Milnet Architectural Services, PLLC

ADDENDUM NUMBER: #5 **Date: November 7, 2018**

Project Name: Sharyland Water Supply Corp
New Building

Milnet Project No.: 217017

Date: November 7, 2018

Bid Date: November 13, 2018

Architect: Milnet Architectural Services
608 S. 12th St.
McAllen, TX 78501

11/07/2018

NOTICE TO ALL BIDDERS

This Addendum forms a part of the Contract Document and modifies the original Drawings issued for sealed proposals, to the extent noted herein.

Careful note of this Addendum shall be taken by all parties of interest so that proper allowance is made in all computations, estimates and contracts and so that all trades affected are fully advised in the performance of work that will be required by them. Acknowledge receipt of this addendum by inserting its number and date of issue in the place provided for same in the proposal.

Items revised on the Drawings are designated by a cloud line and triangle surrounding the corresponding revision number.

This Addendum supersedes all previous Drawings, Specifications and instructions pertaining to these items. It is imperative that this addendum be inserted INTO set of specifications.

5.01 **Bid Date has been extended to Tuesday, November 13, 2018. Location and time remain the same.**

5.02 GC Question: "Please clarify Hard Tile, specs are calling for 6X6 porcelain tile on restroom floors and walls groups 4 & 5 and Room finish schedule has 4X4 ceramic tile on walls and 12x12 Porcelain tile on floors. No collection name on neither one."
Response: Floor tile shall be 12x12 and wall tile shall be 12x24 by American Olean - Etiquette Colorbody Porcelain.

5.03 See Attached Civil addendum.

5.04 See Attached MEP addendum.

5.05 **The deadline for questions has passed and there will be no more written/oral clarifications provided.**

END OF ADDENDUM

SDI ENGINEERING
A Limited Liability Company
TBPE Licensed No F-13016
Civil • Transportation • Planning • Stormwater
5602 E. Iowa Road, Edinburg, Texas 78542 (956) 287-1818 office (956) 287-3697 fax

ADDENDUM NO. 5

DATE: November 7, 2018

RE: Sharyland Water Supply Administration Building

OWNER: Sharyland Water Supply Corporation

TO: ALL PROPOSERS, HOLDERS OF SPECIFICATIONS, AND ALL INTERESTED PARTIES TO THE TTBH

BID OPEN: 4:00 P.M. (Central Time), Thursday, November 8, 2018

The following clarifications, corrections and directives shall become part of the Proposal, Contract Documents and Specifications for the **Sharyland Water Supply Administration Building**

CLARIFICATIONS/MODIFICATIONS

In response to RFI #1 dated November 1, 2018, from D. Wilson Construction

1. No, the aprons off Shary Road are asphalt, not concrete.

2. This note is left over from a previous version of the drawing and is not applicable.

3. Referring to Sheet C-5, Alt. #4, the subgrade will be lime stabilized at 1%.

4. Yes, the Recreational Slab Alternate is the same as the Basketball Court, Alternate #2.

5. Referring to Sheet C-7, storm drainage will be graded to drain.

6. Please refer to response #3 on Addendum #2, which states “Contractor may use spoil to raise the grade within low lying areas of the construction site. Any excess spoil with deleterious material (i.e. concrete, trash, stone), shall be disposed of by contractor.”

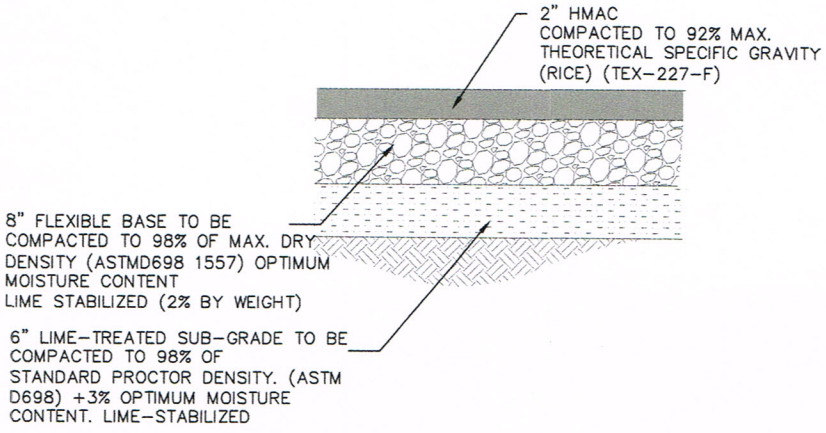
7. Please see attached Exhibit A for TYPICAL 2” ASPHALT PAVEMENT SECTION.

8. 4” FlexBase will be required under concrete paving.

9. This project is taxable.

Please make the necessary corrections to the Plans and Proposal, as appropriate.

PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED IN THE BID PROPOSAL FORM.



TYPICAL 2" ASPHALT PAVEMENT SECTION (EXHIBIT "A")

STATE OF TEXAS
ISAEL POSADAS
89435
LICENSED
PROFESSIONAL ENGINEER

11/6/18

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ISAEL POSADAS, P.E. No. 89435 ON NOVEMBER 6, 2018. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

SDI ENGINEERING, LLC
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INFO@SDI-ENGINEERING.COM
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TRINITY
MEP ENGINEERING

P: 956.973.0500 | F: 956.351.5750
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Texas Registered Engineering Firm No. - F10362

11/7/2018

ADDENDUM #5

Project Name: Sharyland Water Supply Corp. New Office Building
Project Number: 18.2.17
Architect: Milnet Architectural Services
Date: 11/7/2018

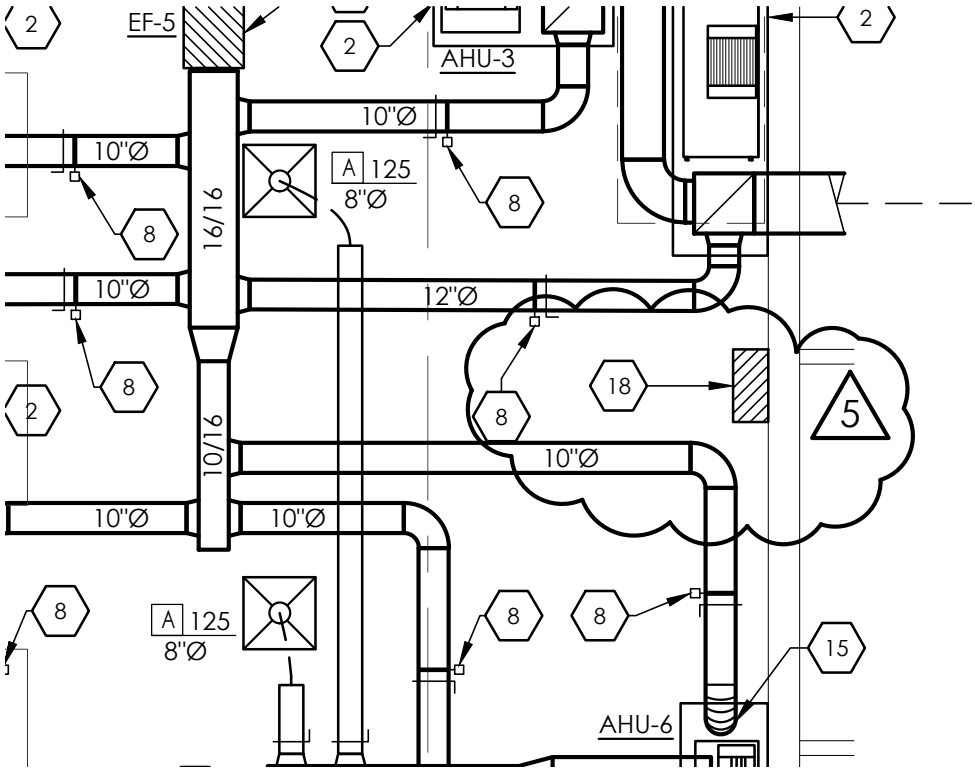
Note: The work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time Proceeding with the Work in accordance with these instructions indicates your acknowledgement that there will be no change in the Contract Sum or Contract Time.

I. Specifications:
II. General:
III. Mechanical:
    A. Sheet M1.1 – ADDED controls enclosure and note, refer to attached.
    B. SHEET M4.1 – added controls for AHU-7 and general controls note, refer to attached.
IV. Electrical:
V. Plumbing: N/A
VI. Fire Protection: N/A

17 DUCT DROP DOWN FROM MEZZANINE.

18 ENCLOSURE FOR HVAC CONTROLS SYSTEM. PROVIDE MATERIALS & COST FOR A 120 VOLT 20 AMP CIRCUIT TO NEAREST 120V PANEL.

5



1 MEZZANINE PLAN
1/8" = 1'-0"

11/07/18

STATE OF TEXAS
Wilford L. McGee III
121939
LICENSED
PROFESSIONAL ENGINEER

TRINITY
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p:956.973.0500 I f:956-351-5750
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Texas Registered Engineering Firm - F10362
Project number: 18.2.17

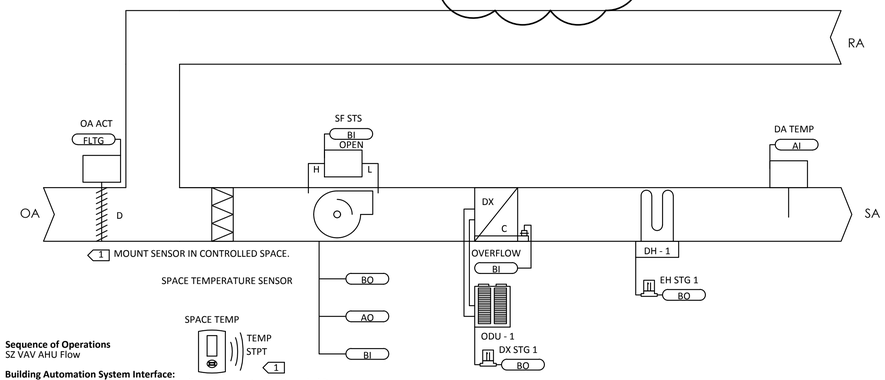
5 ADD5- AM1.1B

MILNET
ARCHITECTURAL
SERVICES
Ph: (956) 688-5656
Fax: (956) 687-9289
Email: milnet@swbell.net

Project Name:	SHARYLAND WATER SUPPLY CORP.
Address:	MISSION, TEXAS
Date:	11/07/18
Job Number:	217017

GENERAL, MECHANICAL, & CONTROLS CONTRACTOR SHALL HAVE TWO HALF-DAY MEETINGS TO DISCUSS SEQUENCES BEING IMPLEMENTED FOR EACH PIECE OF EQUIPMENT WITH ENGINEER AND OWNER. CONTROLS CONTRACTOR SHALL COORDINATE WITH OWNER AND ENGINEER INPUT AS CONTROLS ARE BEING IMPLEMENTED FOR EACH PIECE OF EQUIPMENT.

SZVAVAHU 1 ~ 6 5



Sequence of Operations
SZ VAV AHU Flow

Building Automation System Interface:
The Building Automation System (BAS) shall send the controller Occupied Bypass, Morning Warm-up / Pre-Cool, Occupied / Unoccupied and Heat / Cool modes. If a BAS is not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints.

Occupied Mode:
During occupied periods the supply fan shall run continuously and the outside air damper shall open to maintain minimum ventilation requirements. The electric heating and DX cooling shall stage to maintain the active space temperature setpoint.

Optimal Start:
The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

Morning Warm-Up Mode:
During optimal start, if the space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating and supply fan. The outside air damper shall remain closed. When the space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

Pre-Cool Mode:
During optimal start, if the space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the fan and cooling or economizer. The outside air damper shall remain closed, unless economizing. When the space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

Optimal Stop:
The BAS shall monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller shall maintain the space temperature to the space temperature offset setpoint.

Occupied Bypass:
The BAS shall monitor the status of the “on” and “cancel” buttons of the space temperature sensor. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

Space Temperature Control:
Cascade zone control shall be used in the occupied, occupied bypass, and occupied standby modes. It maintains zone temperature by controlling the discharge air temperature to control the zone temperature while minimizing the fan speed.
The space temperature shall be maintained between the occupied cooling setpoint of 74
.0 deg. F (adj.) and the occupied heating setpoint of 71.0 deg. F (adj.). The unit shall transition to the cooling mode when the space temperature rises one degree above the occupied cooling setpoint of 74.0 deg. F (adj.). The unit shall transition to the heating mode when the space temperature drops one degree below the occupied heating setpoint of 74.0 deg. F (adj.).

Economizer Control:
Economizing shall be enabled when the outdoor air temperature is below the economizing enable setpoint of 65.0 deg. F (adj.). Economizing shall be disabled when the outdoor air temperature is greater than 5.0 deg. F above the economizer enable setpoint. When economizing is enabled the outside air damper shall modulate between the minimum damper position and 100% open to maintain the occupied cooling setpoint. If the outdoor air temperature sensor fails, economizing shall be disabled and an alarm shall be annunciated at the BAS.

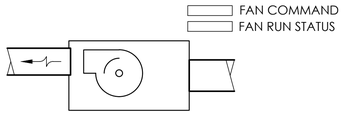
Supply Fan Operation:
The supply fan shall cycle on demand during the unoccupied mode. When the controller is in the occupied mode, the supply fan shall operate continuously at the lowest minimum speed required to maintain space temperature. The supply fan status shall be monitored by the ECM motor controller. If the supply fan fails the fan shall be commanded off and an alarm shall be annunciated at the BAS. A manual reset shall be required to restart the fan.

Condensate Overflow Monitoring:
If the condensate level reaches the trip point, a condensate overflow diagnostic shall be annunciated at the BAS. To prevent the condensate drain pan from overflowing and causing water damage to the building the fan shall be disabled and the DX cooling shall be disabled.

Filter Timer:
The fan-run time (hrs) shall be compared to the filter maintenance timer setpoint. Once the setpoint is reached a filter timer alarm diagnostic shall be annunciated at the BAS. When the diagnostic is cleared, the filter-maintenance timer is reset to zero, and the timer begins accumulating fan-run time again.

EXHAUST FANS

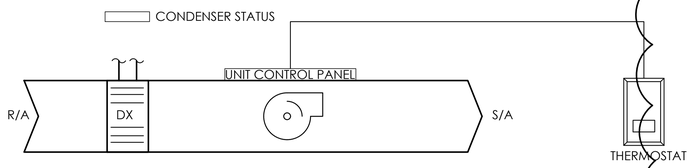
(TYPICAL OF ALL FANS OPERATED BY BAS CONTROLLER)



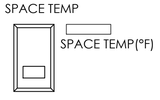
EXHAUST FAN CONTROLS:

A. EXHAUST FAN OPERATION SHALL BE DICTATED BY THE BAS SYSTEM UNDER A TIME OF DAY SCEHDULE UNLESS INTERLOCKED WITH AN AIR HANDLER SYSTEM IN WHICH CASE THE AIR HANDLER OF OPERATION SHALL DICTATE OPERATION. THE FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, AFTER THE DAMPER STATUS HAS PROVEN (IF APPLICABLE), UNLESS SHUTDOWN ON SAFETIES. THE BAS SHALL MONITOR THE FAN STATUS.

DUCTLESS MINISPLIT

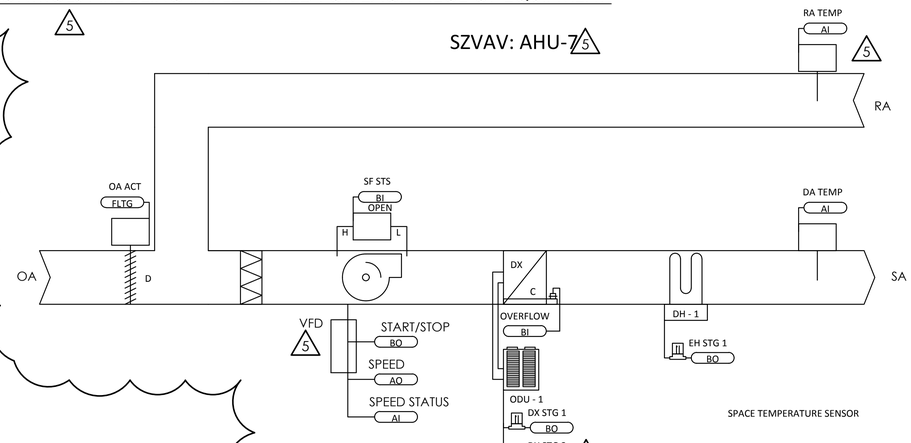


SEQUENCE OF OPERATIONS: COMPUTER ROOM MONITORING



A. SPACE TEMPERATURE MONITORING: THE BAS CONTROLLER SHALL MONITOR THE COMPUTER ROOM SPACE TEMPERATURE AND GENERATE ALARM IF THE SPACE TEMPERATURE GOES OUT ± 2°F FROM NORMAL OPERATING SET POINT INITIALLY AT 72° F (ADJ.) VIA BMS SYSTEM.
B. THE BAS CONTROLLER SHALL MONITOR THE STATUS OF THE CONDENSER.

SZVAV: AHU-7 5



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Occupied Mode:
During occupied periods the supply fan shall run continuously and the outside air damper shall open to maintain minimum ventilation requirements. The electric heating and DX COOLING SHALL STAGE TO MAINTAIN THE ACTIVE SPACE TEMPERATURE SETPOINT. 5

Optimal Start:
The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

Morning Warm-Up Mode:
During optimal start, if the space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating and supply fan. The outside air damper shall remain closed. When the space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

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DURING OCCUPIED MODE, THE SUPPLY FAN SHALL MODULATE LINEARLY TO MAINTAIN SPACE SETPOINT. 5

Condensate Overflow Monitoring:
If the condensate level reaches the trip point, a condensate overflow diagnostic shall be annunciated at the BAS. To prevent the condensate drain pan from overflowing and causing water damage to the building the fan shall be disabled and the DX cooling shall be disabled.

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MILNET ARCHITECTURAL SERVICES
AMERICAN INSTITUTE OF ARCHITECTS

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Texas Registered Engineering Firm - F10362
Project number: 18.2.17

11/07/18

STATE OF TEXAS
Wilford L. McGee III
121939
REGISTERED
ENGINEER

SHARYLAND WATER SUPPLY CORP.
NEW BUILDING
MISSION, TX

PROJECT NUMBER
217017

DATE
NOV 07, 2018

FINALS - 100%
3 ADDENDUM #3
4 ADDENDUM #4
5 ADDENDUM #5

SHEET NUMBER
M4.1