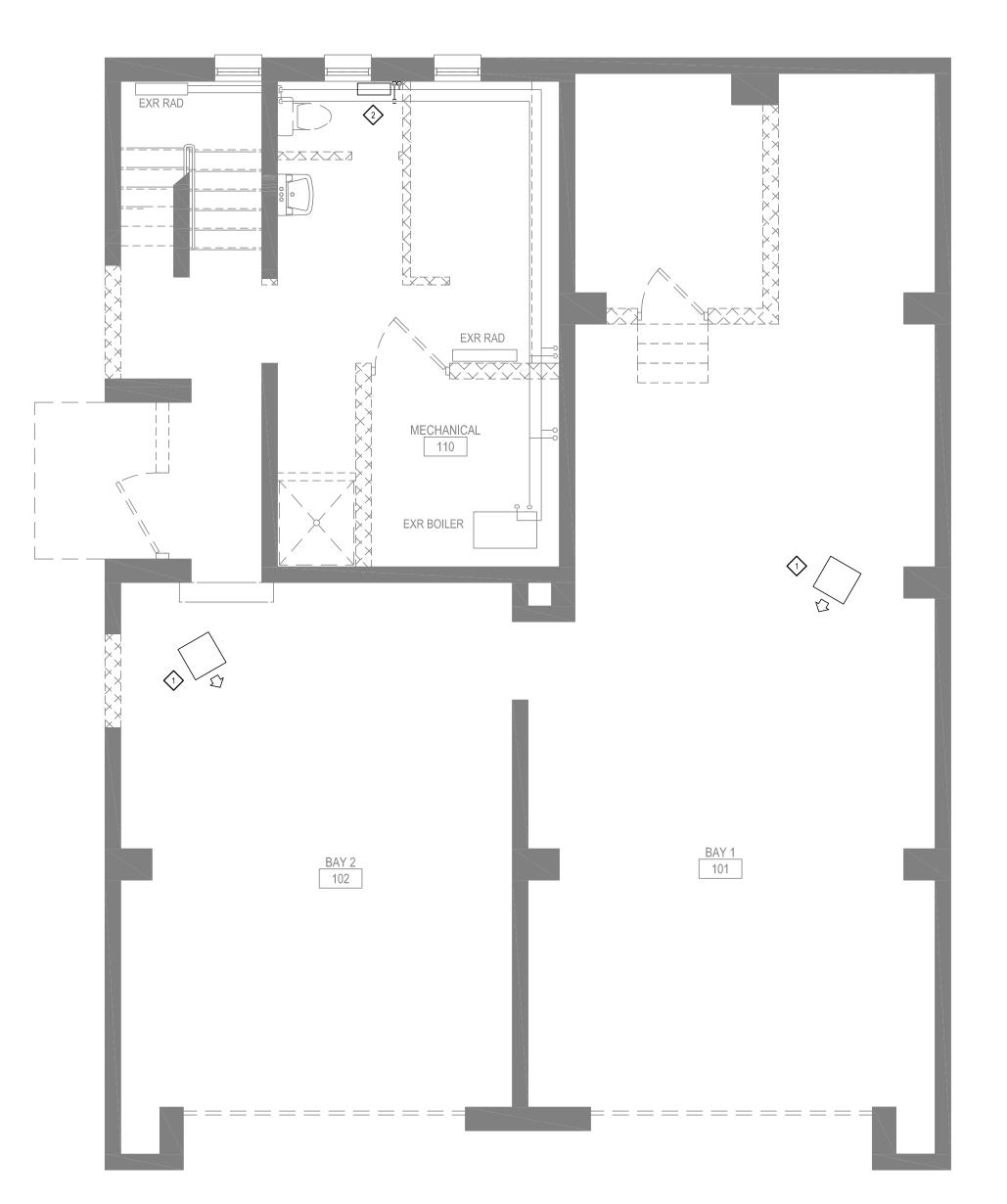


SECOND FLOOR MECHANICAL DEMO PLAN 1/4" = 1'-0" 2



FIRST FLOOR MECHANICAL DEMO PLAN

VILLAGE/TOWN OF

REMOVAL NOTES

- REMOVE SUSPENDED GAS-FIRED UNIT HEATER AND ASSOCIATED SUPPORTS, ATTACHMENTS, VENTING AND CONTROLS. PATCH WALL OPENINGS.
- REMOVE WALL MOUNTED STEEL RADIATOR AND ASSOCIATED BRANCH PIPING.
- REMOVE THRU-WALL A/C UNIT. WALL PATCH BY G.C.
- REMOVE WINDOW A/C UNIT. WINDOW REPAIR BY G.C.

M-1

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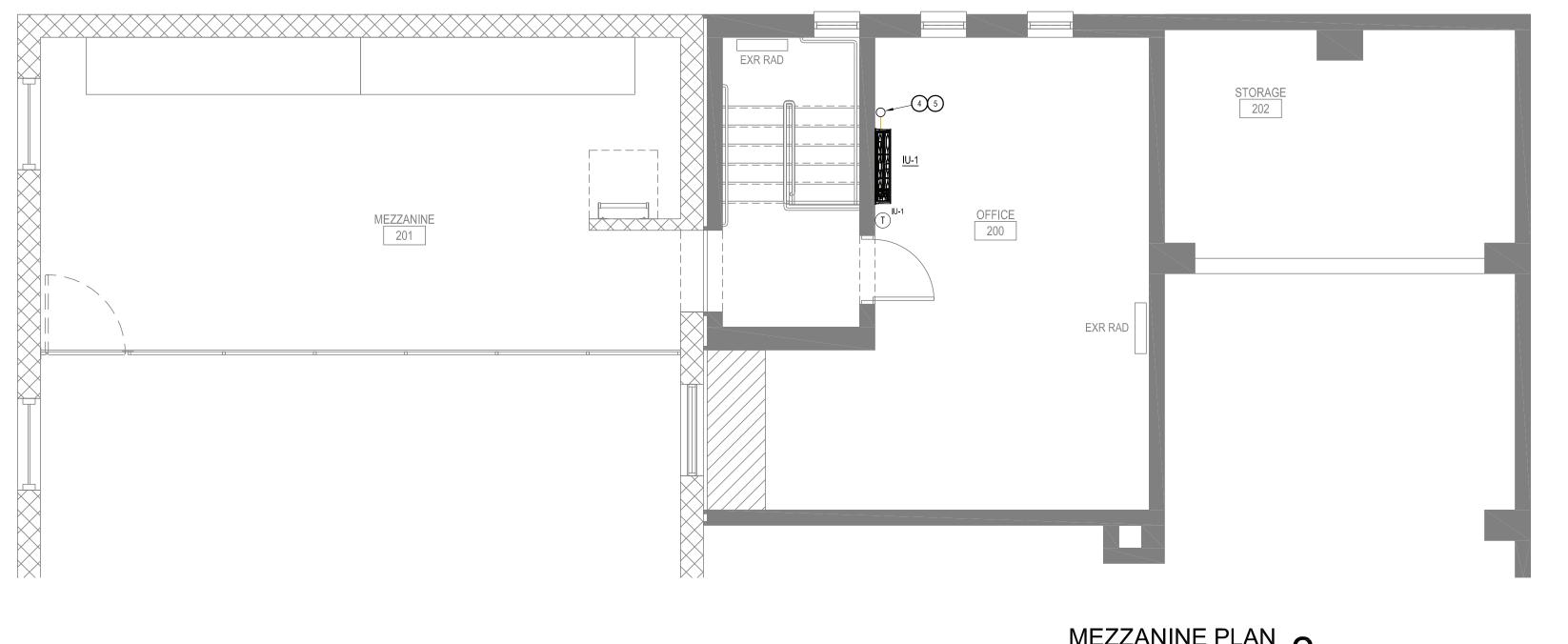
MECHANICAL **DEMO PLANS**

Revision

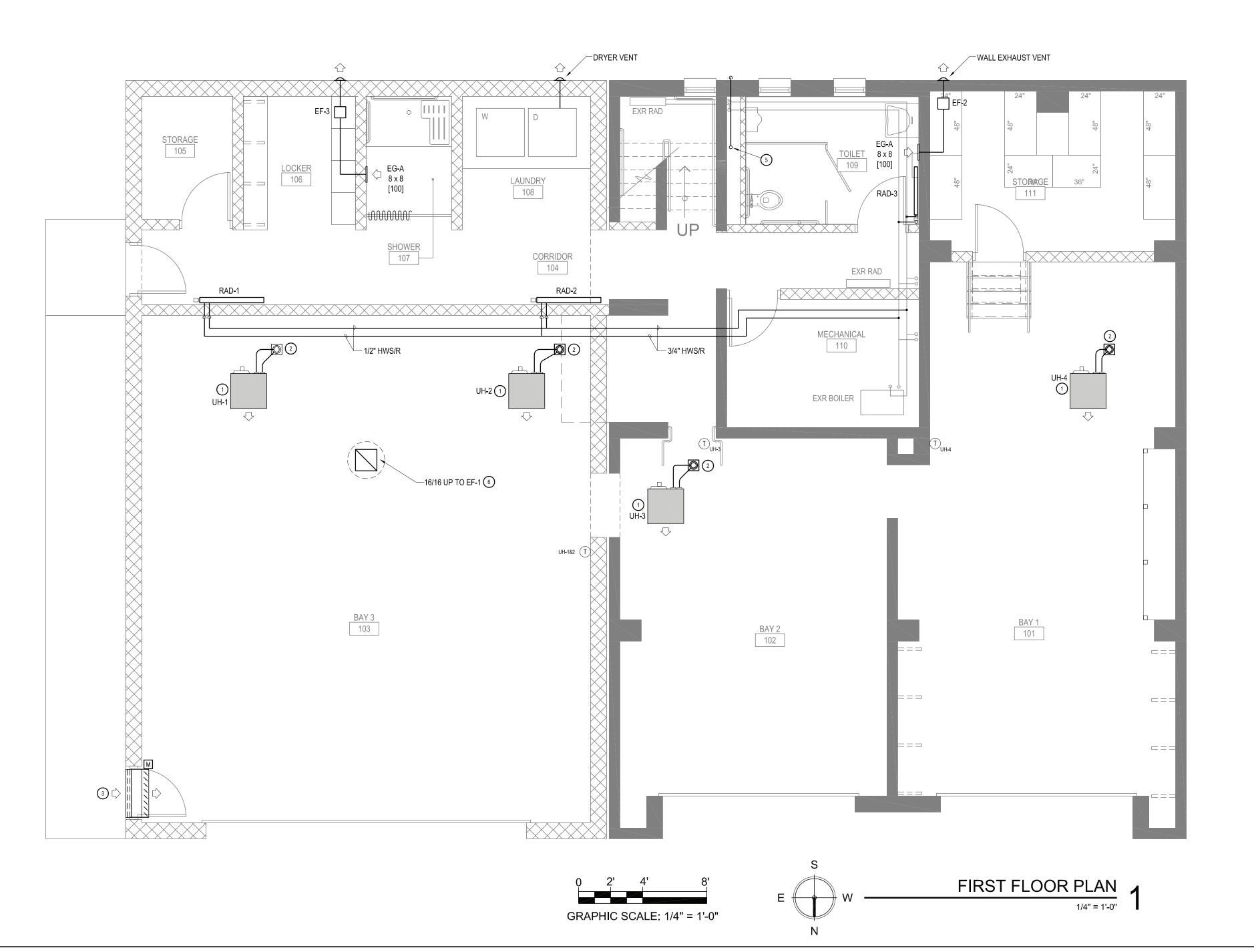
June 3, 2022

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MEZZANINE PLAN



GENERAL NOTES

REMOVAL AND RELOCATION OF CERTAIN EXISTING WORK SHALL BE NECESSARY FOR THE PERFORMANCE OF GENERAL WORK. AL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE AND MAKE ALL NECESSARY CHANGES REQUIRED BASED ON EXISTING CONDITIONS, FOR PROPER DEMOLITION OF EXISTING WORK AND INCLUDE ALL MATERIALS AND LABOR IN HIS BID PRICE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO DO SO.

PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE SITE AND INSPECT ALL AREAS OF PROPOSED WORK, AND EXAMINE ALL CONTRACT DOCUMENTS. VERIFY LOCATIONS WHERE THE NEW WORK IS BE ROUTED, COORDINATE WITH NEW AND EXISTING WORK AND PROVIDE CLEARANCES FROM STRUCTURE AND WORK OF OTHER TRADES. THE CONTRACTOR SHALL INCLUDE ALL COSTS INCURRED THROUGH LIMITATIONS OF THE EXISTING AND NEW CONDITIONS. CLAIMS FOR ADDITIONAL LABOR, EQUIPMENT OR MATERIALS REQUIRED DUE TO DIFFICULTIES WHICH COULD HAVE BEEN FORESEEN WILL NOT BE CONSIDERED AS ADDITIONAL

- THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF THE WORK AND INDICATE THE REQUIRED SIZE AND POINTS OF TERMINATION AND SUGGEST PROPER ROUTING OF THE WORK. IS NOT THE INTENTION OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, OBSTRUCTIONS OR STRUCTURAL CONDITIONS. THE WORK SHALL BE COORDINATED WITH WORK OF OTHER TRADES TO PROVIDE NECESSARY CLEARANCES, AVOID OBSTRUCTIONS, MAXIMIZE HEADROOM, AND MAINTAIN EXISTING OPENINGS AND PASSAGEWAYS CLEAR.
- MAINTAIN CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE AND REPAIR. MINOR ADJUSTMENTS MAY BE MADE TO ACCOMPLISH THIS. OBTAIN APPROVAL PRIOR TO MAKING ANY CHANGES THAT IMPACT CONTRACT COST.
- INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHEN NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN CRATED SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AREAS AVAILABLE. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT COULD BE MOVED THROUGH THE BUILDING.
- COORDINATE THE EXACT SIZE AND LOCATION OF THE NEW OPENINGS WITH EXISTING STRUCTURE. PATCH AND INSULATE AS REQUIRED. THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF NEW PIPING, CONDUIT, DUCTWORK, ETC. THROUGH EXISTING FIRE/ SMOKE BARRIERS. FIRE/SMOKE STOPPING SHALL BE 3M FIRE BARRIER CP 25 N/S CAULK UNLESS OTHERWISE NOTED.
- IT IS THE INTENT OF THIS CONTRACT TO KEEP REMAINING SYSTEMS LEFT IN GOOD WORKING ORDER, READY FOR OPERATION, INCLUDING NECESSARY LABOR AND MATERIALS.
- THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OR DISRUPTING BUILDING SYSTEMS, WIRING, PIPING OR CONTROL TUBING. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED AT THE CONTRACTOR'S COST, WITHIN COST, WITHIN THIS CONTRACT PERIOD FOR SUBSTANTIAL COMPLETION.
- THE CONTRACTOR SHALL REPAIR AND RESTORE TO ORIGINAL CONDITION ANY EXISTING EQUIPMENT OR MATERIALS DAMAGED I THE PROCESS OF INSTALLATION, AND DEMOLITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL MAKE REPAIRS USING THE SAME MATERIALS, AT THE CONTRACTOR'S COST.
- THE CONTRACTOR SHALL INCUR ALL COSTS AND BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT AND MATERIALS
- 2. DAILY, DURING DEMOLITION AND DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND EXCESS MATERIAL ACCUMULATED AS A RESULT OF HIS OPERATIONS. ALL AREAS AND EQUIPMENT AFFECTED UNDER THIS CONTRACT SHALL BE CLEAN OF DUST AND DEBRIS BEFORE FINAL ACCEPTANCE BY THE OWNER.
- PROVIDE FOR LEGAL REMOVAL AND DISPOSAL OF ALL RUBBISH AND DEBRIS FROM THE BUILDING AND SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
- 4. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.
- 15. OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC
- 6. PAINT AND TOUCH-UP ALL SURFACES MARRED BY PERFORMANCE OF THE WORK.
- ALL WORK DESCRIBED ON THE M-SERIES DRAWING SHEETS SHALI BE PERFORMED / FURNISHED & INSTALLED BY THE MECHANICAL CONTRACTOR UNLESS OTHER WISED NOTED.
- 8. THE MECHANICAL CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN THE BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS BID) INDICATED AS (M.C.) MECHANICAL WORK.
- MECHANICAL CONTRACTOR IS RESPONSIBLE TO CORE DRILL ALL NEW WALL/ FLOOR PENETRATIONS FOR PIPING REQUIRED FOR CONNECTION TO NEW EQUIPMENT.
- 0. ALL NEW PIPING PENETRATIONS SHALL INCLUDE PENETRATION SLEEVES LARGE ENOUGH TO INCLUDE PIPING INSULATION. REFER TO SPECIFICATIONS FOR SLEEVE TYPE.
- . ALL NEW ROOF TOP EQUIPMENT SHALL MAINTAIN A (10) TEN FOOT MINIMUM CLEARANCE DISTANCE FROM ROOF END.
- 22. M.C. IS RESPONSIBLE FOR ALL NECESSARY CONTROL WIRING FOR ALL EQUIPMENT LISTED.

DRAWING NOTES

- NATURAL GAS-FIRED UNIT HEATER, SEPARATED COMBUSTION, 45 MBH INPUT CAPACITY, AXIAL FAN, 120 VAC, 2.4 FLA, 4" VENT, 4 COMBUSTION AIR INLET; REZNOR UDZ45 OR EQUAL.
- PROVIDE CONCENTRIC ADAPTER BOX FOR VERTICAL VENT/INTAKE ASSEMBLY. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 36 x 30 LOUVER ABOVE DOOR WITH LOW LEAKAGE DAMPER AND 120VAC ACTUATOR.
- REFRIGERANT LINE SET, POWER AND CONTROL WIRING UP THROUGH ROOF TO OUTDOOR UNIT. SEE ROOF PLAN FOR CONTINUATION.
- (5) 3/4" SCHEDULE 80 PVC CONDENSATE DRAIN. OFFSET THROUGH EXTERIOR WALL 12" AFG. SPILL TO GRADE.
- (6) TRANSITION TO 24/24 HEMMED EDGE WITH BIRD SCREEN.

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Sheet Title

MECHANICAL **PLANS**

CONSTRUCTION DOCUMENTS

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| | SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | | |
|------------------|--------------------------------------|------------|-----|------|-----------------|-----------------------------------|-----------------------|-------------------|----------|-----------------|-------------|---|---|------------|---------|----------------------|---|--------------------|--------------------|------|---------|
| INDOOR UNIT DATA | | | | | | | | OUTDOOR UNIT DATA | | | | | | | | SYSTEM DATA | | | | | |
| TAG | LOCATION | TYPE | MCA | FLA | WEIGHT (LBS) | COOLING AIRFLOW DRY COIL (CFM) | DESIGN BASIS | TAG | LOCATION | WEIGHT (LBS) | REFRIGERANT | HEATING MODE OPERATING RANGE (°F) | COOLING MODE OPERATING RANGE (°F) | ELECTRICAL | MCA MOC | DESIGN BASIS | RATED COOLING CAPACITY AT 95°F (BTUH) | HEATING AT 47°F | HEATING AT 17°F | SEER | NOTES |
| IU-1 | OFFICE 200 | WALL MOUNT | 1 | 0.19 | 28 | 265-310-385-455 | TRANE TPKAOA0181LA00A | OU-1 | ROOF | 100 | R410A | 12 - 70 | 0 - 115 | 208/1 | 11 25 | TRANE TRUZA0181KA70A | 18,000 | 19,000 | 13,600 | 19.8 | (1) (2) |

1. PROVIDE QUICK-SLING MINI-SPLIT STAND FOR ROOF MOUNTED OUTDOOR UNIT.

| ١. | PROVIDE QUICK-SLING WINI-SPLIT STAND FOR ROOF MC |
|----|--|
| 2. | PROVIDE TAR-CT01MAU-SB TOUCH MA CONTROLLER. |

| PANEL RADIATOR SCHEDULE | | | | | | | | | | | | | |
|-------------------------|--------|------------|-------|-------|------------|-------|-----------------------------------|-----------------------------------|---------|--|--|--|--|
| | | DIMENSIONS | 3 | | ВТИ ОИТРИТ | - | DESIGN | | | | | | |
| TAG | HEIGHT | LENGTH | DEPTH | 180°F | 160°F | 140°F | BUDERUS MODEL 21 (PART NUMBER) | BUDERUS MODEL 22 (PART NUMBER) | NOTES | | | | |
| RAD-1 | 24 | 48 | 4 | 8139 | 6092 | 4218 | _ | 7-750-103-612 | (1) (2) | | | | |
| RAD-2 | 24 | 48 | 4 | 8139 | 6092 | 4218 | _ | 7-750-103-612 | (1) (2) | | | | |
| RAD-3 | 24 | 36 | 2.5 | 4706 | 3526 | 2443 | 7-750-103-309 | _ | (1) (2) | | | | |

PROVIDE ISOLATION VALVES AT RADIATOR SUPPLY AND RETURN CONNECTION.
 PROVIDE DANFOSS THERMOSTATIC RADIATOR VALVE.

| TAG TYPE DUCT SIZE BLADE BLADE TYPE MOUNTING BORDER STYLE FASTENING MATERIAL FINISH OF | | |
|---|---------------------|--------------|
| TAG TYPE DUCT SIZE SPACING BLADE TYPE MOUNTING BORDER STYLE FASTENING MATERIAL FINISH OI | BLADE RIENTATION | DESIGN BASIS |
| EG-A EXHAUST GRILLE 8 x 8 1/2 45° FIXED SURFACE FILTER FRAME CONCEALED BRACKET ALUMINUM WHITE | NA | PRICE 635 |

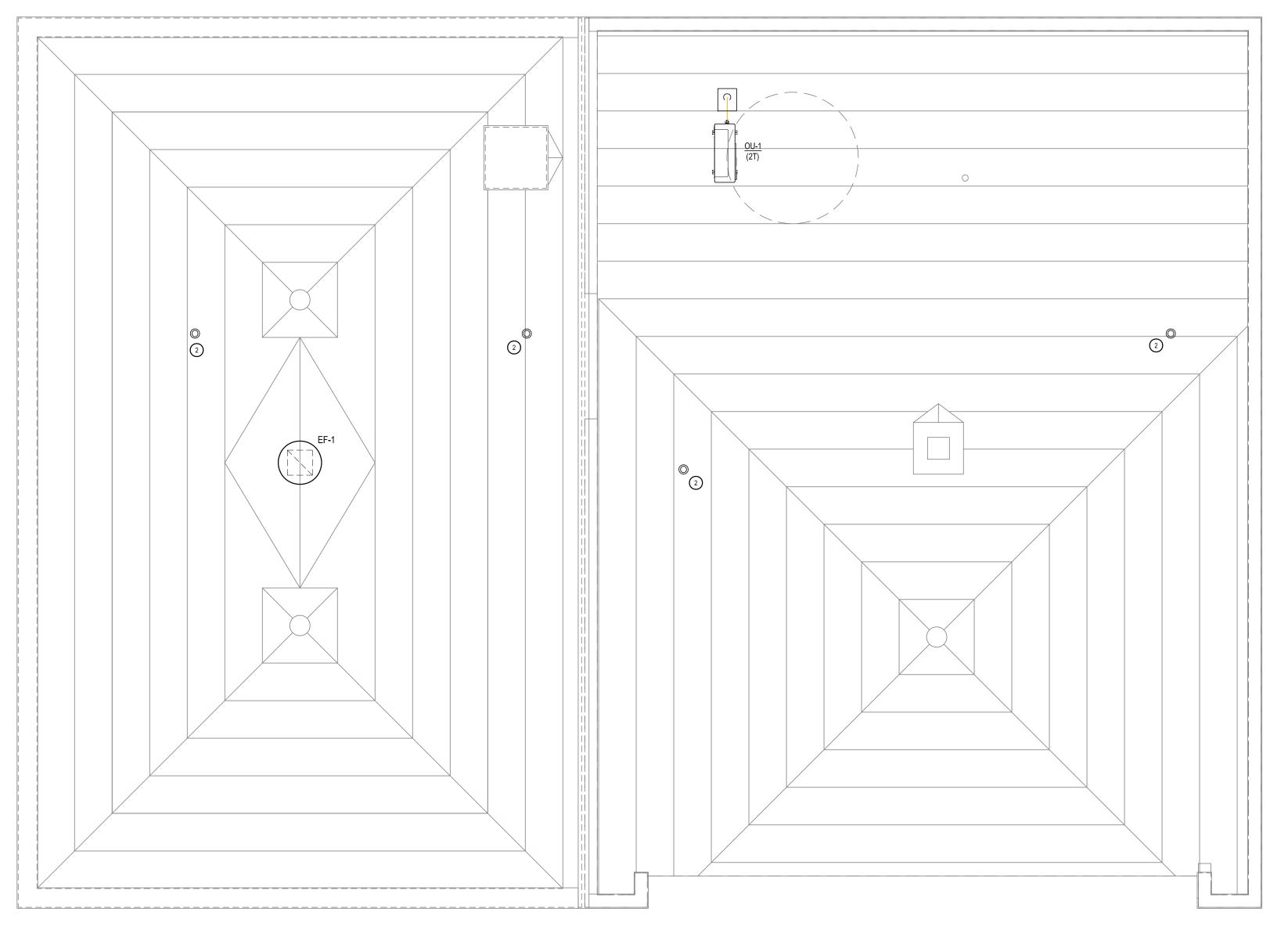
| | FAN SCHEDULE | | | | | | | | | | | | | |
|------|--------------|----------------|------------|--------------------|------|---------------|--------|-------|-----|-------|---------|---------------------|----------------------|-------|
| | | | ELECTRICAL | | AL | MOTOR CONTROL | | | | | | | | |
| TAG | SERVICE | TYPE | CFM | S.P. (IN. W.C.) | RPM | ВНР | DRIVE | SONES | HP | WATTS | VOLTAGE | TYPE | DESIGN BASIS | NOTES |
| EF-1 | BAY 3 | ROOF DOWNBLAST | 1792 | 0.375 | 1140 | 0.31 | DIRECT | 10.4 | 1/3 | _ | 115 | WALL SWITCH BY E.C. | GREENHECK G-140 | (1) |
| EF-2 | TOILET 109 | REMOTE INLINE | 108 | 0.30 | 1596 | _ | DIRECT | _ | _ | 25.6 | 115 | WALL SWITCH BY E.C. | PANASONIC FV-10NLF1E | |
| EF-3 | SHOWER 107 | REMOTE INLINE | 108 | 0.30 | 1596 | _ | DIRECT | _ | _ | 25.6 | 115 | WALL SWITCH BY E.C. | PANASONIC FV-10NLF1E | |
| | | | | | | | | | | | | | | |

1. PROVIDE 14" ROOF CURB WITH BACKDRAFT DAMPER.

| | | | | | | GAS | S-FIRED | UNIT | HEATE | R SCHE | EDULE | | | | | | |
|------|-------------|-------|--------|-------------------|----------------------------|--------|---------|----------|-------|--------|---------|---------|------|----------|---------------|---------------------|--|
| | HEATING | | | | | | | FAN DATA | | | | | | | | | |
| TAG | | INPUT | OUTPUT | VENT DIA. (IN) | COMBUSTION INLET DIA. (IN) | WEIGHT | | | | AIRFLO | W (CFM) | | | | DESIGN BASIS | NOTES | |
| | FUEL (MBH) | | (MBH) | (114) | INCET DIA. (IN) | | TYPE | SIZE | HP | MAX | MIN | VOLTAGE | MOCP | UNIT FLA | | | |
| UH-1 | NATURAL GAS | 60 | 49.2 | 4 | 4 | 103 | BLOWER | 9×6 | 1/3 | 1012 | 607 | 115 | 15 | 7.1 | REZNOR UBZ-60 | (1) (2) (3) (4) (5) | |
| UH-2 | NATURAL GAS | 60 | 49.2 | 4 | 4 | 103 | BLOWER | 9×6 | 1/3 | 1012 | 607 | 115 | 15 | 7.1 | REZNOR UBZ-60 | (1) (2) (3) (4) (5) | |
| UH-3 | NATURAL GAS | 60 | 49.2 | 4 | 4 | 103 | BLOWER | 9×6 | 1/3 | 1012 | 607 | 115 | 15 | 7.1 | REZNOR UBZ-60 | (1) (2) (3) (4) (5) | |
| UH-4 | NATURAL GAS | 60 | 49.2 | 4 | 4 | 103 | BLOWER | 9x6 | 1/3 | 1012 | 607 | 115 | 15 | 7.1 | REZNOR UBZ-60 | (1) (2) (3) (4) (5) | |

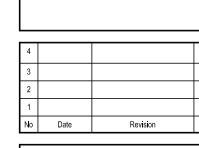
PROVIDE TYPE 409 STAINLESS STEEL HEAT EXCHANGERS.
 VERTICAL COMBUSTION VENT KIT WITH CONCENTRIC ADAPTER.
 INTEGRATED 60° DOWNTURN NOZZLES.
 FACTORY DISCONNECT SWITCH.

5. 24VAC CONTROL TRANSFORMER AND SPACE THERMOSTAT.



DRAWING NOTES

- 1 NATURAL GAS-FIRED UNIT HEATER, SEPARATED COMBUSTION, 45 MBH INPUT CAPACITY, AXIAL FAN, 120 VAC, 2.4 FLA, 4" VENT, 4" COMBUSTION AIR INLET; REZNOR UDZ45 OR EQUAL.
- PROVIDE CONCENTRIC ADAPTER BOX FOR VERTICAL VENT/INTAKE ASSEMBLY. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
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- 6 TRANSITION TO 24/24 HEMMED EDGE WITH BIRD SCREEN.



SCHAEFER

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MECHANICAL **ROOF PLAN**

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MECHANICAL ROOF PLAN

GRAPHIC SCALE: 1/4" = 1'-0"

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