

COORDINATE NEW DUCTWORK AND PIPING WITH EXISTING STEAM SYSTEM PIPING. REFER TO SHEET M001 FOR APPROXIMATE LOCATIONS OF EXISTING PIPING.

EXISTING RETURN GRILLES IN WALL TO REMAIN.

FILM ROOM/LOCKER ROOM

MEDIA ROOM

PUBLIC HEALTH

OFFICE

LOBBY

CORRIDOR

STORAGE

PILATES CLASS

FITNESS ASSESSMENT

DANCE

P.T. CLASSROOM

ATHLETIC STORAGE

ATHLETIC TRAINING/P.T.

STORAGE

CLASSROOM

EXERCISE PSYCHOLOGY

HYDROSTATIC WEIGHING

LAB

STAIRS

STORMECH

STORMECH

STORMECH

STORMECH

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COORDINATE NEW DUCTWORK AND PIPING WITH EXISTING STEAM SYSTEM PIPING. REFER TO SHEET M001 FOR APPROXIMATE LOCATIONS OF EXISTING PIPING.

CONTRACTOR TO FIELD VERIFY EXISTING CONSTRUCTION MATERIALS AND PROVIDE CORE DRILLING THRU WALLS AND FLOORS AS REQUIRED TO INSTALL NEW DUCTWORK.

STORAGE 114 FUTURE 3 TON UNIT. TYPICAL OF 3 UNITS FOR THIS ROOM.

- PLAN NOTES: (continued)**
- 18 PROVIDE AND INSTALL NEW CONDENSATE RETURN RECEIVING TANK AND PUMPS AS SPECIFIED. REFER TO DETAILS ON SHEET M201 FOR TYPICAL PIPING CONNECTIONS.
  - 19 PROVIDE AND INSTALL NEW CEILING AND/OR SIDEWALL GRILLE AS SPECIFIED. CONNECT TO ROUND EXHAUST DUCT IN CORRIDOR AS INDICATED. COORDINATE WITH BUILDING STRUCTURE.
  - 20 PROVIDE AND INSTALL NEW SURFACE MOUNTED CEILING TYPE FAN COIL AS SPECIFIED. COORDINATE ACTUAL LOCATION WITH BUILDING STRUCTURE AND LIGHT FIXTURES. CONNECT TO WALL MOUNTED CONTROL. PROVIDE SURFACE MOUNTED UNIT CASSETTE COVER.

STORAGE 114 FUTURE 3 TON UNIT. TYPICAL OF 2 UNITS FOR THIS ROOM.

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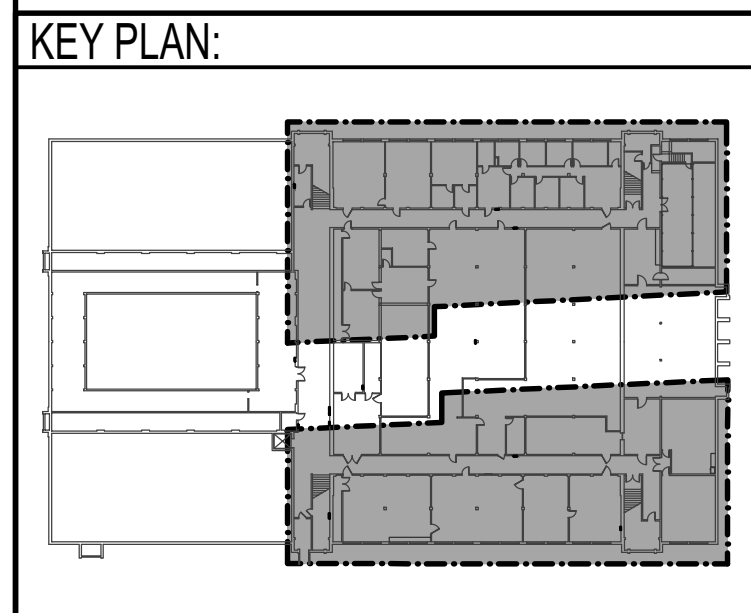
STORAGE 114 FUTURE 3 TON UNIT. TYPICAL OF 2 UNITS FOR THIS ROOM.

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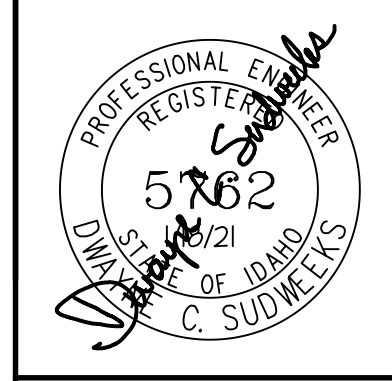
STORAGE 114 FUTURE 3 TON UNIT. TYPICAL OF 2 UNITS FOR THIS ROOM.

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- PLAN NOTES:**
- 1 EXISTING EXHAUST FAN, EXISTING DUCT AND LOUVER TO REMAIN. EXISTING STEAM AND CONDENSATE PIPING ALSO TO REMAIN. PROTECT DUCTWORK AND PIPING DURING CONSTRUCTION.
  - 2 RUN NEW ROUND DUCTWORK AS HIGH AS POSSIBLE TO CONCRETE FLOOR STRUCTURE ABOVE. DUCTS MAY HAVE TO DROP DOWN AND RISE BACK UP AGAIN TO CROSS UNDER BEAMS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING CHANGES TO ALLOW DUCTWORK TO BE TIGHT AGAINST CONCRETE STRUCTURE. FIELD VERIFY EXISTING CONDITIONS. DUCTWORK TO BE ABOVE CEILINGS WHERE POSSIBLE.
  - 3 PROVIDE MANUAL DAMPER IN ROUND OUTSIDE AIR DUCT OR EXHAUST AIR DUCT. BALANCE TO CFM AS CALLED OUT.
  - 4 PROVIDE OUTSIDE AIR OR EXHAUST AIR GRILLE AS SPECIFIED. MOUNT GRILLE IN BOTTOM OF ROUND DUCT AND BALANCE TO CFM AS INDICATED. REFER TO DETAIL BM301.
  - 5 PROVIDE AND INSTALL NEW RECESSED CEILING MOUNTED FAN COIL UNIT AS SPECIFIED. COORDINATE ACTUAL LOCATION WITH BUILDING STRUCTURE AND LIGHT FIXTURES. CONNECT NEW UNIT TO NEW WALL MOUNTED CONTROLS.
  - 6 PROVIDE AND INSTALL NEW DIGITAL (WIRED) CONTROLS ON WALL AND CONNECT TO CORRESPONDING FAN COIL UNIT(S) AS SHOWN.
  - 7 PROVIDE AND INSTALL NEW VERTICAL DUCTED FAN COIL UNIT AS SPECIFIED. CONNECT TO EXISTING DUCTWORK AND BALANCE EXISTING DIFFUSERS TO CFMS AS INDICATED.
  - 8 PROVIDE AND INSTALL NEW HORIZONTAL FAN COIL UNIT AS SPECIFIED. MOUNT AS HIGH AS POSSIBLE.
  - 9 KEEP REFRIGERANT PIPING UP AS TIGHT AS POSSIBLE TO CONCRETE FLOOR STRUCTURE ABOVE. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND MAKE ADJUSTMENTS TO PIPE ROUTING TO AVOID CONFLICTS WITH STRUCTURE.
  - 10 DROP PIPING DOWN BELOW EXISTING CONCRETE BEAM AND RISE BACK UP AGAIN. KEEP ALL PIPING AS HIGH AS POSSIBLE.
  - 11 RISE OUTSIDE AIR AND/OR EXHAUST AIR DUCTS UP THRU FLOOR ABOVE. REFER TO SHEET M102 FOR CONTINUATION OF DUCTWORK ABOVE. COORDINATE DUCT RISES WITH EXISTING CONCRETE FLOOR STRUCTURE. DO NOT CUT ANY BEAM SUPPORTS. ALIGN DUCT RISES WITH WALLS AND MECHANICAL ROOMS ABOVE. KEEP DUCTWORK AS CLOSE TO WALL ON MAIN LEVEL AS POSSIBLE. PROVIDE 1 HOUR FIRE DAMPER AT MAIN FLOOR PENETRATION IN EACH DUCT. REFER TO DETAIL DM301 FOR TYPICAL INSTALLATION.
  - 12 EXISTING DIFFUSER TO REMAIN. RE-BALANCE EXISTING DIFFUSER TO CFM AS INDICATED.
  - 13 PROVIDE AND INSTALL BRANCH SELECTOR BOX ABOVE CEILING. CONNECT TO (3) REFRIGERANT LINES FROM HEAT RECOVERY UNIT AND TO CORRESPONDING FAN COIL UNITS AS SHOWN. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - 14 RISE REFRIGERANT LINES UP THRU FLOOR ABOVE. REFER TO SHEET M102 FOR CONTINUATION OF PIPING ON MAIN LEVEL.
  - 15 CONNECT ROUND O.A. DUCT TO RETURN DUCT OF NEW FAN COIL UNIT. (VERTICAL OR HORIZONTAL) PROVIDE BALANCING DAMPER AND DUCT TRANSITION AS REQUIRED FOR CONNECTION.
  - 16 CONNECT NEW 2-1/2" STEAM SUPPLY LINE TO EXISTING 2-1/2" (OR LARGER) STEAM SUPPLY NEAR CEILING. RUN TO NEW HEAT EXCHANGER AS SHOWN. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING STEAM SUPPLY PIPING.
  - 17 RISE NEW PUMPED CONDENSATE RETURN LINE UP NEAR CEILING AND CONNECT TO EXISTING CONDENSATE RETURN PIPING. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING CONDENSATE RETURN PIPING.



ORIGINAL DRAWING SIGNED BY: DWYANE C. SUDWEEKS  
 DATE ORIGINAL SIGNED: Feb 16, 2021  
 ORIGINAL ON FILE AT ENGINEERED SYSTEMS ASSOCIATES  
 1355 EAST CENTER, POCATELLO, IDAHO 83201



**Engineered Systems Associates**  
 1355 EAST CENTER  
 POCATELLO, IDAHO 83201  
 PHONE: (208) 233-0501  
 FAX: (208) 233-0529  
 EMAIL: eso@engsystems.com  
 ESA JOB NUMBER: 18050

CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS SHOWN OR IMPLIED.  
 DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE.  
 REVISION: DATE

DRAWN BY: M. JENSEN  
 CHECKED BY: D. SUDWEEKS  
 JOB NUMBER: 18050  
 PROJECT DATE: FEBRUARY 2021  
 SHEET: M101 OF 12

**Myers Anderson**  
 Architecture  
 Interior Design  
 Landscape Architecture

122 South Main Street • Pocatello, Idaho 83204 • Tel: (208) 232-3741 • Fax: (208) 232-3782  
 927 Main Street, Suite 300 • Evanston, Wyoming 82930 • Tel: (307) 789-0934

**REED GYM HVAC UPGRADE  
 IDAHO STATE UNIVERSITY  
 DPW # 19227**

**POCATELLO, IDAHO**

**FIRST FLOOR MECHANICAL PLAN**

PROJECT: REED GYM HVAC UPGRADE IDAHO STATE UNIVERSITY DPW # 19227  
 SHEET TITLE: FIRST FLOOR MECHANICAL PLAN

APPROVAL: BLD2009-00063  
 REVIEWED FOR CODE COMPLIANCE  
 This approval shall not be construed to be an approval of any violation of, or variance from, Idaho's adopted codes, standards, laws or rules applicable to this project.  
 SEPARATE BUILDING PERMIT REQUIRED FOR CONSTRUCTION