

__26" Dia. SA

-18x42 RA (6)

—CONNECT OUTSIDE AIR DUCT TO TOP OF MIXING BOX WITH

MOTORIZED DAMPER AND

—CONNECT RETURN DUCT TO SIDE OF MIXING BOX WITH

MOTORIZED DAMPER AND

FLEXIBLE CONNECTION.

MECHANICAL SECTION - A

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

FLEXIBLE CONNECTION.

3 36x32 OA

<u>MECH</u> 210

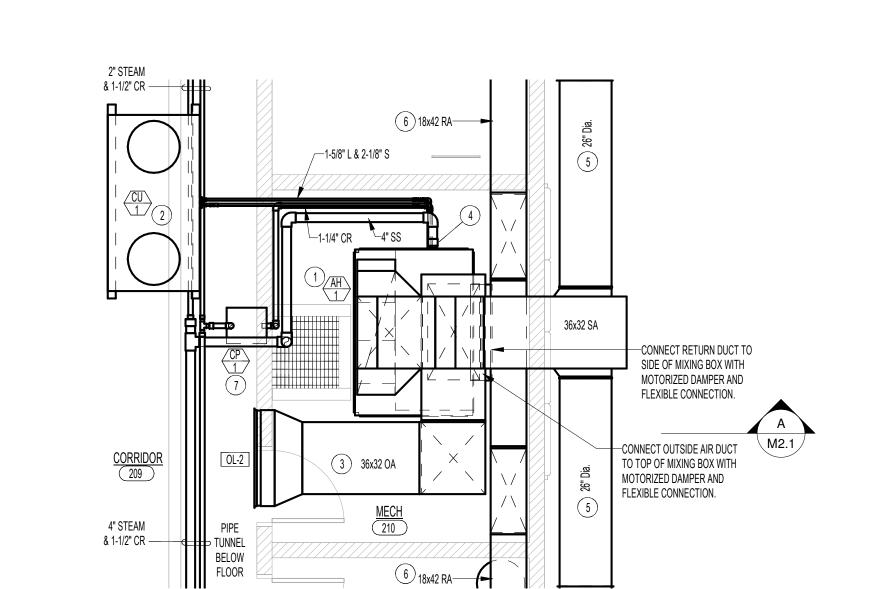
4" SS----

1-1/2" CR-\

STEAM AND CONDENSATE

TUNNEL. SEE SHEET M1.2.—

RETURN PIPING IN



LARGE SCALE MECHANICAL ROOM SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- 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.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO INSURE PROPER CODE CLEARANCES FOR ELECTRICAL AND MECHANICAL ACCESS WHEN

PLAN NOTES:

PROVIDE AND INSTALL NEW VERTICAL AIR HANDLER AS SPECIFIED COMPLETE WITH D

MOUNT NEW CONDENSING UNIT ON ROOF FOR GYM AIR HANDLER. RUN REFRIGERANT LINES THRU WALL AND DROP DOWN IN MECHANICAL ROOM TO CONNECT TO AIR HANDLER DX COIL. MOUNT CONDENSING UNIT ON PYRAMID TYPE SUPPORTS. REFER

3) INSTALL OUTSIDE LOUVER IN WALL ABOVE LOWER ROOF. CONNECT 63x32 OUTSIDE AIR

DROP REFRIGERANT LINES DOWN AND CONNECT TO DX COIL IN AIR HANDLER. REFER

TO DETAIL N/M3.1 FOR TYPICAL PIPING CONNECTIONS AND SUPPORTS. CONNECT 4" STEAM SUPPLY LINE AND 1-1/2" CONDENSATE RETURN LINES TO STEAM HEATING COIL IN UNIT. REFER TO DETAIL L/M3.1 FOR TYPICAL STEAM COIL PIPING CONNECTIONS.

RUN SUPPLY DUCT IN GYMNAISIUM THRU JOIST SPACE. FIELD COORDINATE ACTUAL DUCT LOCATIONS WITH ROOF JOISTS PROVIDED. MOUNT SR-1 REGISTERS WITH EXTRACTION DAMPER IN DUCTWORK AT 45 DEGREES DOWN FROM HORIZONTAL. REFER

RISE RETURN DUCT UP HIGH TO CROSS OVER STORAGE AND TOILET ROOMS. DROP

DUCT DOWN TO FLOOR INSIDE MECHANICAL ROOM AND CONNECT TO SIDE OF AIR HANDLER MIXING BOX. COORDINATE ACTUAL DUCT LOCATIONS WITH OTHER

PROVIDE AND INSTALL CONDENSATE RETURN PUMP AND RECEIVING TANK IN PIPE

TUNNEL BELOW FLOOR. CONNECT TO CONDENSATE RETURN PIPING. RUN DISCHARGE LINE AS HIGH AS POSSIBLE THRU TUNNEL AND CONNECT TO EXISTING 1-1/4" OR LARGER

CONDENSATE RETURN PIPING. REFER TO SHEET M1.2 FOR CONTINUATION OF PIPING.

CORRESPONDING EQUIPMENT AND TO EXISTING BUILDING CONTROLS. CONTRACTOR

MOUNT RG-1 AT 6" ABOVE FLOOR. RUN SLEEVE THRU WALL AND CONNECT TO VERTICAL AIR HANDLER. PROVIDE DUCT TRANSITIONS AND/OR OFFSETS AS REQUIRED TO MAKE

0) RUN ROOF DRAIN LINES THRU JOIST SPACE AND KEEP AS HIGH AS POSSIBLE. ROOF

DRAIN PIPING TO BE GRADED DOWNWARD IN DIRECTION OF FLOW AT 1/4" PER FOOT.

MOUNT NEW THERMOSTAT AND/OR SENSOR ON WALL AND CONNECT TO NEW

TO DETAIL N/M3.1 FOR TYPICAL INSTALLATION AND PIPING CONNECTIONS.

COOLING COIL AND STEAM HEATING COIL. PROVIDE SPRING TYPE VIRBRATION ISOLATORS AT EACH CORNER ON UNIT. CONNECT RETURN DUCT, OUTSIDE AIR DUCT, AND SUPPLY AIR DUCT TO AIR HANDLER WITH FLEXIBLE CONNECTIONS. PROVIDE ALL

DUCT TRANSITIONS REQUIRED TO CONNECT DUCTWORK.

DUCT TO LOUVER AND RUN TO AIR HANDLER MIXING BOX.

TO DETAIL F/M3.1 FOR TYPICAL INSTALLATION.

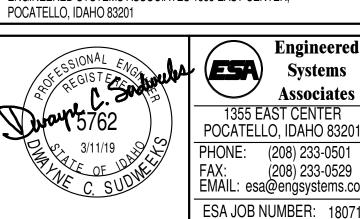
EQUIPMENT, PIPING, AND BUILDING STRUCTURE.

TO FIELD VERIFY EXISTING CONTROL SYSTEM.

CONNECTION TO AIR HANDLER.

- INSTALLING ANY EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR. IT IS CRITICAL THAT THIS CONTRACTOR COORDINATE EQUIPMENT LOCATIONS WITH PIPING, DUCTWORK, ELECTRICAL CONDUIT AND BUILDING STRUCTURE TO INSURE CODE COMPLIANCE.
- CEILING DIFFUSERS ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO LIGHTING PLANS AND REFLECTED CEILING PLAN FOR EXACT LOCATIONS.
- DUCT DIMENSIONS CALLED OUT ON DRAWINGS ARE INSIDE FREE AREA DIMENSIONS. ACOUSTICAL DUCT LINER ARE TO BE ADDED TO OVERALL
- ALL DUCTWORK AND PIPING WHICH PASSES THRU FIRE RATED WALLS TO BE FIRE STOPPED WITH APPROVED FOAM OR SEALANT. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURES.

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



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DRAWING NO.:

PROJECT NO.

DRAWN BY: M Jensen

CHECKED BY:

D Sudweeks

FEBRUARY 2019

FERSON JOINT 8 623 N 3500 E, I **REVISIONS**

ADDITION & REMODEL FOR:

MIDWAY ELEMENTARY

FERSON JOINT SCHOOL DISTRICT NO. 3
623 N 3500 E, MENAN, IDAHO 83434 DISTRICT NO. IDAHO 83434

DURANCE TON

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