

To: All Plan Holders and Prospective Bidders

Re: Des Moines Independent Community School District
Central Campus HVAC Upgrades
1800 Grand Avenue
Des Moines, Iowa 50309

ADDENDUM #1

February 5th, 2021

This addendum incorporates the following changes to the rebid documents that were issued on January 26, 2021. To be considered, bidders shall indicate on the Bid Form that this communication was received and that all changes were included in their bid total. It is the responsibility of the contractor to contact the owner's representative prior to bid date to verify the issuing of any and all clarifying addenda.

These items shall supersede all statements to the contrary in the drawings and project manual (specifications) and shall take precedence over those documents. These items are not listed in any particular order and are intended to add, delete, change and/or clarify the original scope of work.

Architectural Addendum	2 pages
<u>Supplemental Detail ASD01 and ASD02</u>	<u>2 pages</u>
Total	4 pages

Please feel free to contact our office via phone at 515-556-6584 or email at jordan@studiomelee.com if you have any questions or comments concerning this addendum or if you require additional information/clarification.

Respectfully submitted,



Jordan Collins, AIA, LEEDap

Architectural Addendum:

Item #A1: **REVISION – MECHANICAL SCREENING LENGTH**
On Sheet A100 an additional section of louvered mechanical screening is added to cover the mechanical equipment.

Supplemental Drawing ASD01 is included at the end of this addendum and is intended to replace the area shown on sheet A100.

Item #A2: REVISION – PRE-FABRICATED STEEL ROOF STAIR

On Sheet A100 the pre-fabricated steel stair is replaced with a pre-fabricated steel ladder.

Supplemental Drawing ASD02 is included at the end of this addendum and is intended to replace the area shown on sheet A100.

Item #A3: REVISION – SPECIFICATION SECTION 055000 METAL FABRICATIONS

At specification section 055000 delete the following text:

2.7 PRE-FABRICATED METAL STAIRS

- A. Provide Pre-Fabricated extra heavy duty metal stairway with integral 36" high handrails and 42" guardrails to meet OSHA 2017 standards. Open risers with heavy duty bar grating stair treads.
- B. Basis of Design Manufacturer: FS Industries.
- C. Finish: hot-dipped galvanized finish for all components.
- D. Factory welded handrails of 1 ½" x 11 Ga. Square tubing.
- E. 10" structural channel stringers.

And replace with the following text:

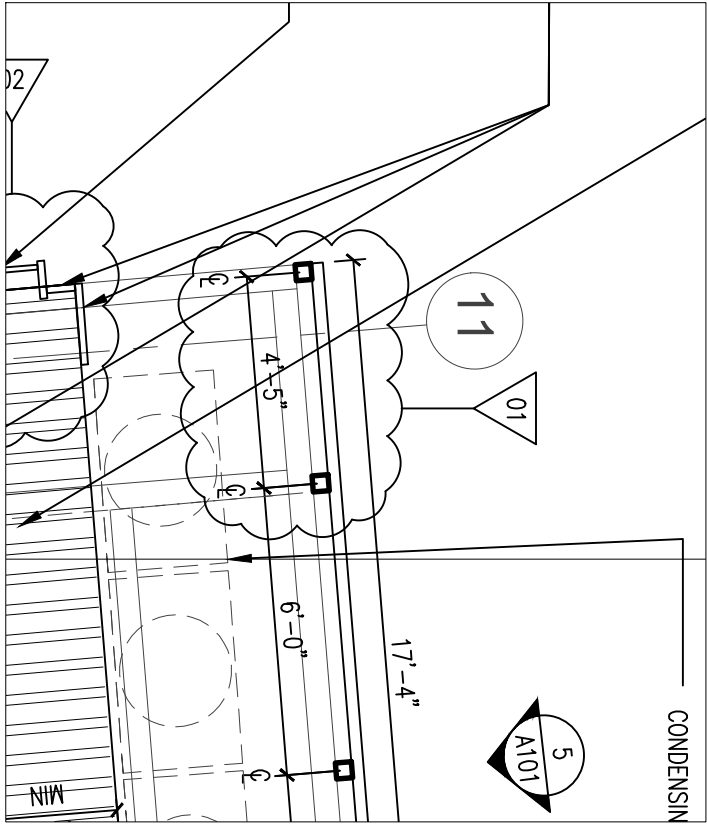
2.7 METAL LADDERS (EQUIPMENT PLATFORM)**A. General:**

- 1. Comply with ANSI A14.3 unless otherwise indicated.

B. Steel Ladders:

- 1. Siderails: Continuous, 1/2-by-2-1/2-inch steel flat bars, with eased edges.
- 2. Rungs: 1-inch-diameter steel bars.
- 3. Fit rungs in centerline of siderails; plug-weld and grind smooth on outer rail faces.
- 4. Provide nonslip surfaces on top of each rung, either by coating rung with aluminum-oxide granules set in epoxy-resin adhesive or by using a type of manufactured rung filled with aluminum-oxide grout.
- 5. Support each ladder at top and bottom and not more than 60 inches o.c. with welded or bolted steel brackets.
- 6. Prime ladders, including brackets and fasteners, with zinc-rich primer.
- 7. Galvanize exterior ladders, including brackets and fasteners.

End of Architectural Addendum



REPLACE AREA ON SHEET A100



STUDIO MELEE
 1312 LOCUST STREET, SUITE 100Z
 DES MOINES, IOWA 50309

DMPS - CENTRAL CAMPUS

1800 GRAND AVENUE
 DES MOINES, IOWA 50309

H V A C
 RENOVATIONS

PRINT DATE:
 02-05-2021

ARCHITECTURAL SUPPLEMENTAL DRAWING

ASD 01



STUDIO MELEE
 1312 LOCUST STREET, SUITE 100Z
 DES MOINES, IOWA 50309

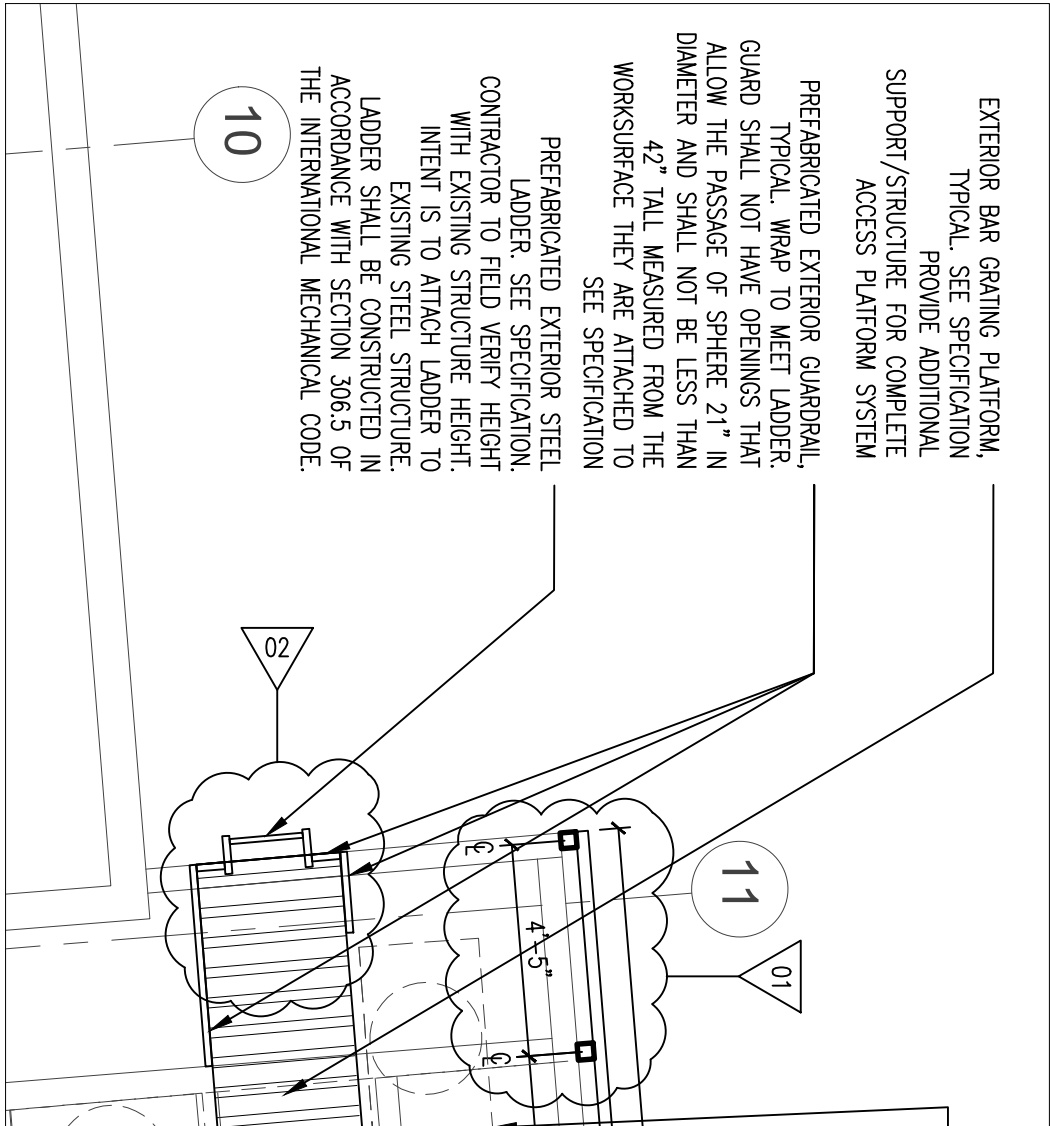
DMPS - CENTRAL CAMPUS

1800 GRAND AVENUE
 DES MOINES, IOWA 50309

H V A C
 RENOVATIONS

PRINT DATE:
 02-05-2021

ARCHITECTURAL SUPPLEMENTAL DRAWING



REPLACE AREA ON SHEET A100

ASD 02

Des Moines Independent Community School District
Central Campus HVAC Upgrades
Addendum #1
February 5th, 2021

This addendum is issued to modify, clarify, or amend the original Project Drawings and Specifications and is hereby made part of the Contract Documents. The Contractor shall be responsible for incorporating items in this Addendum to the Work. The following shall take precedence over anything to the contrary in the Drawings or Specifications.

Mechanical Specifications:

1. Section 23 05 93 – TESTING, ADJUSTING AND BALANCING OF SYSTEMS:
 - a. **MODIFY** 1.6.A.7 to read: Contractor shall clean all NEW ductwork and coils, ensuring that they are free of loose insulation and construction debris.
2. Section 23 82 00 – Convection Heating and Cooling units
 - a. **ADD** section in its entirety per attached specification section.
3. Section 23 82 39 – Cabinet Unit Heaters
 - a. **DELETE** Section in its entirety.

Mechanical Drawings:

1. Drawing M 000 Mechanical Symbols and Schedules Sheet:
 - a. **MODIFY** AIR HANDLING UNIT (AHU) SCHEDULE and associated notes per revised sheet.
 - b. **MODIFY** AHU VRF CONDENSING UNIT SCHEDULE and associated notes per revised sheet.
 - c. Refer to attached full size sheet M 000.

Mechanical – Approved Manufacturers:

The following shall be added to specifications as approved manufacturers:

<u>Reference</u>	<u>Equipment Type</u>	<u>Manufacturer</u>
23 34 23	Standalone Fans	JencoFan

Electrical Drawings:

1. Drawing E100 - Detail #5 - ELEC 1332
 - a. **CLARIFY** Note that diagrammatic conduit routing for panel BC-4 feeder is misdrawn. Drawing line should extend to panel DPL1 as clarified by other notes.

2. Drawing E102 - Detail #2 – Penthouse
 - a. **CLARIFY** Disconnect symbols shown do not indicate exact desired install locations for equipment disconnect. Group disconnects associated with the air cooled condensing units in a workmanlike manner in a location accessible from the planned catwalk and maintain code compliant working clearance for all equipment.

End of Mechanical and Electrical Addendum.

SECTION 23 82 00 - CONVECTION HEATING AND COOLING UNITS

PART 1 GENERAL

1.1. SECTION INCLUDES

- A. Electric cabinet unit heaters.
- B. Electric Resistance Air Coils.

1.2. RELATED REQUIREMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.3. REFERENCE STANDARDS

- A. AHRI Directory of Certified Product Performance - Air-Conditioning, Heating, and Refrigeration Institute (AHRI) Current Edition.
- B. AHRI 410 - Forced-Circulation Air-Cooling and Air-Heating Coils 2001, with Addendum (2011).
- C. ASHRAE (HVACA) - ASHRAE Handbook - HVAC Applications Most Recent Edition Cited by Referring Code or Reference Standard.
- D. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- E. NFPA 90A - Standard for the Installation of Air-Conditioning and Ventilating Systems 2018.
- F. SMACNA (DCS) - HVAC Duct Construction Standards Metal and Flexible 2005 (Revised 2009).

1.4. SUBMITTALS

- A. Refer to 01 specification sections for Project submittal procedures.
- B. Shop Drawings:
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each air coil.
 - 2. Include rated capacities, operating characteristics, and pressure drops for each air coil.
- C. Certificates: Certify that air coil capacities, pressure drops, and selection procedures meet or exceed specified requirements or coils are tested and rated in accordance with AHRI 410.

- D. Operation and Maintenance Data: Include manufacturer's descriptive literature, operating instructions, installation instructions, maintenance and repair data, and parts listings.
- E. Warranty: Submit manufacturer's warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.5. QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.

1.6. WARRANTY

- A. See 01 Specification sections, for additional warranty requirements.
- B. Provide 5 year manufacturer's warranty for the air Coils.

PART 2 PRODUCTS

2.1. ELECTRIC CABINET UNIT HEATERS

- A. Manufacturers:
 - 1. Indeeco
 - 2. Qmark
 - 3. Berko
 - 4. Reznor
 - 5. Markel
 - 6. Redd-I
 - 7. Heatrex
 - 8. Engineer Approved Equal
- B. Provide products listed, classified, and labeled by Underwriters Laboratories Inc. (UL), Intertek (ETL), or testing firm acceptable to Authority Having Jurisdiction as suitable for the purpose indicated.
- C. Heating Elements: Provide open-wire or finned tubular.
- D. Cabinet: Minimum 18 gauge, 0.0478 inch (1.21 mm) thick steel front panel with exposed corners and edges rounded, easily removed panels, glass fiber insulation and integral air outlet, and inlet grilles.
- E. Finish:
 - 1. Factory applied, painted finish.

2. Color: As selected from color chart.
 - F. Fans: Centrifugal forward-curved double-width wheels, statically and dynamically balanced, direct driven.
 - G. Motor: Tap wound multiple speed permanent split capacitor with sleeve bearings, resiliently mounted.
 - H. Controls:
 1. Control relays.
 - I. Filter: Easily removed, 1 inch (25 mm) thick glass fiber throw-away type, located to filter air before coil.
 - J. Electrical Characteristics:
 1. Refer to equipment schedules on mechanical schedules sheet for performance information.
- 2.2. AIR COILS
- A. Manufacturers:
 1. Electric Coils:
 - a. Indeeco
 - b. Brasch Manufacturing Company
 - c. TPI Corporation
 - d. Neptronic
 - B. Electric Coils:
 1. Provide products listed, classified, and labeled by Underwriters Laboratories Inc. (UL), Intertek (ETL), or testing firm acceptable to Authority Having Jurisdiction as suitable for the purpose indicated.
 2. Assembly: Terminal control box with hinged or screwed access cover, heating element, casing, and controls.
 3. Heating Elements: Coiled resistance wire of 80 percent nickel and 20 percent chromium; surrounded by compacted magnesium-oxide powder in tubular-steel sheath; with spiral-wound, copper-plated, steel fins continuously brazed to sheath.
 4. Frame: Heavy gauge galvanized or corrosion resistant steel.
 5. Standard Built-In Components:
 - a. Interlock disconnect switch.

- b. Magnetic Contactors.
 - c. Fused transformers.
 - d. Airflow switch.
 - e. Circuit fuses.
 - f. Load and control terminal blocks.
6. High-Temperature Coil Protection: Disk-type, automatically reset, thermal-cutout, safety device; serviceable through terminal box without removing heater from Air handling unit casing.
- a. Secondary Protection: Load-carrying, manually reset or manually replaceable, thermal cutouts; factory wired in series with each heater stage.
7. Electrical Characteristics:
- a. Refer to Schedules on Mechanical plans for electrical information.

PART 3 EXECUTION

3.1. EXAMINATION

- A. Examine Air Handling unit casing to receive air coils for compliance with requirements for installation tolerances and other conditions affecting coil performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2. INSTALLATION

- A. Install in accordance with manufacturer's recommendations.
- B. Do not damage equipment or finishes.
- C. Cabinet Unit Heaters:
 1. Install as indicated.
 2. Coordinate to ensure correct recess size for recessed units.
- D. Air Coils:
 1. Install within unit casing in accordance with SMACNA (DCS).
 - a. Provide airtight seals between coil and casing.
 2. Install all coils level and plumb.
 3. Clean coils using materials and methods recommended in writing by manufacturers, and clean inside of casings and enclosures to remove dust

and debris.

3.3. FIELD QUALITY CONTROL

- A. Refer to 01 Specifications Sections for additional requirements.
- B. Perform the following tests and inspections:
 - 1. Operational Test: After electrical circuitry has been energized, operate electric coils to confirm proper unit operation.
 - 2. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- C. Prepare test and inspection reports.

END OF SECTION