SPECIAL NOTICE TO CONTRACTORS

1. IT IS RECOMMENDED THAT ALL CONTRACTORS BIDDING THIS PROJECT VISIT THE JOB SITE AND VERIFY THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. CONTRACTORS ARE TO CAREFULLY REVIEW ALL CONSTRUCTION DOCUMENTS AND NOTE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED AT THE JOB SITE PRIOR TO SUBMISSION OF ANY BID. THE BUILDING OWNER REPRESENTATIVE MAY BE CONTACTED FOR ACCESS TO THE JOB SITE.

2. PRIOR TO CONSTRUCTION, CONTRACTORS ARE RESPONSIBLE FOR VERIFYING THE LOCATION AND CONDITION OF THE FOLLOWING:

   A. ALL POINTS OF CONNECTION TO BUILDING UTILITIES AND/OR SYSTEMS INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SEWER, VENT, ELECTRICAL, MECHANICAL SYSTEMS, DUCTWORK, EXHAUST/OUTSIDE AIR, SECURITY, FIRE/LIFE SAFETY, DATA, AND PHONE.

   B. ALL REQUIRED CONNECTIONS TO THE BUILDING STRUCTURE.

   C. ALL REQUIRED BUILDING PENETRATIONS.

3. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED SHALL BE BROUGHT TO THE ATTENTION, IN WRITING, TO THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

4. REFER TO THE CONSTRUCTION DOCUMENTS FOR ALL CONTACT INFORMATION.

MECHANICAL DEMOLITION NOTES

1. EQUIPMENT, PIPING, DUCTWORK, ETC., TAGGED WITH A PRECEDING "EXTG", "EX.", OR "x" ARE EXISTING.

2. BEFORE COMMENCING WORK ENSURE GAS IS OFF, AND ELECTRICAL POWER IS TURNED OFF TO THE EXISTING EQUIPMENT.

3. THE MECHANICAL CONTRACTOR SHALL REMOVE ALL ITEMS INDICATED AND SHALL BE RESPONSIBLE FOR THEIR DISPOSAL PER LOCAL, STATE AND FEDERAL REGULATIONS AND PAY FOR ALL ASSOCIATED COSTS OF DISPOSAL.

4. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE TO DETERMINE IF ANY PARTS OR EQUIPMENT ARE DESIRED TO BE KEPT BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT OF FIRST REFUSAL. ANY ITEM NOT WISHED TO BE RETAINED, SHALL BE DISPOSED OF AT THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

5. ITEMS HATCHED SHALL BE PERMANENTLY REMOVED.

6. ITEMS CLOUDED SHALL BE TEMPORARILY REMOVED AND REUSED.

REMOVE EXISTING AIR SUPPLY UNITS (ASU'S), OUTDOOR AIR, SUPPLY AIR, RETURN AIR DUCTWORK AND FRAME. PREPARE TO TIE IN NEW ROOF TOP UNIT (RTU) AND COORDINATE NEW TAPERED RTU CURBS AND CONCENTRIC DIFFUSER WITH EXISTING ASU PENETRATIONS.

REMOVE EXISTING GAS LINES LEADING TO EXISTING AHU'S AND PREPARE TO REUSE GAS PIPING. INSTALL NEW GAS PIPING WHERE NEEDED FOR NEW RTU'S.

REMOVE EXISTING AIR HANDLING UNITS (AHU'S).

REMOVE EXISTING CONDENSING UNITS (CU'S).

DEMOLITION KEYED NOTES

ALTERNATE #1

EXISTING EQUIPMENT OR HANDLING UNITS UNUSED: EXISTING UNITS TO REMAIN IN PLACE UNTIL EXTRACTED.

EXISTING EQUIPMENT CONDENSING UNITS UNUSED: EXISTING UNITS TO REMAIN IN PLACE UNTIL EXTRACTED.

NOTE:

LOCATE FOUR (4) NEW RTU'S DIRECTLY ABOVE EXTG UNITS THAT ARE GOING TO BE REMOVED.
**MECHANICAL FLOOR PLAN**

**SCALE:** 1/8" = 1'-0"

**MULTI-PURPOSE FACILITY**

**Cadillac, MI**

**Wexford County**

**ENGR. PROJ. #** M1

**DRAFTSMA#** ET 20071

**DATE:** 12-18-2020

**PLAN REVIEW**

**NOTE:** LOCATE FOUR (4) NEW RTU'S DIRECTLY ABOVE EXTG UNITS THAT ARE GOING TO BE REMOVED.

**ALTERNATE #2**

1. ELIMINATE RTU-4 AND CAP EXISTING ROOF PENETRATION.

**ALTERNATE #3**

2. ADD NEEDLEPOINT IONIZATION IN EACH ROOF TOP UNIT.

**OPERATING WEIGHT**

- **2626.0 LBS**
- **2626.0 LBS**

**A**

- **635.0 LB**
- **374.0 LB**

**B**

- **515.0 LB**
- **454.0 LB**

**C**

- **D**

**CORNER WEIGHTS**

- **RTU, CONCENTRIC DIFFUSER, & CURB WEIGHT**
  - **388 LBS**
  - **3249 LBS**

**ROOF CURB**

- **235 LBS**

***ALL WEIGHTS ARE APPROXIMATE. THE ACTUAL WEIGHTS ARE LISTED ON THE UNIT NAMEPLATE.**
MECHANICAL SPECIFICATIONS

SECTION

1. ALL WORK PERFORMED MUST BE ACCORDING TO CURRENT CONSTRUCTION INDUSTRY STANDARDS AND WORKMANSHIP.

2. ALL MATERIALS USED SHALL BE NEW AND UNDAMAGED.

3. ALL WORK PERFORMED MUST BE ACCORDING TO CURRENT CONSTRUCTION INDUSTRY STANDARDS AND WORKMANSHIP.

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50. ALL WORK PERFORMED MUST BE ACCORDING TO CURRENT CONSTRUCTION INDUSTRY STANDARDS AND WORKMANSHIP.

ROOF TOP UNIT SCHEDULE

<table>
<thead>
<tr>
<th>UNIT</th>
<th>LOCATION</th>
<th>MANUFACTURER &amp; MODEL NO.</th>
<th>CAP (CFM)</th>
<th>E.S.P. (IN W.G.)</th>
<th>DRIVE</th>
<th>INPUT POWER</th>
<th>OUTPUT AMPS</th>
<th>INPUT</th>
<th>S.P.</th>
<th>CONNECT</th>
<th>TC</th>
<th>RFR</th>
<th>FILTER</th>
<th>OPTIONS</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>UNIT 1</td>
<td>ROOF</td>
<td>TUNE</td>
<td>2250</td>
<td>0.75</td>
<td>105</td>
<td>460/1V/30/60</td>
<td>365</td>
<td>2250</td>
<td>105</td>
<td>460/1V/30/60</td>
<td>56</td>
<td>75</td>
<td>460V/30/60</td>
<td>CONTROL</td>
<td>COMPLIANCE WITH Manufacturer'S SPECIFICATIONS</td>
</tr>
</tbody>
</table>

CONCENTRIC DIFFUSER DETAIL
EXT'G CONDENSING UNIT NOTE:
IT IS BELIEVED THAT EXISTING PANEL #B IS FEEDING THE EXISTING CONDENSING UNITS LOCATED AROUND THE PERIMETER OF THE EXISTING BUILDING. HOWEVER, THIS COULD NOT BE VERIFIED DURING THE DESIGN. E.C. TO CONFIRM THE ELECTRICAL SOURCE FOR THE EXISTING CONDENSING UNITS AND NOTIFY THE ENGINEER PRIOR TO DEMOLISHING.

ELECTRICAL DEMOLITION NOTES
FOR THE ELECTRICAL EQUIPMENT TO BE DISCONNECTED AND REMOVED, THE OWNER SHALL BE GIVEN THE OPPORTUNITY OF KNOWING IT OF IT TURNED OFF TO-AHEAD.

- DISCONNECT AND REMOVE ELECTRICAL DEVICES WHICH WILL INTERFERE WITH THE REMOVAL OF MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT AND SYSTEMS, AS INDICATED. REMOVE EXISTING CIRCUITRY (WIRING) AND CONDUIT BACK TO PANEL OR SOURCE AND DISCARD.
- DISCONNECT AND REMOVE EXISTING ELECTRICAL CONNECTIONS TO THE EXISTING MECHANICAL AND/OR PLUMBING EQUIPMENT THAT IS TO BE REMOVED. REMOVE EXISTING CIRCUITRY (WIRING) AND CONDUIT BACK TO PANEL OR SOURCE AND DISCARD.
- DISCONNECT AND REMOVE EXISTING ELECTRICAL PANELS WHICH WILL REMAIN IN PLACE. PROVIDE BLANK COVER PLATES FOR EMPTY GANG BOXES.
- DISCONNECT AND REMOVE EXISTING FEEDER FROM EXISTING PANEL #B, AND IDENTIFY THE CIRCUIT BREAKER WHICH PREVIOUSLY FED PANEL #B1 AS A SPARE.

DISCONNECT AND REMOVE EXISTING ELECTRICAL PANEL #B1, AND ALL ASSOCIATED BRANCH CIRCUITRY (WIRING) AND CONDUITS, AS SHOWN.

SHALL BE GIVEN THE OPPORTUNITY OF HAVING ANY OF IT TURNED OVER TO THEM.
GENERAL ELECTRICAL NOTES

1. CAUTION!!!!!!!!!!! E.C. SHALL VERIFY ALL ROUGH-IN ELEVATIONS, LOCATIONS AND/OR HEIGHTS OF ALL MECHANICAL AND POWERED EQUIPMENT WITH ARCHITECT/ENGINEER. FAILURE TO DO SO WILL REQUIRE E.C. TO RELOCATE RESPECTIVE ITEMS AT THE EXPENSE.

2. THERE SHALL BE NO EXPOSED CONDUITS, EXCEPT IN MECHANICAL ROOMS AND FINISHED SPACES WITH EXPOSED CEILINGS. ALL EXPOSED CONDUITS SHALL BE PAINTED TO MATCH ASSOCIATED SURFACE (WALL, CEILING, ETC.) IN FINISHED SPACES.

3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE CONTRACTOR TO DETERMINE IF ANY PARTS OR EQUIPMENT ARE DESIRED TO BE KEPT BY THE OWNER. ALL ITEMS NOT WISHED TO BE RETAINED SHALL BE DISPOSED OF AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.

4. CIRCUITS SHOWN ON PLANS WITH AN * AFTER IT, INDICATE THE CIRCUIT NUMBER AND LOCATION OF A TAKEOFF. E.C. IS TO VERIFY ACTUAL CIRCUIT AND USE IT IF DIFFERENT THAN CIRCUIT INDICATED.

ALTERNATE #2 DESCRIPTION

THE BASE BID SHALL INCLUDE THE INSTALLATION OF ALL FOUR (4) ROOF TOP UNITS, AS SHOWN ON THE FLOOR PLANS. ALTERNATE #2 IS A DEDUCT ALTERNATE WHEREIN ONLY THREE (3) OF THE ROOF TOP UNITS WILL BE INSTALLED. FOR THE DEDUCT PRICING, ELIMINATE ALL LABOR AND EQUIPMENT ASSOCIATED WITH THE INSTALLATION OF RTU-4, INCLUDING THE CIRCUIT BREAKER, CONDUIT AND CIRCUITRY (WIRING) FROM NEW PANEL #G TO RTU-4.