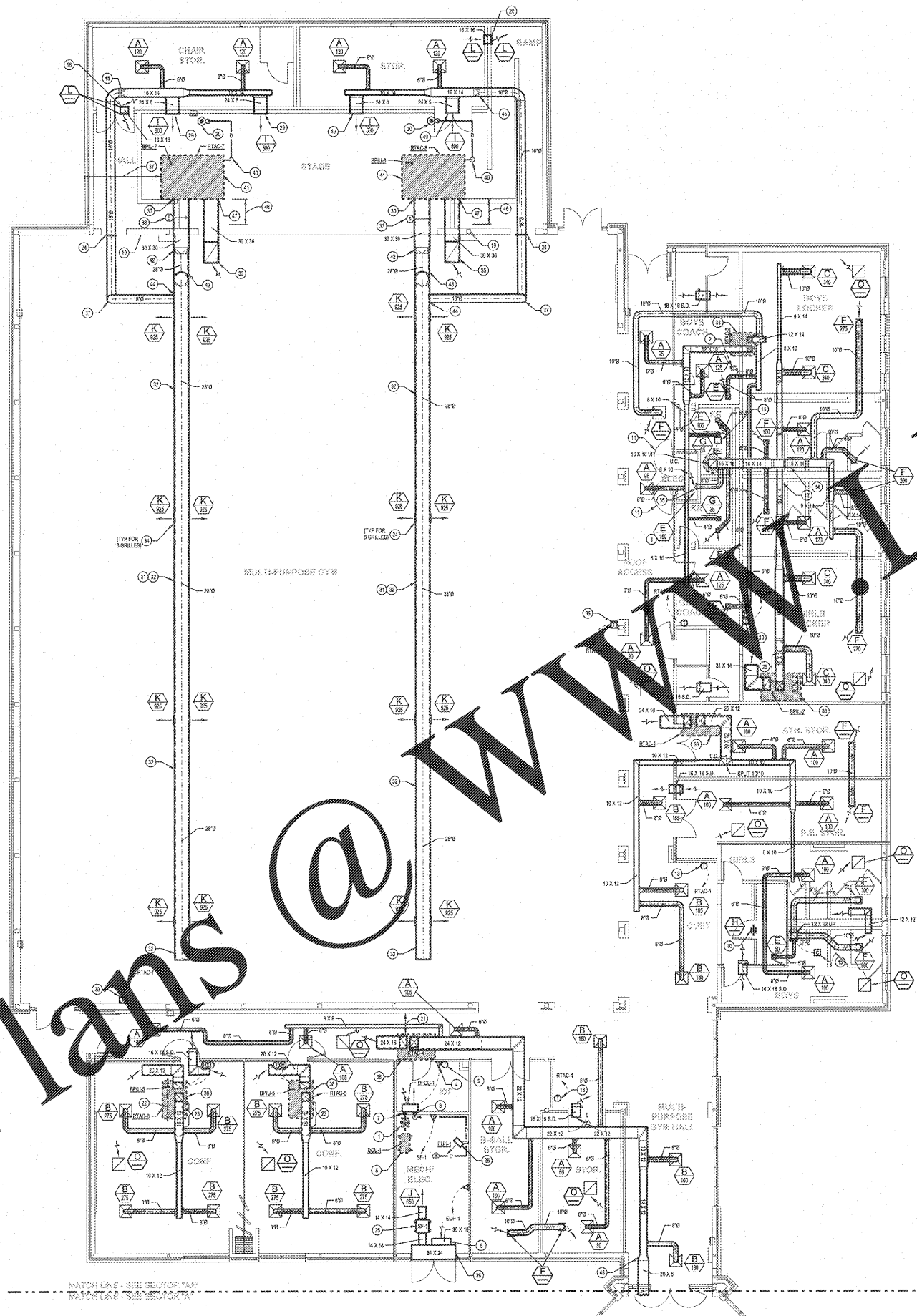


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NOTES: (THIS SHEET ONLY)

- 1) PIPE BOX ASSEMBLY FOR REFRIGERANT PIPE, POWER CIRCUIT AND CONTROL CIRCUIT FOR DCU. SEE PIPE BOX HOOD ASSEMBLY DETAIL. COORDINATE EXACT PIPE BOX LOCATION WITH DCU TO MINIMIZE REFRIGERANT PIPE ABOVE ROOF AND NOT TO INTERFERE WITH DCU.
- 2) PIPE BOX ASSEMBLY FOR POWER CIRCUIT AND CONTROL CIRCUIT FOR RTAC. SEE PIPE BOX HOOD ASSEMBLY DETAIL. COORDINATE EXACT PIPE BOX LOCATION WITH RTAC TO NOT TO INTERFERE WITH RTAC MAINTENANCE CLEARANCES.
- 3) TRANSITION FROM ROUND DUCT TO SQUARE GRILLE NECK SIZE AT WALL.
- 4) HARD WIRED LOW VOLTAGE THERMOSTAT CONTROLLER FOR DCU BY OECU MANUFACTURER. MOUNTED AT 4'-0" A.F.F.
- 5) SEE DUCTLESS HPCU SUPPORT RAIL DETAIL.
- 6) 36" X 18" DUCT CONNECTS TO FLENUM BEHIND LOUVER FOR RELIEF AIR OPENING.
- 7) PROVIDE PIPE SLEEVE FOR REFRIGERANT PIPING THRU WALL. REFRIGERANT PIPE RISES ALONG WALL INSIDE MECHANICAL ROOM.
- 8) 1" COPPER INSULATED CONDENSATE DRAIN PIPING CONNECTS TO RFDU DRAIN CONNECTION THEN PENETRATES WALL CONCEALED BEHIND UNIT. DROPS TO 4" ABOVE FLOOR, AND IS ROUTED ALONG MANSARD WALL FOR DISCHARGE INTO FLOOR DRAIN. INSULATE BEHIND LOUVER.
- 9) DCU SPACE SENSOR FOR MONITORING INPUT AND ALARM FOR HIGH SPACE TEMPERATURE.
- 10) DOOR GRILLE IS PERMITTED IN SMOKE PARTITION SERVING JANITORS CLOSET PER EXCEPTION TO PARAGRAPH 14.3.2.1(3) IN 2003 EDITION OF NFPA-701.
- 11) UNDERCUT DOOR IS PERMITTED IN SMOKE PARTITION PER NFPA 801 STANDARD FOR FIRE DOORS AND FIRE WINDOWS. AND PARAGRAPH 14.3.2.2(1) IN 2003 EDITION OF NFPA-701.
- 12) GENERAL PROVIDE SHEET METAL 18 DEGREE ELBOW AT ALL CEILING GRILLES THAT ARE CONNECTED TO FLEX DUCT AS SHOWN IN RELEVANT DUCT CONNECTION DETAIL.
- 13) MOUNT TEMPERATURE SENSOR AT 7'-0" A.F.F.
- 14) DUCT RISES UP TO CROSS OTHER DUCT.
- 15) MOUNT LINE VOLTAGE CONTACTOR FOR FAN ABOVE CEILING ATTACHED TO BOTTOM OF BAR JOIST. SEE ACCESSIBLE LINE VOLTAGE CONTACTOR DETAIL.
- 16) OMTED.
- 17) GENERAL: COORDINATE ALL DUCT PENETRATIONS THRU PLUMBING CHASE WITH OECU TO AVOID PENETRATING EXISTING STACKS.
- 18) BOTTOM ELEVATION OF GRILLE APPROXIMATELY 10'-0" A.F.F. OF CHAIR STORAGE ROOM.
- 19) STRUCTURAL COLUMN. SEE STRUCTURAL DRAWINGS FOR EXACT LOCATION. AVOID WITH DUCTWORK.
- 20) ROOF DRAIN. SEE MECHANICAL DRAWINGS FOR LOCATION.
- 21) MAINTAIN MINIMUM 4" FROM EDGE OF RTAC TO HIGH WALL OF GYM.
- 22) OUTLINE OF BAR JOISTS. SEE STRUCTURAL DRAWINGS FOR EXACT LOCATION. COORDINATE SUPPLY & RETURN DUCT DROP WITH STRUCTURE. MAINTAIN MINIMUM 4" FROM EDGE OF RTAC TO HIGH WALL OF GYM.
- 23) PROVIDE 4 FEET MINIMUM CLEARANCE TO BEHIND UNIT. PROVIDE SLOPE FOR AIRFLOW TO STABILIZE AND REDUCE NOISE INTO ROOM FROM UNIT.
- 24) IF DUCT PENETRATES WALL DUCT PENETRATES WALL AND IS COVERED WITH BOTTOM ELEVATION AT APPROXIMATELY 10'-0" A.F.F. PROVIDE 6" WIDE, 18 GAUGE GALV. SHEET METAL 18 DEGREE ELBOW AT ALL CEILING GRILLES THAT ARE CONNECTED TO FLEX DUCT AS SHOWN IN RELEVANT DUCT CONNECTION DETAIL.
- 25) ADJUST ANGLE OF DUCT UNIT HEAT EXCHANGER HEATED AIR TOWARDS SPRINKLER AND WATER PIPE FOR FREEZE PROTECTION.
- 26) MOUNT S.E. OF SUB UNIT AT MINIMUM 6" A.F.F. SEE CENTRIFUGAL FAN DETAIL.
- 27) MAINTAIN MINIMUM 4" FROM EDGE OF ROOF TO EDGE OF RTAC UNIT.
- 28) ELEVATION OF SIDEWALL GRILLE APPROXIMATELY 10'-0" A.F.F. OF STORAGE ROOM. CONTRACTOR SHALL ADJUST FRONT AND REAR BLADE SETTINGS AND OPPOSED BLADE DAMPER TO PROVIDE EVEN ROOM COVERAGE AND TO PREVENT DRAFTS.
- 29) 36" X 18" SUPPLY DUCT SHALL CROSS APPROXIMATELY 2" X 4" RTAC CONNECTION. THEN TRANSITIONS TO 36" X 36" DUCT PENETRATES HIGH WALL OF GYM AT 10'-0". INTERNAL DUCT SHALL BE INTERNALLY LINED WITH 1" ELASTOMERIC LINER. FIBROGLASS INTERNAL DUCT LINER IS NOT ALLOWED ON INTERIOR OF EXTERIOR DUCT. SEE RTAC-1 & EXTERIOR DUCT DETAIL.
- 30) BOTTOM ELEVATION OF 20" SPIRAL DUCT SHALL BE APPROXIMATELY 27'-0" A.F.F.
- 31) SEE EXPOSED ROUND DUCT SUPPORT DETAIL FOR SUPPORT OF SPIRAL DUCT.
- 32) DUCT MOUNTED SMOKE DETECTOR PROVIDED AND WARED BY ELECTRICAL, BUT INSTALLED BY MECHANICAL ON EXTERIOR DUCT IN NEMA 4X ENCLOSURE.
- 33) SEE DRAIN LOUVER INSTALLATION DETAIL. (TYPICAL ALL GYM SPIN GRILLES).
- 34) 36" X 18" LINED 1" LINER RETURN DUCT ELBOWS SO TOP ELEVATION IS APPROXIMATELY 27'-0" A.F.F. PROVIDE PAINTED STANDARD EXPANDED METAL SCREEN TO COVER INLET OF 36" X 18" RETURN DUCT. PROVIDE PAINTED 2" X 1/2" FLANGE SHEET METAL FRAMES FASTENED TO DUCT AND TO SCREEN. SCREEN SHALL TURN OVER DUCT 1" AROUND FULL PERIMETER.
- 35) PROVIDE 3/4" X 1/2" FLENUM BEHIND LOUVER WITH CENTER DIVIDER TO ISOLATE SUPPLY AIR FROM RELIEF AIR.
- 36) DUCT ELBOWS DOWN AS SHOWN, SO THAT DUCT CAN PASS UNDER BEAM ALONG STAGE OPENING WALL. APPROXIMATE BOTTOM ELEVATION OF 18" DUCT IS 19'-0" A.F.F.
- 37) ROUTE 1" SLOPED PVC CONDENSATE DRAIN PIPING FROM RTAC TO ROOF DRAIN. SEE PLUMBING DRAWINGS FOR DRAIN LOCATION. SUPPORT AT TOP CONDENSATE SUPPORTS AS SHOWN IN CONDENSATE PIPE SUPPORT DETAIL. SEE CONDENSATE DRAIN TRAP DETAIL.
- 38) MOUNT TEMPERATURE SENSOR AT 7'-0" A.F.F. BEHIND LOCKING-METAL COVER.
- 39) ROUTE 1" PVC SLOPED TRAPPED CONDENSATE DRAIN PIPING FROM RTAC-4 & 8 TO ROOF DRAIN. IF CONDENSATE CONNECTION IS BETWEEN THE SUPPLY AND RETURN CONNECTION, CONTRACTOR SHALL INSTALL TRAP ABOVE THAT IS ACCESSIBLE ON THE OTHER SIDE OF RETURN DUCT, NOT BETWEEN DUCTS. SEE CONDENSATE DRAIN TRAP DETAIL AND CONDENSATE PIPE SUPPORT ON ROOF DETAIL.
- 40) RTAC SHALL BE MOUNTED AT TOP CUSTOM SOUND ATTRACTING CURBS. SEE ACoustICAL ROOF CURB DETAIL.
- 41) TRANSITION FROM 18" X 36" TO 20" DOUBLE WALL SPIRAL. ALL SPIRAL DUCT SHALL BE GALV-GRIP TYPE AND PAINTED WITH 2 COATS OF PAINT AS SPECIFIED UNDER MECHANICAL.
- 42) PROVIDE DOUBLE 45 DEGREE ELBOWS TO ALLOW 45 DEGREE WALL SPIRAL TO RISE FROM ELEVATION AT WALL PENETRATION TO ALLOW BOTTOM ELEVATION OF DUCT TO BE AT APPROXIMATELY 27'-0" A.F.F.
- 43) 18" X 36" DOUBLE WALL SPIRAL DUCT CONNECTS TO 20" WITH 90 DEGREE WALL STRAIGHT SADDLE TAP.
- 44) 18" X 36" DOUBLE WALL SPIRAL TRANSITIONS TO 18" X 14" RECTANGULAR THIS APPROXIMATE LOCATION.
- 45) MAINTAIN MINIMUM 4" FROM EDGE OF RTAC TO HIGH WALL OF GYM.
- 46) 36" X 18" RETURN DUCT PENETRATES WALL APPROXIMATELY 2" X 4" RTAC CONNECTION. THEN TRANSITIONS TO 36" X 36" DUCT PENETRATES HIGH WALL OF GYM AT 10'-0". RECTANGULAR DUCT SHALL BE INTERNALLY LINED WITH 1" ELASTOMERIC LINER. FIBROGLASS INTERNAL DUCT LINER IS NOT ALLOWED ON INTERIOR OF EXTERIOR DUCT. ALL RETURN DUCT SHALL BE GALV-GRIP TYPE AND PAINTED WITH TWO COATS OF PAINT. MUST VERIFY COLOR WITH ARCHITECT. SEE RTAC-1 & EXTERIOR DUCT DETAIL.
- 47) TRANSITION FROM 14" X 12" TO APPROXIMATELY 20" X 8" TO ALLOW SUPPLY DUCT TO PASS OVER TOP OF PRECAST CONCRETE TEE AND ABOVE CEILING OF HALF OCTAGON LOWER GYM LOBBY. CONTRACTOR IS WARNED THAT SPACE IS SEVERELY LIMITED, AND ONLY APPROXIMATELY 1" CLEAR EXIST. FULLY VERIFY EXIST CLEAR DIMENSIONS AND ADJUST DUCT DIMENSIONS AS REQUIRED TO PASS INTO LOBBY. CONTRACTOR SHALL COORDINATE WITH SPRINKLER CONTRACTOR AND ELECTRICAL CONTRACTOR TO ENSURE CONDUIT AND SPRINKLER PIPE ARE NOT INSTALLED AT AN ELEVATION THAT BLOCKS THE DUCT FROM ENTERING OR BEING ROUTED ABOVE THE CEILING OF THE LOBBY.
- 48) MOUNT BOTTOM ELEVATION OF SIDEWALL GRILLE APPROXIMATELY 13'-0" ABOVE STAGE FLOOR. CONTRACTOR SHALL ADJUST FRONT AND REAR BLADE SETTINGS AND OPPOSED BLADE DAMPER TO PROVIDE EVEN ROOM COVERAGE AND TO PREVENT DRAFTS.

REVISIONS/ISSUANCES		
NO.	DATE	DESCRIPTION

KEYPLAN

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GEORGIA
REGISTERED PROFESSIONAL ENGINEER
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Date: 08/28/01

STATE OF GEORGIA
REGISTERED ARCHITECT
No. 1488
Date: 08/28/01

Manley Spangler Smith Architects
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PROJECT:
RENOVATIONS,
MODIFICATIONS, &
ADDITIONS TO HENRY
COUNTY SCHOOLS -
GROUP 18
WOODLAND HIGH SCHOOL
(ITEM C)

CLIENT:
HENRY COUNTY
BOARD OF EDUCATION

SHEET TITLE:
MECHANICAL FLOOR
PLAN - SECTOR "AA"

DATE: 06.07.18
SCALE: 3/8"=1'-0"
DRAWN BY: WSD
CHECKED BY: JSM

SHEET NO.: M101

MECHANICAL FLOOR PLAN - SECTOR "AA"
SCALE: 1/8"=1'-0"