OPS MCMILLAN ROOF TOP HVAC UNITS REPLACEMENT
OMAHA, NEBRASKA
CONSTRUCTION DOCUMENTS: 06-05-2024

PROJECT LOCATION

MECHANICAL/ELECTRICAL

COORDINATING PROFESSIONAL

AES
ADVANCED ENGINEERING SYSTEMS

www.a-e-sys.com

CERTIFICATE OF AUTHORIZATION #: CA1800

ALL CONTRACTORS AND SUB-CONTRACTORS SHALL READ AND REVIEW ALL SHEETS FOR THE EXTENTS OF THEIR RESPECTIVE WORK. EACH CONTRACTORS WORK MAY SHOW UP ON SHEETS OTHER THAN THEIR NAMED SHEETS. THIS PROJECT CONTAINS BOOK SPECIFICATIONS. ALL CONTRACTORS ARE RESPONSIBLE FOR MEETING ALL REQUIREMENT OUTLINED.
1. REMOVE EXISTING ROOF TOP UNIT. DISCONNECT EXISTING ASSOCIATED DUCT, ELECTRICAL, CONTROLS AND GAS PIPING AND TEMPORARILY CAP FOR RE-CONNECTING TO NEW UNIT IN PLACE. REWORK EXISTING DUCTWORK AND GAS PIPING AS REQUIRED FOR CONNECTIONS TO NEW EQUIPMENT.

2. REMOVE AND REINSTALL ALL CONTROL WIRING, CONDUIT, JUNCTION BOXES AS REQUIRED FOR INSTALLATION OF NEW UNIT.

3. REMOVE BASE RAILS AND REINSTALL TO THE WEST AS REQUIRED FOR NEW LOCATION. FLASH ROOF AS REQUIRED AND MAINTAIN ANY ROOF WARRANTIES.

RTU(D) EF(E) 46X26 SA(E) RTU(D) EF(E) 36X36 RA(E) 1"G(E) 2,191 LBS

EXISTING LOCATION OF ELECTRICAL AND CONTROL CONDUIT PENETRATION TO ROOF.

EXISTING CURB RAILS TO REMAIN.

EXISTING METAL DUCT ENCLOSURE TO REMAIN.

EXISTING LOCATION OF ELECTRICAL AND CONTROL CONDUIT PENETRATION TO ROOF.

1"HD(E) FLUE (E)

DATE: 06-05-24

ADVANCED ENGINEERING SYSTEMS

MD1.1
1. Install new roof top unit on existing curb supports, provide additional supports as required. Contractor shall patch and repair roof as required. Re-connect duct and gas piping. Field verify and transition as needed to reconnect to new unit.

2. Provide union, 3 inch minimum dirt leg, shut-off valve and pressure regulator in gas piping at connection to equipment. Vent pressure regulator to outside if required. Provide a union on both sides of regulator. Regulator must be installed in horizontal position down stream of dirt leg.

3. Reinstall rails to the west as required for new location. Flash roof as required and maintain any roof warranties.

4. Structural engineer Jeffrey S. Payne, P.E. with Intrastucture has reviewed for specified units on existing rails in existing locations with no structural modifications. Any alternate units shall be no heavier than the specified units. East unit shall not be moved north or south but is allowed to move west.

**PIECE MATERIAL AND INSULATION**

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**PIECE MATERIAL AND INSULATION SCHEDULE**

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**PIECE MATERIAL AND INSULATION GENERAL NOTES**

- All insulation shall be in conformance with the latest edition of the International Building Code. For cold water systems, insulation shall be in conformance with the latest edition of the International Plumbing Code. For hot water systems, insulation shall be in conformance with the latest edition of the International Mechanical Code.
- All insulation shall be installed in accordance with the manufacturer's recommendations.
- All insulation shall be installed in accordance with the latest edition of the National Fire Protection Association (NFPA) 70-2021 (NEC).
1. CONTRACTOR TO EVALUATE EXISTING CABLES AND CONDUIT FOR REUSE.

2. REMOVE AND REINSTALL ALL POWER WIRING, CONDUIT, AND JUNCTION BOXES TO EXHAUST FAN AS REQUIRED FOR NEW UNIT.

ED1.1
1. CONTRACTOR TO TERMINATE EXISTING CABLES TO NEW DISCONNECT AND NEW RTU, FOLLOWING MANUFACTURER'S REQUIREMENTS. FIELD VERIFY AND MODIFY OR REPLACE CONDUIT, AND CABLES AS NEEDED TO POWER NEW RTU. COORDINATE WITH MECHANICAL. POWER NEW RECEPTACLE ON NEW UNIT TO SAME CONDUIT AS OLD. VERIFY BREAKER SIZE AND LOCATION.

2. TYPICAL DUCT DETECTOR AND SHUT DOWN RELAY PROVIDED INTEGRAL WITH THE MECHANICAL UNIT. FINAL TERMINATION BY ELECTRICAL CONTRACTOR. CONNECT TO FIRE ALARM SYSTEM. INTERLOCK DUCT DETECTOR WITH EQUIPMENT SO EQUIPMENT SHUTS DOWN UPON ACTIVATION. DUCT DETECTOR SHALL BE LOCATED IN THE UNIT. COORDINATE WITH MECHANICAL CONTRACTOR.
**EXISTING PANEL SCHEDULE: “HMC1”**

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**EXISTING PANEL SCHEDULE: “HUC1”**

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**ELECTRICAL SCHEDULES & PANELS**

**ADVANCED ENGINEERING SYSTEMS**

620 N 129TH ST.
OMAHA, NE 68154
P: (402) 504-3885
F: (402) 504-4598
www.a-e-sys.com

**OMAHA PUBLIC SCHOOLS**

MCMILLAN MIDDLE SCHOOL

**ROOF TOP HVAC UNITS REPLACEMENT**

3802 REDICK AVE
OMAHA, NE 68112

DATE: 06-05-24

**PROJECT #: 24-080**

**CERTIFICATE OF AUTHORIZATION #: CA-1800**

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**EQUIPMENT CONNECTION SCHEDULE**

**GENERAL NOTES**

1. USE ELECTRICAL DATA ONLY.
2. USE DATA SUBJECT TO CORRECTION AT ANY TIME.
3. USE NOT RECOMMENDED USE.
4. USE NOT REQUIRED.

**DESCRIPTION**

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**NOTES**

1. CONTRACTOR TO SHOW IN SPACING CHANGED WILL NOTIFY: IT IS NOT REQUIRED FOR NEW ET 15 ft. BARRIER FOLLOWING.

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**DATE: 06-05-24**

**E2.1**