

JEFFERSON COUNTY PURCHASING DEPARTMENT Deborah L. Clark, Purchasing Agent

1149 Pearl Street 1<sup>st</sup> Floor, Beaumont, TX 77701 OFFICE MAIN: (409) 835-8593 FAX: (409) 835-8456

| IFB NUMBER:    | IFB 22-073/JW   |
|----------------|---|
| IFB TITLE:     | Main Terminal HVAC Rehabilitation at the Jack Brooks Regional Airport |
| IFB DUE BY:    | 11:00 AM CT, Wednesday, Friday, 15, 2023                              |
| ADDENDUM NO.:  | 2   |
| ISSUED (DATE): | February 13, 2022   |

## Addendum to IFB

**To Bidder:** This Addendum is an integral part of the IFB package under consideration by you as a Bidder in connection with the subject matter herein identified. Jefferson County deems all sealed bids to have been proffered in recognition and consideration of the entire IFB Specifications Package – *including all addenda*. For purposes of clarification, **receipt of this present Addendum by a Bidder should be evidenced by returning it (signed) as part of the Bidder's sealed bid submission.** If the bid submission has already been received by the Jefferson County Purchasing Department, Bidder should return this addendum in a separate sealed envelope, clearly marked with the IFB Title, IFB Number, and IFB Opening Date and Time, as stated above.

## Reason for Issuance of this Addendum: CLARIFICATIONS AND PLAN SHEETS

The information included herein is hereby incorporated into the documents of this present bid matter and supersedes any conflicting documents or portion thereof previously issued.

Receipt of this Addendum is hereby acknowledged by the undersigned Respondent:

| ATTEST: |  |
|---------|--|
|         |  |

Witness

Witness

Authorized Signature (Respondent)

Title of Person Signing Above

Typed Name of Business or Individual

Approved by \_\_\_\_ Date: \_\_\_\_\_

Address

| Item | Specification                 | Drawing  | RFI/Question  | Confirm / Advise / Recommendation / Spec Edit  | A/E Response   |
|------|-------------------------------|--|---|--|--|
| 1    | 237313-2.2-A-7                | M2.03A, M2.04, M2.05,<br>M2.06A, M2.06B, M2.07 | Spec requires units to be provided with Coil Piping<br>Vestibules unless indicated otherwise. However, M-Plan<br>pictures indicate that there will not be enough room<br>between the units if Coil Piping Vestibules are provided.  | Confirm that Coil Piping Vestibules are not required.  | Coil piping vestibule viability will be evaluated on a unit-<br>by-unit basis at the time of submittal review since<br>specific manufacturers may or may not be able to<br>comply. The submittal evaluation will consider the<br>contractor's proposed means and methods. No change<br>to bid documents. |
| 2    | 237313-2.2-C                  | M2.03A, M2.04, M2.05,<br>M2.06A, M2.06B, M2.07 | Spec requires VFD to be mounted within the unit cabinet.<br>However, M-Plan pictures show VFD's mounted on the<br>outside of the Temtrol units; it is difficult to know if the<br>Trane units VFD's are mounted on the inside of the units or<br>if the VFD's are remotely mounted. | Advise if the VFD's are to be remotely mounted or mounted within the AHU.  | Alternate locations will be considered at the time of<br>submittal review since specific manufacturers may or<br>may not be able to comply. The submittal evaluation<br>will consider the contractor's proposed means and<br>methods. No change to bid documents.  |
| 3    | 237313-2.2-D                  | N/A  | Spec requires a 0.25" thick (1/4" thick) aluminum ID plate.   | Confirm that this is a typo and 0.125" thick (1/8" thick) aluminum ID plates are required.   | 1/8 inch thick ID plates will be acceptable.   |
| 4    | 237313-2.3-A                  | N/A  | Spec requires a minimum 12 gauge galvanized structural steel base rail. Thickness of "Structural Steel" is not stated in "gauge".   | Confirm the words "structual steel" are meant as a unit support<br>term and formed & welded minimum 12 gauge sheet metal is an<br>acceptable material for the base rail. | No exception would be taken.   |
| 5    | 237313-2.3-A,B,C              | N/A  | Spec requires polyester resin paint. Not all manufacturers<br>utilize polyester resin paint. No performance is provided<br>for the paint.   | Confirm Sherwin-Williams Genesis LV paint is acceptable.   | No exception would be taken.   |
| 6    | 237313-2.4-А, 2.4-В,<br>2.5-В | N/A  | Spec refers to fan & drive "bearings" but requires direct<br>drive fans.  | Confirm direct drive fans are required and sections referring to fan & drive bearings are N/A.   | No exception would be taken.   |
| 7    | 237313-2.6-Н                  | N/A  | Spec requires intermediate drain pans that extend 6" from<br>the coil face. Not all manufacturers can provide that<br>amount of extension; the extension changes based on how<br>tall the top coil is.  | Confirm the manufacturer's standard intermediate drain pan extension is acceptable.  | The drain pan must meet the requirements of ASHRAE<br>62.1 per paragraph 2.6.F.  |
| 8    | 237313-2.7-A                  | N/A  | Spec requires metal tubing for the filter D.P. gauge. Some<br>manufacturers mount the filter D.P. gauge flush in the<br>access door; therefore poly tubing is used since it is<br>flexible.   | Confirm that poly tubing for the filter D.P. guage is an acceptable material.  | No exception would be taken.   |

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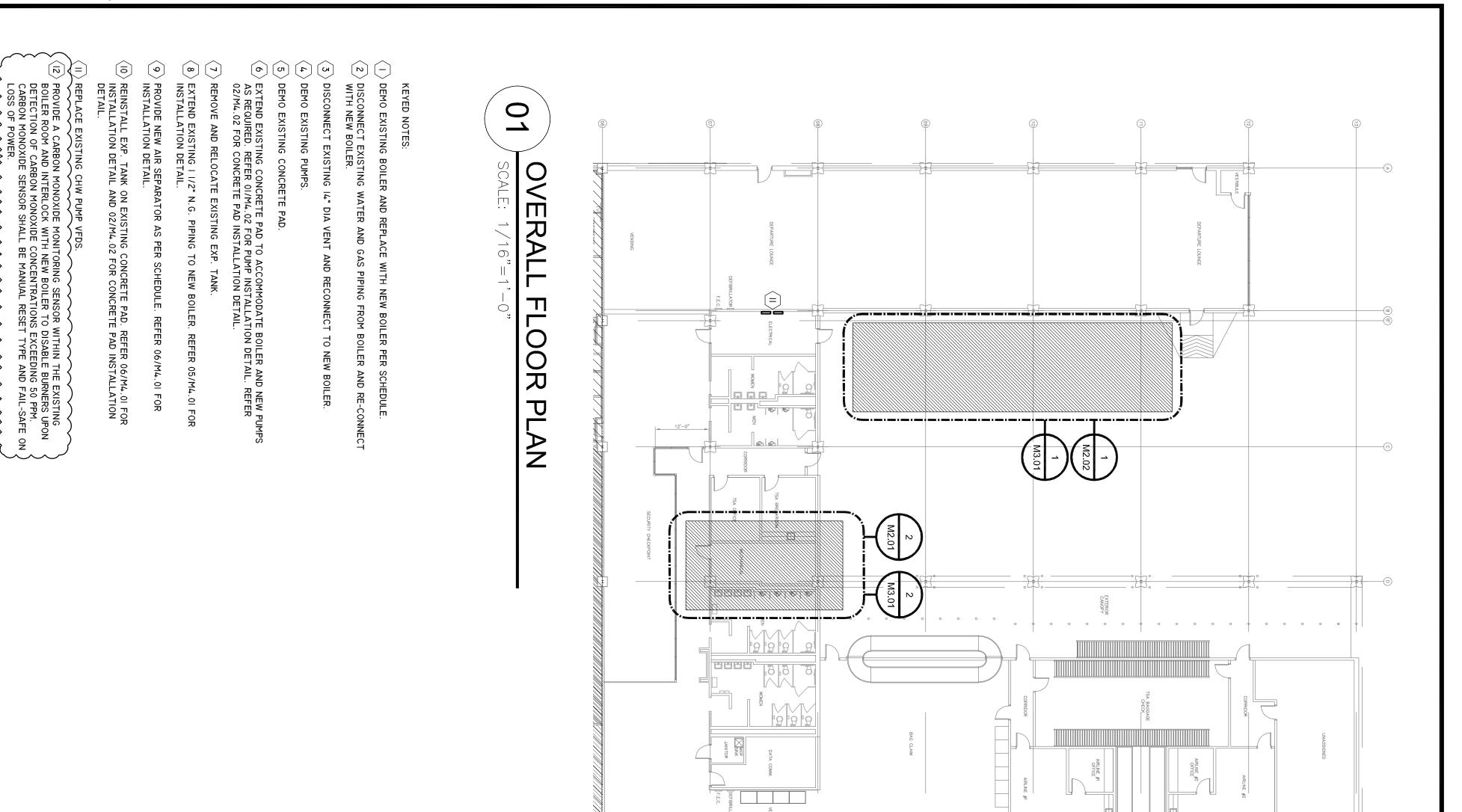
| AIR      |  |
|----------|--|
| IR SEF   |  |
| PAR.     |  |
| ATOF     |  |
|          |  |
| SCHEDULE |  |
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| E (A     |  |

|   |   |  |                                   |  |   | I. PROV  | AS-2             | AS-I          | PLAN<br>MARK   |                             |
|---|---|--|-----------------------------------|--|---|--|------------------|---------------|--|-----------------------------|
|   | I. REPLACE E<br>2. PROVIDE F<br>3. PROVIDE F<br>4. PROVIDE F  | REMARKS:   | EF-2<br>EF-3                      | MARK   |   | NOTES:   | MECH ROOM        | CHILLER       | LOCATION   |                             |
|   | <ol> <li>REPLACE EXISTING EXHAUST FAN.</li> <li>PROVIDE FANS WITH ECM MOTORS.</li> <li>PROVIDE FANS WITH BIRDSCREEN.</li> <li>PROVIDE FANS RATED FOR 150 MPH</li> </ol> |  | TOILET EXHAUST<br>MECH RM EXHAUST | SERVICE<br>TOILET EXHAUST                          |   | LINE SIZE AIF  |                  | YARD          | TION   |                             |
|   | REPLACE EXISTING EXHAUST FAN. RETAIN AND RE<br>PROVIDE FANS WITH ECM MOTORS.<br>PROVIDE FANS WITH BIRDSCREEN.<br>PROVIDE FANS RATED FOR 150 MPH PER UBC 1609            |  |                                   | LOCATION   |   | SEPARATOR.   | HOT WATER        | CHILLED WATER | SYSTEM   |                             |
|   | REUSE EXISTING CL<br>09.  | IN-LINE, LINE SIZE AIR SEPARATOR.<br>FAN SERVICE FAN SERVICE LOCATION AIR VOLUME FAN TYPE ES.P.<br>TOLET EXHAUST ROOF 1125 CENT 0.50<br>TOLET EXHAUST ROOF 635 CENT 0.50<br>REPLACE EXISTING EXHAUST FAN. RETAIN AND REUSE EXISTING CURB AND BACKORAFT DAMPER.<br>PROVIDE FANS WITH BORSCREFEN |                                   | £  | 3   | PIPE (<br>INLET (IN)   | AIR SE           |               |  |                             |
|   | JRB AND BACKDRAF  |  | CENT                              | FAN TYPE<br>CENT                                   | HEDUL   |  | Ł                | 3             | CONNECTIONS  | EPARA                       |
|   | T DAMPER.   |  | 0.50 -                            | 0.50 -   | E (EF)  |  |                  |               |  | TOR S                       |
|   |   |  |                                   | TYPE   | BID   |  | 200              | 280           | FLOW (GPM)   | CHEDU                       |
|   |   |  |                                   | DRIVE RPM  | BID ALTERNATE   |  | J                | ப             | WPD (FT WG)  | AIR SEPARATOR SCHEDULE (AS) |
|   |   |  |                                   | FAN<br>V/P/Hz HP<br>120/1/60 0.25                  | RNATE   |  | BELL             | BELL          |  |                             |
|   |   |  |                                   |  |   |  | BELL AND GOSSETT | AND GOSSETT   | MANUFACTURER   |                             |
|   |   |  | GREENHECK                         | MANUFACTURER & MODEL<br>(AS STANDARD)<br>GREENHECK |   |  | 1                | ;             | MODEL  |                             |
|   |   |  | l, 2, 3, 4<br>l, 2, 3, 4          | REMARKS  |   |  | _                | _             | NOTES  |                             |
|   |   |  |                                   |  |   | NOTES:<br>5. PR  | C-2              | C-            | MARK   |                             |
| NOTES:<br>1. PROVIDE LOW WATER CUT-OUT.<br>2. PROVIDE HIGH LIMIT CONTROL-AUTO RESET.<br>3. PROVIDE BOILER WITH FACTORY WIRED CIRCULATION<br>PUMP MOTOR STARTER. |   | ₹ <u>₹</u>   | * 2                               |  | PROVIDE FACT<br>PROVIDE CHILL<br>SELECT THE C   | OVIDE UNIT<br>OVIDE UNIT<br>OVIDE UNIT<br>OVIDE FACT   |                  | 80            | K CAPACITY<br>(TONS)                                 |                             |
|   |   | МАИ  |                                   |  | FACTORY INSTALLED THERMAL DISPERSION TYPE FLOW SWITCH.<br>CHILLER CAPABLE OF OPERATING AT 57% OF DESIGN FLOW RATE.<br>THE CHILLERS FOR VARIABLE PRIMARY CHILLED WATER FLOW APPLICATION. | UNIT SUITABLE FOR LOW AMBIENT OPERATION TO 0 DEGREES F.<br>UNIT WITH SINGLE POINT POWER CONNECTION.<br>UNIT WITH VARIABLE SPEED TEAO CONDENSER FAN MOTORS.<br>FACTORY SUPPLIED NEOPRENE VIBRATION ISOLATORS.<br>CHILLERS WITH HERMETIC - SCROLL COMPRESSORS. |                  | 72            | Y CAPACITY<br>(TONS)                                 |                             |
|   | LOCHINVAR   | MANUFACTURER   |                                   |  | D THERMAL D<br>DF OPERATING<br>VARIABLE PRII  | RMETIC - SCR   |                  | 101           | TOTAL UNIT<br>POWER<br>(KW)                          |                             |
| SET.<br>CIRCULATION   |   |  |                                   | <  | ISPERSION TY<br>AT 57% OF I<br>MARY CHILLED   | T OPERATION<br>CONNECTION<br>CONNECTION.<br>CONDENSER<br>BRATION ISOL  |                  | 175           | FLOW FI<br>GPM TE                                    |                             |
| ù tr  | POWERFIN  | ТҮРЕ   |                                   | VERTICAL   | PE FLOW SWI<br>DESIGN FLOW<br>) WATER FLOV  | TO 0 DEGREE<br>FAN MOTORS<br>ATORS.  | -                | 58 44         | COOLER<br>ENT. LVG.<br>FLUID FLUID<br>TEMP° F TEMP F |                             |
| PROVIDE BOILERS WITH<br>PROVIDE BOILERS WITH<br>SENSOR/THERMAL WELI   |   | GR(<br>(M  |                                   | -  | TCH.<br>RATE.<br>V APPLICATIO   | ν<br>Γ   |                  | 12.5          | ER<br>MAX FLUID<br>PRESS.<br>F DROP FT.              | AIR CO                      |
| F   | 1,680   | GROSS<br>OUTPUT<br>(MBH)   | CAPACITY                          | WAT  |   |  |                  | WATER         | FLUID<br>TYPE  | 10                          |
| LOW NOX EMISSION BURNERS.<br>REMOTE HW SUPPLY TEMPERATURE<br>AND OUTSIDE AIR TEMP SENSOR.   | 2,000   | GROSS<br>INPUT<br>(MBH)  |                                   | ER T   |   |  | EXISTING         | 105           | AIR COOLED<br>CONDENSER<br>AMBIENT<br>TEMP° F        | _ED CI                      |
| BURNERS.<br>' TEMPERATUF<br>FEMP SENSOR   | 180   | SUPPLY<br>(F)  | DESIGN                            | UBE  |   | 9. PROVIDE CC<br>10. PROVIDE CH<br>11. PROVIDE CH  | G CHILLER        | 460/3/60      | ELECTRIC<br>SUPPLY                                   | CHILL                       |

|                        |                    |  |   |                                       |   |  |                      | ιŅ.   | ) NOTES:                   |                          |       |                                       |                                |             |               |          |                      |                             |  |   |                  |          |
|------------------------|--------------------|--|---|---------------------------------------|---|--|----------------------|---|----------------------------|--------------------------|-------|---------------------------------------|--------------------------------|-------------|---------------|----------|----------------------|-----------------------------|--|---|------------------|----------|
|                        |                    |  |   |                                       |   |  |                      |   |                            |                          |       |                                       |                                |             |               |          |                      |                             | PER UBC 1609.  | PROVIDE FANS WITH BIRDSCREEN.<br>PROVIDE FANS RATED FOR 150 MPH PER UBC 1609. | 3. PROVIDE FANS  |          |
| 180                    | 2,000              | 1,680                                      | POWERFIN  | POWI                                  |   | LOCHINVAR  |                      |   | B-                         |                          |       |                                       |                                |             |               | 2        | BACKDRAFT DAMPEI     | XISTING CURB AND I          | REPLACE EXISTING EXHAUST FAN. RETAIN AND REUSE EXISTING CURB AND BACKDRAFT DAMPER. | EXISTING EXHAUST FAN. R<br>FANS WITH ECM MOTORS.                              | I. REPLACE EXIST |          |
| (F)                    | (MBH)              | (MBH)                                      |   |                                       |   |  |                      |   | $\sum$                     |                          |       |                                       |                                |             |               |          |                      |                             |  |   | REMARKS:         | RE       |
| SUPPLY                 | GROSS              | GROSS                                      |   |                                       |   | MANUFAC LURER  | MAN                  |   | MARK                       |                          |       |                                       |                                |             |               |          |                      |                             |  |   |                  |          |
| DESI                   | ТҮ                 | CAPACITY                                   | )<br>1  | į                                     |   |  |                      |   | PLAN                       | I, 2, 3, 4<br>I, 2, 3, 4 |       | GREENHECK                             | 120/1/60 0.25<br>120/1/60 0.25 | 985 I20     | - DIRECT      | · · ·    | NT 0.50              | 635 CENT                    | ROOF   | TOILET EXHAUST<br>MECH RM EXHAUST   | EF-2 TO          |          |
|                        |                    |  |   |                                       |   |  |                      |   | $\left  \right $           | , 2, 3, 4                | ECK   | GREENHECK                             |                                |             | - DIRECT      | 1        |                      |                             | ROOF   | TOILET EXHAUST  |                  |          |
| TUBE                   | ER TU              | VERTICAL WAT                               | TICA  | VER.                                  |   |  |                      |   |                            | REMARKS                  |       | MANUFACTURER & MODEL<br>(AS STANDARD) | V/P/Hz HP                      | RPM V       | TYPE DRIVE    | DIA.(IN) | TYPE E.S.P.<br>IN WG | AIR VOLUME FAN TYPE         | LOCATION AIR   | SERVICE   | MARK             |          |
|                        |                    |  |   |                                       |   |  |                      |   |                            |                          |       |                                       | EAN                            |             | WHEEL         |          |                      |                             |  |   |                  |          |
|                        |                    | ATION.                                     | FACTORY INSTALLED THERMAL DISPERSION TYPE FLOW SWITCH.<br>CHILLER CAPABLE OF OPERATING AT 57% OF DESIGN FLOW RATE.<br>THE CHILLERS FOR VARIABLE PRIMARY CHILLED WATER FLOW APPLICATION. | TYPE FLOW<br>)F DESIGN F<br>_ED WATER | DISPERSION<br>G AT 57% O<br>IMARY CHILL | PROVIDE FACTORY INSTALLED THERMAL DISPERSION TYPE FLOW SWITCH.<br>PROVIDE CHILLER CAPABLE OF OPERATING AT 57% OF DESIGN FLOW RATE.<br>SELECT THE CHILLERS FOR VARIABLE PRIMARY CHILLED WATER FLOW APPL | DRY INSTALLE         | PROVIDE FACTO<br>PROVIDE CHILL<br>SELECT THE CI | 6. PR(<br>7. PR(<br>8. SEL |                          |       |                                       | IATE                           | - TERN      | BID ALTERNATE | EF)      | DULE (               | FAN SCHEDULE (EF)           | FAN  |   |                  |          |
|                        |                    |  |   | ESSORS.                               | ROLL COMPRI                             | CHILLERS WITH HERMETIC - SCROLL COMPRESSORS.   | ERS WITH HE          |   |                            |                          |       |                                       |                                |             |               |          |                      |                             |  |   |                  |          |
|                        |                    |  | )TORS.  | ON.<br>ER FAN MO                      | R CONNECTION IS                         | UNIT WITH SINGLE POINT POWER CONNECTION.<br>UNIT WITH VARIABLE SPEED TEAD CONDENSER FAN MOTORS.  | WITH SINGLE          |   |                            |                          |       |                                       |                                |             |               |          |                      |                             |  |   |                  |          |
| PROVIDE (<br>PROVIDE ( | 9.<br>10.          |  | GREES F.  | ON TO 0 DE                            | VT OPERATIC                             | UNIT SUITABLE FOR LOW AMBIENT OPERATION TO 0 DEGREES F.  | SUITABLE FOF         | <u>es:</u><br>Provide unit :                    | E                          |                          |       |                                       |                                |             |               |          |                      |                             | ARATOR.  | notes:<br>1. provide in-line, line size air separator.                        | de in-line, lin  | I. PROVI |
|                        |                    |  |   |                                       |   |  |                      |   |                            |                          |       |                                       |                                |             |               |          |                      |                             |  |   |                  |          |
|                        |                    |  |   |                                       |   |  |                      |   |                            |                          |       |                                       |                                |             |               |          |                      |                             |  |   |                  |          |
| CHILLER                | EXISTING           |  |   |                                       |   |  |                      |   | C-2                        | _                        | 1     | BELL AND GOSSETT                      | BELL A                         | ப           |               | 200      | ъ                    | £                           | HOT WATER  |   | MECH ROOM        | AS-2     |
| 460/3/6                | 105                | 12.5 WATER                                 | 44 12   | 58                                    | 175                                     | 101  | 72                   | 80  | C-                         | _                        | 1     | BELL AND GOSSETT                      | BELL A                         | σ           |               | 280      | ъ                    | δ                           | CHILLED WATER  |   | CHILLER YARD     | AS-I     |
| SUPPLY                 | AMBIENT<br>TEMP° F | MAX FLUID FLUID<br>PRESS.<br>DROP FT. TYPE | LVG. MAX<br>FLUID PRE<br>TEMP·F DROF  | ENT.<br>FLUID<br>TEMP° F T            | FLOW<br>GPM                             | POWER<br>(KW)  | Y CAPACITY<br>(TONS) | CAPACITY<br>(TONS)                              | MARK                       | NOTES                    | MODEL | MANUFACTURER                          | MANU                           | WPD (FT WG) | (GPM) W       | FLOW (   | OUTLET (IN)          | INLET (IN)                  | SYSTEM   |   | LOCATION         | MARK     |
|                        | AIR COOLED         |  | <b>1</b> <sup>177</sup>   | $\left\{ \right\}$                    |   | TOTAL UNIT   |                      | NOMINAL   |                            |                          |       |                                       |                                |             |               |          | CTIONS               | PIPE CONNECTIONS            |  |   |                  |          |
|                        | ED CHIL            | AIR COOL                                   | AIR   |                                       |   |  |                      |   |                            |                          |       |                                       |                                | (AS)        | EDULE         | R SCH    | RATO                 | AIR SEPARATOR SCHEDULE (AS) | AIF  |   |                  |          |
|                        |                    |  |   |                                       |   |  |                      |   | ]                          |                          |       |                                       |                                |             |               |          |                      |                             |  |   |                  |          |

CHWP-2CHILLER YARDCHILLED WATERB&G SERIESHWP-1MECH ROOMBOILER CIRCB&G SERIESHWP-2MECH ROOMHEATING WATERB&G SERIES EHWP-3MECH ROOMHEATING WATERB&G SERIES ENOTES:....2. PROVIDE PUMPS WITH MATCHING VARIABLE SPEED...3. PROVIDE PUMPS WITH PREMIUM EFFICIENCY, INVERTER DUTY TEFC M..4. PROVIDE PUMPS WITH PREMIUM EFFICIENCY TEFC MOTOR AND HOA NOTOR. CHWP-I PLAN MARK CHILLER YARD LOCATION CHILLED WATER SERVICE B&G SERI B&G SERI B&G SERIE B&G SERIE B&G SERIE SE 

| Market Construction of the second sec |  | DE PUMPS WITH MATCHING VARIABLE SPEED.<br>IDE PUMPS WITH PREMIUM EFFICIENCY, INVERTER DUTY TEFC MOTORS.<br>IDE PUMPS WITH SUCTION DIFFUSER.<br>IDE PUMPS WITH PREMIUM EFFICIENCY TEFC MOTOR AND HOA MOTOR STARTER. | CHILLER YARDCHILLED WATERB&G SERIES ISI0 MODEL 2EBFRAME-MOUNTEDI4095I,750I0480/3/60I,2,3CHILLER YARDCHILLED WATERB&G SERIES ISI0 MODEL 2EBFRAME-MOUNTEDI40951,750I0480/3/60I,2,3MECH ROOMBOILER CIRCB&G SERIES 90 MODEL 2ABIN-LINEI15201,750I.0480/3/60I,2,3MECH ROOMHEATING WATERB&G SERIES E-I532 MODEL 2ADIN-LINE200903,5507.5480/3/60I,2,3MECH ROOMHEATING WATERB&G SERIES E-I532 MODEL 2ADIN-LINE200903,5507.5480/3/60I,2,3 | SERVICE SERIES & MODEL TYPE GPM HEAD RPM HP | PUMP SCHEDULE | <ol> <li>4. PROVIDE BOILERS WITH LOW NOX EMISSION BURNERS.</li> <li>5. PROVIDE BOILERS WITH REMOTE HW SUPPLY TEMPERATURE<br/>SENSOR/THERMAL WELL AND OUTSIDE AIR TEMP SENSOR.</li> <li>8. PROVIDE BOILER WITH FACTORY INSTALLED DIGITAL CONTROLLER. REFERENCE CONTROL<br/>BRAWING AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.</li> <li>8. PROVIDE BOILER WITH PRESSURE VESSEL DESIGNED AND STAMPED FOR 160 PSIG WORKING PRESSURE.<br/>AND 50 PSIG ASME SAFETY RELIEF VALVE.</li> </ol> | 180 | CAPACITY DESIGN WATER TEMP FLOW<br>GROSS GROSS GROSS SUPPLY RETURN (GPM) NATURAL GAS<br>OUTPUT INPUT (PRESSURE,<br>(MBH) (MBH) (F) (F) | ER TUBE BOILER SCHEDULE | W SWITCH.<br>FLOW RATE.<br>R FLOW APPLICATION. | <ol> <li>9. PROVIDE CONDENSER COILS WITH FACTORY E-COAT AND HAIL GUARDS.</li> <li>10. PROVIDE CHILLERS WITH FACTORY REFRIGERANT CIRCUIT ISOLATION VALVES.</li> <li>11. PROVIDE CHILLER WITH CONTROLS COMMUNICATION INTERFACE TO EXISTING JCI BAS CONTROL SYSTEM.</li> </ol> | ELECTRIC<br>SUPPLYMCAMOCPOPERATING<br>WEIGHTREFRIGERANTMAKE AND MODELREMARKS460/3/601814650R-134AYORK YLAA SERIESALLCHILLER                             | AIR COOLED CHILLER SCHEDULE |  |
|--|--|--|--|---|---------------|--|-----|--|-------------------------|--|---|---|-----------------------------|--|
| AT, A<br>DRAWN BY<br>ME, SK<br>OHECKED BY<br>SHEET NUMBER<br>SCHEDULES<br>PROJECT NO.  | MATTA FLUKINGER<br>MATTA FLUKINGER<br>119970<br>MATTA FLUKINGER |  | JEFFERSC   |   | 000 JE        | TY REG<br>NAL HVAC<br>ERRY WARE<br>JMONT, TEXAS  |     |  | AIRP(                   | ORT  |   | SIGMAENCINEERS<br>Innovative Solutions   Solid Designs<br>4099 Calder Avenue<br>Beaumont, Texas 77706<br>Phone (409) 898-1001<br>www.sigmaengineers.com |                             |  |



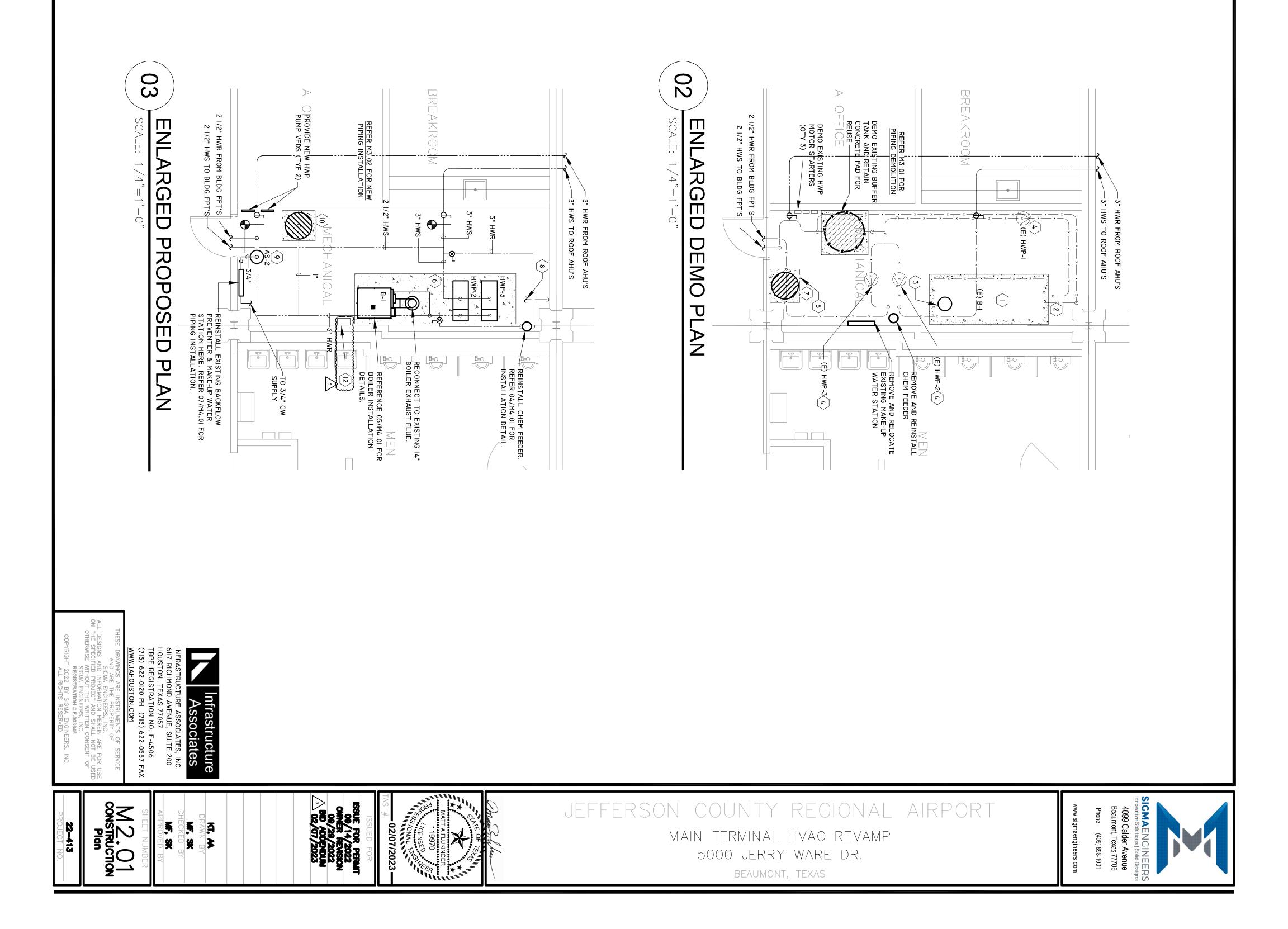
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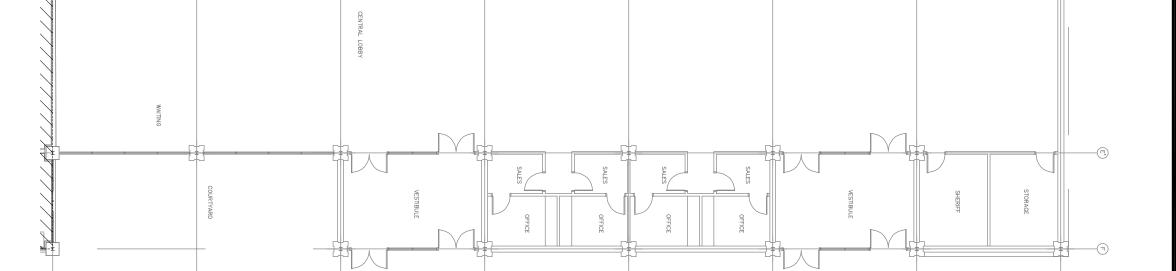
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