

ADDENDUM NO. 2



studio

TO: All Plan Holders

FROM: Studio Kremer Architects

DATE: September 25, 2020

PROJECT: **OVEC office interior renovation and storage addition**
ska# 2019-51

This Addendum supersedes and supplements all portions of the Construction Documents with which it conflicts. Acknowledgement of this Addendum shall be noted on the Form of Proposal.

Any revisions to the Drawings indicated on the attached architectural sketches (**ASK's**) will be clouded.

Addendum No.2 makes the following modifications and clarifications to the Construction Drawings and Specifications:

Architectural Items:

Item No.1:

While some specification data has been included in both the drawings and by addendum no. 1 by way of Basis of Design products, equal alternates will be accepted upon review during construction.

Item No.2:

- Sliding closet doors numbered 141 & 142 shall be a pair of 3070 doors and NOT the 3'-0" wide overall dimension as shown in the door types on sheet A4.02.
- Add Alternate Restroom door 141AA shall be a type A, single leaf door per the door types. This door type is mislabeled in the door schedule in the bid documents. Door shall have restroom privacy lockset.

MEP ITEMS:

Item No.2:

See attached specification information pertaining to the HVAC design. Number 8, "Ventilation fan control" has been added to the specification.

Attachments: Mechanical specifications

END OF ADDENDUM NO.2

(referenced attachments follow)

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1 INSULATION

A. INSULATION: FLAME/SMOKE RATINGS: PROVIDE INSULATION (INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS AND ADHESIVES) WITH FLAME-SPREAD RATING OF 25 OR LESS, AND SMOKE-DEVELOPED RATING OF 50 OR LESS, AS TESTED BY ANSI/ASTM E 84 (NFPA 255)

B. ALL DOMESTIC WATER PIPING SHALL BE INSULATED. THE INSULATION SHALL BE A HEAVY DENSITY, PIPE INSULATION WITH A K FACTOR .22 AT 75F MEAN TEMPERATURE. THE INSULATION SHALL BE WRAPPED WITH A VAPOR BARRIER JACKET WITH SELF-SEALING LAP, EQUAL TO CERTAIN-TEED, MANSVILLE, OWENS-CORNING OR ARMSTRONG. COVER FITTINGS WITH ZESTON OR EQUAL PREMOLDED INSULATING FITTINGS. INSULATION SHALL BE INSTALLED IN A PROFESSIONAL, NEAT APPEARING MANNER; POOR WORKMANSHIP SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. APPLICATION THICKNESSES SHALL BE AS FOLLOWS: DOMESTIC COLD WATER PIPING: 1/2" THICK; DOMESTIC HOT WATER PIPING: 1" THICK.

C. LAVATORY P-TRAPS SHALL BE INSULATED WITH 1/2" PRE-FORMED FIBERGLASS "TRAP-WRAP".

D. INTERIOR HVAC CONDENSATE PIPING TO BE INSULATED WITH 3/4" IMCOLOCK OR 1/2" FIBERGLASS WITH AP JACKET.

E. REFRIGERANT PIPING SHALL BE INSULATED WITH 1" THICK IMCOLOCK FLEXIBLE POLYOLEFIN FOAM PIPE INSULATION. INSULATION SHALL BEAR U.L. LISTING FOR A 25/50 FLAME SMOKE SPREAD, AND SHALL BE RATED FOR DUTY IN RETURN AIR PLENUMS. PRODUCT SHALL BE STABILIZED AGAINST ULTRA-VIOLET LIGHT DEGRADATION. EXTEND PIPING INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS AND SIMILAR PIPING PENETRATIONS, EXCEPT WHERE OTHERWISE INDICATED.

F. INTERIOR SUPPLY AND RETURN AIR DUCT: FLEXIBLE FIBERGLASS DUCTWORK INSULATION: FS HH-I-558, FORM B, TYPE I.

G. INSULATION TO HAVE A DENSITY OF 1.0 PCF DENSITY AND SHALL HAVE A "K" VALUE OF 0.28 MAXIMUM AT 75 DEG. F.

H. INSULATE SUPPLY AND OUTSIDE AIR DUCTWORK WITH 2" THICK, 1.0 PCF FLEXIBLE INSULATION WRAP. DO NOT USE DUCT LINER.

I. EXTEND PIPING INSULATION WITHOUT INTERRUPTION THROUGH WALL, FLOORS AND SIMILAR PIPING PENETRATIONS, EXCEPT WHERE OTHERWISE NOTED.

2 PLUMBING PIPING MATERIALS & INSTALLATION:

A. DOMESTIC WATER: ALL DOMESTIC WATER PIPING INSTALLED BELOW BASE SLAB, OR BELOW GRADE, SHALL BE TYPE "K" SOFT TEMPTER TUBING WITH FLARED COPPER FITTINGS AND CONNECTIONS, OR TYPE "K" HARD TEMPER COPPER TUBING WITH CONVENTIONAL WROUGHT COPPER FITTINGS AND SILVER SOLDER (SILFOS) JOINTS. CARE SHALL BE TAKEN TO INSTALL AS FEW UNDERGROUND COPPER PIPING JOINTS AS IS POSSIBLE. ALL DOMESTIC WATER PIPING INSTALLED BELOW GRADE SHALL HAVE 36" MINIMUM COVER.

B. ALL PIPING FOR HOT AND COLD WATER ABOVE THE SLAB, WITHIN THE BUILDING, SHALL BE TYPE "L" HARD TEMPER COPPER TUBE WITH WROUGHT COPPER FITTINGS AND SOLDERED CONNECTIONS MADE UP WITH LEAD FREE SOLDER EQUAL IN PERFORMANCE TO 95/5 SOLDER.

C. SOIL AND WASTE: ALL SOIL AND WASTE PIPING TO BE SCHEDULE 40 PVC WITH SOLVENT JOINED FITTINGS. ALL VENT PIPING CONCEALED IN WALLS MAY BE SCHEDULE 40 PVC.

D. PIPING STERILIZATION: STERILIZE THE HOT AND COLD WATER PIPING SYSTEM IN ACCORDANCE WITH CODE AND FLUSH COMPLETELY AFTERWARDS.

3 TESTING

A. PRESSURE TESTING: ALL WATER PIPING SHALL BE TESTED OVER NORMAL STATIC WATER PRESSURE. ALL WASTE PIPING SHALL BE TESTED WITH ALL STACKS FILLED WITH WATER, AND ANY OTHER TESTS REQUIRED BY THE PLUMBING INSPECTOR. ALL PIPING SHALL BE TESTED BEFORE ANY INSULATION INSTALLED. ALL LINES, JOINTS, FLANGES, VALVE STEMS, ETC., SHALL BE LEAK TIGHT.

4 DUCT INSTALLATION

A. DUCTWORK QUALITY ASSURANCE: COMPLY WITH LATEST EDITION OF SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA) HVAC DUCT CONSTRUCTION STANDARDS. COMPLY WITH APPLICABLE PROVISIONS OF ANSI/NFPA 90A "AIR CONDITIONING AND VENTILATING SYSTEMS", PERTAINING TO INSTALLATION OF DUCT ACCESSORIES.

5 TESTING, ADJUSTING AND BALANCING

A. EXTENT OF TESTING, ADJUSTING, AND BALANCING WORK IS INDICATED BY REQUIREMENTS OF THIS SECTION, AND ALSO BY DRAWINGS AND SCHEDULES, AND IS DEFINED TO INCLUDE, BUT IS NOT NECESSARILY LIMITED TO, AIR DISTRIBUTION SYSTEMS,

AND ASSOCIATED EQUIPMENT AND APPARATUS OF MECHANICAL WORK. THE WORK CONSISTS OF PRESSURE TESTING, SETTING SPEED AND VOLUME (FLOW) ADJUSTING FACILITIES PROVIDED FOR SYSTEMS, RECORDING DATA, CONDUCTING TESTS, PREPARING AND SUBMITTING REPORTS, AND RECOMMENDING MODIFICATIONS TO WORK AS REQUIRED BY CONTRACT DOCUMENTS.

B. CONTRACTOR SHALL EMPLOY THE SERVICES OF A TESTING AND BALANCING FIRM TO TAKE TEST READINGS ON ALL FANS AND UNITS, AND TO ADJUST FAN SPEEDS TO DELIVER SPECIFIED AMOUNTS OF AIR. TESTING AND BALANCING REPORT LOGS SHALL BE MADE SHOWING ALL AIR SUPPLY QUANTITIES, FAN AND UNIT TEST READINGS, ETC.; (3) THREE COPIES OF THE LOG SHALL BE SUBMITTED TO THE ENGINEER BEFORE FINAL INSPECTION OF THE PROJECT AND IS NECESSARY FOR FINAL PAYMENT. LOG SHALL BE LISTED BY UNIT, AND SHALL ADDITIONALLY INDICATE UNIT HORSEPOWER, MOTOR NAMEPLATE AMPS, AND ACTUAL AMPS DRAW AFTER ALL ADJUSTMENTS ARE COMPLETED. ALSO EACH ROOM SHALL BE LISTED WITH TOTAL EXHAUST, SUPPLY AND RETURN AIR QUANTITIES LISTED.

C. PATCH HOLES IN INSULATION, DUCTWORK AND HOUSINGS, WHICH HAVE BEEN CUT OR DRILLED FOR TEST PURPOSES, IN MANNER RECOMMENDED BY ORIGINAL INSTALLER.

D. PREPARE A REPORT OF RECOMMENDATION FOR CORRECTING UNSATISFACTORY MECHANICAL PERFORMANCES WHEN SYSTEM CANNOT BE SUCCESSFULLY BALANCED; INCLUDING, WHERE NECESSARY, MODIFICATIONS WHICH EXCEED REQUIREMENTS OF CONTRACT DOCUMENTS FOR MECHANICAL WORK.

E. RETEST, ADJUST AND BALANCE SYSTEMS SUBSEQUENT TO SIGNIFICANT SYSTEM MODIFICATIONS, AND RESUBMIT TEST RESULTS.

6 REFRIGERATION PIPING SYSTEMS

A. BRAZING: COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI B31.5 AND ANSI B31-5A, "REFRIGERATION PIPING", PERTAINING TO BRAZING OF REFRIGERATION PIPING FOR SHOP AND PROJECT SITE LOCATIONS.

B. REFRIGERANT PIPING LEAK TEST: PRIOR TO INITIAL OPERATION, CLEAN AND TEST REFRIGERANT PIPING IN ACCORDANCE WITH ANSI B31.5 AND ANSI B31.5A, "REFRIGERATION PIPING". PERFORM INITIAL TEST WITH DRY NITROGEN, USING SOAP SOLUTION TO TEST ALL JOINTS. PERFORM FINAL TEST WITH 27" VACUUM, AND THEN 200 PSI USING HALIDE TORCH. SYSTEM MUST BE ENTIRELY LEAK FREE ACR COPPER TUBE.

7 PACKAGE ROOFTOP AIR CONDITIONING UNITS (CONSTANT VOLUME ONLY)

A. TEMPERATURE CONTROLS CONTRACTOR TO PROVIDE PROGRAMMABLE AUTO-CHANGEOVER THERMOSTATS FOR EACH CONSTANT VOLUME ROOFTOP UNIT (EXISTING,

NEW OR PROVIDED BY LANDLORD). THERMOSTATS SHALL BE PROVIDED WITH HEAT-COOL-OFF SWITCH AND AUTO/ON FAN CONTROL. THERMOSTAT SHALL HAVE SEVEN DAY PROGRAMMING CAPABILITIES FOR NIGHT SETBACK WITH OVER-RIDE CAPABILITY. SETBACK CAPABILITY SHALL NOT BE SET TO DEVIATE ROOM TEMPERATURE BEYOND 8 DEGREES FAHRENHEIT FROM NORMAL SETPOINT.

8 VENTILATION FAN CONTROL

A. PROVIDE TIME CLOCK TO CONTROL THE OCCUPIED/UNOCCUPIED SCHEDULING FOR VENTILATION FANS. CONTRACTOR SHALL UTILIZE A 7-DAY/24-HOUR PROGRAMMABLE TIME CLOCK CONTROLLER WITH THE REQUISITE NUMBER OF RELAY CHANNELS. OCCUPIED-UNOCCUPIED PERIODS OF OPERATION SHALL BE PROGRAMMABLE. CONTRACTOR SHALL SET UP THE SCHEDULES AS DIRECTED BY THE OWNERS PERSONNEL.