

ADDENDUM NUMBER TWO (2)



Project: Nancy Lopez Elementary School
1600 E. Tilden Street
Roswell, New Mexico

Date: March 22, 2024

From: PA Architects

To: Prospective Proposers

This addendum forms a part of the Contract Documents and modifies the original Proposal Documents (construction drawings and the Project Manual), dated December 22, 2023, as noted below. Acknowledge receipt of this Addendum in the space provided on the Proposal Form. Failure to do so may subject the Proposer to disqualification.

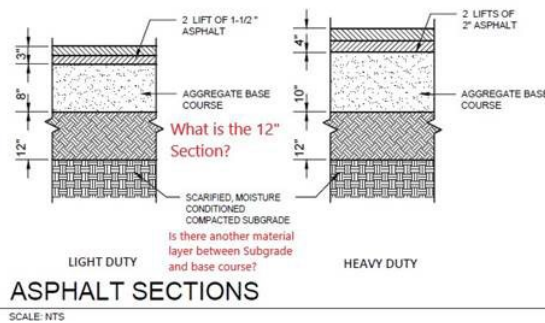
This Addendum consists of **3** pages and referenced attachments.

NOTE TO POTENTIAL OFFERORS: All written questions or request for Product Substitutions received to date, but NOT responded to in this Addendum will be addressed in future Addenda.

RFP QUESTIONS

- Q:** At prebid meeting the subcontractor listing threshold is shown at \$114,693.66 but Project Manual Volume One page 24, Tab 2B says 5% of architect's estimate of \$22,938,732.00 which equals \$1,146,936.60. Same listing for subcontractor qualification statement. Please advise which is correct the 5% or the 0.5% **ANSWER:** Qualifications Statement listing threshold is 5% of the Architect Estimate of \$22,938,732.00 879.51. The threshold is therefore \$\$1,146,936.60 for all sub-contractors.
- Q:** Is the existing 12" clay pipe an active sewer line? **ANSWER:** Yes, the sewer line is active, and the Contractor is responsible for protecting the sewer line during construction.
- Q:** Asphalt Paving Sections- Which detail do we use for Asphalt Pavement Sections? The plans are different than specification. **ANSWER:** Pavement section shall be as specified in Section 32 1216 Asphalt Paving.
- Q:** On page S-002 - II - A Quality Assurance it states "the contractor shall engage qualified independent inspectors for quality insurance, etc. The specifications under 01 4000-1.2-A state the Owner shall appoint, employ, and pay for these services. Just to be clear, the owner will be paying for all special inspections and testing on Nancy Lopez, correct? Including earthwork compaction/gradation, concrete, rebar, steel, etc. **ANSWER:** the Owner will be paying for special inspections.
- Q:** Detail C4/AS 501 note 26 shows vert bars #5 at 32 inches on center. Detail 4/S 301 shows vert #5 bars at 8 inches on center. Please verify spacing. **ANSWER:** Detail C4/AS-501 is for free-standing yard walls. Detail 4/S-301 is applicable only to CMU walls located within the building footprint (i.e. waiting room).
- Q:** Please advise if each "triangle" on the plans stands for just 1 each Simpson tie or if every stud in that wall requires the Simpson tie/all threads. **ANSWER:** Each triangle represented (1) Simpson strong tie hold down. See detail 14/S-301.
- Q:** Is the asphalt paving on-site, Light duty or heavy duty, AS-101 note 8 says refer to civil, there is not a notation on the plans. **ANSWER:** The asphalt specifications shall govern, section 3.7.A directs where light and heavy-duty asphalt is to be placed.
- Q:** AS-101 note 14 says refer to civil, there is not a notation on the plans. **ANSWER:** The basketball concrete thickness shall be 4".

9. **Q:** There is a detail for gravel parking, where is the proposed gravel parking area if any? **ANSWER:** The gravel paving section should be deleted as it is Not Applicable for this project.
10. **Q:** Please see the below detail with question.



ANSWER: Please refer to the Asphalt specification for required paving section components.

11. **Q:** Can you please provide location and type of curbs at the Asphalt Paving areas? I see the details for landscape and playground curbs but can't find the ones by asphalt area. **ANSWER:** See detail A1/ C-501 for curb and gutter.
12. **Q:** Are there any flowline or top of curbs elevations for the work on Alameda Street? Note on sheet 3 of 6 refers to Details on 6 of 6, however the details show the slope varies across the pavement. I would assume the drainage would go to the new inlet at STA 10+81.31. **ANSWER:** The existing asphalt grades along Alameda will be the basis for the curb and gutter elevations. After the existing asphalt paving has been sawcut, then the new asphalt will be placed with a 2% cross-slope down toward the gutter to establish the new gutter elevation.
13. **Q:** Where is the (landscape irrigation) water source Point of Connection? **ANSWER:** The water source for landscaping is stubbed out as a 2" line in the Fire Riser room. That is called out on P-102 keyed note 5 and shown on the riser diagram on sheet P-402.
14. **Q:** The plant legend calls for 1' OC spacing each way. Are we to assume this to be square spacing opposed to triangular spacing? **ANSWER:** Triangular spacing.
15. **Q:** Is the irrigation system to be drip or bubbler for the plantings? **ANSWER:** Drip or bubbler are acceptable.
16. **Q:** Is there a color preference for the crusher fines mulch? **ANSWER:** Santa Fe Brown.

ARCHITECTURAL

1. CHANGES TO THE SPECIFICATIONS:

- a. Volume One, Section 00 119 RFP, page 14, IIA, SEQUENCE OF EVENTS: Delete "A. SEQUENCE OF EVENTS" and replace with the attached SEQUENCE OF EVENTS.
- b. Add the attached SECTION 07 2100 THERMAL INSULATION.
- c. SECTION 09 3113- TILE SETTING MATERIALS: 2.8.A: Change to read
 - A. Water Cleanable Tile Setting and Grouting Epoxy; ANSI A118.3: **Shall be used in all areas.**
 1. ProEpoxy; a 100% solids, non-porous, high strength, epoxy grout and mortar for heavy duty performance. Color selected by the architect from the manufacturer's standard color line."

2. CHANGES TO THE DRAWINGS:

- a. SHEET AS-101 SITE PLAN: To keyed note 55, Pavement Markers, add: "4"x4"x 3/4" 2-way pavement markers; RPM8-KIT as manufactured by Emedco (www.emedco.com) or architect prior approved product of equal performance.
- a. SHEET A-601 ROOM FINISH SCHEDULE: Room number 316 Vestibule, delete reference to polished concrete. The entire vestibule shall receive Walk-Off Mat as specified in Section 09 6813 CARPET TILE, paragraph 2.09.b.: "Assertive Action Modular."

3. **MANUFACTURER'S PRIOR APPROVALS:** All request for Product Substitution submitted in accordance with Sections 01 6300 and 01 6301 received to date, but not responded to in this Addendum, will be addressed in future Addenda.
4. **CLARIFICATIONS:**
 - a. Liquidated Damages: In the Bid Form 00 4113, page 3, Liquidated Damages are listed as One Thousand Five Hundred Dollars (\$1,500) per consecutive day.
 - b. The Walk-Off Mat is specified in Section 09 6813 CARPET TILE, paragraph 2.09.b.: "Assertive Action Modular."

CIVIL

1. **CHANGES TO THE SPECIFICATIONS:**
 - a. SECTION 32 1216- ASPHALT PAVING:
 - i. Delete all references to the seal coat.
2. **CHANGES TO THE DRAWINGS:**
 - a. SHEET C-501- CIVIL DETAILS:
 - i. Aggregate Fire Lane Pavement Section: change 10" depth of aggregate base course to 14" depth per the Geotech report.
 - ii. Delete the Gravel Parking Section detail in its entirety.

STRUCTURAL

1. **CHANGES TO THE DRAWINGS:**
 - a. Sheet S-002 - II - A Quality Assurance: the Owner shall engage and pay for Special Inspections.

MECHANICAL AND PLUMBING:

1. **CHANGES TO THE DRAWINGS:**
 - a. Delete sheet M-601 MECHANICAL GENERAL NOTES, LEGEND AND SCHEDULES. Add sheet M-601 MECHANICAL GENERAL NOTES, LEGEND AND SCHEDULES, dated 03.01.2024, attached. Note 1 on Air Distribution Device Schedule has been adjusted to make balancing damper requirements clearer.
 - b. Delete sheet M-701 MECHANICAL CONTROLS. Add sheet M-701 MECHANICAL CONTROLS, dated 03.01.2024, attached. The control schematics have been modified to make clear which portions of the controls are done by the zone controller and which controlled by the unit's on-board controller. The economizer will be operated by the unit's on-board controller and only get zone temperature input from the zone controller.
 - c. Delete Sheet P-601 PLUMBING GENERAL NOTES, LEGEND AND SCHEDULES. Add sheet P-601 PLUMBING GENERAL NOTES, LEGEND AND SCHEDULES, dated 03.01.2024, attached. The schedule for Shower (SH) has been modified to include a barrier free shower pan and remove the floor drain that had been included.

ALL OTHER TERMS AND CONDITIONS OF THE CONTRACT DOCUMENTS REMAIN UNCHANGED

Attachment 7 pages

END OF ADDENDUM

II. CONDITIONS GOVERNING THE PROCUREMENT

This section of the RFP outlines and describes the major events of the selection process and the conditions that govern this procurement.

A. SEQUENCE OF EVENTS

	Action	Responsibility	Date / Time
1.	Issue RFP	District	03/01
2.	Pre-Proposal Conference Location: 300 N. Kentucky, Roswell, NM Note: Mandatory	District Yes	03/13
3.	Deadline to Submit Written Procurement Questions re: RFP Process	Potential Offerors	03/22
4.	Response to Written Procurement Questions re: RFP Process and Addendum	District	04/01
4a.	Last date for Prior Approval/ Substitution Request	Potential Offerors	04/08
4b.	Last date for Drawings/ Technical Specifications Questions/ Interpretations	Potential Offerors	04/09
5.	Date of Release of Last Addenda Prior to Submission of Proposal	Design Professional	04/12
6.	Submission of Proposal	Offerors	04/19
6A.	Submission of Copies of Technical Proposals (NOT applicable)	Offerors	N/A
7.	Proposal Evaluation	Evaluation Committee	TBD
8.	Notice of Short Listed Offerors	Procurement Manager	04/25
9.	Interviews of Short-listed Offerors (If held)	Evaluation Committee & Offerors	05/02
10.	Issue Recommendation of Award to Governing Board/Notice of Intent to Award	Procurement Manager & Design Professional	TBD
11.	Contract Negotiations	District	TBD
12.	Issue Notice of Award, Prepare Contract	Design Professional & District	TBD
13.	Protest of Award Deadline	Offeror(s)	TBD

B. EXPLANATION OF SEQUENCE OF EVENTS

1. Issue RFP

This RFP is issued by the District in accordance with the provisions of Sections 13-1-111 and 13-1-117 NMSA 1978, General Government Administration Procurement Regulations NMAC 1.4.1.29 through 1.4.1.47, and General Government Administration Procurement Code Regulations for Use of Competitive Sealed Proposals for Construction and Facility Maintenance, Services and Repairs, NMAC 1.4.8.1 through 1.4.8.17.

2. Pre-Proposal Conference

This is the date and time of the meeting to review the RFP documents, including the Scope of Work, Response Format, Schedule, and Price Proposal requirements.

SECTION 07 2100 - THERMAL INSULATION

PART 1 -GENERAL

1.1 RELATED WORK DESCRIBED ELSEWHERE

- A. Section 06 1000: Rough Carpentry.
- B. Section 07 5423: 80 Mil Inducted Welded TPO System.
- C. Section 09 2216: Non-Structural Metal Framing.

1.2 DESCRIPTION OF WORK

- A. Extent of insulation work is shown on drawings by generic names or by abbreviations.
- B. Applications of insulation specified in this section include the following:
 - 1. Rigid, board-type foundation perimeter insulation.
 - 2. Blanket-type acoustical insulation.
 - 3. Thermal batt sound attenuation insulation

1.3 QUALITY ASSURANCE

- A. Thermal Conductivity: Thickness shown are for thermal conductivity (k value at 75°F or 24°C) specified for each material. Provide adjusted thickness as directed for equivalent use of material having a different thermal conductivity. Where insulation is identified by R value, provide appropriate thickness.

1.4 SUBMITTALS OF PRODUCT DATA

- A. Submit manufacturer's specifications and installation instructions for each type of insulation required.

1.5 PRODUCT HANDLING

- A. General Protection: Do not allow insulation materials to become wet, soiled or covered with ice or snow. Comply with manufacturer's directions and recommendations for handling, storage and protection during installation.
- B. Protection for Plastic Insulation
 - 1. Do not expose to sunlight.
 - 2. Protect against ignition at all times. Do not deliver plastic insulating materials to project site ahead of installation time. Complete installation and concealment of plastic materials as rapidly as possible in each area of work.

PART 2 -PRODUCTS

2.1 MATERIALS

- A. Design based on Owens/Corning Fiberglass Corporation.

- B. Thermal batt insulation, un-faced fiberglass wool (concealed conditions) or FRK faced white poly-scrim finish, flame spread not to exceed 25, (exposed conditions); ASTM C665, Type I or III and ASTM E136'. Thickness as shown on drawings.
 - 1. R values
 - a. 3 ½" = R13
 - b. 6" = R19
- C. Extruded Polystyrene Plastic Board Insulation: Rigid, closed-cell, extruded polystyrene insulation board with integral high-density skin; complying with FS HH-I-524B, Type II, Class B, 3 minimum 20 psi compressive strength; K value of 0.20; 0.1% maximum water absorption; manufacturer's standard lengths and widths. Flame spread of 25 or less; smoke developed rating of 50 or less. Minimum R value of 5 per 1". Extruded Polystyrene Board complying with ASTM C 578-85, Type X may be substituted at wall and perimeter locations only.
 - 1. Foundation perimeter insulation: 2" thickness.
 - 2. Building continuous insulation: 2" thickness
- D. Miscellaneous Materials:
 - 1. Adhesive for Bonding Insulation: Type recommended by insulation manufacturer and complying with fire-resistance requirements.
 - 2. Mechanical Anchors: Type and size shown or, if not shown, as recommended by insulation manufacturer for the type of application and condition of substrate.
 - 3. Protection Course Board: Rigid or semi-rigid asphalt/fiber composition board, 1/8" thick, formed under heat and pressure, standard sizes.

PART 3 -EXECUTION

3.1 INSPECTION

- A. Examine substrate and conditions under which insulation work is to be performed for unsatisfactory conditions. Do not proceed with insulation work until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. General:

- 1. Comply with manufacturer's instructions for particular conditions of installation in each case. If printed instructions are not available or do not apply to the project conditions, consult manufacturer's technical representative for specific recommendations before proceeding with the work.
- 2. Extend insulation full thickness as shown over entire area to be insulated. Cut and fit tightly around obstructions and fill voids with insulation. Remove the projections which interfere with placement.
- 3. Apply a single layer of insulation of required thickness unless otherwise shown or required to make up the total thickness.

B. Perimeter and Under-Slab Insulation:

1. On vertical surfaces, set units in adhesive applied in accordance with manufacturer's instructions. Use type adhesive recommended by manufacturer of insulation. Supplement with mechanical fasteners at 2 and 3 foot centers.

C. Sound Attenuation:

1. Fit snugly between steel studs, butt ends together tightly; tape ends.
2. Fit tightly around openings, use acoustical sealant at all penetrations such as around electrical outlets, ducts, etc.

END OF SECTION 07 2100

Table with 12 columns: MARK, OIA SUMMER TEMP F, OIA WINTER TEMP F, TOTAL COOLING MBH, TOTAL HEATING MBH, NOMINAL TONNAGE, APPROX. SYSTEM REFRIG. LBS, ELECTRICAL VOLT/PHASE/Hz, MCA, MOCP A, SOUND RANGE DBA, APPROX. WEIGHT LBS, MANUFACTURER MODEL #.

NOTES: 1. SIZE AND INSTALL REFRIGERANT PIPING BETWEEN CONDENSING UNIT AND ASSOCIATED FAN COIL UNITS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS...

Table with 12 columns: MARK, SERVICE, AIRFLOW CFM, ENT AIR DBWB DEG F, COOLING CAPACITY MBH, SENSIBLE MBH, ELECTRICAL DATA VOLT/PHASE/Hz, MCA, MOCP A, SOUND RANGE DBA, APPROX. WEIGHT LBS, TYPE, MANUFACTURER MODEL #.

NOTES: 1. UNIT SELECTED AT AN ELEVATION OF 3600 FT ABOVE SEA LEVEL. 2. PROVIDE ALL VALVES, FITTINGS AND ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM.

Table with 12 columns: MARK, SERVICE/MOUNTING, CFM, EXT. SP IN, MOTOR RPM, MOTOR WATTS, MOTOR HP, ELECTRICAL VOLT/PHASE, SONES, DRIVE, MANUFACTURER MODEL #.

NOTES: 1. FANS ARE SELECTED AT 3600 FT ABOVE SEA LEVEL. 2. PROVIDE ALL FANS WITH VIBRATION ISOLATION. 3. PROVIDE ALL CEILING FANS WITH BACKDRAFT DAMPERS.

APPROVED EQUIVALENT MANUFACTURER: COOK, TWIN CITY

Table with 12 columns: MARK, CFM, HP, EXT. SP (IN), OUTSIDE AIR CFM, COOLING DATA TOTAL (MBH), SENS. (MBH), EER, HEATING DATA OUTSIDE AIR °F, INPUT (MBH), OUTPUT (MBH), ELECTRICAL DATA VOLT/PH/Hz, MCA, MOCP, APPROX. WT. (LBS), MANUFACTURER MODEL #.

Table with 12 columns: MARK, CFM, HP, EXT. SP (IN), OUTSIDE AIR CFM, COOLING DATA TOTAL (MBH), SENS. (MBH), EER, HEATING DATA OUTSIDE AIR °F, INPUT (MBH), OUTPUT (MBH), ELECTRICAL DATA VOLT/PH/Hz, MCA, MOCP, APPROX. WT. (LBS), MANUFACTURER MODEL #.

NOTES: 1. UNITS ARE SELECTED AT AN ELEVATION OF 3600 FEET ABOVE SEA LEVEL. PROVIDE PROPER BURNERS AND ORPRCS FOR SITE ELEVATION.

ACCESSORIES: 1. 14" HIGH INSULATED ROOF CURB, SLOPED TO MATCH PITCH OF ROOF TO ALLOW UNIT TO SIT LEVEL. 2. COMPRESSOR SHORT CYCLE PROTECTION.

APPROVED EQUIVALENT MANUFACTURER: CARRIER, RHEEM

Table with 7 columns: MARK, DESCRIPTION, MOUNTING, MANUFACTURER MODEL #, MATERIAL, FINISH, REMARKS.

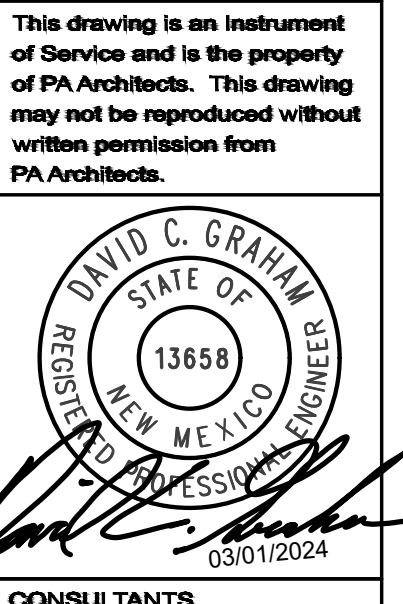
NOTES: 1. PROVIDE BALANCING DAMPERS ON ALL SUPPLY OUTLETS. DAMPERS SHALL HAVE LOCKING QUADRANTS WITH 2" STANDOFF THROUGH GRILLE OPPOSED BLADE TYPE DAMPERS WILL BE USED FOR DUCT-MOUNTED SUPPLY AND AREAS THAT WOULD OTHERWISE NOT ALLOW ACCESS TO A LOCKING QUADRANT DAMPER...

APPROVED EQUIVALENT MANUFACTURER: PRICE, KRUEGER

Table with 3 columns: ABBR., SYMBOL, DESCRIPTION. Includes symbols for KEYED NOTES, EQUIPMENT DESIGNATION, EXISTING, TYPICAL, POINT OF CONNECTION, CUBIC FEET PER MINUTE, THERMOSTAT, DIAMETER, RIGID DUCTWORK, FLEXIBLE DUCTWORK, CEILING SUPPLY AIR OUTLET, CEILING RETURN OR EXHAUST AIR INLET, SIDEWALL SUPPLY AIR OUTLET, SIDEWALL RETURN OR EXHAUST AIR INLET, FIRE/SMOKE DAMPER, MANUAL VOLUME DAMPER.

HVAC GENERAL NOTES

- A. ALL DUCTS SHALL BE EXTERNALLY INSULATED, UNLESS OTHERWISE NOTED. B. ALL DUCT SEAMS SHALL BE SEALED AIRTIGHT WITH HIGH PRESSURE DUCT SEALER. C. PROVIDE ALL NECESSARY FITTINGS FOR RISES AND OFFSETS IN DUCTWORK AND PIPING REQUIRED FOR PROPER INSTALLATION...

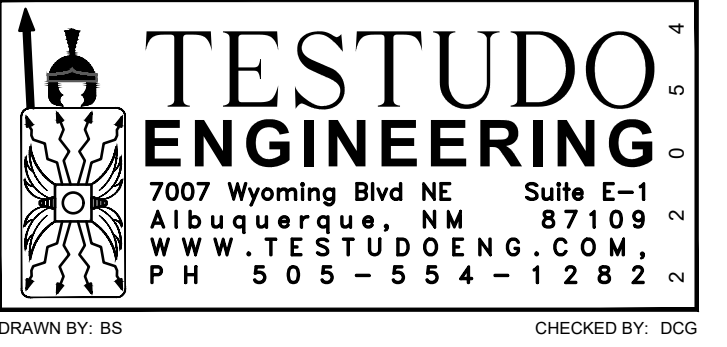


CONSULTANTS

NANCY LOPEZ ELEMENTARY SCHOOL 1600 E. TILDEN STREET ROSWELL, NEW MEXICO 88203 OWNER: ROSWELL INDEPENDENT SCHOOL DISTRICT

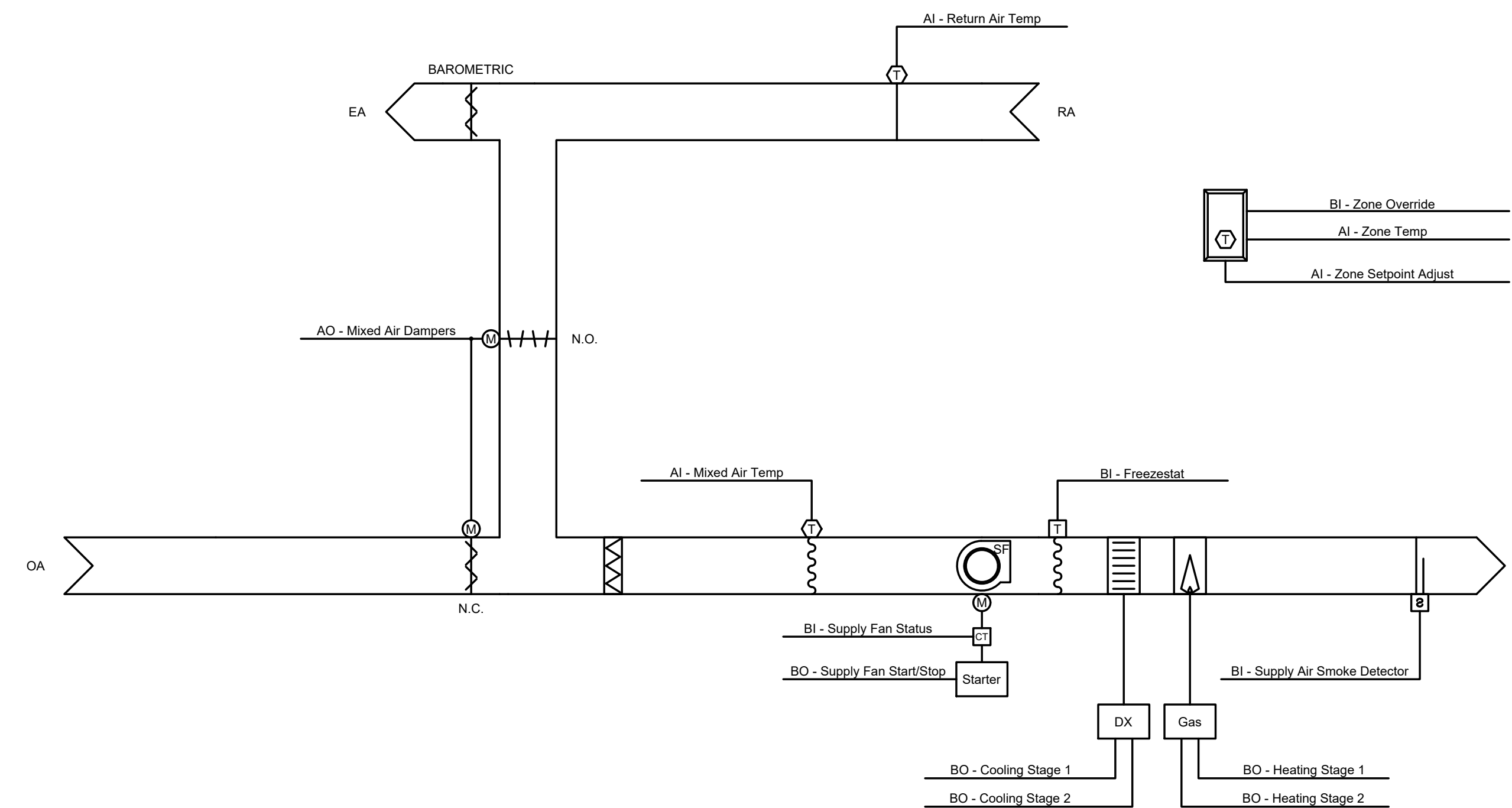
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PSFA JOB NO.: P19-010 PSFA ARCHITECTS 2023 COPYRIGHT © PSFA ARCHITECTS 2023 SHEET TITLE



MECHANICAL GENERAL NOTES, LEGEND AND SCHEDULES

SHEET NO.

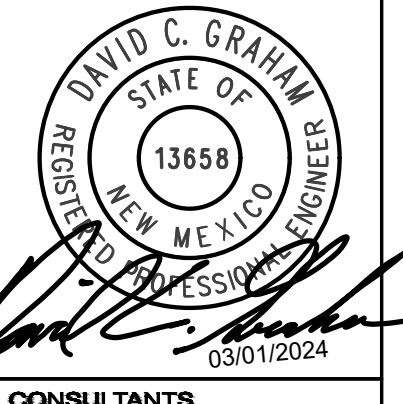


GENERAL CONTROL NOTES

1. THE ENTIRE CONTROL SYSTEM SHALL BE FULLY OPERATIONAL, INCLUDING COMPLETE INTEGRATION WITH BUILDING CONTROL SYSTEM (BACAN CONTROLS). APPROVAL BY THE ENGINEER IS REQUIRED PRIOR TO CONSTRUCTION. A CONTROLS SUBMITTAL PACKAGE SHALL BE PROVIDED FOR THE ENGINEER'S REVIEW.
2. CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS, WIRING, CONTACTORS, STARTERS, SWITCHES, CONTROL VALVES, THERMOSTATS, CONTROL PANELS, VFD'S, ETC., UNLESS NOTED TO BE PROVIDED BY OTHERS.
3. CONTROLS CONTRACTOR SHALL BE TOTALLY RESPONSIBLE TO MEET THE SEQUENCES OF CONTROL AND ALL RELATED CONTROLS REQUIREMENTS CALLED OUT ON THE PLANS AND ENTIRE SPECIFICATIONS PACKAGE.
4. CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING (LOW VOLTAGE); ELECTRICAL CONTRACTOR WILL PROVIDE POWER FOR CONTROLS TO MECHANICAL EQUIPMENT. ANY ADDITIONAL LINE VOLTAGE WIRING SHALL BE BY CONTROLS CONTRACTOR.
5. ALL CONTROL WIRING SHALL BE RUN IN CONDUIT WITH A MINIMUM CONDUIT SIZE OF 1/2".
6. CONTROLS CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR A COMPLETE AND OPERATIONAL SYSTEM WITH ANY AND ALL MATERIALS, EQUIPMENT, CONDUIT, ETC.



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CONSULTANTS

ROOFTOP UNIT CONTROL SCHEMATIC
NTS

Run Conditions - Scheduled:
The unit shall run according to a user definable time schedule in the following modes:

- Occupied Mode: The unit shall maintain
 - A 75°F (adj.) cooling setpoint
 - A 70°F (adj.) heating setpoint.
- Unoccupied Mode (night setback): The unit shall maintain
 - A 85°F (adj.) cooling setpoint.
 - A 55°F (adj.) heating setpoint.

Zone Setpoint Adjust:
The occupant shall be able to adjust the zone temperature heating and cooling setpoints at the zone controller.

Zone Unoccupied Override:
A timed local override control shall allow an occupant to override the schedule and place the unit into an occupied mode for a period of time. At the expiration of this time, control of the unit shall automatically return to the schedule.

Freeze Protection:
The unit shall shut down and generate an alarm on the unit's controller (not integrated) upon receiving a freeze/estat status.

Supply Air Smoke Detection:
The unit shall shut down and generate an alarm on the unit's controller (not integrated) upon receiving a supply air smoke detector status.

Supply Fan:
The supply fan shall run anytime the unit is commanded to run, unless shutdown on safeties. To prevent short cycling, the supply fan shall during all occupied hours.

Cooling Stages:
The zone controller shall measure the zone temperature. The unit's controller shall stage the cooling to maintain its cooling setpoint. To prevent short cycling, there shall be a delay between stages, and each stage shall have a minimum runtime.

The unit controller shall control when cooling is enabled. The cooling shall be enabled whenever:

- Outside air temperature is greater than 60°F (adj.).
- AND the economizer is disabled or fully open.
- AND the zone temperature is above cooling setpoint.
- AND the supply fan status is on.
- AND the heating is not active.

Gas Heating Stages:
The zone controller shall measure the zone temperature. The unit's controller shall stage the heating to maintain its heating setpoint. To prevent short cycling, there shall be a delay between stages, and each stage shall have a minimum runtime.

The unit's controller shall control when heating is enabled. The heating shall be enabled whenever:

- Outside air temperature is less than 65°F (adj.).
- AND the zone temperature is below heating setpoint.
- AND the supply fan status is on.
- AND the cooling is not active.

Economizer:
The zone controller shall measure the zone temperature. The unit's controller shall modulate the economizer dampers in sequence to maintain a setpoint 2°F less than the zone cooling setpoint. The outside air dampers shall maintain a minimum position open whenever occupied. This minimum position shall be determined per unit by the required outside air rate.

The unit's controller shall control the economizer. The economizer shall be enabled whenever:

- Outside air temperature is less than 65°F (adj.).
- AND the outside air temperature is less than the return air temperature.
- AND the supply fan status is on.

The unit's controller shall control the economizer. The economizer shall close whenever:

- Mixed air temperature drops from 45°F to 40°F (adj.).
- OR on loss of supply fan status.
- OR the freeze/estat is on.

The unit's controller shall control all of the unit's dampers. The outside and exhaust air dampers shall close and the return air damper shall open when the unit is off. If Optimal Start Up is available, the mixed air damper shall operate as described in the occupied mode except that the outside air damper shall modulate to fully closed.

Minimum Outside Air Ventilation - Fixed Airflow:
The outside air dampers shall maintain a minimum position during building occupied hours and be closed during unoccupied hours. This minimum positions shall be determined per unit by the required outside air rate.

Mixed Air Temperature:
The unit's controller shall monitor the mixed air temperature and use as required for economizer control (if present) or preheating control (if present).

Return Air Temperature:
The controller shall monitor the return air temperature and use as required for economizer control (if present).

Alarms:
Per the requirements of the owner-preferred building control system, no alarms will be provided for the unit.

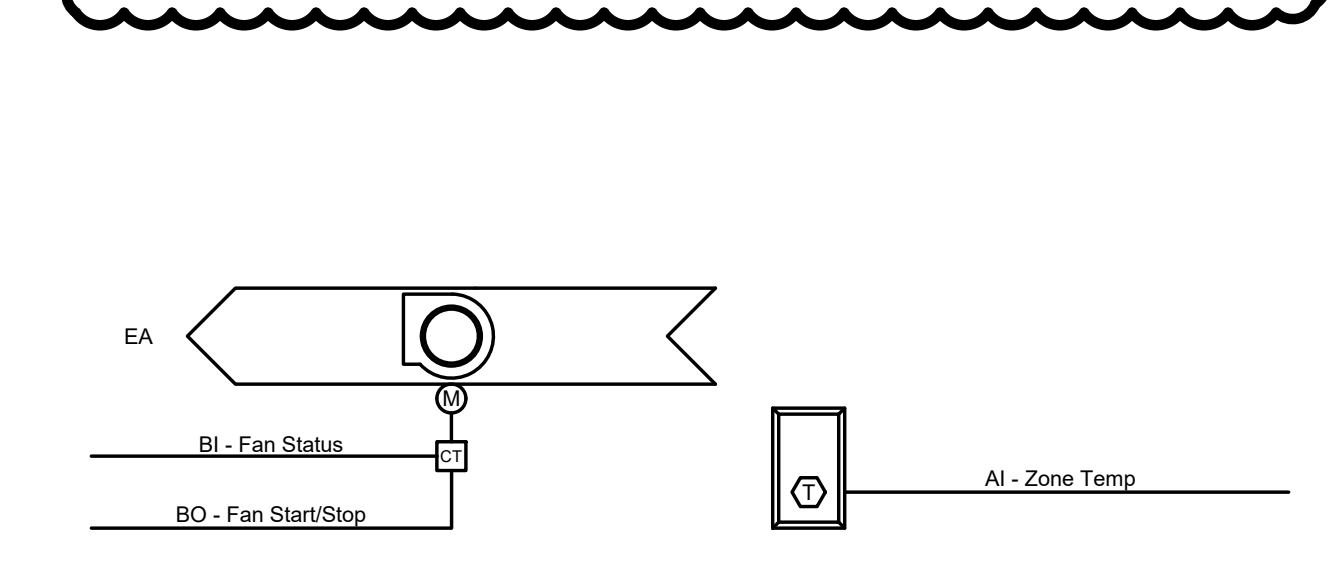
OUTSIDE AIR CONDITIONS CONTROL SCHEMATIC
NTS

Outside Air Conditions:
The unit's controller shall monitor the outside air temperature and humidity and calculate the outside air enthalpy on a continual basis. These values do not need to be made available to the system outside of the unit.

If an outside air temperature sensor cannot be read, a default value of 65°F will be used.

If an outside air humidity sensor cannot be read, a default value of 50% will be used.

Outside Air Temperature History:
The unit's controller shall monitor and record the high and low temperature readings for the outside air. These readings shall be recorded on a daily, month-to-date, and year-to-date basis and shall be stored locally on the unit.



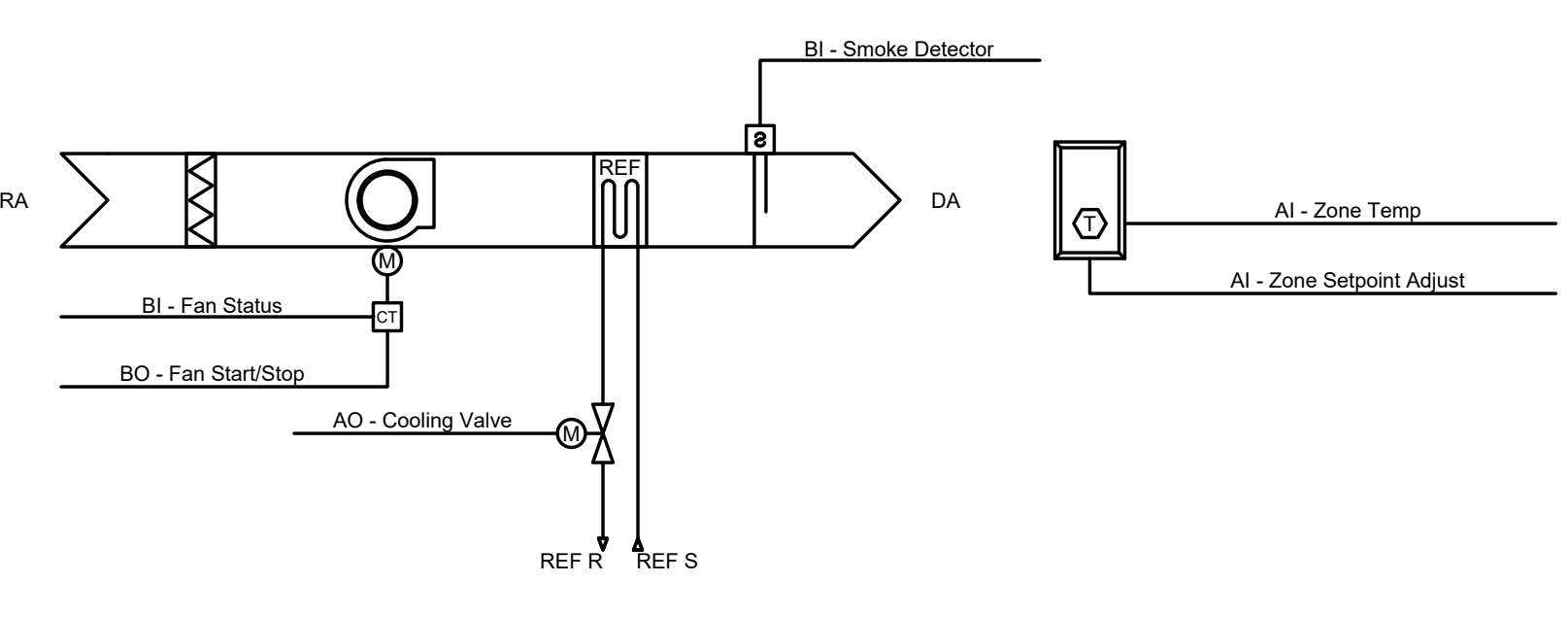
EXHAUST FAN (COOLING) CONTROL SCHEMATIC
NTS

Run Conditions - Scheduled:
The zone controller shall maintain an adjustable zone temperature cooling setpoint of 78°F.

Fan:
The fan shall run anytime the zone temperature rises above cooling setpoint, unless shutdown on safeties.

Fan Status:
The zone controller shall monitor the fan status.

Alarms:
Per the requirements of the owner-preferred building control system, no alarms will be provided for the unit.



COOLING-ONLY FAN COIL CONTROL SCHEMATIC
NTS

Run Conditions - Scheduled:
Occupied Mode: The unit shall maintain an adjustable 70°F cooling setpoint.

Zone Setpoint Adjust:
The fan shall be able to adjust the zone temperature cooling setpoints at the zone setpoint.

Fan:
The fan shall run anytime the unit is commanded to run, unless shutdown on safeties.

Refrigerant Cooling Coil Valve:
The zone controller shall measure the zone temperature. The unit's controller shall modulate the refrigerant cooling coil valve to maintain its cooling setpoint.

The unit shall control when cooling is enabled. The cooling shall be enabled whenever:

- The zone temperature is above cooling setpoint.
- AND the fan is on.

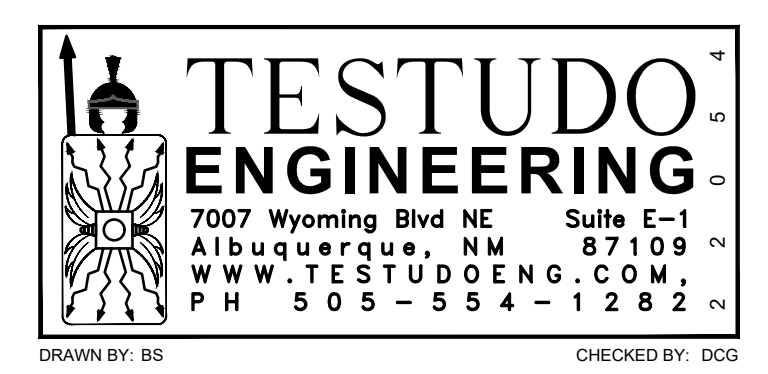
NANCY LOPEZ
ELEMENTARY
SCHOOL

1600 E. TILDEN
STREET
ROSWELL,
NEW MEXICO
88203

OWNER:
ROSWELL
INDEPENDENT
SCHOOL
DISTRICT

MARK	DATE	DESCRIPTION
1	03/01/2024	ADDENDUM #2
CS	11/22/2023	PERMIT

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MECHANICAL
CONTROLS

SHEET NO.

PLUMBING EQUIPMENT SCHEDULE

Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists various plumbing fixtures and equipment like backflow preventers, water heaters, expansion tanks, and sinks with their specifications.

PLUMBING GENERAL NOTES

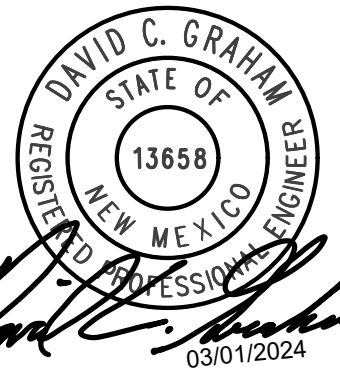
- A. ALL PIPING SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING, WHERE CONCEALMENT IS NOT POSSIBLE, SHALL BE INSTALLED AND PAINTED AS DIRECTED BY THE ARCHITECT.
B. ALL PIPING SHALL BE INSULATED. SEE SPECIFICATIONS.
C. ALL BRANCHES SHALL BE VALVED AND ALL VALVES SHALL HAVE UNIONS ADJACENT. ACCESS PANELS AND DOORS SHALL BE FURNISHED TO GENERAL CONTRACTOR FOR INSTALLATION AND ACCESS TO VALVES WHERE REQUIRED. LOCATE ADDITIONAL VALVES AS SHOWN ON DRAWINGS. SEE SPECIFICATIONS FOR ACCESS DOOR REQUIREMENTS.
D. ALL PIPING SHALL PITCH TO DRAIN, AND CONTRACTOR SHALL PROVIDE VALVING FOR SYSTEM DRAINAGE. CONTRACTOR SHALL DELIVER A MARKED-UP SET OF PLANS TO THE OWNER (PRIOR TO FINAL PAYMENT) SHOWING ALL BRANCH VALVES AND ALL DRAINAGE POINTS.
E. CARE SHALL BE TAKEN TO AVOID MECHANICAL DUCTWORK, ELECTRICAL EQUIPMENT AND AIR HANDLING EQUIPMENT ABOVE CEILING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ROUTING OF PIPING WITH CEILING CONTRACTOR AND SHEET METAL CONTRACTOR. RELOCATION OF PIPING AS A RESULT OF POOR COORDINATION BY THIS CONTRACTOR SHALL BE AT HIS OWN EXPENSE.
F. NO WATER PIPING SHALL BE LOCATED IN OUTSIDE WALLS, UNLESS SHOWN TO BE AND THEN PIPING TO BE INSULATED AND LOCATED AS CLOSE AS POSSIBLE TO INSIDE OF WALL CAVITY WITH ADDITIONAL INSULATION BETWEEN PIPING AND EXTERIOR OF WALL.
G. WRITTEN PRIOR APPROVAL, REQUIRED FOR ALL PROPOSED SUBSTITUTIONS OF EQUIPMENT AND MATERIALS. RECEIVED BY ENGINEER, 10 DAYS PRIOR TO BID DATE OF PROJECT TO ALLOW ADEQUATE TIME FOR REVIEW AND RESPONSE.
H. ALL TRENCHING AND BACKFILL FOR PIPING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
I. ALL SEWER PIPING BELOW FLOOR SLAB (BELOW GRADE) SHALL BE STANDARD WEIGHT HUB AND SPIGOT CAST IRON.
J. ALL PIPE PENETRATIONS THRU FIRE-RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED WITH CODE-APPROVED FIRE BARRIER MATERIALS.
K. SECURE ALL PIPING TO WALLS FOR A RIGID INSTALLATION WITH UNISTRUT BRACKETS AND GASKETED PIPE CLAMPS.

SYMBOL LEGEND

Table with 3 columns: ABBR., SYMBOL, DESCRIPTION. Lists symbols for keyed notes, equipment designations, existing items, typical items, points of connection, cubic feet per minute, thermostats, diameters, rigid ductwork, flexible ductwork, ceiling supply air outlets, ceiling return or exhaust air inlets, sidewall supply air outlets, sidewall return or exhaust air inlets, fire/smoke dampers, manual volume dampers, floor cleanouts, wall cleanouts, vent through roof, riser down, riser up, drop, riser up, cold water line, hot water line, vent piping, sanitary sewer or waste line, gas piping, condensate drain line, flanged connection, ball valve, and union.



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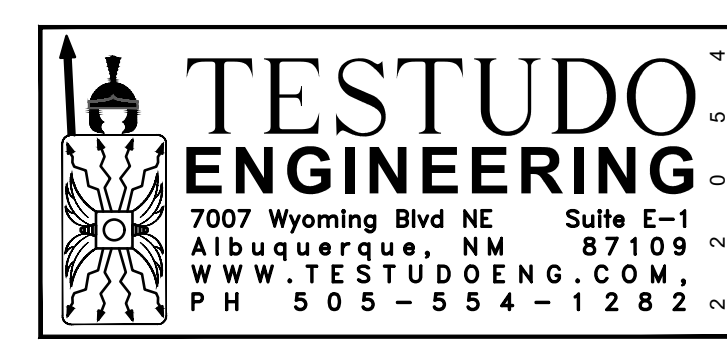
OWNER: ROSWELL INDEPENDENT SCHOOL DISTRICT

Table with 3 columns: MARK, DATE, DESCRIPTION. Shows revision 1 on 03/01/2024 for ADDENDUM #2.

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PLUMBING GENERAL NOTES, LEGEND AND SCHEDULES

SHEET NO.



DRAWN BY: BS CHECKED BY: DCG