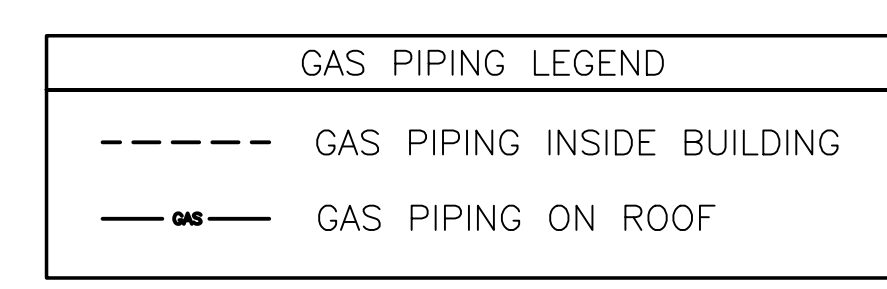


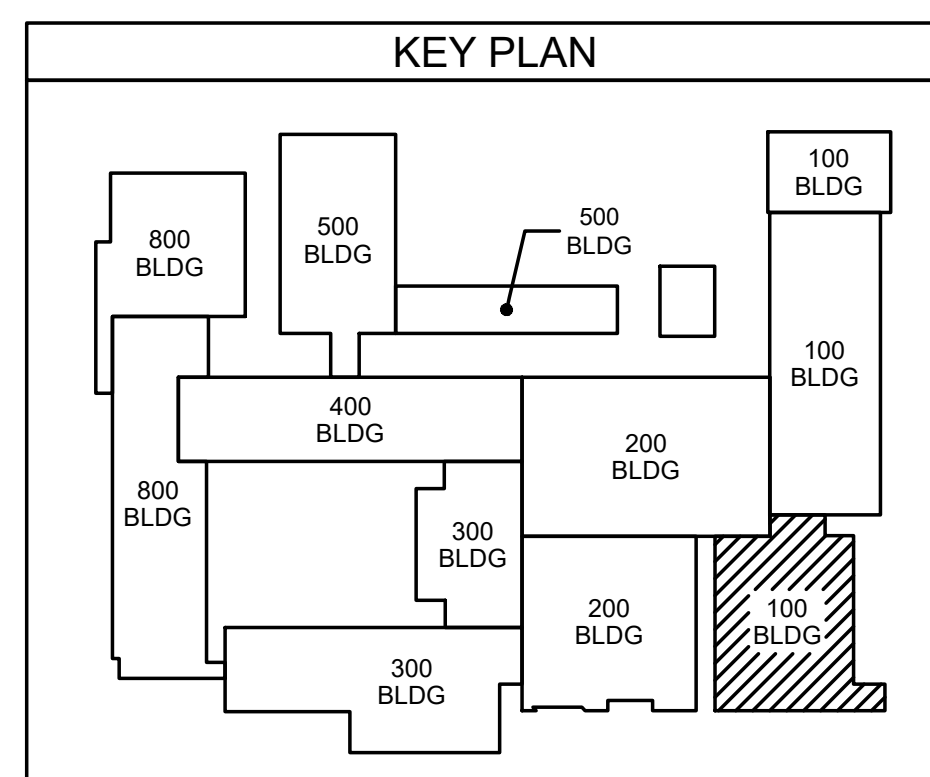
GAS SIZING CALCULATIONS

EQUIPMENT LIST	MBH	QUANTITY	TOTAL MBH
EXIST. BOILERS	5,000	3	15,000
EXIST. KITCHEN EQUIP.	1,000	1	1,000
EXIST. LAB BURNERS	10	40	400
RTU-1	600	1	600
RTU-2	600	1	600
RTU-3	100	1	100
RTU-4	150	1	150
RTU-5	150	1	150
VSU-1	300	1	300
VSU-2	350	1	350
VSU-3	150	1	150
VSU-4	150	1	150
VSU-5	200	1	200
VSU-6	150	1	150
VSU-7	250	1	250
VSU-8	250	1	250
VSU-12	500	1	500
VSU-13	150	1	150
KMAU-1	214	1	214
LAB BURNERS	10	44	440
FOOD LAB EQUIP	665	1	665
GAS DRYER	175	2	350
GWH	199	1	199
TOTAL CONNECTED =			22,318
LENGTH OF GAS LINE = 1,000 FT.			
TYPE OF GAS SERVICE = NATURAL GAS			
GAS PRESSURE = 5 PSI			
SIZE OF GAS SERVICE REQUIRED = 4"			

NOTE: ENGINEER SHALL BE NOTIFIED PRIOR TO INSTALLATION OF GAS PIPE IF ANY ONE OF THE ABOVE CALCULATIONS DIFFER FROM THE ACTUAL INSTALLATION REQUIREMENTS. ENGINEER SHALL HAVE OPPORTUNITY TO REVIEW ACTUAL INSTALLATION CONDITIONS AND RE-SIZE GAS SERVICE IF REQUIRED.



- MECHANICAL ROOF PLAN NOTES:**
- CONTRACTOR SHALL INSTALL NEW ROOFTOP DOAS UNIT IN APPROXIMATE LOCATION INDICATED. FIELD COORDINATE EXACT LOCATION WITH BUILDING STRUCTURE. INSTALL NEW MANUFACTURER'S ROOF CURB.
 - CONTRACTOR SHALL MODIFY EXISTING STEEL UNIT SUPPORT STRUCTURE AS NECESSARY TO ACCOMMODATE THE NEW DOAS UNIT FOOTPRINT.
 - CONTRACTOR SHALL CONNECT NEW GAS PIPING TO NEW ROOFTOP UNIT. PROVIDE AND INSTALL 2ND STAGE REGULATOR AS REQUIRED. SEE "GAS PIPING CONNECTION DETAIL" ON M202.
 - CONTRACTOR SHALL INSTALL ROOF CURB AND NEW MAKE UP AIR UNIT FOR KITCHEN HOOD. VERIFY EXACT LOCATION WITH KITCHEN HOOD EXHAUST FANS. MAINTAIN 10 FEET MINIMUM CLEARANCE BETWEEN MAKE UP AIR UNIT INTAKE AND EXHAUST FANS OUTLET. CONTRACTOR SHALL CONNECT GAS PIPING TO NEW MAKE UP AIR UNIT AS INDICATED. SEE "GAS PIPING CONNECTION DETAIL" ON M202.
 - CONTRACTOR SHALL INSTALL ROOF CURB AND NEW KITCHEN HOOD EXHAUST FAN. VERIFY EXACT LOCATION WITH NEW KITCHEN HOOD.
 - CONTRACTOR TO INSTALL NEW DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN. SEE "EXHAUST FAN SCHEDULE".
 - CONTRACTOR SHALL REMOVE EXISTING ROOF CURB AND MAKE ANY MODIFICATIONS NECESSARY TO ROOF TO ACCEPT NEW ROOF CURB. INSTALL NEW MANUFACTURER'S ROOF CURB FOR NEW DOAS UNIT AS INDICATED.

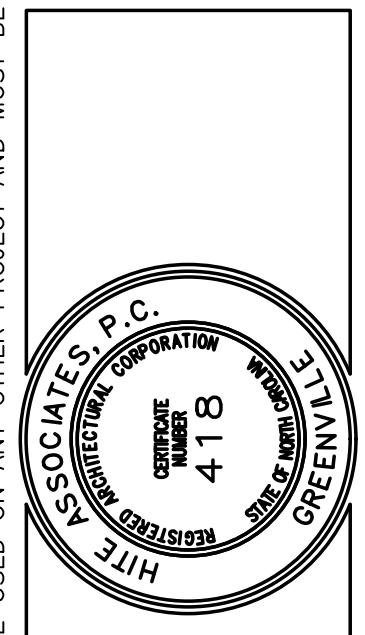


102.1 CAFETERIA AND KITCHEN GAS & ROOF PLAN

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

No.	Date	Revision
1	12/01/23	ADDENDUM # 6
2	11/27/23	ADDENDUM # 4
3	11/27/23	ADDENDUM # 3
4	11/27/23	ADDENDUM # 2
5	11/27/23	ADDENDUM # 1

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New Additions & Renovations to
West Carteret High School
 4700 Country Club Road, Morehead City NC 28577
 Carteret County Schools / North Carolina

Project No.	22112
Date	03 Oct 2023
Drawing No.	M 102

ENGINEERING
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