



Purchasing Division

ADDENDUM NO. 1

DATE: July 1, 2021
FROM: City of Grand Junction Purchasing Division
TO: All Interested Parties
RE: RTU Replacement Persigo WWTP IFB-4923-21-SH

Bidders responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following:

1. **Attached Drawings M1-1 and M1-3 are attached to reflect changes noted below. Photos and cutsheet excerpts have been added to the drawings.**
2. **Base Bid Clarification:**
AC-1
Remove existing Trane PCM Control Panel. Provide with standalone DDC Controller capable of controlling all the RTU's functionality requirements. Controller shall also modulate existing heating water control valve and energize the glycol coil pump upon a call for heating. Controller shall be provided with a BACnet card for future integration into a web based enable front end building automation system. It has been confirmed the existing and proposed AC-1 RTU through the base power and piping connections are in the same locations.
3. **Base Bid Clarification:**
OBAHU 1-1
Remove existing Johnson Controls panel. Provide with standalone DDC Controller capable of controlling all the RTU's functionality requirements. Controller shall also control operation of the three (3) existing thermostatically controlled zone dampers. Provide with components, accessories, and controls for demand control ventilation. Controller shall be provided with a BACnet card for future integration into a web based enabled front end building automation system.
4. **Add Alternate:**
DDC Control Notes
In addition to the tracer SC control panels provided with AC-1 and OBAHU 1-1 for functionality of each unit, Contractor shall provide and install a Trane Tracer SC+ building automation system using the tracer synchrony user interface. System shall be fully web-

based enabled and shall control and interface with all aspects of the new rooftop units AC-1 and OBAHU 1-1

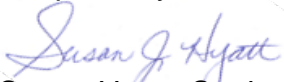
Note: Use Revised Price Bid Schedule attached to this Addendum.

5. Site Visit Sign-In Sheet is attached to this Addendum.

The original solicitation for the project referenced above is amended as noted.

All other conditions of subject remain the same.

Respectfully,



Susan Hyatt, Senior Buyer
City of Grand Junction, Colorado

DO NOT REPRODUCE THESE DRAWINGS AND SPECIFICATIONS WITHOUT THE EXPRESSED WRITTEN PERMISSION OF THE DESIGNER. THE DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF THE SERVICE AND SHALL REMAIN THE PROPERTY OF THE DESIGNER. WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANYONE ON ANY OTHER PROJECTS FOR ADDITION TO THE PROJECT BY OTHERS EXCEPT BY THE EXPRESSED WRITTEN PERMISSION OF THE DESIGNER.

GENERAL NOTES:

1. DRAWINGS HAVE BEEN CREATED FROM EXISTING PDF DRAWINGS AND ARE TO BE USED FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATIONS, ACCESS, AND INSTALLATION OF ALL COMPONENTS.
2. THE SYSTEM SHALL BE TESTED AND BALANCED BY A CERTIFIED TEST AND BALANCE CONTRACTOR.

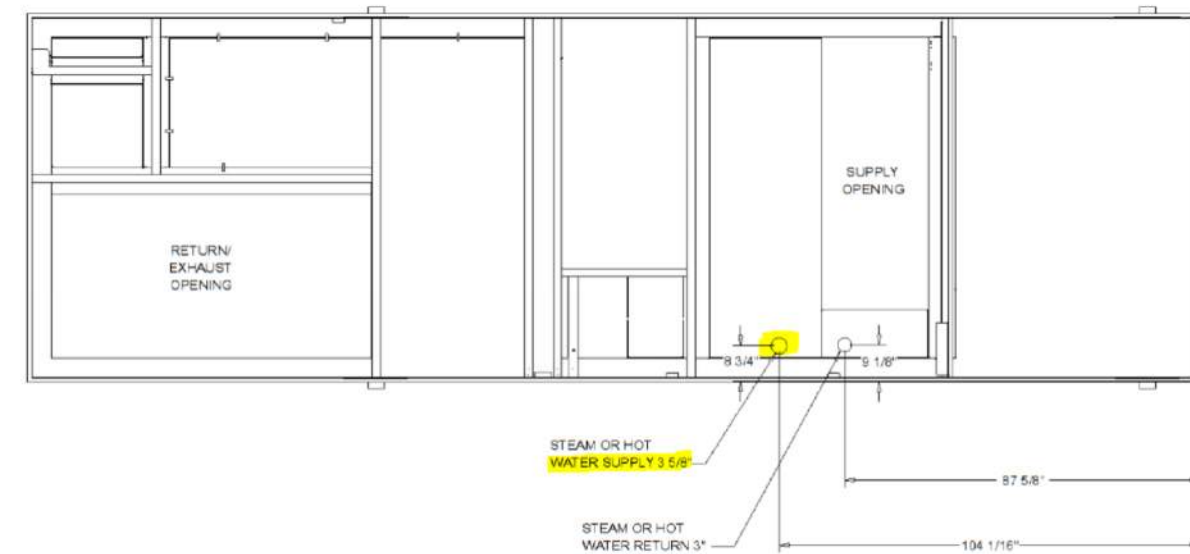
MECHANICAL KEYNOTES:

1. REMOVE THE EXISTING 20-TON INTELLIPAK AND REPLACE IN A ONE-FOR-ONE FASHION WITH NEW. INSTALL NEW RTU ON EXISTING ROOF CURB. CONNECT NEW SUPPLY DUCTWORK, RETURN DUCTWORK, HEATING WATER PIPING, AND CONTROLS TO EXISTING. FINAL FILL OF HEATING WATER SYSTEM SHALL BE 50% PROPYLENE GLYCOL TO MATCH EXISTING CONCENTRATION. CONTRACTOR SHALL VERIFY FIELD CONDITIONS INCLUDING EXACT LOCATIONS OF THE EXISTING SUPPLY DUCTWORK, RETURN DUCTWORK, AND HYDRONIC PIPING.
2. REMOVE THE EXISTING JOHNSON CONTROLS RTU AND ADAPTOR CURB AND REPLACE WITH A NEW TRANE 15-TON VOYAGER IN A ONE FOR ONE FASHION. THE LARGE EXISTING ROOF CURB SHALL REMAIN. PROVIDE AND INSTALL A NEW TRANSITION / ADAPTOR CURB BETWEEN THE EXISTING ROOF CURB AND THE NEW RTU. TRANSITION NEW SUPPLY AND RETURN DUCTWORK FROM THE CONNECTIONS AT THE NEW RTU TO THE EXISTING SUPPLY AND RETURN DUCTWORK IN THE CEILING SPACE BELOW. CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS AND DIMENSIONS PRIOR TO ORDERING THE NEW ROOF CURB OR FABRICATING ANY DUCTWORK. CONNECT EXISTING GAS LINE TO CONNECTION AT NEW RTU. MAINTAIN THE EXISTING GAS PRESSURE REGULATOR. NOTE THE NEW 15-TON UNIT HAS BEEN SIZED FOR A 2,000 SQUARE FOOT FUTURE EXPANSION. BALANCE THE NEW UNIT TO 3,400 CFM OF SUPPLY AIRFLOW.

ELECTRICAL KEYNOTES:

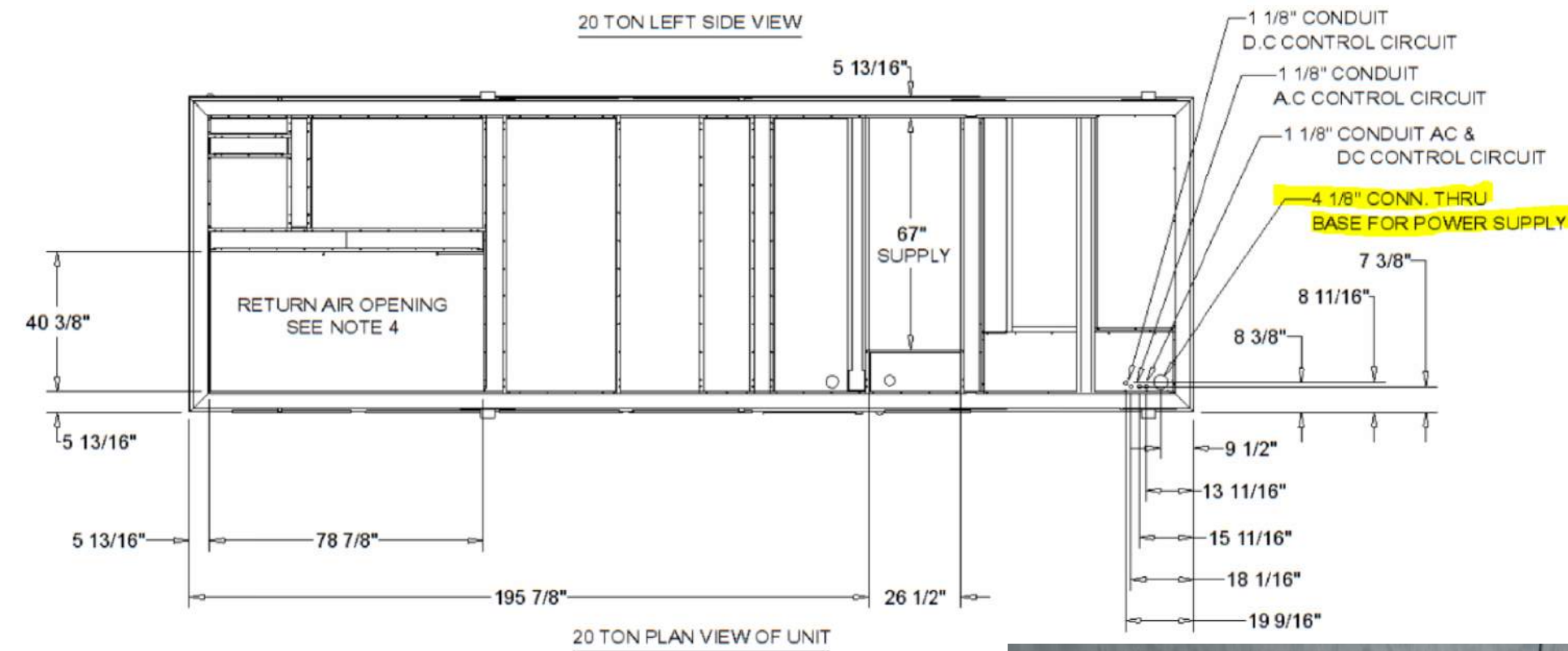
3. REMOVE THE EXISTING AC-1 70 AMP BREAKER. PROVIDE AND INSTALL A NEW 80 AMP, 480/360 BREAKER FOR THE NEW RTU. THE CONTRACTOR SHALL EXAMINE THE EXISTING WIRE TO VERIFY IT IS SUITABLE FOR REUSE.
4. REMOVE THE EXISTING OBAHU 1-1 25 AMP BREAKER. REMOVE THE EXISTING LINE VOLTAGE WIRING SERVING THE UNIT. PROVIDE AND INSTALL A NEW 45 AMP, 480/360 BREAKER FOR THE NEW RTU. PULL A NEW CIRCUIT TO THE NEW OBAHU 1-1 UNIT WITH 1" CONDUIT, 3#8 + 10 GND ALL COPPER.

NEW LABORATORY TRANE INTELLIPAK THROUGH THE BASE PIPING CONNECTIONS

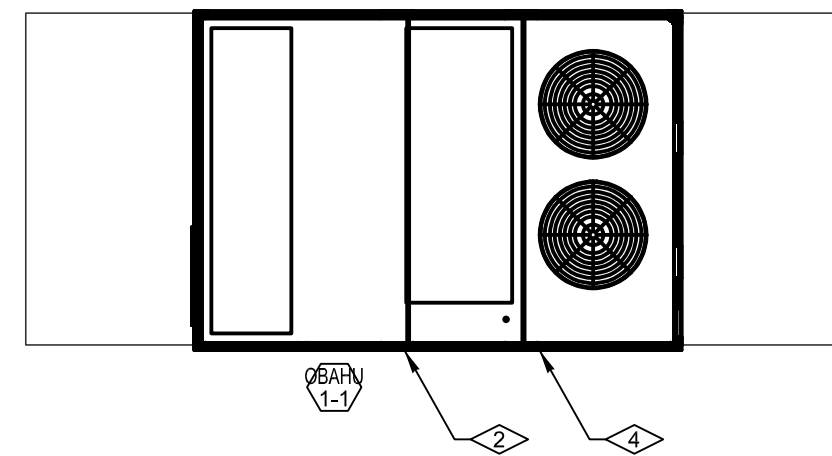


EXISTING LABORATORY TRANE INTELLIPAK THROUGH THE BASE PIPING CONNECTIONS

NEW LABORATORY TRANE INTELLIPAK THROUGH THE BASE POWER CONNECTION



EXISTING LABORATORY TRANE INTELLIPAK THROUGH THE BASE POWER CONNECTION



MECHANICAL - ROOF PLAN

SCALE: 1/4"=1'-0"

101 W 11th Street #109-C
Durango, CO 81301
Phone: (970) 422-7876



386 Indian Road
Grand Junction, CO 81501
Phone: (970) 241-8709

Bighorn Consulting Engineers, Inc.
Mechanical & Electrical Engineers

**PERSIGO TREATMENT PLANT
LABORATORY RTU REPLACEMENT**
2145 RIVER ROAD
GRAND JUNCTION, COLORADO

DATE: 06/02/2021
ISSUED FOR: 100% CONSTRUCTION DOCUMENTS
07/02/2021 ADDENDUM #1

DATE: 06/02/2021
JOB NO: 21-077
DRAWN BY: BCE
CHECKED BY: BCE
SCALE: AS SHOWN

SHEET NUMBER:
M1-1

DDC CONTROL NOTES BASE BID:

AC-1
REMOVE EXISTING TRANE PCM CONTROL PANEL. PROVIDE WITH STAND ALONE DDC CONTROLLER CAPABLE OF CONTROLLING ALL OF THE RTU'S FUNCTIONALITY REQUIREMENTS. CONTROLLER SHALL ALSO MODULATE THE EXISTING HEATING WATER CONTROL VALVE AND ENERGIZE THE GLYCOL COIL PUMP UPON A CALL FOR HEATING. CONTROLLER SHALL BE PROVIDED WITH A BACnet CARD FOR FUTURE INTEGRATION INTO A WEB BASED ENABLED FRONT END BUILDING AUTOMATION SYSTEM.

OBAHU 1-1
REMOVE EXISTING JOHNSON CONTROLS PANEL. PROVIDE WITH STAND ALONE DDC CONTROLLER CAPABLE OF CONTROLLING ALL OF THE RTU'S FUNCTIONALITY REQUIREMENTS. CONTROLLER SHALL ALSO CONTROL THE OPERATION OF THE (3) EXISTING THERMOSTATICALLY CONTROLLED ZONE DAMPERS. PROVIDE WITH THE COMPONENTS, ACCESSORIES, AND CONTROLS FOR DEMAND CONTROL VENTILATION. CONTROLLER SHALL BE PROVIDED WITH A BACnet CARD FOR FUTURE INTEGRATION INTO A WEB BASED ENABLED FRONT END BUILDING AUTOMATION SYSTEM.

DDC CONTROL NOTES ADD ALTERNATE #1:
IN ADDITION TO THE TRACER SC CONTROL PANELS PROVIDED WITH AC-1 AND OBAHU 1-1 TO PROVIDE FUNCTIONALITY OF EACH UNIT, THE CONTRACTOR SHALL PROVIDE AND INSTALL A TRANE TRACER SC+ BUILDING AUTOMATION SYSTEM USING THE TRACER SYNCHRONY USER INTERFACE. THE SYSTEM SHALL BE FULLY WEB-BASED ENABLED AND SHALL CONTROL AND INTERFACE WITH ALL ASPECTS OF THE NEW ROOFTOP UNITS AC-1 AND OBAHU 1-1.

LABORATORY ROOFTOP AIR HANDLING UNIT SCHEDULE																	
EQUIPMENT NO.	SERVICE	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	E.S.P. (IN. W.G.)	COOLING		HOT WATER HEATING			FILTERS	EVAP FAN (HP)	ELECTRICAL			UNIT WEIGHT (LBS.)	MANUFACTURER & MODEL	OPTIONS /ACCESSORIES
					NOM. (TONS)	EWTF / LWT (F)	FLUID FLOW (GPM)	OUTPUT (MBH)	V./PH./HZ.			MCA (A)	MOCP (A)				
AC-1	LABORATORY	6,200	1,500	1.5	20	180 / 160	46.5	443.15	MERV 8 PRE-FILTER MERV 14 FINAL FILTER	15	480/3/60	69.8	80	5,750	TRANE - SLHL204	NOTES - 1 & 2	

NOTE:
1. INSTALL ON EXISTING ROOF CURB. COIL GUARDS, 100% MODULATING ECONOMIZER, OUTSIDE AIR MEASURING STATION, POWERED EXHAUST FAN, FACTORY UNITARY CONTROLS, HOT WATER COIL (50% PROPYLENE GLYCOL), FUSED DISCONNECT SWITCH, SCCR RATING OF 65,000 AMPS, HIGH ALTITUDE KIT, AND POWERED CONVENIENCE OUTLET. PROVIDE RETURN DUCT SMOKE DETECTOR, VFD ON SUPPLY AND EXHAUST FAN. PROVIDE WITH HIGH EFFICIENCY VARIABLE SPEED COMPRESSOR.
2. PROVIDE AND INSTALL AQUA AERO CORROSION RESISTANT COATING ON INSIDE OF UNIT CASING, OUTSIDE OF UNIT CASING, HOT WATER COIL, DX COIL, AND CONDENSING SECTION.

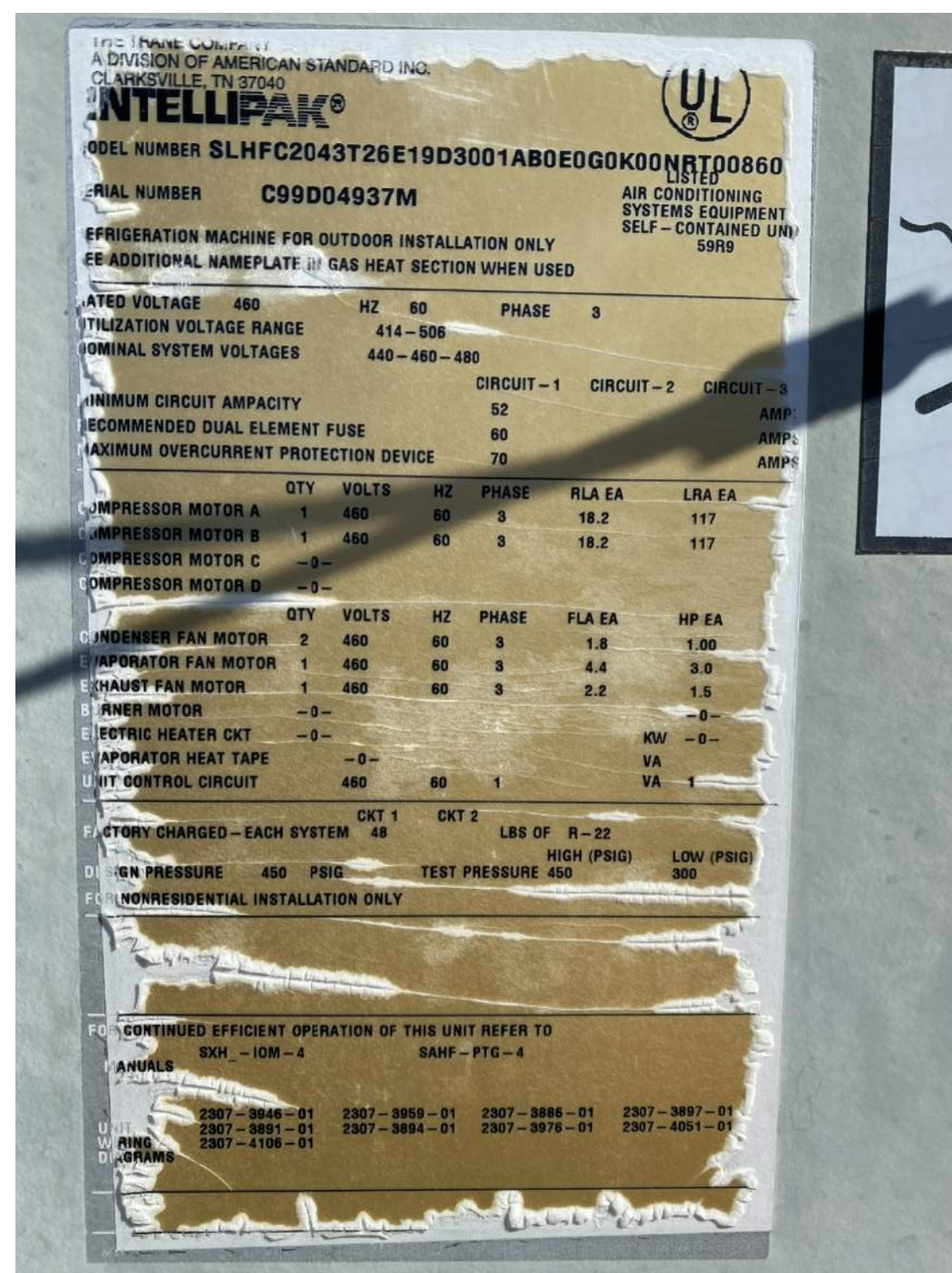
OPERATIONS BUILDING ROOFTOP AIR HANDLING UNIT SCHEDULE																	
EQUIPMENT NO.	SERVICE	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	E.S.P. (IN. W.G.)	COOLING		GAS FIRED HEATING			FILTERS	EVAP FAN (HP)	ELECTRICAL			UNIT WEIGHT (LBS.)	MANUFACTURER & MODEL	OPTIONS /ACCESSORIES
					NOM. (TONS)	EAT / LAT (F)	INPUT (MBH)	OUTPUT (MBH)	V./PH./HZ.			MCA (A)	MOCP (A)				
OBAHU 1-1	OPERATIONS BUILDING	5,500	1,375	1.5	15	70 / 116.9	350	284	MERV 8 PRE-FILTER MERV 13 FINAL FILTER	3	480/3/60	37	45	2,600	TRANE - YZD180F	NOTES - 1 & 2	

NOTE:
1. PROVIDE WITH ADAPTOR ROOF CURB TO MEETING EXISTING SA AND RA DUCT CONNECTIONS, COIL GUARDS, 100% MODULATING ECONOMIZER, OUTSIDE AIR MEASURING STATION, POWERED EXHAUST FAN, FACTORY UNITARY CONTROLS, FUSED DISCONNECT SWITCH, SCCR RATING OF 65,000 AMPS, HIGH ALTITUDE KIT, AND POWERED CONVENIENCE OUTLET. PROVIDE RETURN DUCT SMOKE DETECTOR, VFD ON SUPPLY AND EXHAUST FAN. THIS UNIT IS PART OF A VAV SYSTEM. PROVIDE WITH HIGH EFFICIENCY VARIABLE SPEED COMPRESSOR. PROVIDE WITH THE COMPONENTS, ACCESSORIES, AND CONTROLS FOR DEMAND CONTROL VENTILATION.
2. PROVIDE AND INSTALL AQUA AERO CORROSION RESISTANT COATING ON INSIDE OF UNIT CASING, OUTSIDE OF UNIT CASING, DX COIL, AND CONDENSING SECTION.

EXISTING LABORATORY TRANE INTELLIPAK



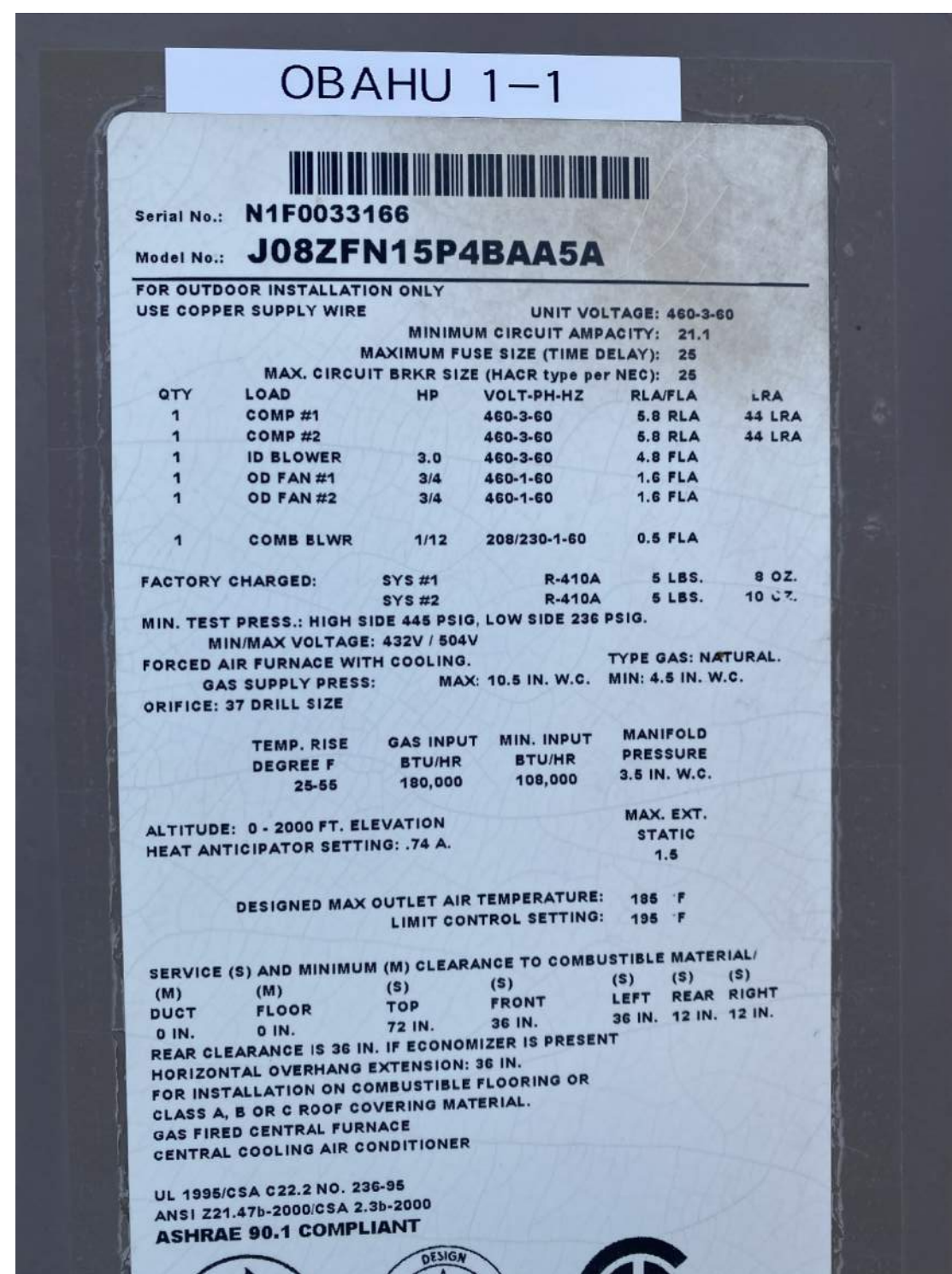
EXISTING LABORATORY TRANE INTELLIPAK



EXISTING OPERATIONS BUILDING JOHNSON CONTROLS SERIES 10



EXISTING OPERATIONS BUILDING JOHNSON CONTROLS SERIES 10



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101 W 11th Street #109-C
Durango, CO 81301
Phone: (970) 422-7676
386 Indian Road
Grand Junction, CO 81501
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Bighorn Consulting Engineers, Inc.
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PERSIGO TREATMENT PLANT
LABORATORY RTU REPLACEMENT
2145 RIVER ROAD
GRAND JUNCTION, COLORADO

DATE:	ISSUED FOR:
06/02/2021	100% CONSTRUCTION DOCUMENTS
07/02/2021	ADDENDUM #1

DATE:	06/02/2021
JOB NO.:	21-077
DRAWN BY:	BCE
CHECKED BY:	BCE
SCALE:	AS SHOWN
SHEET NUMBER:	M1-3

Solicitation Name:	RTU Replacement Persigo WWTP
Solicitation #:	IFB-4923-21-SH
Date:	7/11/2021
Time:	8:00 AM

SIGN-IN SHEET



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3	Phillip McCreanor	White Star Electric	(970) 356-9419	phil@whitostarelectric.com
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