KEYED NOTES:
1. INTERLOCK EXHAUST FAN EF-2 WITH LOUVER L-1 FROM WALL SWITCH.
2. 3/4" C 2#12, 1#10G INTERLOCK LOUVER L-2 WITH EXISTING EXHAUST HOOD SWITCH. CONNECT TO EXISTING CIRCUIT.
3. 3/4" C 2#12, 1#10G DOWN / UP TO EXHAUST FAN EF-2.
4. SIZE 1 COMBINATION MOTOR STARTER DISCONNECT WITH 120 VOLT CONTROL VOLTAGE. INTERLOCK EF-1, MAU-1 AND L-1.
5. 3/4" C 2#12, 1#10G INTERLOCK DOWN/UP TO SWITCH AND L-1.
6. 3/4" C 2#12, 1#10G INTERLOCK DOWN/UP TO MAU-1.
7. INTERLOCK EF-1, MAU-1 AND L-1 FROM WALL SWITCH.
8. RELOCATE EXISTIG WALL HEATER AND BRANCH CIRCUIT TO LOCATION SHOWN.

MATERIALS LAB MODIFICATION
5151 S 5TH AVE.
POCATELLO, IDAHO

IDAH Od TRANS. DEPT.
MATERIALS LAB MODIFICATION
5151 S 5TH AVE., IDAHO

SHEETS
1. MATERIALS LAB MECHANICAL POWER PLAN
2. ROOF MECHANICAL POWER PLAN
3. MATERIALS LAB MODIFICATION

MATERIALS LAB MECHANICAL POWER PLAN
ROOF MECHANICAL POWER PLAN
ITD POCATELLO KEY PLAN

20-08-21
SEE PLANS
E1.0
MECHANICAL GENERAL NOTES

1. ALL MECHANICAL EQUIPMENT AND APPARATUS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE (IMC) FOR STRUCTURAL DESIGN, AND ALL RELEVANT STATE CODES.

2. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS INVOLVED WITH THE MECHANICAL SYSTEMS TO BE INSTALLED.

3. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS INVOLVED WITH THE MECHANICAL SYSTEMS TO BE INSTALLED.

4. THE CONTRACTOR UNDER THIS CONTRACT. THE OWNER SHALL RETAIN THE RIGHT TO KEEP ANY REMOVED ITEMS.

5. FIELD CONDITIONS AND CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR ALTERNATIVE METHODS SUBMITTED AND CONTRACTS AWARDED FOR FAILURE TO VERIFY EXISTING FIELD CONDITIONS. DISCREPANCIES BETWEEN ACTUAL TECHNICIAN BEFORE THE USE OF THE BUILDING POTABLE WATER SYSTEM.

6. THE CONTRACTOR IS RESPONSIBLE FOR ALL BACKFLOW DEVICES TO BE INSPECTED BY A CERTIFIED BACKFLOW TECHNICIAN BEFORE THE USE OF THE BUILDING POTABLE WATER SYSTEM.

7. PROTECT MECHANICAL SYSTEMS FROM WATER AND DUST DURING INSTALLATION. ALL DUCT JOINTS, SEAMS, AND CONNECTIONS SHALL BE FASTENED AND SEALED WITH WELDS, GASKETS, ADHESIVES, MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, OR MASTICS. TAPES AND MASTICS SHALL BE LISTED AND LABELED PER UL181A OR UL181B.

8. EXHAUST GRILLE SHALL BE SEALED AND MECHANICALLY FASTENED.

9. THE EXISTING DOMESTIC WATER SERVICE IS PROVIDED WITH BACKFLOW PREVENTER. SEE MECHANICAL SCHEDULE SHEET FOR SCHEDULED CAPACITIES OF ALL MECHANICAL EQUIPMENT AND MATERIALS SPECIFIED.

10. ALL MECHANICAL EQUIPMENT TO BE PROPOSED MUST BE ON THE APPROVED LIST PRIOR TO SUBMITTALS. ALL APPROVED MOVABLE EQUIPMENT AND MOTORIZED EQUIPMENT AND CONTROLS.

11. PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL BACKFLOW DEVICES TO BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE (IPC) FOR STRUCTURAL DESIGN, AND ALL RELEVANT STATE CODES.

12. PROVIDE REMOTE CEILING ACCESS BALANCE DAMPERS WITH CONCEALED CHROME PLATE COVERS FOR BALANCE DAMPERS TO BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL HVAC CODE (IHVAC) FOR STRUCTURAL DESIGN, AND ALL RELEVANT STATE CODES.

13. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL BACKFLOW DEVICES TO BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE (IPC) FOR STRUCTURAL DESIGN, AND ALL RELEVANT STATE CODES.

14. PROVIDE BACKFLOW DEVICES TO BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE (IPC) FOR STRUCTURAL DESIGN, AND ALL RELEVANT STATE CODES.

15. PRESSURE GAGE (LIQUID FILLED W/ TYPICAL INSULATION THICKNESS REQUIRED TO MEET THESE REQUIREMEN

ENERGY CODE COMPLIANCE


B. MINIMUM REQUIREMENT FOR RATE CORRECTION OF THE ELECTRICAL CODE FOR THE PROJECT.THE PROJECT CODE MET RATES REQUIREMENTS OF THE CODE. ARCHITECTURAL REQUIREMENTS FOR THE PROJECT.

1. PRESSURE RATING OF WATER PIPING SYSTEMS.

2. PRESSURE TESTING.

3. BLOWDOWN.

4.OfBirth Hot Water Systems shall be equipped with a 2" or larger, bubble-tight, stop and drain valve at the point where water supplies are connected to the piping system.

5. AIR VENT.

6. INSTRUMENT VANE.

7. PRESSURE REDUCING VALVE (PRV).

8. ISOLATION VALVE.

9. MOTOR VOLTAGES.

10. PRESSURE DROP.

11. LEAVING WATER TEMPERATURE.

12. ENTERING AIR TEMPERATURE.

13. DRAINAGE.

14. MAXIMUM FLOW RATE.

15. MINIMUM FLOW RATE.

16. SUPPLY DIFFUSER.

17. WALL CLEANOUT.

18. GRADE CLEANOUT.

19. GRADE CLEANOUT.

20. FIRE SERVICE CONNECTION.

THE CONTRACTOR UNDERTAKES TO INSTALL MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS TO MEET THE STANDARDS OF THE CODE AND THE PROJECT SPECIFICATIONS.

NOTE:

DATE

MUSGROVE & PARTNERS ARCHITECTS INC.

BOISE, ID 83709

www.musgrovepa.com

208.384.0585

OVER 40 YEARS OF EXCELLENCE

3. CONTROL SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND INSTALLATION INSTRUCTIONS.

4. EQUIPMENT CALLOUT

5. UNITS OF MECHANICAL SYSTEMS AND APPLIANCES.

6. PHASE

7. REVOLUTIONS PER MINUTE

8. KILOWATT HOUR

9. SEASONAL ENERGY EFFICIENCY RATIO

10. PRESSURE DROP

11. ENTERING AIR TEMPERATURE

12. LEAVING WATER TEMPERATURE

13. PRESSURE GAUGE

14. SUPPLY DIFFUSER

15. WALL CLEANOUT

16. GRADE CLEANOUT

17. GRADE CLEANOUT

18. FIRE SERVICE CONNECTION PORT

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11. ENTERING AIR TEMPERATURE
EXISTING MATERIALS LAB EQUIPMENT LIST:

- FLOOR PENETRATIONS
- WALL PENETRATIONS
- CONCRETE PAD
- INSTALL A MINIMUM OF (6) BOLLARDS AROUND STEEL TUBING VENT. CONNECT AND TRANSITION TO EXISTING EXHAUST DUCT.
- INSTALL SUPPLY GRILLE TIGHT TO CEILING. SEAL WALL PENETRATION.
- NEW 30"X22" MOTORIZED LOUVER. COORDINATE INSTALLATION PRIOR TO BID. SEE DETAIL #2 ON SHEET M4.0.
- ROUTE NEW 1-1/4" LOW PRESSURE GAS LINE LOW AND TIGHT TO MAKEUP AIR UNIT (TYP).
- FLOOR MOUNTED HEAT PUMP
- NEW 34" SLOT HOOD TO CAPTURE SOURCE DUST/FUMES.
- NCAT MACHINE (DUCTED WITH BOOSTER FAN TO DUCT)
- WATKINS HEAT ELEMENT
- WATER TESTING TANK
- WATER TANK TESTING TUB
- EMERGENCY SHOWER
- WALL MOUNTED EYE WASH
- CLEANING STATION "SAFETY KLEEN"
- DURASTILL TESTING MACHINE
- AIR COMPRESSOR
- VWR OVEN
- SPLITTER MACHINE
- DURASTILL TESTING MACHINE
- GEN-X HEATER
- INSTALL SUPPLY GRILLE TIGHT TO CEILING. SEAL WALL PENETRATION.
- EXPANSION TANK
- TEMPERING STATION (TYP)
- NOTICE REQUIRED TO TRANSITION AND SUPPORT LINED AND INSULATED DUCTWORK TIGHT TO CEILING. SEE DETAILS #3 & #4 ON SHEET M3.0 FOR STRUCTURAL REQUIREMENTS.
- REPLACE EXISTING METAL EXHAUST DUCT WITH SEAMLESS BRACKET. SECURE TO EXTERIOR WALL.
- ROUTE NEW EXHAUST DUCT THROUGH EXTERIOR WALL. SEAL ROOF PENETRATION.
- REPLACE EXISTING 8"Ø DUCT OUT TO SIDEWALL FAN.
- ROUTE 18"X26" DUCT FROM ROOF ABOVE. SEAL ROOF PENETRATION.
- NEW MAKE-UP AIR UNIT ON GRADE. PROVIDE WITH 4" EXHAUST GRILLE AS REQUIRED.
- REMOVE 5"Ø EXHAUST DUCT BACK TO WALL. PROVIDE NEW 5"Ø EXHAUST DUCT TO EXHAUST GRILLE. MOUNT 7' AFF. SUSPEND IN DUCTWORK.
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- CONCRETE POLISHER - WET TYPE
- PUMP TANK HEAT ELEMENT
- CONNECT BY PIPING - SRT TYPE
- BLOW OUT Hoses
- INSTALL PENETRATION SHIELD
- STEEL TUBING VENT. CONNECT AND TRANSITION TO EXISTING EXHAUST DUCT.
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- REMOVE 5"Ø EXHAUST DUCT BACK TO WALL. PROVIDE NEW 5"Ø EXHAUST DUCT TO EXHAUST GRILLE. MOUNT 7' AFF. SUSPEND IN DUCTWORK.
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- ROUTE NEW EXHAUST DUCT THROUGH EXTERIOR WALL. SEAL ROOF PENETRATION.
- REMOVE 5"Ø EXHAUST DUCT BACK TO WALL. PROVIDE NEW 5"Ø EXHAUST DUCT TO EXHAUST GRILLE. MOUNT 7' AFF. SUSPEND IN DUCTWORK.
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- NEW 30"X22" MOTORIZED LOUVER. COORDINATE INSTALLATION PRIOR TO BID. SEE DETAIL #2 ON SHEET M4.0.
KEYED NOTES:
1. SEE SHEET M1.0 FOR CONTINUATION.
2. ROUTE 24"X20" LINED AND INSULATED SUPPLY DUCT ON EXISTING ROOF. SEE DETAIL #6 ON SHEET M3.1 FOR REQUIREMENTS.
3. PROVIDE SUPPORT FOR ROOF MOUNTED DUCTWORK. SEE DETAIL #2 ON SHEET M3.1.
4. NEW ROOF MOUNTED UTILITY EXHAUST FAN ON ROOF CURB. CONNECT AND TRANSITION TO 14"Ø EXHAUST DUCT. PROVIDE FLEXIBLE DUCT CONNECTION AT EXHAUST FAN. SEE DETAIL #1 & #2 ON SHEET M4.0 FOR ADDITIONAL REQUIREMENTS.
5. ROUTE 14"Ø EXHAUST DUCT TO FLOOR BELOW. SEE SHEET M1.0 FOR CONTINUATION. SEAL NEW ROOF PENETRATION TO MAINTAIN EXISTING ROOF WARRANTY.
6. NEW ROOF MOUNTED EXHAUST FAN. SEE DETAIL #3 ON SHEET M3.1. SEAL AROUND NEW ROOF CURB PENETRATION. SEE SHEET M1.0 FOR CONTINUATION. MAINTAIN 10' MINIMUM FROM ROOF EDGE AND ANY INTAKE AIR DAMPERS.
7. CONTRACTOR TO HIRE STRUCTURAL ENGINEER TO PROVIDE INSPECTION OF THE EXISTING ROOF STRUCTURE TO ENSURE NEW EXHAUST FAN CAN BE ACCOMMODATED. CONTRACTOR SHALL PROVIDE OWNER/ENGINEER WITH ANY CALCULATIONS AND DRAWINGS PRIOR TO INSTALLATION.
8. ROUTE 18"X26" EXHAUST DUCT TO FLOOR BELOW THROUGH EXISTING CEILING JOISTS. SEE SHEET M1.0 FOR CONTINUATION. SEAL NEW ROOF PENETRATION TO MAINTAIN EXISTING ROOF WARRANTY.
NOT TO SCALE

SEISMIC CONNECTIONS TO OPEN WEB STEEL JOISTS

SEISMIC BRACING FOR RECTANGULAR DUCTS

SEISMIC CONNECTIONS TO OPEN WEB STEEL JOISTS

1. BRANCH CONNECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE ABOVE NOTED
   REQUIREMENTS.
2. NO BRANCH CONNECTIONS SHALL BE CONSTRUCTED AT THE POINTS OF INTERSECTION OF THE MAIN AND SUPPORTING TRUSS
   (Framing) OR THE POINTS OF TRANSITION TO THE OPEN WEB STEEL JOISTS.
3. PRE-ENGINEER BRACING SHALL ADJACENT TRANSITION OR OF EACH BAY OF THE DUCT TEMPERATURES THE SPECIFICATIONS
   ADJACENT TRANSITION OR OF EACH BAY OF THE DUCT TEMPERATURES THE SPECIFICATIONS
4. PRE-ENGINEER BRACING SHALL ADJACENT TRANSITION OR OF EACH BAY OF THE DUCT TEMPERATURES THE SPECIFICATIONS
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8. MAXIMUM WEIGHT OF DUCT OR COMBINATION OF DUCTS IS PER LINEAR FOOT. FOR DUCTS HEAVIER THAN THE MAXIMUM
   WEIGHT THEN THE USE OF DUCT TAKE-OFFS IS MANDATORY.
9. SEE CONNECTION TO STRUCTURE DETAIL.
10. CUTOUTS NOT TO BE CONSTRUCTED ON OR IN DUCTS AS PER DUCT TAKE-OFFS.
11. MAXIMUM WEIGHT OF DUCT OR COMBINATION OF DUCTS IS PER LINEAR FOOT. FOR DUCTS HEAVIER THAN THE MAXIMUM
    WEIGHT THEN THE USE OF DUCT TAKE-OFFS IS MANDATORY.
12. SEE CONNECTION TO STRUCTURE DETAIL.

SERIES 21.5-11 RANCHER 21.5-13 RANCHER

1. USE STEEL BRACKET 1-3/8" IDAHO TRANS. DEPT.
2. USE PAINTED CONSTRUCTION.
3. USE STRAIGHT STEEL BRACKET.
4. USE WIRE BRACKET.
5. USE STEEL BRACKET 1-3/8"
6. USE STEEL BRACKET 1-3/8"

NOTES:

1. USE STEEL BRACKET 1-3/8"
2. USE STEEL BRACKET 1-3/8"
3. USE STEEL BRACKET 1-3/8"
4. USE STEEL BRACKET 1-3/8"

CONTRACTOR:

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2. USE STEEL BRACKET 1-3/8"
3. USE STEEL BRACKET 1-3/8"
4. USE STEEL BRACKET 1-3/8"

REVISIONS:

1. USE STEEL BRACKET 1-3/8"
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DATE:

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