GENERAL UTILITY NOTES:

1. NECESSARY PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT EXISTING UTILITY SERVICES AND MAINS. ANY DAMAGE TO THEM SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

2. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO SPECIFICALLY MENTION WORK WHICH IS REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.

3. THE CONTRACTOR SHALL CALL 1-800-344-7483 AT LEAST 48 WORKING HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.

4. ALL PUBLIC WATER AND SANITARY SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.

5. ALL PRIVATE WATER AND SANITARY SEWER MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.

6. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS PROVIDED BY OWNER AND FIELD CONDITIONS WHEN POSSIBLE, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS WELL IN ADVANCE OF TRENCHING. IF THE CLEARANCES ARE LESS THAN SPECIFIED ON THE PLANS OR 18”, WHICHEVER IS LESS, CONTACT OLSSON TO REPORT ANY DISCREPANCIES.

7. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL REQUIRED/NECESSARY SHEETING, SHORING, BRACING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT TO MEET OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THE DRAWINGS. OLSSON ACCEPTS NO RESPONSIBILITY FOR THE DESIGN TO INSTALL SAID ITEMS.

8. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE DAILY RECORD KEEPING OF THE AS-BUILT CONDITION OF ALL UNDERGROUND UTILITIES ASSOCIATED WITH THE PROJECT.

9. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ALL MATERIAL AND LABOR ASSOCIATED WITH THE TESTING OF THE SANITARY SEWER AS REQUIRED BY THE SPECIFICATIONS.

10. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO FINAL CONNECTION OF UTILITY SERVICES.

11. ALL WATER AND SANITARY SEWER TRENCHING AND BEDDING SHALL BE PER SPECIFICATIONS.

12. COORDINATE NUMBER, SIZE, AND LOCATION OF ELECTRIC CONDUIT & PULL STRINGS WITH ELECTRIC/UTILITY COMPANY.

13. FOR CONTINUATION OF ALL BUILDING UTILITIES AND BUILDING CONNECTION LOCATIONS REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING PLANS.

14. REFER TO ARCH'L PLANS FOR ROOF DRAIN DOWNSPOUTS LOCATIONS AND CONNECTION DETAILS.

WATER NOTES:

1. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO THE PERMANENT CONNECTION OF SERVICES.

SANITARY SEWER NOTES:

1. SANITARY SEWER APPURTENANCES SHALL COMPLY WITH THE SPECIFICATIONS.

2. SANITARY SEWER CLEAN-OUTS LOCATED IN TRAFFIC AREAS SHALL HAVE TRAFFIC RATED FRAMES AND COVERS.

3. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO PERMANENT CONNECTION OF SERVICES.

4. REFER TO MEP PLANS FOR BUILDING SANITARY SEWER CONNECTION LOCATIONS 5' OUTSIDE BUILDING FOUNDATION.
### STRUCTURAL GENERAL NOTES

- **UNFORCED AND ENFORCED NON-LOAD BEARING CONCRETE MASONRY WALL SCHEDULE**

<table>
<thead>
<tr>
<th>Wall Thicker</th>
<th>Height</th>
<th>Unforced Minimum</th>
<th>Enforced Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>2”</td>
<td>8’-0”</td>
<td>2”</td>
<td>2”</td>
</tr>
<tr>
<td>3”</td>
<td>8’-0”</td>
<td>3”</td>
<td>3”</td>
</tr>
</tbody>
</table>

- **All concrete blocks shall be located at the bottom of the wall and all structural frames shall be placed at the top of the wall.**

- **All concrete frames shall be placed at the bottom of the wall.**

- **All concrete blocks shall be placed at the top of the wall.**

### TYP CMU REINF. PLACEMENT

- **TYP CMU GROUTING**

- **TYP NON-LOAD BRG WALLS**

- **TYP OPENINGS IN CMU WALLS**

- **T/WALL BRACING INT CMU**

### STRUCTURAL ABBREVIATIONS

- **BRG**: Braced
- **CMU**: Concrete Masonry Unit
- **INT**: Interior
- **OUT**: Exterior
- **T/E**: Load Bearing
- **T/W**: Non-Load Bearing

### TYP CMU GROUTING

- **Grout Material**
  - **Type A**: Lightweight Concrete Mix
  - **Type B**: Normal Weight Concrete Mix

### TYP NON-LOAD BRG WALLS

- **Walls shall be constructed using concrete block units.**
- **All concrete blocks shall be placed at the bottom of the wall.**
- **All concrete frames shall be placed at the top of the wall.**

### TYP OPENINGS IN CMU WALLS

- **All concrete openings shall be constructed using steel reinforcement bars.**
- **All concrete openings shall be constructed using concrete block units.**
- **All concrete openings shall be constructed using structural steel frames.**

### T/WALL BRACING INT CMU

- **Bracing shall be provided at the interior walls.**
- **Bracing shall be provided at the exterior walls.**
- **Bracing shall be provided at the interior and exterior walls.**
MOUNTING HEIGHTS NOTES

1. THESE PLANS & ELEVATIONS ARE INTENDED TO SHOW TYPICAL MOUNTING HEIGHTS, CONSIDERING COMMONLY ACCEPTABLE MOUNTING LEVELS. DIMENSIONS, CLEARANCES, ETC. SHOWN IN THESE DIAGRAMS ARE FOR GUIDANCE ONLY AND SHOULD BE CONFIRMED WITH THE MANUFACTURER’S INSTALLATION INSTRUCTIONS & ACCESSORIES. UNLESS NOTED OTHERWISE.

2. NOT ALL DEVICES, FIXTURES, ACCESSORIES, ETC. SHOWN IN THESE DIAGRAMS ARE DIMENSIONED ELSEWHERE ON THESE DRAWINGS. DIMENSIONS, CLEARANCES, ETC. FOR BOTH ACCESSIBLE (ADA) & NON-ACCESSIBLE FIXTURES & ACCESSORIES.

3. COMPLY WITH THE MOUNTING HEIGHTS SHOWN ON THESE DIAGRAMS UNLESS SPECIFICALLY NOTED OTHERWISE.

4. ALL DIMENSIONS ARE FROM FINISHED MATERIAL.

5. PLUMBING INSTALLATION NOT REQUIRED OR ALL EXPOSED DRAIN LINES AND HOT WATER SUPPLY (TYP.)

6. CONTRACTOR TO PROVIDE A MOUNTING AREA PATTERNED AS SHOWN IN THE DIAGRAMS. ENSURE PROPER INSTALLATION PER THE MANUFACTURER’S INSTALLATION INSTRUCTIONS & ACCESSORIES.

7. TG/OA TYP. ADA LAVATORY

8. TOILET ACCESSORIES MOUNTING HEIGHTS

9. A-402

TOILET ACCESSORIES MOUNTING HEIGHTS

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1. SEE STRUCT. FOR LOCATIONS.

NOTES:
1. AIR BARRIER
2. CMU CONTROL JOINT
3. CONT. BACKER ROD
4. CONT. ACOUSTICAL CAULK & BACKER ROD & SEALANT
5. CONT. BACKER ROD & SEALANT (RE: STRUCT.)
6. CONT. BACKER ROD & SEALANT (PTD.)
7. CONT. BACKER ROD & SEALANT (RE: SHEET G-002)
8. CONT. MTL. STUD TRACK
9. CONT. MTL. STUD TRACK (PTD.)
10. IT IS RECOMMENDED THAT THE BACKER ROD & SEALANT BE APPLIED TO THE WALL BASE AS SHOWN.
11. SHEET NUMBER: A-601
12. SHEET TITLE: PARTITION TYPES & DETAILS
13. ISSUE DATE: 07/02/2020
14. DESIGNED BY: GLMV Architecture, Inc
15. PRINTED BY: OLSON PRINTING SERVICES, INC.
SIGNAGE SCHEDULE

<table>
<thead>
<tr>
<th>SIGN COPY</th>
<th>ICON</th>
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<tbody>
<tr>
<td>SIGNAGE SR - SAFE ROOM</td>
<td></td>
</tr>
<tr>
<td>SIGNAGE RR - RESTROOM</td>
<td></td>
</tr>
<tr>
<td>SIGNAGE SS - STORM SHELTER</td>
<td></td>
</tr>
<tr>
<td>SIGNAGE RN - ROOM NAME</td>
<td></td>
</tr>
</tbody>
</table>

NOTE:
- The signage shall be made of metal or plastic material with a thickness of 1/16". The text shall be at least 1/4" tall with a minimum of 5/8" capital letter height.
- The signage shall be mounted on buildings or structures with a minimum of 1'-0" above the ground level, and a minimum of 1/2" away from the edge of the building.
- The signage shall be placed in a location where it can be easily seen by people with visual impairments.
- The signage shall be made with materials that are resistant to weather and other environmental conditions.

SIGNAGE GENERAL NOTES

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SIGNAGE PLAN

- The signage shall be placed on walls, doors, and other surfaces.
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<tr>
<td>2</td>
<td>Restroom</td>
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</tr>
<tr>
<td>3</td>
<td>Tornado Safe Room</td>
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<tr>
<td>4</td>
<td>Men's Locker</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Women's Locker</td>
<td></td>
<td></td>
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## Louver Schedule

**General Notes (Apply to All Below):**

- **D.** Fuel source for gas heater is natural gas.
- **C.** Air velocity across the cooling coil shall not exceed 500 FPM.
- **B.** Maximum BHP for fans shall not exceed 90% of the motor nameplate rating at operating conditions.

### Notes:

1. Provide unit with duct smoke detector in return air duct upstream of outside air connection. Interlock duct detector with fire alarm system to provide visible and audible supervisory signal at attended location. Electrical contractor shall provide notification equipment.

2. Unless noted otherwise, color shall be standard white.

3. Provide mounting frame to match ceiling type. Verify with architect's plans prior to ordering.

4. Four-way throw pattern for square diffusers unless noted otherwise.

5. Grille color shall be black where installed in areas of exposed ceiling. Coordinate with architect's ceiling plan.

### Schedule

<table>
<thead>
<tr>
<th>Mark</th>
<th>Manufacturer</th>
<th>Model</th>
<th>CFM</th>
<th>RPM</th>
<th>dBA</th>
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<tbody>
<tr>
<td>T2</td>
<td>Trane</td>
<td>T1250</td>
<td>104</td>
<td>120</td>
<td>75</td>
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<tr>
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<td>Trane</td>
<td>T1251</td>
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<td>75</td>
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<tr>
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<td>Trane</td>
<td>T1252</td>
<td>103</td>
<td>120</td>
<td>75</td>
</tr>
</tbody>
</table>

## Fan Schedule

**General Notes (Apply to All Below):**

- **D.** Provide mounting frame to match construction.
- **B.** Color to be selected by architect from manufacturer's standard colors, refer to specifications.

### Schedule

<table>
<thead>
<tr>
<th>Mark</th>
<th>Manufacturer</th>
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<th>CFM</th>
<th>HP</th>
<th>RPM</th>
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<td>0.25</td>
<td>137</td>
</tr>
</tbody>
</table>

## Furnace and Condensing Unit Schedule

**General Notes (Apply to All Below):**

- **D.** Provide all miscellaneous supporting steel, etc. for the project.
- **B.** Coordinate the installation of the ductwork and equipment necessary to complete the project.

### Schedule

<table>
<thead>
<tr>
<th>Mark</th>
<th>Manufacturer</th>
<th>Model</th>
<th>CFM</th>
<th>Size</th>
<th>Notes</th>
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<td>Trane</td>
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<td>T4</td>
<td>Trane</td>
<td>T1252</td>
<td>103</td>
<td>12x10</td>
<td></td>
</tr>
</tbody>
</table>

## General Notes

- **4.** Provide wall vault/shroud at 10'-8" above finished grade, or
- **2.** Provide wall vault/shroud at 10'-8" above finished grade, or
- **5.** Exhaust fan EF-2 to only operate in emergency conditions.

- **K.** Provide access doors in hard ceiling areas for access to equipment.
- **J.** All ductwork dimensions indicate the inside clear dimension.
- **G.** Ductwork upstream of supply terminal units shall be box neck size unless noted otherwise.
- **F.** Refer to architectural reflected ceiling plans and wall panels. Provide the code required working clearance around equipment as required to be centered between structural bond beams as required to exit wall vault/shroud on 11'-4" above finished grade. Coordinate penetration of storm shelter wall with structural.
- **E.** locker machine men's storage 125
- **D.** Provide all miscellaneous supporting steel, etc. for the project.
- **C.** Provide all miscellaneous supporting steel, etc. for the project.
- **B.** Coordinate the installation of the ductwork and equipment necessary to complete the project.
- **A.** Provide all miscellaneous supporting steel, etc. for the project.
NOTES:

1. DUCT TERMINATIONS SHALL BE PROVIDED WITH BIRDSCRE ENS.

2. MANUFACTURER’S WALL PLATE SHALL MOUNT FLAT TO STO RM SHELTER WALL.

3. MANUFACTURER’S 90 DEGREE ELBOWS SHALL BE OF SCHEDULE 40 BLACK STEEL.

4. MANUFACTURER’S ELBOWS SHALL ALLOW FOR PASS-THROUGH PROTECT ION OF PIPING/DUCT.

5. WALL SHROUD ASSEMBLY SHALL BE VANDAL-PROOF.

6. MANUFACTURER SHALL BE ABLE TO PROVIDE CUSTOM SIZES AS REQUIRED.

DUCT TERMINATION

INSULATED FLEXIBLE DUCT, MAXIMUM LENGTH OF 6'-0", INSTALL AS STRAIGHT AS POSSIBLE WITHOUT SAGS, MAKE BENDS WITH MAXIMUM RADIUS POSSIBLE.

DIFFUSER/GRILLE REFER TO SCHEDULE 16x22

3.5" HOUSE KEEPING PAD. SHALL EXTEND 6" PAST EDGE OF SUPPORTED EQUIPMENT

WALL VAULT

DIFFUSER CONNECTION TYPICAL

SLOT DIFFUSER WITH PLENUM REFER TO SCHEDULE 20x16

EXTERIOR WALL

COMBUSTION INTAKE/EXHAUST INSULATION SLEEVE (TYP)

3/4" CONDENSATE DRAIN

STEAM LINE

DRAIN LINE

WATER LINES

ELEVATION

FURNACE CONNECTION

BARRIER PENETRATION. PROVIDE FLEXIBLE CONNECTION (TYP.)

DISCONNECT SWITCH MOUNTED EXTERIOR TO BUILDING

MOUNT DISCONNECT SWITCH A MINIMUM OF 3'-0" ABOVE GRADE.

ARRANGEMENT SHOWN IN SCHEMATIC. REFER TO PLANS FOR LOCATION OF CONDENSING UNITS AND PIPE PENETRATIONS.

MOUNTED TO CONCRETE PAD.

FOR POSITIONING SHEET, REFER TO PLANS FOR LOCATION AND PIPEWORK OF BUILDING.

PENETRATIONS.

Duct Branch Connection

CONDENSING UNIT INSTALLATION

Duct Branch Connection

Gas Piping

Duct Branch Connection

Duct Branch Connection

MOTORIZED DAMPER

VOLUME DAMPER

FIRE DAMPER AT FIRE LINED RETURNED AIR

MANUAL BALANCE SHUT-OFF VALVE

MANUAL OPPOSED BLADE TURNING VANES

AIR HANDLING UNIT (TYP.)

CONDENSING UNIT RA

REFRIGERANT LINES TO UNION

CONDENSING UNIT, BOLT TO CONCRETE PAD.

INTAKE AND VENT PIPING TO UNION

EVAPORATOR COIL

FILTER RACK ACCESSORY

SUPPORTED SEPARATELY.

BASED ON MANUFACTURER. COMPONENTS AND CONNECTIONS SUBJECT TO CHANGE BASED ON MANUFACTURER.

07/02/2020

MO State Certificate of Authority #F00364807

MISSOURI ARMY NATIONAL GUARD

Camp Crowder Training Site

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STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

OFFICE OF ABDUANT GENERAL
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION
DEPARTMENT OF PUBLIC SAFETY

MO Certificate of Authority: 01022

BID DOCUMENTS

07/02/2020

M-401
EXISTING GRAVEL PARKING AREA

PLAN NOTES:

1. LOCATE FACE OF POLE BASE 4'-0" FROM BACK OF CURB UNLESS SHOWN OTHERWISE.

2. PROVIDE 1/2"x8' COPPER GROUND ROD FOR EACH POLE.

3. PROVIDE 3'-0" IF GRASS, 5'-0" IF PARKING.

4. ANCHOR BOLTS AND TEMPLATE BY POLE MANUFACTURER.

5. SCALE: 1" = 20'-0"

ELECTRICAL SITE PLAN

POLE BASE DETAIL

SCALE: 1" = 20'-0"
GENERAL NOTES:

A. PROVIDE EXPLOSION PROOF LIGHTS AROUND COMMERCIAL OVEN.
B. PROVIDE 30AMPS-208V THUMB WHEEL DISCONNECT IN A NEMA 4X ENCLOSURE AT EACH OVEN.
C. PROVIDE 2-POWER OUTLETS AND 1 LIGHT OUTLET AT EACH OVEN.
D. PROVIDE 208V/2-PH 3-WIRE 20A HANDHELD RECEPTACLE IN THE RACK AREA.
E. PROVIDE WASHDOWN OUTLET IN THE RACK AREA.
F. PROVIDE CONDUIT SLEEVE THROUGH FLOOR FOR TELECOM CABLING.
G. PROVIDE (1) #10 AND (1) #10 GROUND TO TVSS CONNECTION.
H. PROVIDE SINGLE CONTROL SWITCH FOR ALL TV, TELEPHONE, AND INTERNET SERVICES. REFER TO CIVIL DRAWINGS.
I. PROVIDE ELECTRICAL CONNECTION TO MOTORIZED WINDOW SHUTTERS AT EACH DOOR.
J. PROVIDE 15 AMP 120V OUTLET FOR COOKING TOOLS IN EACH RACK.
K. PROVIDE APPLIANCE OUTLET IN DRYER AREA.
L. PROVIDE 15 AMP 120V SUMP PUMP IN THE CLEANER AREA.
M. PROVIDE (#32) 15 AMP 120V POWER OUTLET IN EACH STUDY.
N. PROVIDE (#32) 15 AMP 120V OUTLET IN EACH CLASSROOM.
O. PROVIDE (#32) 15 AMP 120V OUTLET IN EACH OFFICE.

PLAN NOTES:

1. PROVIDE ALL REQUIRED ELECTRICAL OUTLETS IN EACH ROOM.
2. PROVIDE ALL REQUIRED LIGHT FIXTURES IN EACH ROOM.
3. PROVIDE ALL REQUIRED ELECTRICAL EQUIPMENT IN EACH ROOM.
4. PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS IN EACH ROOM.
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