### MECHANICAL GENERAL NOTES

1. DRAWINGS AND SPECIFICATIONS ARE COMPLIANT; WHATSOEVER IS EXPRESSLY STATED HEREIN BEGINS AS DESIGN COLLECTOR IN
   2. ALL WORK SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, FIRE CODES, AND ALL AUTHORITY HAVING JURISDICTION
   3. THE EQUIPMENT SPECIFIED IN THE DRAWINGS MAY BE SELECTED AS THE BASIS OF DESIGN. THE USE OF MATERIALS OR SPECIFIED
   4. DRAWINGS AND SPECIFICATIONS ARE THE EXCLUSIVE DESIGN DOCUMENTATION,徎国風格, SPECIFICATION OF SYSTEMS. EXCEPT
   5. CONTRACTUAL SHOULDN'T BE COMPLIANT WITH THE CONTRACTOR FOR SPACE REQUIREMENTS, EQUIPMENT DIMENSIONS, PERFORMANCE
   6. RESPONSIBLE FOR THE REPAIR AND PATCHING OF DAMAGED ARCHITECTURAL COMPONENTS TO REMAIN
   7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND PATCHING OF DAMAGED ARCHITECTURAL COMPONENTS TO REMAIN
   8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND PATCHING OF DAMAGED ARCHITECTURAL COMPONENTS TO REMAIN

### MECHANICAL LEGEND

**Symbols and Descriptions**

- **MINIMAL AND TYPICAL**
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**Equipment Descriptions**

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**Table of Mechanical Equipment**

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### MECHANICAL DRAWING INDEX

**Sheet Numbers and Descriptions**

- **MINIMAL AND TYPICAL**
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**Design Data**

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**Indoor Conditions**

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**Outdoor Conditions**

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- **MINIMAL AND TYPICAL**
**DIFFUSER, GRILLE AND REGISTER SCHEDULE**

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<th>No.</th>
<th>DWG</th>
<th>DIV</th>
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<td>GALVANIZED STEEL</td>
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<td>2</td>
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**NOTES**:
1. DIFFUSERS / REGISTERS SHALL BE CONICAL TYPE (EXCEPT WHERE LISTED).
2. SUPPLY AND RETURN DUCTS SHALL BE CONICAL TYPE (EXCEPT WHERE LISTED).
3. SUPPLY AND RETURN DUCT LINERS SHALL BE CONICAL TYPE (EXCEPT WHERE LISTED).
4. SUPPLY AND RETURN WRAPS SHALL BE CONICAL TYPE (EXCEPT WHERE LISTED).

**CEILING DIFFUSER INSTALLATION**

1. **CEILING DIFFUSER INSTALLATION**
   - Use dye drawings for neck size and air quantity.
   - Provide framing compatible with ceiling type.
   - Reference architectural plans for final diffuser locations.

2. **INSULATED SQUARE TO ROUND ADAPTER**
   - Where required equal to or greater than diameter of flexible duct.
   - Maximum 6'-0" long flexible duct (typ.).

3. **STAINLESS STEEL BAND OR NYLON STRAP**
   - Min 3" wide metal strap.

4. **EXHAUST AIR REGISTERS**
   - Similar with rigid duct in lieu of flex.

5. **FULL SIZE INSULATED SHEET METAL ELBOW**
   - For ceiling spaces without clearance for proper bend at flex duct.

6. **DAMPERS**
   - Single blade type volume dampers shall be installed at all diffuser takeoffs and where required for proper balancing. Handle shall be visible through insulation.

**MECHANICAL DUCT SYSTEM NOTES**

1. **SUPPLY AND RETURN DUCTS DOWNSTREAM OF VAV BOXES**
   - Galvanized steel 4-inch WG B 24 12

2. **UPSTREAM AND DOWNSTREAM OF FANS WITH LESS THAN 2" ESP**
   - Galvanized steel 4-inch WG B 24 12

3. **ALL EXTERIOR DUCTWORK**
   - To be seal class A insulation.

**INSULATION SCHEDULE**

<table>
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<tr>
<th>SYSTEM</th>
<th>LINER/WRAP</th>
<th>THICKNESS</th>
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**NOTES**:
1. All exhaust within RA plenum.
2. All return within RA plenum.
3. All exhaust outside plenum.

**MARKLEY DESIGNS, INC.**

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351 NORTH 11TH AVE

WELD COUNTY HUMAN SERVICES BLDG C
GREELEY, COLORADO

315 NORTH 11TH AVE
GENERAL NOTES:
1. (E) VAV BOXES, SUPPLY AIR DIFFUSERS, RETURN AIR GRILLES AND ASSOCIATED DUCTWORK SHOWN DASHED LINE TYPE SHALL REMAIN IN PLACE.
2. (E) SUPPLY AIR DIFFUSERS AND ASSOCIATED DUCTWORK SHOWN SOLID LINE TYPE SHALL BE REMOVED AND REPLACED TO CFM SHOWN.

DEMOLITION NOTES:
1. REMOVE (E) RA GRILLE, CLEAN AND PREP FOR REINSTALLATION IN NEW CONSTRUCTION AREAS. REFER TO M2.0 FOR NEW LOCATION.
2. REMOVE (E) SA DIFFUSER AND ASSOCIATED DUCTWORK BACK TO VAV MAIN. SEAL OPENING AIR TIGHT. SA DIFFUSER SHALL BE CLEANED AND PREPARED FOR REINSTALLATION. REFER TO M2.0 FOR NEW LOCATION.
FIRST LEVEL FLOOR PLAN - MECHANICAL

GENERAL NOTES:
1. RELOCATE (E) RA GRILLE TO THIS LOCATION. TYPICAL.
2. RELOCATE (E) SA DIFFUSER TO THIS LOCATION. PROVIDE NEW 6"Ø DUCT FROM DIFFUSER TO VAV MAIN DUCT. REBALANCE TO NEW CFM SHOWN.

WORK NOTES:
1. MEASURE AS SHOWN TO THE LOCATION. TYPICAL.
2. MEASURE AS SUPPLIED TO THE LOCATION. PROVIDE 6"Ø DUCT FROM SUPPLY TO VAV MAIN DUCT. MEASURE TO THE LOCATION.
GENERAL NOTES:
1. NEW MECHANICAL WORK ON THE THIRD FLOOR IS SPECIFIC TO THE THREE (3) NEW OFFICE LOCATIONS. TYPICAL.
2. (E) VAV BOXES, SUPPLY AIR DIFFUSERS, RETURN AIR GRILLES AND ASSOCIATED DUCTWORK SHOWN DASHED LINE TYPE SHALL REMAIN IN PLACE.
3. (E) SUPPLY AIR DIFFUSERS AND ASSOCIATED DUCTWORK SHOWN SOLID LINE TYPE SHALL BE RELOCATED AND REBALANCED TO CFM SHOWN.

DEMOLITION NOTES:
1. (E) SA DIFFUSER SHALL BE RELOCATED TO NEW LOCATION AS SHOWN. EXTEND/RELOCATE (E) DUCTWORK AS REQUIRED TO MAKE DIFFUSER CONNECTION.

WORK NOTES:
1. (E) SUPPLY AIR DIFFUSER REMAIN IN (E) LOCATION AND SHALL BE BALANCED TO CFM SHOWN TYPICAL.