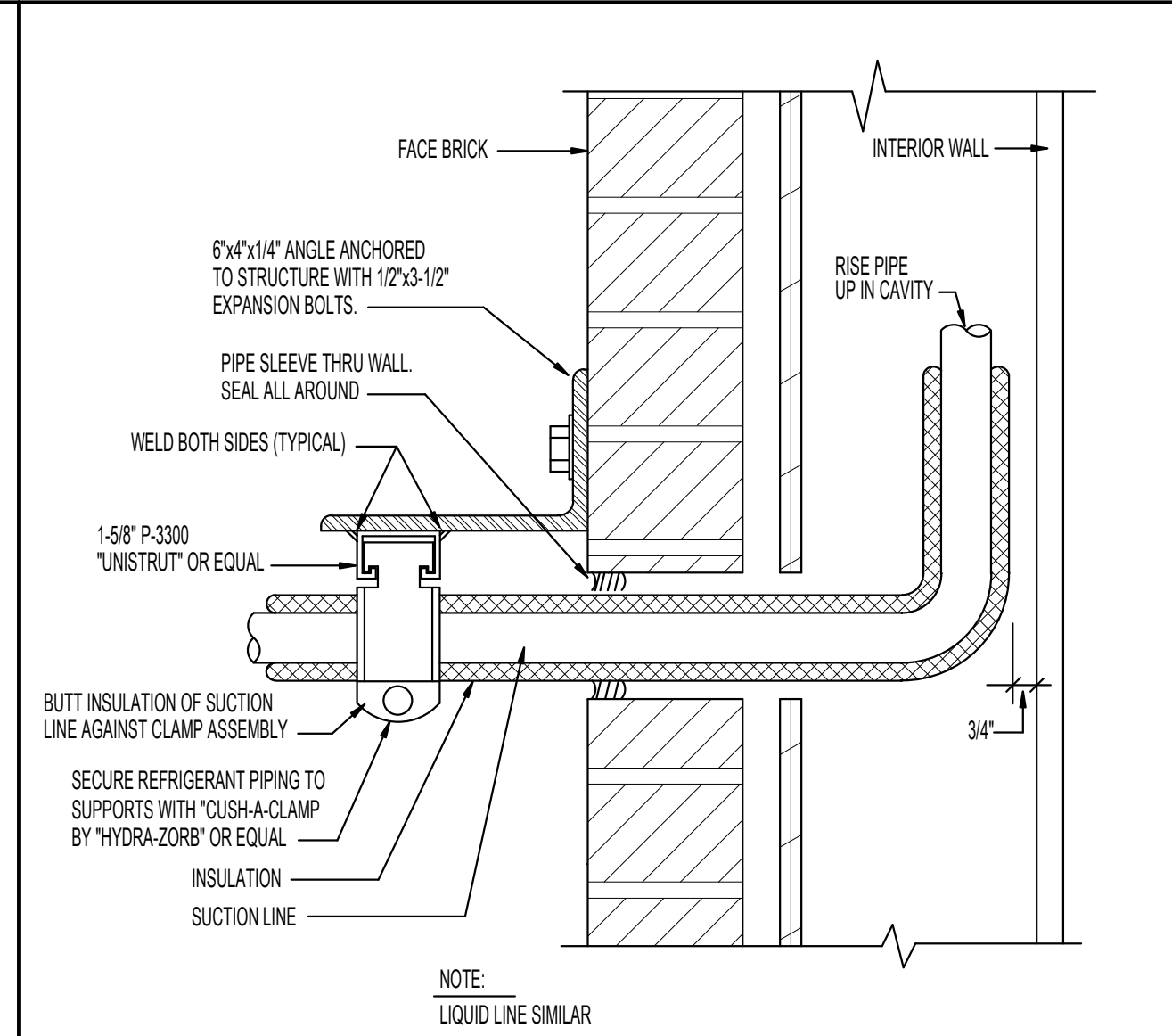
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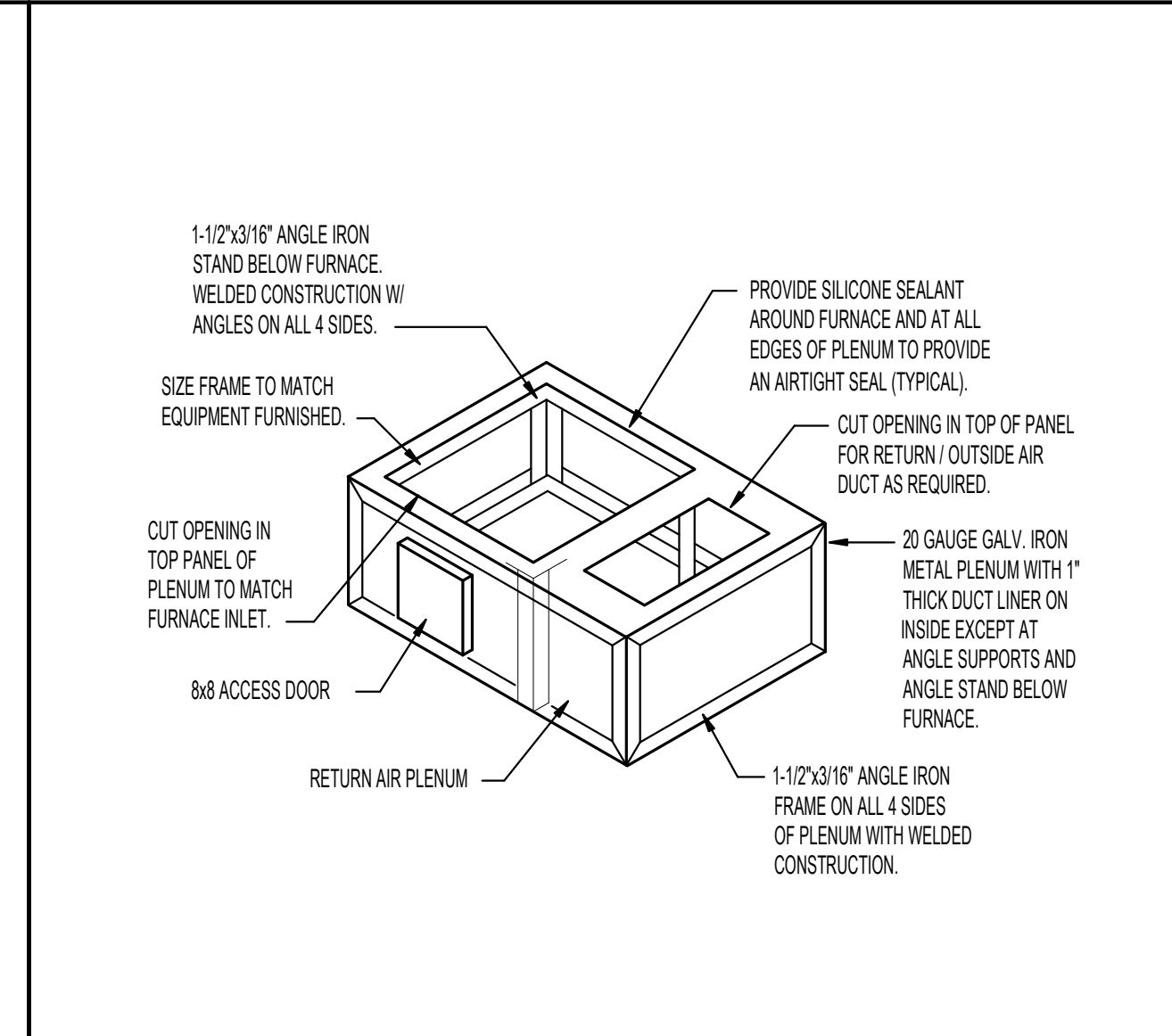
A TYPICAL FURNACE PIPING DIAGRAM NO SCALE



B REFRIGERANT PIPING DIAGRAM NO SCALE



C REFRIGERANT SUPPORT AT WALL NO SCALE



D RETURN AIR PLENUM DETAIL NO SCALE