Architectural Alliance,Inc.

October 2, 2024

RESPONSE TO CONTRACTOR QUESTIONS
FROM ARCHITECTURAL ALLIANCE, INC
FOR THE PROPOSED NEW TRANSPORTATION CENTER
BEAUMONT INDEPENDENT SCHOOL DISTRICT.

The following architect and consultant responses to questions submitted by contractors via the school district's website in compliance with the bidding process for the construction of the New Transportation Center.

1. *Can the AWI certification requirement be waived for this project for millwork/casework contractors?* **Yes, the AWI certification requirements for casework for this project can be waived; however, it is the general contractor and millwork subcontractor's obligation to perform construction in compliance with generally accepted standards for commercial work including materials and hardware and other elements noted in the specifications.**

2. *Is there a specification for the overhead coilin doors?* **Yes, reference attached specification for overhead coiling windstorm motor operated doors.**

3. *For the Counter Coiling Door type P, the elevation shows a height of 4'-11" but the door schedule shows a height of 4'6".* Also, there isn't a specific width identified in the door schedule. Please advise what the dimensions of this door type will be. **Clarify dimension on the elevation was not pulled to the correct edge. The coiling door opening will be 6'-0" wide by 4'-11 tall.**

4. *Is the school district exempt from having to pay for a city building permit?* **Projects for the Beaumont Independent School District are not waived from paying the City of Beaumont Building Permits and Inspection Fees, only projects for the City of Beaumont receive these waivers.**

5. *What sealer do you want in the maintenance shop? I did not see one specified.* **Reference attached Section 093300 for Concrete Slab Surface Sealer requirements.**

6. *Sheet F103 class for "CG-1" corner guards. None were found on the plans, please advise if any are required on this project and locations.* **Corner Guards are indicated on the floor plan but possibly too light to read. Contractors must include furnishing/installing 10 corner guards total for the administration area drywall situations plus 2 spare guards for future damage replacement (12 total).**

7. *Regarding request for Section 019113 Commissioning:* **Omit any reference to commission as the district will not go through commission based on the scale and complexity of the project.**

8. *What sealer do you want in the maintenance shop? I did not see one specified.* **Reference attached Section 093300 Concrete Slab Surface Sealer.**

9. Clarify how general contractors are to handle delays in delivery of materials, extension request or is the contractor obligated to include potential delays in material delivery in the proposal. **Each General Contractor submitting proposals for services for this project is responsible to abide by the number of days stated on the proposal form with not option to extend for material delays as this much be incorporated into the proposal number of days submitted to the district.**

Architectural Alliance, Inc.

J. Rob Clark, AIA

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Beaumont, Texas 77701	www.architectall.com	J. Rob Clark, AIA

SECTION 08330
MOTORIZED OPERATED COILING OVERHEAD WINDSTORM RATED DOOR
DOWNLOADED AS ADDENDUM NO 1 ON 10-2-2024

PART 1 - GENERAL:

1.1 Related Documents: Drawings and general provision of Contract including General Conditions, Supplementary General Conditions and other Project Manual Sections apply to the work of this section.

1.2 Quality Assurance:
- A. Comply with specified product standards, features and performance as outlined herein.
- B. All installation to be by qualified workmen certified by the manufacturer to complete this installation.
- C. **Comply with all required UL test for door, frame and operational components meeting required rating specified.**
  1. **Comply with International Building Code**
  2. **Comply with Texas Department of Insurance Windstorm Certification**

1.3 Submittals:
- A. Provide shop drawings, samples, color chips, etc. as requested
- B. Shop Drawings to include all information to perform work of this section
- C. Provide copies of Warranty at completion of project

1.4 Delivery Storage and Handling:
- A. Protect products to prevent damage during shipping and job site handling.
- B. Protect installed of frames and coiling products from work performed by other trades.

PART 2 - PRODUCTS:

2.1 Coiling Three Hour UL Fire Door:
- A. Type: Motorized with manual over-ride coiling TDI Certified Windstorm door, frame, motor, and wall controller with option remote operator (opening size and type as indicated on drawings)
  1. **Series 620, Stormtite, as manufactured by Overhead Door Corporation for TDI 136 mph wind speed**.

- B. Provide the following items:
  1. Standard offering mechanical floor re-settable hoist
  2. Motorized and optional Chain hoist override.
  3. Face of wall installation to fit masonry opening Type “Z” anchor to
  4. Insulated steel slats designed/tested for TDI Windstorm .
  5. Integral fusible link and connection to alarm system relay.
  6. Owner to select from manufacturer’s standard color line of pre-finishes. Galvanized with powder coating.

- C. Manufacturer: Overhead Door Company, Series 631manually operated coiling insulated slat prefinished designed for 136 mph TDI Windstorm Requirements.

PART 3 - EXECUTION:

3.1 Preparation:

A. Take field dimensions and examine conditions of substrates, supports and other conditions under which this work is to be performed.
B. Coordinate with contractor for rough-opening and with steel building manufacturer for required back-up steel structure.
C. Coordinate fire alarm requirements between alarm supplier and coiling fire door supplier including location of any connection points.

3.2 Installation:
A. Strictly comply with manufacturer's installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
B. Instruct Owner's personnel in proper operation procedures and maintenance schedule.

3.3 Adjusting and Cleaning:
A. Test coiling doors and security grills for proper operation and adjust as necessary to provide proper operation without binding or distortion.
B. Tough-up damaged coatings and finishes and repair minor damage. Clean exposed surfaces using non-abrasive materials and methods recommended by manufacturer of material or product being cleaned.

END OF SECTION

SECTION 093300 – CONCRETE SLAB SURFACE SEALER MAINTENANCE BAY AND SUPPORT SPACES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Material, preparation for application, application and protection of surface from construction overspray and spillage.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at [**Project site**].

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: Submit product submittal data sheets and application guidelines.

1.4 INFORMATIONAL SUBMITTALS

A. Sample warranty.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved for this sealer application and protection of adjacent surfaces.

1.6 WARRANTY

1. Manufacturer's Special Warranty: Manufacturer agrees to repair or replace waterproofing that fails in materials or workmanship within specified warranty period. Warranty Period: Manufacturer’s limited warranty.

PART 2 - PRODUCTS

2.1 LOW VOC, WATER BASED REPELLENT & STAIN INHIBITOR FOR DENSE CONCRETE

A. PS100 Fluorinated Water, Oil & Salt Repellent WB Penetrating Sealer,

B. Manufactured by Concrete Sealers USA. Note: This is an economical approach to concrete protection and is not the same as expensive troweled finish epoxy or other protective concrete coating.

2.2 PROTECTION OF CONCRETE SURFACE

A. The General Contractor will protect all concrete surfaces in the garage area, storage rooms, tire repair, mechanical rooms, parts storage and mezzanine areas from construction staining and paint spillage or overspray until such time the slab is ready for the application of this sealer product.

B. The Owner, Contractor, Applicator and Architect must inspect the concrete to receive the sealer noting any areas of staining that must be cleaned prior to application.

PART 3 - EXECUTION

3.1 PREPARATION

A. The Contractor must carefully follow the manufacturer’s guidelines for the cleaning, preparation and protection of concrete surfaces to receive the specified sealer.

B. Contractor must clean all oil stains, grease or other element from concrete surface before starting application of the sealer material.

C. Mask off adjoining surfaces (walls, door, door frames, equipment, structure, etc.) not receiving waterproofing to prevent spillage and overspray affecting other construction.

3.2 INSTALLATION OF WATERPROOFING (2 COAT APPLICATION)

A. Follow the manufacturer’s guidelines for application rate in **two applications minimum of 10 days between application**. Restrict any traffic for the during of the period of application and curing until the floor is covered with protective sheeting.

3.3 PROTECTION

A. Do not permit foot or vehicular traffic on unprotected sealed concrete until project is completed and ready for final inspection.

END OF SECTION 071416

ADDENDUM NO. 1

September 23, 2024

Project: Beaumont ISD – Bus Parking and Maintenance Facility

Prepared by: Salas O'Brien Engineers
10930 W. Sam Houston Parkway N., Suite 900
Houston, Texas 77064

SOBE Project No.: 2022-01042

Prepared For: Prospective Proposers

STATE OF TEXAS
BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
09/23/24

PART A: NOTICE TO PROPOSERS

1. Receipt of this Addendum shall be acknowledged on the Proposal Form. Failure to do so may subject Proposers to disqualification. Each Proposer shall make necessary adjustments and submit his proposal with full knowledge of all modifications, clarifications, and supplemental data included therein.

2. This Addendum forms part of the Contract Documents and shall be incorporated integrally therewith. Where provisions of the following supplemental data differ from those of previously issued documents, this Addendum shall govern.

PART B: CHANGES TO PRIOR ADDENDUM

"Any changes to prior issued addendum materials are listed here."

1. None

PART C: CHANGES TO THE PROJECT MANUAL

"Any changes to specifications are listed here."

1. None

PART D: CHANGES TO THE DRAWINGS

1. Sheet M101 – "MECHANICAL FLOOR PLAN".
   a. Hallway 119, Route 6" medium pressure ductwork, branch of 10-12 ductwork plan west of conference 125. And plan south of vav-1-1. Elbow plan north then elbow plan west toward Mechanical 118.
2. Sheet M201 – "MECHANICAL ENLARGED PLAN".
   a. Detail #3 Add new variable volume terminal box VAV-10-1 with associated ductwork supply air grille and t-stat.
   b. Detail #3 Add new electric unit heater EUH-2 with pendant t-stat.
   c. Replace sheet in its entirety.
3. Sheet M500 – "MECHANICAL SCHEDULES".
   a. Unit heater-electric schedule, EHU-1 revise CFM to 430 and change model to EUH. Add EHU-2.
   b. Air handling unit schedule, AHU-1 Revise supply air CFM to 7,095.
   c. Variable volume terminal box schedule, add VAV-1-10.
   d. Variable volume terminal box schedule, Revise VAV-1-9 inlet diameters size to 6".
   e. Replace sheet in its entirety.
4. Sheet E300 – ELECTRICAL POEWR FLOOR PLAN
   a. Provide circuit, conduit and all associated wiring for EUH-2 located in Mechanical 118.

b. Add general note one to read ”ELECTRICAL CONTRACTOR SHALL PROVIDE A 120-VOLT CONNECTION TO ALL VAV UNITS VIA LOW VOLTAGE TRANSFORMER PROVIDED WITH UNIT. PROVIDE 2#12, 1#12G., 3/4"C. TO NEAREST CONVENIENCE RECEPTACLE, NOT TO EXCEED 15-AMPS. COORDINATE EXACT LOCATION WITH DIVISION 23 AND MAKE FINAL CONNECTION.”

5. Sheet E400 – ELECTRICAL ONE-LINE DIAGRAM”.
   a. Revise feeder from service entrance to MDP to include 1#1/0G.
6. Sheet E500 – ELECTRICAL PANEL SCHEDULES
   a. Panel LC, provide GFCI circuit breaker for Welder, Tire Mounting, and Tire Balancing, quantity of 4.
   b. Panel ELLA, provide permanent “LOCK ON” device for the following circuits: ELLA-3, ELLA-5, ELLA-15.
   c. Panel ELLA, delete GFCI for circuits ELLA-6, ELLA-8,10.
   d. Panel EQLA, add 50A breaker for CKT 41,43 (EUH-2)
7. Sheet E501 – ELECTRICAL PANEL SCHEDULES
   a. Panel LA, provide GFCI circuit breaker for circuit LA-47.
   b. Panel LB, provide GFCI circuit breaker for circuits LB-21,33,35,37,39.

PART E: RE-ISSUED DRAWING SHEET *(24” x 36”)*

“Insert the following sheets and omit the previously issued sheets of the same number.”

1. Sheet M201 – “MECHANICAL ENLARGED PLAN”.
2. Sheet M500 – “MECHANICAL SCHEDULES”.
3. Sheet E300 – “ELECTRICAL POWER FLOOR PLAN”
4. Sheet E500 – “ELECTRICAL PANEL SCHEDULES”

PART F: NEW DRAWINGS SHEETS *(24” x 36”)*

1. None

PART G: QUESTIONS/CLARIFICATIONS

1. None

PART H: ATTACHMENTS

1. None

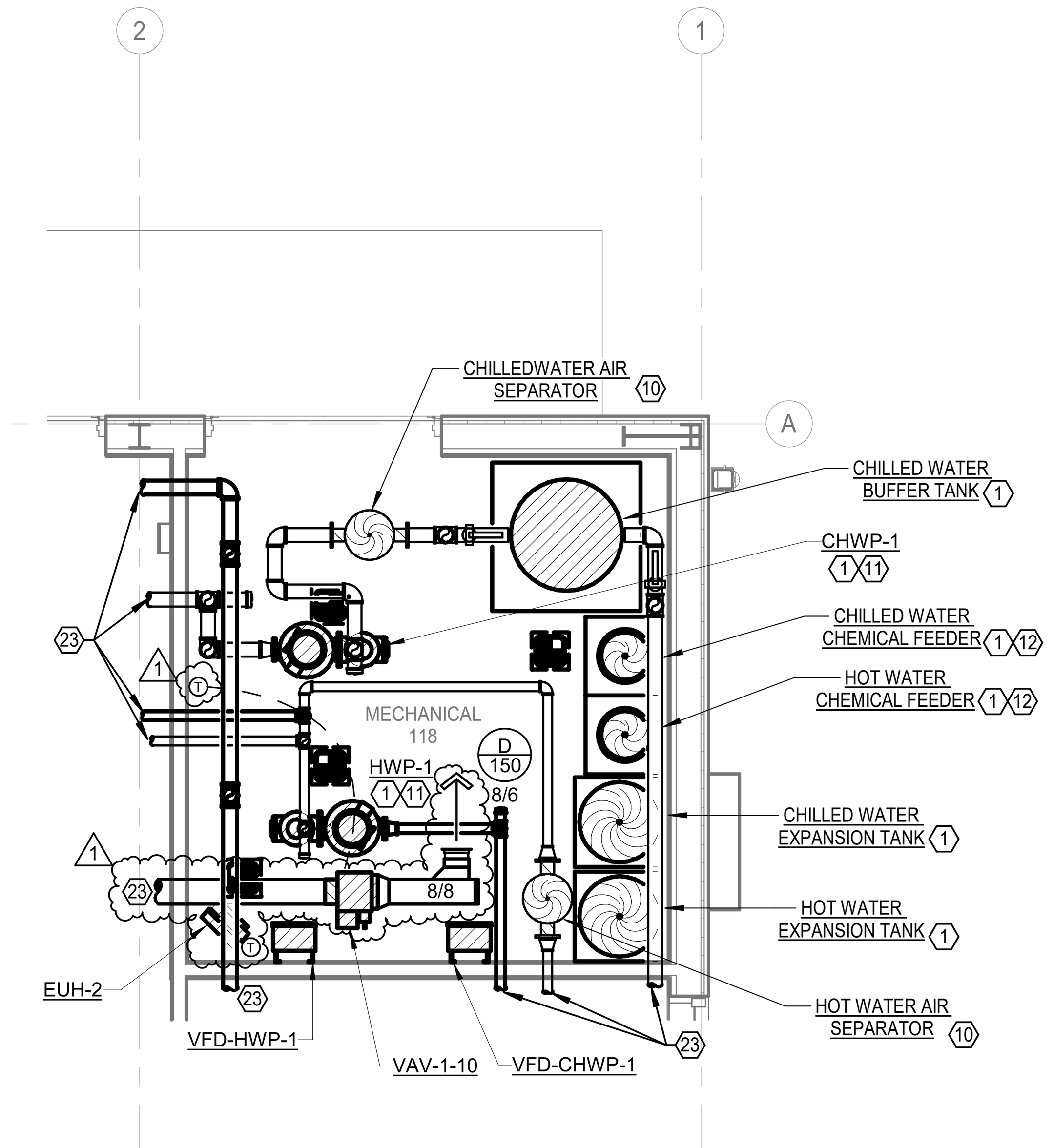
END OF ADDENDUM 1

MECHANICAL GENERAL NOTES:

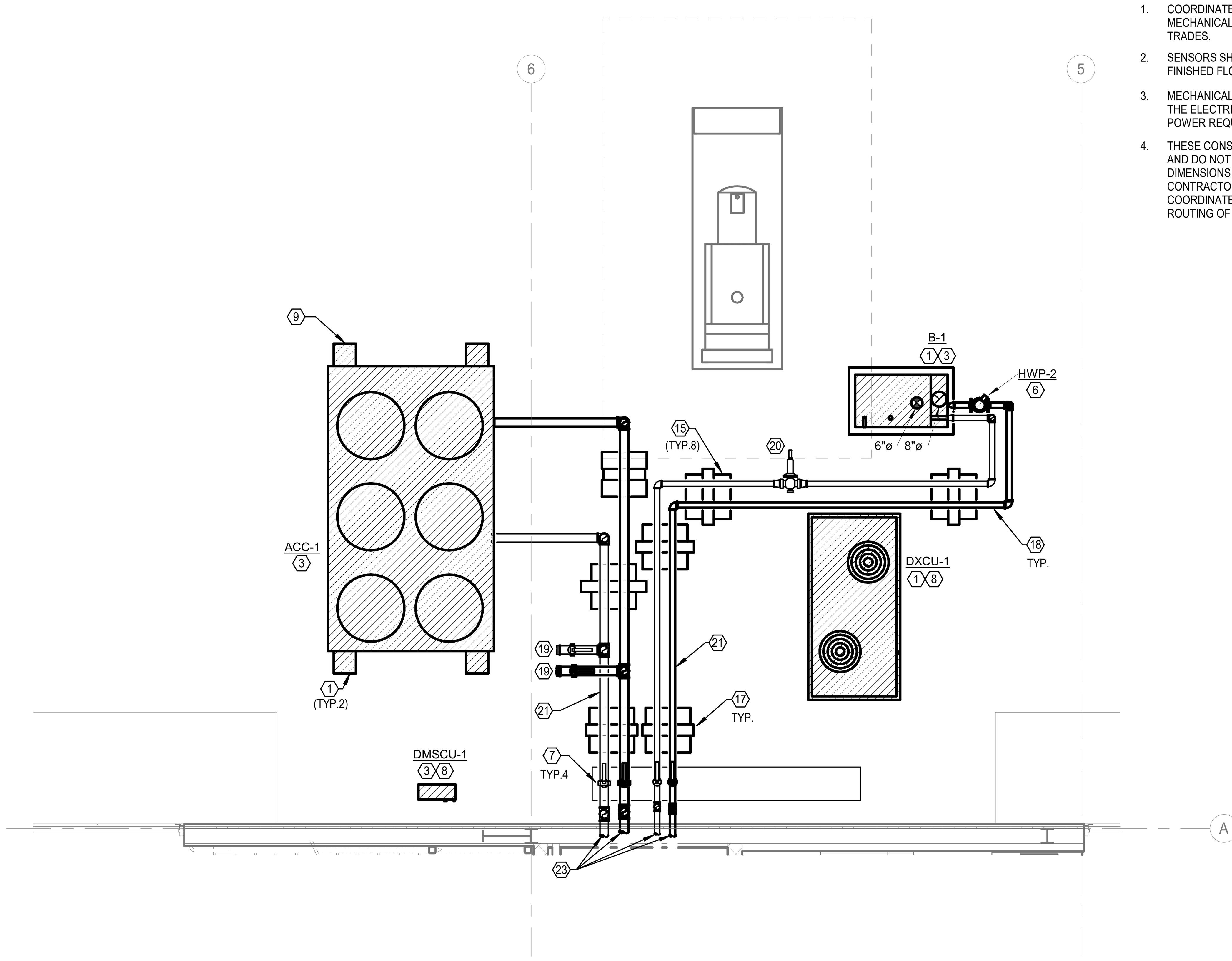
1. COORDINATE IN THE FIELD THE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH CONTRACTOR AND ALL TRADES.
2. SENSORS SHALL BE MOUNTED AT +48" AFF (ABOVE FINISHED FLOOR). UNLESS OTHERWISE NOTED.
3. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL POWER REQUIREMENTS.
4. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR HVAC SYSTEMS.

MECHANICAL KEYED NOTES

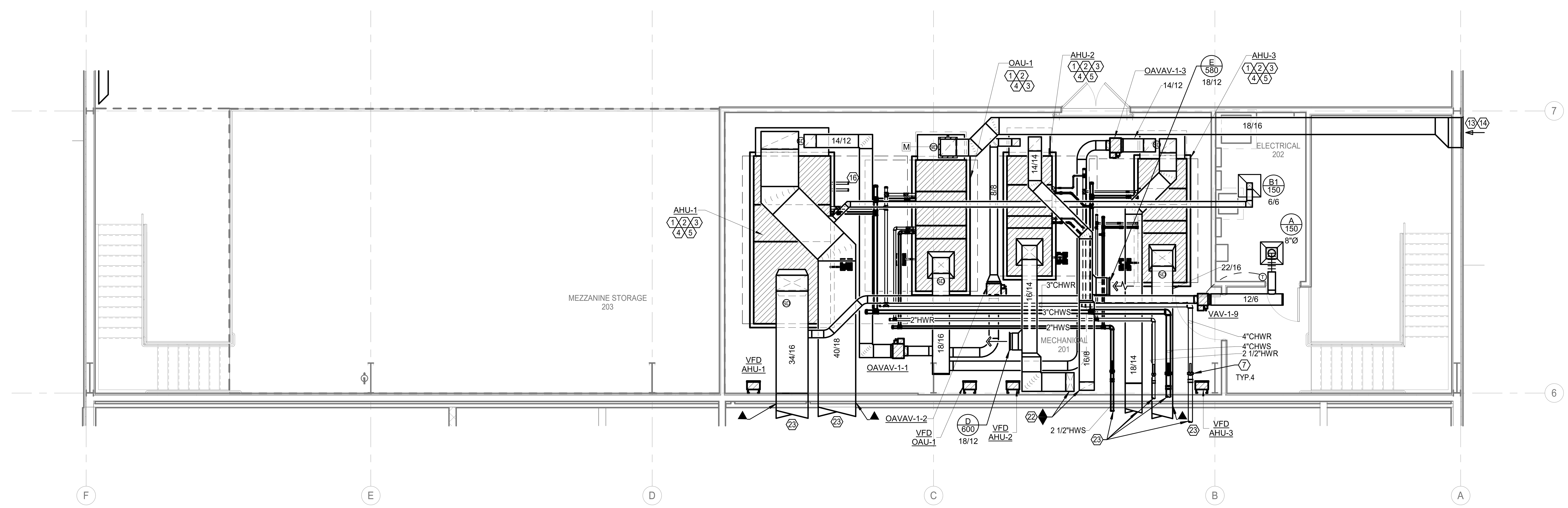
1 PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD.
2 ROUTE FULL SIZE CONDENSATE DRAIN PIPING TO FLOOR SINK (SEE PLUMBING DRAWING FOR EXACT LOCATION). INSTALL CONDENSATE TRAP AS RECOMMENDED PER MANUFACTURER.
3 VERIFY SERVICE CLEARANCES FOR AIR FILTER, FAN SHAFT AND COIL REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
4 REFER TO DETAILS FOR AHU COIL PIPING.
5 PROVIDE FULL SIZE PLENUM AT RETURN AIR INLET FOR AHU AS SHOWN AND INSTALL TEMPERATURE SENSOR.
6 CIRCULATOR PUMP PROVIDED BY BOILER MANUFACTURER.
7 PROVIDE ISOLATION VALVE.
8 ROUTE REFRIGERANT PIPING TO ASSOCIATED INDOOR UNIT.
9 PROVIDE 12"X12" CONCRETE RUNNERS TO SPAN LENGTH OF AIR COOLED CHILLER.
10 RE: 1/M400 FOR SUPPORT AT AIR SEPARATOR.
11 VERIFY SERVICE AND AIRFLOW CLEARANCE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
12 RE: 4/M400 FOR CHEMICAL FEEDER TANK SUPPORT.
13 PROVIDE 32"X 20" RUSKIN MODEL EME520MD WIND-DRIVEN RAIN RESISTANT OUTSIDE AIR STATIONARY LOUVER OR APPROVED EQUAL WITH MINIMUM FREE AREA OF 1.78 SQ. FT. PROVIDE WITH BIRD SCREEN AND PAINT TO MATCH WALL OR AS SPECIFIED BY ARCHITECT. COORDINATE FINAL LOCATION WITH ARCHITECT.
14 PROVIDE DUCTWORK AT FULL SIZE OF LOUVER.
15 PROVIDE PIPE STAND FOR SUPPORT OF PIPE RE: 4/M401 FOR DETAILS.
16 REFRIGERANT LINES TO ASSOCIATED AIR COOLED CONDENSING UNIT ON GROUND.
17 RE: 1/M301 FOR CHILLED WATER PIPE SIZES ON PIPING DIAGRAM.
18 RE: 1/M302 FOR HOT WATER PIPE SIZES ON PIPING DIAGRAM.
19 PROVIDE ISOLATION VALVE AND BLIND FLANGE FOR TEMPORARY CONNECTION.
20 PROVIDE WITH 3-WAY MIXING VALVE AT LOCATION SHOWN.
21 BOTTOM OF ALL PIPING IN THE CHILLER YARD TO BE MINIMUM 7' 0" ABOVE GRADE.
22 ROUTE DUCT DOWN THROUGH MEZZANINE FLOORAT SIZE INDICATED AND PROVIDE FIRE DAMPER. RE:1/M101 FOR CONTINUATION.
23 RE: 1/M101 FOR CONTINUATION.



3 MECHANICAL ENLARGED PLAN - LEVEL 1 - MECHANICAL ROOM
Scale: 1/4" = 1'-0"



2 MECHANICAL ENLARGED PLAN - MECHANICAL YARD AND CENTRAL PLANT
Scale: 1/4" = 1'-0"



1 MECHANICAL PLAN - MEZZANINE
Scale: 3/16" = 1'-0"

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STATE OF TEXAS
BRADLEY KALMANS
80219
LICENSED
PROFESSIONAL ENGINEER
09.23.24

BUS PARKING AND MAINTENANCE FACILITY

Beaumont Independent School District
2445 Concord Road, Beaumont, Texas 77703

NO.	ISSUE	DATE
	Schematic Design	03/06/2024
	Design Develepment	05/20/2024
	Owner's Final Review	08/02/2024
	Bids and Construction	08/21/2024
1	ADDENDUM #2	09/23/2024

Salas O'Brien
Houston
10930 W. Sam Houston Pkwy North, Suite 900
Houston, TX 77064
Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2022-01042-00

SHEET NUMBER:
M201

SHEET NAME:
MECHANICAL ENLARGED PLAN

SCALE:
As indicated

PROJECT NUMBER:
23042

9/23/2024 11:17:53 AM Author: AA

VARIABLE VOLUME TERMINAL BOX

MARK	MAXIMUM CFM	MINIMUM CFM	INLET DIAMETER SIZE (IN.)	HOT WATER COIL GPM	HOT WATER COIL CONNECTING PIPE SIZE	REMARKS
OAVAV-1-1	825	260	10	0.0	0"	-
OAVAV-1-2	190	100	6	0.0	0"	-
OAVAV-1-3	945	260	10	0.0	0"	-
VAV-1-1	840	260	10	1.8	3/4"	-
VAV-1-2	710	260	10	1.5	3/4"	-
VAV-1-3	745	260	10	1.6	3/4"	-
VAV-1-4	740	260	10	1.6	3/4"	-
VAV-1-5	645	180	8	1.4	3/4"	-
VAV-1-6	715	180	10	1.6	3/4"	-
VAV-1-7	1,025	360	10	2.2	3/4"	-
VAV-1-8	1,375	360	12	3.0	3/4"	-
VAV-1-9	150	150	6	0.0	0"	-
VAV-1-10	150	150	6	0.0	0"	-

1

GENERAL NOTES:
1. MAXIMUM STATIC PRESSURE DROP OF AIR THROUGH THE TERMINAL BOX SHALL BE 0.2" ESP.
2. MAXIMUM VELOCITY THROUGH DUCT INLET SHALL BE 2,000 FPM.
3. MAXIMUM STATIC PRESSURE DROP THROUGH HEATER COIL SHALL BE 0.25" ESP.
4. MAXIMUM STATIC PRESSURE DROP OF WATER THROUGH HEATER COIL SHALL BE 10' W.G.
5. BTUH REQUIRED FOR HOT WATER HEATING IS HEATING GPM MULTIPLIED BY 10,000.
6. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. REFER TO MANUFACTURER FOR MORE DETAILS.
7. UNITS TO BE MOUNTED BETWEEN BEAMS AND 18" MAXIMUM ABOVE CEILING. AVOID MOUNTING OVER LIGHTS WHEREVER POSSIBLE.
8. REFER TO PIPING AT HOT WATER COIL DETAILS. PROVIDE WITH 2-WAY CONTROL VALVE UNLESS OTHERWISE SCHEDULED.

REMARKS:
1. N/A

AIR COOLED CONDENSING UNIT

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER2	CURRENT CHAR. V	P	F	RELATED UNIT MARK	REMARKS
DXCU-1	240,524	95	11.0/-	480	3	60	AHU-1	1,2,3,4,5

GENERAL NOTES:
A. MINIMUM RECOMMENDEDLD CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH LOW AMBIENT CONTROL DOWN TO 20°F.
2. PROVIDE WITH DISCONNECT SWITCH.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. PROVIDE WITH VARIABLE CAPACITY COMPRESSOR.
5. UNIT IS PART OF A VARIABLE AIR VOLUME SYSTEM AND SHALL BE PROVIDED WITH A MINIMUM OF ONE CIRCUIT WITH A FULLY MODULATING DIGITAL SCROLL OR VARIABLE SPEED SCROLL TYPE COMPRESSOR AS SPECIFIED. UNITS SHALL BE CAPABLE OF MODULATION FROM 10-100% OF ITS CAPACITY AND ALLOW FOR AHU AIRFLOW TURN DOWN TO 30% OF FULL FLOW.

AIR HANDLING UNIT

MARK	FAN							COOLING							HEATING					PIPE SIZE TO COIL (IN.)		REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C)	HORSE POWER	CURRENT V	PH	F	AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	WATER ENTERING TEMP (°F)	GPM	PRESSURE DROP (FT.)	ENTERING AIR TEMPERATURE (°F)	MIN. HEATING CAPACITY	WATER ENTERING TEMP. (°F)	GPM	PRESSURE DROP (FT.)	CHILLED WATER	HOT WATER	
AHU-1	7,095	825	2.00	10.0	480	3	60	75.0	62.5	54.1	53.3	45	29.5	15.0	0.0	0	0.0	0.0	0.0	2"	0"	1,3,4,6,12,13,14
AHU-2	1,395	190	1.25	5.0	480	3	60	75.0	62.5	54.3	53.5	45	6.1	15.0	69.6	36,657	180.0	2.0	10.0	1"	3/4"	1,3,6,7,8,10,14
AHU-3	2,185	945	1.25	5.0	480	3	60	75.0	62.5	49.4	48.7	45	15.0	15.0	61.9	75,950	180.0	8.4	10.0	1 1/2"	1 1/4"	1,3,6,7,8,10,14
OAU-1	1,960	1,960	2.00	5.0	480	3	60	98.0	80.0	54.0	53.0	45	31.6	15.0	27.0	144,609	180.0	14.5	10.0	2"	1 1/2"	2,3,6,10,11,14

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GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. VELOCITY NOT TO EXCEED 500 FPM ON COOLING COIL.
2. VELOCITY NOT TO EXCEED 450 FPM ON COOLING COIL.
3. PROVIDE HORIZONTAL UNIT.
4. PROVIDE VARIABLE AIR VOLUME UNIT.
5. PROVIDE FRONT DISCHARGE.
6. PROVIDE TOP DISCHARGE.
7. PROVIDE THREE-WAY COOLING CONTROL VALVES.
8. PROVIDE CONSTANT VOLUME AIR UNT.
9. PROVIDE SINGLE ZONE VARIABLE AIR VOLUME UNIT.
10. PROVIDE THREE-WAY HEATING CONTROL VALVES.
11. PROVIDE HOT WATER COIL IN PRE-HEAT POSITION.
12. PROVIDE AUXILIARY DX COIL DOWNSTREAM OF CHILLED WATER COIL FOR AFTER HOURS USE DIRECT EXPANSION COIL SHALL BE R-410a.
13. DX COIL COOLING TOTAL CAPACITY SHALL BE 240,524 BTU/HR AND SENSIBLE CAPACITY SHALL BE 168,476 BTU/HR. ENTERING AND LEAVING AIR CONDITIONS SHALL BE AS SCHEDULED.
14. PROVIDE UNIT WITH VARIABLE FREQUENCY DRIVE.

PUMP

TAG	SERVICE	TYPE	GPM	HEAD (FT.)	MOTOR HORSE POWER	MAX. RPM	CURRENT CHARAC. V	P	F	MANUFACTURER	MODEL NUMBER	REMARKS
CHWP-1	CHILLED WATER	VERTICAL INLINE	101	90.00	5.00	1750	480	3	60	ARMSTRONG	4300	1,2,3
HWP-1	HEATING HOT WATER	VERTICAL INLINE	43	80.00	5.00	1750	480	3	60	ARMSTRONG	4300	1,2,3
HWP-2	HEATING HOT WATER	INLINE CIRCULATOR	43	15.00	0.50	1750	120	1	60	ARMSTRONG	4300	3,4

GENERAL NOTES:
1. PUMP IS TO HAVE A NON-OVERLOADING MOTOR.
2. MINIMUM RECOMMENDED CLEARANCE AROUND A PUMP IS 24 INCHES. MAINTAIN MINIMUM CLEARANCES AS REQUIRED FOR SERVICE, MAINTENANCE, AND INSPECTION.

REMARKS:
1. PROVIDE WITH VARIABLE FREQUENCY DRIVE.
2. PROVIDE SUCTION DIFFUSER AT PUMP INLET.
3. PROVIDE PUMP WITH GAUGE TAPS.
4. PUMP SHALL BE PROVIDED BY BOILER MANUFACTURER.

DUCTLESS MINI-SPLIT - OUTDOOR UNIT

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER	CURRENT CHARAC. V	PH	F	RELATED UNIT MARK	REMARKS
DMSCU-1	17,100	95	-/15.2	208	1	60	DMS-1	1,2,3

GENERAL NOTES:
1. MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH LOW AMBIENT CONTROL DOWN TO 20°F.
2. PROVIDE WITH DISCONNECT SWITCH.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.

PACKAGED AIR COOLED CHILLER

Model	ACTUAL CAPACITY (TONS)	LEAVING WATER TEMP.(°F)	GPM	PRESSURE DROP (FT.)	AMBIENT AIR TEMP. (°F)	CURRENT CHARAC. V	P	F	BASIS OF DESIGN MOCP	MCA	REMARKS
ACC	50	42	101	20.0	98 °F	480	3	60	175	128	1,2,3,4

GENERAL NOTES:
1. MAXIMUM FOULING FACTOR FOR THE EVAPORATOR IS 0.0001
2. MAINTAIN MINIMUM CLEARANCES REQUIRED BY CHILLER MANUFACTURER FOR PROPER AIRFLOW TO FANS AND UNIT. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON EQUIPMENT FOR SERVICE, MAINTENANCE AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCES AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH LOW AMBIENT HEAD PRESSURE CONTROL.
2. PROVIDE WITH INTEGRAL MAIN ELECTRICAL DISCONNECT SWITCH.
3. PROVIDE WITH INSULATION ON ALL SUCTION LINES.
4. PROVIDE WITH POLYMER CONDENSER FANS AND COMPRESSOR BLANKETS.

GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	OMNI	EXPOSED T-BAR CEILING FRAME STYLE WITH 24"X24" OR 12"X12" FACE.
B	RETURN AIR	GRILLE	-	STEEL	WHITE	TITUS	PAR	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24"X24" FACE. PERFORATED.
C	EXHAUST AIR	GRILLE	-	STEEL	WHITE	TITUS	PAR	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24"X24" OR 12"X12" FACE. PERFORATED FACE.
D	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	300RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)
E	RETURN AIR	GRILLE	-	STEEL	WHITE	TITUS	350RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)
G	EXHAUST AIR	GRILLE	-	STEEL	WHITE	TITUS	350RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)

GENERAL NOTES:
1. DAMPERS NOTED AS U.L. SHALLBE A 'U.L.' CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET.
2. COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT.

REMARKS:
1. N/A

GAS FIRED INFARED HEATER

MARK	BTUH HIGH	BTUH LOW	FLUE DIA. (IN.)	CURRENT CHARAC. V	PH	F	MANUFACTURER	MODEL NUMBER	TYPE	REMARKS
B-1	60000.0	50000.0 Btu/h	4	120	1	60	REZNOR	VPL-60-RL50	GAS FIRED TUBE HEATER	1,2,3,4
B-2	60000.0	50000.0 Btu/h	4	120	1	60	REZNOR	VPL-60-RL50	GAS FIRED TUBE HEATER	1,2,3,4
B-3	60000.0	50000.0 Btu/h	4	120	1	60	REZNOR	VPL-60-RL50	GAS FIRED TUBE HEATER	1,2,3,4
B-4	60000.0	50000.0 Btu/h	4	120	1	60	REZNOR	VPL-60-RL50	GAS FIRED TUBE HEATER	1,2,3,4
B-5	60000.0	50000.0 Btu/h	4	120	1	60	REZNOR	VPL-60-RL50	GAS FIRED TUBE HEATER	1,2,3,4
B-6	60000.0	50000.0 Btu/h	4	120	1	60	REZNOR	VPL-60-RL50	GAS FIRED TUBE HEATER	1,2,3,4
B-7	60000.0	50000.0 Btu/h	4	120	1	60	REZNOR	VPL-60-RL50	GAS FIRED TUBE HEATER	1,2,3,4
B-8	60000.0	50000.0 Btu/h	4	120	1	60	REZNOR	VPL-60-RL50	GAS FIRED TUBE HEATER	1,2,3,4

REMARKS:
1. PROVIDE MANUFACTURER'S RECOMMENDED MOUNTING HEIGHTS AND CLEARANCES
2. TWO SIED REFLECTOR SHALL BE ISTALLED TO PROJECT HEAT AWAY FROM EXTERIOR WALLS.
3. GAS FIRE TUBULAR HEATHER SHALL BE STAINLESS STEEL CONSTRUCTION.
4. PROVIDE ROOF VENTING CAP AND COMBUSTION AIR CAP TYPE ,SIZE , LOCATION AND CLEARANCE BY MANUFACTURERS RECOMMENDATIONS.

DUCTLESS MINI-SPLIT - INDOOR UNIT

MARK	FAN SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC. V	P	F	AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	COOLING MIN. TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER/ SEER	REMARKS
DMS-1	370	0	0.10	40.0	208	1	60	75.0	62.5	17,100	13,680	-/15.2	1,2,3,4,5,6

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
5. PROVIDE INTEGRAL MINI SPLIT CONDENSATE PUMP KIT ASP-MA-UNI MINI AQUA BY ASPEN PUMPS OR EQUAL. CONDENSATE PUMP SHALL BE INSTALLED INSIDE HIGH WALL UNIT. REFER TO MANUFACTURER INSTALLATION INSTRUCTIONS.
6. PROVIDE CONDENSATE OVERFLOW SWITCH TO DEACTIVATE UNIT IN THE EVENT OF AN OVERFLOW CONDITION.

BOILER - FORCED AIR (OUTDOOR)

MARK	TYPE	MINIMUM GAS INPUT (MBH)	MINIMUM HEAT OUTPUT (MBH)	PRESSURE DROP (FT.H20)	GPM	FLUE SIZE	ELECTRICAL BLOWER HORSEPOWER	CURRENT V	P	F	MANUFACTURER	MODEL NUMBER	REMARKS
B-1	NON-CONDENSING	500.0	425.0	10.0	43.0	6	0.50	120	1	60	LOCHINVAR	PBN0502	1,2

GENERAL NOTES:
1. PROVIDE 8 OUNCE GAS PRESSURE TO BOILER.
2. MAINTAIN MINIMUM CLEARANCE AROUND A BOILER OF 24 INCHES PER TEXAS BOILER LAW. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS FOR SERVICE, MAINTENANCE AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCES AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH CIRCULATING PUMP, SIZED BY BOILER MANUFACTURER TO ENSURE CONSTANT FLOW THROUGH BOILER. PUMP TO BE SHIPPED LOOSE. POWER BY ELECTRICAL CONTRACTOR BUT CONTROLLED BY BOILER. CONTRACTOR TO WIRE FROM BOILER PUMP CONTROL CIRCUIT TO PUMP STARTER RELAY.
2. PROVIDE SEALED COMBUSTION BOILER.

FAN SCHEDULE

TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	CURRENT CHAR V	P	F	LOCALLY SWITCHED	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
BAF-1	BARN D101	0	0.00	1300	0.5	120	1	60	CONTROLLER	-	WALL MOUNTED	DIRECT	BIG ASS FANS	YELLOW JACKET	4,6,10
BAF-2	BARN D101	0	0.00	1300	0.5	120	1	60	CONTROLLER	-	WALL MOUNTED	DIRECT	BIG ASS FANS	YELLOW JACKET	4,6,10
BAF-3	BARN D101	0	0.00	1300	0.5	120	1	60	CONTROLLER	-	WALL MOUNTED	DIRECT	BIG ASS FANS	YELLOW JACKET	4,6,10
BAF-4	BARN D101	0	0.00	1300	0.5	120	1	60	CONTROLLER	-	WALL MOUNTED	DIRECT	BIG ASS FANS	YELLOW JACKET	4,6,10
BAF-5	BARN D101	0	0.00	1300	0.5	120	1	60	CONTROLLER	-	WALL MOUNTED	DIRECT	BIG ASS FANS	YELLOW JACKET	4,6,11
BAF-6	BARN D101	0	0.00	1300	0.5	120	1	60	CONTROLLER	-	WALL MOUNTED	DIRECT	BIG ASS FANS	YELLOW JACKET	4,6,9
BAF-7	BARN D101	0	0.00	1300	0.5	120	1	60	CONTROLLER	-	WALL MOUNTED	DIRECT	BIG ASS FANS	YELLOW JACKET	4,6,12
BAF-8	BARN D101	0	0.00	1300	0.5	120	1	60	CONTROLLER	-	WALL MOUNTED	DIRECT	BIG ASS FANS	YELLOW JACKET	4,6,12
BAF-9	BARN D101	0	0.00	1300	0.5	120	1	60	CONTROLLER	-	WALL MOUNTED	DIRECT	BIG ASS FANS	YELLOW JACKET	4,6,12
BAF-10	BARN D101	0	0.00	1300	0.5	120	1	60	CONTROLLER	-	WALL MOUNTED	DIRECT	BIG ASS FANS	YELLOW JACKET	4,6,12
BAF-11	BARN D101	0	0.00	1300	0.5	120	1	60	CONTROLLER	-	WALL MOUNTED	DIRECT	BIG ASS FANS	YELLOW JACKET	4,6,9
BAF-12	BARN D101	0	0.00	1300	0.5	120	1	60	CONTROLLER	-	WALL MOUNTED	DIRECT	BIG ASS FANS	YELLOW JACKET	4,6,11
BAF-13	BARN D101	0	0.00	1300	0.5	120	1	60	CONTROLLER	-	WALL MOUNTED	DIRECT	BIG ASS FANS	YELLOW JACKET	4,5,6
EF-1	MEN'S RESTROOM-131	650	0.25	1050	0.25	120	1	60	-	OAU-1	INLINE	DIRECT	COOK	SQND	1,2,3,7
EF-2	HALLWAY-119	330	0.25	1312	0.25	120	1	60	-	OAU-1	INLINE	DIRECT	COOK	SQND	1,2,3,7
EF-3	MAINTENANCE BAY-143	1800	5.50	1800	3	480	3	60	CP-1	-	INLINE	BELT	ASCENT SYSTEMS	BD-15-30	1,8
EF-4	MAINTENANCE BAY-143	1800	5.50	1800	3	480	3	60	CP-2	-	INLINE	BELT	ASCENT SYSTEMS	BD-15-30	1,8
EF-5	MAINTENANCE BAY-143	12000	0.50	1038	5	480	3	60	SWITCH	-	INLINE	BELT	COOK	SQN-B	1,2,3,7
EF-6	MAINTENANCE BAY-143	0	0.50	1038	5	480	3	60	SWITCH	-	INLINE	BELT	COOK	SQN-B	1,2,3,7
EF-7	STORAGE-149	680	0.50	1677	0.25	120	1	60	-	SF-1	INLINE	DIRECT	COOK	SQND	1,2,3,7
EF-8	TOOLS STORAGE-137	175	0.50	1420	0.25	120	1	60	-	OAU-1	INLINE	DIRECT	COOK	SQND	1,2,3,7
EF-9	COMPRESSOR ROOM	300	0.25	1420	0.25	120	1	60	-	TSTAT	INLINE	DIRECT	COOK	SQND	1,2,3,7
SF-1	STORAGE-149	450	0.50	1500	0.25	120	1	60	SWITCH	-	INLINE	DIRECT	COOK	SQND	1,2,3,7,13

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH DISCONNECT.
2. REFER MANUFACTURER FOR INSTALLATION INSTRUCTIONS.
3. PROVIDE WITH MOTORIZED DAMPER.
4. MOUNT FAN TO STRUCTURAL BEAMS. REFER TO MANUFACTURER RECOMMENDATIONS FOR MORE INFORMATION ON MOUNTING OPTIONS AND REQUIRED CLEARANCE.
5. PROVIDE WITH REMOTELY SPEED CONTROLLER WITH ON/OFF FUNCTION AND 10 SPEEDS.
6. PROVIDE WITH OSCILLATING KIT.
7. SUSPEND EXHAUST FAN FROM STRUCTURE WITH 1/2 INCH ZINC PLATED ALL-THREAD RODS SECURED TO STRUCTURE.
8. PROVIDE WITH TEFC MOTOR ARR 4 CONFIGURATION. INCLUDES RIS ISOLATORS AND IRIDESCENT. CONTROLLER BY REMOTE START CONTROL PANEL (120/1/60 SUPPLY REQUIRED) AND WIRELESS TRANSMITTER.
9. PROVIDE WITH A BAFCON MULTIPLE FAN CONTROLLER. TO CONTROL THE FOLLOWING FANS "BAF-6 & BAF-11".
10. PROVIDE WITH A BAFCON MULTIPLE FAN CONTROLLER. TO CONTROL THE FOLLOWING FANS "BAF-1, BAF-2, BAF-3 & BAF-4".
11. PROVIDE WITH A BAFCON MULTIPLE FAN CONTROLLER. TO CONTROL THE FOLLOWING FANS "BAF-5 & BAF-12".
12. PROVIDE WITH A BAFCON MULTIPLE FAN CONTROLLER. TO CONTROL THE FOLLOWING FANS "BAF-7, BAF-8, BAF-9 & BAF-10".
13. PROVIDE WITH LINE VOLTAGE THERMOSTAT.

VEHICLE EXHAUST SYSTEM SCHEDULE

VT-1	ASCENT SYSTEM VACUUM HOLSTER MODEL # VH-620ES, INCLUDES 6" x 20' HT HOSE, A6STA TAILPIPE ADAPTER WITH SILICON BOOT, DIRECT CLAMPING DEVICE & SS DAMPER. BRACKET SUSPENSION KIT A6BHS HOLSTERS SUPPLIED IN BLACK UNLESS CALLED OUT OTHERWISE.
EF-3 EF-4	(REFER TO FAN SCHEDULE)
CP-1 CP-2	CONTROLLED BY REMOTE START CONTROL PANEL (120/3/60 SUPPLY REQUIRED) AND WIRELESS TRANSMITTER.

GENERAL NOTES:
1.DUCT SIDE AT 2,500 FEET PER MINUTE AND MINIMUM 26 GAUGE SPIRAL DUCT TO BE USED.
2.LOCATION OF RAIL, DROP AND FANS CONFIRM WITH OWNER.

UNIT HEATER - ELECTRIC

MARK	MINIMUM CAPACITY (BTUH)	KW	NUMBER OF STAGES	CURRENT CHAR. V	P	F	CFM	MANUFACTURER	MODEL	REMARKS
EUH-1	10,236	3	2	208	1	60	430	REZNOR	EUH	1,2
EUH-2	10,236	3	2	208	1	60	430	REZNOR	EUH	1,2

1

REMARKS:
1. PROVIDE WITH PENDANT MOUNTED THERMOSTAT.
2. PROVIDE WITH DISCONNECT SWITCH.

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Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2022-01042-00

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09.23.24

BUS PARKING AND MAINTENANCE FACILITY

Beaumont Independent School District
2445 Concord Road, Beaumont, Texas 77703

NO.	ISSUE	DATE
	Schematic Design	03/06/2024
	Design Develepment	05/20/2024
	Owner's Final Review	08/02/2024
	Bids and Construction	08/21/2024
1	ADDENDUM #2	09/23/2024

SHEET NUMBER:
M500

SHEET NAME:
MECHANICAL SCHEDULES

SCALE:

PROJECT NUMBER:
23042

9/23/2024 11:17:53 AM Author: AA

ELECTRICAL KEYED NOTES

#	Description
1	RECEPTACLE FOR WALL MOUNTED DISPLAY. CONTRACTOR TO COORDINATE FINAL LOCATION WITH ARCHITEC/OWNER PRIOR TO ROUGH-IN COMPLETION.
3	PROVIDE ELECTRIC CORD REEL WITH GFCI DOUBLE DUPLEX RECEPTACLE. MOUNT REEL TO BOTTOM OF STRUCTURE.
4	PROVIDE 6-GANG CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH (1) DUPLEX RECEPTACLE, (1) "CONTROLLED" RECEPTACLE, AND DATA/AV DEVICES REQUIRED BY TECHNOLOGY. PROVIDE WIREMOLD #6RFBA-SERIES OR APPROVED EQUAL.
5	PROVIDE ELECTRIC CORD REEL WITH GFCI DOUBLE DUPLEX RECEPTACLE FOR VEHICLE LIFT CHARGING. MOUNT REEL TO BOTTOM OF STRUCTURE.
6	CONTRACTOR TO COORDINATE EXACT LOCATION FOR TIME CLOCK RECEPTACLE WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. CONTRACTOR TO MAKE FINAL FINAL CONNECTION.
7	INDOOR MINI SPLIT POWERED FROM OUTSIDE CONDENSER ROUTE 1#12, 1#12G., 3/4"C. FROM OUTDOOR UNIT TO INDOOR UNIT. MAKE FINAL CONNECTIONS.
8	CONTRACTOR TO PAINT LINE ON FLOOR IN ACCORDANCE WITH CODE CLEARANCE.
9	CONTRACTOR TO COORDINATE EXACT LOCATION OF AV RACK RECEPTACLE WITH TECHNOLOGY (T-SERIES) DRAWINGS PRIOR TO ROUGH IN AND MAKE FINAL CONNECTION.

ELECTRICAL KEYED NOTES

#	Description
10	PROVIDE RECPETACLE FOR OSCILATING FAN. COORDINATE EXACT MOUTING HEIGHT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN AND MAKE FINAL CONNECTION.
11	PROVIDE JUNCTION BOX FOR OSCILATING FAN CONTROLLER. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN AND MAKE FINAL CONNECTION.
12	VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER, PROVIDE BY DIVISION23, INSTALLED BY DIVISION 26

GENERAL NOTES

1	ELECTRICAL CONTRACTOR SHALL PROVIDE A 120-VOLT CONNECTION TO ALL VAV UNITS VIA LOW VOLTAGE TRANSFORMER PROVIDED WITH UNIT. PROVIDE 2#12, 1#12G., 3/4"C. TO NEAREST CONVENIENCE RECEPTACLE, NOT TO EXCEED 15-AMPS. COORDINATE EXACT LOCATION WITH DIVISION 23 AND MAKE FINAL CONNECTION.

MAINTENANCE BAY 143 - SHALL COMPLY WITH THE FOLLOWING:
CLASSIFICATION: HAZARDOUS LOCATION: MAJOR REPAIR GARAGE
NON-VENTILATED; CLASS I, DIVISION II.

CLASS I DIVISION II - CLASSIFIED AREA EXTEND FROM FINISHED FLOOR TO +18" AFF.

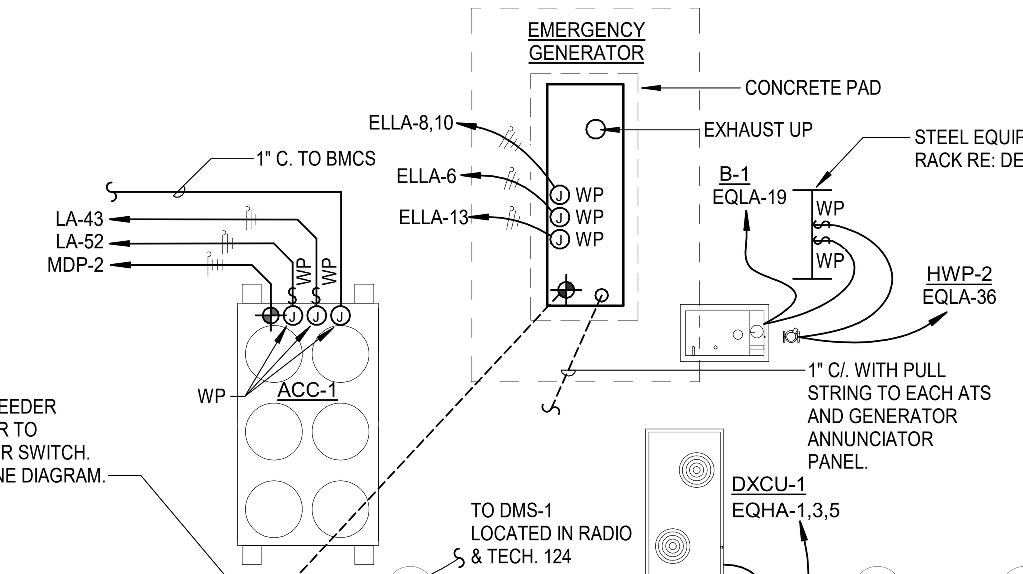
1. MOUNT ALL ELECTRICAL DEVICES AT LEAST 42" AFF UNLESS NOTHED OTHERWISE. DEVICES LOCATED +18" OR BELOW SHALL BE RATED INSTALLED PER CLASSIFIED AREA.

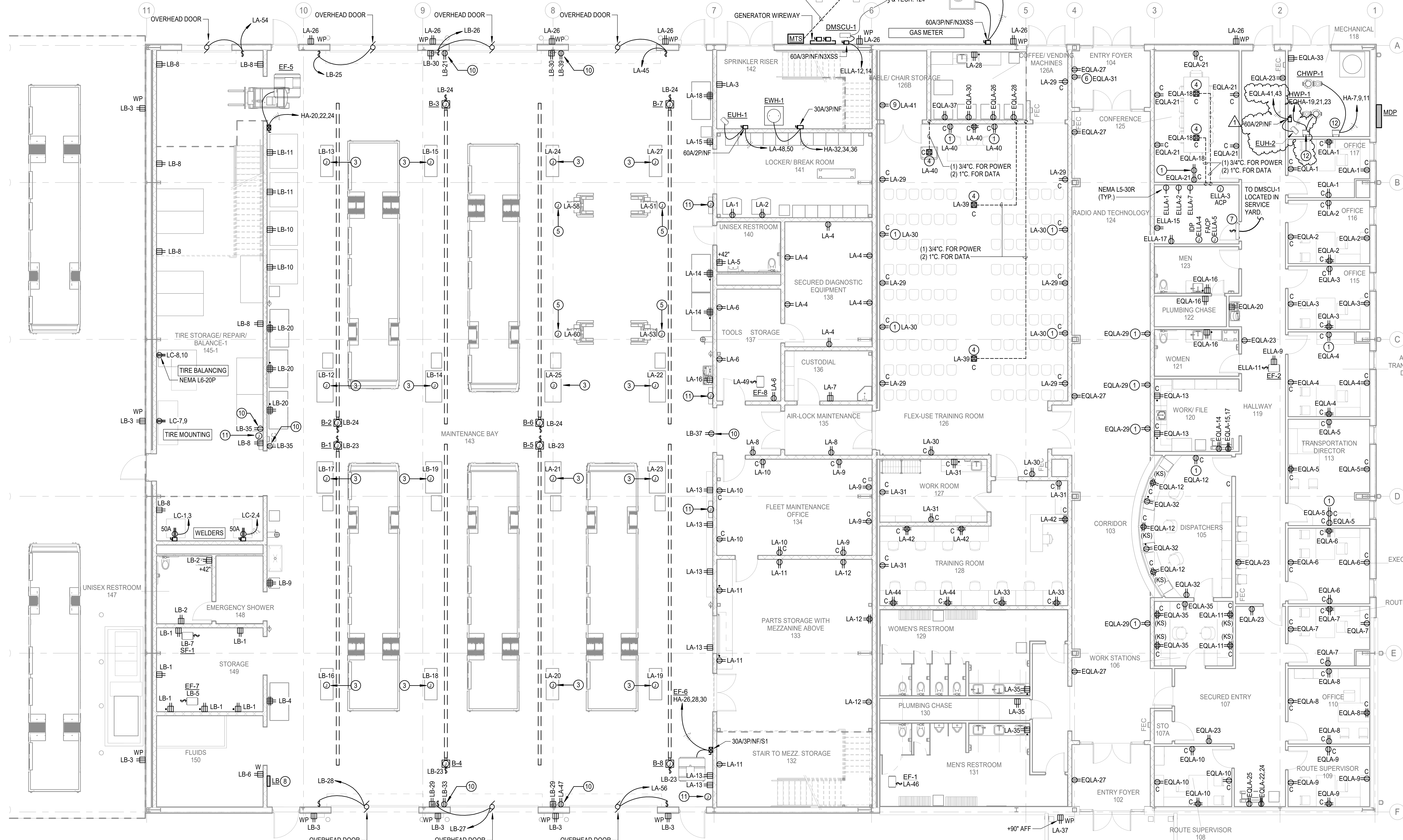
2. PROVIDE VAPOR TIGHT CONDUIT SEALS AS REQUIRED PER NEC 501.15(C)

3. ALL CONDUIT BELOW 24"AFF SHALL BE RIGID GALVANIZED CONDUIT.

4. MOUNT THE BOTTOM OF PANEL BOARDS AT MINIMUM OF 30" AFF WITH OPERATOR FOR CIRCUIT BREAKERS, SWITCHES, ETC.. AT MAXIMUM OF 78" AFF. PROVIDE ADDTIONAL PANELBOARD SECTIONS AS REQUIRED.

5. REFER TO NEC 500, 501, 505, 511 FOR ADDITIONAL INFORMATION.





ELECTRICAL POWER PLAN - LEVEL 1
Scale: 1/8" = 1'-0"

BUS PARKING AND MAINTENANCE FACILITY
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Salas O'Brien Registration: F-4111
Salas O'Brien Project Number: 2022-01042-00

NO.	ISSUE	DATE
	Schematic Design	03/06/2024
	Design Development	05/20/2024
	Owner's Final Review	08/02/2024
	Bids and Construction	08/21/2024
1	ADDENDUM #2	09/23/2024

SHEET NUMBER:
E300

SHEET NAME:
ELECTRICAL POWER FLOOR PLAN

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

PROJECT NUMBER:
23042

9/23/2024 10:13:09 AM Author: DS/JS

Branch Panel: EQLA

Location: ELECTRICAL 202 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: TEQLA **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 150A MCB

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker		Wire	Circuit Description	CKT	Note
						Phase in kVA								
	1	RECEPTACLES OFFICE...	#12	20	1	0.9 / 0.9			1	20	#12	RECEPTACLES OFFICE...	2	
	3	RECEPTACLES OFFICE...	#12	20	1		0.9 / 0.9		1	20	#12	RECEPTACLES ASST....	4	
	5	RECEPTACLES TRANSP....	#12	20	1			1.1 / 0.9	1	20	#12	RECEPTACELS...	6	
	7	RECEPTACLES ROUTE...	#12	20	1	0.9 / 0.9			1	20	#12	RECEPTACLES OFFICE...	8	
	9	RECEPTACLES ROUTE...	#12	20	1		0.9 / 0.9		1	20	#12	RECEPTACELS ROUTE...	10	
	11	RECEPTACLES WORK...	#12	20	1			0.7 / 1.3	1	20	#12	RECEPTACLES...	12	
	13	RECEPTACLES WORK/...	#12	20	1	0.4 / 1.5			1	20	#12	COPIER WORK/ FILE 120	14	
	15	COPIER WORK/ FILE 120	#12	20	2		1.0 / 0.5		1	20	#12	RECEPTACLES...	16	
	17							1.0 / 0.9	1	20	#12	RECEPTACLES...	18	
	19	BOILER (B-1)	#12	20	1	0.6 / 0.2			1	20	#12	RECEPTACLES HALLWA...	20	
	21	RECEPTACLES...	#12	20	1		1.1 / 1.0		2	20	#12	COPIER SECURED ENTR...	22	
	23	RECPETACLES...	#12	20	1			0.9 / 1.0					24	
	25	COPIER SECURED ENTR...	#12	20	1	1.5 / 1.5			1	20	#12	Vending Machine	26	G
	27	RECEPTACLES...	#12	20	1		0.9 / 1.5		1	20	#12	Vending Machine	28	G
	29	RECEPTACLES...	#12	20	1			0.7 / 1.5	1	20	#12	Vending Machine	30	G
	31	TIMECLOCK RECPETACL...	#12	20	1	0.2 / 0.5			1	20	#12	DISPATCHER...	32	
	33	RECEPTACLES...	#12	20	1		0.2 / 0.5		1	20	#12	RECEPTACLES...	34	
	35	RECEPTACLES WORK...	#12	20	1			0.9 / 1.1	1	20	#12	HWP-2	36	
G	37	Vending Machine	#12	20	1	1.5 / 0.0			1	20	--	SPARE	38	--
	39	BMCS	#12	20	1		0.5 / 0.0		1	20	--	SPARE	40	--
	41	EUH-2	#8	50	2			3.0 / 0.0	1	20	--	SPARE	42	--
	43					3.0 / 0.0			1	20	--	SPARE	44	--
--	45	SPARE	--	20	1		0.0 / 0.0		1	20	--	SPARE	46	--
--	47	SPARE	--	20	1			0.0 / 0.0	1	20	--	SPARE	48	--
--	49	SPARE	--	20	1	0.0 / 0.0			3	30	--	SPDL	50	--
--	51	SPARE	--	20	1		0.0 / 0.0						52	
--	53	SPARE	--	20	1			0.0 / 0.0					54	
				Total Load:		14.5 kVA	10.8 kVA	15.0 kVA						
				Total Amps:		125 A	90 A	130 A						

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	1.1 kVA	100.00%	1.1 kVA		
Heating	3.6 kVA	100.00%	3.6 kVA	Total Conn. Load:	40.3 kVA
Miscellaneous	13.5 kVA	100.00%	13.5 kVA	Total Est. Demand:	34.3 kVA
Receptacles	22.1 kVA	72.64%	16.0 kVA	Total Conn. Current:	112 A
				Total Est. Demand...	95 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: HA

Location: ELECTRICAL 202 **Volts:** 277/480 Wye **A.I.C. Rating:** 18,000
Supply From: MDP **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 250A MCB

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker		Wire	Circuit Description	CKT	Note
						Phase in kVA								
	1	LIGHTING	#12	20	1	2.0 / 2.7			1	20	#12	LIGHTING	2	
	3	LIGHTING	#12	20	1		1.3 / 1.1		1	20	#10	EXTERIOR LIGHTING	4	C
C	5	SITE LIGHTING	#8	20	1			0.4 / 0.7	1	20	#12	LIGHTING	6	
	7	CHWP-1	#12	20	3	2.0 / 0.0			1	20	--	SPARE	8	--
	9						2.0 / 0.0		1	20	--	SPARE	10	--
	11							2.0 / 0.0	1	20	--	SPARE	12	--
	13	AHU-2	#12	20	3	2.1 / 14.3			3	125	1-L	XFMR TLA	14	
	15						2.1 / 11.5						16	
	17							2.1 / 13.8					18	
	19	AHU-3	#12	20	3	2.1 / 1.2			3	20	#12	EF-5	20	
	21						2.1 / 1.2						22	
	23							2.1 / 1.2					24	
--	25	SPACE	--	--	1	0.0 / 1.2			3	20	#12	EF-6	26	
--	27	SPACE	--	--	1		0.0 / 1.2						28	
--	29	SPACE	--	--	1			0.0 / 1.2					30	
--	31	SPACE	--	--	1	0.0 / 5.0			3	30	#10	EWH-1	32	
--	33	SPACE	--	--	1		0.0 / 5.0						34	
--	35	SPACE	--	--	1			0.0 / 5.0					36	
--	37	SPACE	--	--	1	0.0 / 0.0			3	30	--	SPDL	38	--
--	39	SPACE	--	--	1		0.0 / 0.0						40	
--	41	SPACE	--	--	1			0.0 / 0.0					42	
				Total Load:		32.8 kVA	27.7 kVA	28.6 kVA						
				Total Amps:		119 A	100 A	104 A						

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	41.4 kVA	100.00%	41.4 kVA		
Lighting	9.8 kVA	125.00%	12.2 kVA	Total Conn. Load:	89.1 kVA
Miscellaneous	18.7 kVA	100.00%	18.7 kVA	Total Est. Demand:	86.9 kVA
Receptacles	19.3 kVA	75.93%	14.6 kVA	Total Conn. Current:	107 A
				Total Est. Demand...	104 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
C - CONTACTOR CONTROLLED CIRCUIT

Branch Panel: ELHA

Location: ELECTRICAL 202 **Volts:** 277/480 Wye **A.I.C. Rating:** 22,000
Supply From: ATS-2 **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 100A MLO

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker		Wire	Circuit Description	CKT	Note
						Phase in kVA								
	1	EMERGENCY LIGHTING	#10	20	1	2.4 / 2.7			1	20	#10	EMERGENCY LIGHTING	2	
	3	EMERGENCY LIGHTING	#10	20	1		0.7 / 1.5		1	20	#10	EMERGENCY LIGHTING	4	
	5	EMERGENCY LIGHTING	#10	20	1			2.6 / 0.0	1	20	--	SPARE	6	--
--	7	SPARE	--	20	1	0.0 / 0.0			1	20	--	SPARE	8	--
--	9	SPARE	--	20	1		0.0 / 0.0		1	20	--	SPARE	10	--
--	11	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	12	--
--	13	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	14	--
--	15	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	16	--
--	17	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	18	--
--	19	SPACE	--	--	1	0.0 / 9.5			3	50	1-L	TELLA	20	
--	21	SPACE	--	--	1		0.0 / 1.6						22	
--	23	SPACE	--	--	1			0.0 / 3.5					24	
--	25	SPACE	--	--	1	0.0 / 0.0			3	30	--	SPDL	26	--
--	27	SPACE	--	--	1		0.0 / 0.0						28	
--	29	SPACE	--	--	1			0.0 / 0.0					30	
				Total Load:		14.6 kVA	3.8 kVA	6.1 kVA						
				Total Amps:		54 A	14 A	23 A						

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	2.7 kVA	100.00%	2.7 kVA		
Lighting	9.9 kVA	125.00%	12.4 kVA	Total Conn. Load:	24.5 kVA
Miscellaneous	11.4 kVA	100.00%	11.4 kVA	Total Est. Demand:	27.0 kVA
Receptacles	0.5 kVA	100.00%	0.5 kVA	Total Conn. Current:	29 A
				Total Est. Demand...	32 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: EQHA

Location: ELECTRICAL 202 **Volts:** 277/480 Wye **A.I.C. Rating:** 22,000
Supply From: ATS-1 **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 250A MLO

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker		Wire	Circuit Description	CKT	Note
						Phase in kVA								
	1	DXCU-1	#6	60	3	24.4 / 2.5			1	20	#12	LIGHTING	2	
	3						24.4 / 0.0		1	20	--	SPARE	4	--
	5							24.4 / 0.0	1	20	--	SPARE	6	--
	7	AHU-1	#10	30	3	3.9 / 0.0			1	20	--	SPARE	8	--
	9						3.9 / 0.0		1	20	--	SPARE	10	--
	11							3.9 / 0.0	1	20	--	SPARE	12	--
	13	OAU-1	#12	20	3	2.1 / 0.0			1	--	--	SPACE	14	--
	15						2.1 / 0.0		1	--	--	SPACE	16	--
	17							2.1 / 0.0	1	--	--	SPACE	18	--
	19	HWP-1	#12	20	3	2.0 / 0.0			1	--	--	SPACE	20	--
	21						2.0 / 0.0		1	--	--	SPACE	22	--
	23							2.0 / 0.0	1	--	--	SPACE	24	--
	25	TEQLA	1-L	70	3	14.5 / 0.0			1	--	--	SPACE	26	--
	27						10.8 / 0.0		1	--	--	SPACE	28	--
	29							15.0 / 0.0	1	--	--	SPACE	30	--
--	31	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	32	--
--	33	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	34	--
--	35	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	36	--
--	37	SPACE	--	--	1	0.0 / 0.0			3	30	--	SPDL	38	--
--	39	SPACE	--	--	1		0.0 / 0.0						40	
--	41	SPACE	--	--	1			0.0 / 0.0					42	
				Total Load:		49.4 kVA	43.2 kVA	47.4 kVA						
				Total Amps:		181 A	156 A	173 A						

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	56.9 kVA	100.00%	56.9 kVA		
Heating	3.6 kVA	100.00%	3.6 kVA	Total Conn. Load:	140.0 kVA
Lighting	2.5 kVA	125.00%	3.2 kVA	Total Est. Demand:	134.6 kVA
Miscellaneous	54.9 kVA	100.00%	54.9 kVA	Total Conn. Current:	168 A
Receptacles	22.1 kVA	72.64%	16.0 kVA	Total Est. Demand...	162 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: LC

Location: COMPRESSOR ROO... **Volts:** 240 3Ph Delta **A.I.C. Rating:** 10,000
Supply From: TLC **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 3 **Mains:** 225A MCB

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker		Wire	Circuit Description	CKT	Note
						Phase in kVA								
G	1	WELDER	#8	50	2	4.0 / 4.0			2	50	#8	WELDER	2	G
	3						4.0 / 4.0						4	
--	5	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	6	--
G	7	TIRE MOUNTING	#10	30	2	0.8 / 2.1			2	20	#12	TIRE BALANCER	8	G
	9						0.8 / 2.1						10	
	11	AC-2	#3	100	2			8.7 / 0.0	1	--	--	SPACE	12	--
	13					8.7 / 0.0			1	--	--	SPACE	14	--
	15	AC-1	#3	100	2		8.7 / 0.0		1	--	--	SPACE	16	--
	17							8.7 / 0.0	1	--	--	SPACE	18	--
--	19	SPACE	--	--	1	0.0 / 0.0			1	--	--	SPACE	20	--
--	21	SPACE	--	--	1		0.0 / 0.0		1	--	--	SPACE	22	--
--	23	SPACE	--	--	1			0.0 / 0.0	1	--	--	SPACE	24	--
--	25	SPACE	--	--	1	0.0 / 0.0			3	30	--	SPDL	26	--
--	27	SPACE	--	--	1		0.0 / 0.0						28	
--	29	SPACE	--	--	1			0.0 / 0.0					30	
				Total Load:		19.6 kVA	19.6 kVA	17.4 kVA						
				Total Amps:		144 A	144 A	126 A						

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Miscellaneous	56.6 kVA	100.00%	56.6 kVA		
				Total Conn. Load:	56.6 kVA
				Total Est. Demand:	56.6 kVA
				Total Conn. Current:	136 A
				Total Est. Demand...	136 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
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LO - PROVIDE PERMANENT LOCK-ON DEVICE

Branch Panel: ELLA

Location: ELECTRICAL 202 **Volts:** 120/208 Wye **A.I.C. Rating:** 10,000
Supply From: TELLA **Phases:** 3 **Enclosure:** Type 1
Mounting: Surface **Wires:** 4 **Mains:** 100A MCB
LSI TRIP

Note	CKT	Circuit Description	Wire	Breaker		A	B	C	Breaker		Wire	Circuit Description	CKT	Note
						Phase in kVA								
	1	UPS RECEPTACLE	#10	30	1	2.5 / 2.5			1	30	#10	UPS RECEPTACLE	2	
LO	3	INTRUSION DETECTION	#12	20	1		0.5 / 0.5		1	20	#12	CONVEN. RECEPTACLE	4	
LO	5	FIRE ALARM PANEL	#12	20	1			0.5 / 0.5	1	20	#12	GEN. LIGHTS / RECEPT.	6	
	7	UPS RECEPTACLE	#10	30	1	2.5 / 0.3			2	20	#12	GEN. BATTERY CHARGER	8	
	9	EF-2 RECEPTACLE	#12	20	1		0.2 / 0.3						10	
	11	EF-2	#12	20	1			1.1 / 1.3	2	30	#10	DMSCU-1	12	
G	13	GENERATOR HEATER	#12	20	1	0.5 / 1.3							14	
LO	15	ERRC RADIO SYSTEM	#12	20	1		0.2 / 0.0		1	--	--	SPACE	16	--
	17	DISTRICT RADIO	#12	20	1			0.2 / 0.0	1	--	--	SPACE	18	--
--	19	SPARE	--	20	1	0.0 / 0.0			1	--	--	SPACE	20	--
--	21	SPARE	--	20	1		0.0 / 0.0		1	--	--	SPACE	22	--
--	23	SPARE	--	20	1			0.0 / 0.0	1	--	--	SPACE	24	--
--	25	SPARE	--	20	1	0.0 / 0.0			1	--	--	SPACE	26	--
--	27	SPARE	--	20	1		0.0 / 0.0		1	--	--	SPACE	28	--
--	29	SPARE	--	20	1			0.0 / 0.0	1	--	--	SPACE	30	--
--	31	SPARE	--	20	1	0.0 / 0.0			1	--	--	SPACE	32	--
--	33	SPARE	--	20	1		0.0 / 0.0		1	--	--	SPACE	34	--
--	35	SPARE	--	20	1			0.0 / 0.0	1	--	--	SPACE	36	--
--	37	SPARE	--	20	1	0.0 / 0.0			3	30	--	SPDL	38	--
--	39	SPARE	--	20	1		0.0 / 0.0						40	
--	41	SPARE	--	20	1			0.0 / 0.0					42	
				Total Load:		9.5 kVA	1.6 kVA	3.5 kVA						
				Total Amps:		82 A	13 A	32 A						

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	2.7 kVA	100.00%	2.7 kVA		
Miscellaneous	11.4 kVA	100.00%	11.4 kVA	Total Conn. Load:	14.6 kVA
Receptacles	0.5 kVA	100.00%	0.5 kVA	Total Est. Demand:	14.6 kVA
				Total Conn. Current:	41 A
				Total Est. Demand...	41 A

Notes:

Abbrevations:
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BUS PARKING AND MAINTENANCE FACILITY

Beaumont Independent School District
2445 Concord Road, Beaumont, Texas 77703

NO.	ISSUE	DATE
	Schematic Design	03/06/2024
	Design Develepment	05/20/2024
	Owner's Final Review	08/02/2024
	Bids and Construction	08/21/2024
1	ADDENDUM #1	09/13/2024
2	ADDENDUM #2	09/23/2024

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Salas O'Brien Registration: F-4111

Salas O'Brien Project Number: 2022-01042-00

SHEET NUMBER:
E500

SHEET NAME:
ELECTRICAL PANEL SCHEDULES

SCALE:

PROJECT NUMBER:
23042

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