

PBK, P.O. BOX 880, GRIFFIN, GA 30223

ADDENDUM NUMBER ONE: DATED: July 2, 2026

To: All prime contract bidders of record.

This addendum forms a part of the Contract Documents and modifies the original Specifications and Drawings dated May 29, 2026, as noted below. **Acknowledge receipt of this Addendum in the space provided on the Bid Form;** failure to do so may subject bidder to disqualification.

BID DATE: July 7, 2026

SPECIFICATIONS

1. Section 004322 – UNIT PRICES FORM

- A. Delete this section in its entirety and replace with section of same name included within this addendum, dated 2026-07-02

2. Section 012100 – ALLOWANCES

- A. Paragraph 3.3-A Quantity Allowances – add the following:

3. Include in the bid price an amount to provide and install twenty (20) new needlepoint bipolar ionization units. This allowance shall be used in the event that any of the existing needlepoint bi-polar ionization units that are indicated to be reused are determined to be inoperable, non-functioning, or otherwise unable to be reused.

3. Section 012200 – UNIT PRICES

- A. Paragraph 3.1 SCHEDULE OF UNIT PRICES – Delete the paragraph in its entirety and replace with:
- A. Unit Price 1: Provide amount to remove and install 1 square feet of acoustical panel ceiling tiles.
- B. Unit Price 2: Provide amount to remove and install 1 linear foot of acoustical panel ceiling grid.
- C. Unit Price 3: Provide and install 1 new bi-polar ionization unit in lieu of reinstalling existing bi-polar ionization unit.

DRAWINGS

Austin Road Elementary School

1. SHEET MD101 – MECHANICAL DEMOLITION FLOOR PLAN – SECTOR A

- A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.

2. SHEET MD102 - MECHANICAL DEMOLITION FLOOR PLAN – SECTOR B

- A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
- 3. SHEET MD103 – MECHANICAL DEMOLITION FLOOR PLAN – SECTOR C
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
- 4. SHEET M101 – MECHANICAL NEW WORK FLOOR PLAN – SECTOR A
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
- 5. SHEET M102 – MECHANICAL NEW WORK FLOOR PLAN – SECTOR B
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
- 6. SHEET M103 – MECHANICAL NEW WORK FLOOR PLAN – SECTOR C
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
- 7. SHEET M301 - MECHANICAL ROOM NEW WORK FLOOR PLAN AND PIPING SCHEMATIC
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
- 8. SHEET M501 – MECHANICAL DETAILS
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
- 9. SHEET M502 – MECHANICAL DETAILS
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
- 10. SHEET M503 – MECHANICAL DETAILS
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
- 11. SHEET M602 – MECHANICAL SCHEDULES, LEGEND AND GENERAL NOTES
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
- 12. SHEET E801 – ELECTRICAL SCHEDULES AND LEGEND
 - A. Added ELECTRICAL DISCONNED SUPPORT RAIL detail to sheet.

Cotton Indian Elementary School

1. SHEET MD101 – MECHANICAL DEMOLITION FLOOR PLAN – SECTOR A
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
2. SHEET MD102 - MECHANICAL DEMOLITION FLOOR PLAN – SECTOR B
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
3. SHEET MD103 – MECHANICAL DEMOLITION FLOOR PLAN – SECTOR C
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
4. SHEET M101 – MECHANICAL NEW WORK FLOOR PLAN – SECTOR A
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
5. SHEET M102 – MECHANICAL NEW WORK FLOOR PLAN – SECTOR B
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
6. SHEET M103 – MECHANICAL NEW WORK FLOOR PLAN – SECTOR C
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name
7. SHEET M301 - MECHANICAL ROOM NEW WORK FLOOR PLAN AND PIPING SCHEMATIC
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
8. SHEET M501 – MECHANICAL DETAILS
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
9. SHEET M502 – MECHANICAL DETAILS
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
10. SHEET M503 – MECHANICAL DETAILS
 - A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.
11. SHEET M602 – MECHANICAL SCHEDULES, LEGEND AND GENERAL NOTES

- A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.

12. SHEET E801 – ELECTRICAL SCHEDULES AND LEGEND

- A. Added ELECTRICAL DISCONNECT SUPPORT RAIL detail to sheet.
- B. Revised notes on the PUMP POWER SCHEDULE.

Smith Barnes Elementary School

1. SHEET MD101 – MECHANICAL DEMOLITION FLOOR PLAN – SECTOR A

- A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.

2. SHEET M103 - MECHANICAL NEW WORK FLOOR PLAN – SECTOR C

- A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.

3. SHEET M501 – MECHANICAL DETAILS

- A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.

4. SHEET M502 – MECHANICAL DETAILS

- A. Replace this sheet in its entirety and replace with the revised sheet of the same name and number.

5. SHEET E801 – ELECTRICAL SCHEDULES AND LEGEND

- A. Added ELECTRICAL DISCONNECT SUPPORT RAIL detail to sheet.

SECTION 004322 - UNIT PRICES FORM

1.1 BID INFORMATION

- A. Bidder: _____.
- B. Project Name: HCS Group 6-1 - HVAC Replacement
- C. Project Location: 50 Austin Road Stockbridge, GA 30281, 1201 Old Conyers Road Stockbridge, GA 30281, 147 Tye Street Stockbridge, GA 30281, McDonough, Georgia 30281
- D. Owner: Henry County Board of Education
- E. Architect: PBK Architects Georgia, P.C.
- F. Architect Project Number: 260013

1.2 BID FORM SUPPLEMENT

- A. This form is required to be attached to the Bid Form.
- B. The undersigned Bidder proposes the amounts below be added to or deducted from the Contract Sum on performance and measurement of the individual items of Work as required by Section 012200 "Unit Prices."

1.3 UNIT PRICES

- A. Unit Price 1: Provide amount to remove and install 1 square feet of acoustical panel ceiling tiles.
 - 1. _____ Dollars (\$) per SF.
- B. Unit Price 2: Provide amount to remove and install 1 linear foot of acoustical panel ceiling grid.
 - 1. _____ Dollars (\$) per LF.
- C. Unit Price 3: Provide and install 1 new bi-polar ionization unit in lieu of reinstalling existing bi-polar ionization unit.
 - 1. _____ Dollars (\$) per unit.

1.4 SUBMISSION OF BID SUPPLEMENT

- A. Respectfully submitted this _____ day of _____, 20____.
- B. Submitted By: _____ (Insert name of bidding firm or corporation).
- C. Authorized Signature: _____ (Handwritten signature).
- D. Signed By: _____ (Type or print name).
- E. Title: _____ (Owner/Partner/President/Vice President).

END OF SECTION 004322

KITCHEN EXHAUST FAN POWER SCHEDULE

MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
KEF-1	480V/3PH	PROVIDED BY MECHANICAL	HA1-EXISTING	1,2,3
NOTES:				
1. ROUTE POWER CIRCUIT VIA KITCHEN HOOD SWITCH LOCATED IN KITCHEN. COORDINATE LOCATION WITH EXISTING TO REMAIN EQUIPMENT. ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL STARTER AS REQUIRED PER MANUFACTURER INSTALLATION INSTRUCTIONS.				
2. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				
3. CONNECT TO EXISTING CIRCUIT. EXTEND CONDUCTORS AND CONDUIT.				

KITCHEN MAKE-UP AIR UNIT POWER SCHEDULE

MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
KMAU-1	480V/3PH	VFD	HA1-EXISTING	1,2,3
NOTES:				
1. ROUTE POWER CIRCUIT VIA KITCHEN HOOD SWITCH LOCATED IN KITCHEN. COORDINATE LOCATION WITH EXISTING TO REMAIN EQUIPMENT. ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL STARTER AS REQUIRED PER MANUFACTURER INSTALLATION INSTRUCTIONS.				
2. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				
3. CONNECT TO EXISTING CIRCUIT. EXTEND CONDUCTORS AND CONDUIT.				

PASS THRU AIR CONDITIONER POWER SCHEDULE

MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
PTHP-1	208V/1PH	PLUG	LB1-EXISTING	1,2,3
NOTES:				
1. PROVIDE NEW L6-15R FOR NEW PTHP. EXTEND EXISTING CONDUCTORS AS REQUIRED AND MAKE ALL CONNECTIONS.				
2. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				
3. CONNECT TO EXISTING CIRCUIT. EXTEND CONDUCTORS AND CONDUIT.				

ROOF TOP AIR CONDITION POWER SCHEDULE

MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
RTAC-1	480V/3PH	INTEGRAL TO UNIT	HA1-EXISTING	1,2,3,4,5,6,9
RTAC-3	480V/3PH	INTEGRAL TO UNIT	HA3-EXISTING	1,2,3,7,9
RTAC-4	480V/3PH	INTEGRAL TO UNIT	HA1-EXISTING	1,2,3,4,5,8,9
RTAC-5	480V/3PH	INTEGRAL TO UNIT	HA2-EXISTING	1,2,3,4,5,8,9
NOTES:				
1. CONTRACTOR SHALL ROUTE ALL POWER CONCEALED WITH MECHANICAL ROOF CURB. CONTRACTOR SHALL ROUTE UTILITIES IN FACTORY DESIGNATED LOCATIONS. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR CUT OPENINGS IN THE BOTTOM OF THE UNIT. FIELD CUTTING OF UNIT SHALL RESULT IN REJECTION OF UNIT AND NEW UNIT SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER.				
2. PROVIDE SINGLE POINT POWER CONNECTION TO UNIT'S INTEGRAL DISCONNECT. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIED.				
3. UNIT PROVIDED WITH 120V CONVENIENCE POWER OUTLET FACTORY WIRED.				
4. PROVIDE DUCK MOUNTED SMOKE DETECTOR FOR UNIT AS SPECIFIED IN DIVISION 28.				
5. PROVIDE TEST/RESET STATION ON CEILING WHEN HEIGHT IS 12' OR LESS ABOVE FINISHED FLOOR. PROVIDE TEST/RESET STATION ON WALL WHEN HEIGHT EXCEEDS 12'.				
6. PROVIDE A 35A/3P CIRCUIT BREAKER IN DESIGNATED PANELBOARD AND MAKE CONNECTIONS TO EXISTING CONDUCTORS. EXTEND EXISTING CONDUCTORS AND CONDUIT AS REQUIRED.				
7. PROVIDE A 20A/3P CIRCUIT BREAKER IN DESIGNATED PANELBOARD AND MAKE CONNECTIONS TO EXISTING CONDUCTORS. EXTEND EXISTING CONDUCTORS AND CONDUIT AS REQUIRED.				
8. PROVIDE A 80A/3P CIRCUIT BREAKER IN DESIGNATED PANELBOARD AND MAKE CONNECTIONS UTILIZING 3/8, 1/8(G) IN 1-1/4"C.				
9. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				

BOILER POWER SCHEDULE

MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
B-1	120V/1PH	EXISTING	LA1-EXISTING	1,2,3,4
B-2	120V/1PH	EXISTING	LA1-EXISTING	1,2,3,4
NOTES:				
1. ROUTE POWER CIRCUIT VIA "EMERGENCY SHUTDOWN" PUSHBUTTONS PROVIDED BY HVAC CONTRACTOR. COORDINATE LOCATION WITH EQUIPMENT INSTALLER.				
2. COORDINATE DELAYED TRIP SETTING WITH BOILER MANUFACTURER PRIOR TO EQUIPMENT TESTING.				
3. CONNECT TO EXISTING CIRCUIT. EXTEND CONDUCTORS AND CONDUIT.				
4. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				

PUMP POWER SCHEDULE

MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
P-1	480V/3PH	VFD BY MECHANICAL	HA1-EXISTING	1,4,5
P-2	480V/3PH	VFD BY MECHANICAL	HA1-EXISTING	1,4,5
P-3	480V/3PH	FVNR, NEMA SZ. 0, START/DISCONNECT	HA1-EXISTING	3,4,5
P-4	480V/3PH	FVNR, NEMA SZ. 0, START/DISCONNECT	HA1-EXISTING	3,4,5
P-5	480V/3PH	3A/3P/NEMA 1	HA1-EXISTING	2,4,5
P-6	480V/3PH	3A/3P/NEMA 1	HA1-EXISTING	2,4,5
NOTES:				
1. ROUTE CIRCUIT VIA ASSOCIATED VFD.				
2. LOCATE DISCONNECT AS CLOSE AS POSSIBLE TO UNIT BEING SERVED WHILE MAINTAINING NEC WORKING CLEARANCES.				
3. PROVIDE MOTOR CONTROLLER (STARTER/DISCONNECT) PER SECTION 262616 WITH MOTOR CIRCUIT PROTECTOR AND HOA SWITCH.				
4. CONNECT TO EXISTING CIRCUIT. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES TO EXTEND.				
5. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				

WATER SOURCE HEAT PUMP POWER SCHEDULE

MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
WSHP-1	277V/1PH	EXISTING	HA2-EXISTING	1,2,4,5
WSHP-2	480V/3PH	EXISTING	HA3-EXISTING	1,2,3,5
WSHP-3	480V/3PH	EXISTING	HA3-EXISTING	1,2,3,5
WSHP-4	480V/3PH	EXISTING	HA3-EXISTING	1,2,3,5
WSHP-5	480V/3PH	EXISTING	HA3-EXISTING	1,2,3,5
WSHP-6	480V/3PH	EXISTING	HA3-EXISTING	1,2,3,5
WSHP-7	480V/3PH	EXISTING	HA3-EXISTING	1,2,3,5
WSHP-8	480V/3PH	EXISTING	HA4-EXISTING	1,2,3,5
WSHP-9	480V/3PH	EXISTING	HA4-EXISTING	1,2,3,5
WSHP-10	277V/1PH	EXISTING	HA4-EXISTING	1,2,4,5
WSHP-11	277V/1PH	EXISTING	HA4-EXISTING	1,2,4,5
WSHP-12	277V/1PH	EXISTING	HA4-EXISTING	1,2,4,5
WSHP-13	277V/1PH	EXISTING	HB1-EXISTING	1,2,4,5
WSHP-14	277V/1PH	EXISTING	HB1-EXISTING	1,2,4,5
WSHP-15	480V/3PH	EXISTING	HB2-EXISTING	1,2,3,5
WSHP-16	480V/3PH	EXISTING	HB1-EXISTING	1,2,3,5
WSHP-17	480V/3PH	EXISTING	HB2-EXISTING	1,2,3,5
WSHP-18	480V/3PH	EXISTING	HB2-EXISTING	1,2,3,5
WSHP-19	480V/3PH	EXISTING	HB2-EXISTING	1,2,3,5
WSHP-20	480V/3PH	EXISTING	HB2-EXISTING	1,2,3,5
WSHP-21	480V/3PH	EXISTING	HA2-EXISTING	1,2,3,5
WSHP-22	480V/3PH	EXISTING	HA2-EXISTING	1,2,3,5
WSHP-23	480V/3PH	EXISTING	HA2-EXISTING	1,2,3,5
WSHP-24	480V/3PH	EXISTING	HA2-EXISTING	1,2,3,5
WSHP-25	480V/3PH	EXISTING	HA2-EXISTING	1,2,3,5
WSHP-26	480V/3PH	EXISTING	HA2-EXISTING	1,2,3,5
WSHP-27	480V/3PH	EXISTING	HA2-EXISTING	1,2,3,5
WSHP-28	480V/3PH	EXISTING	HA4-EXISTING	1,2,3,5
WSHP-29	277V/1PH	EXISTING	HB1-EXISTING	1,2,4,5
WSHP-30	480V/3PH	EXISTING	HB1-EXISTING	1,2,3,5
WSHP-31	480V/3PH	EXISTING	HB1-EXISTING	1,2,3,5
WSHP-32	480V/3PH	EXISTING	HC1-EXISTING	1,2,3,5
WSHP-33	480V/3PH	EXISTING	HB2-EXISTING	1,2,3,5
WSHP-34	480V/3PH	EXISTING	HC1-EXISTING	1,2,3,5
WSHP-35	480V/3PH	EXISTING	HC1-EXISTING	1,2,3,5
WSHP-36	480V/3PH	EXISTING	HC1-EXISTING	1,2,3,5
WSHP-37	480V/3PH	EXISTING	HC1-EXISTING	1,2,3,5
WSHP-38	480V/3PH	EXISTING	HC1-EXISTING	1,2,3,5
WSHP-39	480V/3PH	EXISTING	HC1-EXISTING	1,2,3,5
WSHP-40	480V/3PH	EXISTING	HC1-EXISTING	1,2,3,5
NOTES:				
1. DO NOT MOUNT DISCONNECT SWITCH TO THE UNIT. WALL MOUNT DISCONNECT IN EXISTING LOCATION IF POSSIBLE TO AVOID CONFLICT WITH SERVICE CLEARANCES.				
2. CONNECT TO EXISTING CIRCUIT. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES TO EXTEND.				
3. CONNECT TO EXISTING PANEL. CONNECT TO EXISTING 20A/3P CIRCUIT BREAKER IN EXISTING PANELBOARD UTILIZING EXISTING WIRE. MAKE ALL CONNECTIONS, SAFE OFF ALL WIRES NOT USED. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES TO EXTEND AS REQUIRED.				
4. CONNECT TO EXISTING PANEL. CONNECT TO EXISTING 20A/1P CIRCUIT BREAKER IN EXISTING PANELBOARD UTILIZING EXISTING WIRE. MAKE ALL CONNECTIONS. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES TO EXTEND AS REQUIRED.				
5. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				

ELECTRICAL LEGEND

LIGHTING FIXTURES - SEE LIGHTING FIXTURE SCHEDULE

	TYPICAL Z 4' X 4' LED FIXTURE - NORMAL POWER, EMERGENCY EGRESS
	TYPICAL Z 2' X 2' LED FIXTURE - NORMAL POWER, EMERGENCY EGRESS
	TYPICAL 1' X 4' LED FIXTURE - NORMAL POWER, EMERGENCY EGRESS
	TYPICAL DOWNLIGHT LED FIXTURE - NORMAL POWER, EMERGENCY EGRESS
	EXIT LIGHT FIXTURE - WALL, CEILING
	TYPICAL SELF-CONTAINED EMERGENCY LED LIGHTING
	TYPICAL AREA LED LIGHTING
	OCCUPANCY SENSOR
	DAY LIGHT HARVESTING SENSOR
	POWER PACK
	ELECTRICAL LIGHTING CONTROL UNIT

SWITCHES

	SINGLE POLE (WP= WEATHER PROOF)
	SINGLE POLE, MOTOR RATED
	SINGLE POLE, KEY OPERATED
	DOUBLE POLE
	SINGLE POLE, PILOT LIGHT
	THREE WAY
	THREE WAY, KEY OPERATED
	FOUR WAY
	FOUR WAY, KEY OPERATED
	SINGLE POLE, DIMMER
	SINGLE POLE, LOW VOLTAGE, DIMMER

WP=WEATHERPROOF

OUTLETS AND RECEPTACLES

	SIMPLEX
	SIMPLEX - FLOOR MOUNTED
	DUPLEX, DOUBLE DUPLEX - WALL
	DUPLEX ISOLATED GROUND, DOUBLE DUPLEX ISOLATED GROUND - WALL
	DUPLEX - FLOOR MOUNTED
	DUPLEX GFCI, DUPLEX GFCI ABOVE COUNTER - WALL
	DUPLEX ISOLATED GROUND - FLOOR MOUNTED
	DUPLEX ABOVE COUNTER
	DUPLEX ISOLATED GROUND ABOVE COUNTER
	DUPLEX MOUNTED AT 90°
	DUPLEXES - MOUNTED ABOVE AND BELOW, ONE AT 18° AND 90°
	DUPLEXES - MOUNTED ABOVE BELOW, ONE AT 18° AND ABOVE COUNTER
	DOUBLE DUPLEX - MOUNTED ABOVE COUNTER
	DOUBLE DUPLEX ISOLATED GROUND - MOUNTED ABOVE COUNTER
	DUPLEX SPECIAL PURPOSE (CONFIG. AS NOTED)
	FLOOR MOUNTED SPECIAL PURPOSE (CONFIG. AS NOTED)
	CLOCK OUTLET
	JUNCTION BOX - WALL, FLOOR OR CEILING (F= FLOOR, C=CEILING)
	COMPUTER DROP - WALL, FLOOR OR CEILING (F= FLOOR, C=CEILING)
	DATA ACCESS POINT (C=CEILING)
	COMPUTER DATA OUTLET - WALL, FLOOR OR CEILING (F= FLOOR, C=CEILING)

WP=WEATHERPROOF, GFI=GROUND FAULT PROTECTED

C=CEILING MOUNT F=FLOOR MOUNT

(GFI = GROUND FAULT CIRCUIT INTERRUPTER)

CIRCUITS

	RACEWAY IN CEILING OR WALL
	ONE CROSSMARK PER WIRE, 2 WIRES UNLESS SHOWN
	HOMERUN- ONE ARROW PER CIRCUIT
	RACEWAY UNDER FLOOR OR SLAB
	RACEWAY UNDER FLOOR OR SLAB
	FA= FIRE ALARM, IC=INTERCOM, TV=TELEVISION, C=COMPUTER
	EXPOSED RACEWAY
	FLEXIBLE RACEWAY
	CONDUIT - UP, DOWN

PANELS

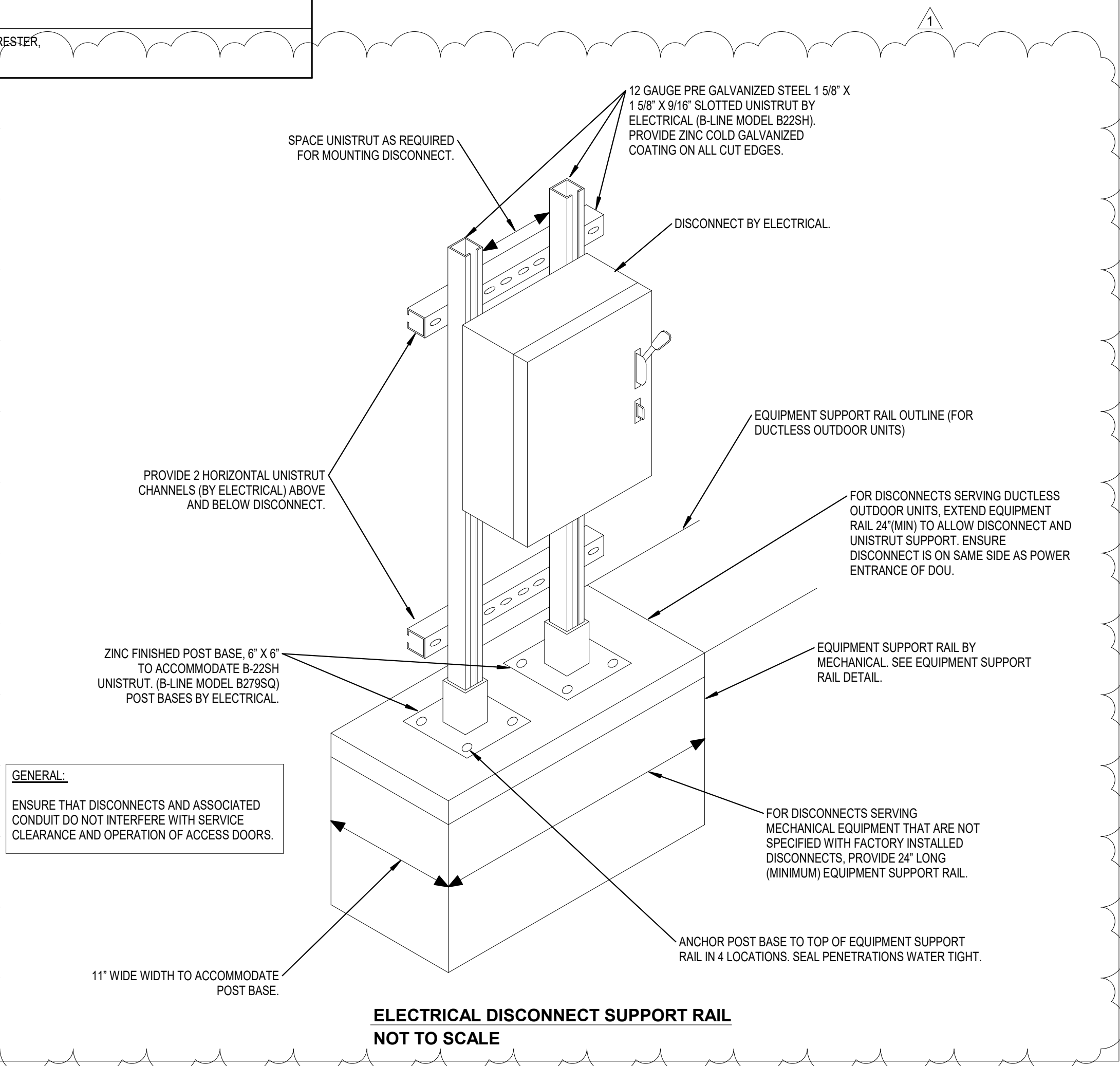
	SWITCHBOARD OR MOTOR CONTROL CENTER
	480/208, 3PH, 4W OR 240V, 1PH, 3W
	120/208V, 3PH, 4W OR 240V, 1PH, 3W
	TCS= TRANSIENT CONTROLLER, LAP=SURGE ARRESTER, ATS= AUTO TRANSFER SWITCH

COMMUNICATION AND PROTECTION

	FAP = FIRE ALARM PANEL, FAA= FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM PULL STATION
	FIRE ALARM HORN STROBE
	FIRE ALARM SPEAKER STROBE
	FIRE ALARM INDICATING STROBE
	SMOKE DETECTOR- CEILING, WALL MOUNTED
	CARBON MONOXIDE DETECTOR- CEILING, WALL MOUNTED
	HEAT DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	DOOR HOLDER
	TELEPHONE OUTLET
	INTERCOM HAND SET- (A=ADMINISTRATION, S= STAFF)
	INTERCOM SPEAKER- CEILING, CEILING PENDENT (WP = WEATHER PROOF)
	HIGH POWER SPEAKER
	MICROPHONE OUTLET - CEILING, WALL MOUNTED
	MASTER CLOCK- CEILING, WALL MOUNTED (D= DOUBLE FACE)
	AUDIO VIDEO CONNECTIONS - WALL, FLOOR OR CEILING (F= FLOOR, C=CEILING)
	AUDIO VIDEO / AUDIO VIDEO CONTROLLER - WALL
	SECURITY KEY PAD
	DIGITAL SECURITY CAMERA
	MOTION DETECTOR
	GLASS BREAK DETECTOR
	CARD READER
	ELECTRIC DOOR STRIKE
	DOOR STATUS MONITOR

GENERAL EQUIPMENT

	DISCONNECT SWITCH (F=FUSED, N=NON-FUSED)
	MOTOR CONTROLLER
	ENCLOSED CIRCUIT BREAKER
	COMBINATION STARTER / DISCONNECT
	CONTACTOR
	PHOTO -CELL
	AUXILIARY RELAY
	TELEVISION DIRECTIONAL TAP
	PUSH BUTTON
	MOTOR
	TRANSFORMER (DRY-TYPE)
	THERMOSTAT
	PULL BOX
	CABLE TRAY
	TIME CONTROL



ROOFTOP UNIT POWER SCHEDULE				
MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
RTAC-3	480V/3PH	INTEGRAL WITH UNIT	HA1-EXISTING	1,2,3,4,5,6,7
RTAC-4	480V/3PH	INTEGRAL WITH UNIT	HA2-EXISTING	1,2,3,4,5,6,8
NOTES:				
1. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				
2. CONTRACTOR SHALL ROUTE ALL POWER CONCEALED WITH MECHANICAL ROOF CURB. CONTRACTOR SHALL ROUTE UTILITIES IN FACTORY DESIGNATED LOCATIONS. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR CUT OPENINGS IN THE BOTTOM OF THE UNIT. FIELD CUTTING OF UNIT SHALL RESULT IN REJECTION OF UNIT AND NEW UNIT SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER.				
3. PROVIDE SINGLE POINT POWER CONNECTION TO UNIT'S INTEGRAL DISCONNECT. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER.				
4. UNIT PROVIDED WITH 120V CONVENIENCE POWER OUTLET FACTORY WIRED.				
5. PROVIDE DUCT MOUNTED SMOKE DETECTOR FOR UNIT AS SPECIFIED IN DIVISION 28.				
6. PROVIDE TEST/RESET STATION ON CEILING WHEN HEIGHT IS 12' OR LESS ABOVE FINISHED FLOOR. PROVIDE TEST/RESET STATION ON WALL WHEN HEIGHT EXCEEDS 12'.				
7. CONNECT TO EXISTING CIRCUIT. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES TO EXTEND.				
8. PROVIDE NEW 50A/3P CIRCUIT BREAKER IN DESIGNATED PANELBOARD UTILIZING 3#6, #10G WIRE IN 1" CONDUIT. MAKE ALL CONNECTIONS.				

ENERGY RECOVERY UNIT POWER SCHEDULE				
MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
ERU-1	480V/3PH	60A/3P, FUSED, NEMA 3R	LDP-EXISTING	1,2,3,4,5
ERU-2	480V/3PH	60A/3P, FUSED, NEMA 3R	LDP-EXISTING	1,2,3,4,5
ERU-3	480V/3PH	60A/3P, FUSED, NEMA 3R	EXISTING	1,2,3,4,5
NOTES:				
1. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				
2. DO NO MOUNT DISCONNECT SWITCH TO THE UNIT. WALL MOUNT DISCONNECT IN EXISTING LOCATION IF POSSIBLE TO AVOID CONFLICT WITH SERVICE CLEARANCES.				
3. PROVIDE SINGLE POINT POWER CONNECTION TO UNIT'S INTEGRAL DISCONNECT. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER.				
4. PROVIDE NEW 40A/3P CIRCUIT BREAKER IN DESIGNATED PANELBOARD. MATCH EXISTING CONDUCTORS AND CONDUIT AND EXTEND.				
5. CONTRACTOR SHALL ROUTE ALL POWER CONCEALED WITH MECHANICAL ROOF CURB. CONTRACTOR SHALL ROUTE UTILITIES IN FACTORY DESIGNATED LOCATIONS. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR CUT OPENINGS IN THE BOTTOM OF THE UNIT. FIELD CUTTING OF UNIT SHALL RESULT IN REJECTION OF UNIT AND NEW UNIT SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER.				

BOILERS POWER SCHEDULE				
MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
B-1	120V/1PH	EXISTING	LA1-EXISTING	1,2,3
B-2	120V/1PH	EXISTING	LA1-EXISTING	1,2,3
NOTES:				
1. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				
2. ROUTE POWER CIRCUIT VIA "EMERGENCY SHUTDOWN" PUSH-BUTTONS PROVIDED BY HVAC CONTRACTOR. COORDINATE LOCATION WITH EQUIPMENT INSTALLER.				
3. CONNECT TO EXISTING CIRCUIT. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES TO EXTEND.				

COOLING TOWER POWER SCHEDULE				
MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
CT-1	480V/3PH	VFD BY MECHANICAL	HA1-EXISTING	1,2,3,5
CT-1 HEAT TAPE	120V/1PH	HARDWIRE	LA1-EXISTING	1,4
CT-1 FAN HEATER	480V/3PH	EXISTING	HA1-EXISTING	1,3,6
NOTES:				
1. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				
2. ROUTE CIRCUIT VIA ASSOCIATED VFD.				
3. LOCATE DISCONNECT AS CLOSE AS POSSIBLE TO UNIT BEING SERVED WHILE MAINTAINING NEC WORKING CLEARANCES.				
4. CONNECT TO EXISTING CIRCUIT. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES TO EXTEND.				
5. PROVIDE NEW 25A/3P CIRCUIT BREAKER IN DESIGNATED PANELBOARD UTILIZING 3#6, #10G WIRE IN 1" CONDUIT. MAKE ALL CONNECTIONS.				
6. CONNECT TO EXISTING 20A/3P CIRCUIT BREAKER IN DESIGNATED PANELBOARD UTILIZING 3#12, #12G IN 1/2" C. MAKE ALL CONNECTIONS.				

PUMPS POWER SCHEDULE				
MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
P-1	480V/3PH	VFD BY MECHANICAL	HA1-EXISTING	1,2,3,6
P-2	480V/3PH	VFD BY MECHANICAL	HA1-EXISTING	1,2,3,6
P-3	480V/3PH	FVNR, NEMA SZ 1, START/DISCONNECT	HA1-EXISTING	1,3,4,5
P-4	480V/3PH	FVNR, NEMA SZ 1, START/DISCONNECT	HA1-EXISTING	1,3,4,5
P-5	480V/3PH	FVNR, NEMA SZ 00, START/DISCONNECT	HA1-EXISTING	1,3,4,5
P-6	480V/3PH	FVNR, NEMA SZ 00, START/DISCONNECT	HA1-EXISTING	1,3,4,5
NOTES:				
1. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				
2. ROUTE CIRCUIT VIA ASSOCIATED VFD.				
3. LOCATE DISCONNECT AS CLOSE AS POSSIBLE TO UNIT BEING SERVED WHILE MAINTAINING NEC WORKING CLEARANCES.				
4. PROVIDE MOTOR CONTROLLER (STARTER/DISCONNECT) PER SECTION 262816 WITH MOTOR CIRCUIT PROTECTOR AND HOA SWITCH.				
5. CONNECT TO EXISTING CIRCUIT. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES TO EXTEND.				
6. PROVIDE A 45A/3P CIRCUIT BREAKER IN DESIGNATED PANELBOARD AND MAKE CONNECTIONS WITH 3#6, #10G CONDUCTORS IN 1" CONDUIT.				

WATER SOURCE HEAT PUMP POWER SCHEDULE				
MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
WSHP-1	277V/1PH	EXISTING	HA2-EXISTING	1,2,3,4
WSHP-2	277V/1PH	EXISTING	HA3-EXISTING	1,2,3,4
WSHP-3	277V/1PH	EXISTING	HA3-EXISTING	1,2,3,4
WSHP-4	277V/1PH	EXISTING	HA3-EXISTING	1,2,3,4
WSHP-5	277V/1PH	EXISTING	HA3-EXISTING	1,2,3,4
WSHP-6	277V/1PH	EXISTING	HA3-EXISTING	1,2,3,4
WSHP-7	277V/1PH	EXISTING	HA3-EXISTING	1,2,3,4
WSHP-8	277V/1PH	EXISTING	HA3-EXISTING	1,2,3,4
WSHP-9	277V/1PH	EXISTING	HA3-EXISTING	1,2,3,4
WSHP-10	277V/1PH	EXISTING	HA3-EXISTING	1,2,3,4
WSHP-11	277V/1PH	EXISTING	HA3-EXISTING	1,2,3,5
WSHP-12	277V/1PH	EXISTING	HA3-EXISTING	1,2,3,5
WSHP-13	277V/1PH	EXISTING	HB1-EXISTING	1,2,3,5
WSHP-14	277V/1PH	EXISTING	HB1-EXISTING	1,2,3,4
WSHP-15	277V/1PH	EXISTING	HB1-EXISTING	1,2,3,4
WSHP-16	277V/1PH	EXISTING	HB1-EXISTING	1,2,3,4
WSHP-17	277V/1PH	EXISTING	HB1-EXISTING	1,2,3,4
WSHP-18	277V/1PH	EXISTING	HB1-EXISTING	1,2,3,4
WSHP-19	277V/1PH	EXISTING	HB1-EXISTING	1,2,3,4
WSHP-20	277V/1PH	EXISTING	HB1-EXISTING	1,2,3,4
WSHP-21	480V/3PH	EXISTING	HM2-EXISTING	1,2,3,5
WSHP-22	480V/3PH	EXISTING	HM2-EXISTING	1,2,3,5
WSHP-23	480V/3PH	EXISTING	HM2-EXISTING	1,2,3,5
WSHP-24	480V/3PH	EXISTING	HM1-EXISTING	1,2,3,5
WSHP-25	480V/3PH	EXISTING	HM1-EXISTING	1,2,3,5
WSHP-26	480V/3PH	EXISTING	HM1-EXISTING	1,2,3,5
WSHP-27	480V/3PH	EXISTING	HM1-EXISTING	1,2,3,5
WSHP-28	480V/3PH	EXISTING	HM1-EXISTING	1,2,3,5
WSHP-29	480V/3PH	EXISTING	HM2-EXISTING	1,2,3,5
WSHP-30	480V/3PH	EXISTING	HM2-EXISTING	1,2,3,5
WSHP-31	480V/3PH	EXISTING	HM2-EXISTING	1,2,3,5
WSHP-32	480V/3PH	EXISTING	HM2-EXISTING	1,2,3,5
WSHP-33	208V/1PH	EXISTING	LM1-EXISTING	1,2,3,5
WSHP-34	480V/3PH	EXISTING	HM2-EXISTING	1,2,3,5
WSHP-35	480V/3PH	EXISTING	HM2-EXISTING	1,2,3,5
WSHP-36	480V/3PH	EXISTING	HM1-EXISTING	1,2,3,5
WSHP-37	480V/3PH	EXISTING	HM1-EXISTING	1,2,3,5
WSHP-38	480V/3PH	EXISTING	HM1-EXISTING	1,2,3,5
WSHP-39	480V/3PH	EXISTING	HC1-EXISTING	1,2,3,5
WSHP-40	480V/3PH	EXISTING	HM2-EXISTING	1,2,3,5
WSHP-41	480V/3PH	EXISTING	HM1-EXISTING	1,2,3,5
WSHP-42	480V/3PH	EXISTING	HC1-EXISTING	1,2,3,5
WSHP-43	480V/3PH	EXISTING	HC1-EXISTING	1,2,3,5
WSHP-44	480V/3PH	EXISTING	HC1-EXISTING	1,2,3,5
WSHP-45	277V/1PH	EXISTING	HB1-EXISTING	1,2,3,4
WSHP-46	480V/3PH	EXISTING	HC1-EXISTING	1,2,3,5
WSHP-47	277V/1PH	EXISTING	HC1-EXISTING	1,2,3,4
WSHP-48	480V/3PH	EXISTING	HC1-EXISTING	1,2,3,5
WSHP-49	277V/1PH	EXISTING	HB1-EXISTING	1,2,3,4
WSHP-50	277V/1PH	EXISTING	HB1-EXISTING	1,2,3,4
WSHP-51	277V/1PH	EXISTING	HA2-EXISTING	1,2,3,4
WSHP-52	277V/1PH	EXISTING	HA2-EXISTING	1,2,3,4
WSHP-53	277V/1PH	EXISTING	HA2-EXISTING	1,2,3,4
WSHP-54	277V/1PH	EXISTING	HA2-EXISTING	1,2,3,4
WSHP-55	277V/1PH	EXISTING	HA2-EXISTING	1,2,3,4
WSHP-56	277V/1PH	EXISTING	HA2-EXISTING	1,2,3,4
WSHP-57	277V/1PH	EXISTING	HA2-EXISTING	1,2,3,4
WSHP-58	277V/1PH	EXISTING	HA2-EXISTING	1,2,3,4
WSHP-59	277V/1PH	EXISTING	HA2-EXISTING	1,2,3,4
NOTES:				
1. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				
2. DO NO MOUNT DISCONNECT SWITCH TO THE UNIT. WALL MOUNT DISCONNECT IN EXISTING LOCATION IF POSSIBLE TO AVOID CONFLICT WITH SERVICE CLEARANCES.				
3. CONNECT TO EXISTING CIRCUIT. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES TO EXTEND.				
4. FUSED EXISTING DISCONNECT DOWN TO 20A TO MATCH MANUFACTURER'S MOCP.				
5. FUSED EXISTING DISCONNECT DOWN TO 15A TO MATCH MANUFACTURER'S MOCP.				

INTAKE VENTILATOR POWER SCHEDULE				
MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
IV-1	120V/1PH	WP MRS	LA1-EXISTING	1,2,3,4
IV-2	120V/1PH	WP MRS	LA3-EXISTING	1,2,3,4
IV-3	120V/1PH	WP MRS	LA3-EXISTING	1,2,3,4
IV-4	120V/1PH	WP MRS	LA3-EXISTING	1,2,3,4
IV-5	120V/1PH	WP MRS	LB1-EXISTING	1,2,3,4
IV-6	120V/1PH	WP MRS	LB1-EXISTING	1,2,3,4
IV-7	120V/1PH	WP MRS	LA2-EXISTING	1,2,3,4
IV-8	120V/1PH	WP MRS	LA2-EXISTING	1,2,3,4
NOTES:				
1. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				
2. CONTRACTOR SHALL ROUTE ALL POWER CONCEALED WITH MECHANICAL ROOF CURB. CONTRACTOR SHALL ROUTE UTILITIES IN FACTORY DESIGNATED LOCATIONS. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR CUT OPENINGS IN THE BOTTOM OF THE UNIT. FIELD CUTTING OF UNIT SHALL RESULT IN REJECTION OF UNIT AND NEW UNIT SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER.				
3. PROVIDE SINGLE POINT POWER CONNECTION TO UNIT'S INTEGRAL DISCONNECT. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER.				
4. CONNECT TO EXISTING CIRCUIT. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES TO EXTEND.				

KITCHEN MAKE UP AIR UNIT POWER SCHEDULE				
MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
KMAU-1	480V/3PH	EXISTING	HA1-EXISTING	1,2,3,4
NOTES:				
1. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				
2. ROUTE POWER CIRCUIT VIA KITCHEN HOOD SWITCH LOCATED IN KITCHEN. COORDINATE LOCATION WITH EXISTING TO REMAIN EQUIPMENT. ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL STARTER AS REQUIRED PER MANUFACTURER INSTALLATION INSTRUCTIONS.				
3. FUSE EXISTING DISCONNECT DOWN TO 20A.				
4. CONNECT TO EXISTING CIRCUIT. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES TO EXTEND.				

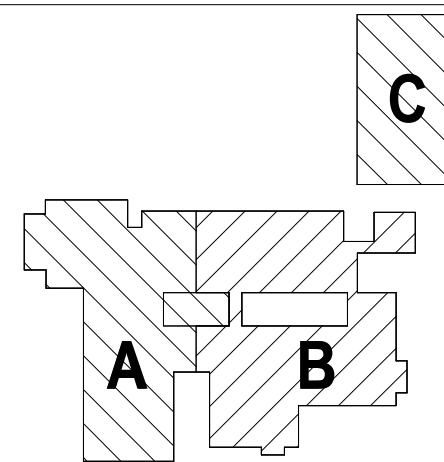
KITCHEN EXHAUST FAN POWER SCHEDULE				
MECHANICAL TAG	VOLTAGE REQUIRED	DISCONNECT	CIRCUIT #	NOTES
KMAU-1	480V/3PH	EXISTING	HA1-EXISTING	1,2,3,4
NOTES:				
1. VOLTAGE, PHASE, AND AMPERAGE SHOWN ARE BASED ON THE ORIGINAL DRAWINGS. FIELD VERIFY EXISTING CIRCUIT AND COORDINATE ANY DISCREPANCY WITH MECHANICAL CONTRACTOR.				
2. ROUTE POWER CIRCUIT VIA KITCHEN HOOD SWITCH LOCATED IN KITCHEN. COORDINATE LOCATION WITH EXISTING TO REMAIN EQUIPMENT. ELECTRICAL CONTRACTOR TO PROVIDE ADDITIONAL STARTER AS REQUIRED PER MANUFACTURER INSTALLATION INSTRUCTIONS.				
3. FUSE EXISTING DISCONNECT DOWN TO 20A.				
4. CONNECT TO EXISTING CIRCUIT. MATCH EXISTING CONDUCTOR AND CONDUIT SIZES TO EXTEND.				

ELECTRICAL LEGEND	
LIGHTING FIXTURES - SEE LIGHTING FIXTURE SCHEDULE	
	TYPICAL 2' X 4' LED FIXTURE - NORMAL POWER, EMERGENCY EGRESS
	TYPICAL 2' X 2' LED FIXTURE - NORMAL POWER, EMERGENCY EGRESS
	TYPICAL 1' X 4' LED FIXTURE - NORMAL POWER, EMERGENCY EGRESS
	TYPICAL DOWNLIGHT LED FIXTURE - NORMAL POWER, EMERGENCY EGRESS
	EXIT LIGHT FIXTURE - WALL, CEILING
	TYPICAL SELF-CONTAINED EMERGENCY LED LIGHTING
	TYPICAL AREA LED LIGHTING
	OCCUPANCY SENSOR
	DAY LIGHT HARVESTING SENSOR
	POWER PACK
	ELECTRICAL LIGHTING CONTROL UNIT
SWITCHES	
	S SINGLE POLE (WP= WEATHER PROOF)
	S_M SINGLE POLE, MOTOR RATED
	S_K SINGLE POLE, KEY OPERATED
	S_2 DOUBLE POLE
	S_P SINGLE POLE, PILOT LIGHT
	S_3 THREE WAY
	S_3_K THREE WAY, KEY OPERATED
	S_4 FOUR WAY
	S_4_K FOUR WAY, KEY OPERATED
	S_D SINGLE POLE, DIMMER
	S_L_D SINGLE POLE, LOW VOLTAGE, DIMMER
WP=WEATHERPROOF	
OUTLETS AND RECEPTICALS	
	Simplex
	SIMPLEX - FLOOR MOUNTED
	DUPLEX, DOUBLE DUPLEX - WALL
	DUPLEX ISOLATED GROUND, DOUBLE DUPLEX ISOLATED GROUND - WALL
	DUPLEX - FLOOR MOUNTED
	DUPLEX GFCI, DUPLEX GFCI ABOVE COUNTER - WALL
	DUPLEX ISOLATED GROUND - FLOOR MOUNTED
	DUPLEX ABOVE COUNTER
	DUPLEX ISOLATED GROUND ABOVE COUNTER
	DUPLEX MOUNTED AT 90°
	DUPLEXES - MOUNTED ABOVE AND BELOW, ONE AT 16" AND 90°
	DUPLEXES - MOUNTED ABOVE BELOW, ONE AT 16" AND ABOVE COUNTER
	DOUBLE DUPLEX - MOUNTED ABOVE COUNTER
	DOUBLE DUPLEX ISOLATED GROUND - MOUNTED ABOVE COUNTER
	DUPLEX SPECIAL PURPOSE (CONFIG. AS NOTED)
	FLOOR MOUNTED SPECIAL PURPOSE (CONFIG. AS NOTED)
	CLOCK OUTLET
	JUNCTION BOX - WALL, FLOOR OR CEILING (F= FLOOR, C=CEILING)
	COMPUTER DROP - WALL, FLOOR OR CEILING (F= FLOOR, C=CEILING)
	DATA ACCESS POINT (C=CEILING)
	COMPUTER DATA OUTLET - WALL, FLOOR OR CEILING (F= FLOOR, C=CEILING)
WP=WEATHERPROOF, GFI=GROUND FAULT PROTECTED, CHESLING MOUNT F-HOOD MOUNT, (GFCI = GROUND FAULT CIRCUIT INTERRUPTER)	
CIRCUITS	
	RACEWAY IN CEILING OR WALL
	ONE CROSSMARK PER WIRE, 2 WIRES UNLESS SHOWN
	HOMERUN- ONE ARROW PER CIRCUIT
	RACEWAY UNDER FLOOR OR SLAB
	RACEWAY UNDER



147 TYE STREET, STOCKBRIDGE, GA 30281

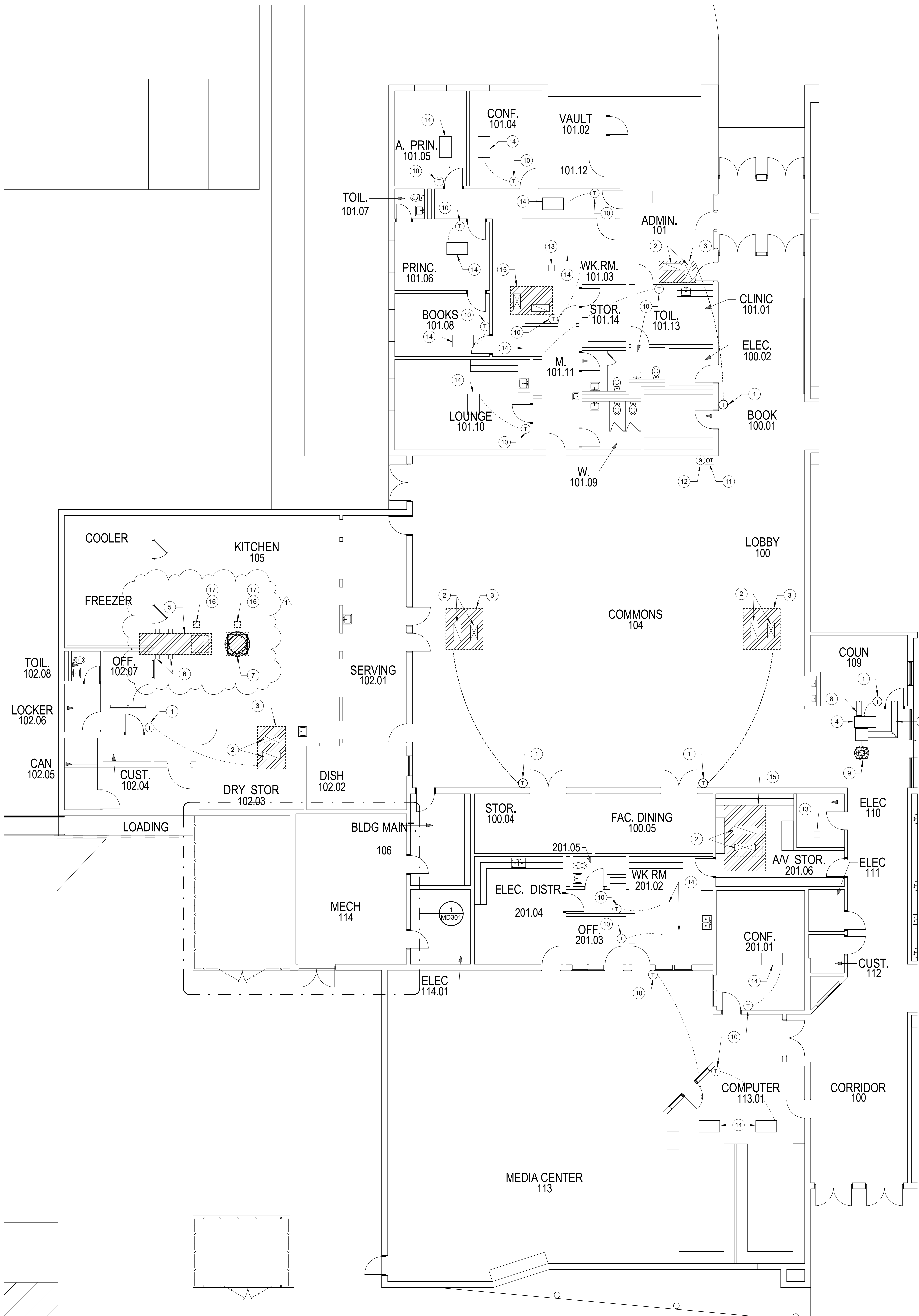
CLIENT PROJECT NUMBER: 260013



CHECKED BY: NHO
DRAWN BY: CTS

E801

ELECTRICAL DISCONNECT SUPPORT RAIL
NOT TO SCALE



MECHANICAL DEMOLITION FLOOR PLAN – SECTOR A
1/8" = 1'-0"

NOTES GENERAL: (THIS SHEET ONLY)

- A. SEE "GENERAL DEMOLITION" PARAGRAPH IN SPECIFICATION SECTION 230513 CONCERNING GENERAL DEMOLITION.
- B. THIS FLOOR PLAN ONLY SHOWS MECHANICAL ITEMS RELEVANT TO THE SCOPE OF WORK FOR THIS PROJECT. UNLESS SPECIFICALLY IDENTIFIED, EXISTING HVAC ITEMS NOT SHOWN ON THIS PLAN ARE TO REMAIN AS IS.
- C. ALL CONTROL WORK IS BEING PERFORMED BY THE OWNER'S CONTROL COMPANY (CONTROL CONCEPTS, INC.). REMOVAL OF CONTROL WIRING/DDC CONTROLLERS, SENSORS, ETC., SHALL BE PERFORMED BY THE CONTROLS CONTRACTOR.
- D. ALL ELECTRICAL POWER WORK, INCLUDING DISCONNECTING EXISTING UNITS AND REMOVAL OF ELECTRICAL DEVICES AND WIRING, SHALL BE DONE BY THE ELECTRICAL CONTRACTOR.
- E. CONTRACTOR SHALL PROVIDE WEATHER PROTECTION FOR ALL BUILDING OPENINGS RESULTING FROM MECHANICAL EQUIPMENT REMOVAL.
- F. THE SCOPE OF WORK FOR THE AIR DISTRIBUTION FOR EACH ZONE SERVED BY A WATER SOURCE HEAT PUMP GENERALLY CONSISTS OF REMOVING THE WATER SOURCE HEAT PUMP BUT REUSING THE SHEET METAL SUPPLY DUCTS.
- G. TO ACCOMPLISH THE WSHWP DEMOLITION WORK, THE CONTRACTOR MUST DRAIN PORTIONS OF THE EXISTING LOOP WATER SUPPLY AND RETURN PIPING SYSTEM. CONTRACTOR SHALL NOT CAUSE ANY WATER DAMAGE.
- H. GENERAL: EXISTING POWER CIRCUITS FOR RTACS RISE THROUGH EXISTING PITCH POCKETS. SEE ELECTRICAL DRAWINGS FOR REMOVAL OF POWER CIRCUIT TO BELOW ROOF DECK, AND JUNCTIONING CIRCUIT BELOW ROOF LEVEL, AND ROUTING CIRCUIT UP INSIDE CURB AND NEW CURB ADAPTER TO NEW RTAC. SEE NEW WORK DRAWINGS. FILL PITCH POCKET FOLLOWING POWER CIRCUIT REMOVAL. CONTROL CIRCUITS ALSO TO BE REROUTED BY OWNERS CONTROL COMPANY, CCL.

I. PRIOR TO REMOVAL OF ABOVE CEILING HORIZONTAL WSHWP, CONTRACTOR SHALL RECORD THE RETURN AIR PLENUM SIDE (RIGHT OR LEFT) CONNECTION SIDE OF PLENUM FOR NEW REPLACEMENT UNITS SHALL MATCH EXISTING CONNECTION SIDE.

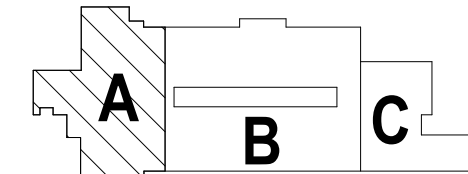
NOTES: (THIS SHEET ONLY)

1. REMOVE EXISTING WALL MOUNTED DDC TEMPERATURE SENSOR. REMOVE EXISTING ASSOCIATED DDC CONTROLLER MOUNTED ABOVE CEILING IF CONTROLLER DOES NOT HAVE NECESSARY QUANTITY OF INPUTS FOR NEW DEHUMIDIFICATION AND NUMBER OF COOLING AND HEATING STAGES SPECIFIED. OTHERWISE, CONTROLLER AND SENSOR MAY REMAIN. FIELD VERIFY DDC CONTROLLER LOCATION. SEE NEW WORK DRAWINGS FOR NEW DDC TEMPERATURE SENSOR WITH HUMIDITY SENSOR CAPABILITY.
2. LOCATION SHOWN FOR SUPPLY AIR DUCT AND RETURN AIR DUCT IS SYMBOLIC. SUPPLY AND RETURN DUCT LOCATIONS SHOWN ARE BASED ON ORIGINAL DRAWINGS, AND MAY NOT REPRESENT THE ACTUAL LOCATIONS. CONTRACTOR SHALL FIELD VERIFY EXACT DUCT LOCATIONS AND DIMENSIONS PRIOR TO ORDERING REPLACEMENT EQUIPMENT.
3. REMOVE EXISTING GAS FIRED ROOFTOP AIR CONDITIONING UNIT. EXISTING ROOF CURB TO REMAIN FOR REUSE. DIMENSIONS OF ROOFTOP UNITS ARE NOT TO BE SCALED. DIMENSIONS (IF SHOWN) ARE SYMBOLIC AND APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY EXISTING CURB DIMENSIONS AND EXISTING MODEL NUMBERS PRIOR TO ORDERING REPLACEMENT UNITS AND ADAPTER CURBS. SEE NEW WORK DRAWINGS FOR NEW RTAC ATOP EXISTING CURB.
4. REMOVE EXISTING HORIZONTAL ABOVE CEILING WATER SOURCE HEAT PUMP INCLUDING SUPPORTS. REMOVE ASSOCIATED SUPPLY AIR DUCTWORK AS REQUIRED TO REMOVE WSHWP. REMOVE EXISTING RETURN AIR DUCTWORK AS REQUIRED TO REMOVE WSHWP. SEE NEW WORK DRAWINGS FOR REQUIREMENTS FOR NEW WSHWP. LOCATION SHOWN FOR WSHWP, DISCHARGE AND RETURN ORIENTATION FROM WSHWP, AND DUCT LOCATION ARE BASED ON ORIGINAL DRAWINGS AND IN MANY CASES DO NOT REFLECT INSTALLED CONDITIONS. DISCONNECT EXISTING CONDENSATE DRAIN FROM WSHWP PIPING AND REMOVE AS REQUIRED TO FACILITATE UNIT REMOVAL. REMOVE EXISTING HOSE KIT FROM WSHWP AND REMOVE EXISTING LOOP WATER SUPPLY AND RETURN PIPING FROM WSHWP AS DETAILED. LOOP PIPING AND HOSE KIT NOT SHOWN FOR CLARITY.
5. REMOVE EXISTING GAS FIRED KITCHEN MAKEUP AIR UNIT SERVING KITCHEN HOOD. EXISTING ROOF CURB SHALL REMAIN FOR REUSE. SEE NEW WORK DRAWINGS FOR INSTALLATION OF NEW MAKEUP AIR UNIT ATOP EXISTING CURB. PROVIDE CURB ADAPTER TO ALLOW FOR MOUNTING OF NEW UNIT.
6. EXISTING ROOF SUPPORT RAILS. CONTRACTOR MAY REUSE EXISTING RAILS IF SIZING, SPACING, ETC. MEETS REQUIREMENTS FOR REPLACEMENT UNIT. OTHERWISE, REMOVE AND REPLACE RAILS AS REQUIRED TO ACCOMMODATE NEW UNIT INSTALLATION.
7. REMOVE EXISTING ROOF MOUNTED GREASE EXHAUST FAN SERVING KITCHEN HOOD. EXISTING ROOF CURB SHALL REMAIN. SEE NEW WORK DRAWINGS FOR NEW EXHAUST FAN ATOP EXISTING CURB WITH CURB ADAPTER.
8. EXISTING SUPPLY DUCT, RETURN DUCT, AND RETURN AIR PLENUM TO REMAIN AS INDICATED IN NOTE 4.
9. REMOVE EXISTING ROOF MOUNTED NON-POWERED OUTDOOR AIR INTAKE VENTILATOR. EXISTING CURB TO REMAIN FOR REUSE. SEE NEW WORK DRAWINGS FOR INSTALLATION OF NEW VENTILATOR ATOP CURB ADAPTER.
10. EXISTING VVT TEMPERATURE SENSOR TO REMAIN.
11. REMOVE EXISTING OVERRIDE TIMER. PATCH/REPAIR WALL AS REQUIRED TO MATCH EXISTING.
12. REMOVE EXISTING LOW LIMIT THERMOSTAT. PATCH/REPAIR WALL AS REQUIRED TO MATCH EXISTING.
13. EXISTING VVT BYPASS DAMPER TO REMAIN.
14. EXISTING VVT DAMPER TO REMAIN.
15. EXISTING ROOFTOP UNIT TO REMAIN.
16. EXISTING POWER CIRCUIT FOR EQUIPMENT RISES THROUGH EXISTING PITCH POCKET. SEE ELECTRICAL DRAWINGS FOR REMOVAL OF POWER CIRCUIT TO BELOW ROOF DECK, AND JUNCTIONING CIRCUIT BELOW ROOF LEVEL, AND ROUTING CIRCUIT UP INSIDE CURB AND NEW CURB ADAPTER TO NEW EQUIPMENT. SEE NEW WORK DRAWINGS. FILL PITCH POCKET FOLLOWING POWER CIRCUIT REMOVAL.
17. EXISTING CONTROL CIRCUIT SERVING EQUIPMENT RISES THROUGH EXISTING PITCH POCKET. CONTROL CIRCUIT TO BE REROUTED UP INSIDE CURB AND CURB ADAPTER TO NEW EQUIPMENT. SEE NEW WORK DRAWINGS. CONTROL CIRCUIT WORK TO BE PERFORMED BY OWNER'S CONTROL COMPANY, CCL.



HCS Group 6-1 - HVAC Replacement
AUSTIN ROAD ELEMENTARY SCHOOL
50 AUSTIN ROAD, STOCKBRIDGE, GA 30281

CONTRACT DRAWINGS
CLIENT PROJECT NUMBER: 260013



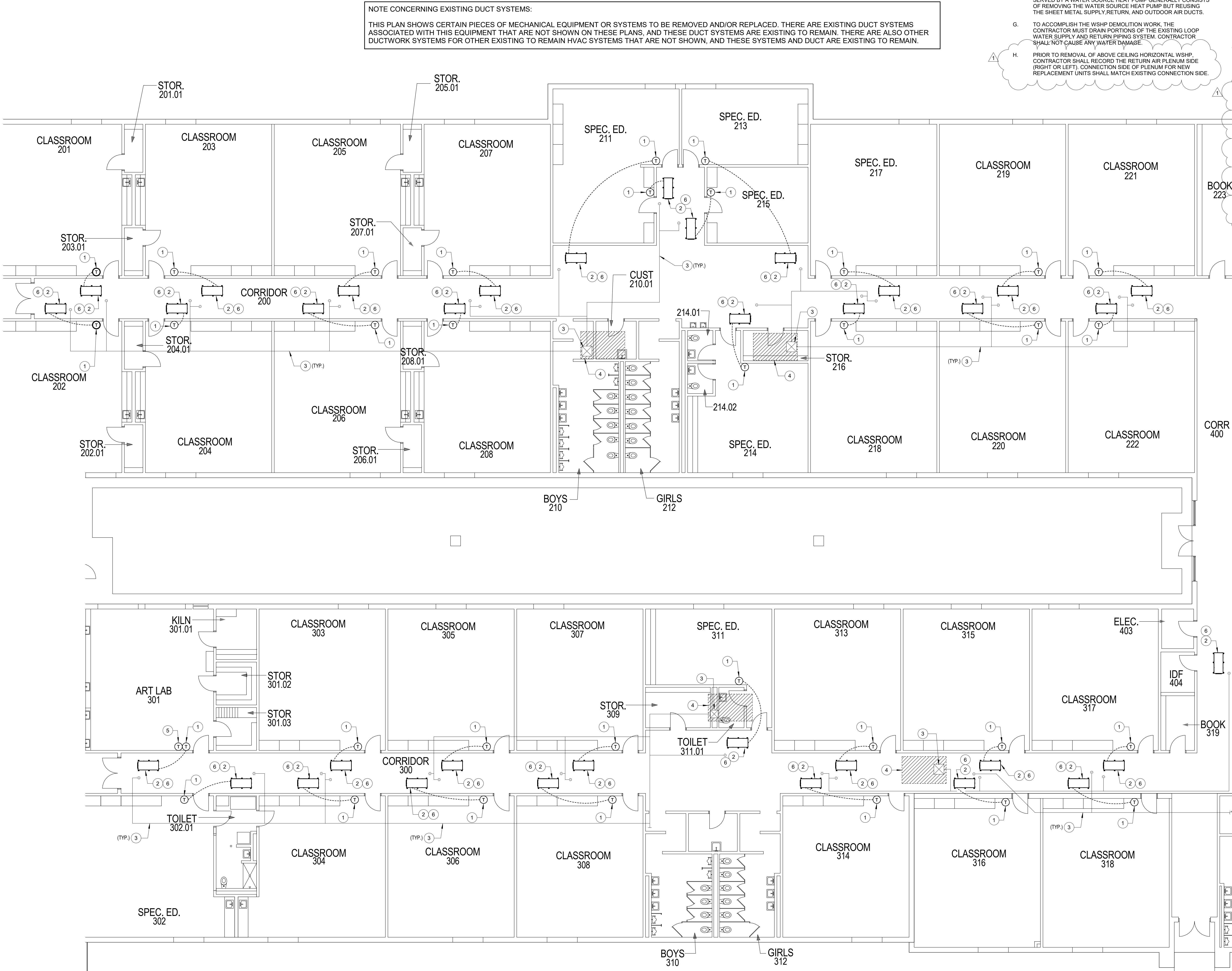
KEY PLAN

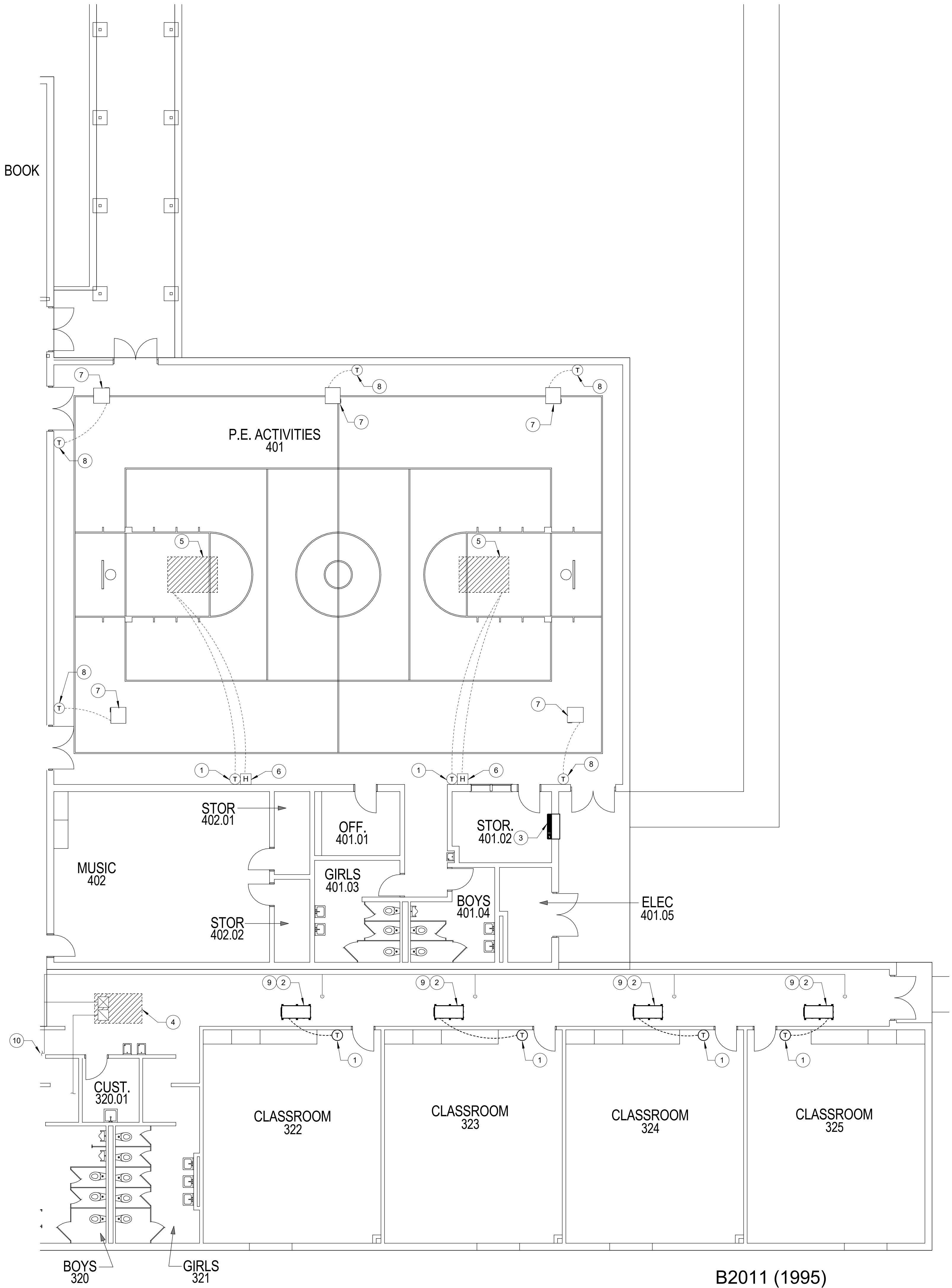


CLIENT HENRY COUNTY BOARD OF EDUCATION		
DATE 05 / 29 / 2026		PROJECT NUMBER 260013
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

MECHANICAL
DEMOLITION FLOOR
PLAN - SECTOR A

MD101





NOTES GENERAL: (THIS SHEET ONLY)

- A. SEE "GENERAL DEMOLITION" PARAGRAPH IN SPECIFICATION SECTION 230513 CONCERNING GENERAL DEMOLITION.
- B. THIS FLOOR PLAN ONLY SHOWS MECHANICAL ITEMS RELEVANT TO THE SCOPE OF WORK FOR THIS PROJECT. UNLESS SPECIFICALLY IDENTIFIED, EXISTING HVAC ITEMS NOT SHOWN ON THIS PLAN ARE TO REMAIN AS IS.
- C. ALL CONTROL WORK IS BEING PERFORMED BY THE OWNER'S CONTROL COMPANY (CONTROL CONCEPTS, INC). REMOVAL OF CONTROL WIRING/DDC CONTROLLERS, SENSORS, ETC. SHALL BE PERFORMED BY THE CONTROLS CONTRACTOR.
- D. ALL ELECTRICAL POWER WORK, INCLUDING DISCONNECTING EXISTING UNITS AND REMOVAL OF ELECTRICAL DEVICES AND WIRING, SHALL BE DONE BY THE ELECTRICAL CONTRACTOR.
- E. CONTRACTOR SHALL PROVIDE WEATHER PROTECTION FOR ALL BUILDING OPENINGS RESULTING FROM MECHANICAL EQUIPMENT REMOVAL.
- F. THE SCOPE OF WORK FOR THE AIR DISTRIBUTION FOR EACH ZONE SERVED BY A WATER SOURCE HEAT PUMP GENERALLY CONSISTS OF REMOVING THE WATER SOURCE HEAT PUMP BUT REUSING THE SHEET METAL SUPPLY DUCTS.
- G. TO ACCOMPLISH THE WSHWP DEMOLITION WORK, THE CONTRACTOR MUST DRAIN PORTIONS OF THE EXISTING LOOP WATER SUPPLY AND RETURN PIPING SYSTEM. CONTRACTOR SHALL NOT CAUSE ANY WATER DAMAGE.
- H. PRIOR TO REMOVAL OF ABOVE CEILING HORIZONTAL WSHWP, CONTRACTOR SHALL RECORD THE RETURN AIR PLENUM SIDE (RIGHT OR LEFT). CONNECTION SIDE OF PLENUM FOR NEW REPLACEMENT UNITS SHALL MATCH EXISTING CONNECTION SIDE.

NOTES: (THIS SHEET ONLY)

1. REMOVE EXISTING WALL MOUNTED DDC TEMPERATURE SENSOR. REMOVE EXISTING ASSOCIATED DDC CONTROLLER MOUNTED ABOVE CEILING IF CONTROLLER DOES NOT HAVE NECESSARY QUANTITY OF INPUTS FOR NEW DEHUMIDIFICATION AND NUMBER OF COOLING AND HEATING STAGES SPECIFIED. OTHERWISE, CONTROLLER MAY REMAIN. FIELD VERIFY DDC CONTROLLER LOCATION. SEE NEW WORK DRAWINGS FOR NEW DDC TEMPERATURE SENSOR WITH HUMIDITY SENSOR CAPABILITY.
2. REMOVE EXISTING HORIZONTAL ABOVE CEILING WATER SOURCE HEAT PUMP INCLUDING SUPPORTS. REMOVE ASSOCIATED SUPPLY AIR DUCTWORK AS REQUIRED TO REMOVE WSHWP. REMOVE EXISTING RETURN AIR DUCTWORK AS REQUIRED TO REMOVE WSHWP. SEE NEW WORK DRAWINGS FOR REQUIREMENTS FOR NEW WSHWP. LOCATION SHOWN FOR WSHWP, DISCHARGE AND RETURN ORIENTATION FROM WSHWP'S, AND DUCT LOCATION (IF SHOWN) ARE BASED ON ORIGINAL DRAWINGS AND IN MANY CASES MAY NOT REFLECT INSTALLED CONDITIONS. DISCONNECT EXISTING CONDENSATE DRAIN FROM WSHWP PIPING AND REMOVE AS REQUIRED TO FACILITATE UNIT REMOVAL. REMOVE EXISTING HOSE KIT FROM WSHWP AND REMOVE EXISTING LOOP WATER SUPPLY AND RETURN PIPING FROM WSHWP AS DETAILED. LOOP PIPING AND HOSE KIT NOT SHOWN FOR CLARITY.
3. REMOVE EXISTING PACKAGED TERMINAL HEAT PUMP. SEE NEW WORK DRAWINGS FOR NEW UNIT INSTALLATION.
4. EXISTING ROOF MOUNTED ENERGY RECOVERY UNIT TO REMAIN.
5. EXISTING ROOFTOP UNIT TO REMAIN.
6. REMOVE EXISTING WALL MOUNTED DDC HUMIDITY SENSOR. PATCH AND REPAIR WALL AS REQUIRED TO MATCH EXISTING. SEE NEW WORK DRAWINGS FOR NEW DDC TEMPERATURE SENSOR WITH HUMIDITY SENSOR CAPABILITY.
7. EXISTING UNIT HEATER TO REMAIN.
8. EXISTING UNIT HEATER THERMOSTAT TO REMAIN.
9. MOST ALL EXISTING WATER SOURCE HEAT PUMPS ARE PROVIDED WITH A BI-POLAR IONIZATION UNIT (BPIU). CONTRACTOR SHALL CERTIFY EXACT LOCATION OF BPIU.
- IF BPIU IS INSTALLED ON SUPPLY DUCT, AND IF CONTRACTOR IS NOT REMOVING THE PORTION OF SUPPLY DUCT WHERE THE BPIU IS INSTALLED, CONTRACTOR SHALL CAREFULLY REMOVE POWER WIRING FROM WSHWP.
- IF BPIU IS INSTALLED ON SUPPLY DUCT, AND IF CONTRACTOR IS REMOVING THE PORTION OF SUPPLY DUCT WHERE THE BPIU IS INSTALLED, CONTRACTOR SHALL CAREFULLY REMOVE THE BPIU FROM THE DUCT AND CAREFULLY REMOVE POWER WIRING FROM WSHWP, AND LABEL BPIU WITH ROOM SERVED.
- IF BPIU IS INSTALLED INSIDE EXISTING WSHWP, CONTRACTOR SHALL CAREFULLY REMOVE THE BPIU FROM THE UNIT AND CAREFULLY REMOVE POWER WIRING FROM WSHWP, AND LABEL BPIU WITH ROOM SERVED.
- SEE NEW WORK DRAWING FOR REWIRING POWER TO BPIU, AND WHERE BPIU WAS REMOVED, REINSTALLING BPIU IN DUCT OR INSIDE WSHWP AS APPLICABLE.
10. SEE SHEET MD102 FOR CONTINUATION.

NOTE CONCERNING EXISTING DUCT SYSTEMS:

THIS PLAN SHOWS CERTAIN PIECES OF MECHANICAL EQUIPMENT OR SYSTEMS TO BE REMOVED AND/OR REPLACED. THERE ARE EXISTING DUCT SYSTEMS ASSOCIATED WITH THIS EQUIPMENT THAT ARE NOT SHOWN ON THESE PLANS, AND THESE DUCT SYSTEMS ARE EXISTING TO REMAIN. THERE ARE ALSO OTHER DUCTWORK SYSTEMS FOR OTHER EXISTING TO REMAIN HVAC SYSTEMS THAT ARE NOT SHOWN, AND THESE SYSTEMS AND DUCT ARE EXISTING TO REMAIN.



GREEN, GA
770.227.0445
www.p&k.com

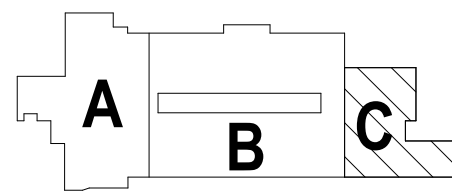


HCS Group 6-1 - HVAC Replacement
AUSTIN ROAD ELEMENTARY SCHOOL

50 AUSTIN ROAD, STOCKBRIDGE, GA 30281

CONTRACT DRAWINGS

CLIENT PROJECT NUMBER: 260013



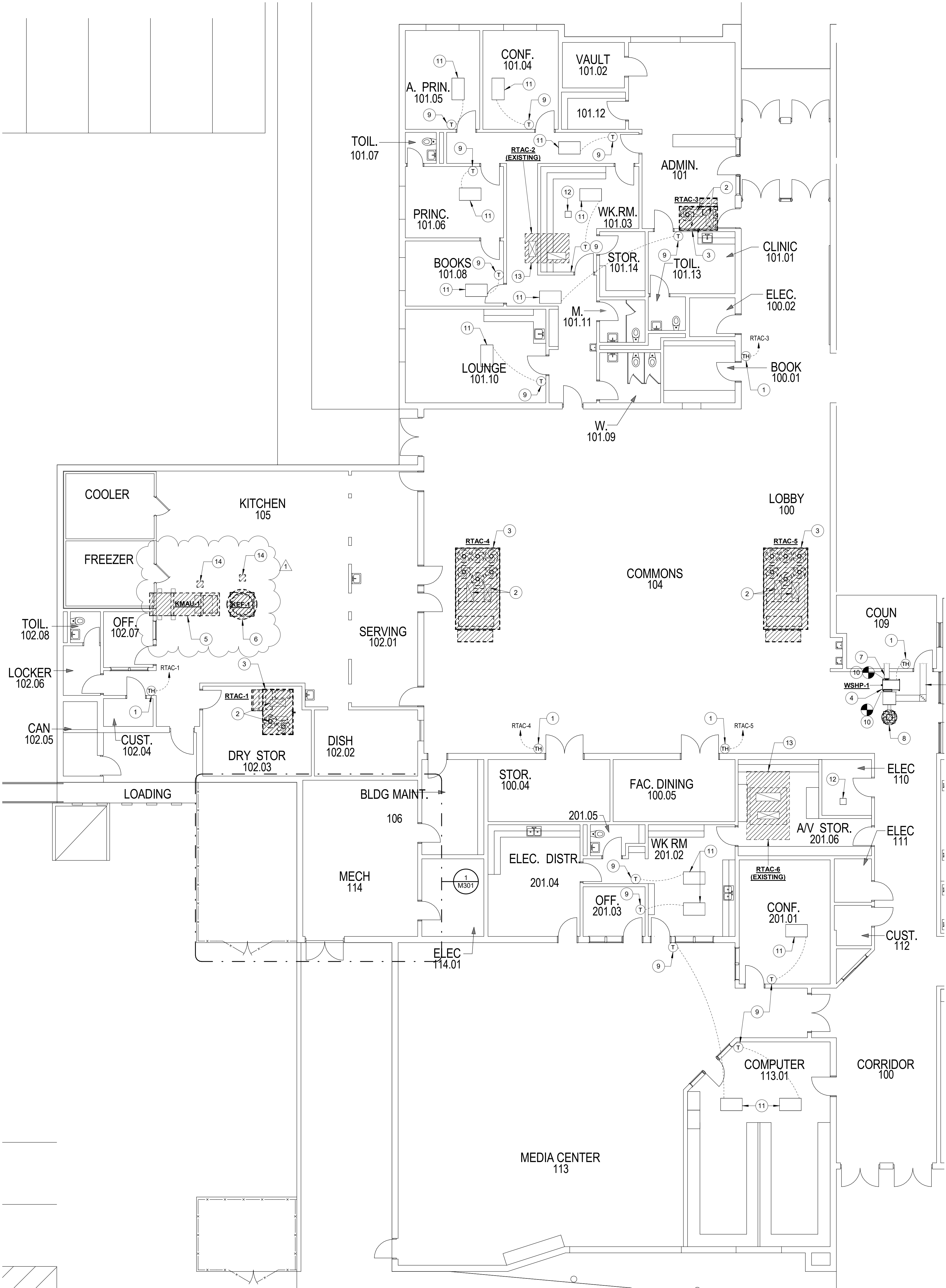
KEY PLAN



CLIENT HENRY COUNTY BOARD OF EDUCATION		
DATE 05 / 29 / 2026		PROJECT NUMBER 260013
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

MECHANICAL
DEMOLITION FLOOR
PLAN – SECTOR C

MD103



MECHANICAL NEW WORK FLOOR PLAN – SECTOR A
1/8" = 1'-0"

NOTES GENERAL: (THIS SHEET ONLY)

- A. RTAC AND WSHWP TAGS INCLUDE NUMBER TO DESIGNATE INDIVIDUAL UNIT, AND INCLUDES ROOM NUMBER TO INDICATE MAIN ROOM SERVED BY EQUIPMENT.
- B. ALL CONTROL WORK IS BEING PERFORMED IN THIS CONTRACT BY THE OWNER'S COUNTY-WIDE CONTROL COMPANY (CONTROL CONCEPTS, INC.). INSTALLATION OF CONTROL WIRING/DDC CONTROLLERS, TEMPERATURE SENSORS, ETC., SHALL BE PERFORMED BY CONTROLS CONTRACTOR.
- C. CONTRACTOR IS ADVISED THAT INSTALLED LOCATIONS OF WSHWP, AND SUPPLY AND RETURN DUCT FREQUENTLY DIFFERED FROM ORIGINAL DESIGN DRAWINGS. CONTRACTOR SHALL FIELD VERIFY WSHWP AND DUCT LOCATIONS PRIOR TO ORDERING WSHWP'S TO CONFIRM CORRECT SUPPLY / RETURN CONNECTION ARRANGEMENT.

NOTES: (THIS SHEET ONLY)

1. MOUNT NEW TEMPERATURE SENSOR IN SAME LOCATION AS SENSORS RELOCATED/REMOVED.
2. LOCATION SHOWN FOR SUPPLY AIR DUCT AND RETURN AIR DUCT IS SYMBOLIC. SUPPLY AND RETURN DUCT LOCATIONS SHOWN ARE BASED ON ORIGINAL DRAWINGS, AND MAY NOT REPRESENT THE ACTUAL LOCATIONS. CONTRACTOR SHALL FIELD VERIFY EXACT DUCT LOCATIONS AND DIMENSIONS PRIOR TO ORDERING REPLACEMENT EQUIPMENT.
3. PROVIDE NEW RTAC ON EXISTING ROOF CURB. CONTRACTOR SHALL FIELD VERIFY EXISTING CURB DIMENSIONS. PROVIDE CURB ADAPTER AS REQUIRED TO TRANSITION FROM RTAC DIMENSIONS TO ROOF CURB DIMENSIONS. SEE ROOFTOP AIR CONDITIONING UNIT DETAIL.
4. INSTALL NEW HORIZONTAL WSHWP'S ACCORDING TO "HORIZONTAL WSHWP INSTALLATION DETAIL". CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS FOR EACH WSHWP AND SHALL NOT ORDER EQUIPMENT UNTIL FIELD VERIFYING THE RETURN/DISCHARGE ARRANGEMENT THAT IS MOST COMPATIBLE WITH EXISTING CONDITIONS. THE RETURN/DISCHARGE ARRANGEMENT SHOWN (FOR EXAMPLE, RIGHT RETURN/END DISCHARGE OR LEFT RETURN/END DISCHARGE) AND THE WSHWP LOCATION AND SUPPLY AND RETURN DUCT LOCATION IS BASED ON ORIGINAL CONTRACT DOCUMENTS AND IS NOT NECESSARILY THE INSTALLED RETURN/DISCHARGE ARRANGEMENT OR LOCATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DUCT AND PIPE LOCATIONS. TRANSITION FROM WSHWP SUPPLY CONNECTION TO EXISTING SUPPLY DUCT, FIELD VERIFYING EXISTING DUCT SIZE. WHERE RETURN DUCTS ARE SHOWN, TRANSITION FROM EXISTING RETURN DUCT DIMENSIONS TO NEW RETURN PLENUM. SLOPE WSHWP TO DRAIN SIDE AND INSTALL AT ELEVATION TO ALLOW PROPER CONDENSATE SLOPE TO DRAIN CONNECTION. FOR EACH NEW WSHWP, CONNECT NEW HOSE KIT TO NEW WSHWP AND CONNECT NEW HOSE KIT TO NEW LOOP SUPPLY AND RETURN PIPING ROUTED FROM WSHWP TO MAIN LOOP PIPE. SEE WSHWP HOSE KIT AND PIPING DETAIL FOR ARRANGEMENT AND HOSE KIT SIZE. TRANSITION FROM NEW HOSE KIT SIZE TO WSHWP AND LOOP PIPE SIZE. CONTRACTOR SHALL FIELD VERIFY WHICH LOOP PIPE IS SUPPLY AND WHICH PIPE IS RETURN PRIOR TO CONNECTING HOSE KITS. NEW LOOP PIPING NOT SHOWN FOR CLARITY. FOR EACH NEW WSHWP, PROVIDE NEW CONDENSATE DRAIN TRAP AS SHOWN IN CONDENSATE DRAIN TRAP DETAIL. IF NEW WSHWP IS PROVIDED WITH INTERNAL TRAP, CONTRACTOR SHALL NOT PROVIDE EXTERNAL TRAP. CONDENSATE TRAP AND PIPE SIZE SHALL BE 3/4". INSULATE NEW TRAP AND NEW PIPING WITH ARM-FLEX INSULATION. ALL CONDENSATE DRAIN PIPING SHALL BE COPPER. ROUTE CONDENSATE PIPING THRU CEILING AT WALL AND DISCHARGE INTO FLOOR DRAIN IN JANITOR'S CLOSET.
5. MOUNT NEW MAKE-UP AIR UNIT SERVING KITCHEN HOOD ATOP EXISTING ROOF CURB. PROVIDE CURB ADAPTER AS REQUIRED TO ALLOW FOR NEW UNIT INSTALLATION. PROVIDE ADDITIONAL UNIT SUPPORTS AS REQUIRED BY MANUFACTURER.
6. MOUNT NEW KITCHEN GREASE EXHAUST FAN SERVING KITCHEN HOOD ATOP NEW CURB. PROVIDE CURB ADAPTER AS REQUIRED.
7. EXISTING SUPPLY DUCT, RETURN DUCT, AND RETURN AIR PLENUM TO REMAIN.
8. NEW ROOF MOUNTED NON-POWERED OUTDOOR AIR INTAKE VENTILATOR. PROVIDE ROOF CURB ADAPTER AND MOUNT ATOP EXISTING ROOF CURB. BASIS OF DESIGN: GREENHECK MODEL # GRSH-08, 1.3 SQ. FT. INLET AREA, 0.37 SQ. FT. THROAT AREA, 60 CFM, 0.04" MAX P.D., 6X6 DAMPER WITH MOTORIZED TWO POSITION BACKDRAFT DAMPER.
9. EXISTING VVT TEMPERATURE SENSOR TO REMAIN.
10. TRANSITION/OFFSET DUCTS AS REQUIRED TO CONNECT EXISTING SUPPLY, RETURN AND OUTDOOR AIR DUCTS TO NEW UNIT.
11. EXISTING VVT DAMPER TO REMAIN.
12. EXISTING VVT BYPASS DAMPER TO REMAIN.
13. EXISTING ROOFTOP UNIT TO REMAIN.
14. NEW PIPE BOX ASSEMBLY AND ROOF CURB. SEE PIPE BOX/HOOD ASSEMBLY DETAIL.

CONTRACTOR IS ADVISED THAT MANY EXISTING ABOVE CEILING WSHWP'S ARE INSTALLED WITH LARGE LOOP PIPING, SPRINKLER PIPING, ELECTRICAL CONDUITS, ETC. THAT DO NOT ALLOW PROPER SERVICE CLEARANCE. CONTRACTOR SHALL CUSTOM FABRICATE DUCT AS REQUIRED TO CONFORM WITH EXISTING SPACE RESTRICTIONS. CONTRACTOR SHALL INSTALL NEW WSHWP'S TO ALLOW AS MUCH SERVICE CLEARANCE AS EXISTING INSTALLATION ALLOWS, AND ATTEMPT TO IMPROVE SERVICE CLEARANCE AT FILTER REMOVAL SPACE WHERE POSSIBLE.

NOTE CONCERNING EXISTING DUCT SYSTEMS:

THIS PLAN SHOWS CERTAIN PIECES OF MECHANICAL EQUIPMENT OR SYSTEMS TO BE REMOVED AND/OR REPLACED. THERE ARE EXISTING DUCT SYSTEMS ASSOCIATED WITH THIS EQUIPMENT THAT ARE NOT SHOWN ON THESE PLANS, AND THESE DUCT SYSTEMS ARE EXISTING TO REMAIN. THERE ARE ALSO OTHER DUCTWORK SYSTEMS FOR OTHER EXISTING TO REMAIN HVAC SYSTEMS THAT ARE NOT SHOWN, AND THESE SYSTEMS AND DUCT ARE EXISTING TO REMAIN.

PEBK

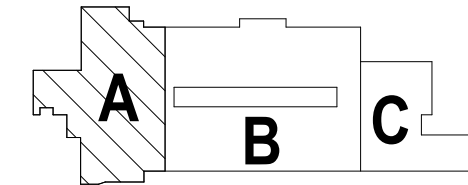
AH&P
CONSULTING
ENGINEERS

HCS Group 6-1 - HVAC Replacement
AUSTIN ROAD ELEMENTARY SCHOOL

50 AUSTIN ROAD, STOCKBRIDGE, GA 30281

CONTRACT DRAWINGS
CLIENT PROJECT NUMBER: 260013

HENRY
COUNTY SCHOOLS



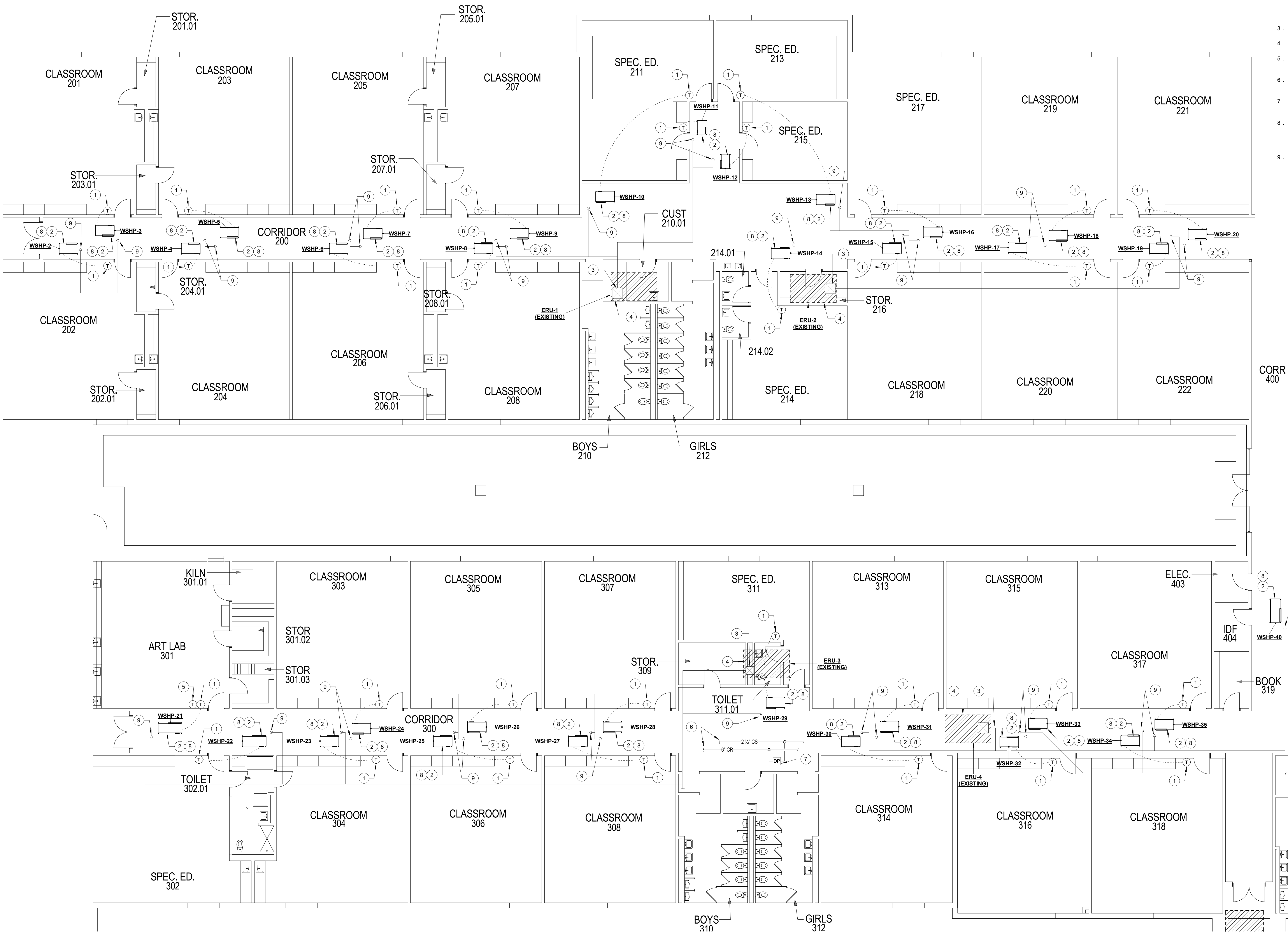
KEY PLAN



CLIENT		
HENRY COUNTY BOARD OF EDUCATION		
DATE	PROJECT NUMBER	
05 / 29 / 2026	260013	
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

MECHANICAL NEW
WORK FLOOR PLAN –
SECTOR A

M101



CONTRACTOR IS ADVISED THAT MANY EXISTING ABOVE CEILING WSHPs ARE INSTALLED WITH LARGE LOOP PIPING, SPRINKLER PIPING, ELECTRICAL CONDUITS, ETC. THAT DO NOT ALLOW PROPER SERVICE CLEARANCE. CONTRACTOR SHALL CUSTOM FABRICATE DUCT AS REQUIRED TO CONFORM WITH EXISTING SPACE RESTRICTIONS. CONTRACTOR SHALL INSTALL NEW WSHPs TO ALLOW AS MUCH SERVICE CLEARANCE AS EXISTING INSTALLATION ALLOWS, AND ATTEMPT TO IMPROVE SERVICE CLEARANCE AT FILTER REMOVAL SPACE WHERE POSSIBLE.

GENERAL NOTE: THE OUTSIDE AIR CFM SCHEDULED FOR THE WATER SOURCE HEAT PUMPS SERVED BY EXISTING ERU-1 THRU ERU-5 ARE BASED ON THE PRESUMPTION THAT THE EXISTING ERUs ARE DELIVERING THE OUTSIDE AIR CFM ORIGINALLY SCHEDULED FOR THESE UNITS AS INDICATED BELOW:

ERU-1: 1900 CFM ERU-2: 1400CFM ERU-3: 1700 CFM ERU-4: 1000 CFM ERU-5: 1200 CFM

IN THE EVENT THAT THE EXISTING ERUs CANNOT BE BALANCED TO THE INDICATED ORIGINAL OUTSIDE AIR CFM, CONTRACTOR SHALL PROPORTIONALLY BALANCE THE OUTSIDE AIR TO EACH OF THE WSHPs SERVED BY THE ERU. CONTRACTOR SHALL BALANCE THE EXISTING ERUs TO MATCH THE INDICATED AIRFLOW, OR BALANCE TO THE MAXIMUM CFM THE ERU CAN PROVIDE IF EXISTING OUTSIDE AIRFLOW IS LESS THAN THAT INDICATED FOR THE ORIGINAL DESIGN.

NOTE CONCERNING EXISTING DUCT SYSTEMS:

THIS PLAN SHOWS CERTAIN PIECES OF MECHANICAL EQUIPMENT OR SYSTEMS TO BE REMOVED AND/OR REPLACED. THERE ARE EXISTING DUCT SYSTEMS ASSOCIATED WITH THIS EQUIPMENT THAT ARE NOT SHOWN ON THESE PLANS, AND THESE DUCT SYSTEMS ARE EXISTING TO REMAIN. THERE ARE ALSO OTHER DUCTWORK SYSTEMS FOR OTHER EXISTING TO REMAIN HVAC SYSTEMS THAT ARE NOT SHOWN, AND THESE SYSTEMS AND DUCT ARE EXISTING TO REMAIN.

NOTES GENERAL: (THIS SHEET ONLY)

A. RTAC AND WSHP TAGS INCLUDE NUMBER TO DESIGNATE INDIVIDUAL UNIT, AND INCLUDES ROOM NUMBER TO INDICATE MAIN ROOM SERVED BY EQUIPMENT.

B. ALL CONTROL WORK IS BEING PERFORMED IN THIS CONTRACT BY THE OWNER'S COUNTY-WIDE CONTROL COMPANY (CONTROL CONCEPTS, INC.). INSTALLATION OF CONTROL WIRING/DDC CONTROLLERS, TEMPERATURE SENSORS, ETC., SHALL BE PERFORMED BY CONTROLS CONTRACTOR.

C. CONTRACTOR IS ADVISED THAT INSTALLED LOCATIONS OF WSHP, AND SUPPLY AND RETURN DUCT FREQUENTLY DIFFERED FROM ORIGINAL DESIGN DRAWINGS. CONTRACTOR SHALL FIELD VERIFY WSHP AND DUCT LOCATIONS PRIOR TO ORDERING WSHPs TO CONFIRM CORRECT SUPPLY / RETURN CONNECTION ARRANGEMENT.

NOTES: (THIS SHEET ONLY)

1. MOUNT NEW TEMPERATURE SENSOR IN SAME LOCATION AS SENSORS RELOCATED/REMOVED.

2. INSTALL NEW HORIZONTAL WSHPs ACCORDING TO "HORIZONTAL WSHP INSTALLATION DETAIL." CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS FOR EACH WSHP AND SHALL NOT ORDER EQUIPMENT UNTIL FIELD VERIFYING THE RETURN/DISCHARGE ARRANGEMENT THAT IS MOST COMPATIBLE WITH EXISTING CONDITIONS. THE RETURN/DISCHARGE ARRANGEMENT SHOWN (FOR EXAMPLE, RIGHT RETURN/END DISCHARGE OR LEFT RETURN/END DISCHARGE) AND THE WSHP LOCATION AND SUPPLY AND RETURN DUCT LOCATION IS BASED ON ORIGINAL CONTRACT DOCUMENTS AND IS NOT NECESSARILY THE INSTALLED RETURN/DISCHARGE ARRANGEMENT OR LOCATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DUCT AND PIPE LOCATIONS. TRANSITION FROM WSHP SUPPLY CONNECTION TO EXISTING SUPPLY DUCT, FIELD VERIFYING EXISTING DUCT SIZE. WHERE RETURN DUCTS ARE SHOWN, TRANSITION FROM EXISTING RETURN DUCT DIMENSIONS TO NEW RETURN PLENUM. SLOPE WSHP TO DRAIN SIDE AND INSTALL AT ELEVATION TO ALLOW PROPER CONDENSATE SLOPE TO DRAIN CONNECTION. FOR EACH NEW WSHP, CONNECT NEW HOSE KIT TO NEW WSHP AND CONNECT NEW HOSE KIT TO NEW LOOP SUPPLY AND RETURN PIPING ROUTED FROM WSHP TO MAIN LOOP PIPE. SEE WSHP HOSE KIT AND PIPING DETAIL FOR ARRANGEMENT AND HOSE KIT SIZE. TRANSITION FROM NEW HOSE KIT SIZE TO WSHP AND LOOP PIPE SIZE. CONTRACTOR SHALL FIELD VERIFY WHICH LOOP PIPE IS SUPPLY AND WHICH PIPE IS RETURN PRIOR TO CONNECTING HOSE KITS. NEW LOOP PIPING NOT SHOWN FOR CLARITY. FOR EACH NEW WSHP, PROVIDE NEW CONDENSATE DRAIN TRAP AS SHOWN IN CONDENSATE DRAIN TRAP DETAIL. IF NEW WSHP IS PROVIDED WITH INTERNAL TRAP, CONTRACTOR SHALL NOT PROVIDE EXTERNAL TRAP. CONDENSATE TRAP AND PIPE SIZE SHALL BE 3/4". INSULATE NEW TRAP AND NEW PIPING WITH ARMARPLEX INSULATION. ALL CONDENSATE DRAIN PIPING SHALL BE COPPER. ROUTE CONDENSATE PIPING THRU CEILING AT WALL AND DISCHARGE INTO FLOOR DRAIN IN JANITOR'S CLOSET.

3. EXISTING OUTSIDE AIR DUCTWORK TO REMAIN (TYP.).

4. EXISTING ROOF MOUNTED ENERGY RECOVERY UNIT TO REMAIN.

5. MOUNT NEW TEMPERATURE SENSOR IN SAME LOCATION AS SENSORS RELOCATED/REMOVED.

6. EXISTING CS & CR PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION, ROUTING, AND SIZE AS REQUIRED.

7. DIFFERENTIAL PRESSURE TRANSMITTER FOR CONTROL OF VFD SERVING LOOP PUMPS. SEE SPECIFICATIONS.

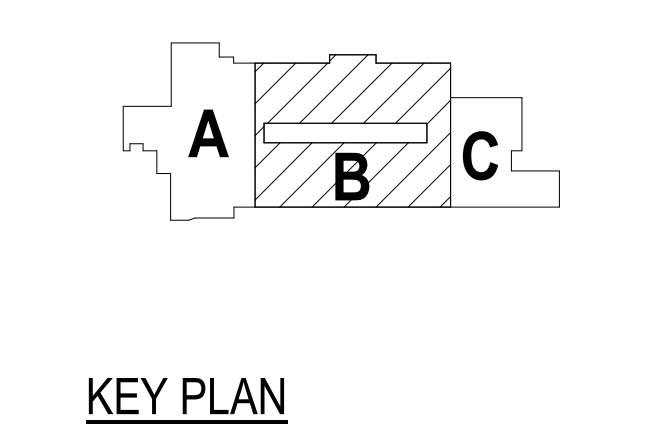
8. REINSTALL NEEDLEPOINT BIPOLAR IONIZATION UNIT (NPBIU) REMOVED DURING DEMOLITION IN NEW WATER SOURCE HEAT PUMP (WSHP). INSTALL IN LOCATION (I.E. AT FAN INLET OR IN DUCTWORK) NPBIU WAS REMOVED FROM DEMOLISHED WSHP.

9. EXISTING OUTDOOR AIR DUCT DROPS FOR CONNECTION TO EXISTING RETURN AIR DUCT OR PLENUM AT UNITS FIELD VERIFY EXACT LOCATION AND DUCT SIZE. BALANCE EXISTING MVD FOR OUTSIDE AIR QUANTITY SCHEDULED. PROVIDE NEW MVD IF EXISTING MVD IS MISSING / INOPERABLE.



HCS Group 6-1 - HVAC Replacement
AUSTIN ROAD ELEMENTARY SCHOOL
50 AUSTIN ROAD, STOCKBRIDGE, GA 30281

CONTRACT DRAWINGS
CLIENT PROJECT NUMBER: 260013



A circular professional engineer seal for the state of Georgia. The seal features the word "GEORGIA" at the top and "REGISTERED" below it. In the center, it says "No. 17029". A signature, "James A. Hendrix, Inc.", is written across the seal. Below the signature, it says "ENGINEERS" and "JAMES A. HENDRIX, INC." at the bottom.

CLIENT HENRY COUNTY BOARD OF EDUCATION		
DATE 05 / 29 / 2026	PROJECT NUMBER 260013	
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

MECHANICAL NEW WORK FLOOR PLAN – SECTOR B

M102

MECHANICAL NEW WORK FLOOR PLAN – SECTOR B
1/8" = 1'-0"

A. ALL CONTROL WORK IS BEING PERFORMED IN THIS CONTRACT BY THE OWNER'S COUNTY-WIDE CONTROL COMPANY (CONTROL CONCEPTS, INC). INSTALLATION OF CONTROL WIRING/DDC CONTROLLERS, TEMPERATURE SENSORS, ETC., SHALL BE PERFORMED BY CONTROL'S CONTRACTOR.

B. CONTRACTOR IS ADVISED THAT INSTALLED LOCATIONS OF WSHF, AND SUPPLY AND RETURN DUCT FREQUENTLY DIFFERED FROM ORIGINAL DESIGN DRAWINGS. CONTRACTOR SHALL FIELD VERIFY WSHF AND DUCT LOCATIONS PRIOR TO ORDERING WSHFS TO CONFIRM CORRECT SUPPLY / RETURN CONNECTION ARRANGEMENT.

1. MOUNT NEW TEMPERATURE/HUMIDITY SENSOR IN SAME LOCATION AS SENSORS REMOVED DURING DEMOLITION.
2. INSTALL NEW HORIZONTAL WHPSP ACCORDING TO HORIZONTAL WHPSP INSTALLATION DETAIL. CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS FOR EACH WHPSP AND SHALL NOT ASSUME ANY PERMIT INFORMATION REGARDING THE RETURN/DISCHARGE ARRANGEMENT THAT IS MOST COMPATIBLE WITH EXISTING CONDITIONS. THE RETURN/DISCHARGE ARRANGEMENT SHOWN FOR EACH WHPSP MAY BE RIGHT RETURN/DISCHARGE OR LEFT RETURN/DISCHARGE) AND THE WHPSP LOCATION AND SUPPLY AND RETURN DUCT LOCATION IS BASED ON ORIGINAL CONTRACT DOCUMENTS AND IS NOT NECESSARILY THE INSTALLED RETURN/DISCHARGE ARRANGEMENT OR CONNECTIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING DUCT AND PIPE LOCATIONS, TRANSITION FROM WHP SUPPLY CONNECTION TO EXISTING SUPPLY DUCT, FIELD VERIFY EXISTING DUCT SIZE. WHERE RETURN DUCTS ARE SHOWN, TRANSITION FROM EXISTING RETURN DUCT DIMENSIONS TO NEW RETURN PLENUM. SLOPE WHPSP TO DRAIN SIDE AND INSTALL AT ANGLE TO ALLOW PROPER CONDENSATE SLOPE TO DRAIN CONNECTION. FOR EACH NEW WHPSP, CONNECT NEW HOSE KIT TO NEW WHPSP AND CONNECT NEW HOSE KIT TO NEW LOOP SUPPLY AND RETURN PIPING. CONTRACTOR SHALL FIELD VERIFY WHPSP. SEE WHPSP HOSE KIT AND PIPING DETAIL FOR ARRANGEMENT AND CONNECTION. TRANSITION FROM EXISTING SUPPLY DUCT TO WHPSP AND LOOP PIPE SIZE. CONTRACTOR SHALL FIELD VERIFY WHICH LOOP PIPE IS SUPPLY AND WHICH PIPE IS RETURN PRIOR TO CONNECTING HOSE KITS TO WHP PIPING. NOT SHOWN FOR CLARITY. FOR EACH NEW WHPSP, PROVIDE NEW CONDENSATE DRAIN TRAP AS SHOWN IN CONDENSATE DRAIN TRAP DETAIL. IF NOT SHOWN, PROVIDE 1/2" CONDENSATE DRAIN TRAP. CONTRACTOR SHALL NOT PROVIDE EXTERNAL TRAP, CONDENSATE TRAP, OR TRAP SHALL BE PROVIDED INSIDE OF WHPSP. PROVIDE DRAIN WITH ARMAREX INSULATION. ALL NEW CONDENSATE DRAIN PIPING SHALL BE COPPER. ROUTE CONDENSATE PIPING TO DISCHARGE INTO EXISTING CONDENSATE DRAIN PIPING OR EXISTING DISPOSAL LOCATION.
3. EXISTING OUTSIDE AIR DUCTWORK TO REMAIN. FIELD VERIFY EXIST LOCATION & SIZES (TYP.).
4. EXISTING ROOF MOUNTED ENERGY RECOVERY UNIT TO REMAIN.
5. SEE SHEET M102 FOR CONTINUATION.
6. EXISTING OUTDOOR AIR DUCT DROPS FOR CONNECTION TO EXISTING RETURN AIR DUCT OR PLenum AT UNIT. FIELD VERIFY EXIST LOCATION AND SIZES (TYP.). IF AT FAN INLET OR FOR OUTSIDE AIR QUANTITY SCHEDULING, PROVIDE NEW MVV IF EXISTING MVV IS MISSED / INOPERABLE.
7. EXISTING ROOFTOP UNIT TO REMAIN.
8. EXISTING UNIT HEATER TO REMAIN.
9. EXISTING UNIT HEATER THERMOSTAT TO REMAIN.
10. INSTALL NEW PACKAGED TERMINAL HEAT PUMP IN LOCATION UNIT WAS REMOVED. SEE PACKAGED TERMINAL HEAT PUMP UNIT DETAIL.
11. EXISTING ERU RETURN DUCT TO REMAIN.
12. REINSTATE NEEDLEPOINT BIPOLAR IONIZATION UNIT (NPBUI) REMOVED DURING DEMOLITION IN NEW WATER SOURCE HEAT PUMP UNIT. INSTALL NEW NPBUI IN NEW WATER SOURCE HEAT PUMP (DUCTWORK) NPBUI WAS REMOVED FROM DEMOLISHED WHPSP.



B2011 (1995)

CONTRACTOR IS ADVISED THAT MANY EXISTING ABOVE CEILING WSHPS ARE INSTALLED WITH LARGE LOOP PIPING, SPRINKLER PIPING, ELECTRICAL CONDUITS ETC. THAT DO NOT ALLOW PROPER SERVICE CLEARANCE. CONTRACTOR SHALL CUSTOM FABRICATE DUCT AS REQUIRED TO CONFORM WITH EXISTING SPACE RESTRICTIONS. CONTRACTOR SHALL INSTALL NEW WSHPS TO ALLOW AS MUCH SERVICE CLEARANCE AS EXISTING INSTALLATION ALLOWS, AND ATTEMPT TO IMPROVE SERVICE CLEARANCE AS FILTER REMOVAL SPACE WHERE POSSIBLE.

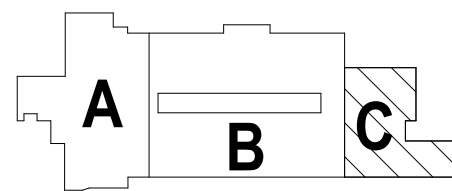
GENERAL NOTE: THE OUTSIDE AIR CFM SCHEDULED FOR THE WATER SOURCE HEAT PUMPS SERVED BY EXISTING ERU-1 THRU ERU-5 ARE BASED ON THE PRESUMPTION THAT THE EXISTING ERUs ARE DELIVERING THE OUTSIDE AIR CFM ORIGINALLY SCHEDULED FOR THESE UNITS AS INDICATED BELOW:

ERU-1: 1900 CFM ERU-2: 1400CFM ERU-3: 1700 CFM ERU-4: 1000 CFM ERU-5: 1200 CFM

IN THE EVENT THAT THE EXISTING ERUS CANNOT BE BALANCED TO THE INDICATED ORIGINAL OUTSIDE AIR CFM, CONTRACTOR SHALL PROPORTIONALLY BALANCE THE OUTSIDE AIR TO EACH OF THE WSHPS SERVED BY THE ERU. CONTRACTOR SHALL BALANCE THE EXISTING ERUS TO MATCH THE INDICATED AIRFLOW, OR BALANCE TO THE MAXIMUM CFM THE ERU CAN PROVIDE IF EXISTING OUTSIDE AIRFLOW IS LESS THAN THAT INDICATED FOR THE ORIGINAL DESIGN.

NOTE CONCERNING EXISTING DUCT SYSTEMS:

THIS PLAN SHOWS CERTAIN PIECES OF MECHANICAL EQUIPMENT OR SYSTEMS TO BE REMOVED AND/OR REPLACED. THERE ARE EXISTING DUCT SYSTEMS ASSOCIATED WITH THIS EQUIPMENT THAT ARE NOT SHOWN ON THESE PLANS, AND THESE DUCT SYSTEMS ARE EXISTING TO REMAIN. THERE ARE ALSO OTHER DUCTWORK SYSTEMS FOR OTHER EXISTING TO REMAIN HVAC SYSTEMS THAT ARE NOT SHOWN, AND THESE SYSTEMS AND DUCT ARE EXISTING TO REMAIN.



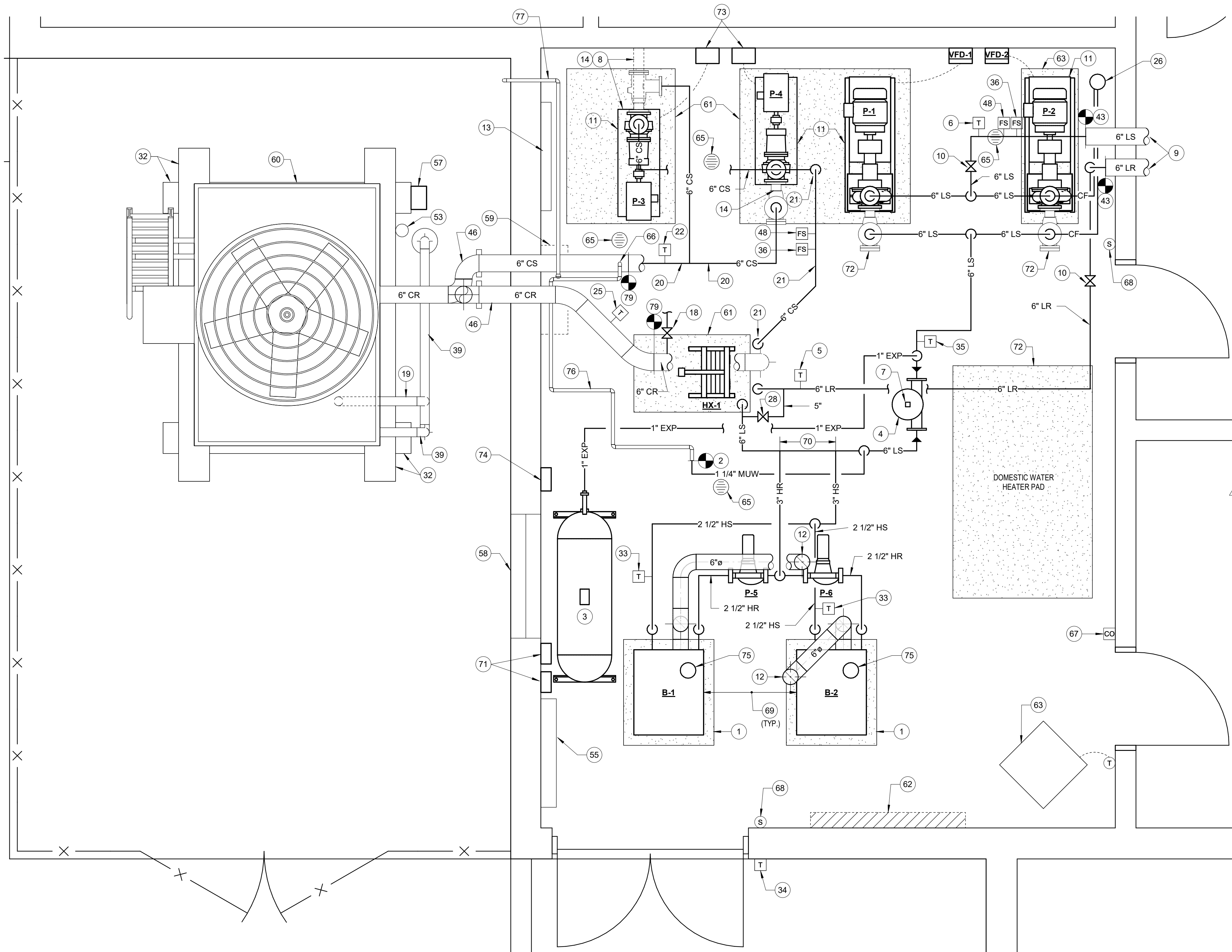
KEY PLAN



CLIENT		
HENRY COUNTY BOARD OF EDUCATION		
DATE		PROJECT NUMBER
05 / 29 / 2026		260013
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

MECHANICAL NEW WORK FLOOR PLAN – SECTOR C

M103



MECHANICAL ROOM NEW WORK FLOOR PLAN

$$\overline{1/2'' = 1'-0''}$$

PIPE FLUSHING:

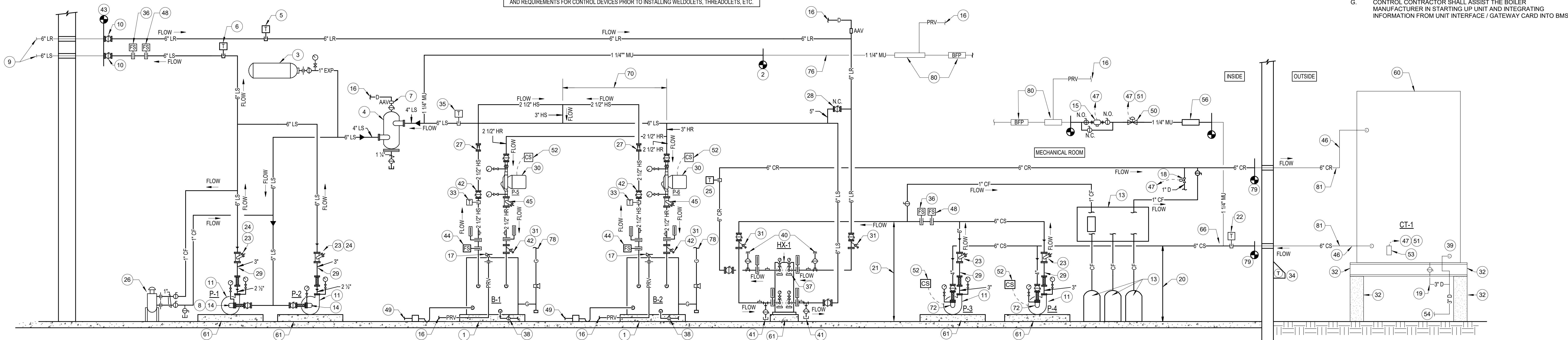
PRIOR TO COMPLETING NEW WORK, CONTRACTOR SHALL PERFORM INITIAL FLUSHING OF LOOP WATER PIPING AS DESCRIBED IN SECTION 232113 HYDRONIC PIPING.

NOTE: SEE LOOP AND COOLING WATER NEW WORK PIPING SCHEMATIC BELOW FOR MANY ITEMS NOT DETAILED ON FLOOR PLANS FOR CLARITY. ALSO, MANY PIPING COMPONENTS ARE SPECIFIED IN EQUIPMENT DETAILS THAT ARE NOT SHOWN IN THIS DRAWING. SEE EQUIPMENT DETAILS.

NOTE: GROOVED PIPING AND GROOVED FITTINGS, VALVES, ETC., ARE NOT ALLOWED.

GENERAL NOTE

CONTRACTOR SHALL PROVIDE ALL WELDOLETS, THREADOLETS, AND OTHER PIPING WORK NECESSARY FOR THE OWNER'S CONTROL COMPANY (CCI) TO INSTALL PIPE MOUNTED CONTROL DEVICES. THESE CONTROL DEVICES (e.g. PIPE MOUNTED TEMPERATURE SENSORS, FLOW SWITCHES, ETC.) ARE SHOWN ON THE MECHANICAL DRAWINGS. CONTRACTOR SHALL COORDINATE WITH CCI TO CONFIRM LOCATION AND REQUIREMENTS FOR CONTROL DEVICES PRIOR TO INSTALLING WELDOLETS, THREADOLETS, ETC.



NOTE: ALL PIPE IS 6" UNLESS NOTED OTHERWISE. ALL NEW PIPE JOINTS 2 1/2" AND LARGER IN MECHANICAL ROOM SHALL BE WELDED

LOOP AND COOLING WATER NEW WORK PIPING SCHEMATIC1

NOT TO SCALE

NOTES: (THIS SHEET ONLY)

- | | | | | | |
|-----|---|-----|--|-----|--|
| | PROVIDE NEW CONCRETE PAD BELOW EQUIPMENT. SEE FLOOR PLAN FOR EQUIPMENT PAD SIZE AND LOCATIONS. DO NOT CONFLICT WITH EXISTING CONDITIONS (E.G. PIPES). SEE SPECS FOR THICKNESS AND CONSTRUCTION. SEE CONCRETE EQUIPMENT PAD DETAIL. | | VERTICALLY FOR CLARITY, BUT THESE PUMPS SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE FLOOR PLAN, WITH THE MOTOR VERTICALLY ABOVE THE IMPELLED LIQUID. | 58. | EXISTING COMBUSTION AIR LOUVERS (2 EACH, STACKED CONFIGURATION) TO REMAIN. |
| 2. | CONNECT 1" MAKE UP WATER PIPING TO EXISTING PIPING AT THIS APPROXIMATE LOCATION REMAINING FROM DEMOLITION. | 31. | PROVIDE TEMPORARY FINE MESH START-UP SCREEN IN STRAINER. REPLACE WITH STANDARD STRAINER MESH AFTER CLEANING AND START UP OF PIPING SYSTEM. ORIENT STRAINER SO THAT BLOWDOWN VALVE AND STRAINER COVERS ARE EASILY ACCESSIBLE / REMOVABLE. | 59. | EXISTING DOMESTIC WATER ENTRANCE RISER. FIELD VERIFY EXACT LOCATION AND ARRANGEMENT. |
| 3. | HORIZONTAL BLADDER TYPE PRESSURIZED ASME STAMPED EXPANSION TANK WITH MINIMUM 34 GALLON ACCEPTANCE VOLUME AND 67 GALLON TOTAL VOLUME. PRE CHARGE TANK TO 15 PSIG. TACO MODEL #PAX 254-150. | 32. | EXISTING COOLING TOWER CONCRETE SUPPORT PIERS AND STRUCTURAL BEAMS TO REMAIN (TYP). | 60. | EXISTING COOLING TOWER AND ALL ASSOCIATED AFFURTENANCES TO REMAIN. |
| 4. | TACO MODEL #ACT-4-12S TANGENTIAL ASME STAMPED AIR SEPARATOR WITH 4" CONNECTIONS AND DRAIN. SEE AIR SEPARATOR DETAIL. MAXIMUM PRESSURE DROP THRU AIR SEPARATOR SHALL NOT EXCEED 2 FT. HEAD AT 300 GPM. MOUNT AIR SEPARATOR AS HIGH AS POSSIBLE. | 33. | HOT WATER SUPPLY TEMPERATURE SENSOR. | 61. | EXISTING CONCRETE EQUIPMENT PAD TO REMAIN. ENLARGE PAD IF NECESSARY TO ACCOMMODATE NEW EQUIPMENT INSTALLATION. |
| 5. | LOOP WATER RETURN TEMPERATURE SENSOR | 34. | OUTDOOR AIR DDC TEMPERATURE SENSOR UNDER SUN SHIELD. | 62. | EXISTING FIRE SPRINKLER MAIN TO REMAIN. |
| 6. | LOOP WATER SUPPLY TEMPERATURE SENSOR | 35. | TEMPERATURE SENSOR FURNISHED BY BOILER MANUFACTURER FOR MOUNTING IN LOOP SUPPLY PIPING FOR CONNECTION TO MASTER BOILER'S MICROPROCESSOR CONTROLLER. CONTRACTOR SHALL PROVIDE ALL REQUIRED WIRING BETWEEN SENSOR AND BOILER, AND BETWEEN MASTER BOILER AND MEMBER BOILER. MOUNT SENSOR 3' TO 5' FROM POINT WHERE HOT WATER SUPPLY CONNECTS TO LOOP SUPPLY. | 63. | EXISTING GAS FINNER UNIT HEATER TO REMAIN. |
| 7. | HIGH CAPACITY AUTOMATIC AIR VENT WITH MINIMUM 10 SCFM CAPACITY AT 15 PSIG. TACO MODEL #409. PIPE TO FLOOR DRAIN. | 36. | BACKUP FLOW SWITCH WIRED IN PARALLEL WITH PRIMARY FLOW SWITCH TO VERIFY FLOW. | 64. | EXISTING UNIT HEATER THERMOSTAT TO REMAIN. |
| 8. | ENSURE ADEQUATE SPACE IS ALLOWED FOR STRAINER REMOVAL FROM SUCTION DIFFUSER (TYPICAL). | 37. | PROVIDE ENGRAVED BAKELITE LABEL AT EACH WATER CONNECTION TO PLATE AND FRAME HEAT EXCHANGER. LABELS SHALL READ "COOLING TOWER MAKEUP WATER IN," "COOLING TOWER WATER OUT," "LOOP WATER IN," "LOOP WATER OUT." | 65. | EXISTING FLOOR DRAIN. FIELD VERIFY EXACT LOCATION. |
| 9. | EXISTING LOOP WATER PIPING CONTINUES TO SERVE WHSPS IN BUILDING. FIELD VERIFY EXACT ROUTING. | 38. | BALL VALVE AND DRAIN PIPE FOR DRAINING BOILER. | 66. | EXISTING COOLING TOWER MAKEUP WATER CONNECTION TO CS PIPING TO REMAIN. |
| 10. | NEW BUTTERFLY VALVE IN INDICATED PIPING INSIDE MECHANICAL ROOM. | 39. | EXISTING COOLING TOWER OVERFLOW PIPE ROUTED TO EXISTING DRAIN TO REMAIN. | 67. | CARBON MONOXIDE DETECTOR FOR SHUTDOWN OF BOTH BOILERS B-1 & B-2. GAS FIRED UNIT HEATER, WATER HEATER(S) AND ANY OTHER GAS FIRED EQUIPMENT IN MECHANICAL ROOM. SEE SPECS FOR ADDITIONAL INFORMATION. MOUNT 5" - 6" AFF. |
| 11. | BASE MOUNTED END SUCTIION PUMP. SEE BASE MOUNTED END SUCTIION PUMP DETAIL. | 40. | 1" BALL VALVE AND CAP (UPPER VENT) TO ALLOW MAINTENANCE PERSONNEL TO DRAIN HX-1. | 68. | BOILER EMERGENCY SHUTDOWN PUSHBUTTON SWITCH FOR SHUTDOWN OF BOTH BOILERS B-1 AND B-2. SWITON SHALL BE RE-MUSHROOM HEAD TYPE PUSH OFF AND RESET BY PULLING AGAIN. (ISO-4000 KRSR50 WITH #9001 KHS MODULE AND #FF900 K&M CONTACT BL 0004) PROVIDE BAKELITE LABEL ENGRAVED AS FOLLOWS: "BOILER EMERGENCY SHUTDOWN". |
| 12. | 6" DOUBLE-WALL TYPE AL-204C FLUE RISES FROM BOILER OFFSET FLUE AS REQUIRED TO MISS PIPING. ROUTE NEW FLUES UP THRU EXISTING ROOF OPENING AND CURB. CONTRACTOR SHALL PATCH AROUND BOTTOM OF EXISTING BOILER FLUE WITH 22 GAUGE STEEL METAL AND SEAL WATERIGHT. SEE FLUE THRU ROOF DETAIL. IN THE EVENT CONTRACTOR CANT REUSE EXISTING ROOF OPENING, PATCH EXISTING OPENING AND PROVIDE NEW ROOF CURB AND NEW FLUE PENETRATION THRU ROOF. | 41. | PROVIDE 1" BALL VALVE WITH HOSE CONNECTION AND CAP. DRAIN SHALL BE USED FOR MAINTENANCE FOR DRAINING EQUIPMENT DURING SERVICING. | 69. | MAINTAIN 3" CLEAR FROM EDGE OF BOILER TO PUMPS, WALLS, OTHER BOILERS, ETC. (TYPICAL). DO NOT OBSTRUCT ACCESS PANELS WITH PIPING OR CONDUT. |
| 13. | COOLING WATER CHEMICAL TREATMENT TANKS (2 BIOCIDIE AND 1 CORROSION INHIBITOR) AND WALL MOUNTED CONTROLLER. SEE COOLING WATER CHEMICAL TREATMENT PIPING DETAIL. SEE PLUMBING PLANS FOR CONTINUATION. | 42. | BOILER SUPPLY SHUTOFF VALVE AND Y-STRAINER SHALL BE IN VERTICAL PIPE RISE AS CLOSE TO BOILER AS POSSIBLE TO ALLOW EASE OF MAINTENANCE. | 70. | PROVIDE 24" BETWEEN CENTERLINE OF HOT RETURN AND HOT SUPPLY FROM LOOP MAIN TO MAINTAIN PRIMARY / SECONDARY FLOW AND TO PREVENT RECIRCULATING HOT SUPPLY INTO HOT RETURN. |
| 14. | SUCTION DIFFUSER WITH SUPPORT FOOT, STRAINER, AND MAGNET. PROVIDE TEMPORARY FINE MESH STRAINER DURING START UP. (TACO MODEL #SD000306-S) WITH 8" SYSTEM CONNECTION, 3" PUMP CONNECTION. | 43. | NEW 6" LS & LR PIPE CONNECTS TO EXISTING 6" LS &LR PIPING AT THIS APPROXIMATE LOCATION. | 71. | NEW MOTOR STARTERS AND DISCONNECT, BY ELECTRICAL, TO SERVE HEATING WATER PUMPS P-5 & P-6. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION. |
| 15. | WATER METER WITH GPM OUTPUT SIGNAL TO COOLING TOWER CHEMICAL TREATMENT PANEL. | 44. | PROVIDE FIELD MOUNTED FLOW SWITCH FURNISHED BY BOILER MANUFACTURER TO PROVE FLOW THROUGH BOILER. | 72. | SUCTION DIFFUSER WITH SUPPORT FOOT, STRAINER, AND MAGNET. PROVIDE TEMPORARY FINE MESH STRAINER DURING START UP. (TACO MODEL #SD000406-S) WITH 8" SYSTEM CONNECTION, 4" PUMP CONNECTION. |
| 16. | ROUTE ALL DRAIN AND PRESSURE RELIEF VALVE PIPING TO NEAREST FLOOR DRAIN. FIELD VERIFY EXACT DRAIN LOCATION. DO NOT ROUTE PIPING IN LOCATIONS THAT INTERFERES WITH SERVICE ACCESS. | 45. | 2 1/2" TRIPLE UTILITY VALVE. TACO MODEL #MPV-025, MOUNTED IN HORIZONTAL POSITION WITH STEM UP." | 73. | NEW MOTOR STARTERS AND DISCONNECTS BY ELECTRICAL TO SERVE COOLING WATER PUMPS. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION. |
| 17. | ASME PRESSURE RELIEF VALVE WITH FULL, SIZE DISCHARGE PIPING TO NEAREST FLOOR DRAIN. PROVIDE 50 PSIGE PRESSURE RELIEF VALVE. | 46. | CONTRACTOR SHALL ENSURE ALL EXTERIOR COOLING WATER SUPPLY AND RETURN PIPING IS PROPERLY HEAT TAPEDED, INSULATED AND JACKETED AND THAT HEAT TAPE OPERATES PROPERLY. REPAIR ANY HEAT TAPE, INSULATION, JACKETING, ETC. THAT NEEDS REPAIR. | 74. | EXISTING COOLING TOWER FAN MOTOR VFD TO REMAIN. |
| 18. | DIAPHRAGM TYPE 2-WAY, 2-POSITION BLEED SOLENOID VALVE. | 47. | MECHANICAL CONTRACTOR SHALL INSTALL WIRING FROM CONTROLLERS TO SOLENOID/BLOWDOWN VALVES AND WATER METER AND WATER LEVEL CONTROLLER. | 75. | COMBUSTION AIR INTAKE AT BOILER. |
| 19. | EXISTING COOLING TOWER DISCHARGE DRAIN PIPING TO REMAIN. | 48. | PRIMARY PADOLE TYPE FLOW SWITCH TO VERIFY FLOW. | 76. | EXISTING MAKEUP WATER PIPING FOR LOOP SUPPLY/RETURN SYSTEM TO REMAIN. |
| 20. | MAINTAIN ALL PUMP SUCTIION PIPING AS LOW AS POSSIBLE TO INSURE FLOODED SECTION OF COOLING WATER PUMPS. DO NOT EXCEED EXISTING HEIGHT. | 49. | ROUTE CONDENSATE DRAIN LINE FROM BOILER VENT SYSTEM AND FROM BOILER DRAIN THRU SCHEDULE 40 PVC PIPING AND THEN THRU CONDENSATE ACID NEUTRALIZER KIT (BY BOILER MANUFACTURER) PRIOR TO DISCHARGING INTO FLOOR DRAIN. FIELD VERIFY FLOOR DRAIN LOCATION. DO NOT DISCHARGE DIRECTLY INTO FLOOR DRAIN. | 77. | EXISTINGS HOW BIBB PIPING TO REMAIN. |
| 21. | MOUNT COOLING SUPPLY PUMP DISCHARGE TO DROP AT HEAT EXCHANGER AS LOW AS POSSIBLE (BUT NOT LESS THAN 6" AFF.) TO ALLOW MAINTENANCE ACCESS TO COOLING WATER PUMPS. | 50. | PROVIDE SLOW CLOSING ELECTRONIC MAKE UP WATER VALVE IN PIPE IF EXISTING VALVE IS IMPERFABLE OR MISSING. | 78. | SEE PLUMBING DRAWINGS FOR CONTINUATION. |
| 22. | COOLING WATER SUPPLY TEMPERATURE SENSOR. | 51. | ROUTE WIRING IN CONDUIT FROM SLOW CLOSING MAKE UP WATER VALVE TO ELECTRONIC WATER LEVEL CONTROLLER AT COOLING TOWER. | 79. | CONNECT NEW 6" CS OR CR PIPING (AS INDICATED) TO EXISTING AT THIS APPROXIMATE LOCATION REMAINING FROM DEMOLITION. |
| 23. | 3" TRIPLE UTILITY VALVE. TACO MODEL #MPV-030. | 52. | CURRENT SENSOR BY CONTROL CONTRACTOR TO CONFIRM MOTOREQUIPMENT OPERATION. | 80. | EXISTING MAKEUP WATER STATION AND BACKFLOW PREVENTER TO REMAIN. FIELD VERIFY EXACT LOCATION & ARRANGEMENT. |
| 24. | CONTRACTOR SHALL FULLY OPEN TRIPLE UTILITY VALVE ON LOOP PUMPS P-1 AND P-2 SINCE VALVE IS NOT USED FOR BALANCING PURPOSES. | 53. | EXISTING ELECTRONIC WATER LEVEL CONTROLLER TO REMAIN. ENSURE CONTROLLER IS PROPERLY HEAT TAPEDED FOR FREEZE PROTECTION OF CONTROLLER AS REQUIRED BY MANUFACTURER. | 81. | EXISTING 6" CS OR CR PIPING (AS INDICATED) TO REMAIN. |
| 25. | COOLING WATER RETURN TEMPERATURE SENSOR. | 54. | EXISTING 3" OVERFLOW AND BASIN DRAIN DISCHARGING INTO EXISTING DRAIN TO REMAIN. | | |
| 26. | ONE SHOT CHEMICAL FEEDER. SEE ONE SHOT CHEMICAL FEED SYSTEM DETAIL. | 55. | EXISTING DDC CONTROL PANEL. CONTROL CONTRACTOR SHALL MODIFY COMPONENTS AS REQUIRED TO ACHIEVE SPECIFIED SEQUENCE OF CONTROL. | | |
| 27. | 2 1/2" WAFFER-SYTEL AUTOMATIC FLOW CONTROL VALVE TO MAINTAIN CONSTANT 48 GPM THRU BOILER. | 56. | 1" SENSUS IPERL WATER METER FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR FOR HENRY COUNTY WATER AND SEWER AUTHORITY (HCVSA) FOR REDUCING SEWAGE RATE FOR COOLING TOWER MAKE UP. USE TO VERIFY FLOW. (CONTACT 1-800-638-3748). CONTRACTOR TO VERIFY WHETHER IPERL WATER METER CURRENTLY INSTALLED. IF SO, NEW WATER METER NOT REQUIRED BUT CONTRACTOR SHALL VERIFY OPERATION. | | |
| 28. | LOOP WATER BYPASS PIPE AND BUTTERFLY VALVE FOR ISOLATING HEAT EXCHANGER DURING FLUSHING. | 57. | EXISTING BASIN HEATER CONTROL PANEL MOUNTED ON SUPPORT PIER TO REMAIN. | | |
| 29. | PROVIDE "SPool PIECE" BETWEEN FLEXIBLE PIPE CONNECTOR AND TRIPLE UTILITY VALVE (OR PROVIDED REDUCING ELBOW, AS REQUIRED). | | | | |

NOTES GENERAL: (THIS SHEET ONLY)

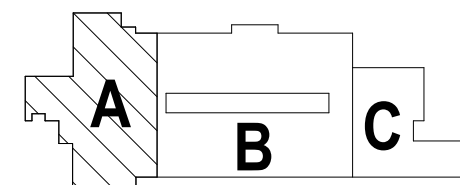
- A. MECHANICAL ROOM PIPING SYSTEMS SHALL BE ISOLATED, FLUSHED, AND PRESSURE TESTED PRIOR TO CONNECTION TO THE LOOP PIPING SYSTEM. SEE SPECIFICATIONS FOR MORE INFORMATION.
 - B. PAINT ALL LOOP SUPPLY AND RETURN PIPING AND COOLING WATER SUPPLY AND RETURN PIPING INSIDE MECHANICAL ROOM. LOOP SUPPLY SHALL BE DARK GREEN. LOOP RETURN SHALL BE LIGHT GREEN. COOLING SUPPLY PIPING SHALL BE DARK BLUE AND COOLING RETURN PIPING SHALL BE LIGHT BLUE. PROVIDE PIPE LABELS ON ALL PIPES SPECIFIED.
 - C. ALL CONTROL WORK IS BEING PERFORMED IN THIS CONTRACT BY THE OWNERS CONTROL COMPANY (RELIABLE/ENERGY). INSTALLATION OF WIRING, SENSING, AND CONTROL DEVICES BY MOUNTED TEMPERATURE SENSORS, ETC., SHALL BE PERFORMED BY CONTROLS CONTRACTOR.
 - D. MAINTAIN MINIMUM 24" BETWEEN PUMPS, AND WALLS ON LONG DIMENSION, AND 24" BETWEEN PUMPS AND OTHER PUMPS AND HEAT EXCHANGERS ON LONG DIMENSION.
 - E. ROUTE ALL DRAIN AND PRESSURE RELIEF VALVE PIPING TO NEAREST DRAIN OR DRAINAGE PIPING. PROVIDE DRAIN LOCATION. DO NOT ROUTE PIPING IN LOCATIONS THAT INTERFERES WITH SERVICE ACCESS.
 - F. PROVIDE NEW CONCRETE PADS BELOW ALL NEW EQUIPMENT PUMPS, BOILERS, HEAT EXCHANGER; PADS ARE NOT SHOWN ON DRAWING FOR CLARITY. PROVIDE INDIVIDUAL PAD FOR EACH PIECE OF EQUIPMENT OR CONTRACTOR MAY PROVIDE A SINGLE PAD FOR MULTIPLE PIECE OF EQUIPMENT IF PADS DO NOT INTERFERE WITH EXISTING EQUIPMENT OR EXISTING OPERATING CONDITIONS (E.G. PIPE). SEE SPECS FOR THICKNESS AND CONSTRUCTION. SEE CONCRETE EQUIPMENT PAD DETAIL.
- CONTROL CONTRACTOR SHALL ASSIST THE BOILER CONTRACTOR IN STATING THE LOCATION OF THE EXISTING INFORMATION FROM UNIT INTERFACE / GATEWAY CARD INTO BMS

**HCS Group 6-1 - HVAC Replacement
AUSTIN ROAD ELEMENTARY SCHOOL**

550 AUSTIN ROAD, STOCKBRIDGE, GA 30281

CONTRACT DRAWINGS

CLIENT PROJECT NUMBER: 260013



KEY PLAN



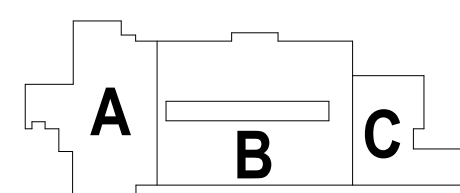
CLIENT		
HENRY COUNTY BOARD OF EDUCATION		
DATE	PROJECT NUMBER	
05 / 29 / 2026	260013	
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

CHECKED BY: WMH

DRAWN BY: BCS

MECHANICAL ROOM NEW WORK FLOOR PLAN & PIPING SCHEMATIC

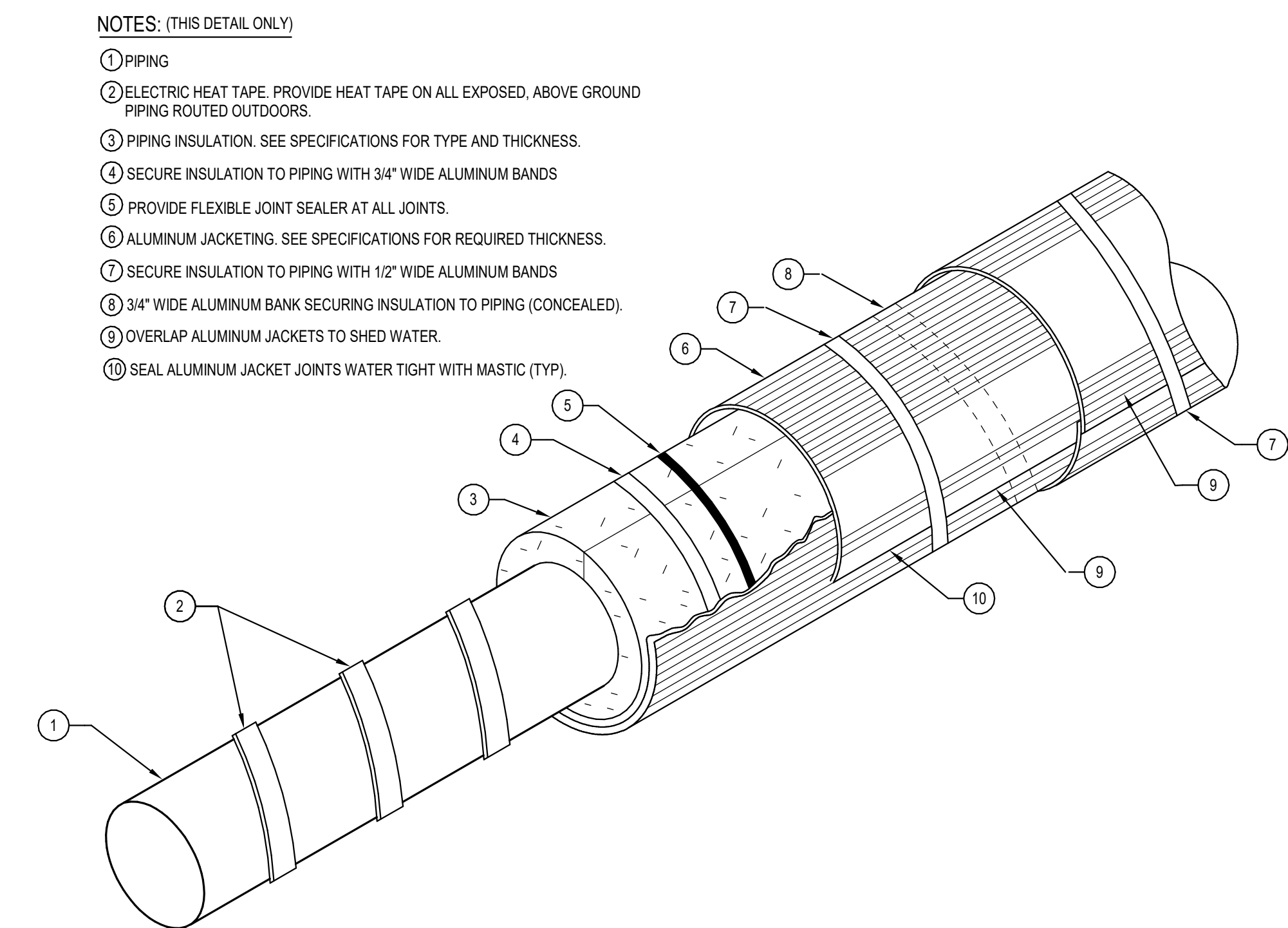
M301



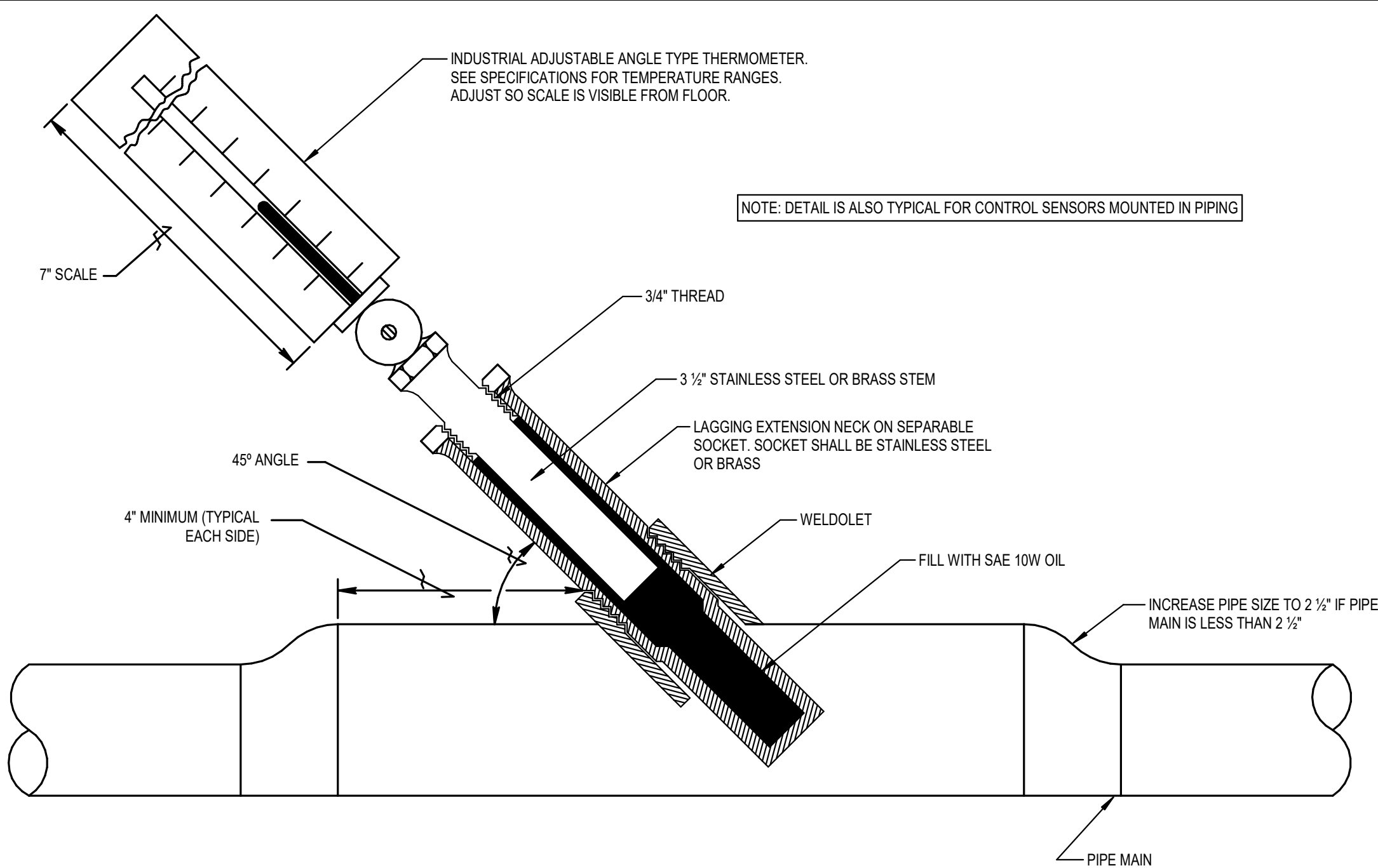
KEY PLAN



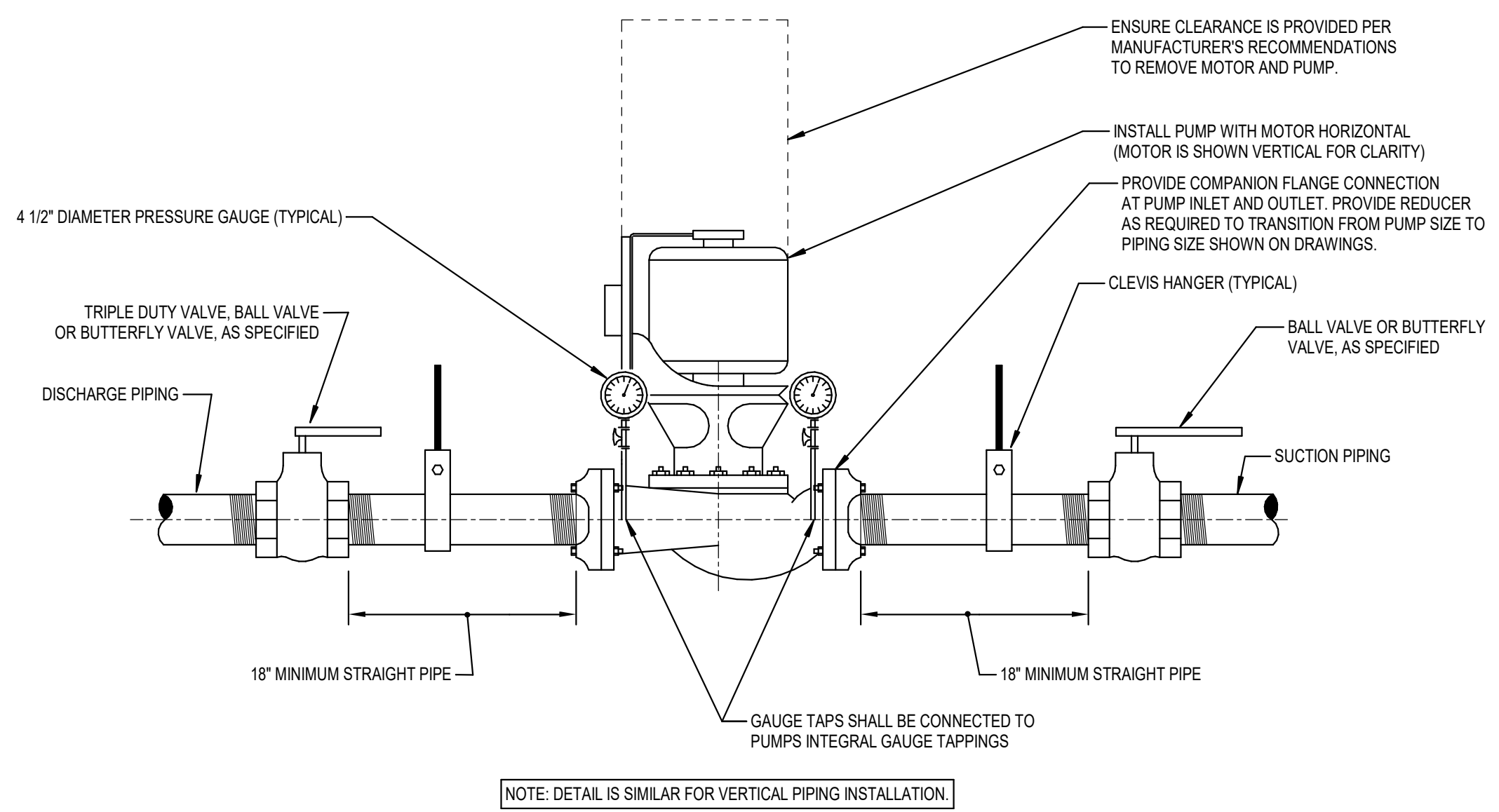
CLIENT		
HENRY COUNTY BOARD OF EDUCATION		
DATE		PROJECT NUMBER
05 / 29 / 2026		260013
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		



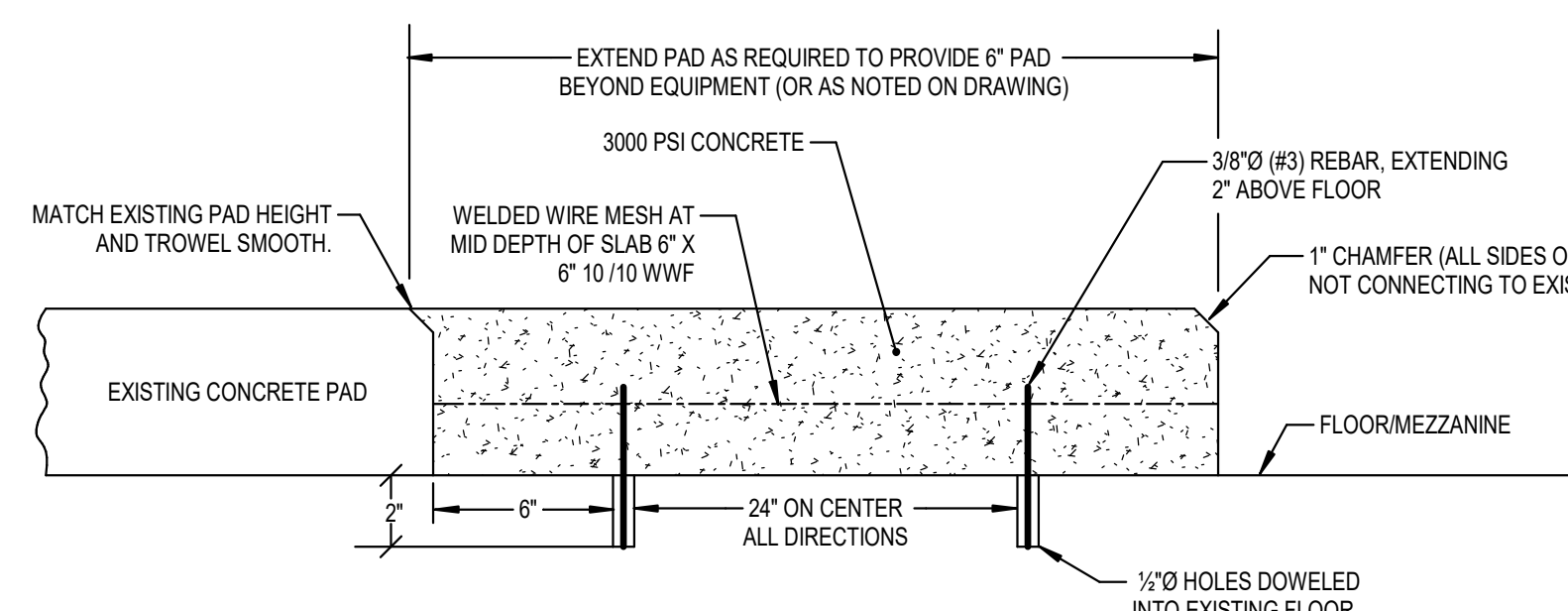
EXTERIOR ABOVE GRADE PIPING INSULATION DETAIL
NOT TO SCALE



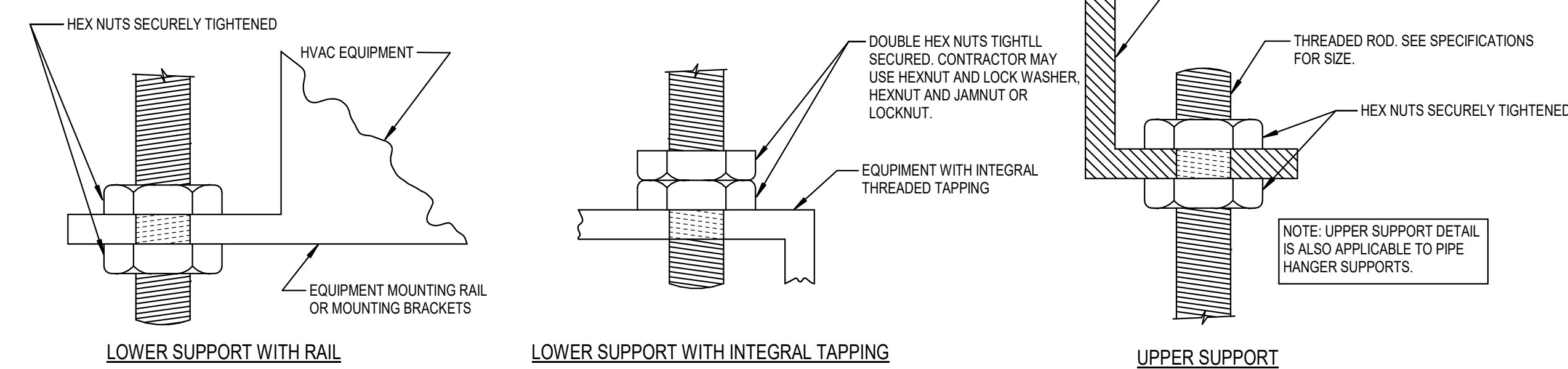
THERMOMETER DETAIL
NOT TO SCALE



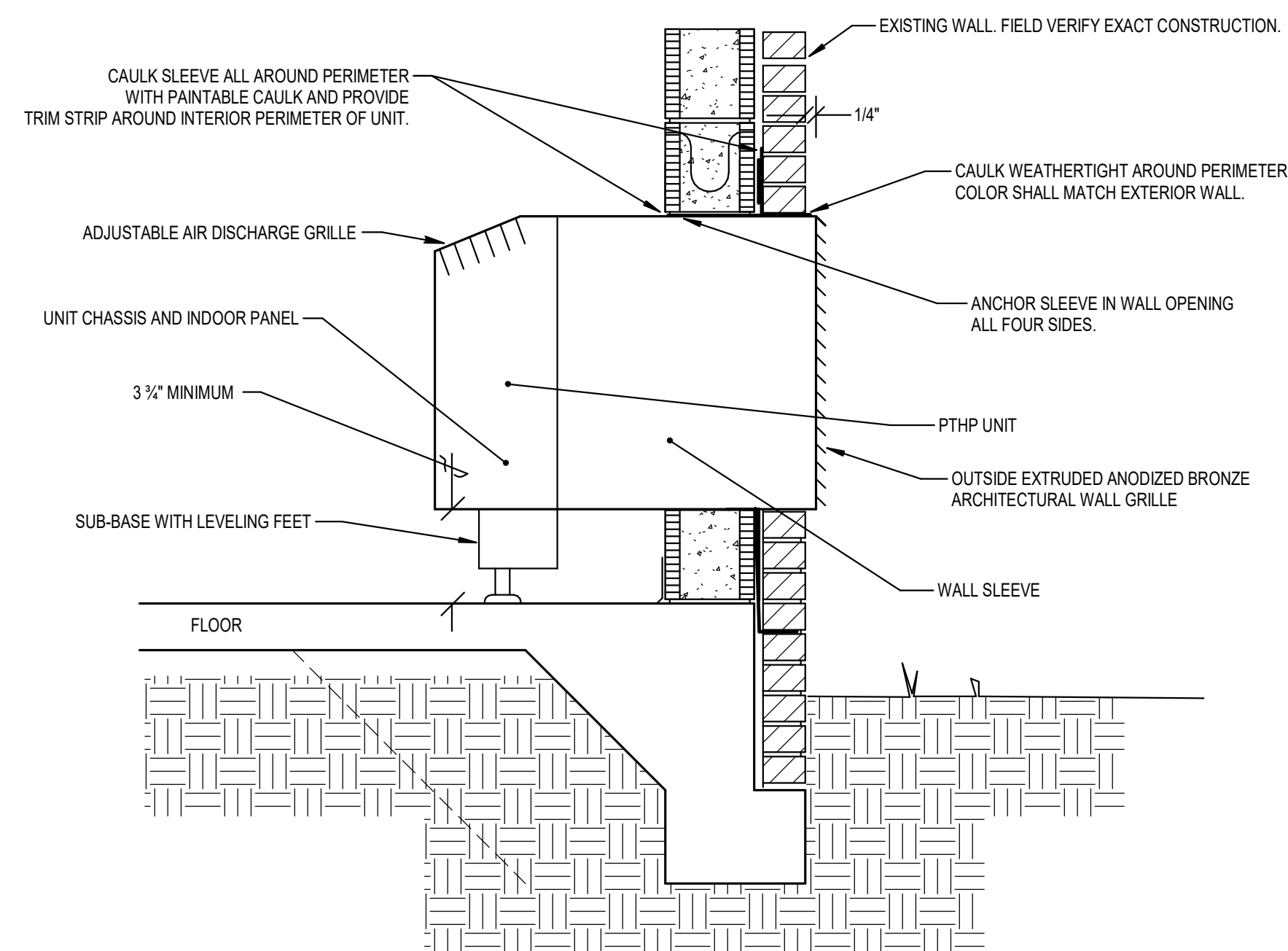
INLINE PUMP DETAIL
NOT TO SCALE



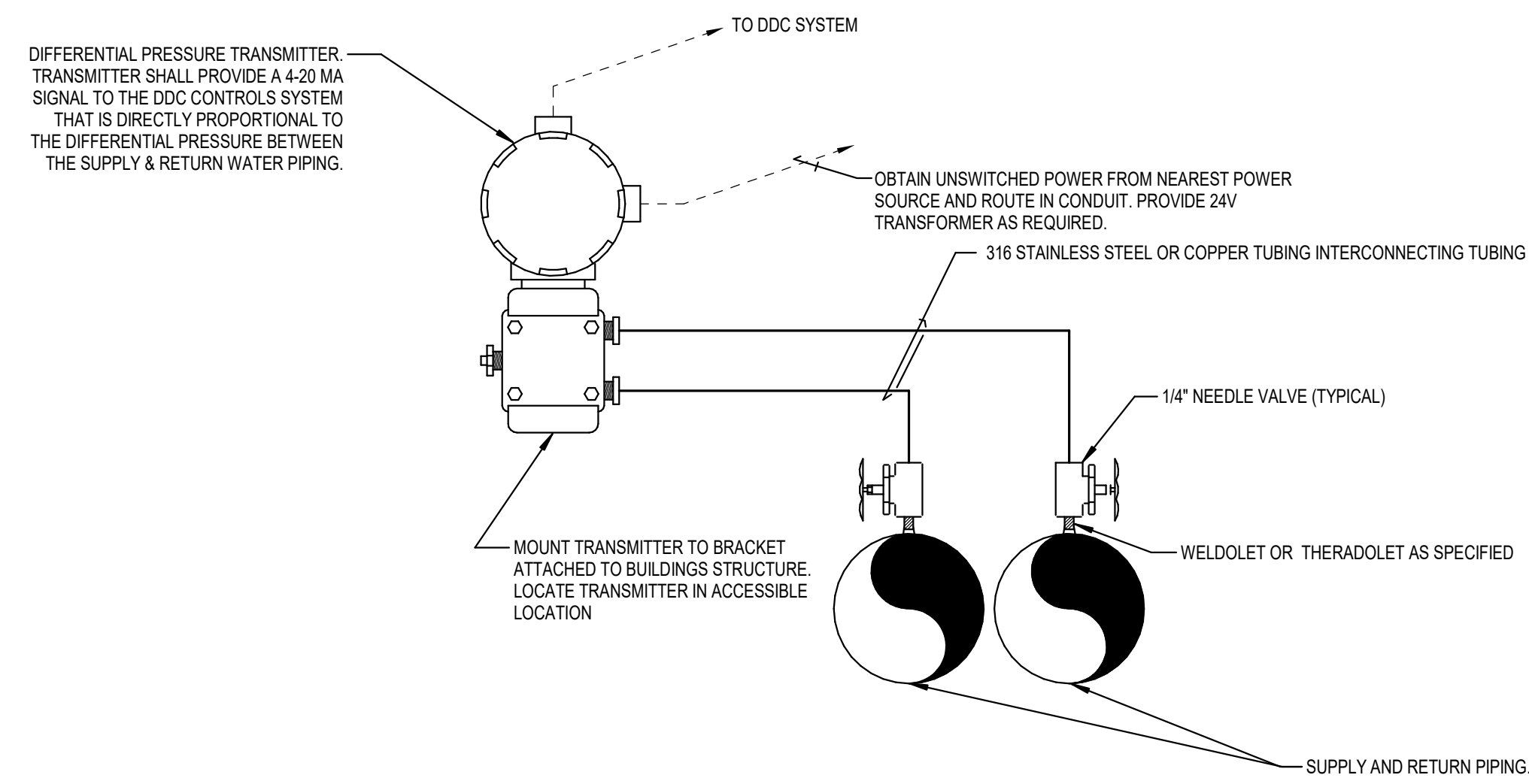
CONCRETE EQUIPMENT PAD EXTENSION DETAIL
NOT TO SCALE



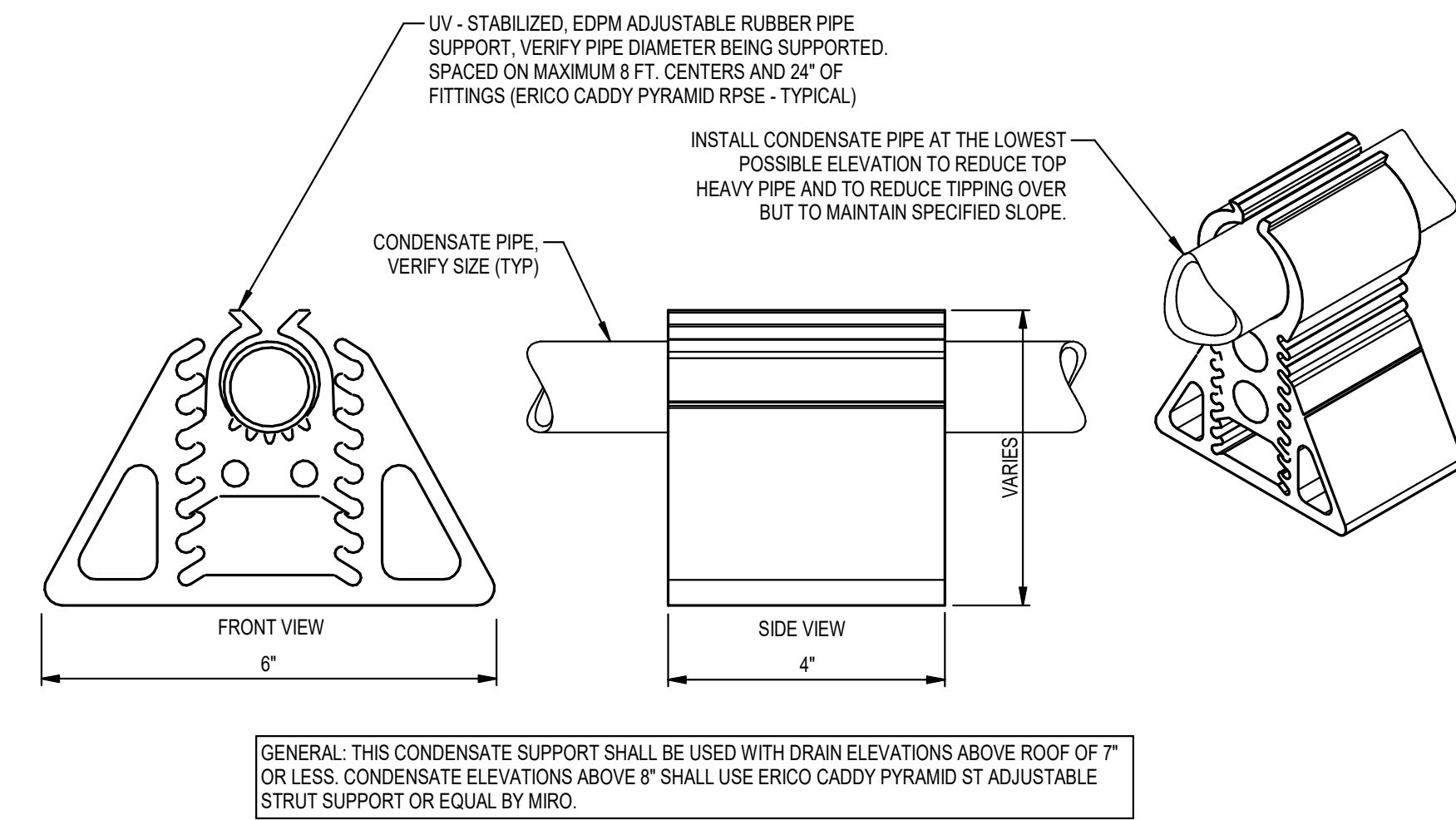
SUSPENDED EQUIPMENT SUPPORT DETAIL
NOT TO SCALE



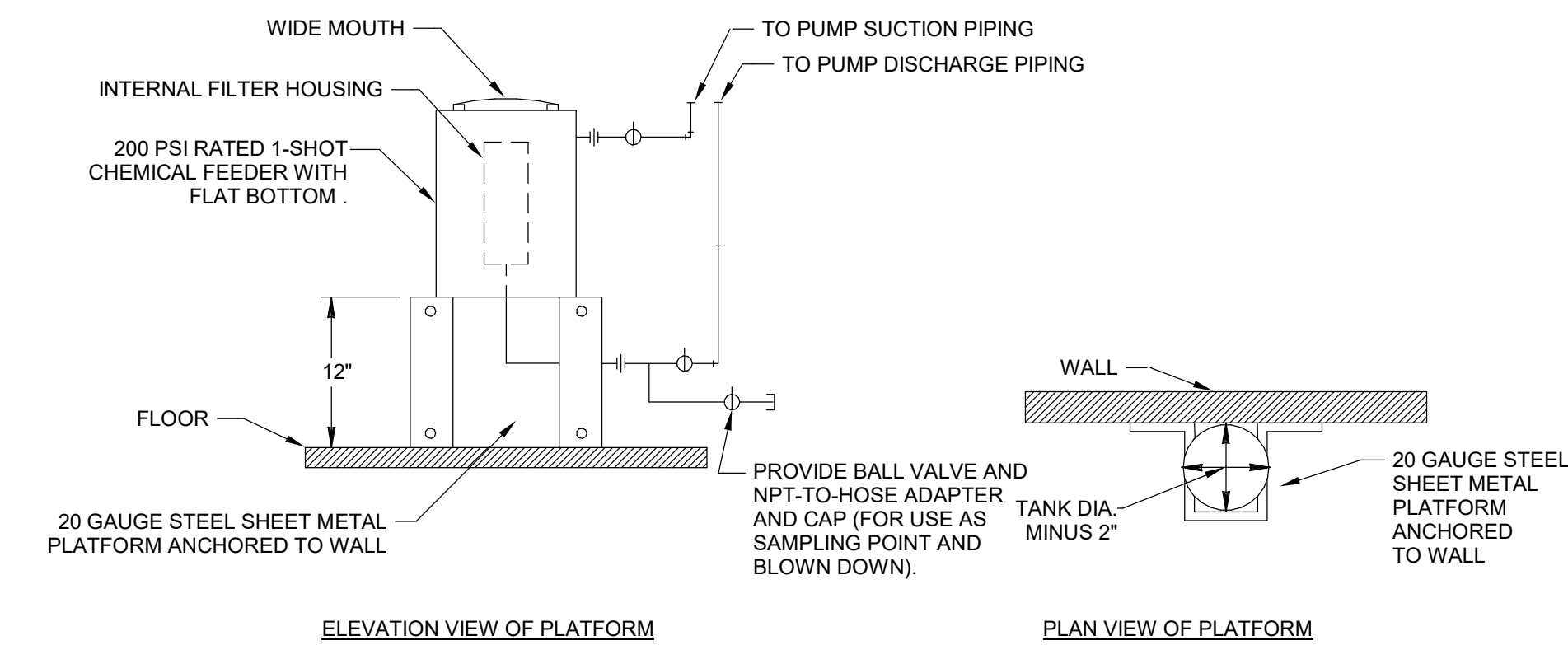
PACKAGED TERMINAL HEAT PUMP DETAIL
NOT TO SCALE



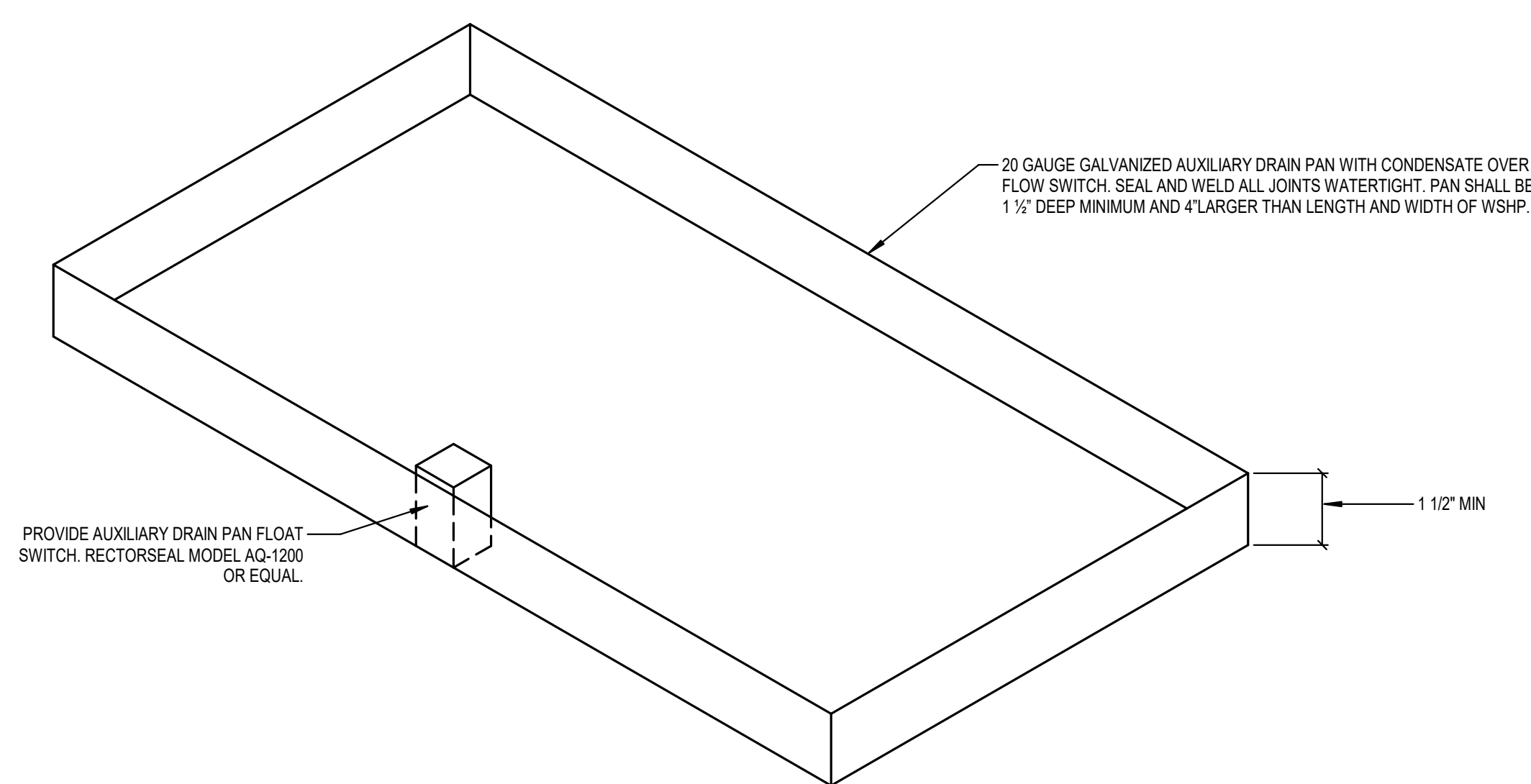
DIFFERENTIAL PRESSURE TRANSMITTER DETAIL
NOT-TO SCALE



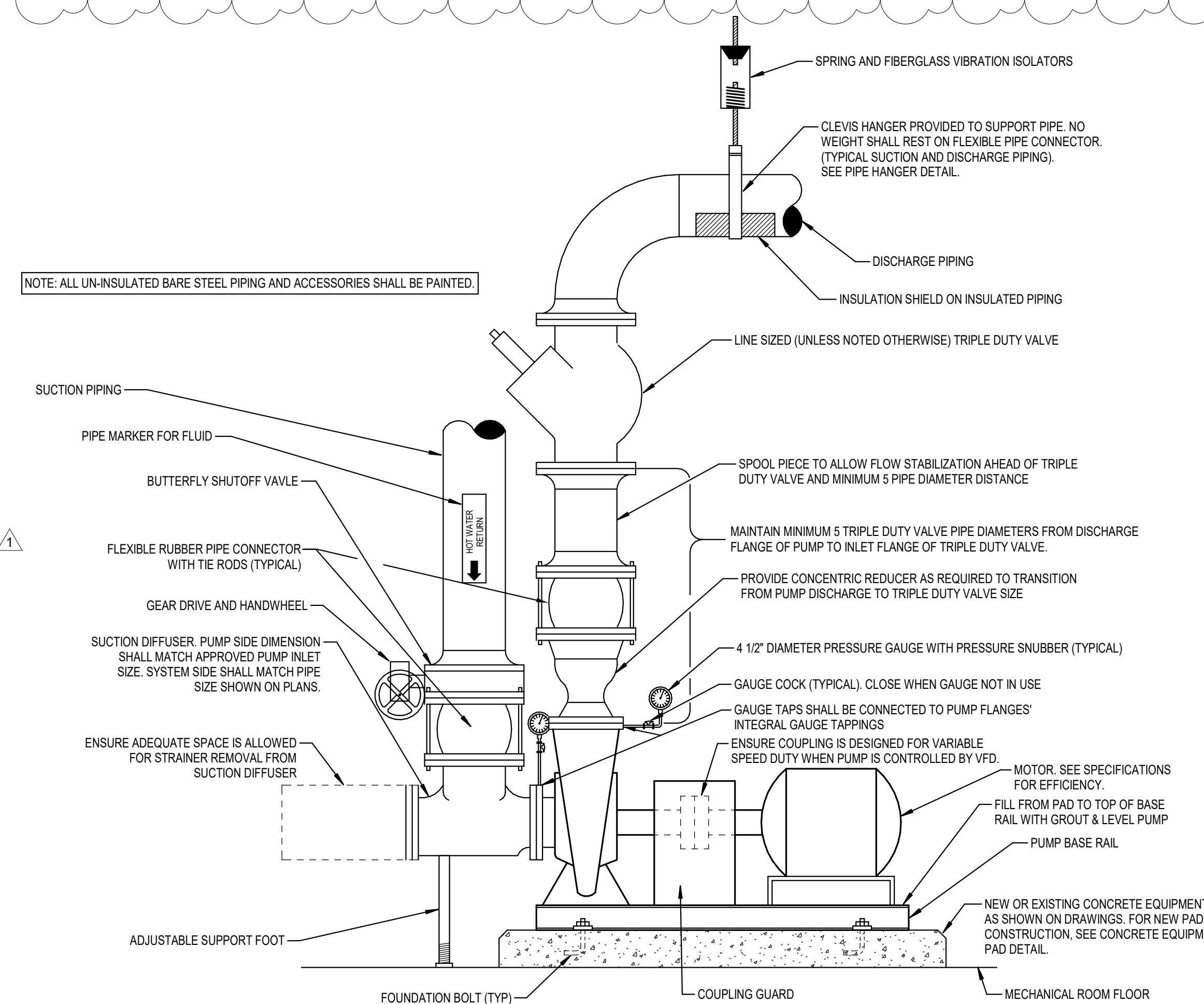
CONDENSATE PIPE SUPPORT ON ROOF DETAIL
NOT TO SCALE



ONE SHOT CHEMICAL FEED SYSTEM DETAIL
NOT TO SCALE



WSHP AUXILIARY DRAIN PAN DETAIL
NOT TO SCALE



BASE MOUNTED END SUCTION PUMP DETAIL
NOT TO SCALE

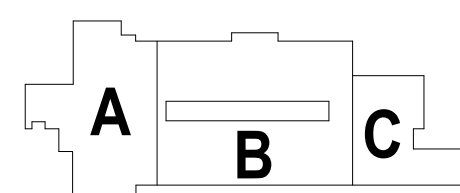


**HCS Group 6-1 - HVAC Replacement
AUSTIN ROAD ELEMENTARY SCHOOL**

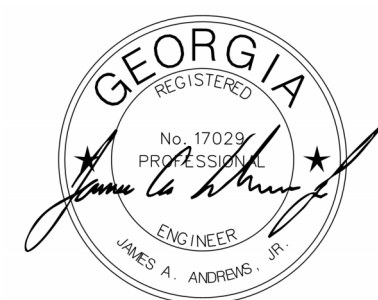
50 AUSTIN ROAD, STOCKBRIDGE, GA 30281

CONTRACT DRAWINGS

CLIENT PROJECT NUMBER: 260013



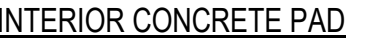
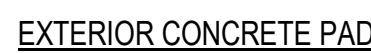
KEY PLAN



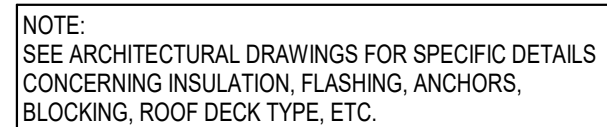
CHECKED BY: WMH
DRAWN BY: BCS

MECHANICAL DETAILS

M503



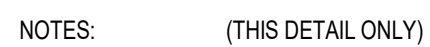
CONCRETE EQUIPMENT PAD DETAIL
NOT TO SCALE



ROOFED-IN CURB EXTENSION DETAIL
NOT TO SCALE

ROOFED-IN CURB EXTENSION NOTES:

- 1 PROVIDE MINIMUM 18 GAUGE GALVANIZED CONSTRUCTION FULLY WELDED.
- 2 PROVIDE WOOD MATERIAL.
- 3 PROVIDE 1", 15 LB INSULATION (FULLY INSULATED).
- 4 PROVIDE MINIMUM 8" ROOF-IN CURB EXTENSIONS.
- 5 CURB EXTENSION SHALL BE BY ALUMINUM SHEET METAL OR MGM. CONTRACTOR IS NOT ALLOWED TO FABRICATE. CURB MANUFACTURER SHALL VISIT JOB SITE AND FIELD MEASURE AND ACQUIRE EXISTING EQUIPMENT MODEL NUMBER INFORMATION ON ALL ROOF EQUIPMENT THAT IS SPECIFIED WITH A CURB EXTENSION. EXISTING BASE CURBS AND DUCTS SHALL BE EXTENDED WITH FACTORY EXTENSION TO EXISTING BASE CURB AND EXISTING CURB EXTENSIONS ARE BEING ADDED TO RAISE TOP OF CURB TO MINIMUM 14" ABOVE ROOF SURFACE. CURB EXTENSION MAY BE REQUIRED ONCE CURBS ARE DUCTED TO ALLOW NEW EQUIPMENT TO SIT ATOP EXISTING CURBS.



- ① CONTROLLER
- ② CHEMICAL PUMPS
- ③ BLEED SOLENOID
- ④ WATER METER
- ⑤ FLOW ASSEMBLY
- ⑥ ELECTRONIC WATER LEVEL CONTROLLER
- ⑦ SLOW CLOSING AND OPENING MAKE UP SOLENOID WATER VALVE
- ⑧ CORROSION INHIBITOR AND BIOCIDE TANKS
- ⑨ CONNECT NEW MU PIPE TO EXISTING COOLING WATER PIPING INSIDE BUILDING. SEE PLANS FOR LOCATION AND MU PIPE SIZE.
- ⑩ CONNECT NEW MU LINE AND NEW BALL VALVE PAST WATER METER AND ROUTE AS SHOWN. SEE PLANS FOR LOCATION AND MU PIPE SIZE.

COOLING WATER CHEMICAL TREATMENT PIPING DETAIL
NOT TO SCALE



ROOFTOP AIR CONDITIONING UNITS

TAG	CARRIER MODEL NUMBER	TOTAL COOLING CAPACITY (MBH)	SENSIBLE COOLING CAPACITY (MBH)	TOTAL SUPPLY AIRFLOW (CFM)	O.A. CFM	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	APPROX. E.S.P. (IN.W.G.)	SUPPLY FAN HP	MIN STAGES	ENTERING AIR TEMPERATURE		MINIMUM AMBIENT COOLING TEMP	NOTES:	EXISTING VOLTAGE/PHASE *	
											COOL	HEAT	DB	WB		
RTAC-1	48FESN12A	125.8	96.2	4000	600	180.0	148.0	0.80	2.72 BHP	2	2	80.0	67.0	25	1 THRU 17	460 / 3
RTAC-2 (EXISTING)																
RTAC-3	48GERN06A	61.7	45.9	1950	290	110.0	88.0	0.60	0.94 BHP	2	2	80.0	67.0	25	1 THRU 17	460 / 3
RTAC-4	48FEDY30A	315.0	212.9	9000	1350	220.0	178.0	1.0	4.77 BHP	2	2	80.0	67.0	25	1 THRU 17	460 / 3
RTAC-5	48FEDY30A	315.0	212.9	9000	1350	220.0	178.0	1.0	4.77 BHP	2	2	80.0	67.0	25	1 THRU 17	460 / 3
* EXISTING VOLTAGES SHOWN ARE BASED ON ORIGINAL ELECTRICAL DRAWINGS AND SHALL BE FIELD VERIFIED AT CIRCUIT BREAKER AND COORDINATED WITH ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING.																
1. COOLING CAPACITIES ARE GROSS VALUES BASED ON AIR ENTERING EVAPORATOR AT SCHEDULED CONDITIONS AND 95° AMBIENT AIR TEMPERATURE AND 1000 FT. ELEVATION. UNIT SHALL PROVIDE MECHANICAL COOLING DOWN TO SCHEDULED TEMPERATURE. PROVIDE LOW AMBIENT OPTIONS AS REQUIRED TO ACHIEVE SCHEDULED TEMPERATURES.																
2. HEATING CAPACITY BASED ON 60°F AIR ENTERING HEAT EXCHANGER AND FIRING NATURAL GAS. PROVIDE STAINLESS STEEL HEAT EXCHANGER.																
3. PROVIDE TRAPPED CONDENSATE DRAIN. SEE CONDENSATE DRAIN TRAP DETAIL.																
4. UNIT SHALL HAVE BOTTOM DISCHARGE AND RETURN MOUNTED ATOP EXISTING ROOF CURB. PROVIDE INSULATED 16 GAUGE GALVANIZED ALL WELDED ROOF CURB ADAPTER TO TRANSITION FROM UNIT BASE SIZE TO EXISTING CURB. ADAPTER SHALL BE MANUFACTURED BY ALADDIN, MICROMETL, MGM, OR CURBS PLUS. FIELD VERIFY EXISTING CURB DIMENSIONS.																
5. STATIC PRESSURE SCHEDULED DOES NOT INCLUDE WET COOLING COIL, FILTER, REHEAT COIL, HEATING PLANT OR SYSTEM EFFECT LOSSES.																
6. PROVIDE HINGED ACCESS DOORS WITH 1/4 TURN LATCHES.																
7. PROVIDE CONDENSER COIL HAIL GUARDS.																
8. PROVIDE ELECTROMECHANICAL OR MICROPROCESSOR CONTROLS.																
9. PROVIDE INTEGRAL MODULATING HOT GAS REHEAT DEHUMIDIFICATION COIL CIRCUIT. MODULATING HOT GAS REHEAT SHALL BE FACTORY INSTALLED. THIRD PARTY MODIFICATIONS TO UNIT TO ACHIEVE MODULATING REHEAT IS NOT ALLOWED. PROVIDE ALL OTHER CONTROL AND MATERIAL OPTIONS REQUIRED TO ACCEPT INPUT FROM SPACE HUMIDITY SENSOR. PROVIDE MINIMUM 18" TEMPERATURE RISE TO DELIVER NEUTRAL DEHUMIDIFIED AIR DURING CALL FOR DEHUMIDIFICATION.																
10. PROVIDE FACTORY INSTALLED NON-FUSED DISCONNECT SWITCH.																
11. PROVIDE FACTORY INSTALLED POWERED G.F.I. CONVENIENCE OUTLET WITH INTEGRAL TRANSFORMER.																
12. PROVIDE OUTDOOR AIR INTAKE HOOD WITH MANUAL OUTSIDE AIR DAMPER AND BIRDSCREEN. IF MANUFACTURER DOES NOT OFFER FACTORY MANUAL OUTSIDE AIR DAMPER, PROVIDE THIRD PARTY OUTSIDE AIR DAMPER AS MANUFACTURED BY ALADDIN, MGM, OR MICROMETL.																
13. OMITTED.																
14. PROVIDE STAGED FAN / AIRFLOW FOR LOWER AIRFLOW DURING FIRST STAGE COOLING FOR UNITS WITH 2 STAGES OF COOLING SPECIFIED.																
15. EXISTING VOLTAGES SHOWN ARE BASED ON ORIGINAL ELECTRICAL DRAWINGS AND SHALL BE FIELD VERIFIED AT CIRCUIT BREAKER AND COORDINATED WITH ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING.																
16. GENERAL NOTE: EFFICIENCY OF BASIS OF DESIGN EQUIPMENT LISTED WILL BE THE MINIMUM FOR ENERGY EFFICIENCY. ALL OTHER APPROVED MANUFACTURER'S EQUIPMENT EFFICIENCY SHALL MEET OR EXCEED BASIS OF DESIGN EFFICIENCY.																
17. OUTDOOR AIR CFM FOR THIS UNIT AND AREA HAS BEEN DETERMINED BASED ON ASHRAE 62.1 INDOOR AIR QUALITY PROCEDURE RATHER THAN THE PRESCRIPTIVE VENTILATION RATE PROCEDURE. THE OUTDOOR AIR RATES USING THIS PROCEDURE ARE LOWER THAN THE PRESCRIPTIVE PROCEDURE. THIS UNITS AIR STREAM SHALL BE TREATED BY A CONTRACTOR INSTALLED NEEDLE POINT BIPOLAR IONIZATION UNIT TO REDUCE CONTAMINANT LEVELS TO THOSE EQUAL TO OR LOWER THAN THE VENTILATION RATE PROCEDURE UNLESS NOTED OTHERWISE, SEE COMPACT BI-POLAR IONIZATION UNIT DETAIL.																

FILTERS							
FILTER TYPE	CAMFIL FARR FILTER MODEL NUMBER	APPLICATION	MAXIMUM PRESSURE DROP @		ASHRAE 52.1-1992 DUST SPOT EFFICIENCY	ASHRAE MERV	FILTER THICKNESS
			PD IN WG	FFM			
PLEATED	20-20	WATER SOURCE HEAT PUMPS	0.09	250	20%	8	1"
PLEATED	30-30	ENERGY RECOVERY UNITS	0.28	500	30%	8	2"
PLEATED	30-30	ROOFTOP AIRCONDITIONERS	0.28	500	30%	8	2"
1. UL CLASS 2, MEDIUM EFFICIENCY, COTTON AND SYNTHETIC MEDIA FILTER.							
2. PROVIDE RIGID HEAVY DUTY FRAME BONDED TO MEDIA WITH WELDED WIRE PLEATED SUPPORT GRID TO MAINTAIN RADIAL PLEAT.							
3. FILTER MINIMUM EFFICIENCY REPORTING VALUE (MERV) BASED ON EVALUATION IN ACCORDANCE WITH ASHRAE STANDARD 52.2							
4. CONTRACTOR SHALL PROVIDE PLEATED FILTERS DURING CONSTRUCTION AND REPLACE WITH NEW CLEAN PLEATED FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.							
5. FILTER SIZE AND FILTER QUANTITIES FOR EACH PIECE OF EQUIPMENT SHALL BE DETERMINED BY EQUIPMENT MANUFACTURER, UNLESS SPECIFIC SIZE IS SHOWN ON DRAWINGS.							

KITCHEN EXHAUST FANS						
TAG	ACCUREX MODEL NO.	EXHAUST CFM	APPROX. ESP (IN.W.G.)	EXHAUST FAN HP	SONES	NOTES:
KEF-1	XCUBE-360HP-50	990	1.75	5	22.2	1,2,3,4
* EXISTING VOLTAGES SHOWN ARE BASED ON ORIGINAL ELECTRICAL DRAWINGS AND SHALL BE FIELD VERIFIED AT CIRCUIT BREAKER AND COORDINATED WITH ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING.						
1. UL LISTED UP-BLAST GREASE FANS. PROVIDE BELT DRIVE WITH ADJUSTABLE SHEAVE.						
2. KITCHEN EXHAUST FAN SHALL BE SUPPORTED ON NEW CURB CAP ADAPTER ATOP EXISTING ROOF CURB.						
3. PROVIDE UL 762 CONSTRUCTION FOR GREASE EXHAUST FANS. PROVIDE ALUMINUM GREASE BOX AND GREASE DRAIN INTO GREASE BOX. PROVIDE HINGED CURB CAP KIT WITH RESTRAINING CABLES TO ALLOW MAINTENANCE TO HINGE FAN TO GAIN ACCESS TO WHEEL AND DUCT FOR CLEANING AND INSPECTION. SEE KITCHEN VENTILATION FAN DETAIL. PROVIDE GREASE BOX AND GREASE PIPE.						
4. PROVIDE FACTORY MOUNTED NEMA-3R DISCONNECT FOR EXHAUST FAN, AND FAN BASE WITH HINGES.						

KITCHEN MAKEUP AIR UNITS									
TAG	ACCUREX MODEL NO.	CFM	HEATING INPUT MBH	HEATING OUTPUT MBH	APPROX. ESP (IN.W.G.)	MOTOR HP	SONES	NOTES:	EXISTING VOLTAGE/PHASE *
KMAU-1	XDGX-P122-H22-MF	7020	399.8	367.8	0.50	5	28.7	1,2,3,4,5,6,7,8,9	460 / 3
* EXISTING VOLTAGES SHOWN ARE BASED ON ORIGINAL ELECTRICAL DRAWINGS AND SHALL BE FIELD VERIFIED AT CIRCUIT BREAKER AND COORDINATED WITH ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING.									
1. ROOF MOUNTED BOTTOM DISCHARGE DIRECT GAS FIRED 100% OUTSIDE AIR MAKEUP AIR UNIT WITH PAINTED BAKED ENAMEL G-90 GALVANIZED CABINET. CASING SHALL BE INTERNALLY INSULATED W/ 1" FIBERGLASS.									
2. PROVIDE WEATHER PROOF INLET HOOD WITH 2" ALUMINUM MESH FILTERS AND BIRDSCREEN.									
3. PROVIDE FACTORY MOUNTED DISCONNECT.									
4. MOUNT ATOP EXISTING ROOF CURB. PROVIDE NEW MAKE-UP AIR UNIT TRANSITION, AND OTHER ACCESSORIES REQUIRED. PROVIDE NEW ADJUSTABLE SUPPORT LEGS ATOP EXISTING ROOF. PROVIDE PRESSURE TREATED 2X6 LUMBER UNDER SUPPORT LEGS. FIELD VERIFY EXISTING CURB DIMENSIONS.									
5. PROVIDE P.Q. / SPRING CLOSED, TWO POSITION INLET DAMPER.									
6. PROVIDE DIRECT SPARK IGNITION SYSTEM, ELECTRONIC MODULATING GAS BURNER, DUCT THERMOSTAT, FAN STARTER, AND CONTROL TRANSFORMER.									
7. PROVIDE CAST ALUMINUM BURNERS WITH STAINLESS STEEL MIXING PLATE. HEATING CAPACITIES BASED ON FIRING NATURAL GAS.									
8. PROVIDE NEW REMOTE SETPOINT ADJUSTMENT KNOB (POTENTIOMETER) IN KITCHEN TO REPLACE EXISTING SETPOINT ADJUSTMENT. PROVIDE NEW CONTROL WIRING ROUTED FROM SETPOINT ADJUSTMENT TO NEW KMAU TO ALLOW ADJUSTMENT OF SUPPLY AIR TEMPERATURE. CONTRACTOR MAY REUSE EXISTING SETPOINT ADJUSTMENT KNOB IF KMAU MANUFACTURER APPROVES OF EXISTING.									
9. LOCATION OF EXISTING KMAU STARTER AND KEF STARTER WERE NOT DETERMINED. (I.E. MOUNTED INSIDE KMAU CONTROL CABINET OR AT HOOD). CONTRACTOR SHALL VERIFY EXISTING POWER ARRANGEMENT, INCLUDING STARTER LOCATION, POWER WIRING AND CONTROL WIRING, AND MATCH EXISTING ARRANGEMENT. STARTER FOR KEF MAY BE REUSED IF LOCATED INSIDE HOOD CONTROL CABINET. BID PRICE SHALL INCLUDE STARTER FOR KEF AND KMAU. STARTER FOR KMAU IS BELIEVED TO BE INSIDE KMAU AND STARTER FOR KEF IS BELIEVED TO BE INSIDE HOOD CONTROL CABINET. PERFORM ALL WORK NECESSARY TO PROVIDE START/STOP CONTROL OF KMAU AND KEF FROM EXISTING HOOD SWITCHES, AND FOR SETPOINT CONTROL OF KMAU TEMPERATURE.									

- GENERAL NOTES
1. FIELD VERIFY EXISTING BUILDING ARRANGEMENT, DIMENSIONS AND DETAILS. THESE DRAWINGS ARE DIAGRAMMATIC, AND ARE NOT TO BE SCALED.

2. COORDINATE DUCT AND PIPE ROUTING AND EQUIPMENT LOCATION WITH EXISTING PLUMBING, FIRE PROTECTION, AND ELECTRICAL INSTALLATIONS AND WITH BUILDING STRUCTURAL MEMBERS. OFF-SET DUCT/PIPING AND SHIFT EQUIPMENT AS REQUIRED TO AVOID CONFLICTS WITH OTHER INSTALLATIONS.

3. SEE ARCHITECTURAL DRAWINGS FOR INFORMATION REGARDING CEILING GRID AND CEILING TILE REMOVED AND REPLACEMENT.

4. DUCT SIZES INDICATED ON THE PLANS ARE CLEAR INSIDE DIMENSIONS REQUIRED. WHERE LINER IS INDICATED OR NOTED, INCREASE DUCT SIZE TO ACHIEVE INDICATED DIMENSION(S).

5. REFER TO THE ELECTRICAL DRAWINGS FOR VOLTAGE, PHASE, MAXIMUM ALLOWABLE CURRENT DRAW, AMPERAGE AND CONNECTION ARRANGEMENT (SINGLE, MULTI-POINT, ETC.) OF ALL MECHANICAL EQUIPMENT PRIOR TO ORDERING/INSTALLING EQUIPMENT.

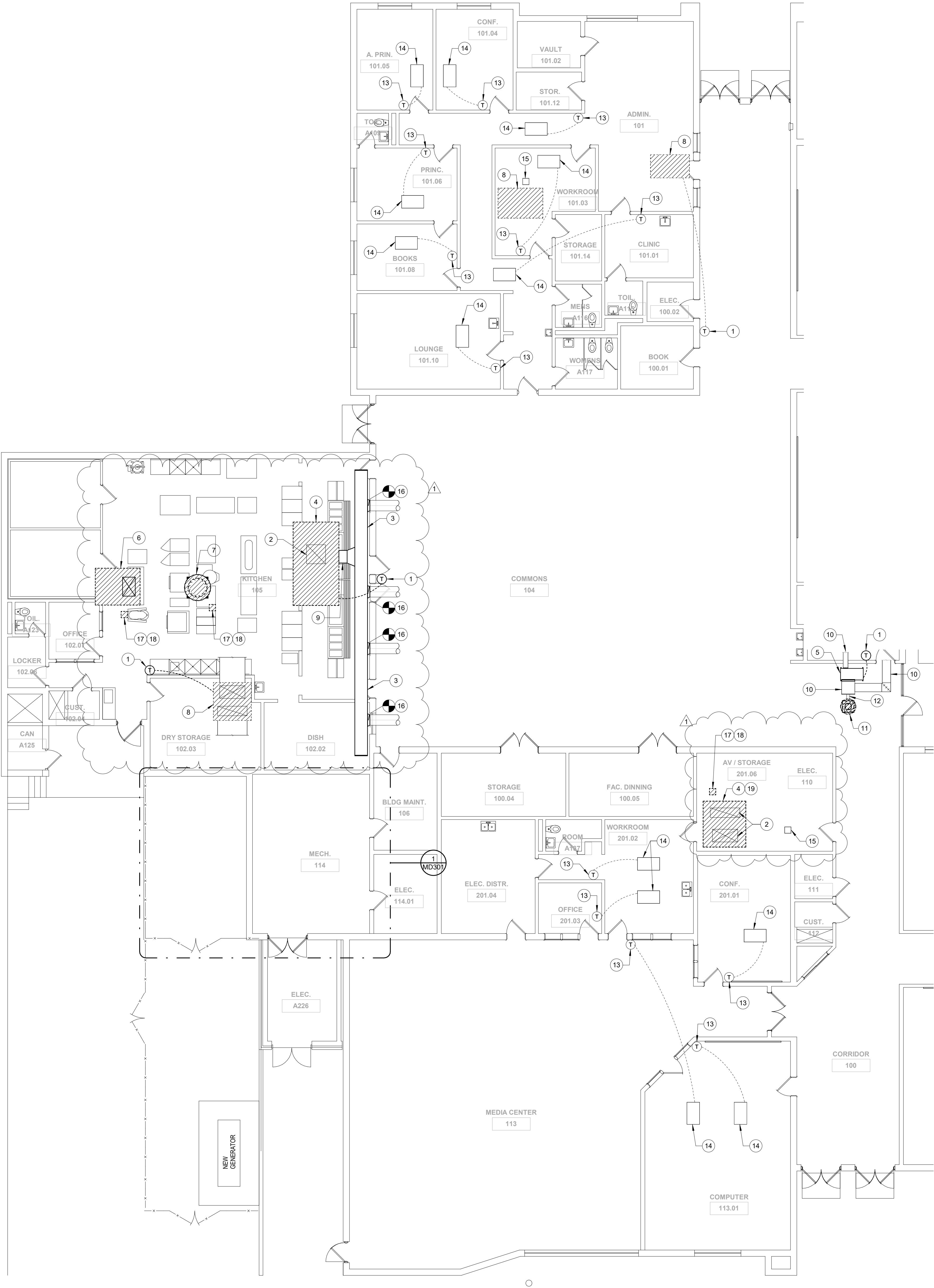
6. SUPPORT ALL DUCTS, PIPING AND EQUIPMENT FROM PRIMARY BUILDING STRUCTURAL MEMBERS AND PROVIDE SUPPLEMENTAL STRUCTURAL FRAMING AS REQUIRED BETWEEN PRIMARY BUILDING STRUCTURAL MEMBERS TO SUPPORT ALL SYSTEMS INSIDE THE BUILDING.

7. PROVIDE PIPE SLEEVE THRU ALL WALLS. SEE PIPE SLEEVE DETAIL.

8. PROVIDE PIPE HANGERS FOR ALL SUSPENDED PIPING AS SHOWN IN DETAILS. PROVIDE PIPE STAND FOR ALL FLOOR/GRADE MOUNTED PIPING AS SHOWN IN DETAILS.

- SCOPE OF TAB WORK
- EXCEPT AS EXPLICITLY NOTED ON THE DRAWINGS, TAB WORK IS LIMITED TO REPLACEMENT HVAC EQUIPMENT. THE MODIFICATIONS TO AUSTIN ROAD ELEMENTARY SCHOOL PROJECT CONSISTS OF THE INSTALLATION OF A NEW CENTRAL PLANT. TAB WORK FOR THIS PROJECT SHALL INCLUDE TAB FOR THE NEW CENTRAL PLANT. AUSTIN ROAD ELEMENTARY SCHOOL ALSO INCLUDES REPLACEMENT OF EXISTING WATER SOURCE HEAT PUMPS, ROOFTOP AIR CONDITIONING UNITS, AND KITCHEN HOOD MAKEUP AIR UNIT AND EXHAUST FAN WITH EQUIPMENT OF IDENTICAL OR NEARLY IDENTICAL AIRFLOWS AND CAPACITIES AS THE ORIGINAL DESIGN. THE DESIGN AND SCOPE OF TAB WORK FOR THIS PROJECT PRESUMES THAT THE CONNECTED GRILLES AND BALANCING DAMPERS WERE BALANCED DURING THE ORIGINAL PROJECT. TAB AGENT SHALL PERFORM TAB ON THESE PIECES OF EQUIPMENT REPLACING EXISTING EQUIPMENT, BUT IS NOT REQUIRED TO BALANCE CONNECTED GRILLES UNLESS EXPLICITLY SHOWN ON THE DRAWINGS. OUTDOOR AIR DAMPERS SERVING WSP'S SHALL BE BALANCED FOR OUTDOOR RATES SHOWN IN WSPH SCHEDULE. CONTRACTOR SHALL ASSIST TAB AGENT IN CORRECTING ALL DEFICIENCIES.

MECHANICAL LEGEND	
	GRILLE, REGISTER, DIFFUSER DESIGNATION WITH CFM SHOWN BELOW FOR TAB FIRM TO BALANCE DEVICE
	RECTANGULAR (OR FLAT OVAL) DUCT SIZE: 1ST DIMENSION IS SIZE DRAWN
	RIGID ROUND DUCTWORK (OR FLUE PIPING)
	FLEXIBLE ROUND DUCTWORK
	RECTANGULAR TO ROUND TRANSITION
	FLEXIBLE CONNECTION
	DUCT LINER - SEE SPECIFICATION OR SHEET NOTES FOR THICKNESS AND TYPE
	SQUARE ELBOW WITH TURNING VANES
	45° BRANCH ENTRY FITTING
	90° ROUND TO ROUND SADDLE TAP
	MANUAL VOLUME DAMPER
	AUTOMATIC VOLUME DAMPER
	ACCESS PANEL
	WALL SLEEVE
	BELLMOUTH TAKE-OFF FITTING
	45° TAKE-OFF FITTING
	ZONE DAMPER & ASSOCIATED THERMOSTAT/ZONE SENSOR
	SUPPLY DUCT TO OR FROM ABOVE (OR SUPPLY GRILLE)
	RETURN DUCT TO OR FROM ABOVE (OR RETURN GRILLE)
	ROOF MOUNTED EQUIPMENT
	CONCRETE EQUIPMENT PAD
	SUPPLY ARROW INDICATING DIRECTION OF AIRFLOW OR DUCT/PIPE OFFSET UP
	RETURN OR EXHAUST AIRFLOW (DIRECTION)
	THERMOSTAT OR TEMPERATURE SENSOR WITH LOCKING COVER
	THERMOSTAT OR TEMPERATURE SENSOR
	CONVENTIONAL SNAP-ACTION THERMOSTAT OR TEMPERATURE SENSOR
	WALL MOUNTED SWITCH
	CARBON DIOXIDE SENSOR
	HUMIDISTAT OR HUMIDITY SENSOR
	POWER CONTACTOR PROVIDED BY MECHANICAL
	DUCT MOUNTED SMOKE DETECTOR (PROVIDED AND WIRED BY ELEC.)
	FLOW SWITCH
	FLOW METER
	DIFFERENTIAL PRESSURE SENSOR
	OVERRIDE TIMER
	DIRECTION OF FLOW
	HOT WATER SUPPLY & RETURN PIPING
	LOOP WATER SUPPLY & RETURN PIPING
	CONDENSER WATER SUPPLY & RETURN PIPING
	CONDENSATE DRAIN PIPING
	VENT PIPING
	GAS PIPING
	REFRIGERANT PIPING
	MAKE-UP WATER PIPING
	CHEMICAL WATER TREATMENT PIPING
	PRESSURE RELIEF PIPING
	AUTOMATIC FLOW CONTROL VALVE
	PIPE SLEEVE THROUGH WALL OR FLOOR - SEE PIPE SLEEVE DETAIL
	DROPPING OR RISING PIPE
	PIPE TO OR FROM ABOVE
	CALIBRATED VENTURI WITH PRESSURE & TEMPERATURE PORTS
	BALL VALVE FOR 2" AND UNDER, BUTTERFLY VALVE FOR 2-1/2" AND ABOVE
	CHECK VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	RELIEF VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	CAPPED PIPING, OR BLIND FLANGE (BF)
	PIPE UNION
	FLANGED JOINT
	SPHERICAL RUBBER FLEXIBLE PIPE CONNECTOR
	"Y" TYPE INLINE PIPE STRAINER
	"Y" TYPE INLINE PIPE STRAINER 2" & LARGER (WITH BLOWDOWN VALVE)
	ECCENTRIC PIPE REDUCER, CONCENTRIC PIPE REDUCER
	AUTOMATIC AIR VENT - PIPE TO NEAREST FLOOR DRAIN. SEE AAV DETAIL.
	GAUGE COCK, DIAL TYPE PRESSURE GAUGE
	THERMOMETER WELL, STEM TYPE THERMOMETER - SEE THERMOMETER DETAIL
	TEMPERATURE AND PRESSURE TEST PORTS (P&T's)
	PIPE ELBOW - 45° OR 90°
	PIPE TEE
	DRY BULB, WET BULB
	STAINLESS STEEL
	FEET PER MINUTE
	CUBIC FEET PER MINUTE (AIRFLOW)
	OUTSIDE AIR
	BTU's PER HOUR x 1000
	APPROXIMATELY
	EXTERNAL STATIC PRESSURE (INCHES OF WATER GAUGE)
	HORSEPOWER
	REVOLUTIONS PER MINUTE (MOTOR SPEED)
	UNLESS OTHERWISE NOTED
	ABOVE FINISHED FLOOR
	UNDERCUT
	GALLONS PER MINUTE (WATERFLOW)
	KILOWATTS
	TEMP



MECHANICAL DEMOLITION FLOOR PLAN – SECTOR A
1/8" = 1'-0"

NOTES GENERAL: (THIS SHEET ONLY)

- A. SEE "GENERAL DEMOLITION" PARAGRAPH IN SPECIFICATION SECTION 230513 CONCERNING GENERAL DEMOLITION.
- B. THIS FLOOR PLAN ONLY SHOWS MECHANICAL ITEMS RELEVANT TO THE SCOPE OF WORK FOR THIS PROJECT. UNLESS SPECIFICALLY IDENTIFIED, EXISTING HVAC ITEMS NOT SHOWN ON THIS PLAN ARE TO REMAIN AS IS.
- C. ALL CONTROL WORK IS BEING PERFORMED BY THE OWNER'S CONTROL COMPANY (CONTROL CONCEPTS, INC.). REMOVAL OF CONTROL WIRING/DDC CONTROLLERS, SENSORS, ETC., SHALL BE PERFORMED BY THE CONTROLS CONTRACTOR.
- D. ALL ELECTRICAL POWER WORK, INCLUDING DISCONNECTING EXISTING UNITS AND REMOVAL OF ELECTRICAL DEVICES AND WIRING, SHALL BE DONE BY THE ELECTRICAL CONTRACTOR.
- E. CONTRACTOR SHALL PROVIDE WEATHER PROTECTION FOR ALL BUILDING OPENINGS RESULTING FROM MECHANICAL EQUIPMENT REMOVAL.
- F. THE SCOPE OF WORK FOR THE AIR DISTRIBUTION FOR EACH ZONE GENERALLY CONSISTS OF REMOVING THE UNIT AS INDICATED BUT REUSING THE SHEET METAL SUPPLY DUCTS AND/OR RETURN DUCTS.
- G. TO ACCOMPLISH THE WSHIP DEMOLITION WORK, THE CONTRACTOR MUST DRAIN PORTIONS OF THE EXISTING LOOP WATER SUPPLY AND RETURN PIPING SYSTEM. CONTRACTOR SHALL NOT CAUSE ANY WATER DAMAGE.
- H. GENERAL: EXISTING POWER CIRCUITS FOR RTACS RISE THROUGH EXISTING PITCH POCKETS. SEE ELECTRICAL DRAWINGS FOR REMOVAL OF POWER CIRCUIT TO BELOW ROOF DECK, AND JUNCTIONING CIRCUIT BELOW ROOF LEVEL, AND ROUTING CIRCUIT UP INSIDE CURB AND NEW CURB ADAPTER TO NEW RTAC. SEE NEW WORK DRAWINGS. FILL PITCH POCKET FOLLOWING POWER CIRCUIT REMOVAL. CONTROL CIRCUITS ALSO TO BE REROUTED BY OWNER'S CONTROL COMPANY, CCI.

I. PRIOR TO REMOVAL OF ABOVE CEILING HORIZONTAL WSHIP, CONTRACTOR SHALL RECORD THE RETURN AIR PLENUM SIDE (RIGHT OR LEFT), CONNECTION SIDE OF PLENUM FOR NEW REPLACEMENT UNITS SHALL MATCH EXISTING CONNECTION SIDE.

NOTES: (THIS SHEET ONLY)

1. REMOVE EXISTING WALL MOUNTED DDC TEMPERATURE SENSOR. REMOVE EXISTING ASSOCIATED DDC CONTROLLER MOUNTED ABOVE CEILING IF CONTROLLER DOES NOT HAVE NECESSARY QUANTITY OF INPUTS FOR NEW DEHUMIDIFICATION AND NUMBER OF COOLING AND HEATING STAGES SPECIFIED. OTHERWISE, CONTROLLER AND SENSOR MAY REMAIN. FIELD VERIFY DDC CONTROLLER LOCATION. SEE NEW WORK DRAWINGS FOR NEW DDC TEMPERATURE SENSOR WITH HUMIDITY SENSOR CAPABILITY.
2. LOCATION SHOWN FOR SUPPLY AIR DUCT AND RETURN AIR DUCT IS SYMBOLIC. SUPPLY AND RETURN DUCT LOCATIONS SHOWN ARE BASED ON ORIGINAL DRAWINGS, AND MAY NOT REPRESENT THE ACTUAL LOCATIONS. CONTRACTOR SHALL FIELD VERIFY EXACT DUCT LOCATIONS AND DIMENSIONS PRIOR TO ORDERING REPLACEMENT EQUIPMENT.
3. CONTRACTOR SHALL REMOVE ALL EXPOSED EXTERIOR DUCTWORK SERVING THE COMMONS AREA. SEE NEW WORK DRAWINGS FOR REQUIREMENTS FOR NEW INTERNALLY LINED DUCTWORK.
4. REMOVE EXISTING GAS FIRED ROOFTOP AIR CONDITIONING UNIT. EXISTING ROOF CURB TO REMAIN FOR REUSE. DIMENSIONS OF ROOFTOP UNITS ARE NOT TO BE SCALED. DIMENSIONS (IF SHOWN) ARE SYMBOLIC AND APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS OF RTAC UNITS. FIELD VERIFY EXISTING SUPPLY AND RETURN CONNECTION LOCATIONS, AND FIELD VERIFY EXISTING CURB DIMENSIONS AND EXISTING MODEL NUMBERS PRIOR TO ORDERING REPLACEMENT UNITS AND ADAPTER CURBS. SEE NEW WORK DRAWINGS FOR NEW RTAC ATOP EXISTING CURB.
5. REMOVE EXISTING HORIZONTAL ABOVE CEILING WATER SOURCE HEAT PUMP INCLUDING SUPPORTS. REMOVE ASSOCIATED SUPPLY AIR DUCTWORK AS REQUIRED TO REMOVE WSHIP. REMOVE EXISTING RETURN AIR DUCTWORK AS REQUIRED TO REMOVE WSHIP. SEE NEW WORK DRAWINGS FOR REQUIREMENTS FOR NEW WSHIP. LOCATION SHOWN FOR WSHIP, DISCHARGE AND RETURN ORIENTATION FROM WSHIPS, AND DUCT LOCATION ARE BASED ON ORIGINAL DRAWINGS, AND IN MANY CASES DO NOT REFLECT INSTALLED CONDITIONS. DISCONNECT EXISTING CONDENSATE DRAIN FROM WSHIP PIPING AND REMOVE AS REQUIRED TO FACILITATE UNIT REMOVAL. REMOVE EXISTING HOSE KIT FROM WSHIP AND REMOVE EXISTING LOOP WATER SUPPLY AND RETURN PIPING FROM WSHIP AS DETAILED. LOOP PIPING AND HOSE KIT NOT SHOWN FOR CLARITY.
6. REMOVE EXISTING GAS FIRED KITCHEN MAKEUP AIR UNIT SERVING KITCHEN HOOD. EXISTING ROOF CURB SHALL REMAIN FOR REUSE. SEE NEW WORK DRAWINGS FOR INSTALLATION OF NEW MAKEUP AIR UNIT ATOP EXISTING CURB. PROVIDE CURB ADAPTER TO ALLOW FOR MOUNTING OF NEW UNIT.
7. REMOVE EXISTING ROOF MOUNTED GREASE EXHAUST FAN SERVING KITCHEN HOOD. EXISTING ROOF CURB SHALL REMAIN. SEE NEW WORK DRAWINGS FOR NEW EXHAUST FAN ATOP EXISTING CURB WITH CURB ADAPTER.
8. EXISTING GAS FIRED ROOFTOP UNIT TO REMAIN. PROVIDE NEW UNIT CONTROLLER AS REQUIRED TO CONNECT UNIT TO UPDATED CONTROL SYSTEM.
9. REMOVE EXISTING HORIZONTAL SUPPLY DUCT FROM CONNECTION AT ROOFTOP UNIT UP TO ROUND DUCT WORK. ROUND BRANCH DUCTS TO REMAIN FOR REUSE. SEE NEW WORK DRAWINGS FOR INSTALLATION OF NEW DUCTWORK. EXISTING WALL MOUNTED DUCT SUPPORTS MAY REMAIN FOR REUSE IF POSSIBLE. OTHERWISE PROVIDE NEW 2X2X1 3/4 PAINTED ANGLE IRON SUPPORT BRACKETS FOR DUCT AS SHOWN ON NEW WORK PLANS.
10. EXISTING SUPPLY DUCT, RETURN DUCT, AND RETURN AIR PLENUM TO REMAIN AS INDICATED IN NOTE 5.
11. REMOVE EXISTING ROOF MOUNTED NON-POWERED OUTDOOR AIR INTAKE VENTILATOR. EXISTING CURB AND OUTDOOR AIR DUCT TO REMAIN FOR REUSE. SEE NEW WORK DRAWINGS FOR INSTALLATION OF NEW VENTILATOR ATOP CURB ADAPTER.
12. EXISTING OUTDOOR AIR DUCT RISING TO ROOF VENTILATOR TO REMAIN. SEE NEW WORK DRAWINGS FOR RECONNECTION OF DUCTWORK TO NEW VENTILATOR.
13. EXISTING VVT TEMPERATURE SENSOR TO REMAIN.
14. EXISTING VVT DAMPER TO REMAIN.
15. EXISTING VVT BYPASS DAMPER TO REMAIN.
16. EXISTING EXTERIOR ROUND BRANCH DUCTS TO REMAIN.
17. EXISTING POWER CIRCUIT FOR EQUIPMENT RISES THROUGH EXISTING PITCH POCKET. SEE ELECTRICAL DRAWINGS FOR REMOVAL OF POWER CIRCUIT, TO BELOW ROOF DECK, AND JUNCTIONING CIRCUIT BELOW ROOF LEVEL, AND ROUTING CIRCUIT UP INSIDE CURB AND NEW CURB ADAPTER TO NEW EQUIPMENT. SEE NEW WORK DRAWINGS. FILL PITCH POCKET FOLLOWING POWER CIRCUIT REMOVAL.
18. EXISTING CONTROL CIRCUIT SERVING EQUIPMENT RISES THROUGH EXISTING PITCH POCKET. CONTROL CIRCUIT TO BE REROUTED UP INSIDE CURB AND CURB ADAPTER TO NEW EQUIPMENT. SEE NEW WORK DRAWINGS. CONTROL CIRCUIT WORK TO BE PERFORMED BY OWNER'S CONTROL COMPANY, CCI.
19. REMOVE EXISTING ADAPTER CURB ATOP EXISTING ROOF CURB. ROOF CURB TO REMAIN.

NOTE CONCERNING EXISTING DUCT SYSTEMS:

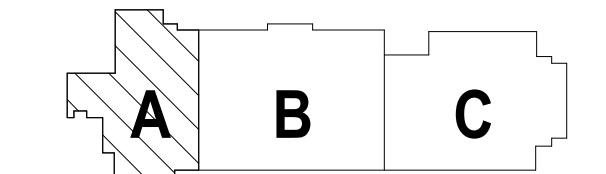
THIS PLAN SHOWS CERTAIN PIECES OF MECHANICAL EQUIPMENT OR SYSTEMS TO BE REMOVED AND/OR REPLACED. THERE ARE EXISTING DUCT SYSTEMS ASSOCIATED WITH THIS EQUIPMENT THAT ARE NOT SHOWN ON THESE PLANS, AND THESE DUCT SYSTEMS ARE EXISTING TO REMAIN. THERE ARE ALSO OTHER DUCTWORK SYSTEMS FOR OTHER EXISTING TO REMAIN HVAC SYSTEMS THAT ARE NOT SHOWN, AND THESE SYSTEMS AND DUCT ARE EXISTING TO REMAIN.



HCS Group 6-1 - HVAC Replacement
COTTON INDIAN ELEMENTARY SCHOOL

1201 OLD CONYERS ROAD, STOCKBRIDGE, GA 30281

CONTRACT DRAWINGS
CLIENT PROJECT NUMBER: 260013



KEY PLAN



CLIENT		
Henry County Board of Education		
DATE	PROJECT NUMBER	
05 / 29 / 2026	260013	
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

MECHANICAL
DEMOLITION FLOOR
PLAN – SECTOR A

MD101

$$1/8'' = 1'-0''$$

A. SEE "GENERAL DEMOLITION" PARAGRAPH H SPECIFICATION SECTION 2903.13 CONCERNING GENERAL DEMOLITION.

B. THIS FLOOR PLAN ONLY SHOWS MECHANICAL ITEMS RELEVANT TO THE SCOPE OF WORK FOR THIS PROJECT. UNLESS SPECIFICALLY IDENTIFIED BY THE EXISTING HVAC ITEMS NOT SHOWN ON THIS PLAN ARE TO REMAIN AS IS.

C. ALL CONTROL WORK IS BEING PERFORMED BY THE OWNER'S CONTROL COMPANY (CONTROL CONCEPTS, INC.). REMOVAL OF CONTROL WIRING/DC CONTROLLERS, SENSORS, ETC., SHALL BE PROVIDED BY THE CONTRACTOR.

D. ALL ELECTRICAL POWER WORK, INCLUDING DISCONNECTING EXISTING LINES AND REMOVAL OF ELECTRICAL DEVICES AND WIRING, SHALL BE DONE BY THE ELECTRICAL CONTRACTOR.

E. CONTRACTOR SHALL PROVIDE WEATHER PROTECTION FOR ALL BUILDING OPENINGS RESULTING FROM MECHANICAL EQUIPMENT REMOVAL.

F. THE SCOPE OF WORK FOR THE AIR DISTRIBUTION FOR EACH ZONE SHALL BE TO REMOVE THE WATER SOURCE HEAT PUMP GENERALLY CONSISTING OF REMOVING THE WATER SOURCE HEAT PUMP BUT REUSING THE SHEET METAL SUPPLY, RETURN, AND OUTDOOR AIR DUCTS.

G. TO ACCOMPLISH THE WSPM DEMOLITION WORK, THE CONTRACTOR MUST DRAIN PORTIONS OF THE EXISTING LOOP WATER SUPPLY AND RETURN PIPING. THE CONTRACTOR SHALL NOT CAUSE ANY WATER DAMAGE.

1. REMOVE EXISTING WALL MOUNTED DDC TEMPERATURE SENSOR. REMOVE EXISTING ASSOCIATED DDC WIRING. REMOVE EXISTING DDC CONTROLLER. DOES NOT HAVE NECESSARY QUANTITY OF INPUTS FOR NEW DEHUMIDIFICATION AND NUMBER OF COOLING AND HEATING STAGES EXCEEDS CAPABILITY OF CONTROLLER. MAY REMAIN. FIELD VERIFY DDC CONTROLLER LOCATION. SEE NEW WORK DRAWINGS FOR NEW DDC TEMPERATURE SENSOR WITH HUMIDITY SENSOR CAPABILITY.
2. REMOVE EXISTING ROOF MOUNTED SUPPLY FAN. EXISTING DUCT CURB AND ASSOCIATED DUCT REMAIN FOR REUSE. CONTRACTOR TO FIELD VERIFY EXISTING DIMENSIONS AND LOCATION OF SUPPLY FANS. FIELD VERIFY EXISTING DUCT CONNECTIONS. CONTRACTOR TO FIELD VERIFY EXISTING CURB DIMENSIONS. SEE NEW WORK DRAWINGS FOR INSTALLATION OF NEW NON-Powered INTAKE/EXHAUST FAN TO EXISTING CURB WITH NEW CURB ADAPTER.
3. REMOVE EXISTING HORIZONTAL ABOVE CEILING WATER SOURCE HEAT PUMP INCLUDING SUPPORTS. REMOVE ASSOCIATED SUPPLY AIR DUCTWORK AS REQUIRED TO REMOVE WSPH. REMOVE EXISTING DUCTWORK AS REQUIRED TO REMOVE WSPH. SEE NEW WORK DRAWINGS FOR REQUIREMENTS FOR NEW SUPPLY AIR DUCTWORK. DUCTWORK TO BE ORIENTED FOR AIR ORIENTATION FROM WSPHS, AND DUCT LOCATION (IF SHOWN) ARE BASED ON ORIGINAL DRAWINGS AND IN MANY CASES DO NOT REFLECT CURRENT FIELD CONDITIONS. DISCONNECT EXISTING CONDENSATE DRAIN FROM WSPH AND REMOVE. REMOVE EXISTING CONDENSATE DRAIN REMOVAL. REMOVE EXISTING HOSE KIT FROM WSPH AND REMOVE EXISTING LOOP WATER SUPPLY AND RETURN. REMOVE EXISTING WSPH. REMOVE EXISTING LOOP PIPING AND HOSE KIT NOT SHOWN FOR CLARITY.

- EXISTING OUTSIDE AIR DUCTWORK TO REMAIN (TYP.). SEE NEW WORK DRAWINGS FOR BALANCING OF OUTSIDE AIR TO NEW SHEET.
5. SEE SHEET MD103 FOR OUTDOOR AIR DUCTWORK CONTINUATION.
6. REMOVE EXISTING LOW-LIMIT THERMOSTAT. PATCH AND REPAIR WALL AS REQUIRED TO MATCH EXISTING.
7. MOST ALL EXISTING WATER SOURCE, HEAT PUMPS ARE PROVIDED WITH A BI-POLAR IONIZATION UNIT(BIPIU). CONTRACTOR SHALL CERTIFY EXACT LOCATION OF BIPIU.
 - IF BIPIU IS INSTALLED ON SUPPLY DUCT, AND IF CONTRACTOR IS NOT REMOVING THE PORTION OF SUPPLY DUCT WHERE THE BIPIU IS INSTALLED, CONTRACTOR SHALL CAREFULLY REMOVE POWER WIRING FROM WSHF.
 - IF BIPIU IS INSTALLED ON SUPPLY DUCT, AND IF CONTRACTOR IS REMOVING THE PORTION OF SUPPLY DUCT WHERE THE BIPIU IS INSTALLED, CONTRACTOR SHALL CAREFULLY REMOVE THE BIPIU FROM THE DUCT AND CAREFULLY REMOVE POWER WIRING FROM WSHF, AND LABEL BIPIU WITH ROOM SERVED.
 - IF BIPIU IS INSTALLED INSIDE EXISTING WSHF, CONTRACTOR SHALL CAREFULLY REMOVE THE BIPIU FROM THE UNIT AND CAREFULLY REMOVE THE BIPIU WIRING FROM WSHF, AND LABEL BIPIU WITH ROOM SERVED.
- SEE NEW WORK DRAWING FOR REWIRING POWER TO BIPIU, AND WHERE BIPIU WAS REMOVED, REINSTALLING BIPIU IN DUCT OR INSIDE WSHF AS APPLICABLE.
8. EXISTING POWER CIRCUIT FOR EQUIPMENT RISES THROUGH EXISTING PITCH POCKET. SEE ELECTRICAL DRAWINGS FOR REMOVAL OF POWER CIRCUIT. TO BELOW CRAWLSPACE, AND JOIST SPACE, AND TO FLOOR JOIST LEVEL, AND ROUTING CIRCUIT UP INSIDE CURB AND NEW CURB ADAPTER TO NEW EQUIPMENT. SEE NEW WORK DRAWINGS. FILL PITCH POCKET FOLLOWING POWER CIRCUIT REMOVAL.

AH & P
**CONSULTING
ENGINEERS**

**HCS Group 6-1 - HVAC Replacement
COTTON INDIAN ELEMENTARY SCHOOL**

1201 OLD CONYERS ROAD, STOCKBRIDGE, GA 30281

CONTRACT DRAWINGS

CLIENT PROJECT NUMBER: 260013



HENRY
COUNTY SCHOOLS

KEY PLAN

CLIENT		
Henry County Board of Education		
DATE	PROJECT NUMBER	
05 / 29 / 2026	260013	
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

**MECHANICAL
DEMOLITION FLOOR
PLAN – SECTOR B**

MD102

NOTES GENERAL: (THIS SHEET ONLY)

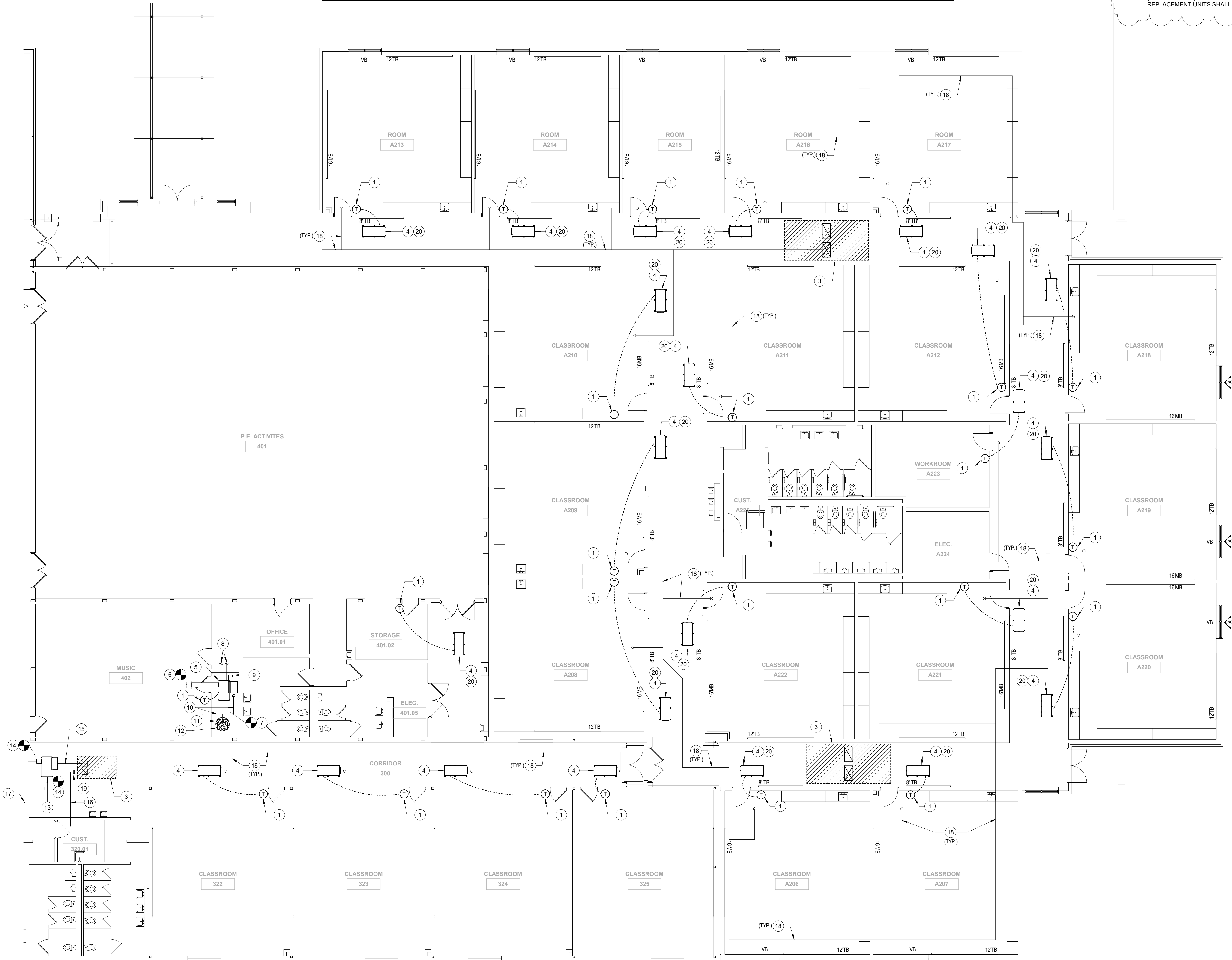
- A. SEE "GENERAL DEMOLITION" PARAGRAPH IN SPECIFICATION SECTION 230513 CONCERNING GENERAL DEMOLITION.
- B. THIS FLOOR PLAN ONLY SHOWS MECHANICAL ITEMS RELEVANT TO THE SCOPE OF WORK FOR THIS PROJECT. UNLESS SPECIFICALLY IDENTIFIED, EXISTING HVAC ITEMS NOT SHOWN ON THIS PLAN ARE TO REMAIN AS IS.
- C. ALL CONTROL WORK IS BEING PERFORMED BY THE OWNER'S CONTROL COMPANY (CONTROL CONCEPTS, INC.). REMOVAL OF CONTROL WIRING/DDC CONTROLLERS, SENSORS, ETC., SHALL BE PERFORMED BY THE CONTROLS CONTRACTOR.
- D. ALL ELECTRICAL POWER WORK, INCLUDING DISCONNECTING EXISTING UNITS AND REMOVAL OF ELECTRICAL DEVICES AND WIRING, SHALL BE DONE BY THE ELECTRICAL CONTRACTOR.
- E. CONTRACTOR SHALL PROVIDE WEATHER PROTECTION FOR ALL BUILDING OPENINGS RESULTING FROM MECHANICAL EQUIPMENT REMOVAL.
- F. THE SCOPE OF WORK FOR THE AIR DISTRIBUTION FOR EACH ZONE SERVED BY A WATER SOURCE HEAT PUMP GENERALLY CONSISTS OF REMOVING THE WATER SOURCE HEAT PUMP BUT REUSING THE SHEET METAL SUPPLY, RETURN AND OUTDOOR AIR DUCTS.
- G. TO ACCOMPLISH THE WSHWP DEMOLITION WORK, THE CONTRACTOR MUST DRAIN PORTIONS OF THE EXISTING LOOP WATER SUPPLY AND RETURN PIPING SYSTEM. CONTRACTOR SHALL NOT CAUSE ANY WATER DAMAGE.
- H. PRIOR TO REMOVAL OF ABOVE CEILING HORIZONTAL WSHWP, CONTRACTOR SHALL RECORD THE RETURN AIR PLENUM SIDE (RIGHT OR LEFT), CONNECTION SIDE OF PLENUM FOR NEW REPLACEMENT UNITS SHALL MATCH EXISTING CONNECTION SIDE.

NOTES: (THIS SHEET ONLY)

1. REMOVE EXISTING WALL MOUNTED DDC TEMPERATURE SENSOR. REMOVE EXISTING ASSOCIATED DDC CONTROLLER MOUNTED ABOVE CEILING IF CONTROLLER DOES NOT HAVE NECESSARY QUANTITY OF INPUTS FOR NEW DEHUMIDIFICATION AND NUMBER OF COOLING AND HEATING STAGES SPECIFIED. OTHERWISE, CONTROLLER MAY REMAIN. FIELD VERIFY DDC CONTROLLER LOCATION. SEE NEW WORK DRAWINGS FOR NEW DDC TEMPERATURE SENSOR WITH HUMIDITY SENSOR CAPABILITY.
2. LOCATION SHOWN FOR SUPPLY AIR DUCT AND RETURN AIR DUCT IS SYMBOLIC. SUPPLY AND RETURN DUCT LOCATIONS SHOWN ARE BASED ON ORIGINAL DRAWINGS, AND MAY NOT REPRESENT THE ACTUAL LOCATIONS. CONTRACTOR SHALL FIELD VERIFY EXACT DUCT LOCATIONS AND DIMENSIONS PRIOR TO ORDERING REPLACEMENT EQUIPMENT.
3. REMOVE EXISTING ROOF MOUNTED ENERGY RECOVERY UNIT. EXISTING ROOF CURB TO REMAIN FOR REUSE. DIMENSIONS OF UNITS ARE NOT TO BE SCALED. DIMENSIONS (IF SHOWN) ARE SYMBOLIC AND APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS OF UNITS. FIELD VERIFY EXISTING SUPPLY AND RETURN CONNECTION LOCATIONS, AND FIELD VERIFY EXISTING CURB DIMENSIONS AND EXISTING MODEL NUMBERS PRIOR TO ORDERING REPLACEMENT UNITS AND ADAPTER CURBS. SEE NEW WORK DRAWINGS FOR NEW ENERGY RECOVERY UNIT ATOP EXISTING CURB.
4. REMOVE EXISTING HORIZONTAL ABOVE CEILING WATER SOURCE HEAT PUMP INCLUDING SUPPORTS. REMOVE ASSOCIATED SUPPLY AIR DUCTWORK AS REQUIRED TO REMOVE WSHWP. REMOVE EXISTING RETURN AIR DUCTWORK AS REQUIRED TO REMOVE WSHWP. SEE NEW WORK DRAWINGS FOR REQUIREMENTS FOR NEW WSHWP. LOCATION FOR WSHWP, DISCHARGE AND RETURN ORIENTATION FROM WSHWP'S, AND DUCT LOCATION ARE BASED ON ORIGINAL DRAWINGS AND IN MANY CASES DO NOT REFLECT INSTALLED CONDITIONS. DISCONNECT EXISTING CONDENSATE DRAIN FROM WSHWP AND REMOVE AS REQUIRED TO FACILITATE UNIT REMOVAL. REMOVE EXISTING HOSE KIT FROM WSHWP AND REMOVE EXISTING LOOP WATER SUPPLY AND RETURN PIPING FROM WSHWP. LOOP PIPING AND HOSE KIT NOT SHOWN FOR CLARITY.
5. REMOVE EXISTING HORIZONTAL ABOVE CEILING WATER SOURCE HEAT PUMP INCLUDING SUPPORTS. REMOVE ASSOCIATED SUPPLY AND RETURN AIR DUCTWORK UP TO SCOPE OF WORK SYMBOL. SEE NEW WORK DRAWINGS FOR NEW MOUNTING LOCATION FOR UNIT. LOCATION SHOWN FOR WSHWP, DISCHARGE AND RETURN ORIENTATION FROM WSHWP'S, AND DUCT LOCATION ARE BASED ON ORIGINAL DRAWINGS AND IN MANY CASES DO NOT REFLECT INSTALLED CONDITIONS. DISCONNECT EXISTING CONDENSATE DRAIN FROM WSHWP TO TERMINATION POINT. REMOVE EXISTING HOSE KIT FROM WSHWP AND REMOVE EXISTING LOOP WATER SUPPLY AND RETURN PIPING FROM WSHWP. LOOP PIPING AND HOSE KIT NOT SHOWN FOR CLARITY.
6. REMOVE EXISTING SUPPLY DUCT FROM CONNECTION TO WSHWP UP TO THIS APPROXIMATE LOCATION. SEE NEW WORK DRAWINGS FOR NEW SUPPLY DUCT CONNECTION.
7. REMOVE EXISTING RETURN DUCT FROM CONNECTION TO WSHWP UP TO THIS APPROXIMATE LOCATION. SEE NEW WORK DRAWINGS FOR NEW RETURN DUCT CONNECTION.
8. REMOVE EXISTING LOOP SUPPLY & RETURN PIPING FROM CONNECTION TO UNIT UP TO CONNECTION TO PIPING MAIN AND CAP PIPING TO ALLOW MAINS TO REMAIN FOR REUSE. FIELD VERIFY EXACT PIPING LOCATION AND SIZES.
9. REMOVE EXISTING CONDENSATE DRAIN PIPING FROM CONNECTION TO UNIT UP TO TERMINATION POINT.
10. EXISTING RETURN DUCT TO REMAIN.
11. EXISTING ROOF MOUNTED INTAKE VENTILATOR TO REMAIN FOR REUSE.
12. EXISTING OUTSIDE AIR DUCT RISING TO ROOF VENTILATOR TO REMAIN.
13. REMOVE EXISTING WATER SOURCE HEAT PUMP ASSOCIATED WITH ENERGY RECOVERY UNIT. REMOVE EXISTING HOSE KITS, UNIT SUPPORTS, AND LOOP AND DRAIN PIPING. CAP EXISTING LOOP PIPING AT PIPING MAIN.
14. REMOVE PORTION OF DUCT ON INLET AND DISCHARGE SIDE OF WSHWP ASSOCIATED WITH ENERGY RECOVERY UNIT. SEE NEW WORK DRAWINGS FOR REPLACEMENT DUCTWORK.
15. EXISTING OUTSIDE AIR DUCTWORK TO REMAIN. CONTRACTOR MAY REMOVE PORTION OF DUCTWORK AS REQUIRED TO FACILITATE ERU REPLACEMENT.
16. EXISTING ERU RETURN DUCT TO REMAIN.
17. SEE SHEET MD102 FOR DUCTWORK CONTINUATION.
18. EXISTING OUTSIDE AIR DUCTWORK TO REMAIN. FIELD VERIFY EXACT LOCATION & ROUTING AS NECESSARY.
19. REMOVE ACTUATOR FROM MOTORIZED DAMPER IN RETURN DUCT SERVING EXISTING OUTDOOR AIR UNIT AND PERMANENTLY FIX DAMPER IN WIDE OPEN POSITION. REMOVE ALL CONTROL WIRING. FIELD VERIFY EXACT MOTORIZED DAMPER LOCATION.
20. MOST ALL EXISTING WATER SOURCE HEAT PUMPS ARE PROVIDED WITH A BI-POLAR IONIZATION UNIT (BPIU). CONTRACTOR SHALL CERTIFY EXACT LOCATION OF BPIU.
- IF BPIU IS INSTALLED ON SUPPLY DUCT, AND IF CONTRACTOR IS NOT REMOVING THE PORTION OF SUPPLY DUCT WHERE THE BPIU IS INSTALLED, CONTRACTOR SHALL CAREFULLY REMOVE POWER WIRING FROM WSHWP.
- IF BPIU IS INSTALLED ON SUPPLY DUCT, AND IF CONTRACTOR IS REMOVING THE PORTION OF SUPPLY DUCT WHERE THE BPIU IS INSTALLED, CONTRACTOR SHALL CAREFULLY REMOVE THE BPIU FROM THE DUCT AND CAREFULLY REMOVE POWER WIRING FROM WSHWP, AND LABEL BPIU WITH ROOM SERVED.
- IF BPIU IS INSTALLED INSIDE EXISTING WSHWP, CONTRACTOR SHALL CAREFULLY REMOVE THE BPIU FROM THE UNIT AND CAREFULLY REMOVE POWER WIRING FROM WSHWP, AND LABEL BPIU WITH ROOM SERVED.
- SEE NEW WORK DRAWING FOR REWIRING POWER TO BPIU, AND WHERE BPIU WAS REMOVED, REINSTALLING BPIU IN DUCT OR INSIDE WSHWP AS APPLICABLE.

NOTE CONCERNING EXISTING DUCT SYSTEMS:

THIS PLAN SHOWS CERTAIN PIECES OF MECHANICAL EQUIPMENT OR SYSTEMS TO BE REMOVED AND/OR REPLACED. THERE ARE EXISTING DUCT SYSTEMS ASSOCIATED WITH THIS EQUIPMENT THAT ARE NOT SHOWN ON THESE PLANS, AND THESE DUCT SYSTEMS ARE EXISTING TO REMAIN. THERE ARE ALSO OTHER DUCTWORK SYSTEMS FOR OTHER EXISTING TO REMAIN HVAC SYSTEMS THAT ARE NOT SHOWN, AND THESE SYSTEMS AND DUCT ARE EXISTING TO REMAIN.



MECHANICAL DEMOLITION FLOOR PLAN – SECTOR C

1/8" = 1'-0"



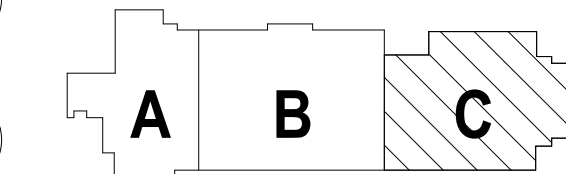
HCS Group 6-1 - HVAC Replacement

COTTON INDIAN ELEMENTARY SCHOOL

1201 OLD CONYERS ROAD, STOCKBRIDGE, GA 30281

CONTRACT DRAWINGS

CLIENT PROJECT NUMBER: 260013



KEY PLAN



CLIENT		
Henry County Board of Education		
DATE	PROJECT NUMBER	
05 / 29 / 2026	260013	
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

MECHANICAL
DEMOLITION FLOOR
PLAN – SECTOR C

MD103

$$1/8'' = 1'-0''$$

THIS PLAN SHOWS CERTAIN PIECES OF MECHANICAL EQUIPMENT OR SYSTEMS TO BE REMOVED AND/OR REPLACED. THERE ARE EXISTING DUCT SYSTEMS ASSOCIATED WITH THIS EQUIPMENT THAT ARE NOT SHOWN ON THESE PLANS, AND THESE DUCT SYSTEMS ARE EXISTING TO REMAIN. THERE ARE ALSO OTHER DUCTWORK SYSTEMS FOR OTHER EXISTING TO REMAIN HVAC SYSTEMS THAT ARE NOT SHOWN, AND THESE SYSTEMS AND DUCT ARE EXISTING TO REMAIN.

A. RTAC AND WSPH TAGS INCLUDE NUMBER TO DESIGNATE INDIVIDUAL UNIT, AND INCLUDES ROOM NUMBER TO INDICATE MAIN ROOM SERVED BY EQUIPMENT.

B. ALL CONTROL WORK IS BEING PERFORMED IN THIS CONTRACT BY THE OWNER'S COMPANY, INSTANTAL CONTROL COMPANY (CONTRACTOR CONCEPTS, INC.). INSTALLATION OF CONTROL WIRING/IDC, CONTROLS, THERMISTOR SENSORS, ETC., SHALL BE PERFORMED BY CONTROLS CONTRACTOR.

C. CONTRACTOR IS ADVISED THAT INSTALLED LOCATIONS OF WSPH AND SUPPLY AND RETURN DUCT FREQUENTLY DIFFERED FROM ORIGINAL DESIGN DRAWINGS. CONTRACTOR SHALL FIELD VERIFY WSPH AND DUCT LOCATIONS PRIOR TO ORDERING WSPHS TO CONFIRM CORRECT SIZE / RETURN CONNECTION ARRANGEMENT.

1. MOUNT NEW TEMPERATURE/HUMIDITY SENSOR IN SAME LOCATION AS SENSORS REMOVED DURING DECOMMISSION.
2. LOCATION SHOWN FOR SUPPLY AIR DUCT AND RETURN AIR DUCT IS SUPPLY AIR DUCT. LOCATION SHOWN FOR EXHAUST ARE BASED ON ORIGINAL DRAWINGS, AND MAY NOT REPRESENT THE ACTUAL LOCATIONS. CONTRACTOR SHALL FIELD VERIFY EXACT DUCT POSITIONS AND LOCATIONS TO CORRECTLY ORDER REPLACEMENT EQUIPMENT.
3. CONTRACT DUCT SHALL INSTALL NEW INTERNALLY LINED, ELASTOMERIC ARMAREX® EXTERIOR DUCTWORK FROM RTAC CONNECTION IN SAME LOCATION AS DUCT REMOVED DURING DECOMMISSION. DUCT SHALL BE INSTALLED TO MATCH TO MATCH WALL, BEFORE INSTALLATION OF INSULATION. CONTRACTOR SHALL INSPECT ALL DUCT PENETRATIONS INTO THE COMMODOROUS AREAS TO ENSURE THE PENETRATIONS ARE WATER TIGHT.
4. PROVIDE NEW RTAC ON EXISTING ROOF CURB. CONTRACTOR SHALL FIELD VERIFY EXISTING CURB DIMENSIONS TO PROVIDE CURB ADAPTER AS REQUIRED TO TRANSITION FROM CURB DIMENSIONS TO NEW CURB DIMENSIONS. SEE ROOFTOP AIR CONDITIONING UNIT DATA.
5. INSTALL NEW HORIZONTAL, WSHPS AS COMPENSATION TO "HORIZONTAL" SLOPE DISCHARGE LOCATION. CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS FOR EACH WSHSP AND SHALL NOT ORDER EQUIPMENT UNTIL FIELD VERIFYING THE EXISTING DISCHARGE LOCATION. CONTRACTOR SHALL VERIFY COMPATIBILITY WITH EXISTING CONDITIONS. THE RETURN/DISCHARGE ARRANGEMENT SHOWN FOR EXAMPLE, RIGHT RETURN/DISCHARGE OR LEFT RETURN/DISCHARGE (AND THE WSHSP LOCATION AND SUPPLY AND RETURN DUCT LOCATION IS BASED ON THE EXISTING DISCHARGE LOCATION. CONTRACTOR SHALL INSTALL THE INSTALLED RETURN/DISCHARGE ARRANGEMENT OR LOCATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DISCHARGE LOCATIONS. CONTRACTOR SHALL FIELD VERIFY EXISTENCE TO EXISTING SUPPLY DUCT LOCATION, FIELD VERIFYING EXISTENCE TO EXISTING RETURN DUCT LOCATION. CONTRACTOR SHALL ALLOW FOR RETURN DUCT LOCATIONS TO NEW RETURN PLENUM. SLOPE WSHSP TO DRAIN SIDE AND INSTALL AT LEAST 1/4" ALLOWANCE FOR DRAINAGE. CONTRACTOR SHALL FIELD VERIFY CONNECTION, FOR EACH NEW WSHSP, CONNECT NEW HOSE KIT TO NEW WSHSP AND CONNECT NEW HOSE KIT TO NEW LOOP SUPPLY AND NEW LOOP PIPE. CONTRACTOR SHALL FIELD VERIFY WSHSP. SEE WSHSP HOSE KIT AND PIPING TABLE, FOR ARRANGEMENT AND HOSE KIT SIZE. TRANSITION FROM NEW HOSE KIT SIZE TO WSHSP AND LOOP PIPE SIZE. CONTRACTOR SHALL FIELD VERIFY WSHSP AND LOOP PIPE IS SUPPLY AND WHICH PIPE IS RETURN PRIOR TO NEW HOSE KIT. CONTRACTOR SHALL FIELD VERIFY WSHSP FOR CLARITY. FOR EACH NEW WSHSP, PROVIDE NEW CONDENSATE DRAIN TRAP ASHOWN IN CONDENSATE DRAIN TRAP TABLE. IF NEW WSHSP IS PROVIDED WITH CONDENSATE DRAIN TRAP, CONTRACTOR SHALL NOT PROVIDE EXTERNAL TRAP. CONDENSATE TRAP AND PIPE SIZE SHALL BE 3/4". INSULATE NEW TRAP AND NEW PIPING NEW WSHSP EXTERIOR. CONTRACTOR SHALL FIELD VERIFY CONDENSATE PIPING SHALL BE COPPER. REMOVE CONDENSATE PIPING TO EXISTING DISPOSAL LOCATION. CONTRACTOR SHALL FIELD VERIFY EXISTING DISPOSAL LOCATION.

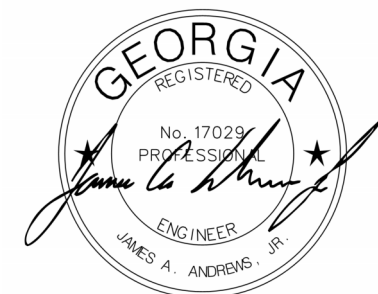
**HCS Group 6-1 - HVAC Replacement
COTTON INDIAN ELEMENTARY SCHOOL**

1201 OLD CONYERS ROAD, STOCKBRIDGE, GA 30281

CLIENT PROJECT NUMBER: 260013



KEY PLAN

[illegible]

CHECKED BY: WMH
DRAWN BY: BCS

MECHANICAL NEW WORK FLOOR PLAN – SECTOR A

M101

NOTES: (THIS SHEET ONLY)

1. MOUNT NEW TEMPERATURE SENSOR IN SAME LOCATION AS SENSORS REMOVED DURING DEMOLITION.
2. INSTALL NEW OUTDOOR AIR INTAKE ON ROOF IN SAME LOCATION AS SUPPLY FAN REMOVED DURING DEMOLITION. PROVIDE ROOF CURB ADAPTER AS REQUIRED TO MOUNT TO EXISTING CURB.
3. INSTALL NEW HORIZONTAL WSPHS ACCORDING TO "HORIZONTAL WSPH INSTALLATION DETAIL". CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS FOR EACH WSPH AND SHALL NOT PROCEED WITH INSTALLMENT UNTIL CONDITIONS ARE SATISFACTORY. RETURN/DISCHARGE ARRANGEMENT THAT IS MOST COMPATIBLE WITH EXISTING CONDITIONS. THE RETURN/DISCHARGE ARRANGEMENT SHOWN FOR EXAMPLE, RIGHT RETURN/RETURN DISCHARGE OR LEFT RETURN/RETURN DISCHARGE) AND THE WSPH LOCATION AND SUPPLY AND RETURN DUCT LOCATION IS BASED ON THE CONTRACTOR'S FIELD VERIFICATION. IF NECESSARILY THE INSTALLED RETURN/DISCHARGE ARRANGEMENT OR LOCATIONS, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DUCT AND PIPE CONDITIONS, TRANSITION FROM WSPH SUPPLY CONNECTION TO EXISTING SUPPLY DUCT, FIELD VERIFYING EXISTING DUCT SIZE, WHERE RETURN DUCTS ARE SHOWN. CONTRACTOR SHALL FIELD VERIFY EXISTING DUCT SIZES TO NEW RETURN PLENUM, SLOPE WSPH TO DRAIN SIDE AND INSTALL AT ELEVATION TO ALLOW PROPER CONDENSATE SLOPE TO DRAIN. CONNECTION FOR EACH NEW WSPH, CONNECT NEW HOSE KIT TO NEW WSPH AND CONNECT NEW HOSE KIT TO NEW LOOP SUPPLY DUCT. FIELD VERIFY PIPING DETAIL FOR EACH WSPH. FIELD VERIFY SEE WSPH HOSE KIT AND PIPING DETAIL FOR ARRANGEMENT AND HOSE KIT SIZE. TRANSITION FROM NEW HOSE KIT SIZE TO WSPH DUCT SIZE, FIELD VERIFY. FIELD VERIFY WHICH LOOP PIPE IS SUPPLY AND WHICH PIPE IS RETURN RETURN TO CONNECTING HOSE KITS. NEW LOOP PIPING NOT SHOWN FOR CLARIFICATION. EACH NEW WSPH SHALL BE INSTALLED TO NEW DRAIN TRAP AS SHOWN IN CONDENSATE DRAIN TRAP DETAIL. IF NEW WSPH IS PROVIDED WITH INTERNAL TRAP, CONTRACTOR SHALL PROVIDE 1/2" CONDENSATE DRAIN PIPING WITH 1/2" SLOPE AND PIPE SIZE SHALL BE 3/4". INSULATE NEW TRAP AND NEW PIPING WITH ARMAFLEX INSULATION. ALL NEW CONDENSATE DRAIN PIPING SHALL BE CORROSION RESISTANT. FIELD VERIFY RETURN/DISCHARGE INTO EXISTING CONDENSATE DRAIN PIPING OR EXISTING DISPOSAL LOCATION.
4. EXISTING OUTDOOR AIR DUCTWORK TO REMAIN (TYP.).
5. SEE SHEET M103 FOR OUTDOOR AIR DUCTWORK CONTINUATION.
6. EXISTING OUTDOOR AIR DUCT DROPS FOR CONNECTION TO EXISTING RETURN AIR DUCT OR PLENUM AT UP. FIELD VERIFY CLIMATE ZONE AND OUTDOOR AIR FLOW RATE. FIELD VERIFY FOR SCHEDULED OUTDOOR AIRFLOW. PROVIDE NEW MVD IF EXISTING MVD IS MISSING OR INOPERABLE.
7. EXISTING OUTDOOR AIR DUCT RISERS TO ROOF VENTILATOR TO REMAIN. TRANSITION/EXIST/EXISTING DUCT AS REQUIRED AND CONNECT TO NEW VENTILATOR. FIELD VERIFY EXISTING DUCT SIZE.
8. REINSTALL NEEDLEPOINT BIPOLAR IONIZATION UNIT (NPBIU) REPAIR/REPLACE DURING DEMOLITION. REINSTALL THE HEAT PUMP (WSPH). INSTALL IN LOCATION (I.E. AT FAN INLET OR IN DUCTWORK) NPBIU WAS REMOVED FROM DEMOLISHED WSPH.
9. PROVIDE NEW NEEDLEPOINT BIPOLAR IONIZATION UNIT FOR THIS WATER SOURCE HEAT PUMP.

THIS PLAN SHOWS CERTAIN PIECES OF MECHANICAL EQUIPMENT OR SYSTEMS TO BE REMOVED AND/OR REPLACED. THERE ARE EXISTING DUCT SYSTEMS ASSOCIATED WITH THIS EQUIPMENT THAT ARE NOT SHOWN ON THESE PLANS, AND THESE DUCT SYSTEMS ARE EXISTING TO REMAIN. THERE ARE ALSO OTHER DUCTWORK SYSTEMS FOR OTHER EXISTING TO REMAIN HVAC SYSTEMS THAT ARE NOT SHOWN, AND THESE SYSTEMS AND DUCT ARE EXISTING TO REMAIN.



www.pbk.com

GRIFFIN, GA
770-227-5473

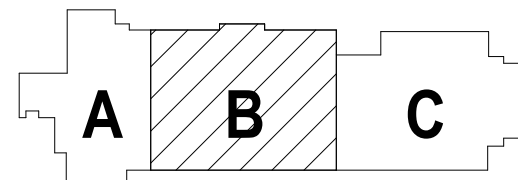
AH & P
**CONSULTING
ENGINEERS**

**HCS Group 6-1 - HVAC Replacement
COTTON INDIAN ELEMENTARY SCHOOL**

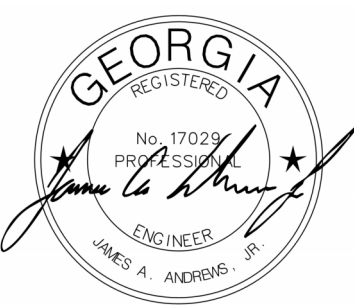
1201 OLD CONYERS ROAD, STOCKBRIDGE, GA 30281

CONTRACT DRAWINGS

CLIENT PROJECT NUMBER: 260013



KEY PLAN



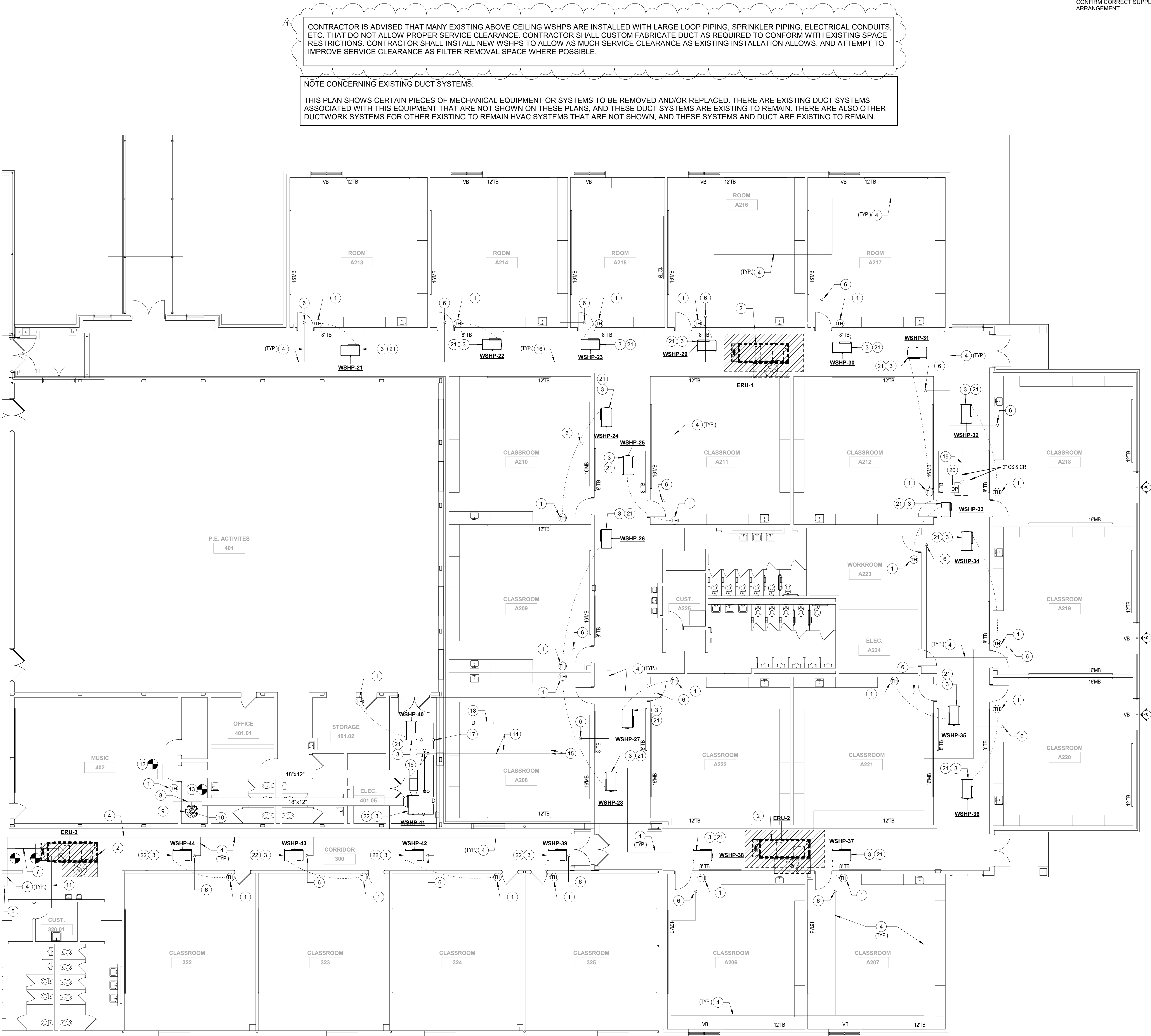
CLIENT		
Henry County Board of Education		
DATE	PROJECT NUMBER	
05 / 29 / 2026	260013	
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

MECHANICAL NEW WORK FLOOR PLAN – SECTOR B

M102

MECHANICAL NEW WORK FLOOR PLAN – SECTOR B

$$\frac{1}{8}'' = 1'-0''$$



CONTRACTOR IS ADVISED THAT MANY EXISTING ABOVE CEILING WSHPS ARE INSTALLED WITH LARGE LOOP PIPING, SPRINKLER PIPING, ELECTRICAL CONDUITS, ETC. THAT DO NOT ALLOW PROPER SERVICE CLEARANCE. CONTRACTOR SHALL CUSTOM FABRICATE DUCT AS REQUIRED TO CONFORM WITH EXISTING SPACE RESTRICTIONS. CONTRACTOR SHALL INSTALL NEW WSHPS TO ALLOW AS MUCH SERVICE CLEARANCE AS EXISTING INSTALLATION ALLOWS, AND ATTEMPT TO IMPROVE SERVICE CLEARANCE AS FILTER REMOVAL SPACE WHERE POSSIBLE.

NOTE CONCERNING EXISTING DUCT SYSTEMS:
THIS PLAN SHOWS CERTAIN PIECES OF MECHANICAL EQUIPMENT OR SYSTEMS TO BE REMOVED AND/OR REPLACED. THERE ARE EXISTING DUCT SYSTEMS ASSOCIATED WITH THIS EQUIPMENT THAT ARE NOT SHOWN ON THESE PLANS, AND THESE DUCT SYSTEMS ARE EXISTING TO REMAIN. THERE ARE ALSO OTHER DUCTWORK SYSTEMS FOR OTHER EXISTING TO REMAIN HVAC SYSTEMS THAT ARE NOT SHOWN, AND THESE SYSTEMS AND DUCT ARE EXISTING TO REMAIN.

MECHANICAL NEW WORK FLOOR PLAN – SECTOR C
1/8" = 1'-0"

NOTES GENERAL: (THIS SHEET ONLY)

- 1. RTAC AND WSHP TAGS INCLUDE NUMBER TO DESIGNATE INDIVIDUAL UNIT, AND INCLUDES ROOM NUMBER TO INDICATE MAIN ROOM SERVED BY EQUIPMENT.
- 2. ALL CONTROL WORK IS BEING PERFORMED IN THIS CONTRACT BY THE OWNER'S COUNTY-WIDE CONTROL COMPANY (CONTROL CONCEPTS, INC.). INSTALLATION OF CONTROL WIRING/DDC CONTROLLERS, TEMPERATURE SENSORS, ETC., SHALL BE PERFORMED BY CONTROLS CONTRACTOR.
- 3. CONTRACTOR IS ADVISED THAT INSTALLED LOCATIONS OF WSHP, AND SUPPLY AND RETURN DUCT FREQUENTLY DIFFERED FROM ORIGINAL DESIGN DRAWINGS. CONTRACTOR SHALL FIELD VERIFY WSHP AND DUCT LOCATIONS PRIOR TO ORDERING WSHPS TO CONFIRM CORRECT SUPPLY / RETURN CONNECTION ARRANGEMENT.

NOTES: (THIS SHEET ONLY)

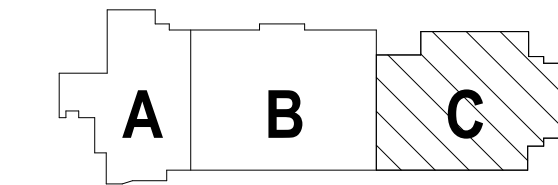
- 1. MOUNT NEW TEMPERATURE/HUMIDITY SENSOR IN SAME LOCATION AS SENSORS REMOVED DURING DEMOLITION.
- 2. PROVIDE NEW ROOF MOUNTED ENERGY RECOVER UNIT ON EXISTING ROOF CURB (NEW UNIT IS SHOWN DASHED). EXISTING ROOF CURB TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING CURB DIMENSIONS. PROVIDE CURB ADAPTER AS REQUIRED TO TRANSITION FROM ERU BASE DIMENSIONS TO ROOF CURB DIMENSIONS. BASIS OF DESIGN ERU IS SLIGHTLY SHORTER THAN EXISTING UNIT. LOCATION OF NEW ERU ON EXISTING CURB IS SYMBOLIC. EXACT LOCATION TO BE DETERMINED BY CONTRACTOR. PROVIDE 1-1/2" TRAPPED COPPER CONDENSATE PIPE AND ROOF MOUNTED CONDENSATE SUPPORTS TO DISCHARGE INTO NEAREST ROOF DRAIN.
- 3. INSTALL NEW HORIZONTAL WSHPS ACCORDING TO "HORIZONTAL WSHP INSTALLATION DETAIL". CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS FOR EACH WSHP AND SHALL NOT ORDER EQUIPMENT UNTIL FIELD VERIFYING THE RETURN/DISCHARGE ARRANGEMENT THAT IS MOST COMPATIBLE WITH EXISTING CONDITIONS. THE RETURN/DISCHARGE ARRANGEMENT SHOWN (FOR EXAMPLE, RIGHT RETURN/END DISCHARGE OR LEFT RETURN/END DISCHARGE) AND THE WSHP LOCATION AND SUPPLY AND RETURN DUCT LOCATION IS BASED ON ORIGINAL CONTRACT DOCUMENTS AND IS NOT NECESSARILY THE INSTALLED RETURN/DISCHARGE ARRANGEMENT OR LOCATIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DUCT AND PIPE LOCATIONS. TRANSITION FROM WSHP SUPPLY CONNECTION TO EXISTING SUPPLY DUCT, FIELD VERIFYING EXISTING DUCT SIZE. WHERE RETURN DUCTS ARE SHOWN, TRANSITION FROM EXISTING RETURN DUCT DIMENSIONS TO NEW RETURN PLENUM. SLOPE WSHP TO DRAIN SIDE AND INSTALL AT ELEVATION TO ALLOW PROPER CONDENSATE SLOPE TO DRAIN CONNECTION. FOR EACH NEW WSHP, CONNECT NEW HOSE KIT TO NEW WSHP AND CONNECT NEW HOSE KIT TO NEW LOOP SUPPLY AND RETURN PIPING ROUTED FROM WSHP TO MAIN LOOP PIPE. SEE WSHP HOSE KIT AND PIPING DETAIL FOR ARRANGEMENT AND HOSE KIT SIZE. TRANSITION FROM NEW HOSE KIT SIZE TO WSHP AND LOOP PIPE SIZE. CONTRACTOR SHALL FIELD VERIFY WHICH LOOP PIPE IS SUPPLY AND WHICH PIPE IS RETURN PRIOR TO CONNECTING HOSE KITS. NEW LOOP PIPING NOT SHOWN FOR CLARITY. FOR EACH NEW WSHP, PROVIDE NEW CONDENSATE DRAIN TRAP AS SHOWN IN CONDENSATE DRAIN TRAP DETAIL. IF NEW WSHP IS PROVIDED WITH INTERNAL TRAP, CONTRACTOR SHALL NOT PROVIDE EXTERNAL TRAP. CONDENSATE TRAP AND PIPE SIZE SHALL BE 3/4". INSULATE NEW TRAP AND NEW PIPING WITH ARMAFLEX INSULATION. ALL NEW CONDENSATE DRAIN PIPING SHALL BE COPPER. ROUTE CONDENSATE PIPING TO DISCHARGE INTO EXISTING CONDENSATE DRAIN PIPING OR EXISTING DISPOSAL LOCATION.
- 4. EXISTING OUTSIDE AIR DUCTWORK TO REMAIN (TYP.).
- 5. SEE SHEET M102 FOR OUTDOOR AIR DUCTWORK CONTINUATION.
- 6. EXISTING OUTDOOR AIR DUCT DROPS FOR CONNECTION TO EXISTING RETURN AIR DUCT OR PLENUM AT UNIT. FIELD VERIFY EXACT LOCATION AND DUCT SIZE. BALANCE EXISTING MVD FOR SCHEDULED OUTDOOR AIRFLOW. PROVIDE NEW MVD IF EXISTING MVD IS MISSING OR INOPERABLE.
- 7. PROVIDE NEW OUTDOOR AIR DUCT TO REPLACE DUCT AND WSHP REMOVED DURING DEMOLITION. FIELD VERIFY EXISTING SIZE AND LOCATION. INSULATE EXTERNALLY WITH 2 3/16" THICK DUCT WRAP.
- 8. EXISTING RETURN DUCT TO REMAIN.
- 9. EXISTING ROOF MOUNTED INTAKE VENTILATOR TO REMAIN FOR REUSE.
- 10. EXISTING OUTSIDE AIR DUCT RISING TO ROOF VENTILATOR TO REMAIN. BALANCE EXISTING MVD FOR SCHEDULED OUTSIDE AIRFLOW. PROVIDE NEW MVD IF EXISTING MVD IS MISSING OR INOPERABLE.
- 11. EXISTING ERU RETURN DUCT TO REMAIN.
- 12. CONNECT NEW +/- 18"x12" SUPPLY DUCT TO EXISTING AT THIS APPROXIMATE LOCATION REMAINING FROM DEMOLITION. FIELD VERIFY EXISTING DUCT SIZE AND LOCATION.
- 13. CONNECT NEW +/- 18"x12" RETURN DUCT TO EXISTING AT THIS APPROXIMATE LOCATION REMAINING FROM DEMOLITION. FIELD VERIFY EXISTING DUCT SIZE AND LOCATION.
- 14. EXISTING +/- 1 1/2" LOOP SUPPLY & RETURN PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION & ROUTING.
- 15. FIELD VERIFY EXACT PIPE ROUTING & CONTINUATION AS NECESSARY.
- 16. CONNECT NEW 1" LS & LR PIPING TO EXISTING AND ROUTE FOR CONNECTION TO WSHP IN ACCORDANCE WITH HORIZONTAL WSHP DETAIL.
- 17. ROUTE FULL SIZE CONDENSATE DRAIN LINE FROM WSHP-41 TO DISCHARGE INTO EXISTING CONDENSATE DRAIN PIPING AT THIS APPROXIMATE LOCATION.
- 18. EXISTING CONDENSATE DRAIN PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION AND REWORK PIPING IF NECESSARY TO PROVIDE PROPER DRAINAGE FOR WSHP-41.
- 19. EXISTING CS & CR PIPING TO REMAIN. FIELD VERIFY EXACT LOCATION, ROUTING, AND SIZE AS REQUIRED.
- 20. DIFFERENTIAL PRESSURE TRANSMITTER FOR CONTROL OF VFDs SERVING LOOP PUMPS. SEE SPECIFICATIONS.
- 21. REINSTALL NEEDLEPOINT BIPOLAR IONIZATION UNIT (NPBIU) REMOVED DURING DEMOLITION IN NEW WATER SOURCE HEAT PUMP (WSHP). INSTALL IN LOCATION (I.E. AT FAN INLET OR IN DUCTWORK) NPBIU WAS REMOVED FROM DEMOLISHED WSHP.
- 22. PROVIDE NEW NEEDLEPOINT BIPOLAR IONIZATION UNIT FOR THIS WATER SOURCE HEAT PUMP.



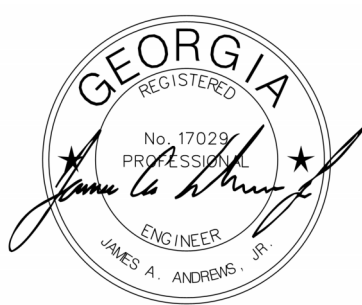
HCS Group 6-1 - HVAC Replacement
COTTON INDIAN ELEMENTARY SCHOOL

1201 OLD CONYERS ROAD, STOCKBRIDGE, GA 30281

CONTRACT DRAWINGS
CLIENT PROJECT NUMBER: 260013



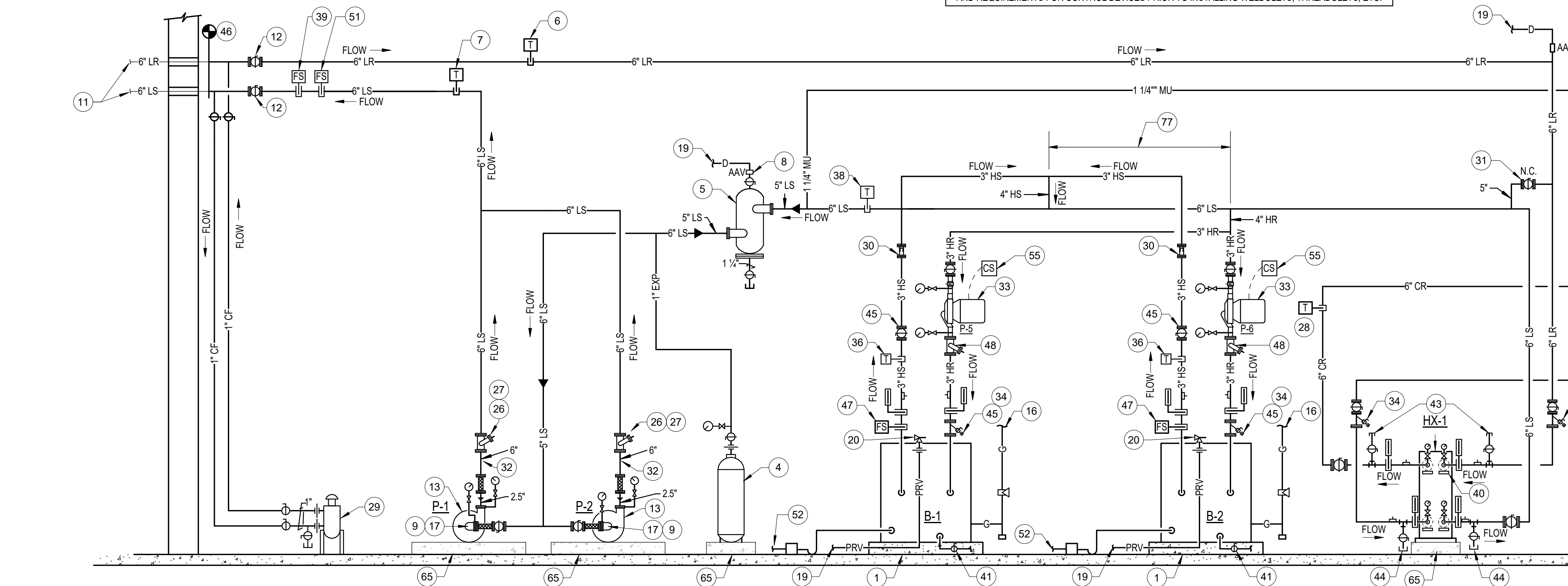
KEY PLAN



CLIENT		
Henry County Board of Education		
DATE	PROJECT NUMBER	
05 / 29 / 2026	260013	
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

MECHANICAL NEW
WORK FLOOR PLAN –
SECTOR C

M103

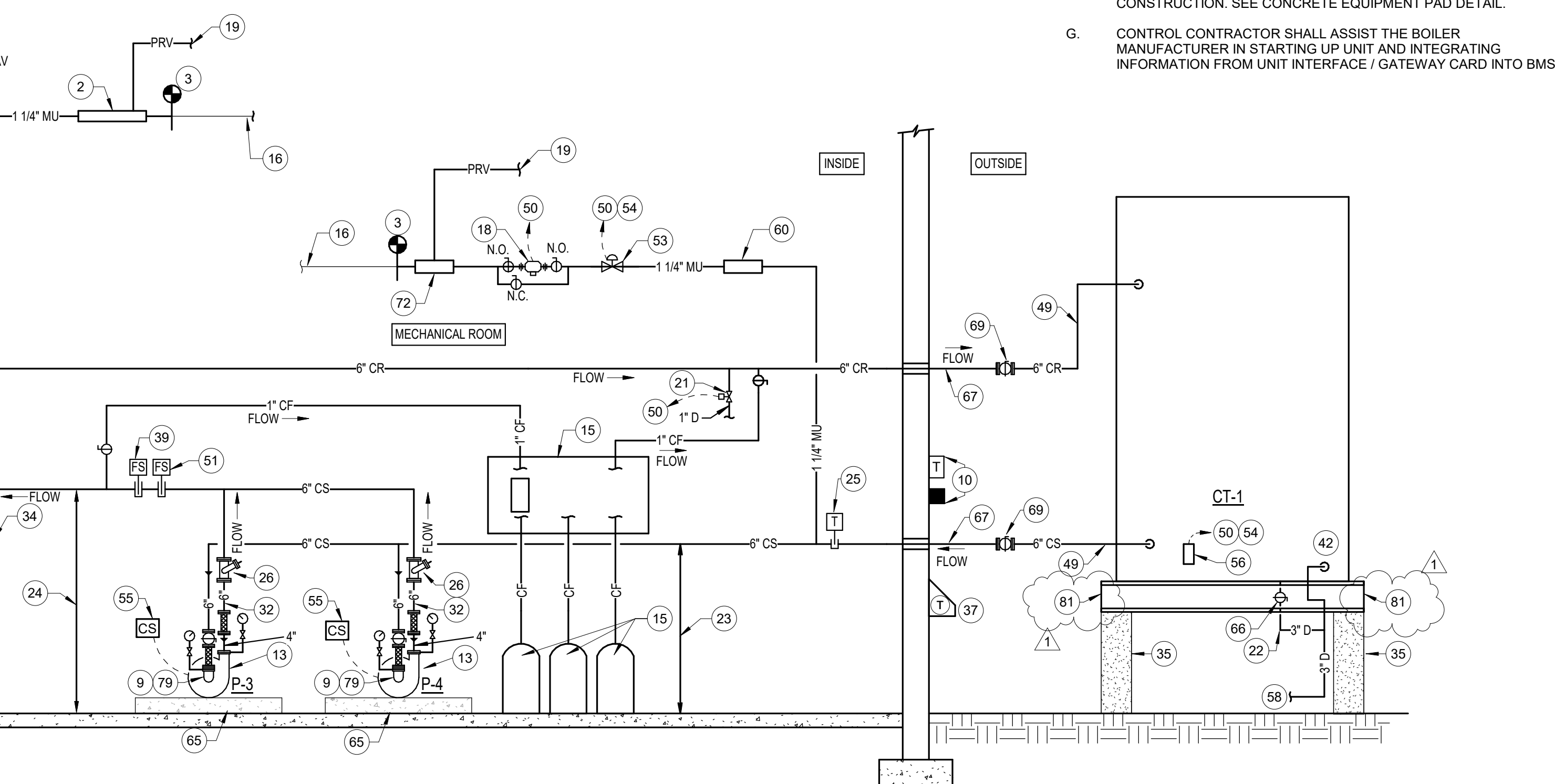
$$1/2'' = 1'-0''$$


LOOP AND COOLING WATER NEW WORK PIPING SCHEMATIC
NOT TO SCALE

- PROVIDE NEW CONCRETE PAD BELOW EQUIPMENT. SEE FLOOR PLAN FOR EQUIPMENT PAD SIZE AND LOCATIONS. DO NOT CONNECT TO ANY EXISTING COOLING WATER PIPING. SEE SPECS FOR THICKNESS AND CONSTRUCTION. SEE CONCRETE EQUIPMENT PAD DETAIL.
2. LOOP WATER MAKE-UP WATER STATION. SEE LOOP WATER MAKE UP WATER STATION DETAIL.
3. CONNECT 1" MAKE UP WATER STATION PIPING TO DOMESTIC WATER PIPING AT THIS APPROXIMATE LOCATION. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
4. VERTICAL BLADDER TYPE PRESSURIZED ASME STAMPED EXPANSION TANK WITH MINIMUM 34 GALLON ACCEPTANCE VOLUME AND 67 GALLON TOTAL VOLUME. PRE-CHARGE TANK TO 15 PSIG. TACO MODEL #C8X 254-125.
5. TACO MODEL #ACT-5-125 TANGENTIAL ASME STAMPED AIR SEPARATOR WITH 5" CONNECTIONS AND DRAIN. SEE AIR SEPARATOR DETAIL. MAXIMUM PRESSURE DROP THRU AIR SEPARATOR SHALL NOT EXCEED 2 FT. HEAD AT 341 GPM. MOUNT AIR SEPARATOR AS HIGH AS POSSIBLE.
6. LOOP WATER RETURN TEMPERATURE SENSOR
7. LOOP WATER SUPPLY TEMPERATURE SENSOR
8. HIGH CAPACITY AUTOMATIC AIR VENT WITH MINIMUM 10 SCFM CAPACITY AT 15 PSIG. TACO MODEL #40E. PIPE TO DRAIN.
9. ENSURE ADEQUATE SPACE IS ALLOWED FOR STRAINER REMOVAL FROM Suction DIFFUSER (TYPICAL).
10. POWER CONNECTION BOX AND FIXED SETPOINT AMBIENT SENSING THERMOSTAT FOR ELECTRIC HEAT TAPE CONTROL AND TEMPERATURE.
11. EXISTING LOOP WATER PIPING CONTINUES TO SERVE WSHPS IN BUILDING. FIELD VERIFY EXIST ROUTING.
12. NEW BUTTERFLY VALVE IN INDICATED PIPING INSIDE MECHANICAL ROOM.
13. BASE MOUNTED END Suction PUMP. SEE BASE MOUNTED END Suction PUMP DETAIL.
13. 8" DOUBLE-WALL TYPE 1A-294C FLUE RISER FROM BOILER OFFSET FLUE AS REQUIRED TO MISS PIPING. ROUTE NEW FLUES UP THRU EXISTING ROOF OPENING AND CURB. CONTRACTOR TO SEAL AROUND BOTH OF EXISTING BOILER FLUE WITH 22 GAUGE STEEL METAL AND SEAL WATERTIGHT. SEE FLUE THRU ROOF DETAIL. IN THE EVENT CONTRACTOR CAN'T REUSE EXISTING ROOF OPENING, PATCH EXISTING OPENING AND PROVIDE NEW ROOF CURB AND NEW FLUE PENETRATION THRU ROOF.
15. COOLING WATER CHEMICAL TREATMENT TANKS (2 BIODICE AND 1 CORROSION INHIBITOR) AND WALL MOUNTED CONTROLLER. SEE COOLING WATER CHEMICAL TREATMENT PIPING DETAIL.
16. SEE PLUMBING PLANS FOR CONTINUATION.
17. Suction DIFFUSER WITH SUPPORT FOOT, STRAINER, AND MAGNET. PROVIDE TEMPORARY FINE MESH STRAINER DURING START-UP. TACO MODEL #SD00040-3) WITH 6" SYSTEM CONNECTION. 4" PUMP CONNECTION.
18. WATER METER WITH GPM OUTPUT SIGNAL TO COOLING TOWER CHEMICAL TREATMENT PANEL.
19. ROUTE ALL DRAIN AND PRESSURE RELIEF VALVE PIPING TO NEAREST FLOOR DRAIN. FIELD VERIFY EXIST DRAIN LOCATION. DO NOT ROUTE PIPING IN LOCATIONS THAT INTERFERES WITH SERVICE ACCESS.
20. ASME PRESSURE RELIEF VALVE WITH FULL SIZE DISCHARGE PIPING TO NEAREST FLOOR DRAIN. PROVIDE 50 PSIG PRESSURE RELIEF VALVE.
21. DIAPHRAGM TYPE 2-WAY, 2-POSITION BLEED SOLENOID VALVE.
22. 21" FULL SIZE (MINIMUM 3") SCHEDULE 40 PVC SLOPED DISCHARGE DRAIN PIPING IS ROUTED ABOVE GROUND AND UNDER COOLING TOWER FLOOR FROM BOTTOM OF BASIN CONNECTION TO OVERFLOW. PROVIDE BUTTERFLY VALVE AT STEEL CONNECTION. SUPPORT ALL PIPE UNDER TOWER WITH DRAIN CLEVIS HANGERS.
23. MAINTAIN ALL PUMP Suction PIPING AS LOW AS POSSIBLE TO INSURE FLOODED Suction OF COOLING WATER PUMPS. DO NOT EXCEED EXISTING HEIGHT.
24. MOUNT COOLING SUPPLY FROM PUMP DISCHARGE TO DROP AT HEAT EXCHANGER AS LOW AS POSSIBLE (BUT NOT LESS THAN 6" A.F.F.) TO ALLOW MAINTENANCE ACCESS TO COOLING WATER PUMPS.
25. COOLING WATER SUPPLY TEMPERATURE SENSOR.
26. 6" TRIPLE TAP VALVE. TACO MODEL #MPV-600.
27. CONTRACTOR SHALL FULLY OPEN TRIPLE TAP VALVE ON LOOP PUMPS P-1 AND P-2 SINCE VALVE IS NOT USED FOR BALANCING PURPOSES.
28. COOLING WATER RETURN TEMPERATURE SENSOR.
29. ONE SHOT CHEMICAL FEEDER. SEE ONE SHOT CHEMICAL FEED SYSTEM DETAIL.
30. 3" WAFFER-STYLE AUTOMATIC FLOW CONTROL VALVE TO MAINTAIN CONSTANT 85 GPM THRU BOILER.

- | | | | | | |
|-----|--|---|-----|--|--|
| | 5' LOOP WATER BYPASS PIPE AND BUTTERFLY VALVE FOR ISOLATING HEAT EXCHANGER DURING FLUSHING. | | 60. | 1" SENSUS PERL WATER METER FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. CONTACT HENRY COUNTY WATER AND SEWER AUTHORITY (HCVSA) FOR REDUCING SEWAGE RATE FOR COOLING TOWER MAKE UP. USE TO VERIFY FLOW. (CONTACT 1-800-638-3748) | |
| 32. | PROVIDE "SPOOL PIECE" (BETWEEN FLEXIBLE PIPE CONNECTION AND TRIPLE DUTY VALVE) (OR PROVIDE REDUCING ELBOW, AS REQUIRED). | | 61. | NEW BASIN HEATER CONTROL PANEL MOUNTED ON SUPPORT PIER. | |
| 33. | INLINE PUMPS ARE SHOWN ON THE PIPING SCHEMATIC MOUNTED VERTICALLY FOR CLARITY, BUT THESE PUMPS SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE FLOOR PLAN, WITH THE MOTOR VERTICALLY ABOVE THE IMPELLER. | | 62. | EXISTING COMBUSTION AIR LOUVERS (2 EACH, STACKED CONFIGURATION) TO REMAIN. | |
| 34. | PROVIDE TEMPORARY FINE MESH START-UP SCREEN IN STRAINER. REPLACE WITH STANDARD STRAINER MESH AFTER CLEANING AND START UP OF PIPING SYSTEM. ORIENT STRAINER SO THAT BLOWDOWN VALVE AND STRAINER COVERS ARE EASILY ACCESSIBLE / REMOVABLE. | | 63. | EXISTING DOMESTIC WATER ENTRANCE RISER, FIELD VERIFY EXACT LOCATION AND MAINTAIN 12" CLEAR FROM RISER TO PUMP. | |
| 35. | EXISTING CONCRETE COOLING TOWER SUPPORTS PIERS TO REMAIN. | | 64. | EXISTING ELECTRICAL TRANSFORMER. | |
| 36. | HOT WATER SUPPLY TEMPERATURE SENSOR. | | 65. | EXISTING CONCRETE EQUIPMENT PAD TO REMAIN. ENLARGE PAD IF NECESSARY TO ACCOMMODATE NEW EQUIPMENT INSTALLATION. | |
| 37. | OUTDOOR AIR DDC TEMPERATURE SENSOR UNDER SUN SHIELD. | | 66. | PROVIDE BOTTOM CONNECTION (NOT SIDE) WITH 3" BUTTERFLY VALVE IN DROP DIRECTLY BELOW BASIN, AND ROUTE TO OVERFLOW PIPE. | |
| 38. | TEMPERATURE SENSOR FURNISHED BY BOILER MANUFACTURER FOR MOUNTING IN LOOP SUPPLY PIPING FOR CONNECTION TO MASTER BOLLERS W/NO PRESS SENSOR. CONTRACTOR SHALL PROVIDE ALL REQUIRED WIRING BETWEEN SENSOR AND BOILER, AND BETWEEN MASTER BOILER AND MEMBER BOILER. MOUNT SENSOR 3' TO 5' FROM POINT WHERE HOT WATER SUPPLY CONNECTS TO LOOP SUPPLY. | | 67. | CONTRACTOR SHALL ROUTE NEW COOLING WATER SUPPLY AND RETURN PIPING FROM COOLING TOWER TO COOLING WATER PUMPS. CONTRACTOR SHALL ROUTE PIPE THROUGH EXISTING WALL PENETRATIONS. | |
| 39. | BACKUP FLOW SWITCH WIRED IN PARALLEL WITH PRIMARY FLOW SWITCH TO VERIFY FLOW. | | 68. | EXISTING FIRE SPRINKLER MAIN TO REMAIN. | |
| 40. | PROVIDE ENGRAVED BAKELITE LABEL AT EACH WATER CONNECTION TO PLATE AND FRAME. LABEL EXCHANGER, LABELS SHALL READ "COOLING TOWER WATER IN," "COOLING TOWER WATER OUT," "LOOP WATER IN," "LOOP WATER OUT." | | 69. | CONTRACTOR SHALL INSTALL ISOLATION VALVE IN COOLING WATER SUPPLY & RETURN PIPING AS INDICATED. | |
| 41. | BALL VALVE AND DRAIN PIPE FOR DRAINING BOILER. | | 70. | EXISTING GAS FIRED UNIT HEATER TO REMAIN. | |
| 42. | FULL SIZE (MINIMUM 3") SCHEDULE 40 PVC OVERFLOW PIPE CONNECTS TO SIDE OF TOWER, DROPS UNDER TOWER AS INDICATED, AND MANIFOLDS WITH BOTTOM COOLING TOWER DRAIN PIPING. COMMON 3" PIPE THEN CONTINUES TO EXISTING DRAIN AS INDICATED. | | 71. | EXISTING FLOOR DRAIN. FIELD VERIFY EXACT LOCATION. | |
| 43. | 1" BALL VALVE AND CAP (UPPER VENT) TO ALLOW MAINTENANCE PERSONNEL TO DRAIN HX-1. | | 72. | COOLING WATER MAKEUP WATER STATION. SEE COOLING WATER MAKE UP WATER STATION DETAIL. | |
| 44. | PROVIDE 1" BALL VALVE WITH HOSE CONNECTION AND CAP. DRAIN SHALL BE USED FOR MAINTENANCE FOR DRAINING EQUIPMENT DURING SERVICING. | | 73. | CARBON MONOXIDE DETECTOR FOR SHUTDOWN OF BOTH BOILERS B-1 & B-2. GAS FIRED UNIT HEATER, WATER HEATER(S) AND ANY OTHER GAS FIRED EQUIPMENT IN MECHANICAL ROOM. SEE SPECS FOR ADDITIONAL INFORMATION. MOUNT 5'-0" AFF. | |
| 45. | BOILER SUPPLY SHUTOFF VALVE AND Y-STRAINER SHALL BE IN VERTICAL PIPE RISE AS CLOSE TO BOILER AS POSSIBLE. TO ALLOW EASY OF MAINTENANCE. | | 74. | BOILER EMERGENCY SHUTDOWN PUSH-BUTTON SWITCH FOR SHUTDOWN OF BOTH BOILERS B-1 AND B-2. SWITCH SHALL BE RED MUSHROOM HEAD TYPE PUSH OFF AND RESET BY PULSED ANGRIN, (SC-0 H0001 K8R05 WITH H0001 K8S MODULE AND HFF0001 K4 CONTACT BLOCK) PROVIDED BAKELITE LABEL ENGRAVED AS FOLLOWS: "BOILER EMERGENCY SHUTDOWN". | |
| 46. | NEW 6" LS & LR PIPE CONNECTS TO EXISTING 6" LS & LR PIPING AT THIS APPROXIMATE LOCATION. | | 75. | MAINTAIN 36" CLEAR FROM EDGE OF BOILER TO PUMPS, WALLS, OTHER BOILERS, ETC. (TYPICAL). DO NOT OBSTRUCT ACCESS WITH PIPING OR CONDUT. | |
| 47. | PROVIDE FIELD MOUNTED FLOW SWITCH FURNISHED BY BOILER MANUFACTURER TO PROVE FLOW THROUGH BOILER. | | 76. | LADDER WITH EXTENSION TO GRADE FOR SERVICING COOLING TOWER MOTOR. | |
| 48. | 3" TRIPLE DUTY VALVE. TACO MODEL HMPV-030. | | 77. | PROVIDE 24" BETWEEN CENTERLINE OF HOT RETURN AND HOT SUPPLY FROM LOOP MAIN TO MAINTAIN PRIMARY / SECONDARY FLOW AND TO PREVENT RECIRCULATING HOT SUPPLY INTO HOT RETURN. | |
| 49. | ALL EXTERIOR COOLING WATER SUPPLY AND RETURN PIPING SHALL BE HEAT TAPED, INSULATED AND JACKETED. SEE EXTERIOR ABOVE GRADE PIPING INSULATION DETAIL. | | 78. | NEW MOTOR STARTERS AND DISCONNECT, BY ELECTRICAL, TO SERVE HEATING WATER PUMPS. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION. | |
| 50. | MECHANICAL CONTRACTOR SHALL INSTALL WIRING FROM CONTROLLERS TO SOLENOID/BLowDOWN VALVES AND WATER METER AND WATER LEVEL CONTROLLER. | | 79. | SUCTION DIFFUSER WITH SUPPORT FOOT, STRAINER, AND MAGNET. PROVIDE TEMPORARY FINE MESH STRAINER DURING START UP. (TACO MODEL #SD080040-5) WITH F SYSTEM CONNECTION, 4" PUMP CONNECTION. | |
| 51. | PRIMARY PADDLE TYPE FLOW SWITCH TO VERIFY FLOW. | | 80. | NEW MOTOR STARTERS AND DISCONNECTS BY ELECTRICAL, TO SERVE COOLING WATER PUMPS. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION. | |
| 52. | ROUTE CONDENSATE DRAIN LINE FROM BOILER VENT SYSTEM AND FROM BOILER DRAIN THRU SCHEDULE 40 PVC PIPING AND THEN THRU CONDENSATE ACID NEUTRALIZER CHT (BY BOILER MANUFACTURER) PIPING DISCHARGING INTO DRAIN DRAIN FIELD VERIFY FLOW DRAIN LOCATION. DO NOT DISCHARGE | 1 | 81. | EXISTING STRUCTURAL STEEL BEAMS SUPPORTING COOLING TOWER TO REMAIN. CONTRACTOR SHALL WIRE BRUSH BEAMS TO MANUFACTURER'S SPECIFICATIONS TO MEET OR EXCEED ALL REQUIREMENTS TO MATCH EXISTING BEAM FINISH COLOR. | |

- A. MECHANICAL ROOM PIPING SYSTEMS SHALL BE ISOLATED, FLUSHED, AND PRESSURE TESTED PRIOR TO CONNECTION TO EXISTING LOOP PIPING SYSTEM. SEE SPECIFICATIONS FOR MORE INFORMATION.
- B. PAINT ALL LOOP SUPPLY AND RETURN PIPING AND COOLING WATER SUPPLY AND RETURN PIPING INSIDE MECHANICAL ROOM. LOOP SUPPLY SHALL BE DARK GREEN, LOOP RETURN SHALL BE EXISTING COLOR, COOLING WATER SUPPLY SHALL BE BLUE AND COOLING RETURN SHALL BE LIGHT BLUE. PROVIDE PIPE LABELS ON ALL PIPES SPECIFIED.
- C. ALL CONTROL WORK IS BEING PERFORMED IN THIS CONTRACT BY THE OWNERS CONTROL COMPANY (CONTROL CONCEPTS, INC.). INSTALLATION OF WIRING: JODC CONTROLLERS, PIPE MOUNTED THERMIST SENSORS, ETC., SHALL BE PERFORMED BY CONTROL CONTRACTOR.
- D. MAINTAIN MINIMUM 24" BETWEEN PUMPS, AND WALLS ON LONG DIMENSION, AND 24" BETWEEN PUMPS AND OTHER PUMPS AND HEAT EXCHANGER ON LONG DIMENSION.
- E. ROUTE ALL DRAIN AND PRESSURE RELIEF VALVE PIPING TO NEAREST FLOOR DRAIN. FIELD VERIFY EXACT DRAIN LOCATION. ROUTE PIPING IN LOCATIONS THAT INTERFERES WITH SERVICE ACCESS.
- F. PROVIDE NEW CONCRETE PADS BELOW NEW EQUIPMENT WHERE INDICATED. FOR NEW PADS, PROVIDE INDIVIDUAL PAD FOR EACH PIECE OF EQUIPMENT OR CONTRACTOR MAY PROVIDE A SINGLE DUAL PURPOSE PAD. PROVIDE 12" MIN. THICKNESS. PADS DO NOT CONFLICT WITH EXISTING FLOOR DRAINS OR OTHER EXISTING CONDITIONS (E.G. PIPE). SEE SPECS FOR THICKNESS AND CONSTRUCTION. SEE CONCRETE EQUIPMENT PAD DETAIL.
- G. CONTROL CONTRACTOR SHALL ASSIST THE BOILER MAINTENANCE CONTRACTOR IN PROVIDING ALL NECESSARY INFORMATION FROM UNIT INTERFACE / GATEWAY CARD INTO BMS.



**HCS Group 6-1 - HVAC Replacement
COTTON INDIAN ELEMENTARY SCHOOL**

11201 OLD CONYERS ROAD, STOCKBRIDGE, GA 30281

CONTRACT DRAWINGS

CLIENT PROJECT NUMBER: 260013



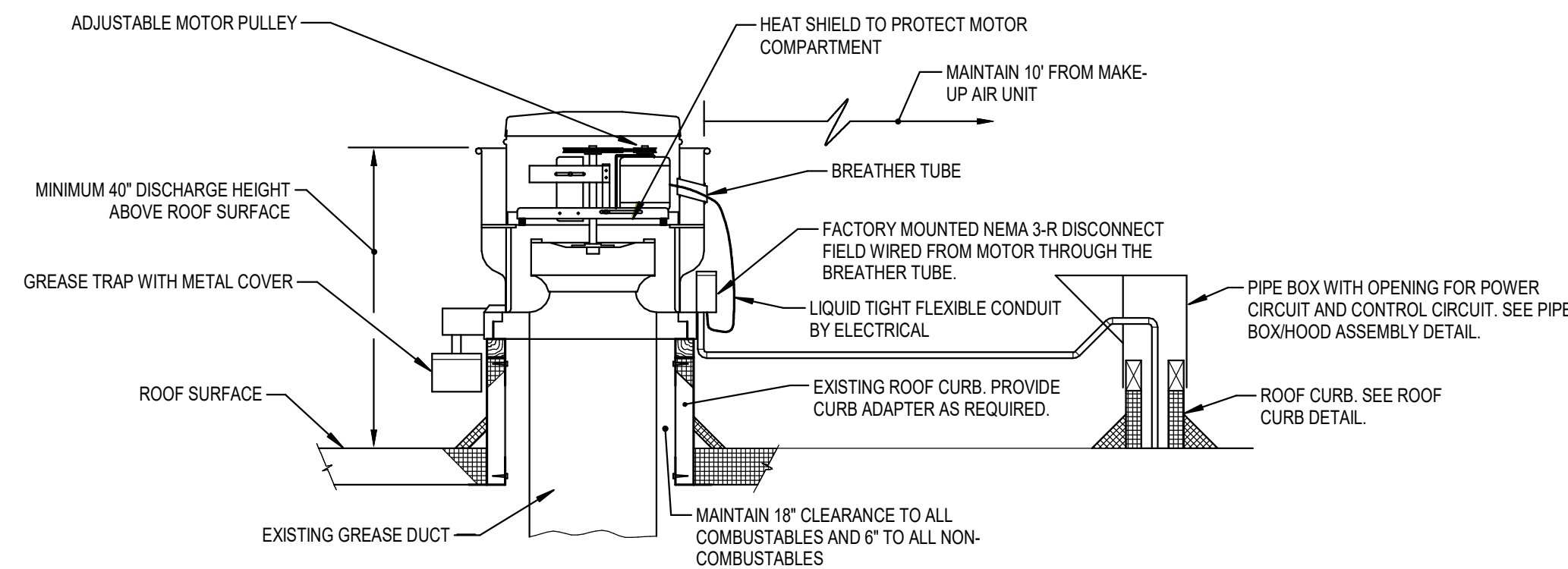
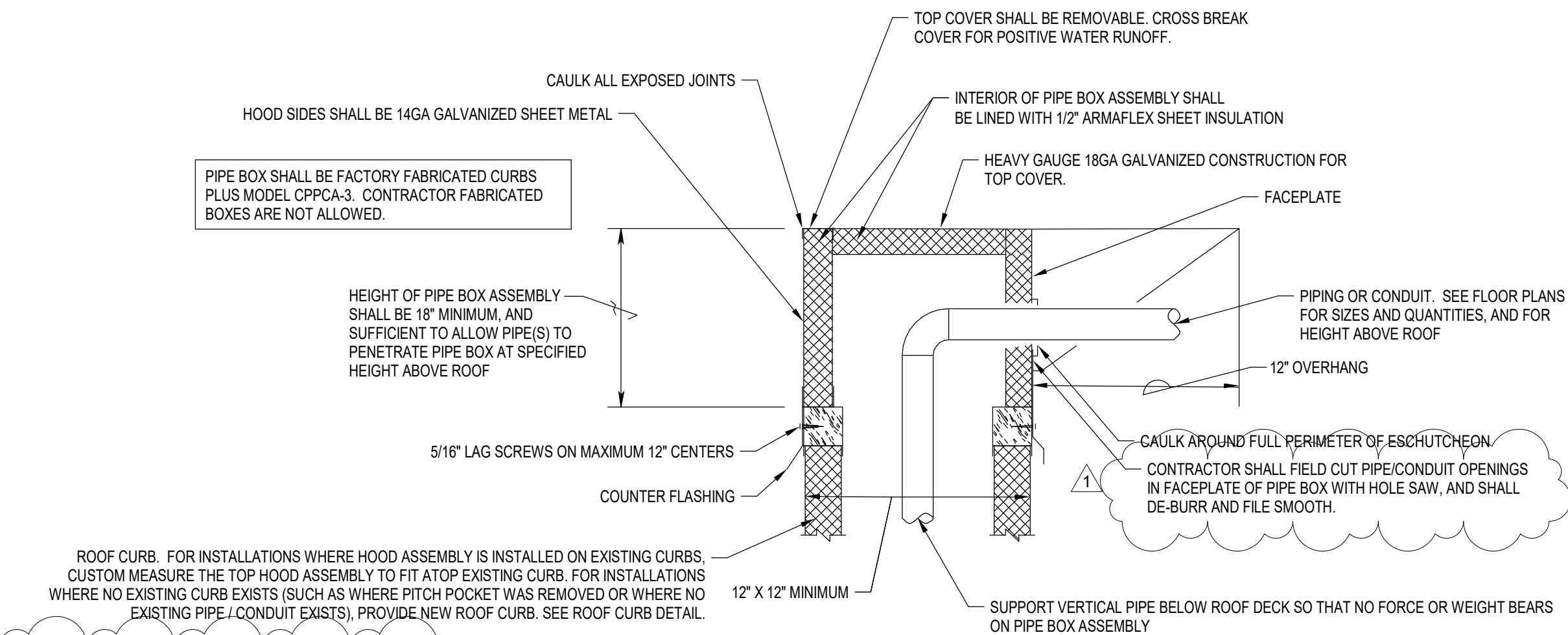
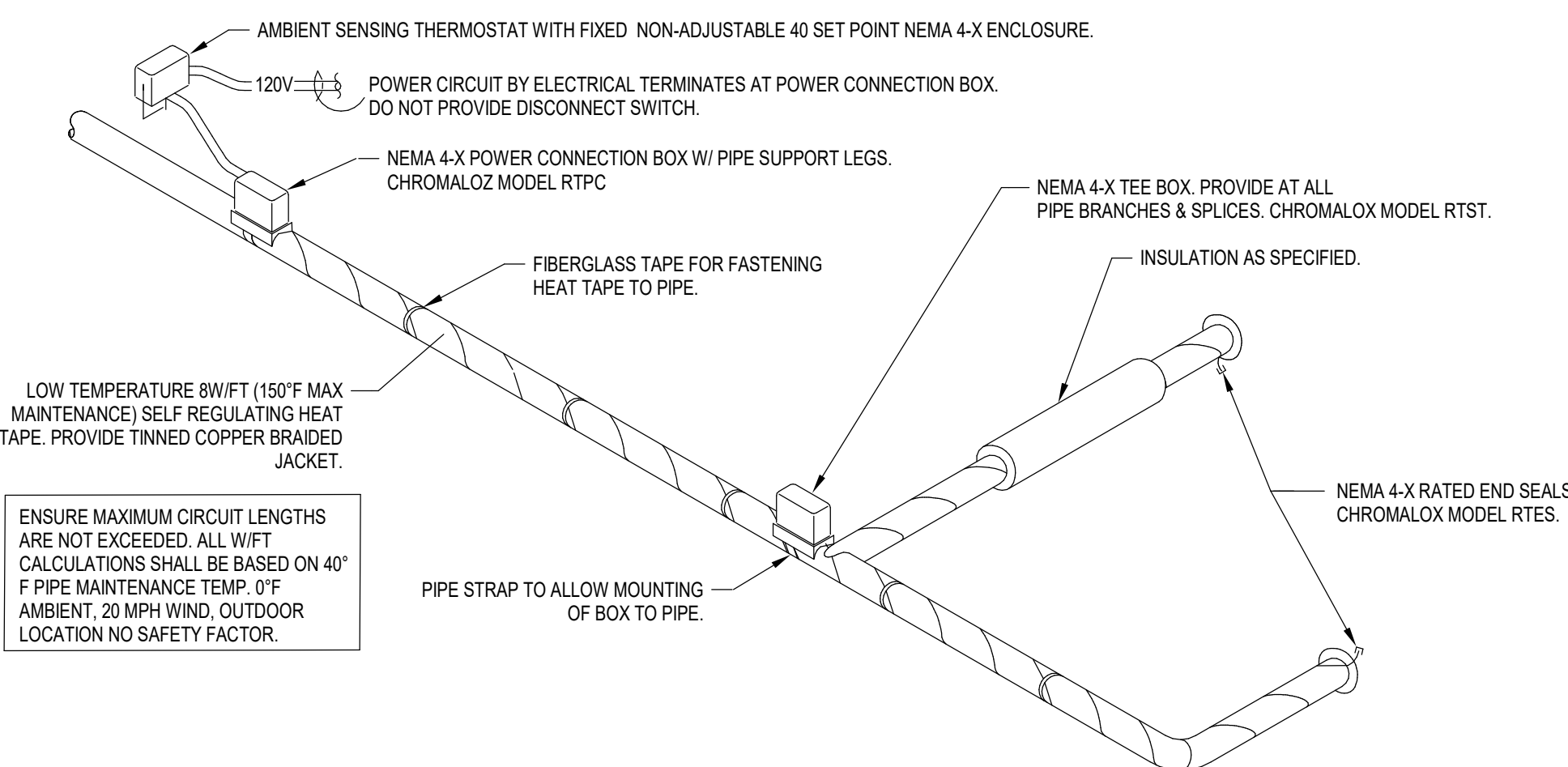
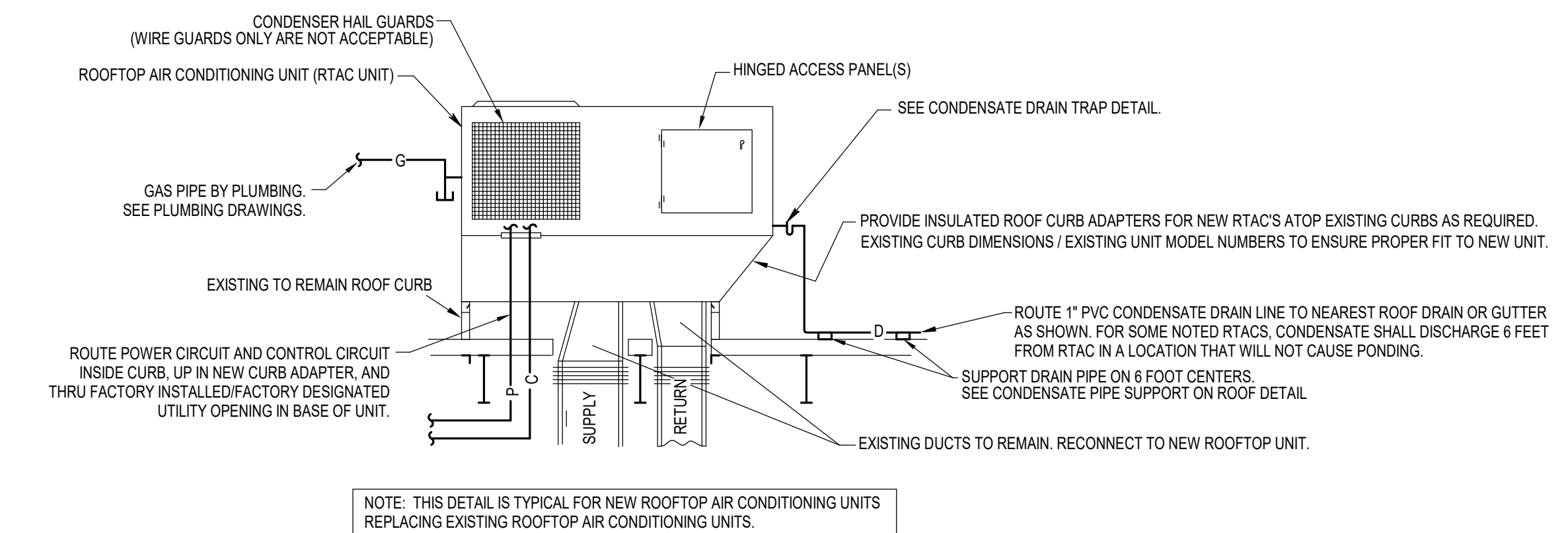
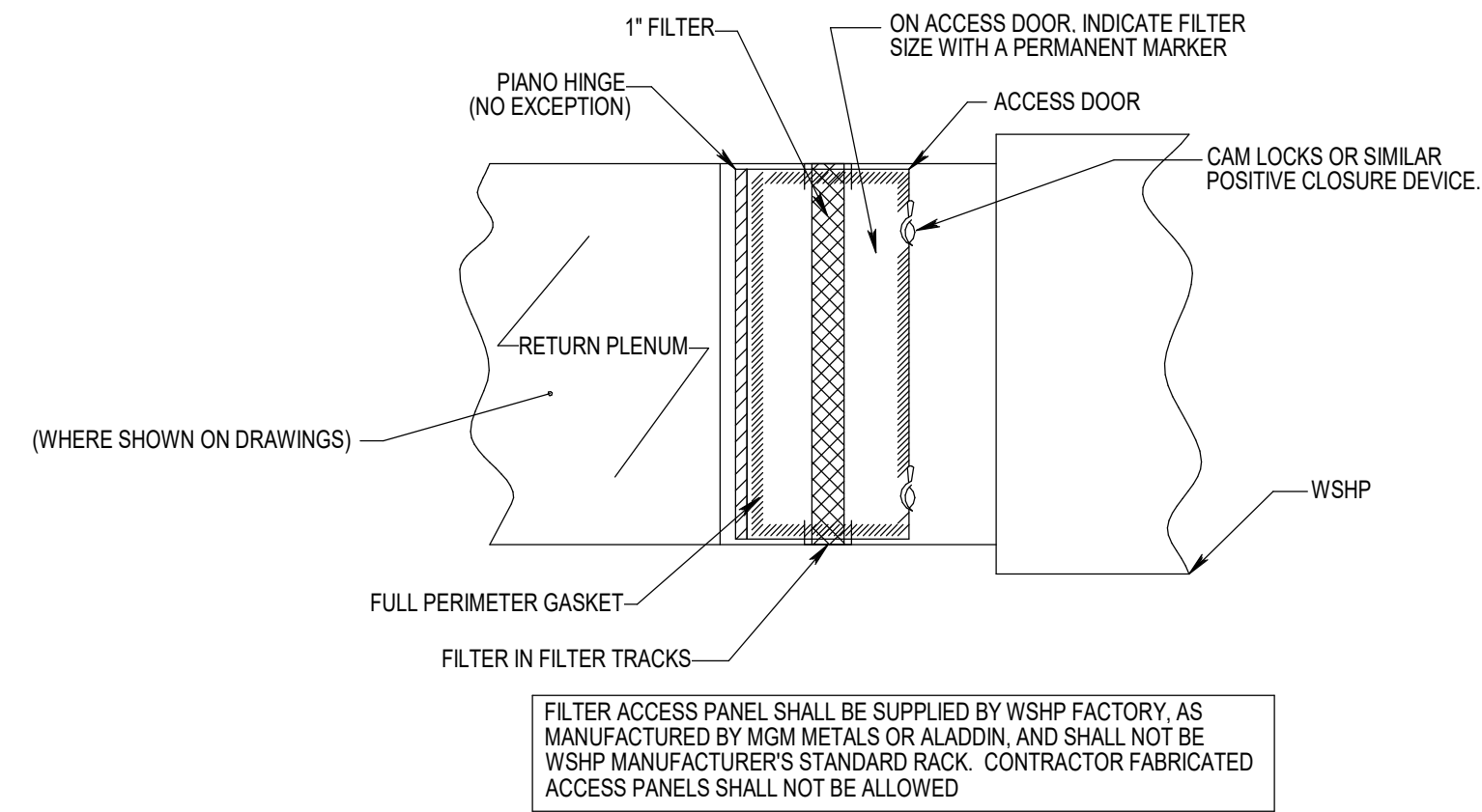
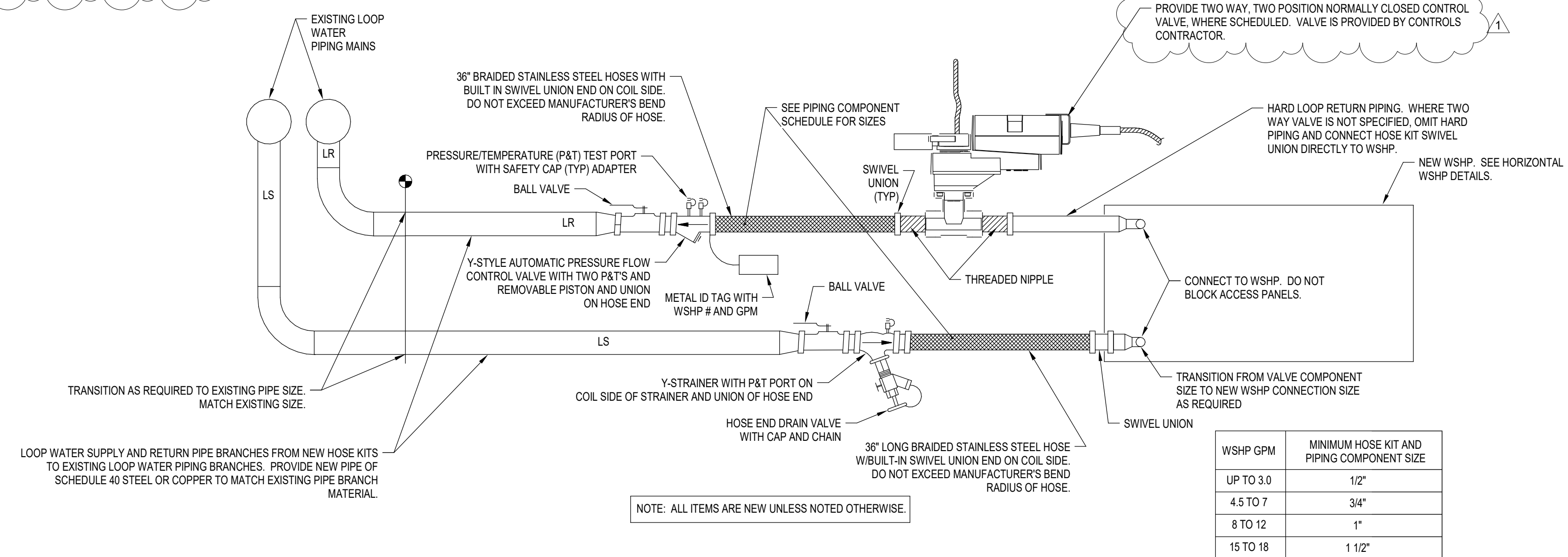
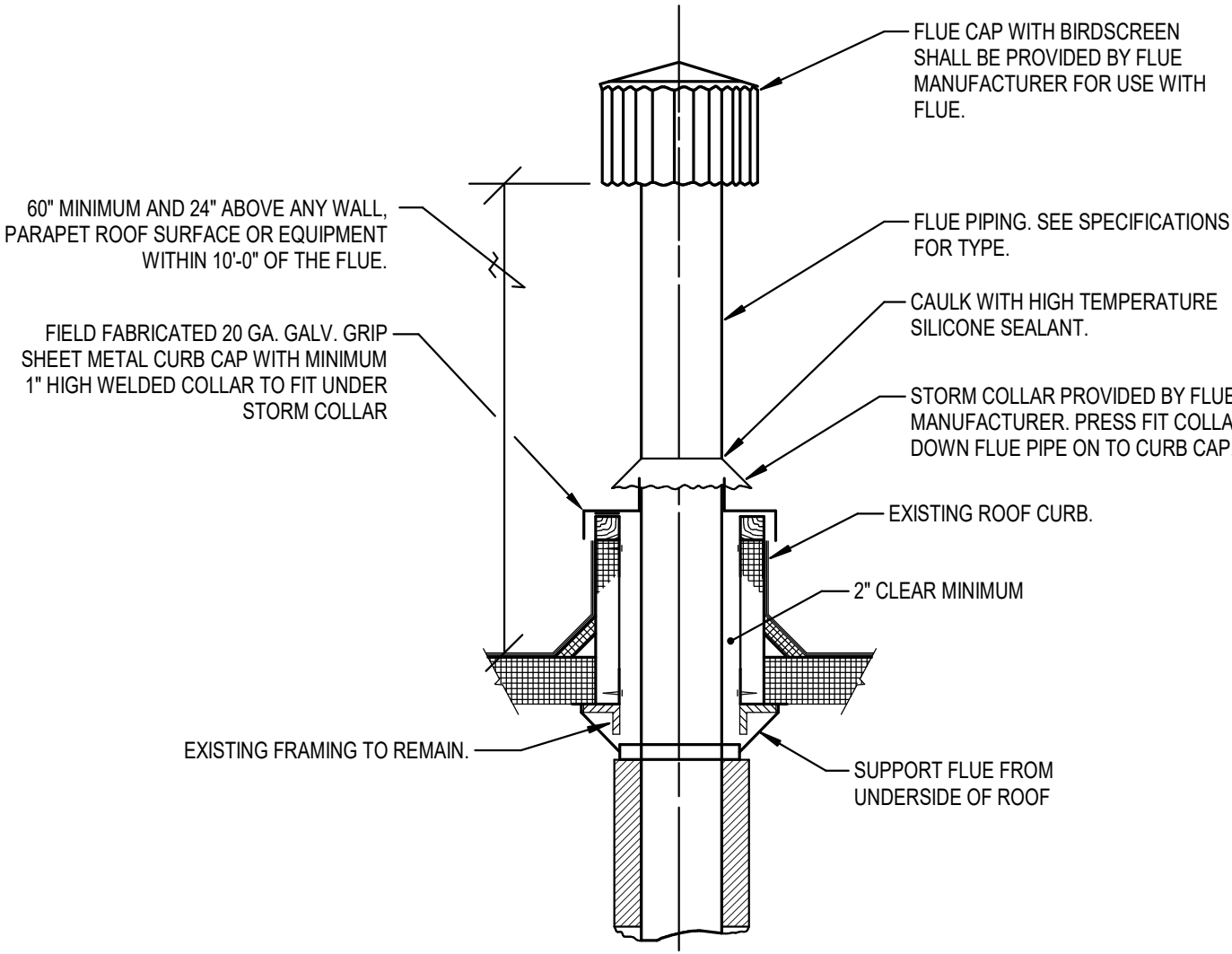
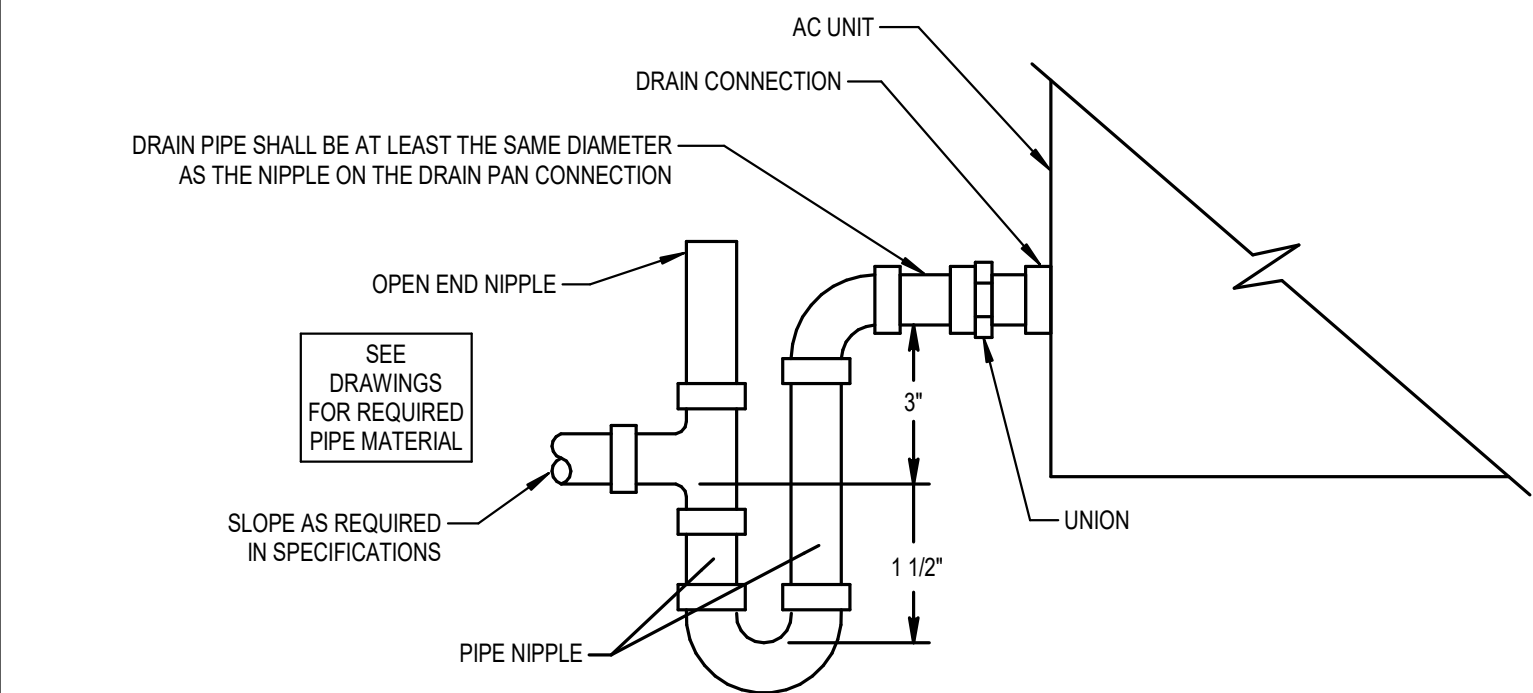
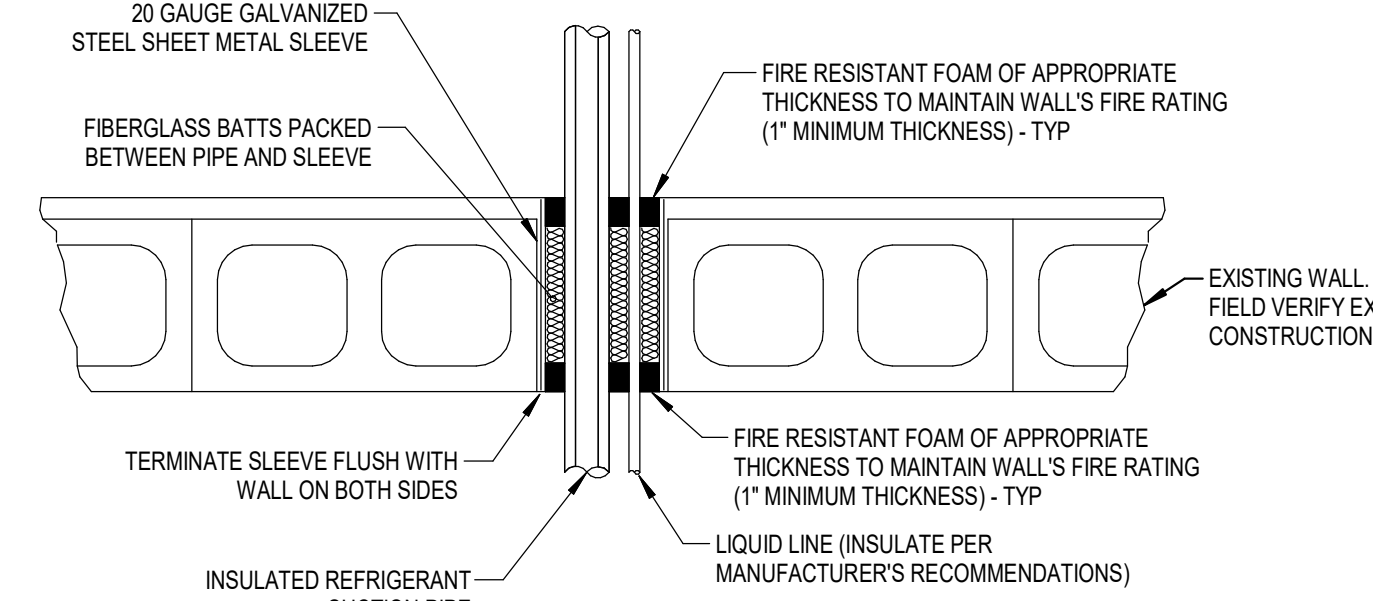
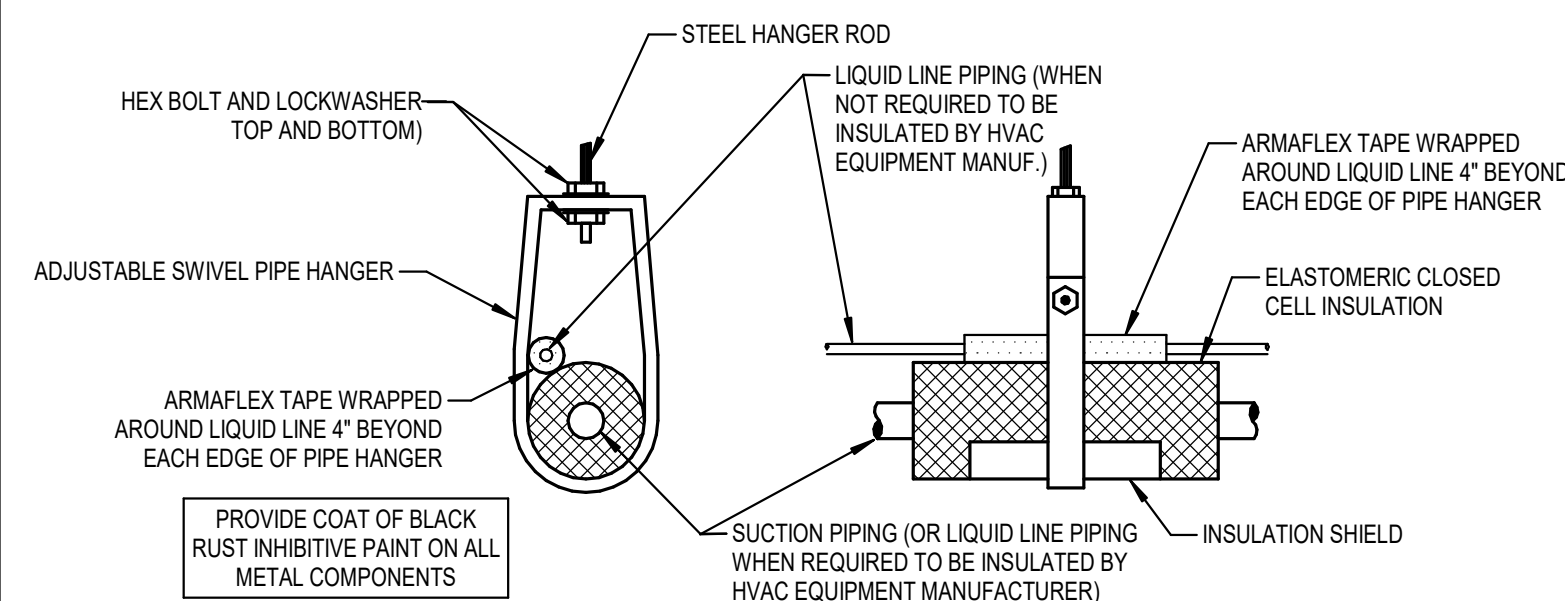
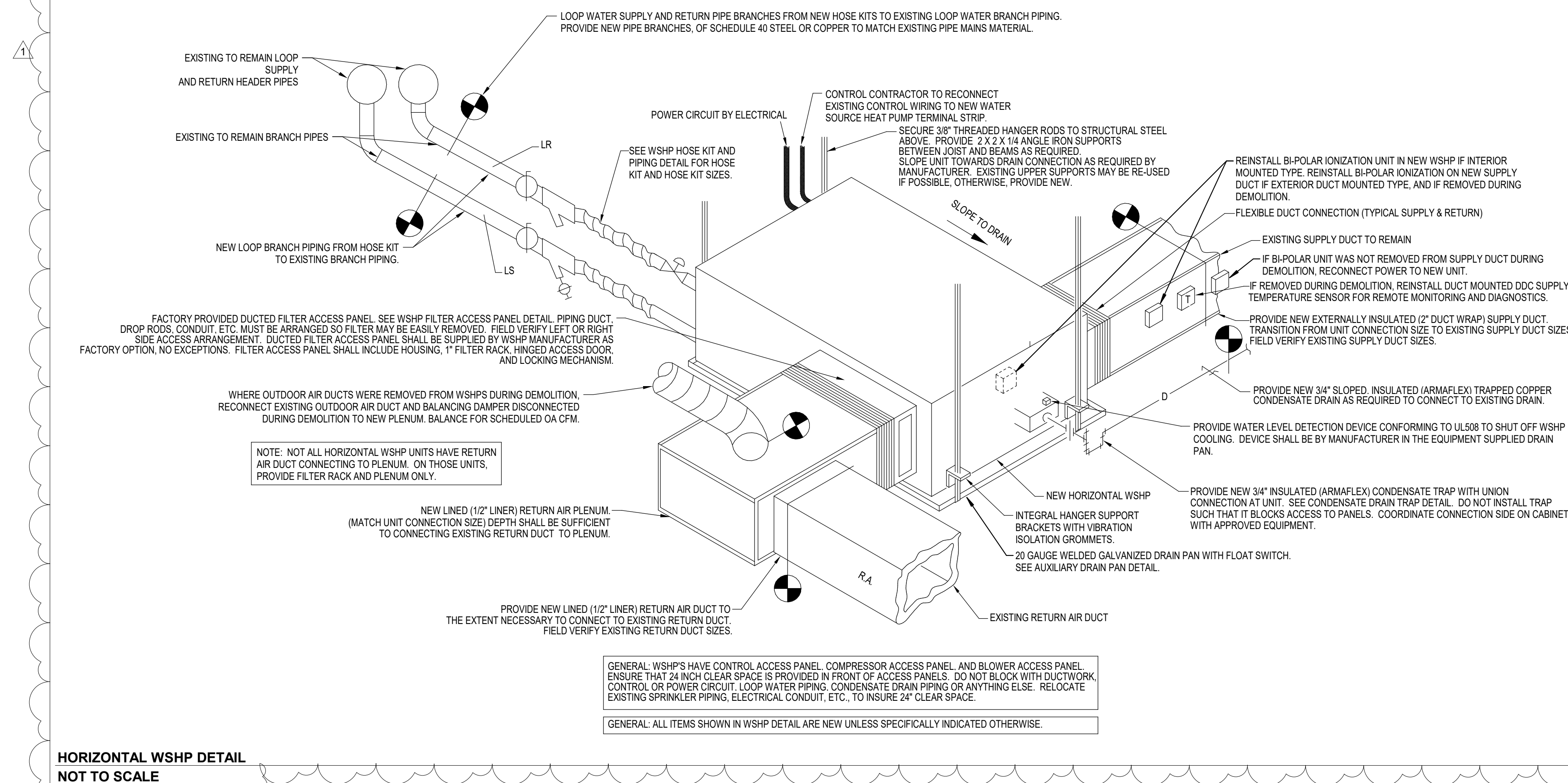
KEY PLAN

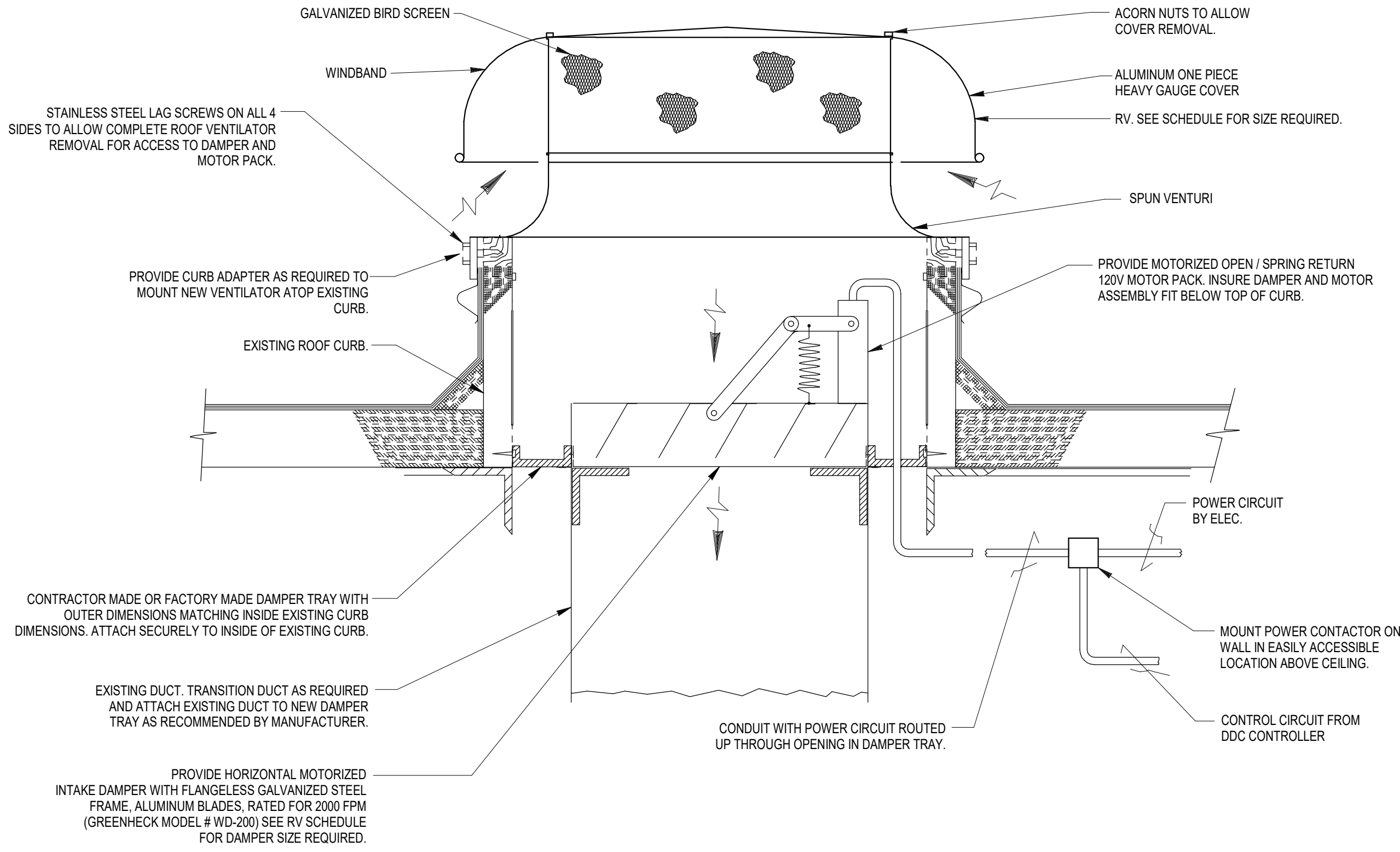


CLIENT		
Henry County Board of Education		
DATE	PROJECT NUMBER	
05 / 29 / 2026	260013	
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

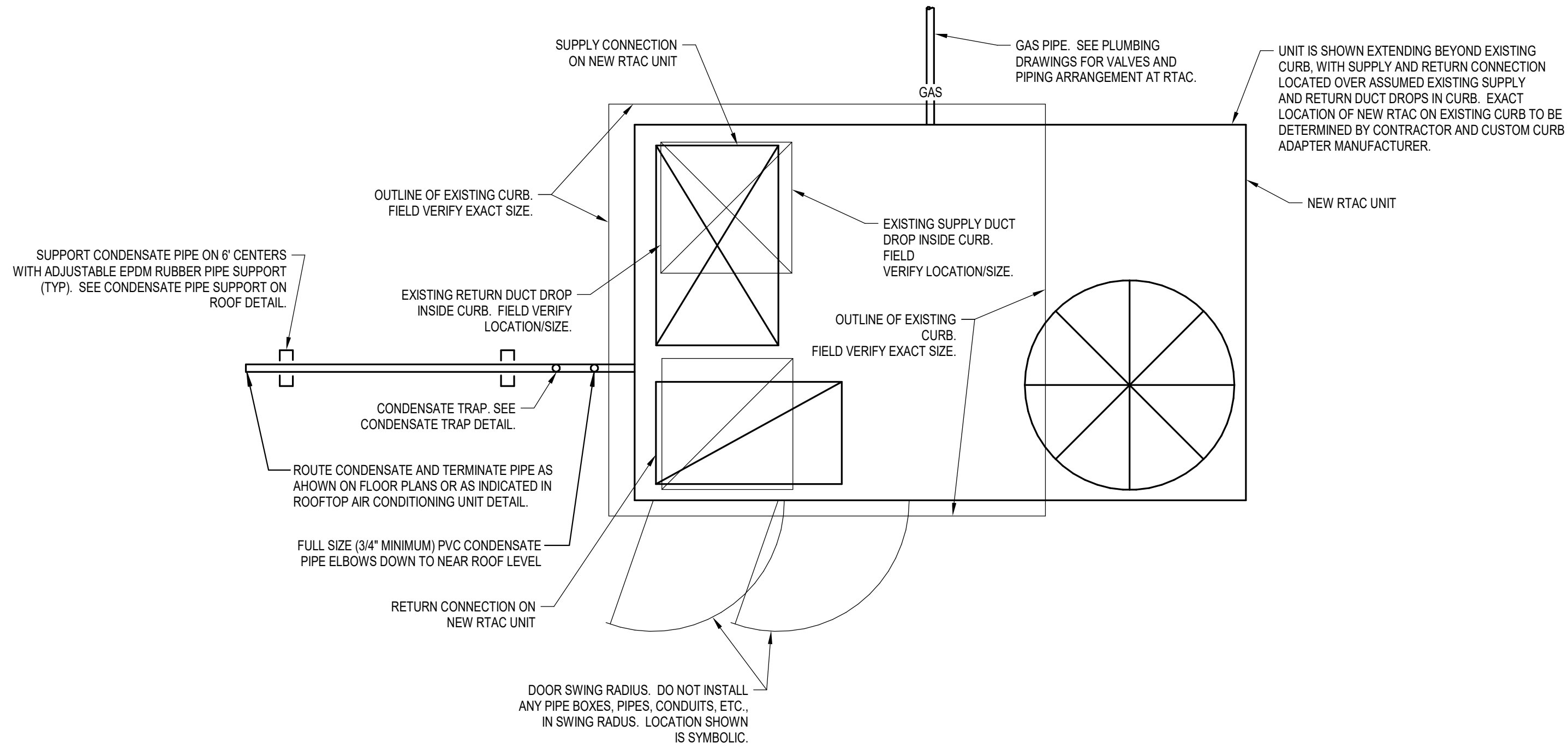
MECHANICAL ROOM NEW WORK FLOOR PLAN & PIPING SCHEMATIC

M301

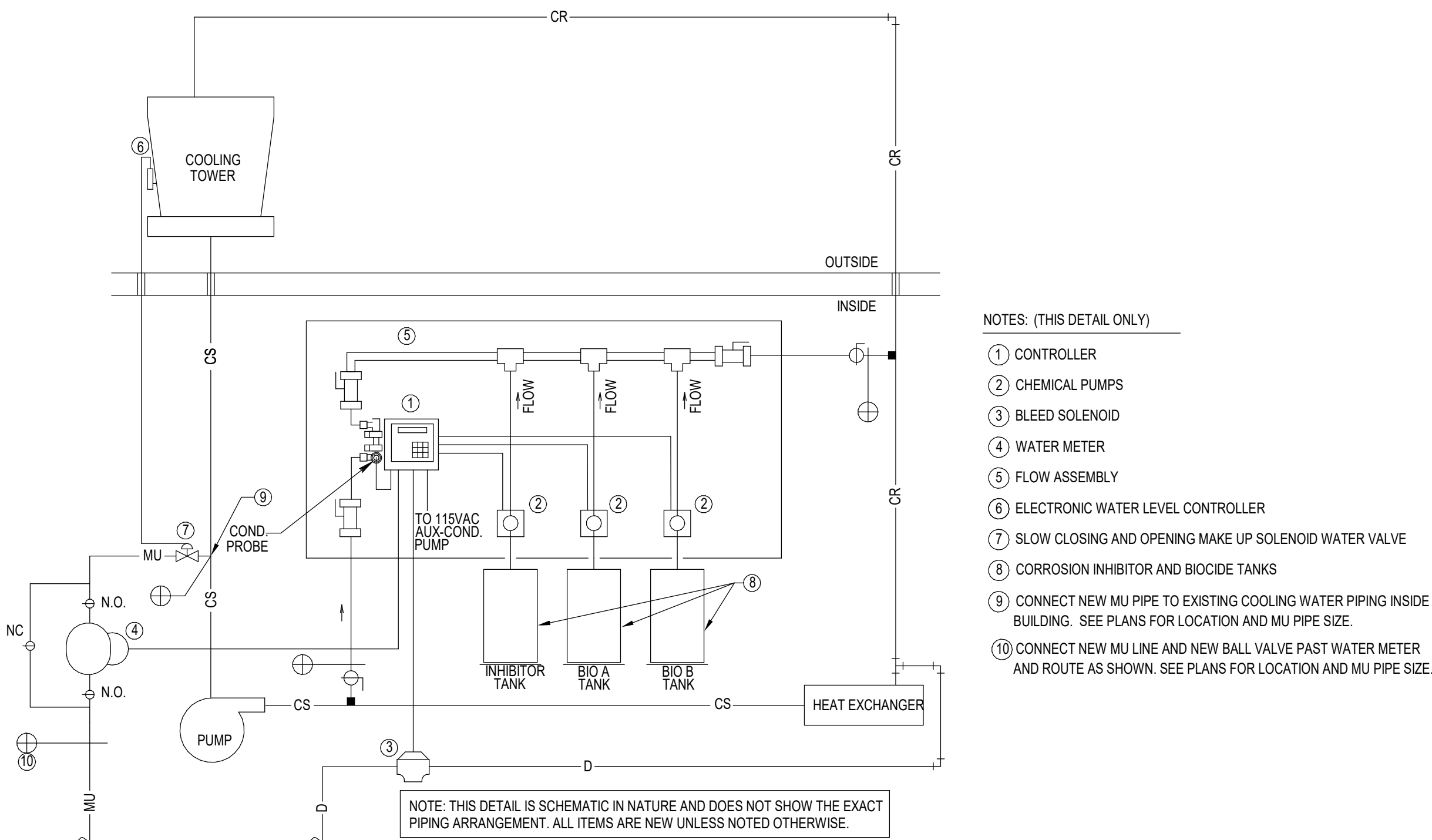




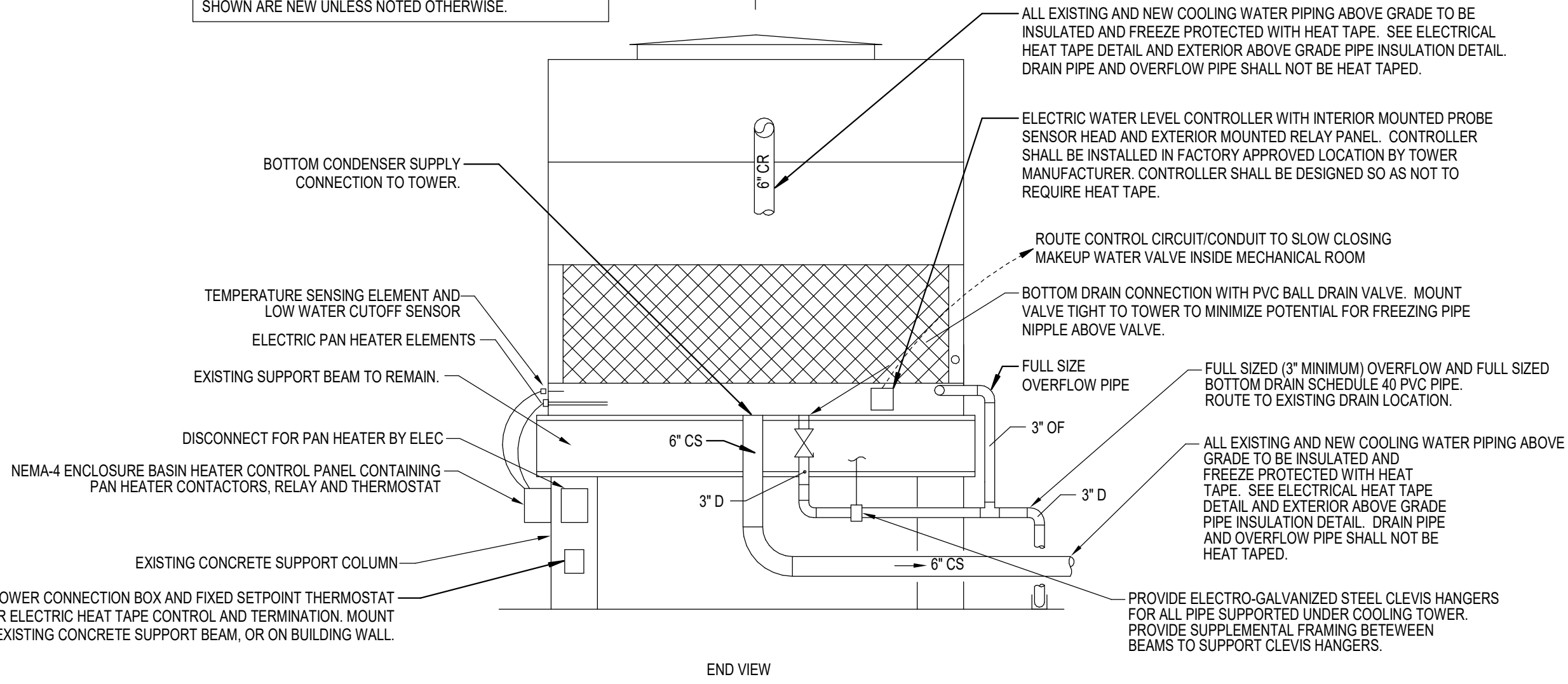
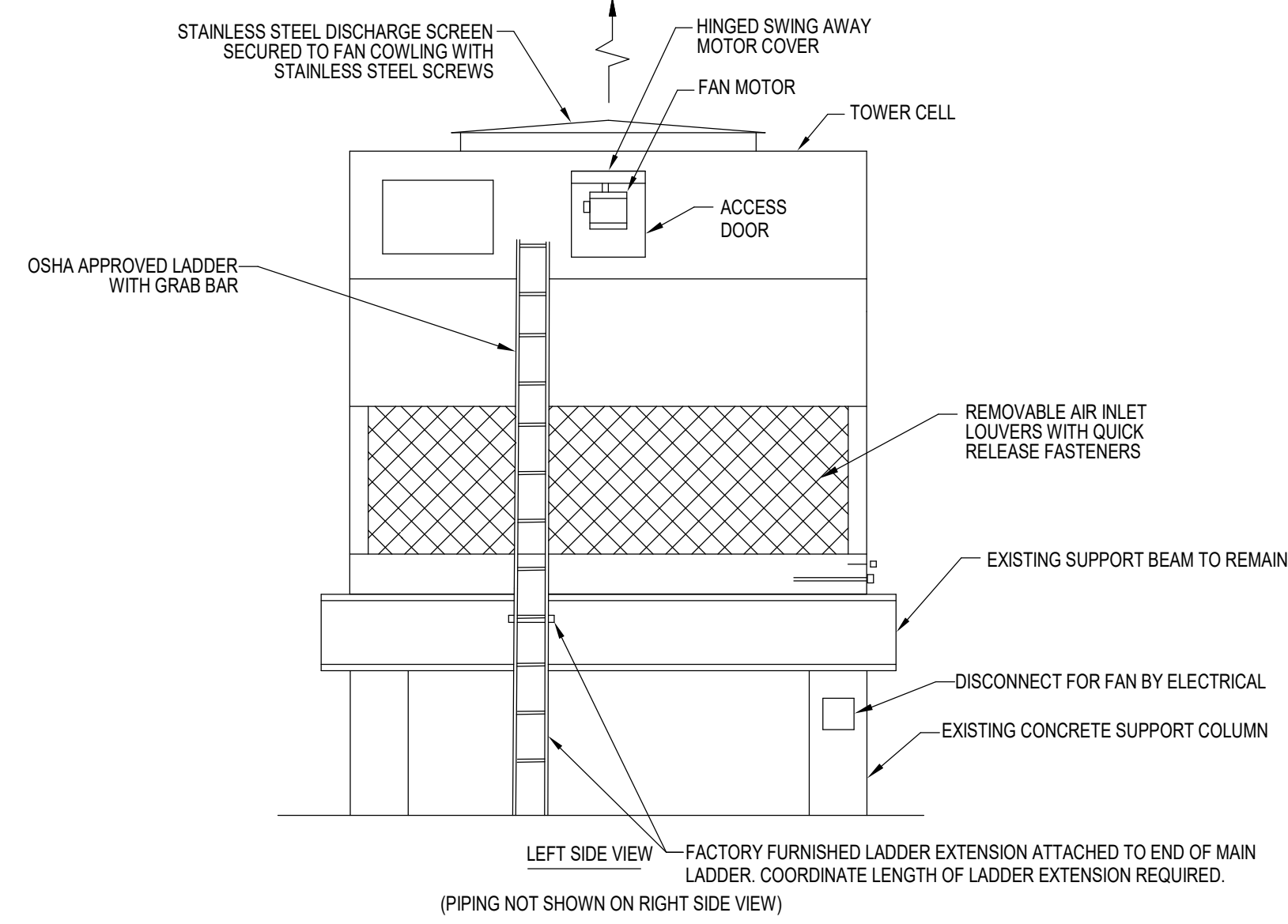
ROOF VENTILATOR WITH MOTORIZED INTAKE DAMPER DETAIL
NOT TO SCALE



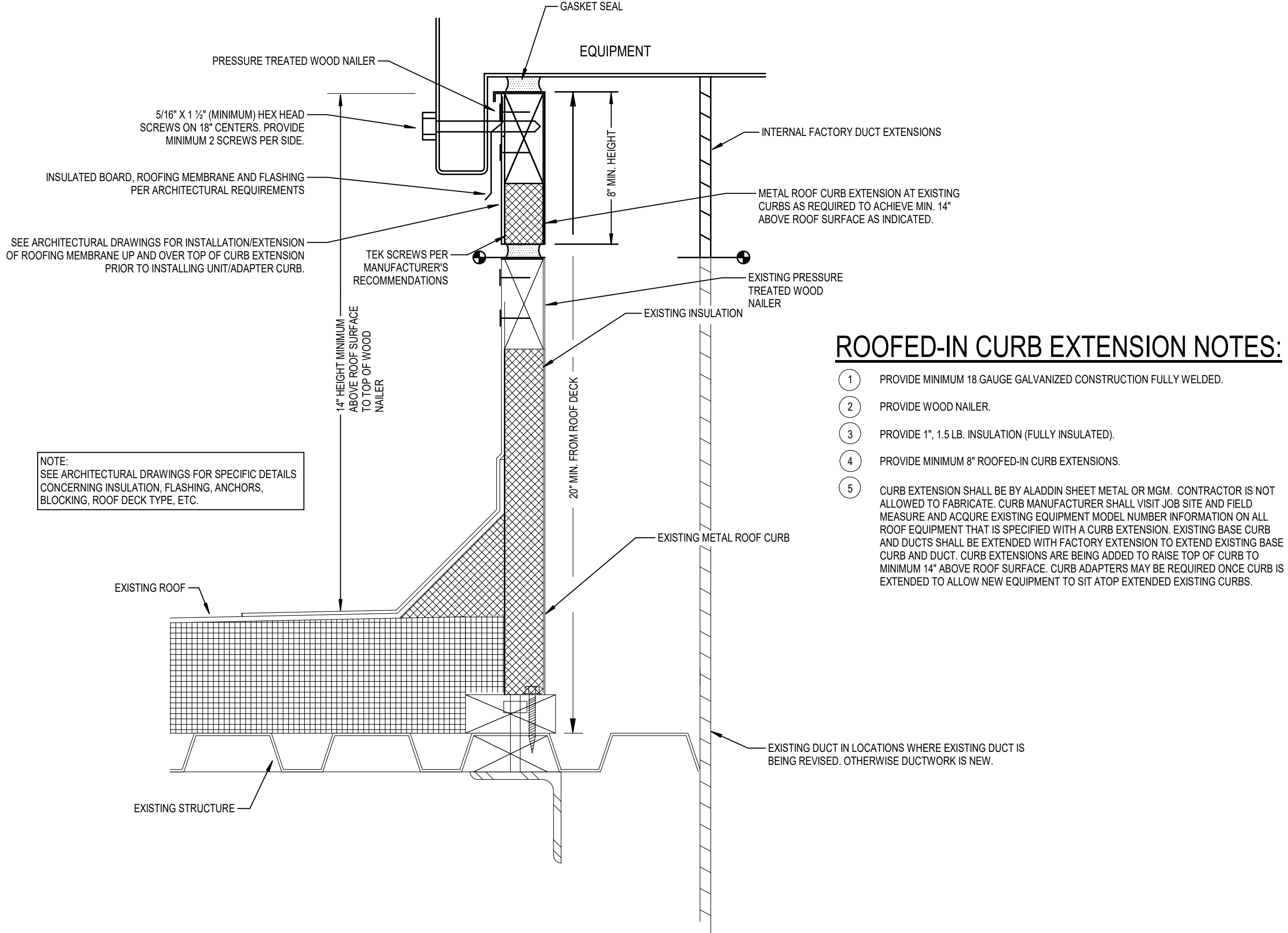
NEW RTAC ON EXISTING CURB DETAIL
NOT TO SCALE



COOLING WATER CHEMICAL TREATMENT PIPING DETAIL
NOT TO SCALE



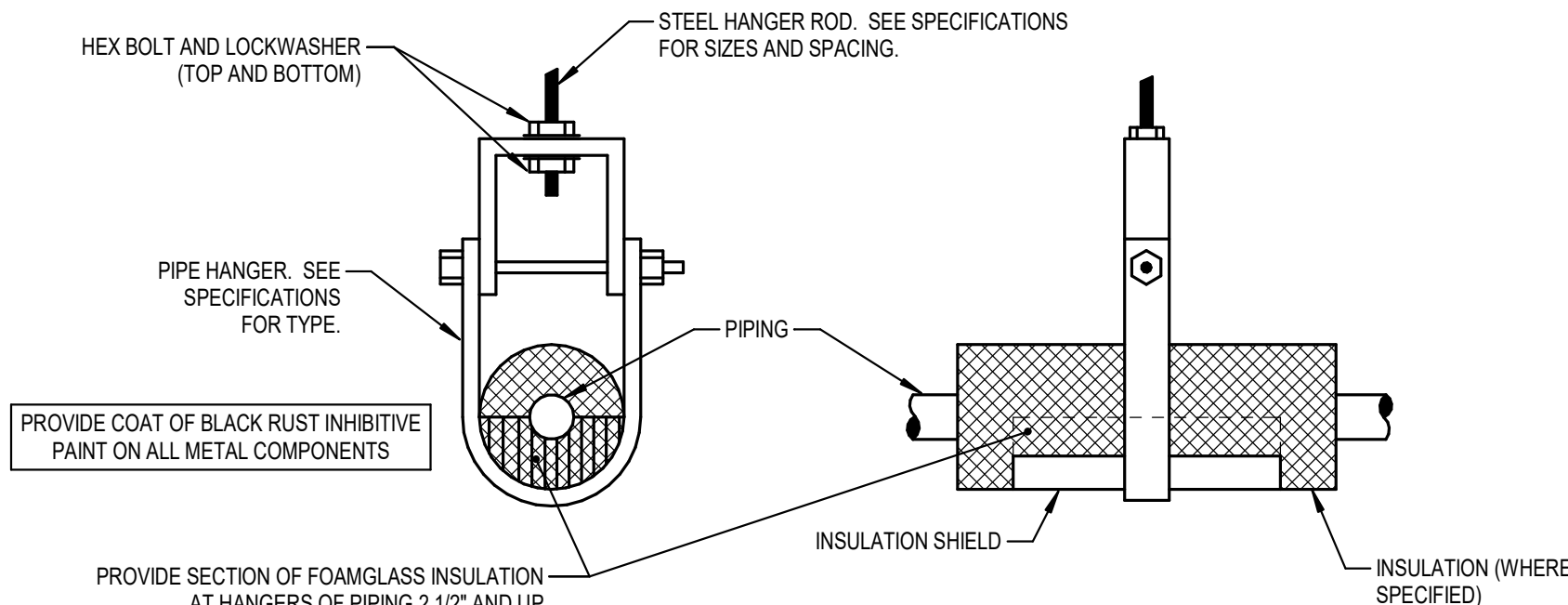
COOLING TOWER DETAIL
NOT TO SCALE



ROOFED-IN CURB EXTENSION NOTES:

1. PROVIDE MINIMUM 18 GAUGE GALVANIZED CONSTRUCTION FULLY WELDED.
2. PROVIDE WOOD NAILER.
3. PROVIDE 1", 1.5 LB. INSULATION (FULLY INSULATED).
4. PROVIDE MINIMUM 8" ROOFED-IN CURB EXTENSIONS.
5. CURB EXTENSION SHALL BE BY ALADIN SHEET METAL OR MCM. CONTRACTOR IS NOT ALLOWED TO FABRICATE. CURB MANUFACTURER SHALL VISIT JOB SITE AND FIELD MEASURE AND ACQUIRE EXISTING EQUIPMENT MODEL NUMBER INFORMATION ON ALL ROOF EQUIPMENT THAT IS SPECIFIED WITH A CURB EXTENSION. EXISTING BASE CURB AND DUCTS SHALL BE EXTENDED WITH FACTORY EXTENSION TO EXTEND EXISTING BASE CURB AND DUCT. CURB EXTENSIONS ARE BEING ADDED TO RAISE TOP OF CURB TO MINIMUM 14" ABOVE ROOF SURFACE. CURB ADAPTERS MAY BE REQUIRED ONCE CURB IS EXTENDED TO ALLOW NEW EQUIPMENT TO SIT ATOP EXTENDED EXISTING CURBS.

ROOFED-IN CURB EXTENSION DETAIL
NOT TO SCALE

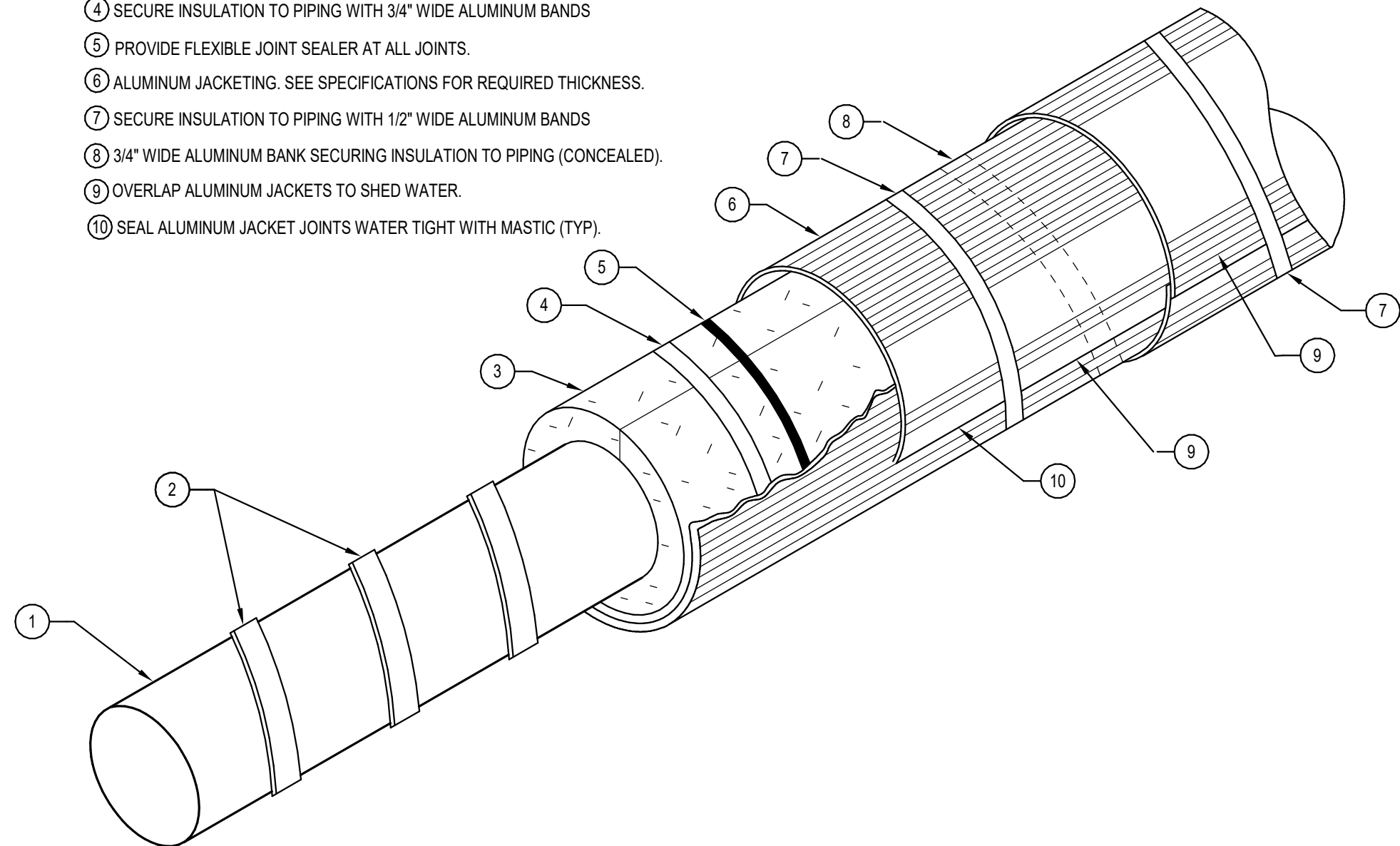


PIPE HANGER DETAIL
NOT TO SCALE

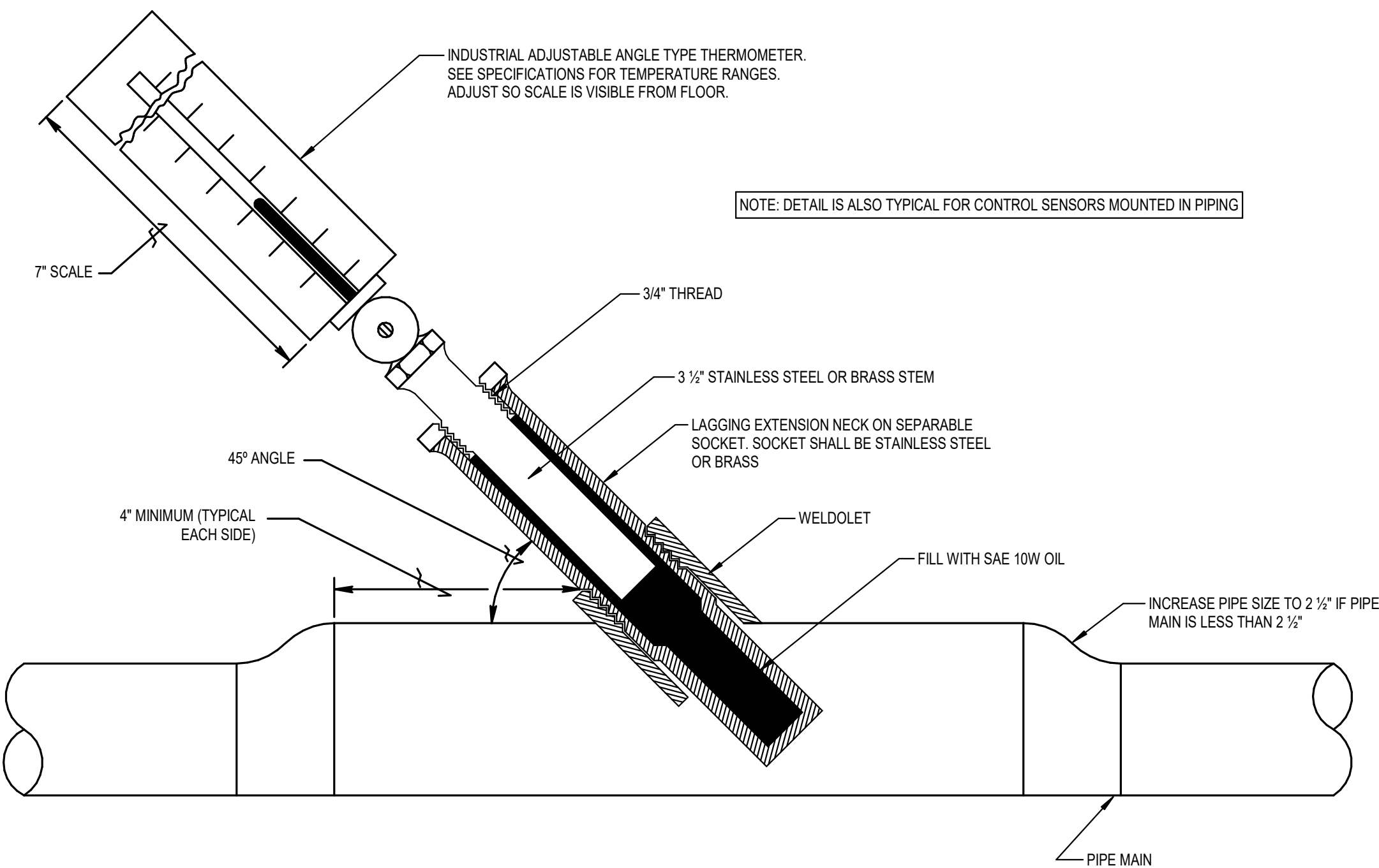
CLIENT		
Henry County Board of Education		
DATE	PROJECT NUMBER	
05 / 29 / 2026	260013	
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

NOTES: (THIS DETAIL ONLY)

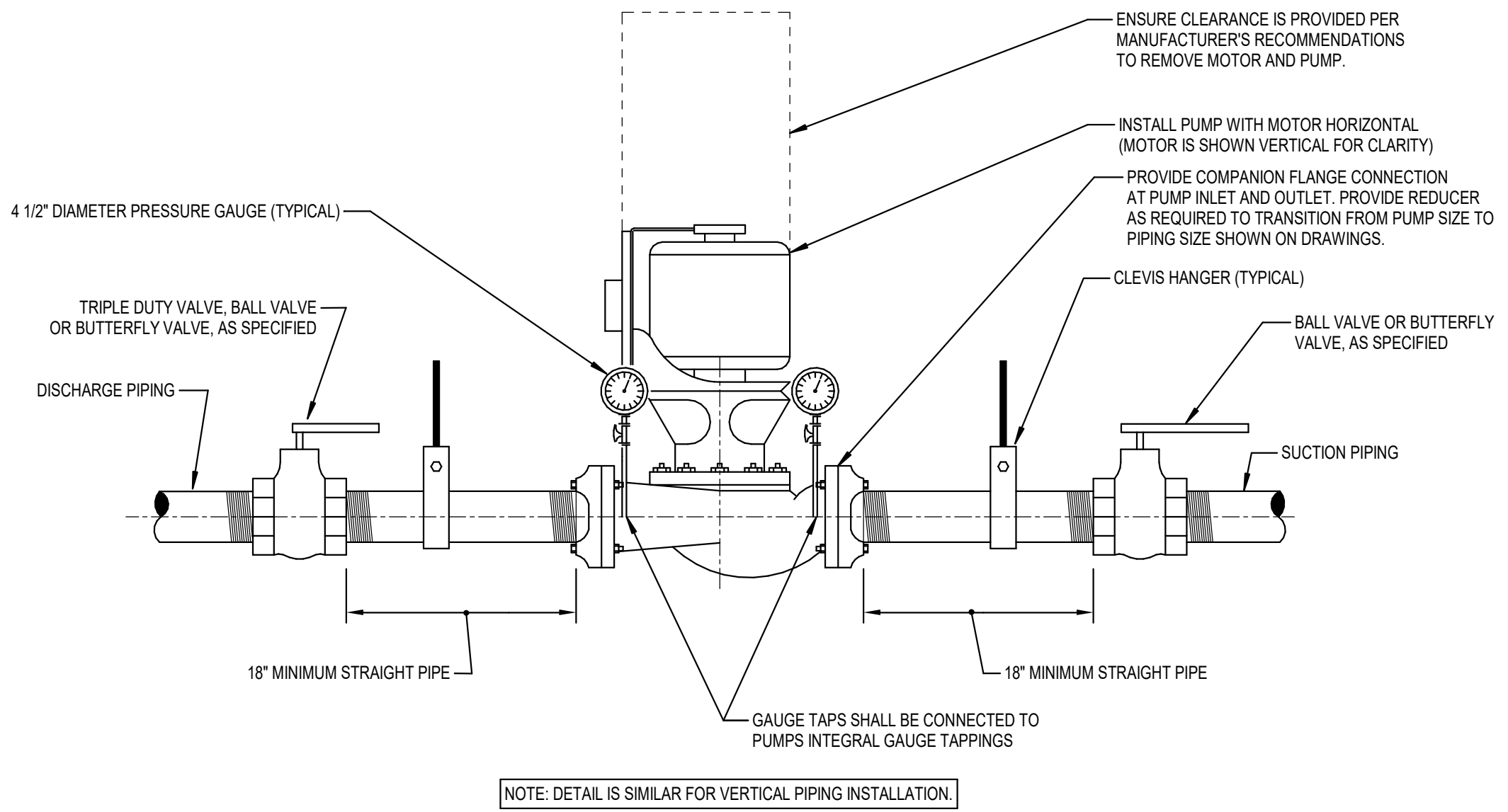
- ① PIPING
- ② ELECTRIC HEAT TAPE, PROVIDE HEAT TAPE ON ALL EXPOSED, ABOVE GROUND PIPING ROUTED OUTDOORS
- ③ PIPING INSULATION, SEE SPECIFICATIONS FOR TYPE AND THICKNESS.
- ④ SECURE INSULATION TO PIPING WITH 3/4" WIDE ALUMINUM BANDS
- ⑤ PROVIDE FLEXIBLE JOINT SEALER AT ALL JOINTS.
- ⑥ ALUMINUM JACKETING, SEE SPECIFICATIONS FOR REQUIRED THICKNESS.
- ⑦ SECURE INSULATION TO PIPING WITH 1/2" WIDE ALUMINUM BANDS
- ⑧ 3/4" WIDE ALUMINUM BANK SECURING INSULATION TO PIPING (CONCEALED).
- ⑨ OVERLAP ALUMINUM JACKETS TO SHED WATER.
- ⑩ SEAL ALUMINUM JACKET JOINTS WATER TIGHT WITH MASTIC (TYP).



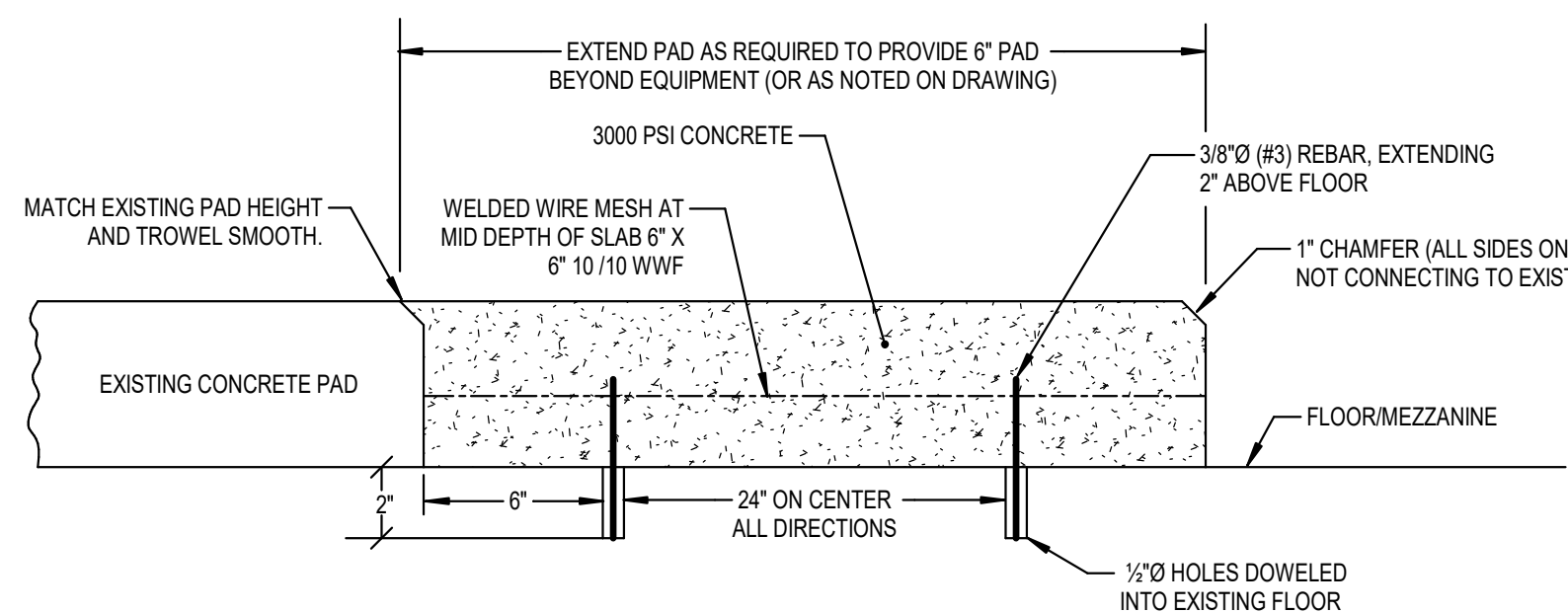
EXTERIOR ABOVE GRADE PIPING INSULATION DETAIL
NOT TO SCALE



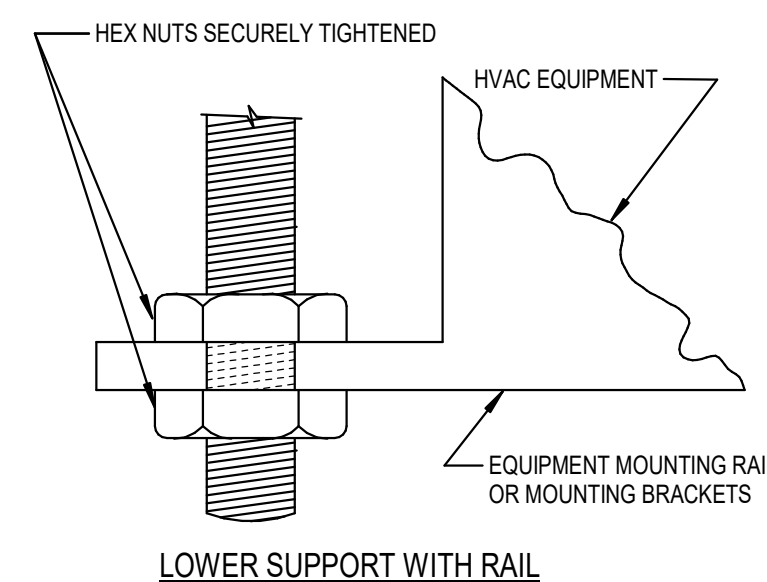
THERMOMETER DETAIL
NOT TO SCALE



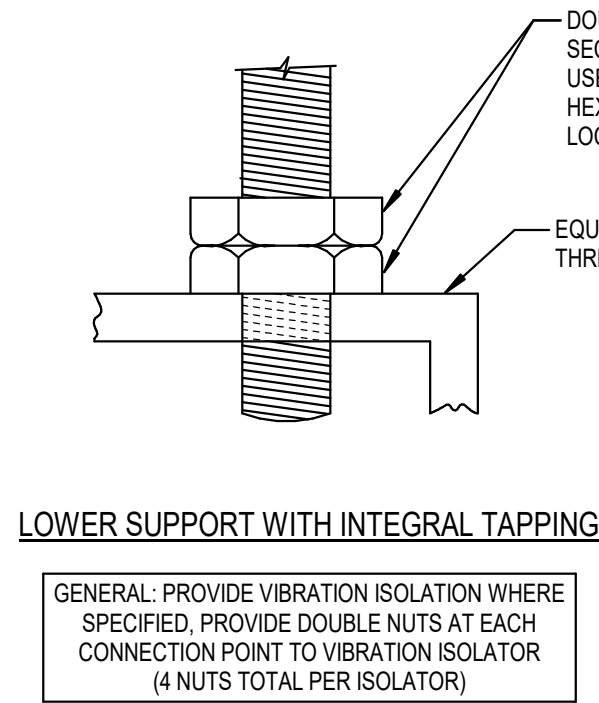
INLINE PUMP DETAIL
NOT TO SCALE



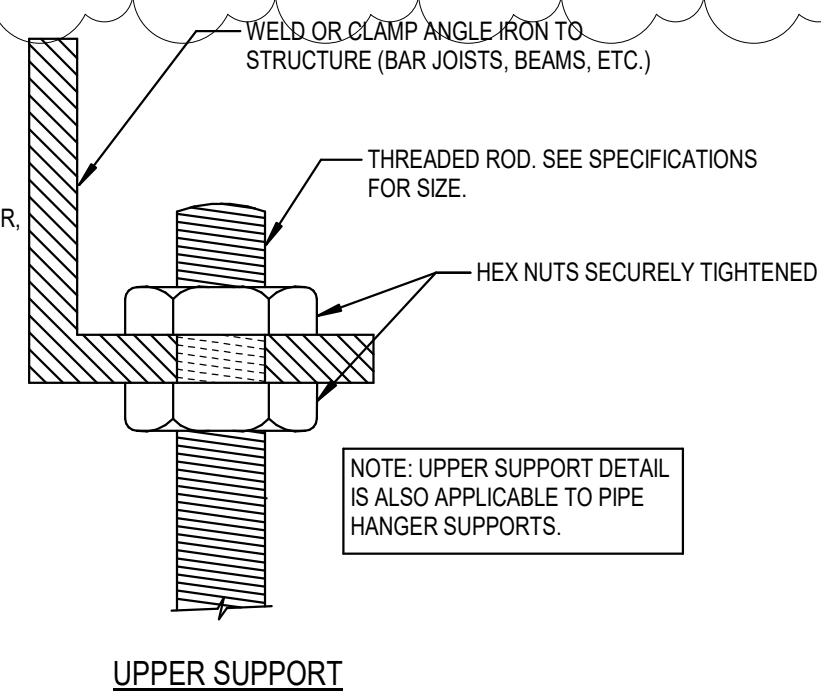
CONCRETE EQUIPMENT PAD EXTENSION DETAIL
NOT TO SCALE



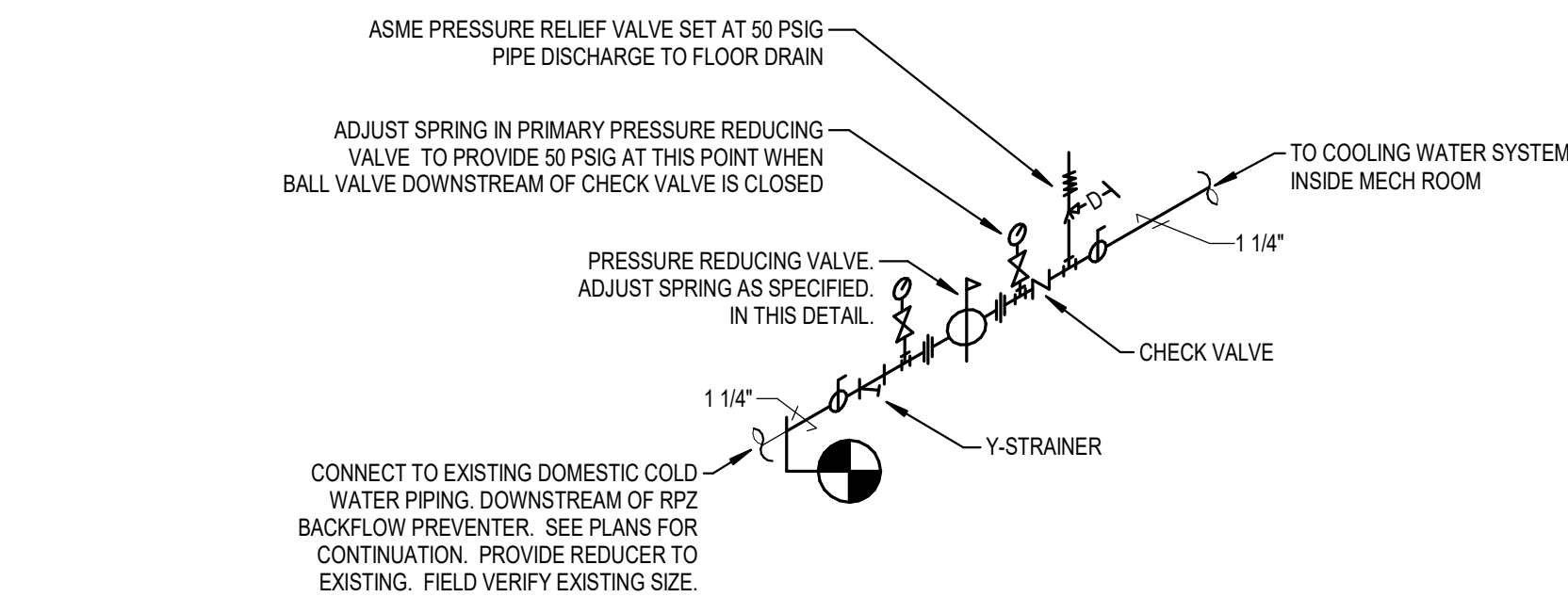
SUSPENDED EQUIPMENT SUPPORT DETAIL
NOT TO SCALE



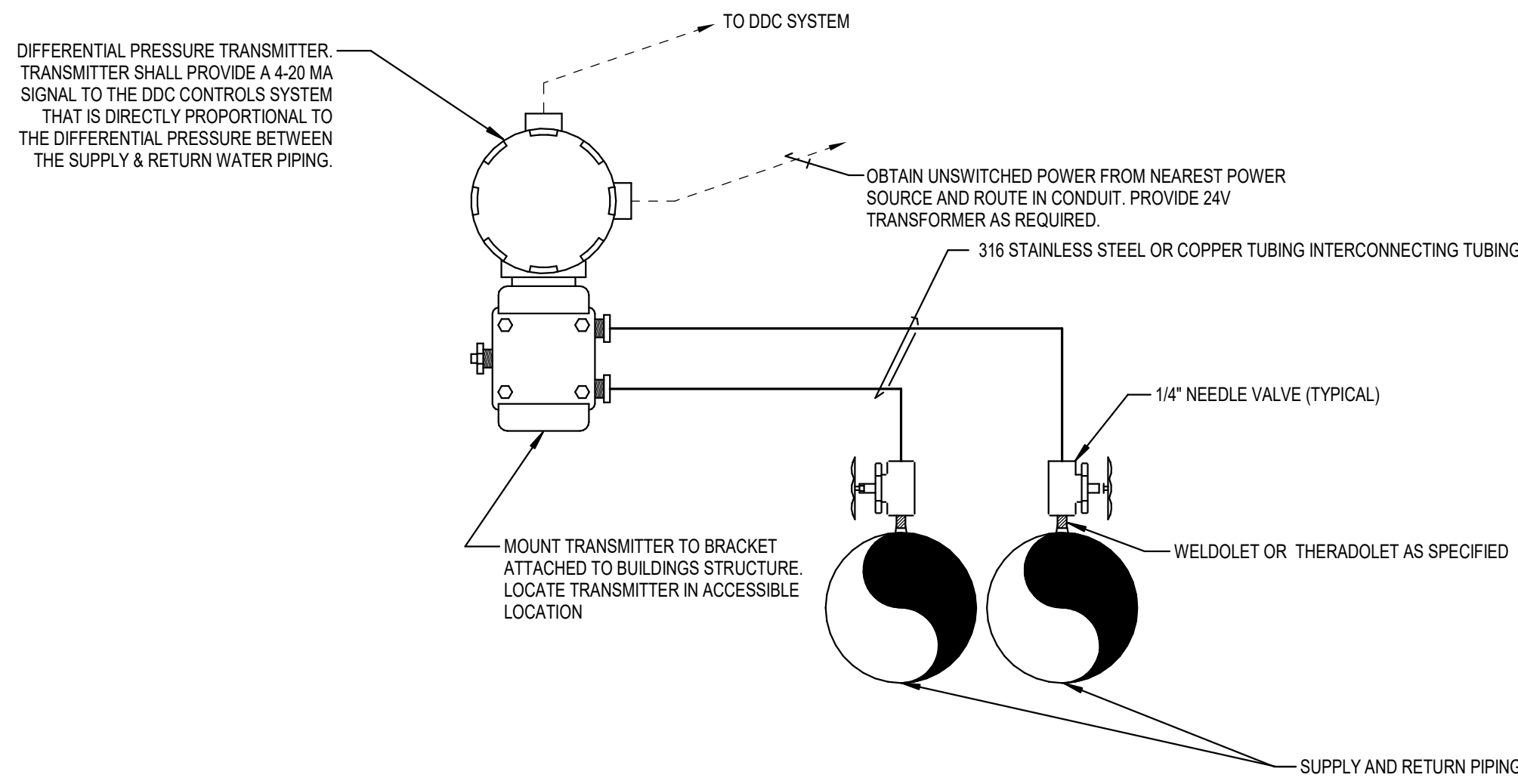
LOWER SUPPORT WITH INTEGRAL TAPPING



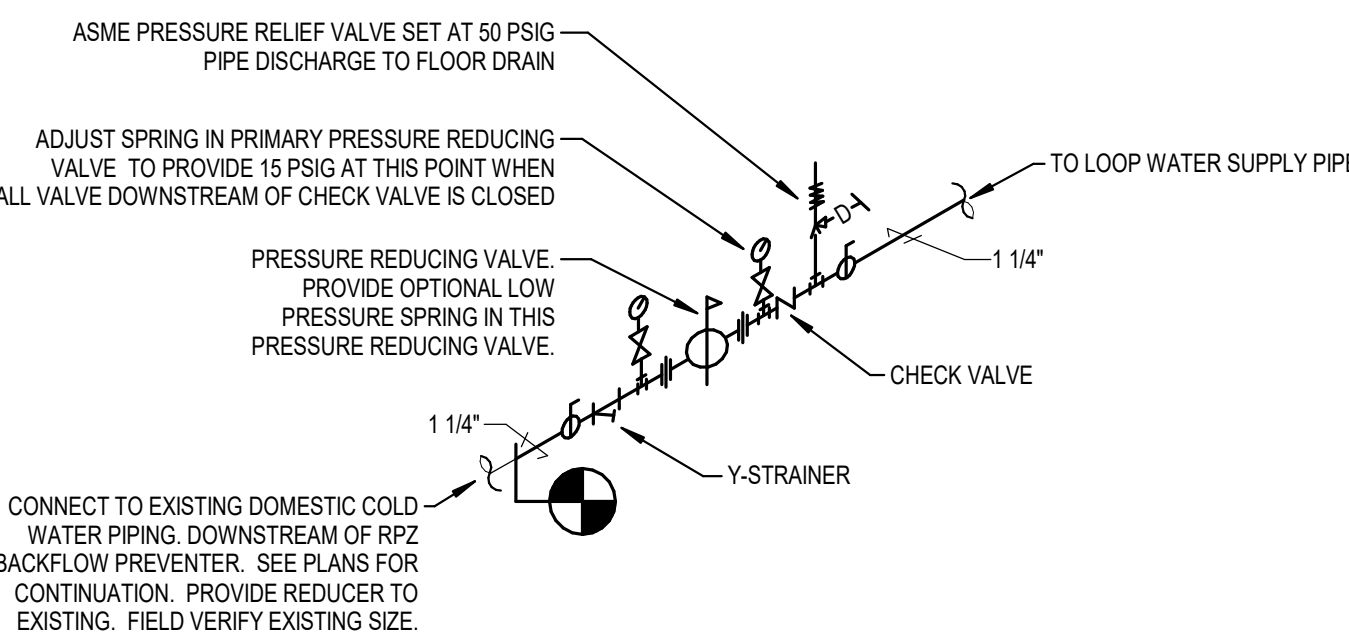
UPPER SUPPORT



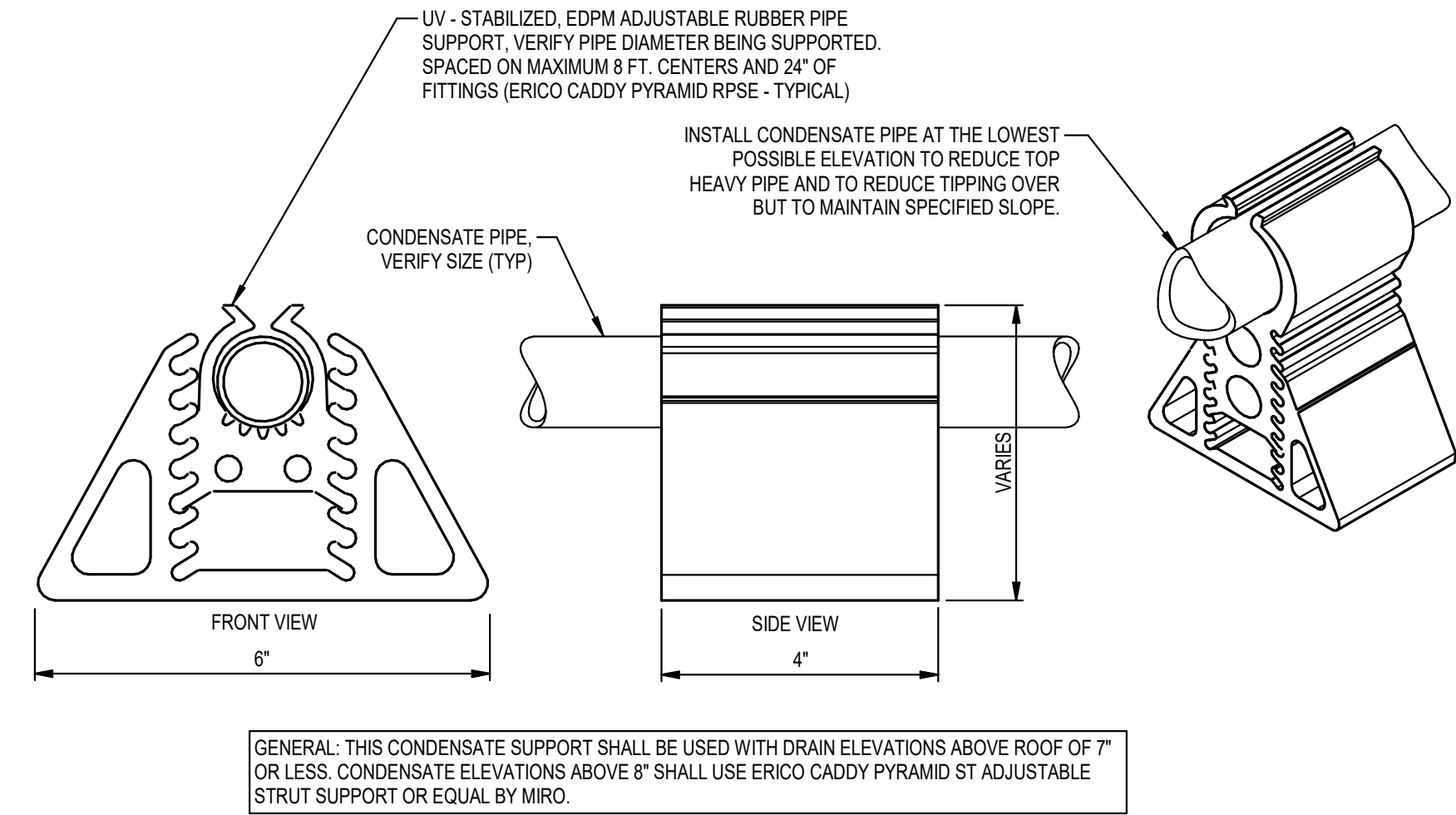
COOLING WATER MAKE-UP WATER STATION DETAIL
NOT TO SCALE



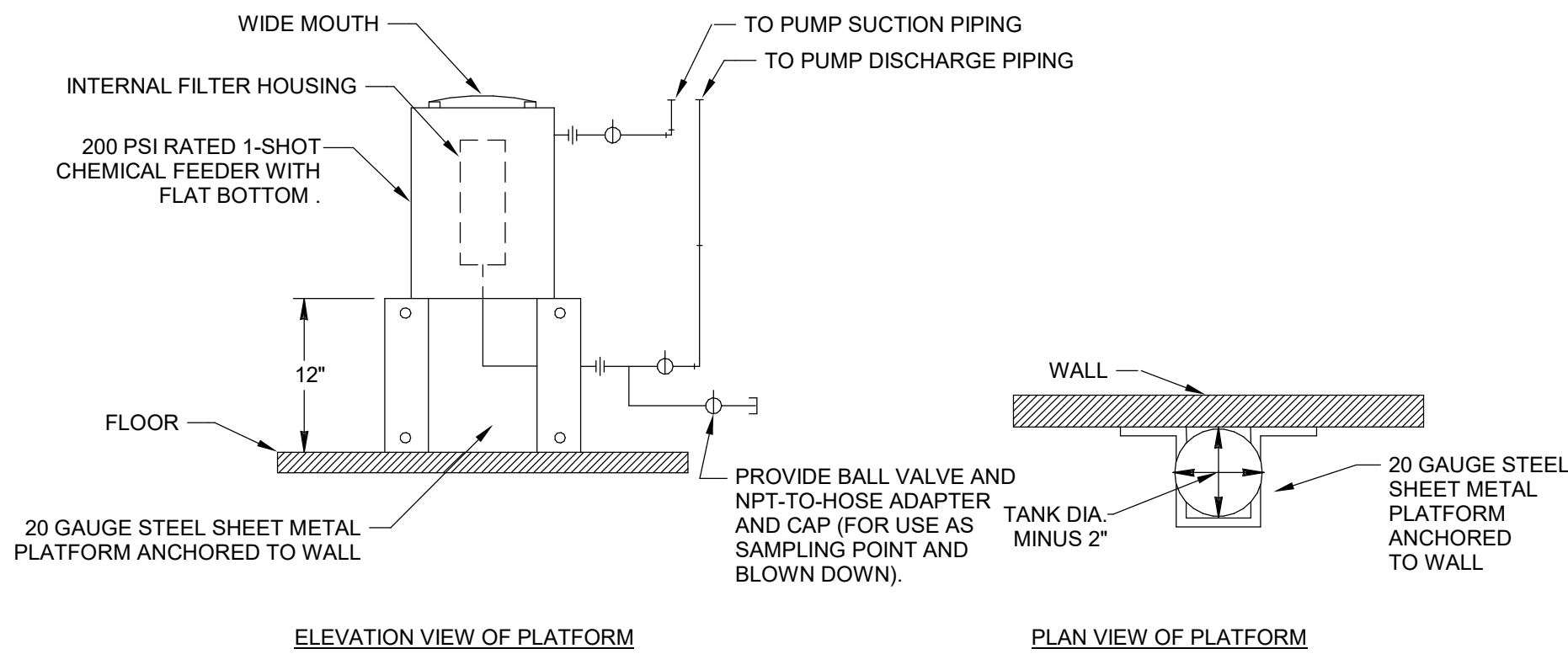
DIFFERENTIAL PRESSURE TRANSMITTER DETAIL
NOT TO SCALE



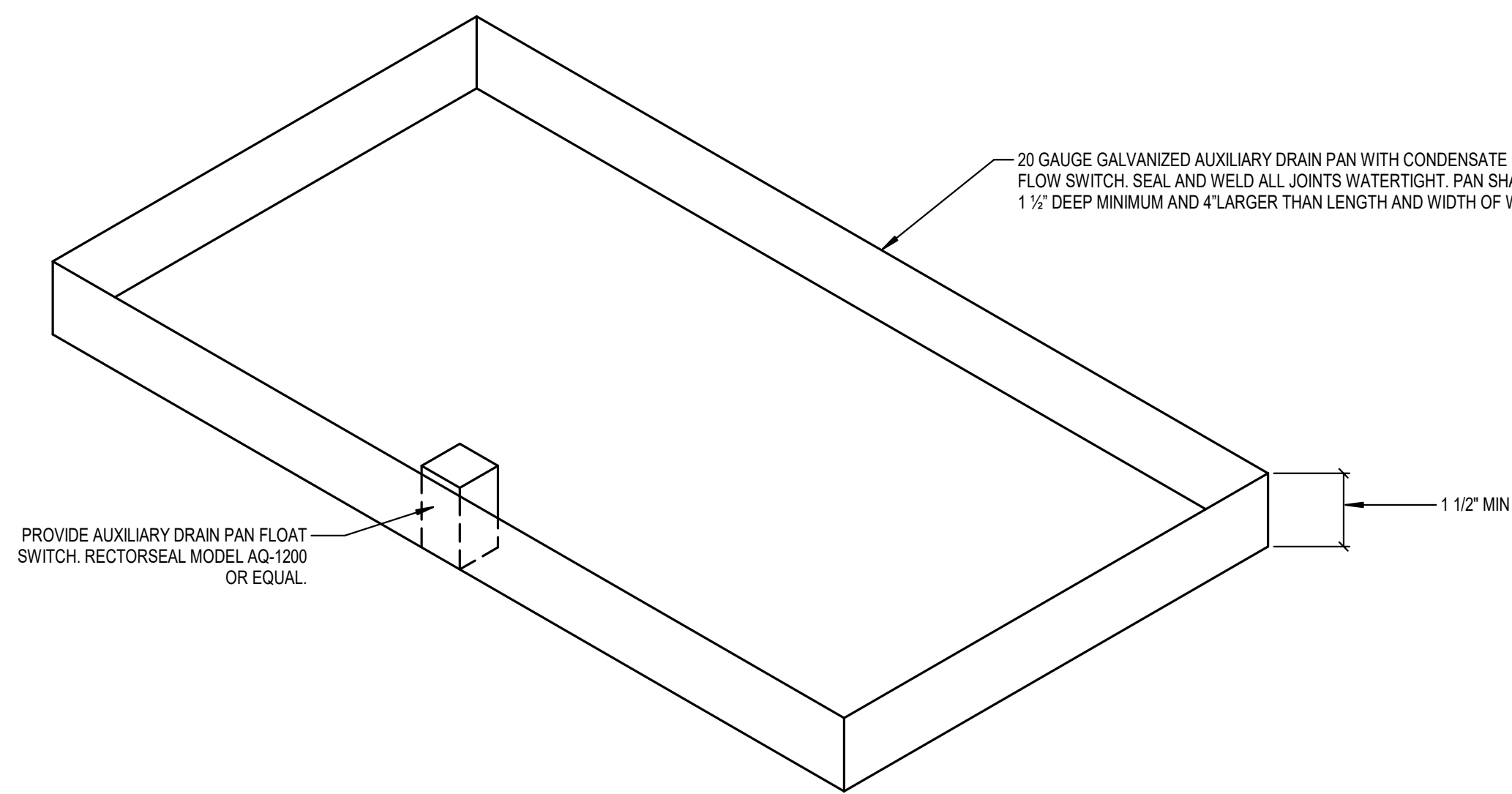
LOOP WATER MAKE-UP WATER STATION DETAIL
NOT TO SCALE



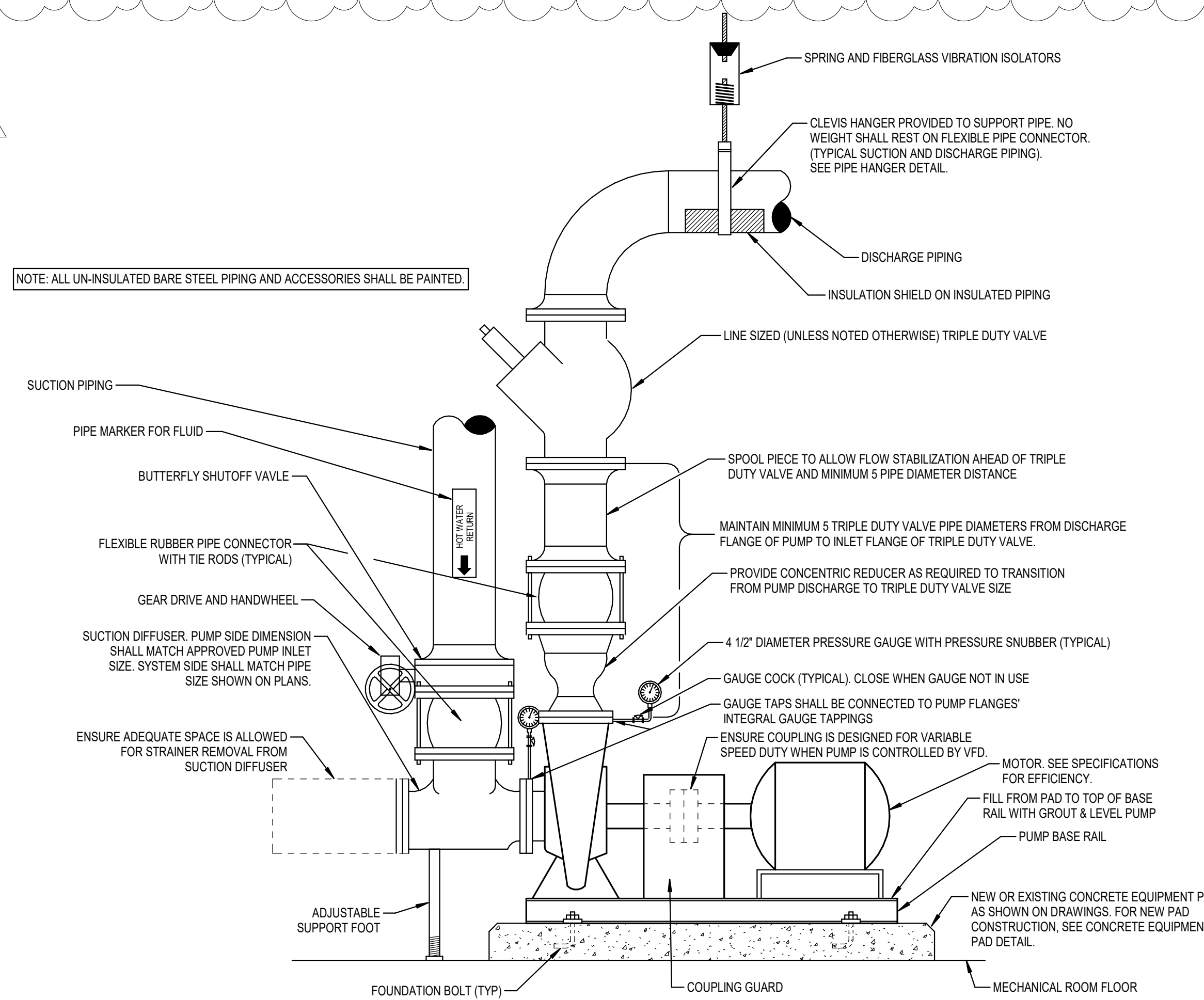
CONDENSATE PIPE SUPPORT ON ROOF DETAIL
NOT TO SCALE



ONE SHOT CHEMICAL FEED SYSTEM DETAIL
NOT TO SCALE



WSP AUXILIARY DRAIN PAN DETAIL
NOT TO SCALE



BASE MOUNTED END SUCTION PUMP DETAIL
NOT TO SCALE

AH & P
**CONSULTING
ENGINEERS**

1201 OLD CONYERS ROAD, STOCKBRIDGE, GA 30281

A diagram showing three adjacent rectangular blocks labeled A, B, and C. Block A is on the left, block B is in the middle, and block C is on the right. They are connected by thin lines, suggesting they are part of a continuous structure.

CLIENT	
Henry County Board of Education	
DATE	PROJECT NUMBER
05 / 29 / 2026	260013
DRAWING HISTORY	
No.	Date
1	07/02/2028
Addendum No. 1	
CHECKED BY: WMH	
DRAWN BY: BCS	

M602

		ENERGY RECOVERY UNITS																			
TAG	AAON MODEL NO.	AIR CAPACITY (CFM)		EXTERNAL STATIC INCHES W.G.		FAN HORSEPOWER		COOLING MODE WHEEL DESIGN CONDITIONS			HEATING MODE WHEEL DESIGN CONDITIONS			HEATING COIL		COOLING COIL				NOTES:	EXISTING VOLTAGE/PHASE *
		SUPPLY	EXHAUST	SUPPLY	EXHAUST	SUPPLY	EXHAUST	OUTSIDE AIR DB ° F WB DB ° F	EXHAUST AIR DB ° F WB DB ° F	SUPPLY AIR DB ° F WB DB ° F	E.A.T. (DB) ° F	L.A.T. (DB) ° F	CAPACITY (KW)	ENT. AIR TEMP DB ° F WB DB ° F	LEAVING AIR TEMP DB ° F WB DB ° F	TOTAL (MBH)	SENSIBLE (MBH)	MAX. COIL FACE VELOCITY (FPM)			
ERU-1	RNA-008-A	1525	1375	0.80	0.80	1.02 BHP	0.68 BHP	97 77 75	65 82.3 69.3	15 70	50.5	50.5	92.5	20.0	82.3 69.6 49.1	49.1	90.5	53.0	179.3	1 THRU 17	480 / 3
ERU-2	RNA-008-A	1480	1335	0.80	0.80	0.95 BHP	0.64 BHP	97 77 75	65 82.2 69.5	15 70	50.8	50.8	94.0	20.0	82.2 69.5 50.1	49.7	85.3	49.7	174.0	1 THRU 17	480 / 3
ERU-3	RNA-006-A	1050	1050	0.80	0.80	0.67 BHP	0.42 BHP	97 77 75	65 80.0 68.3	15 70	56.5	56.5	117.4	20.0	80.0 68.3 50.2	49.5	56.9	32.9	125.0	1 THRU 17	480 / 3

* EXISTING VOLTAGES SHOWN ARE BASED ON ORIGINAL ELECTRICAL DRAWINGS AND SHALL BE FIELD VERIFIED AT CIRCUIT BREAKER AND COORDINATED WITH ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING.

FACILITY FABRICATED ROOF MOUNTED DOWNFLOW DISCHARGE 100% OUTDOOR AIR UNIT. UNIT SHALL BE DOUBLE WALL CONSTRUCTION FOR ALL WALL AND ROOF PANELS WITH MINIMUM R12 INSULATION AND MINIMUM 20 GAUGE GALVANIZED STEEL INTERIOR AND MINIMUM 18 GAUGE GALVANIZED STEEL PAINTED EXTERIOR OR PAINTED ALUMINUM. AIR LEAKAGE OF UNIT SHALL NOT EXCEED 1% AT 6 INCHES POSITIVE STATIC PRESSURE.

- PROVIDE SUPPLY AIR PLENUM FANS AND SPRING ISOLATORS FOR FAN AND MOTOR ASSEMBLY. PROVIDE PREMIUM EFFICIENCY SUPPLY FAN O.D.P. MOTOR, MAXIMUM 1750 RPM. UNIT IS DESIGNED FOR CONSTANT VOLUME DUTY. PROVIDE FACTORY MOUNTED AND WIRED VARIABLE FREQUENCY DRIVE OR ADJUSTABLE SHEAVE FOR AIRFLOW BALANCING. FANS MAY BE BELT DRIVE OR DIRECT DRIVE.
- PROVIDE FACTORY DESIGNED ENERGY RECOVERY FUNCTION WITH 100% OUTDOOR AIR UNIT. PROVIDE SILICA GEL OR MOLECULAR SIEVE TYPE ENTHALPY (SENSIBLE AND LATENT) WHEEL, DRIVE AND MOTOR. WHEEL MEDIA/SUBSTRATE SHALL BE POLYMER OR ALUMINUM.
- PROVIDE HINGED INSULATED GASKETED DOUBLE WALL ACCESS DOORS FOR ACCESS TO WHEEL, FANS, COIL, DAMPERS, FILTERS AND ALL OTHER ITEMS REQUIRING SERVICING. PROVIDE FULL LENGTH ALUMINUM OR STAINLESS STEEL HINGES AND ¼ TURN HANDLES.
- PROVIDE FILTER RACK WITH 2" DEEP MERV 8 PLEATED FILTERS IN SUPPLY AND EXHAUST AIR STREAMS. MAXIMUM FILTER VELOCITY SHALL BE SAME AS AIR COIL VELOCITY. SEE FILTER SCHEDULE FOR FILTER DATA.
- PROVIDE MOTORIZED FRESH AIR INTAKE HOOD WITH MANUAL OPPOSED BLADE DAMPER AND BIRDSCREEN.
- PROVIDE FACTORY WIRED MICROPROCESSOR CONTROLS INCLUDING ALL STARTERS AND CONTACTORS AND FACTORY WIRED CONTROL PANEL. PROVIDE FACTORY MOUNTED NON-FUSED DISCONNECT SWITCH FOR SINGLE POINT POWER CONNECTION TO ENTIRE UNIT. PROVIDE FACTORY PROVIDED TEMPERATURE AND HUMIDITY SENSORS FOR COMPLETE STAND ALONE OPERATION. DDC SYSTEM SHALL ONLY ENABLE/DISABLE UNIT AND MONITOR FAULT OUTPUTS, NOT INCLUDING UNIT. PROVIDE DDC INTERFACE CARD.
- PROVIDE MINIMUM 6 ROW DX (REFRIGERANT) COOLING COIL IN SUPPLY AIR STREAM (DOWNSTREAM OF ENTHALPY WHEEL), COPPER TUBES AND ALUMINUM FINNS FOR ERU-1. PROVIDE MIN. 3 ROW COIL FOR ERU-2 AND MIN. 2 ROW COIL FOR ERU-3. PROVIDE STAINLESS STEEL COIL CASING AND STAINLESS STEEL SUPPORTS AND STAINLESS STEEL BLANKOFFS BETWEEN COIL CASING AND INTERIOR PANELS FOR ALL UNITS.
- SUPPLY FAN STATIC PRESSURE SCHEDULED DOES NOT INCLUDE FILTERS, WET COOLING COIL, DAMPERS, REHEAT COILS, OR SYSTEM EFFECT LOSSES.
- PROVIDE SELF DRAINING DOUBLE WALL, DOUBLE SLOPED 304 STAINLESS STEEL DRAIN PAN UNDER COOLING COIL. PROVIDE TRAPPED CONDENSATE DRAIN. SEE CONDENSATE DRAIN TRAP DETAIL.
- PROVIDE SUPPLY AND EXHAUST DUCT CONNECTIONS IN THE SAME LOCATIONS AS THE BASIS OF DESIGN, TO ENABLE THE UNIT TO BE INSTALLED AND DUCTED AS DESIGNED.
- PROVIDE FACTORY MOUNTED AIR COOLED CONDENSER MATCHED TO COOLING COIL. COMPRESSORS SHALL BE SCROLL TYPE, AND LEAD COMPRESSOR SHALL BE VARIABLE CAPACITY. DIGITAL SCROLL TYPE TO MODULATE FROM 100 TO 10% OF ITS CAPACITY AT LOW LOAD CONDITIONS. ALL REFRIGERANT LINES TO BE FACTORY INSTALLED AND SIZED. CONDENSING UNIT SHALL BE PROVIDED WITH ALL INTEGRAL CONTROLS INCLUDING CONTACTORS, 5 MINUTE COMPRESSOR TIME DELAY RELAY, COMPRESSOR OVER TEMPERATURE (OVERLOAD) PROTECTION. PROVIDE LIQUID LINE AND SUCTION LINE SERVICE VALVES/PORTS. PROVIDE HIGH PRESSURE SWITCH AND LOW PRESSURE SWITCH, THERMAL EXPANSION VALVE, FILTER DRIER, SIGHT GLASS AND FULL REFRIGERANT CHARGE. UNIT SHALL UTILIZE R-454B REFRIGERANT.
- PROVIDE CUSTOM CURB ADAPTER TO TRANSITION FROM NEW ERV BASE SIZE TO EXISTING CURB SIZE. FIELD VERIFY EXISTING CURB SIZE.
- PROVIDE FACTORY INSTALLED NON-POWERED G.F.I. CONVENIENCE OUTLET.
- PROVIDE EXHAUST HOOD WITH GRAVITY DAMPER AND BIRDSCREEN.
- PROVIDE A FULL CHARGE OF R-454B REFRIGERANT AND COMPRESSOR OIL. PROVIDE REFRIGERANT LEAK MONITOR/SENSOR DESIGNED TO SHUT UNIT DOWN IN EVENT OF REFRIGERANT LEAK.
- PROVIDE FACTORY INSTALLED OUTDOOR AIR MEASURING STATION.

[illegible][illegible]

KITCHEN EXHAUST FANS							
TAG	ACCUREX MODEL NO.	EXHAUST CFM	APPROX. ESP (IN.WG)	EXHAUST FAN HP	SONES	NOTES:	EXISTING VOLTAGE/PHASE *
KEF-1	XCUR-360-30	9400	1.0	2.58	18.2	1/2 3/4	460/3
* EXISTING VOLTAGES SHOWN ARE BASED ON ORIGINAL ELECTRICAL DRAWINGS AND SHALL BE FIELD VERIFIED AT CIRCUIT BREAKER AND COORDINATED WITH ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING.							
1. UL LISTED UP-BLAST GREASE FANS, PROVIDE BELT DRIVE WITH ADJUSTABLE SHEAVE.							
2. KITCHEN EXHAUST FAN SHALL BE SUPPORTED ON NEW CURB CAP ADAPTER ATOP EXISTING ROOF CURB.							
3. PROVIDE UL 762 CONSTRUCTION FOR GREASE EXHAUST FANS, PROVIDE ALUMINUM GREASE BOX AND GREASE DRAIN INTO GREASE BOX. PROVIDE HINGED CURB CAP KIT WITH RESTRAINING CABLES TO ALLOW MAINTENANCE TO HINGE FAN TO GAIN ACCESS TO WHEEL AND DUCT FOR CLEANING AND INSPECTION. SEE KITCHEN VENTILATION FAN DETAIL. PROVIDE GREASE BOX AND GREASE PIPE.							
4. PROVIDE FACTORY MOUNTED NEMA-3R DISCONNECT FOR EXHAUST FAN, AND FAN BASE WITH HINGES.							

ROOF MOUNTED INTAKE VENTILATORS

TAG	MODEL NUMBER	INLET AREA (SQ. FT.)	THROAT AREA (SQ. FT.)	CFM	MAXIMUM P.D. IN. W.G.	DAMPER SIZE	NOTES
IV-1	GRSI-08	1.30	0.37	60	0.04	8X8	1-2,3
IV-2	GRSI-15	2.57	1.12	700	0.08	16X16	1-2,3
IV-3	GRSI-15	2.57	1.12	700	0.08	16X16	1-2,3
IV-4	GRSI-10	1.72	0.57	400	0.08	10X10	1-2,3
IV-5	GRSI-16	3.02	1.45	1050	0.08	16X16	1-2,3
IV-6	GRSI-15	2.57	1.12	700	0.08	16X16	1-2,3
IV-7	GRSI-15	2.57	1.12	775	0.08	16X16	1-2,3
IV-8	GRSI-15	2.57	1.12	700	0.08	16X16	1-2,3

1. LOW SILOUETTE SPUN ALUMINUM INTAKE VENTILATOR WITH GALVANIZED BIRDSCREEN. PROVIDE ONE PIECE HEAVY GAUGE REMOVABLE ALUMINUM COVER WITH ACORN NUTS.
2. MOUNT ATOP EXISTING ROOF CURB. PROVIDE ROOF CURB ADAPTER AS REQUIRED TO ALLOW FOR MOUNTING ATOP EXISTING CURB. PROVIDE DAMPER TRAY FOR CONNECTION TO DUCTWORK, EVEN IF DAMPER NOT SPECIFIED.
3. PROVIDE MOTORIZED TWO POSITION BACKDRAFT DAMPER IN NECK OF VENTILATOR. SEE ROOF VENTILATOR WITH MOTORIZED INTAKE DAMPER DETAIL.

FILTERS								
FILTER TYPE	CAMFIL FARR FILTER MODEL NUMBER	APPLICATION	MAXIMUM PRESSURE DROP @ INITIAL FACE VELOCITY		ASHRAE 52-1992 DUST SPOT EFFICIENCY	ASHRAE MERV	FILTER THICKNESS	NOTES:
			PD IN WG	FPM				
PLEATED	20-20	WATER SOURCE HEAT PUMPS	0.09	250	20%	8	1"	1:2:3:4:5
PLEATED	30-30	ENERGY RECOVERY UNITS	0.28	500	30%	8	2"	1:2:3:4:5
PLEATED	30-30	ROOFTOP AIR CONDITIONERS	0.28	500	30%	8	2"	1:2:3:4:5
1.	UL CLASS 2, MEDIUM EFFICIENCY, COTTON AND SYNTHETIC MEDIA FILTER.							
2.	PROVIDE RIGID HEAVY DUTY FRAME BONDED TO MEDIA WITH WELDED WIRE PLEATED SUPPORT GRID TO MAINTAIN RADIAL PLEAT.							
3.	FILTER MINIMUM EFFICIENCY REPORTING VALUE (MERV) BASED ON EVALUATION IN ACCORDANCE WITH ASHRAE STANDARD 52.2							
4.	CONTRACTOR SHALL PROVIDE PLEATED FILTERS DURING CONSTRUCTION AND REPLACE WITH NEW CLEAN PLEATED FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.							
5.	FILTER SIZE AND FILTER QUANTITIES FOR EACH PIECE OF EQUIPMENT SHALL BE DETERMINED BY EQUIPMENT MANUFACTURER, UNLESS SPECIFIC SIZE IS SHOWN ON DRAWINGS.							

MECHANICAL LEGEND	
	GRILLE, REGISTER, DIFFUSER DESIGNATION WITH CFM SHOWN BELOW FOR TAB FIRM TO BALANCE DEVICE
	RECTANGULAR (OR FLAT OVAL) DUCT SIZE: 1ST DIMENSION IS SIZE DRAWN RIGID ROUND DUCTWORK (OR FLUE PIPING)
	RECTANGULAR TO ROUND TRANSITION
	FLEXIBLE CONNECTION
	DUCT LINER - SEE SPECIFICATION OR SHEET NOTES FOR THICKNESS AND TYPE
	SQUARE ELBOW WITH TURNING VANES
	45° BRANCH ENTRY FITTING
	90° ROUND TO ROUND SADDLE TAP
	MANUAL VOLUME DAMPER
	AUTOMATIC VOLUME DAMPER
	SUPPLY DUCT TO OR FROM ABOVE (OR SUPPLY GRILLE)
	RETURN DUCT TO OR FROM ABOVE (OR RETURN GRILLE)
	ROOF MOUNTED EQUIPMENT
	CONCRETE EQUIPMENT PAD
	SUPPLY ARROW INDICATING DIRECTION OF AIRFLOW OR DUCT/PIPE OFFSET UP
	RETURN OR EXHAUST AIRFLOW (DIRECTION)
	THERMOSTAT OR TEMPERATURE SENSOR WITH LOCKING COVER
	THERMOSTAT OR TEMPERATURE SENSOR
	CONVENTIONAL SNAP-ACTION THERMOSTAT OR TEMPERATURE SENSOR
	WALL MOUNTED SWITCH
	CARBON DIOXIDE SENSOR
	HUMIDISTAT OR HUMIDITY SENSOR
	POWER CONTACTOR PROVIDED BY MECHANICAL
	DUCT MOUNTED SMOKE DETECTOR (PROVIDED AND WIRED BY ELEC.)
	FLOW SWITCH
	FLOW METER
	DIFFERENTIAL PRESSURE SENSOR
	OVERRIDE TIMER
	DIRECTION OF FLOW
	HOT WATER SUPPLY & RETURN PIPING
	LOOP WATER SUPPLY & RETURN PIPING
	CONDENSER WATER SUPPLY & RETURN PIPING
	CONDENSATE DRAIN PIPING
	VENT PIPING
	GAS PIPING
	REFRIGERANT PIPING
	MAKE-UP WATER PIPING
	CHEMICAL WATER TREATMENT PIPING
	PRESSURE RELIEF PIPING
	AUTOMATIC FLOW CONTROL VALVE
	PIPE SLEEVE THROUGH WALL OR FLOOR - SEE PIPE SLEEVE DETAIL
	DROPPING OR RISING PIPE
	PIPE TO OR FROM ABOVE
	CALIBRATED VENTURI/ WITH PRESSURE & TEMPERATURE PORTS
	BALL VALVE FOR 2" AND UNDER, BUTTERFLY VALVE FOR 2-1/2" AND ABOVE
	CHECK VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	RELIEF VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	CAPPED PIPING, OR BLIND FLANGE (BF)
	PIPE UNION
	FLANGED JOINT
	SPHERICAL RUBBER FLEXIBLE PIPE CONNECTOR
	"Y" TYPE INLINE PIPE STRAINER
	"Y" TYPE INLINE PIPE STRAINER 2" & LARGER (WITH BLOWDOWN VALVE)
	ECCENTRIC PIPE REDUCER, CONCENTRIC PIPE REDUCER
	AUTOMATIC AIR VENT - PIPE TO NEAREST FLOOR DRAIN. SEE AAV DETAIL.
	GAUGE COCK, DIAL TYPE PRESSURE GAUGE
	THERMOMETER WELL, STEM TYPE THERMOMETER - SEE THERMOMETER DETAIL
	TEMPERATURE AND PRESSURE TEST PORTS (P&T's)
	PIPE ELBOW - 45° OR 90°
	PIPE TEE
	DB, WB DRY BULB, WET BULB
	SS STAINLESS STEEL
	FPM FEET PER MINUTE
	CFM CUBIC FEET PER MINUTE (AIRFLOW)
	OA OUTSIDE AIR
	MBH BTU's PER HOUR x 1000
	APPROXIMATELY
	EXTERNAL STATIC PRESSURE (INCHES OF WATER GAUGE)
	HORSEPOWER
	RPM REVOLUTIONS PER MINUTE (MOTOR SPEED)
	UNLESS OTHERWISE NOTED
	ABOVE FINISHED FLOOR
	UNDERCUT
	GPM GALLONS PER MINUTE (WATERFLOW)
	KW KILOWATTS
	TEMPERATURE DIFFERENCE
	BOTTOM ELEVATION - TOP ELEVATION
	NOT IN CONTRACT
	RELATIVE HUMIDITY
	NOT TO SCALE
	LIMIT OF SCOPE OF WORK
	SECTION OR DETAIL IDENTIFICATION NUMBER
	SHEET NUMBER ON WHICH SECTION OR DETAIL IS SHOWN
DEMOLITION LEGEND	
	EXISTING EQUIPMENT, PIPING OR DUCTWORK TO REMAIN
	EXISTING EQUIPMENT, PIPING OR DUCTWORK TO BE REMOVED

DEMOLITION LEGEND	
	EXISTING EQUIPMENT, PIPING OR DUCTWORK TO REMAIN
	EXISTING EQUIPMENT, PIPING OR DUCTWORK TO BE REMOVED



MECHANICAL NEW WORK FLOOR PLAN – SECTOR B

1/8" = 1'-0"

NOTES GENERAL: (THIS SHEET ONLY)

- A. RTAC AND WSHWP TAGS INCLUDE NUMBER TO DESIGNATE INDIVIDUAL UNIT, AND INCLUDES ROOM NUMBER TO INDICATE MAIN ROOM SERVED BY EQUIPMENT.
- B. ALL CONTROL WORK IS BEING PERFORMED IN THIS CONTRACT BY THE OWNER'S COUNTY-WIDE CONTROL COMPANY (CONTROL CONCEPTS, INC). INSTALLATION OF CONTROL WIRING/DDC CONTROLLERS, TEMPERATURE SENSORS, ETC., SHALL BE PERFORMED BY CONTROLS CONTRACTOR.
- C. CONTRACTOR IS ADVISED THAT INSTALLED LOCATIONS OF WSHWP, AND SUPPLY AND RETURN DUCT FREQUENTLY DIFFERED FROM ORIGINAL DESIGN DRAWINGS. CONTRACTOR SHALL FIELD VERIFY WSHWP AND DUCT LOCATIONS PRIOR TO ORDERING WSHWPS TO CONFIRM CORRECT SUPPLY / RETURN CONNECTION ARRANGEMENT.
- D. PROVIDE SHEET METAL 90° ELBOW AT ALL CEILING GRILLES CONNECTED TO FLEX DUCTS, AS SHOWN IN CEILING GRILLE DUCT CONNECTION DETAIL.

NOTES: (THIS SHEET ONLY)

1. INSTALL NEW WALL HUNG AIR CONDITIONER IN THIS LOCATION WHERE UNIT WAS REMOVED DURING DEMOLITION. PROVIDE MANUFACTURER'S WALL CURB TO ALLOW INSTALLATION OF NEW UNIT TO UTILIZE EXISTING SUPPLY AND RETURN GRILLES AND WALL OPENINGS. RECONNECT GAS PIPING TO UNIT (SEE PLUMBING DRAWINGS FOR SIZE). ROUTE NEW CONDENSATE DRAIN LINE TO DISCHARGE INTO SAME LOCATION PRIOR TO DEMOLITION. SEE WALL HUNG AIR CONDITIONER DETAIL.
2. EXISTING CONCRETE EQUIPMENT PAD IN THIS APPROXIMATE LOCATION TO REMAIN.
3. EXISTING DUCTLESS HEAT PUMP/CONDENSING UNIT TO REMAIN.
4. EXISTING WALL MOUNTED DUCTLESS FAN COIL UNIT AND ALL ASSOCIATED APPURTENANCES TO REMAIN AT THIS APPROXIMATE LOCATION.
5. EXISTING THERMOSTAT TO REMAIN. FIELD VERIFY EXACT LOCATION AS NECESSARY.
6. INSTALL NEW DDC TEMPERATURE SENSOR IN THIS APPROXIMATE LOCATION.
7. NEW CONDENSING UNIT MOUNTED ATOP EXISTING CONCRETE PAD. SEE HEAT PUMP/CONDENSING UNIT DETAIL. ROUTE REFRIGERANT PIPING TO ASSOCIATED FAN COIL UNIT UTILIZING EXISTING WALL OPENING.
8. NEW COMBINATION DDC TEMPERATURE SENSOR/HUMIDITY SENSOR INSTALLED IN SAME LOCATION AS TEMPERATURE SENSOR REMOVED DURING DEMOLITION. CONTROL CONTRACTOR VERIFY EXISTING SENSOR LOCATION.
9. MOUNT NEW ROOFTOP UNIT ATOP EXISTING ROOF CURB WITH CURB ADAPTER. RECONNECT TO EXISTING SUPPLY & RETURN DUCTS REMAINING FROM DEMOLITION. FIELD VERIFY DUCT LOCATIONS.
10. INSTALL NEW FAN COIL UNIT IN LOCATION UNIT WAS REMOVED DURING DEMOLITION. SEE VERTICAL FAN COIL UNIT NEW WORK DETAIL FOR ADDITIONAL INFORMATION.
11. REINSTALL NEEDLEPOINT BIPOLAR IONIZATION UNIT (NPBIU) REMOVED DURING DEMOLITION IN NEW WALL HUNG AIR CONDITIONER. INSTALL IN LOCATION (I.E. AT FAN INLET OR IN DUCTWORK) NPBIU WAS REMOVED FROM DEMOLISHED UNIT.
12. REINSTALL NEEDLEPOINT BIPOLAR IONIZATION UNIT (NPBIU) REMOVED DURING DEMOLITION IN NEW ROOFTOP UNIT. INSTALL IN LOCATION (I.E. AT FAN INLET OR IN DUCTWORK) NPBIU WAS REMOVED FROM DEMOLISHED UNIT.
13. EXISTING HEAT PUMP UNIT TO REMAIN.
14. EXISTING VERTICAL DX FAN COIL UNIT TO REMAIN.

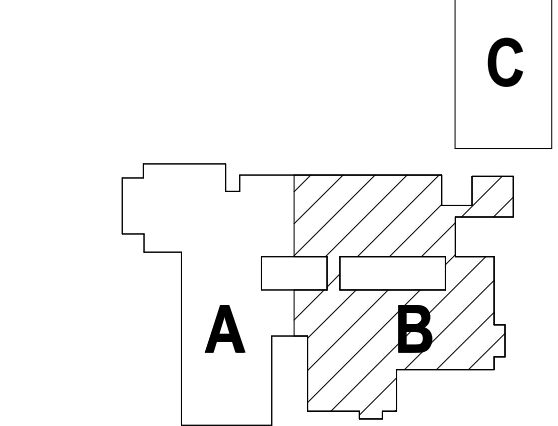
NOTE CONCERNING EXISTING DUCT SYSTEMS:

THIS PLAN SHOWS CERTAIN PIECES OF MECHANICAL EQUIPMENT OR SYSTEMS TO BE REMOVED AND/OR REPLACED. THERE ARE EXISTING DUCT SYSTEMS ASSOCIATED WITH THIS EQUIPMENT THAT ARE NOT SHOWN ON THESE PLANS, AND THESE DUCT SYSTEMS ARE EXISTING TO REMAIN. THERE ARE ALSO OTHER DUCTWORK SYSTEMS FOR OTHER EXISTING TO REMAIN HVAC SYSTEMS THAT ARE NOT SHOWN, AND THESE SYSTEMS AND DUCT ARE EXISTING TO REMAIN.

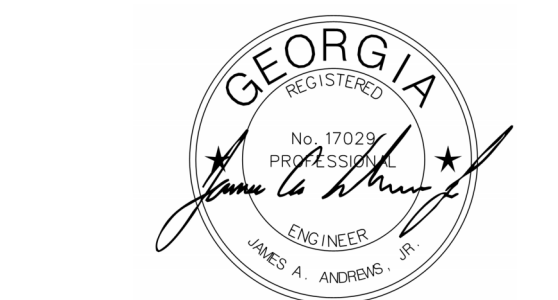


HCS Group 6-1 - HVAC Replacement
SMITH BARNES ELEMENTARY SCHOOL
147 TYE STREET, STOCKBRIDGE, GA 30281

CONTRACT DRAWINGS
CLIENT PROJECT NUMBER: 260013



KEY PLAN



CLIENT Henry County Board of Education		
DATE 05 / 29 / 2026		PROJECT NUMBER 260013
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

MECHANICAL NEW
WORK FLOOR PLAN –
SECTOR B

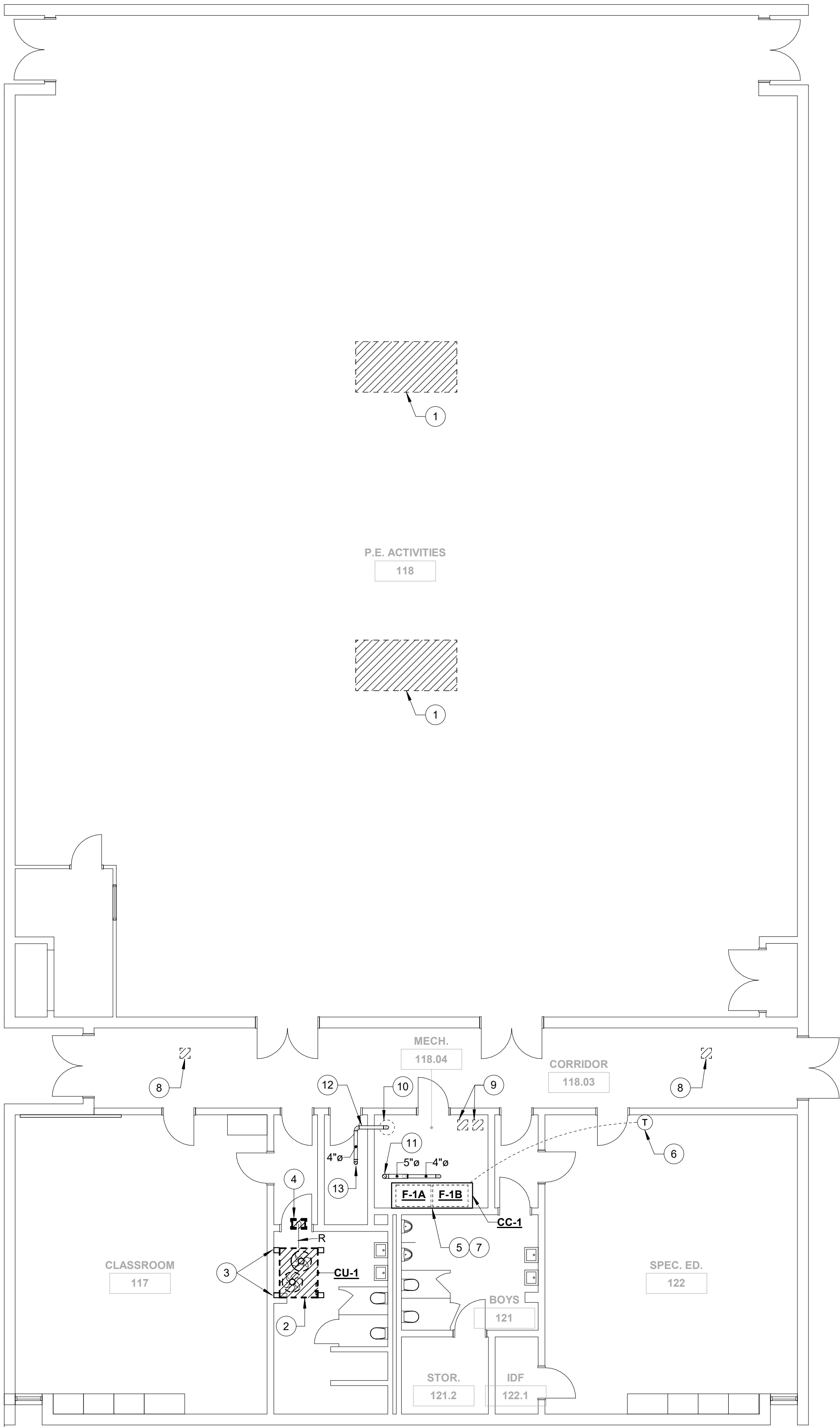
M102

NOTES GENERAL: (THIS SHEET ONLY)

- A. RTAC AND WSHP TAGS INCLUDE NUMBER TO DESIGNATE INDIVIDUAL UNIT. AND INCLUDES ROOM NUMBER TO INDICATE MAIN ROOM SERVED BY EQUIPMENT.
- B. ALL CONTROL WORK IS BEING PERFORMED IN THIS CONTRACT BY THE OWNER'S COUNTY-WIDE CONTROL COMPANY (CONTROL CONCEPTS, INC). INSTALLATION OF CONTROL WIRING/DDC CONTROLLERS, TEMPERATURE SENSORS, ETC., SHALL BE PERFORMED BY CONTROLS CONTRACTOR.
- C. CONTRACTOR IS ADVISED THAT INSTALLED LOCATIONS OF WSHP, AND SUPPLY AND RETURN DUCT FREQUENTLY DIFFERED FROM ORIGINAL DESIGN DRAWINGS. CONTRACTOR SHALL FIELD VERIFY WSHP AND DUCT LOCATIONS PRIOR TO ORDERING WSHP'S TO CONFIRM CORRECT SUPPLY / RETURN CONNECTION ARRANGEMENT.
- D. PROVIDE SHEET METAL 90° ELBOW AT ALL CEILING GRILLES CONNECTED TO FLEX DUCTS, AS SHOWN IN CEILING GRILLE DUCT CONNECTION DETAIL.

NOTES: (THIS SHEET ONLY)

1. EXISTING ROOFTOP UNIT TO REMAIN.
2. NEW ROOF MOUNTED CONDENSING UNIT MOUNTED ATOP ROOF MOUNTED EQUIPMENT SUPPORT RAILS.
3. NEW ROOF MOUNTED EQUIPMENT SUPPORT RAILS. SEE EQUIPMENT SUPPORT RAIL DETAIL.
4. NEW ROOF MOUNTED PIPE BOX. ROUTE NEW REFRIGERANT PIPING FROM CU-1 THROUGH NEW PIPE BOX AND DOWN TO CONNECTION TO CC-1. SEE FURNACE NEW WORK DETAIL.
5. NEW VERTICAL 'TWINNED' NATURAL GAS FURNACE AND COOLING COIL. SEE FURNACE NEW WORK DETAIL FOR ADDITIONAL INFORMATION.
6. MOUNT NEW THERMOSTAT IN SAME LOCATION AS SENSORS RELOCATED/REMOVED.
7. REINSTALL NEEDLEPOINT BIPOLAR IONIZATION UNIT (NPBIU) REMOVED DURING DEMOLITION IN NEW TWINNED FURNACES. INSTALL IN LOCATION (I.E. AT FAN INLET OR IN DUCTWORK) NPBIU WAS REMOVED FROM DEMOLISHED UNIT.
8. EXISTING ROOF MOUNTED OUTDOOR AIR INTAKE TO REMAIN. FIELD VERIFY EXACT LOCATION.
9. EXISTING ROOF MOUNTED COMBUSTION AIR INTAKE TO REMAIN. FIELD VERIFY EXACT LOCATION.
10. EXISTING WATER HEATER TO REMAIN.
11. 5" DIAMETER TYPE AL-294C FURNACE FLUE RISES THRU EXISTING ROOF CURB. SEE FURNACE NEW WORK DETAIL FOR ADDITIONAL INFORMATION.
12. 4" DIAMETER TYPE AL-294C FLUE ROUTED FROM CONNECTION TO EXISTING WATER HEATER. PROVIDE FIRE RESISTANT CAULK/SEALANT AT FLUE PENETRATION OF EXISTING WALL(S).
13. 4" DIAMETER TERMINATES ABOVE ROOF LEVEL. SEE FLUE THRU ROOF DETAIL. SEE FURNACE NEW WORK DETAIL FOR ADDITIONAL INFORMATION.



MECHANICAL NEW WORK FLOOR PLAN – SECTOR C

1/8" = 1'-0"

NOTE CONCERNING EXISTING DUCT SYSTEMS:

THIS PLAN SHOWS CERTAIN PIECES OF MECHANICAL EQUIPMENT OR SYSTEMS TO BE REMOVED AND/OR REPLACED. THERE ARE EXISTING DUCT SYSTEMS ASSOCIATED WITH THIS EQUIPMENT THAT ARE NOT SHOWN ON THESE PLANS, AND THESE DUCT SYSTEMS ARE EXISTING TO REMAIN. THERE ARE ALSO OTHER DUCTWORK SYSTEMS FOR OTHER EXISTING TO REMAIN HVAC SYSTEMS THAT ARE NOT SHOWN, AND THESE SYSTEMS AND DUCT ARE EXISTING TO REMAIN.



GREEN, GA
770.527.0493
www.pbk.com

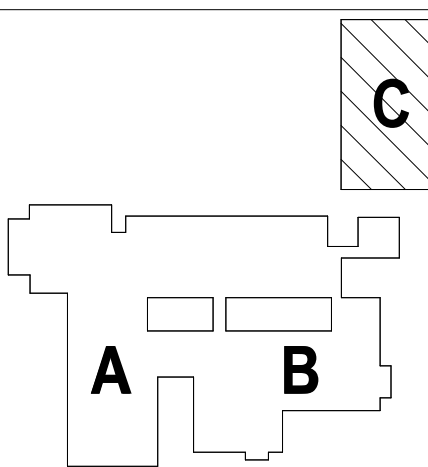


HCS Group 6-1 - HVAC Replacement
SMITH BARNES ELEMENTARY SCHOOL

147 TYE STREET, STOCKBRIDGE, GA 30281

CONTRACT DRAWINGS

CLIENT PROJECT NUMBER: 260013



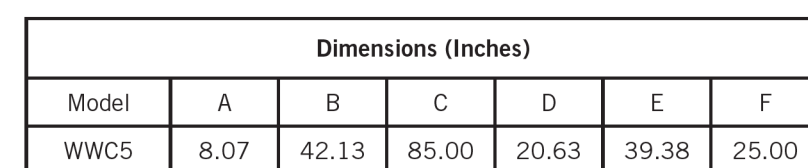
KEY PLAN



CLIENT		
Henry County Board of Education		
DATE	PROJECT NUMBER	
05 / 29 / 2026	260013	
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

MECHANICAL NEW
WORK FLOOR PLAN –
SECTOR C

M103

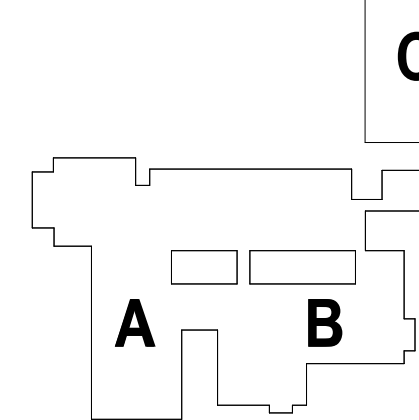


**HCS Group 6-1 - HVAC Replacement
SMITH BARNES ELEMENTARY SCHOOL**

147 TYE STREET, STOCKBRIDGE, GA 30281

CONTRACT DRAWINGS

CLIENT PROJECT NUMBER: 260013



KEY PLAN



CLIENT		
Henry County Board of Education		
DATE	PROJECT NUMBER	
05 / 29 / 2026	260013	
DRAWING HISTORY		
No.	Description	Date
1	Addendum No. 1	07/02/2026
CHECKED BY: WMH		
DRAWN BY: BCS		

MECHANICAL DETAILS

M501

