

# MIDLOTHIAN INDEPENDENT SCHOOL DISTRICT

## T.E. BAXTER ES

1050 Park Pl Blvd, Midlothian, TX 76065

### HVAC REPLACEMENT

### APRIL 28, 2023



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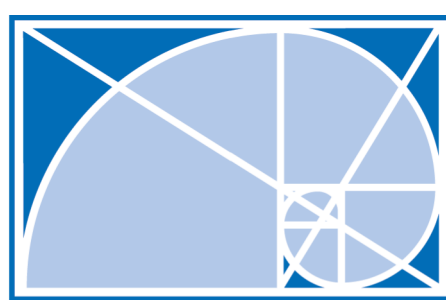
SHEET NO. DESCRIPTION

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RWB PROJECT # 22146.00

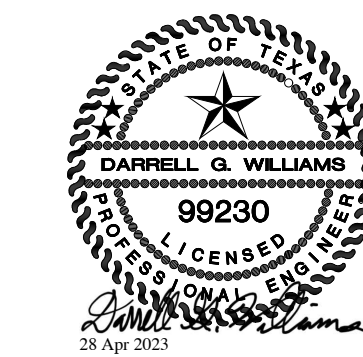


**L.A. FUESS PARTNERS**  
Structural Engineers



Location Map





2023.04.28

## ISSUES

01	ISSUE FOR CONSTRUCTION	2023.04.28
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#### **REVISIONS**

[illegible]

**T.E. BAXTER ES**  
**HVAC REPLACEMENT**  
MIDLOTHIAN I.S.D.  
1050 Park Pl Blvd, Midlothian, TX 76065

DEMOLITION ROOF  
PLAN - MPE

JOB NO.: 22146-00  
DRAWN BY: ND  
CHECKED BY: HV/N

SHEET NO.

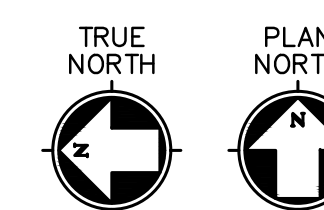
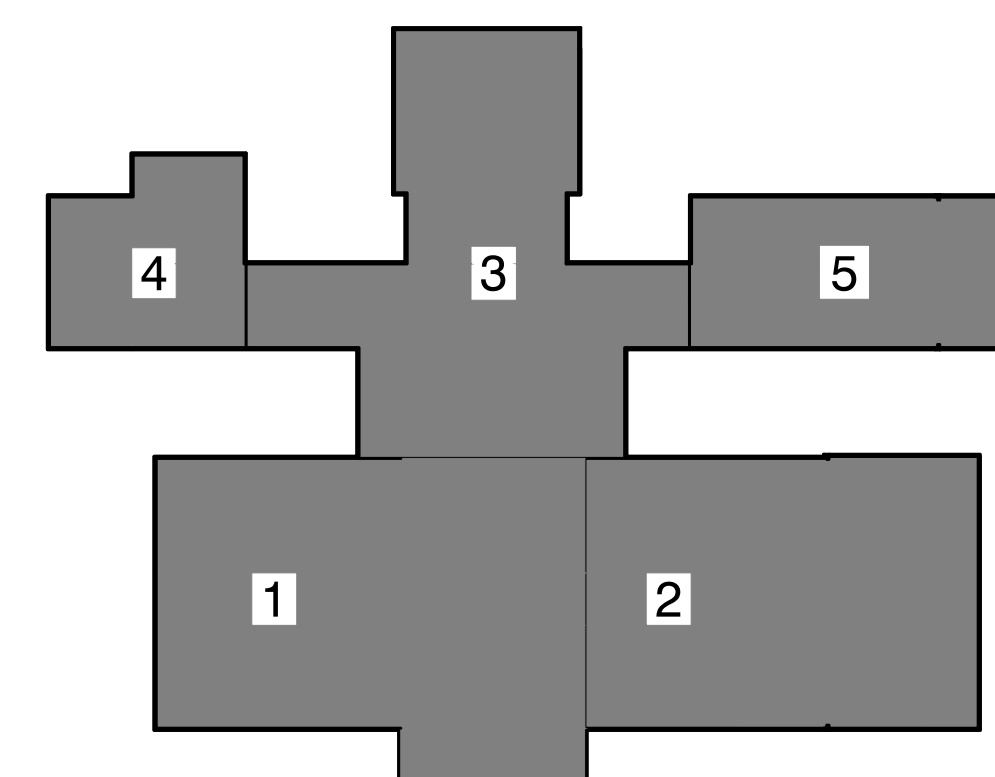
DMPE1.01

GENERAL DEMOLITION NOTES:

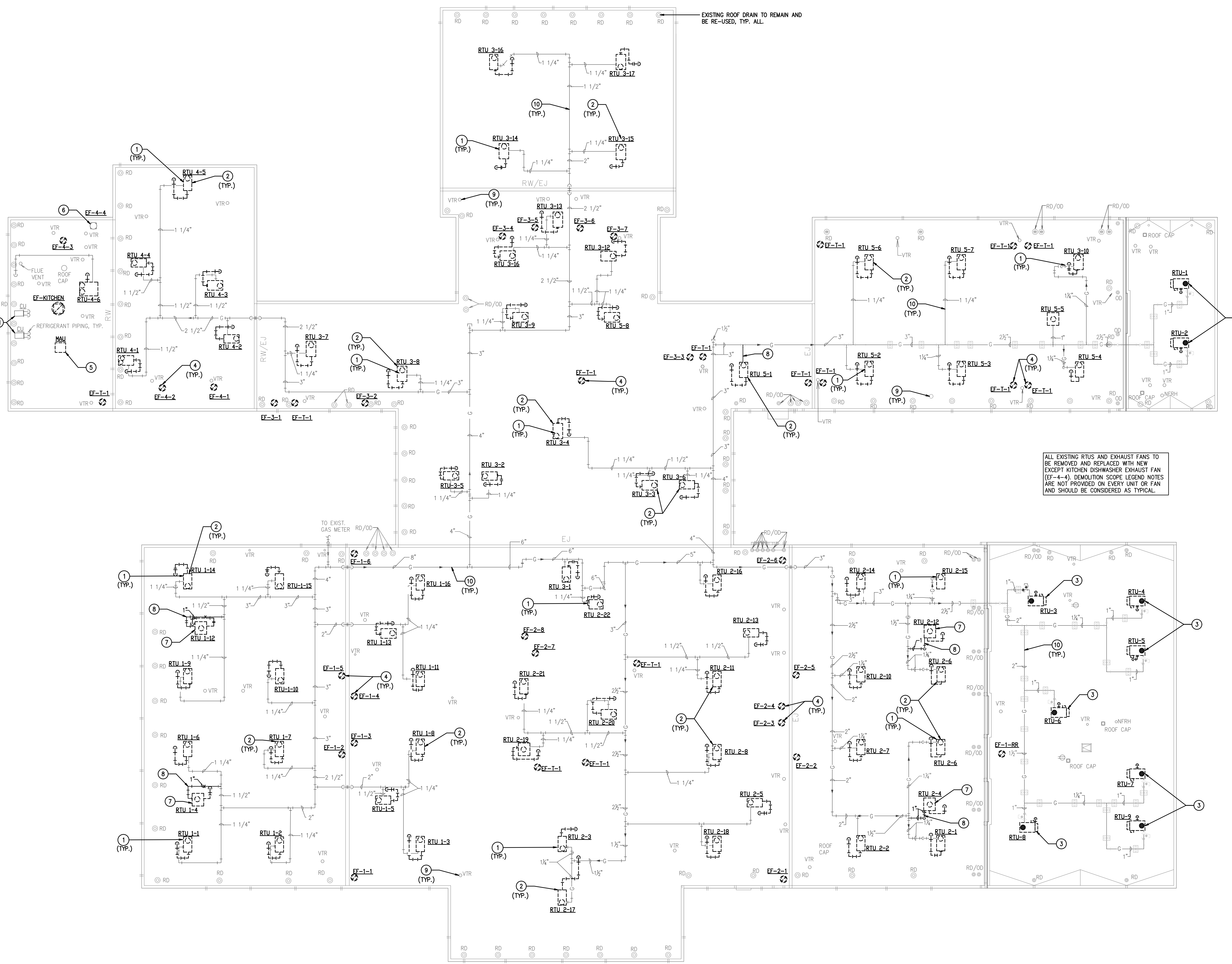
1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR VISUAL VERIFICATION PRIOR TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK THAT WILL BE REQUIRED. THE CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND ALL NEARBY UTILITIES TO DETERMINE THE LOCATION OF ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE RELATION TO, AND EFFECT ON, THE WORK REQUIRED BEFORE SUBMITTING A BID. SUBMITTALS SHALL BE REVIEWED BY THE CONTRACTOR THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.
2. EXISTING MEW ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE DEPARTMENT AND OTHER TRADES PERFORMING WORK ON THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT WILL EFFECT OTHER SYSTEMS WITHIN THE LIMIT OF NEW CONSTRUCTION WORK. AFTER AREAS ARE CLEARED, THE CONTRACTOR SHALL BE OCCUPIED DURING CONSTRUCTION, AND, THEREFORE, UTILITIES MUST BE MAINTAINED IN OPERATION AT ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
4. PRIOR TO THE REMOVAL OF ANY MEW ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT WILL REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS).
5. CONTRACTOR SHALL CONTACT CONTROLS SYSTEM INSTALLER (ENVIROMATICS) (RELIABLE) CONTROLS BEFORE ANY DEMOLITION WORK IS STARTED TO ALLOW THEM TO TAG & IDENTIFY ITEMS TO REMAIN AND BE REMOVED. ITEMS TO BE REMOVED SHALL INCLUDE ALL CONTROLS IN EQUIPMENT DESIGNATED FOR REMOVAL. SHALL BE CAREFULLY REMOVED AND STORED BY CONTROLS CONTRACTOR AND RE-INSTALLED IN NEW BUILDING ON GO2000.
6. DO NOT ABANDON ANY ITEMS IN PLACE. REMOVE ALL COMPONENTS ASSOCIATED WITH EACH ITEM CALLED OUT TO BE REMOVED, WHERE ITEMS ARE REMOVED PATCH/REPLACE ROOF, WALLS, CEILING OR FLOOR, AS APPLICABLE, TO MATCH EXISTING FINISHES.
7. REMOVE ELECTRICAL CONNECTIONS TO EXISTING MECHANICAL AND PLUMBING EQUIPMENT BEFORE REMOVAL.
8. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UTILS WITH THE DESIGNER. FOLLOWING DISCUSSION TO RECLAIM ANY EXISTING UNIT, UNIT COMPONENT, AND MATERIAL FOR THEIR PURPOSES.
9. CONTRACTOR SHALL CAPTURE ALL EXISTING R-22 REFRIGERANT FROM ALL EQUIPMENT. REMOVED TO DISTRICT IN STANDARD SIZE REFRIGERANT CONTAINERS. DISTRICT TO PROVIDE CONTAINERS FOR REFRIGERANT TO BE USED BY THE CONTRACTOR. CONTRACTOR SHALL UTILIZE A CERTIFIED REFRIGERANT RECOVERY TECHNICIAN TO EVACUATE AND CONDITIONALLY RECYCLE REFRIGERANT. CONTRACTOR SHALL RECOVER THE REFRIGERANT IN ACCORDANCE TO 40 CFR 82 AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION BEFORE STARTING DEMOLITION AND REMOVAL OF THE EQUIPMENT. CONTRACTOR SHALL PROVIDE A STATEMENT SIGNED BY REFRIGERANT RECOVERY TECHNICIAN RESPONSIBLE FOR RECOVERING REFRIGERANT, STATING THAT ALL REFRIGERANT THAT WAS RECOVERED WAS RECYCLED. THE STATEMENT SHALL BE PERFORMED ACCORDING TO EPA REGULATIONS, INCLUDE NAME AND ADDRESS OF TECHNICIAN AND DATE REFRIGERANT WAS RECOVERED.
10. WATER JET AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES PRIOR TO RE-CONNECTING CONDENSATE DRAIN PIPING SYSTEM. TEST EXISTING CONDENSATE DRAIN SYSTEM WITH WATER AFTER RE-CONNECTING TO THE LINE. IF LEAKS ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE.
11. ALL EXISTING CONDENSATE DRAIN OR GAS PIPING ROOF SUPPORTS ABANDONED IN PLACE. REMOVE THE ROOF PATCHING TO BE REMOVED AS REQUIRED WITHIN AREAS OF THE SCOPE OF WORK.
12. FEEDERS OR BRANCH CIRCUIT ELECTRICAL CONNECTIONS TO EXISTING MECHANICAL AND PLUMBING EQUIPMENT BEING REMOVED ARE TO BE DISCONNECTED AND SHALL REMAIN FOR REUSE WITH NEW EQUIPMENT. REPAIR OR REPLACE AND RE-INSTALL AFTER THE EQUIPMENT IS TO BE REMOVED. PROVIDE NEW DISCONNECT SWITCHES, WIRING, AND/OR CIRCUIT BREAKERS FOR NEW EQUIPMENT AS INDICATED ON PLANS.
13. EXISTING 120V ROOFTOP RECEPTACLE BRANCH CIRCUITS SHALL REMAIN FOR REUSE WITH NEW WEATHERPROOF COVERED GFCI ROOFTOP RECEPTACLE. INTERFERE WITH THE REMOVAL OF THE EQUIPMENT.

## NOTES BY SYMBOL '○':

- 1 REMOVE EXISTING NATURAL GAS ASSEMBLY FEEDING EXISTING ROOFTOP UNIT AND CAP FOR FUTURE CONNECTION TO NEW ROOF TOP UNIT. REFER TO DETAIL "1" ON DRAWING MP2.01 FOR POINT OF DISCONNECTION.
- 2 EXISTING ROOF TOP UNIT TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT AND REMOVE EXISTING ELECTRICAL CONNECTION AT UNIT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXISTING ELECTRICAL PROVISIONS AND COORDINATE WITH NEW UNIT REQUIREMENTS PRIOR TO BID. DISCONNECT CONDENSATE PIPING AND GAS PIPING AND PREPARE FOR NEW UNIT CONNECTIONS. REMOVE CONDENSATE PIPING BACK TO ROOF PENETRATION. REFER TO NEW ROOF TOP UNIT SHEET FOR DETAILS ON NEW SCOPE OF WORK. EXISTING ADAPTER CURBS TO BE REMOVED AND THE ORIGINAL ROOF CURB TO REMAIN AND BE RE-USED.
- 3 EXISTING ROOF TOP UNIT TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT AND REMOVE EXISTING ELECTRICAL CONNECTION AT UNIT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXISTING ELECTRICAL PROVISIONS AND COORDINATE WITH NEW UNIT REQUIREMENTS PRIOR TO BID. DISCONNECT CONDENSATE PIPING AND GAS PIPING AND PREPARE FOR NEW UNIT CONNECTIONS. REMOVE CONDENSATE PIPING BACK TO ROOF PENETRATION. REFER TO NEW ROOF TOP UNIT SHEET FOR DETAILS ON NEW SCOPE OF WORK. EXISTING ROOF CURB TO REMAIN AND BE RE-USED.
- 4 EXISTING EXHAUST FAN TO BE REMOVED AND EXISTING POWER TO BE DISCONNECTED AND RE-CONNECTED TO NEW FAN. REFER TO NEW ROOF PLAN FOR ELECTRICAL POWER REQUIREMENTS. ROOF CURB TO REMAIN AND BE RE-USED.
- 5 EXISTING MAKE-UP AIR FAN TO BE REMOVED AND EXISTING POWER TO BE DISCONNECTED AND RE-CONNECTED TO NEW FAN. REFER TO NEW ROOF PLAN FOR ELECTRICAL POWER REQUIREMENTS. ROOF CURB TO REMAIN AND BE RE-USED.
- 6 EXISTING EXHAUST FAN TO REMAIN AND BE RE-USED. REPLACE EXISTING FAN TAG WITH NEW.
- 7 EXISTING RTU TO BE REMOVED. EXISTING ELECTRICAL, POWER, AND CONTROLS CONDUIT AND WIRING TO BE REMOVED BACK TO SOURCE. EXISTING GAS PIPING TO BE REMOVED BACK TO MAIN AND CAPPED. CONDENSATE PIPING TO BE REMOVED BACK TO DRAIN LOCATION OR BACK TO MAIN AND CAPPED. CAP ROOF CURB AND SEAL AT PENETRATION. PROVIDE INSULATED ROOF CURB WITH ANGLE IRON OR C-CHANNEL STIFFENERS. MIN INSULATING VALUE OF CURB TO BE 2" R-4 BOARD INSULATION. PATCH AND SEAL EXISTING PIPING PENETRATION WATER TIGHT TO MATCH EXISTING ROOF.
- 8 EXISTING GAS PIPING TO BE REMOVED BACK TO MAIN LINE AND CAPPED.
- 9 EXISTING PLUMBING VENT TO REMAIN AND BE RE-USED.
- 10 EXISTING GAS PIPING TO REMAIN AND BE RE-USED.
- 11 EXISTING FREEZER COOLER CONDENSING UNITS AND ASSOCIATED REFRIGERANT PIPING TO REMAIN AND BE RE-USED.



## KEYPLAN



ALL EXISTING RTUS AND EXHAUST FANS TO BE REMOVED AND REPLACED WITH NEW EXCEPT KITCHEN DISHWASHER EXHAUST FAN (EF-4-4). DEMOLITION SCOPE LEGEND NOT ARE NOT PROVIDED ON EVERY UNIT OR FAN AND SHOULD BE CONSIDERED AS TYPICAL.

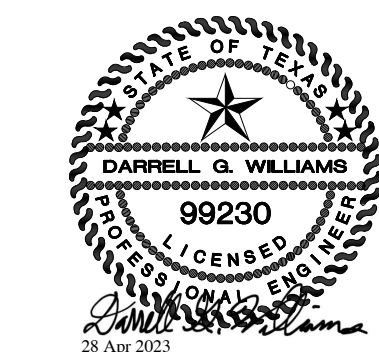
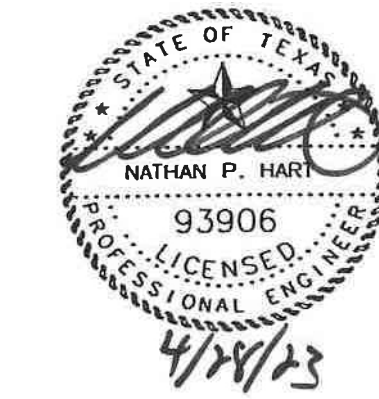


01

A DEMOLITION ROOF PLAN - MPF

SCALE: 1/16" = 1'-0"





2023.04.28

## ISSUES

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[illegible]

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ROOF PLAN - MPE

JOB NO.: 22146-00  
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CHECKED BY: HV/NH

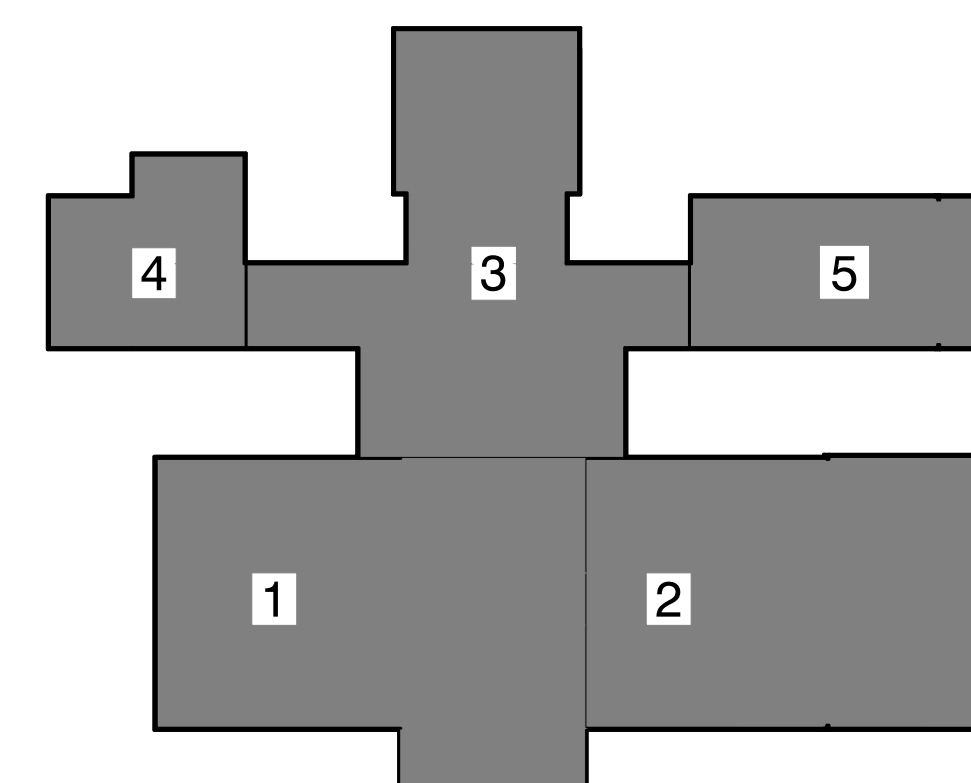
MPE1.01

GENERAL MPE NOTES:

1. LOCATE EQUIPMENT IN GENERAL LOCATIONS SHOWN ON EXISTING OR NEW ROOF CURBS AS NOTED. PROVIDE ADAPTER CURBS TO ACCOMMODATE NEW UNIT FOR ALL EXISTING CURBS TO BE RE-USED.
2. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM PLUMBING VENTS AND EXHAUST FANS TO OUTSIDE AIR INTAKES.
3. ALL DISCONNECTS SHALL BE NEMA 3R AND PROVIDED BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
4. ALL RECEPTACLES SHALL BE WEATHER PROOF GFI OUTLETS.
5. FURNISH AND INSTALL RETURN AIR MOUNTED SMOKE DETECTOR DETECTORS FOR ALL ROOF TOP UNITS OVER 2000 CFM OR PROVIDE AREA SMOKE DETECTORS FOR UNITS SERVING COMMON SPACES. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON MP3.01. PROVIDE ASSOCIATED WIRING AND PARTS FOR A COMPLETE WORKING SYSTEM. CONTACT TO EXISTING FIRE ALARM SYSTEM.
6. PROVIDE P-TRAP AT ROOF-TOP UNITS AND CONNECT NEW CONDENSATE DRAIN PIPING TO EXISTING CONDENSATE DRAIN PIPING, WHERE SUCH EXISTS, AT ROOF LEVEL FOR ALL ROOF-TOP UNITS. UNLESS NOTED OTHERWISE, ALL CONDENSATE PIPING SHALL ROUTE TO BELOW ROOF.
7. COORDINATE ALL WORK WITH THE STRUCTURAL AND ROOFING SYSTEMS INSTALLED TO INCLUDE SUPPORTS FOR EQUIPMENT.
8. ALL ROOF PENETRATIONS, ROOF PIPE SUPPORTS, FLASHING, ETC., SHALL BE WATERPROOF AND BE INSTALLED AS RECOMMENDED BY THE ROOF SYSTEM MANUFACTURER.
9. ALL CONDENSATE DRAIN PIPING DOWN FROM UNIT TO BELOW ROOF TO PENETRATE A MINIMUM OF 18" FROM THE EXISTING UNIT ROOF CURB TO ALLOW FOR PROPER ROOF FLASHING.
10. WATER JET AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES PRIOR RE-CONNECTING NEW UNITS TO EXISTING CONDENSATE PIPING SYSTEMS.
11. CONTRACTOR TO COORDINATE WITH AND USE "FLYNN ROOFING" FOR ALL ROOFING AND FLASHING WORK. CONTACT DET RISING (817)-662-6399.
12. CONTRACTOR TO RE-TEST ENTIRE GAS SYSTEM UPON COMPLETION OF ALL GAS WORK. AND RETURN TO THE CITY TO OBTAIN THE TEST RESULTS. CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING AND REPAIRING GAS PIPING ISSUES ASSOCIATED WITH WORK RELATED TO NEW ROOF-TOP UNITS.
13. NOT ALL GAS OR CONDENSATE PIPE SUPPORTS ARE FULLY SHOWN. CONTRACTOR SHALL INSTALL SUPPORTS, AS DETAILED, IN THE LOCATIONS AS PER THE FOLLOWING CRITERIA:
  - a. WITHIN 3'-0" OF ALL EQUIPMENT CONNECTIONS.
  - b. WITHIN 2'-0" OF EACH CHANGE OF DIRECTION, ELBOW AND TEE.
  - c. NOT MORE THAN ANY 10'-0" ON CENTER BEYOND THOSE REQUIRED ABOVE.
14. CONDENSATE DRAIN PIPING ROUTED DOWN FROM UNIT TO BELOW THE ROOF SHALL PENETRATE THE ROOF A MINIMUM OF 18" FROM THE ROOF CURB TO ALLOW FOR PROPER ROOF FLASHING.
15. ALL NEW MECHANICAL/ELECTRICAL CURBS SHALL BE THE MINIMUM HEIGHT AS REQUIRED BY THE ROOFING VENDOR TO MEET THE ROOFING WARRANTY. PROVIDE TALLER CURBS AS REQUIRED TO MEET THE MINIMUM HEIGHT REQUIREMENTS. MINIMUM HEIGHT OF ALL NEW CURBS TO BE 18" TALL. WHERE NOT SPECIFIED ELSEWHERE ON DRAWINGS.
16. ALL MECHANICAL, ELECTRICAL AND/OR PLUMBING PENETRATIONS SHALL OCCUR BEYOND 24" FROM THE ROOF PARAPET IN ORDER TO ALLOW FOR PROPER ROOF FLASHING.
17. ALL REPLACED HVAC EQUIPMENT IS INTENDED TO BE FED FROM EXISTING BRANCH CIRCUITS MADE AVAILABLE BY DEMOLITION OF EXISTING HVAC EQUIPMENT.
18. PROVIDE NEW PANEL DIRECTORY AND LABEL EACH CIRCUIT WITH CORRECT NOTATION FOR ANY AND ALL REVISED UNIT LABELS OR CIRCUITING, WHERE THERE ARE. ALL NEW UNITS SERVED BY A SINGLE BREAKER/CIRCUIT, THE CIRCUIT SHALL BE LABELED WITH ALL UNITS SERVED BY ASSOCIATED CIRCUIT. DO NOT LABEL ANY CIRCUITS AS "EXISTING LOAD".
19. WATER JET AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES TO BE RE-USED PRIOR TO RE-CONNECTING NEW UNITS TO EXISTING CONDENSATE PIPING SYSTEM.
20. CONTRACTOR SHALL VERIFY WITH OWNER ALL MECHANICAL EQUIPMENT TAGS (RTUS, SPLIT DX AC UNITS, AND EXHAUST FANS) AND SHALL MATCH THE PERMANENT ROOM NUMBERS AS NEEDED PER OWNER'S DIRECTION, REFER TO FLOOR PLANS FOR ROOM NUMBERS AND NAMES.
21. CONTRACTORS SHALL FIELD VERIFY AND REPAIR ALL EXISTING TO REPAIR MAINFOLD RACEWAYS FOUND NOT TO BE IN SERVICEABLE CONDITION. REPLACE RACEWAYS, FITTINGS, AND CONNECTIONS, IF NECESSARY TO MAINTAIN WEATHERIGHT CONDITION, SHALL BE FIELD REPAIR BY CODE.

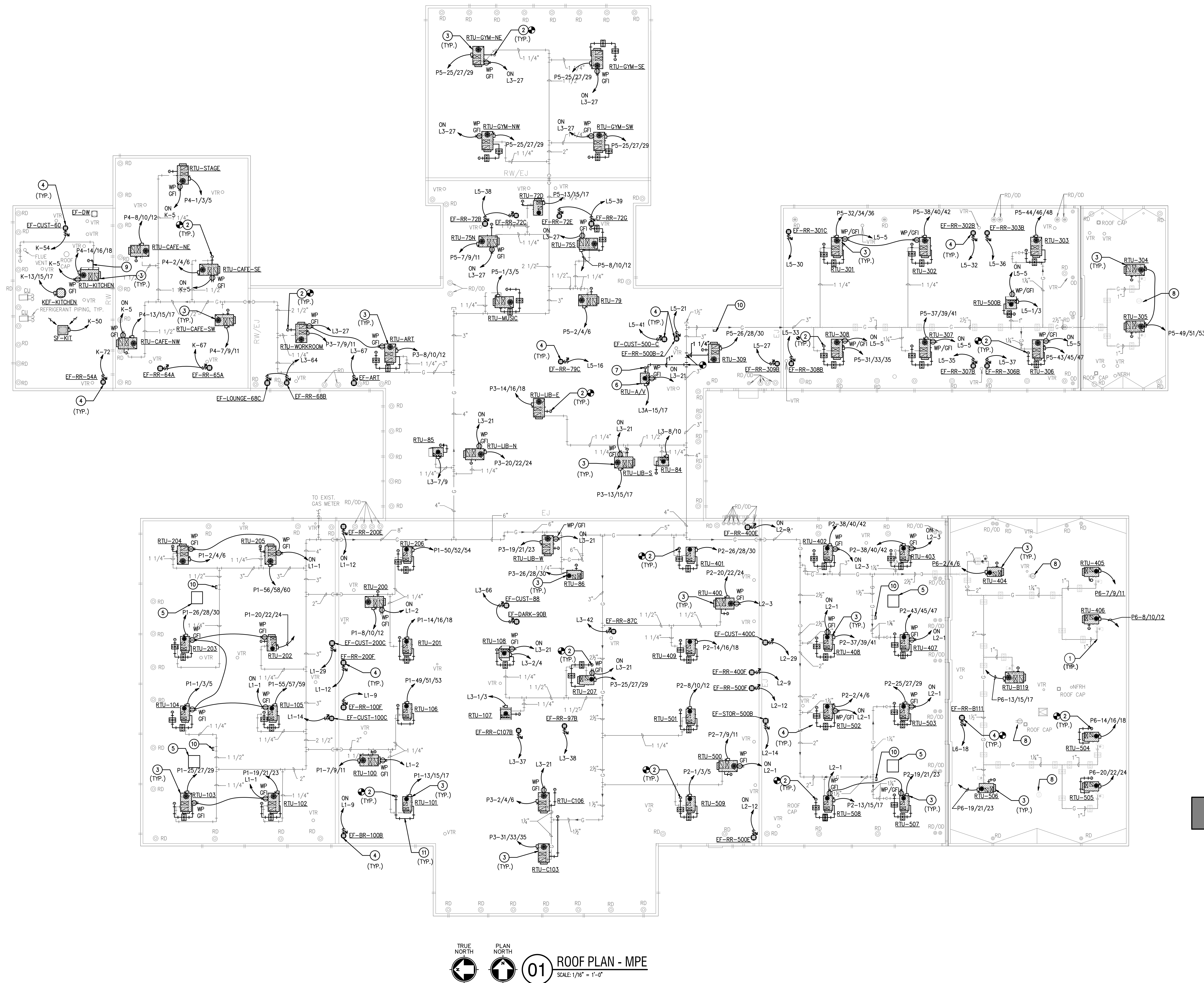
## NOTES BY SYMBOL '○':

- 1 CONTRACTOR TO REPLACE EXISTING NATURAL GAS ASSEMBLY TO NEW ROOF TOP UNIT. REFER TO DETAIL "1" ON DRAWING MP2.01 FOR GAS CONNECTION TO ROOF TOP UNIT DETAIL. EXTEND PIPING AND ADD ROOF TOP SUPPORTS AS REQUIRED FOR FINAL CONNECTION TO UNIT.
- 2 INSTALL 3/4" CONDENSATE DRAIN WITH P-TRAP. CONNECT NEW CONDENSATE DRAIN PIPING TO EXISTING ABOVE ROOF PENETRATION. IN CASE EXISTING PIPING IS TOO CLOSE TO THE UNIT AND IT IS NOT POSSIBLE TO CONNECT NEW PIPING, A NEW ROOF PENETRATION CAN BE MADE AND CONNECT TO EXISTING CD PIPING BELOW ROOF. PATCH, REPAIR, AND SEAL EXISTING ROOF PENETRATION, WATER TIGHT TO MATCH EXISTING ROOF.
- 3 NEW ROOF-TOP UNIT IN PLACE OF EXISTING. PROVIDE MIN. 18" TALL ADAPTER CURB TO ACCOMMODATE DUCT TRANSITIONS FROM EXISTING TO NEW. PROVIDE TALLER CURB IF REQUIRED.
- 4 MIN. 6" TALL ADAPTER CURB OR CURB EXTENSION SHALL BE PROVIDED TO INSTALL NEW FAN ON EXISTING CURB.
- 5 INSULATED CAPPED CURB.
- 6 NEW ROOF TOP UNIT WITH NEW CURB. REFER TO STRUCTURAL DRAWINGS FOR ROOF FRAMING DETAILS.
- 7 INSTALL NEW 3/4" CONDENSATE DRAIN WITH P-TRAP. PIPE TO RUN BELOW ROOF AND ABOVE CEILING TO NEAREST CONNECTION POINT. PATCH, REPAIR, AND SEAL NEW ROOF PENETRATION, WATER TIGHT TO MATCH EXISTING ROOF.
- 8 EXISTING WEATHERPROOF GFI ROOF RECEPTACLE TO REMAIN.
- 9 NEW CONDENSATE PIPE SUPPORT, TYP.. REFER TO DETAIL "02" ON SHEET MP2.01
- 10 CAP REMOVED GAS PIPE BRANCH CONNECTION AT MAIN LINE.
- 11 1" CONDENSATE DRAIN WITH P-TRAP, CONNECT TO EXISTING CD PIPING ABOVE ROOF PENETRATION.



TRUE NORTH      PLAN NORTH

KEYPLAN





ISSUES		
Q1	ISSUE FOR SUBMISSION	ISSUE DATE

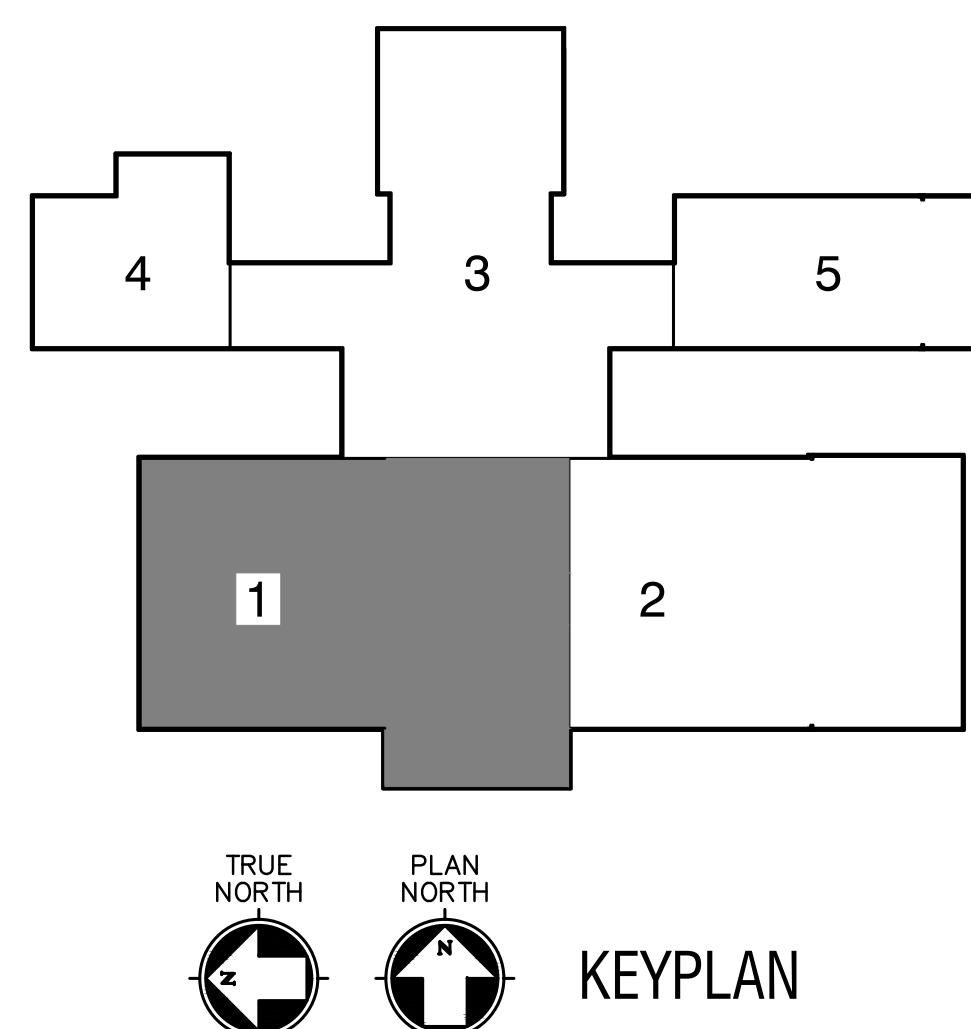
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SHEET NO.

## DM1.01



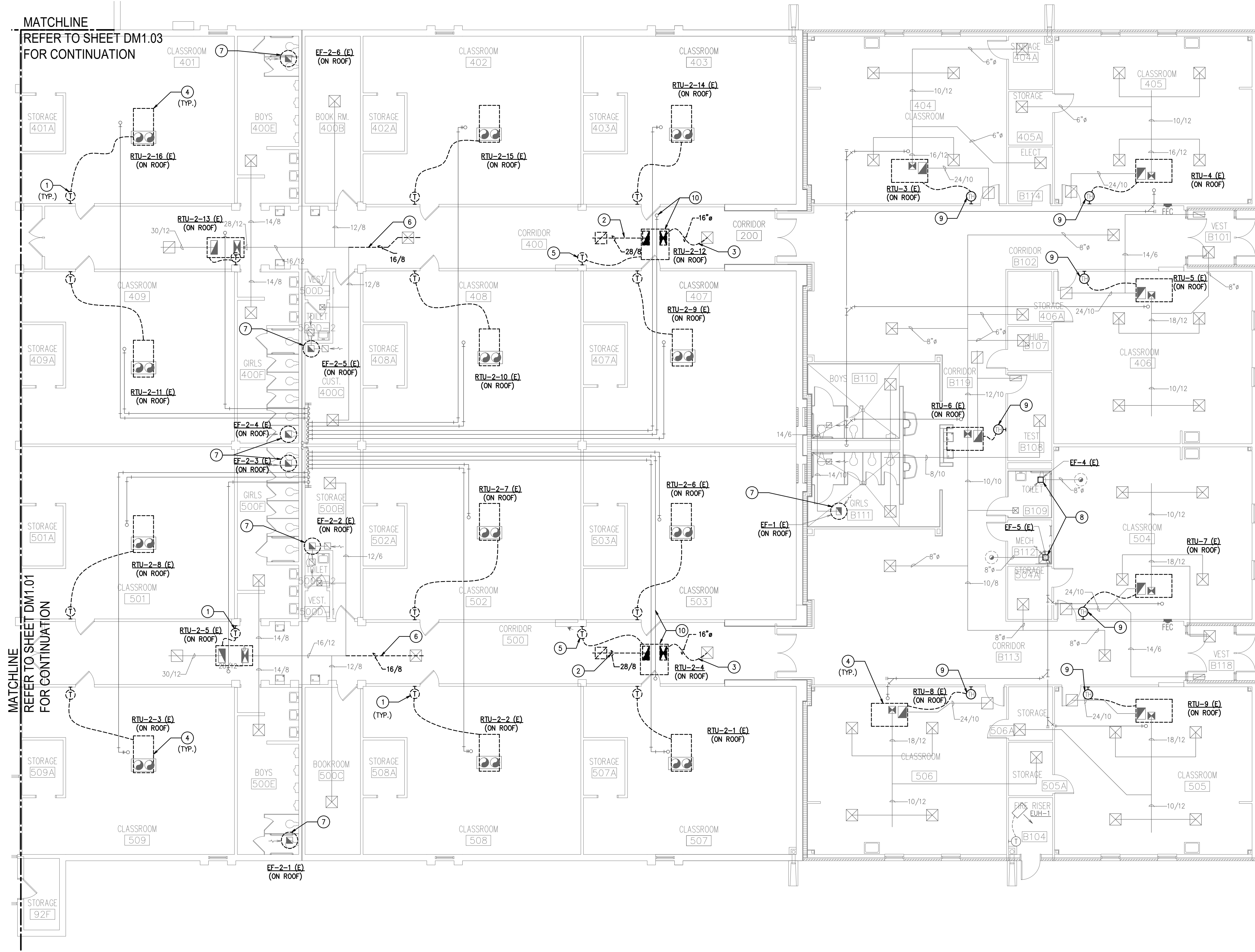
1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO COMMENCEMENT OF A BID TO DETERMINE THE AMOUNT OF WORK TO BE DONE. THE CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING WORK AND BECOME INFORMED AS TO THE LOCATION OF ALL EXISTING WORK. THE WORK REQUIRED BEFORE SUBMITTING A BID, SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.
2. EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT ARE LOCATED WITHIN THE LIMIT OF NEW CONSTRUCTION OR OTHER AREAS OF THE BUILDING. THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OPERATION AT ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
4. PRIOR TO THE REMOVAL OF ANY MPE ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS).
5. CONTRACTOR SHALL CONTACT CONTROLS SYSTEM INSTALLER BEFORE ANY DEMOLITION WORK IS STARTED. ADVISE THEM THAT TO TAG & IDENTIFY ITEMS TO REMAIN AND BE PROTECTED. ITEMS TO BE REMOVED, THE CONTROLS SYSTEM SHALL COORDINATE WITH THE OWNER FOR ELIMINATION OF THE EXISTING CONTROLS SYSTEM THAT SHALL BE CAREFULLY REMOVED AND GIVEN TO THE OWNER SUCH AS EXHAUST FAN, EXHAUST FAN SENSORS THAT WILL NOT BE RE-USED. ALL EXISTING TEMPERATURE ONLY SENSORS SERVING EXISTING RTUS SHALL BE CAREFULLY REMOVED, SHRINK WRAPPED, PALATIZED, AND PROVIDED TO OWNER FOR THEIR USE.
6. DO NOT ABANDON ANY ITEMS IN PLACE, REMOVE ALL COMPONENTS ASSOCIATED WITH EACH EQUIPMENT AND CUT TO BE REMOVED. REMOVE ALL EXISTING PARTS OF WALLS, CEILING OR FLOOR, AS APPLICABLE, TO MATCH EXISTING FINISHES, WHERE NEW FINISHES ARE CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.
7. ALL EXISTING FIRE ALARM, SECURITY AND OTHER CEILING MOUNTED DEVICES TO REMAIN IN OPERATION DURING CONSTRUCTION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT AS NEEDED.
8. ALL EXISTING LIGHTS ARE TO BE REUSED AND REMAIN IN PLACE, UNLESS NOTED OTHERWISE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING DEMOLITION.
9. CLEAN EXISTING RE-USED SUPPLY, RETURN AND EXHAUST GRILLES FREE OF ALL DUST AND DEBRIS.
10. WHERE NEW SENSORS MOUNTED LOWER THAN ORIGINAL OR IN DIFFERENT LOCATION, PROVIDE STAINLESS STEEL COVER PLATE OVER OLD LOCATION, AND PROVIDE NEW WIRING IN GYPSUM OR PLASTER WALLS TO NEW LOCATION OR PROVIDE PANDUIT FROM CEILING TO NEW LOCATION FOR SENSORS. INSTALLED OR CHASE OR CHASE WALLS. CONTROLS CONTRACTOR TO PROVIDE COVER PLATES AND PANDUIT.
11. REMOVE AND RE-INSTALL EXISTING LAY-IN AND GYPSUM CEILING AS REQUIRED TO ACCOMMODATE NEW DUCTWORK. PROVIDE NEW TILE GRID AND GIRD AS NEEDED. PATCH AND REPAIR AREAS OF GYPSUM CEILING TO MATCH EXISTING FINISHES AS REQUIRED. WHERE GYPSUM CEILING IS REMOVED, PAINT ENTIRE ROOM CEILING AFTER PATCHING.
12. WATER JET AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES PRIOR TO RE-CONNECTING NEW UNITS TO EXISTING CONDENSATE DRAIN PIPING SYSTEM.
13. THE MECHANICAL CONTRACTOR / DEMOLITION CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE SCOPE OF DEMOLITION FOR ELECTRICAL CONNECTIONS. THOSE UNITS BEING REMOVED SHALL BE SAFELY DISCONNECTED FROM EXISTING POWER.
14. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UNITS TO DISTRICT, ALLOWING THE DISTRICT TO REMOVE ANY EXISTING UNIT COMPONENTS FOR SPARE STOCK.
15. PROVIDE FLOOR PROTECTION IN ALL AREAS OF DEMOLITION AND NEW WORK THROUGHOUT THE ENTIRE WORK AREA. PROVIDE FLOOR EXTENSION TO MATCH EXISTING FLOOR FINISH. PROVIDE CORRIDOR AND BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

- (1) EXISTING TEMPERATURE SENSOR TO BE REMOVED AND REPLACED WITH NEW. EXISTING SENSORS SHALL BE CAREFULLY REMOVED, WRAPPED, PALLETIZED, AND RETURNED TO DISTRICT (OWNER).
- (2) EXISTING RETURN AIR GRILLE AND ASSOCIATED DUCTWORK TO BE REMOVED BACK TO UNIT CONNECTION ON ROOF. PROVIDE NEW CEILING TILE IN PLACE OF REMOVED EXISTING RETURN GRILLE TO MATCH CEILING TILE MODEL. "UGS-FSRD-FC".
- (3) EXISTING SUPPLY AIR DUCTWORK FROM DIFFUSER BACK TO UNIT CONNECTION ON ROOF TO BE REMOVED. EXISTING SUPPLY DIFFUSER TO BE REMOVED AND RE-USED.
- (4) EXISTING RTU ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING RTU AND RECONNECT WITH NEW UNIT.
- (5) EXISTING TEMPERATURE SENSOR TO BE REMOVED, PATCH, REPAIR, AND PAINT WALL TO MATCH EXISTING. EXISTING SENSORS SHALL BE CAREFULLY REMOVED, WRAPPED, PALLETIZED, AND RETURNED TO DISTRICT (OWNER).
- (6) EXISTING SUPPLY DUCTWORK FROM DIFFUSER BACK TO APPROXIMATE LOCATION SHOWN TO BE REMOVED. EXISTING DIFFUSER TO BE REMOVED AND REUSED.
- (7) EXISTING EXHAUST FAN ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
- (8) EXISTING ROOF-TOP UNIT VENT ON IT BE REMOVED AND ROOF CAPPED. EXISTING CONDENSATE DRAIN PIPING TO BE GAPPED AND ABANDONED IN PLACE.

Drawing: P:\22146 - MIDLOTHIAN ISD BAXTER ES HVAC\DRAWINGS\CAD\SHEETS\DM1.01.DWG; Plot By: BADER MAXX0; Plot Date: 4/28/2023 7:11 PM; Paper Size: CCE 30" 30X42 IN; Plot Scale: 1:1;

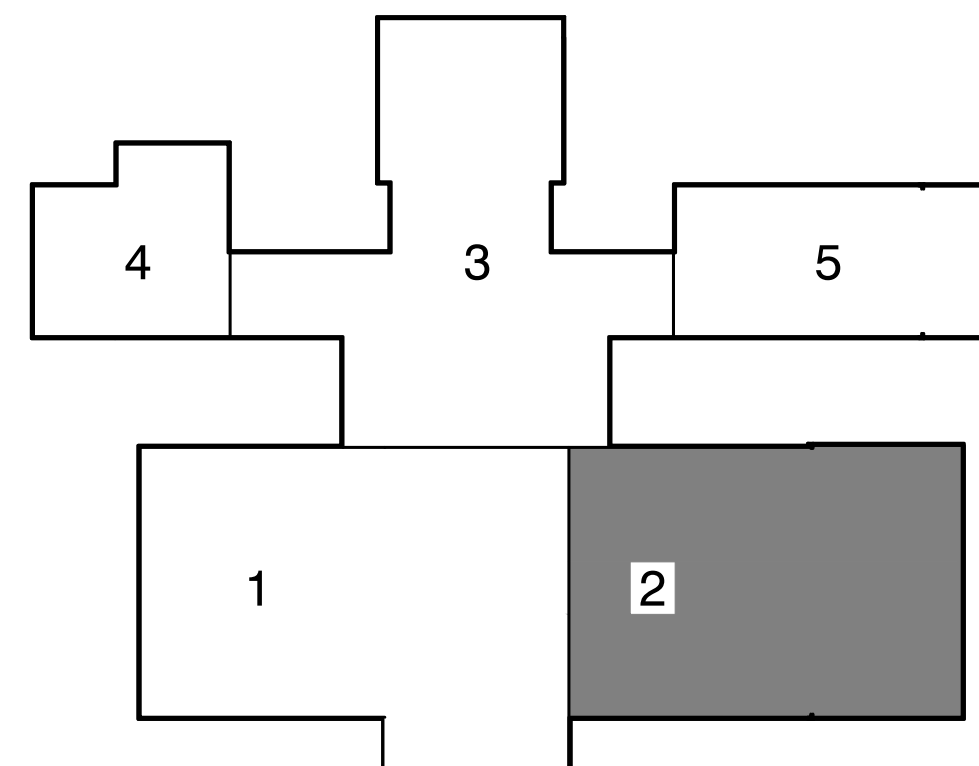


Drawing: 2/21/16 - MIDLOTHIAN I.S.D. BAXTER ES HVAC DRAWINGS/CAO/SHRETS/AM/CLDW/ R4/ By:BAKER MAND/ Plot Date: 4/20/2023 7:11 PM/ Plot Scale: 1"=1' Paper Size: 30" x 36" 42 IN



01

DEMOLITION FLOOR PLAN - AREA 2 - HVAC  
SCALE: 1/8" = 1'-0"



KEYPLAN

#### GENERAL DEMOLITION NOTES:

- THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK THAT WILL BE REQUIRED. CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING WORK AND BECOME INFORMED AS TO THE RELATION TO, AND EFFECT ON, THE WORK REQUIRED BEFORE SUBMITTING A BID. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.
- EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
- COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT WILL EFFECT OTHER SYSTEMS WITHIN THE LIMIT OF NEW CONSTRUCTION OR OTHER AREAS OF THE BUILDING. THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION; AND, THEREFORE, UTILITIES MUST REMAIN IN OPERATION AT ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
- PRIOR TO THE REMOVAL OF ANY MPE ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS).
- CONTRACTOR SHALL CONTACT CONTROLS SYSTEM INSTALLER BEFORE ANY DEMOLITION WORK IS STARTED TO ALLOW THEM TO TAG & IDENTIFY ITEMS TO REMAIN AND BE PROTECTED AND ITEMS TO BE REMOVED. THE CONTROLS SYSTEM INSTALLER SHALL COORDINATE WITH THE OWNER FOR ELEMENTS OF THE EXISTING CONTROLS SYSTEM THAT SHALL BE CAREFULLY REMOVED AND GIVEN TO THE OWNER. SUCH AS EXISTING TEMPERATURE SENSORS THAT WILL NOT BE RE-USED. ALL EXISTING TEMPERATURE ONLY SENSORS SERVING EXISTING RTUS SHALL BE CAREFULLY REMOVED, SHRINK WRAPPED, PALATIZED, AND PROVIDED TO OWNER FOR THEIR USE.
- DO NOT ABANDON ANY ITEMS IN PLACE. REMOVE ALL COMPONENTS ASSOCIATED WITH EACH ITEM CALLED OUT TO BE REMOVED. WHERE ITEMS ARE REMOVED PATCH/REPLACE ROOF, WALLS, CEILING OR FLOOR, AS APPLICABLE, TO MATCH EXISTING FINISHES, WHERE NEW FINISHES ARE CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.
- ALL EXISTING FIRE ALARM, SECURITY AND OTHER CEILING MOUNTED DEVICES TO REMAIN IN OPERATION DURING CONSTRUCTION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT AS NEEDED.
- ALL EXISTING LIGHTS ARE TO BE REUSED AND REMAIN IN PLACE, UNLESS NOTED OTHERWISE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING DEMOLITION.
- CLEAN EXISTING RE-USED SUPPLY, RETURN AND EXHAUST GRILLES FREE OF ALL DUST AND DEBRIS.
- WHERE NEW SENSORS MOUNTED LOWER THAN ORIGINAL OR IN DIFFERENT LOCATION, PROVIDE STAINLESS STEEL COVER PLATE OVER OLD LOCATION, AND PROVIDE NEW WIRING IN GYPSUM OR PLASTER WALLS TO NEW LOCATION OR PROVIDE PANDUIT FROM CEILING TO NEW LOCATION FOR SENSOR INSTALLED ON BRICK OR CMU WALLS. CONTROLS CONTRACTOR TO PROVIDE COVER PLATES AND PANDUIT.
- REMOVE AND RE-INSTALL EXISTING LAY-IN AND GYPSUM CEILING AS REQUIRED TO ACCOMMODATE NEW DUCTWORK. PROVIDE NEW TILE AND GRID AS NEEDED. PATCH AND REPAIR AREAS OF GYPSUM CEILING TO MATCH EXISTING WHERE REQUIRED. WHERE GYPSUM CEILING IS REMOVED, PAINT ENTIRE ROOM CEILING AFTER PATCHING.
- WATER JET AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES PRIOR TO RE-CONNECTING NEW UNITS TO EXISTING CONDENSATE DRAIN PIPING SYSTEM.
- THE MECHANICAL CONTRACTOR / DEMOLITION CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE SCOPE OF DEMOLITION FOR ELECTRICAL CONNECTIONS. THOSE UNITS BEING REMOVED SHALL BE SAFELY DISCONNECTED FROM EXISTING POWER.
- CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UNITS WITH DISTRICT, ALLOWING THE DISTRICT TO REMOVE ANY EXISTING UNIT COMPONENTS FOR SPARE STOCK.
- PROVIDE FLOOR PROTECTION IN ALL AREAS OF DEMOLITION AND NEW WORK THROUGH OUT THE BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND BE 1/4" BOARD OR EQUAL TYPE FLOOR PROTECTION.

#### NOTES BY SYMBOL 'O':

- EXISTING TEMPERATURE SENSOR TO BE REMOVED AND REPLACED WITH NEW. EXISTING SENSORS SHALL BE CAREFULLY REMOVED, WRAPPED, AND PALLETIZED, AND RETURNED TO DISTRICT (OWNER).
- EXISTING RETURN AIR GRILLE AND ASSOCIATED DUCTWORK TO BE REMOVED BACK TO UNIT CONNECTION ON ROOF. PROVIDE NEW CEILING TILE IN PLACE OF REMOVED EXISTING RETURN GRILLE TO MATCH CEILING TILE MODEL "USG-FSRD-FC".
- EXISTING SUPPLY AIR DUCTWORK FROM DIFFUSER BACK TO UNIT CONNECTION ON ROOF TO BE REMOVED. EXISTING SUPPLY DIFFUSER TO BE REMOVED AND RE-USED.
- EXISTING RTU ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING RTU AND RECONNECT WITH NEW UNIT.
- EXISTING TEMPERATURE SENSOR TO BE REMOVED. PATCH, REPAIR, AND PAINT WALL TO MATCH EXISTING EXISTING SENSORS SHALL BE CAREFULLY REMOVED, WRAPPED, PALLETIZED, AND RETURNED TO DISTRICT (OWNER).
- EXISTING SUPPLY DUCTWORK FROM DIFFUSER BACK TO APPROXIMATE LOCATION SHOWN TO BE REMOVED. EXISTING DIFFUSER TO BE REMOVED AND REUSED.
- EXISTING EXHAUST FAN ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
- EXISTING EXHAUST FAN ABOVE CEILING TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
- EXISTING COMBINATION TEMPERATURE/HUMIDITY SENSORS TO BE REMOVED AND RE-USED FOR NEW UNITS.
- EXISTING ROOF-TOP UNIT VENT OT BE REMOVED AND ROOF CAPPED. EXISTING CONDENSATE DRAIN PIPING TO BE CAPPED AND ABANDONED IN PLACE.



2023.04.28

#### ISSUES

01 ISSUE FOR CONSTRUCTION 2023.04.28

#### REVISIONS



**T.E. BAXTER ES**  
**HVAC REPLACEMENT**  
MIDLOTHIAN I.S.D.  
1050 Park Pl Blvd, Midlothian, TX 76065

DEMOLITION FLOOR  
PLAN - AREA 2 - HVAC

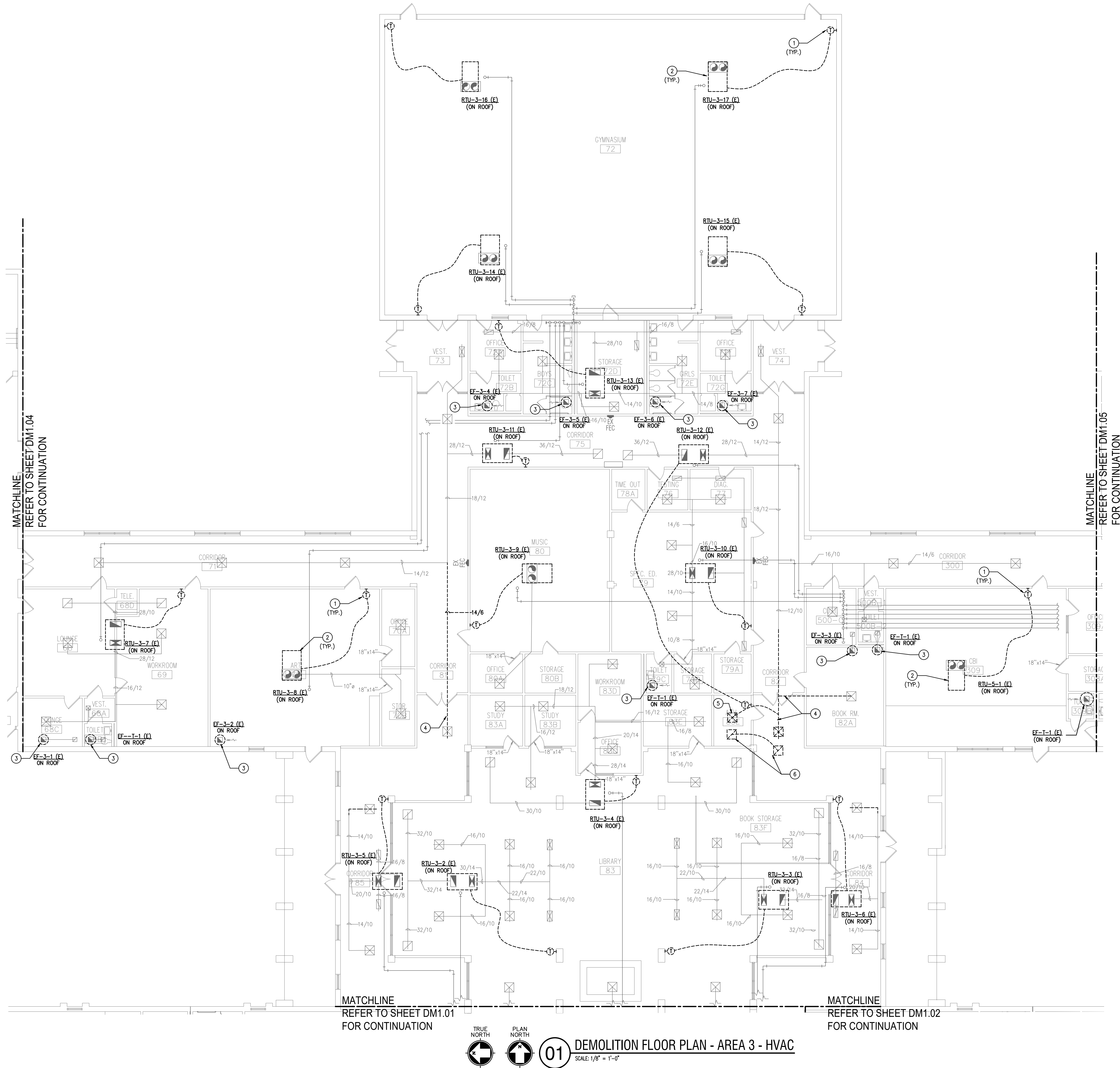
JOB NO: 22146-00  
DRAWN BY: ND  
CHECKED BY: HW/NH

SHEET NO.

DM1.02



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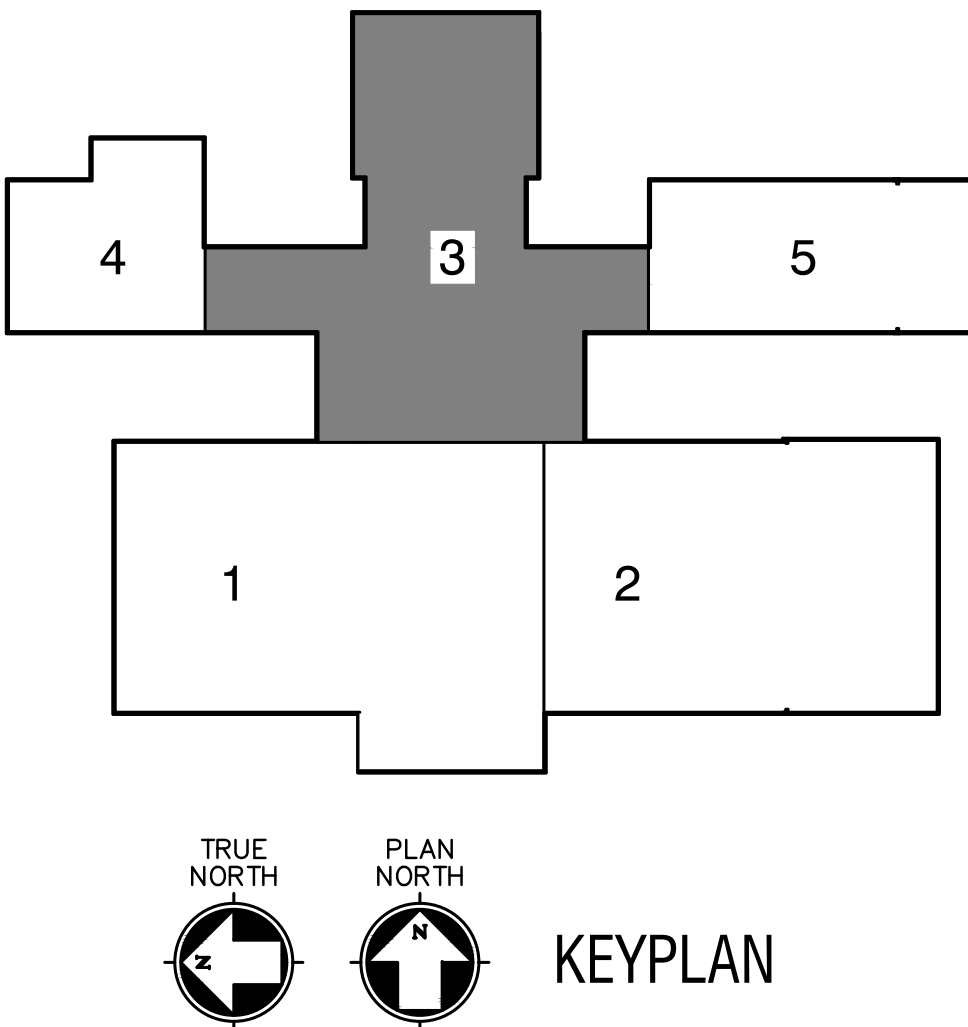


GENERAL DEMOLITION NOTES:

1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK THAT WILL BE REQUIRED. CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING WORK AND BECOME INFORMED AS TO THE RELATION TO, AND EFFECT ON, THE WORK REQUIRED BEFORE SUBMITTING A BID. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.
2. EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT WILL EFFECT OTHER SYSTEMS WITHIN THE LIMIT OF NEW CONSTRUCTION OR OTHER AREAS OF THE BUILDING. THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION, AND, THEREFORE, UTILITIES MUST REMAIN IN OPERATION AT ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
4. PRIOR TO THE REMOVAL OF ANY MPE ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS).
5. CONTRACTOR SHALL CONTACT CONTROLS SYSTEM INSTALLER BEFORE ANY DEMOLITION WORK IS STARTED TO ALLOW THEM TO TAG & IDENTIFY ITEMS TO REMAIN AND BE PROTECTED AND ITEMS TO BE REMOVED. THE CONTROLS SYSTEM INSTALLER SHALL COORDINATE WITH THE OWNER FOR ELEMENTS OF THE EXISTING CONTROLS SYSTEM THAT SHALL BE CAREFULLY REMOVED AND GIVEN TO THE OWNER SUCH AS EXISTING TEMPERATURE SENSORS THAT WILL NOT BE RE-USED. ALL EXISTING TEMPERATURE ONLY SENSORS SERVING EXISTING RTUS SHALL BE CAREFULLY REMOVED, SHRINK WRAPPED, PALATIZED, AND PROVIDED TO OWNER FOR THEIR USE.
6. DO NOT ABANDON ANY ITEMS IN PLACE. REMOVE ALL COMPONENTS ASSOCIATED WITH EACH ITEM CALLED OUT TO BE REMOVED. WHERE ITEMS ARE REMOVED PATCH/REPLACE ROOF, WALLS, CEILING OR FLOOR, AS APPLICABLE, TO MATCH EXISTING FINISHES, WHERE NEW FINISHES ARE CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.
7. ALL EXISTING FIRE ALARM, SECURITY AND OTHER CEILING MOUNTED DEVICES TO REMAIN IN OPERATION DURING CONSTRUCTION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT AS NEEDED.
8. ALL EXISTING LIGHTS ARE TO BE RE-USED AND REMAIN IN PLACE, UNLESS NOTED OTHERWISE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING DEMOLITION.
9. CLEAN EXISTING RE-USED SUPPLY, RETURN AND EXHAUST GRILLES FREE OF ALL DUST AND DEBRIS.
10. WHERE NEW SENSORS MOUNTED LOWER THAN ORIGINAL OR IN DIFFERENT LOCATION, PROVIDE STAINLESS STEEL COVER PLATE OVER OLD LOCATION, AND PROVIDE NEW WIRING IN GYPSUM OR PLASTER WALLS TO NEW LOCATION OR PROVIDE PANDUIT FROM CEILING TO NEW LOCATION FOR SENSOR INSTALLED ON BRICK OR CMU WALLS. CONTROLS CONTRACTOR TO PROVIDE COVER PLATES AND PANDUIT.
11. REMOVE AND RE-INSTALL EXISTING LAY-IN AND GYPSUM CEILING AS REQUIRED TO ACCOMMODATE NEW DUCTWORK. PROVIDE NEW TILE AND GRID AS NEEDED. PATCH AND REPAIR AREAS OF GYPSUM CEILING TO MATCH EXISTING WHERE REQUIRED. WHERE GYPSUM CEILING IS REMOVED, PAINT ENTIRE ROOM CEILING AFTER PATCHING.
12. WATER JET AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES PRIOR TO RE-CONNECTING NEW UNITS TO EXISTING CONDENSATE DRAIN PIPING SYSTEM.
13. THE MECHANICAL CONTRACTOR / DEMOLITION CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE SCOPE OF DEMOLITION FOR ELECTRICAL CONNECTIONS. THOSE UNITS BEING REMOVED SHALL BE SAFELY DISCONNECTED FROM EXISTING POWER.
14. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UNITS WITH DISTRICT, ALLOWING THE DISTRICT TO REMOVE ANY EXISTING UNIT COMPONENTS FOR SPARE STOCK.
15. PROVIDE FLOOR PROTECTION IN ALL AREAS OF DEMOLITION AND NEW WORK THROUGH OUT THE BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

NOTES BY SYMBOL 'O':

- 1 EXISTING TEMPERATURE SENSOR TO BE REMOVED AND REPLACED WITH NEW. EXISTING SENSORS SHALL BE CAREFULLY REMOVED, WRAPPED, PALLETIZED, AND RETURNED TO DISTRICT (OWNER).
- 2 EXISTING RTU ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING RTU AND RECONNECT WITH NEW UNIT.
- 3 EXISTING EXHAUST FAN ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
- 4 EXISTING SUPPLY AIR DUCTWORK TO BE REMOVED FROM DIFFUSER BACK TO APPROXIMATE LOCATION SHOWN AND CAPPED. EXISTING DIFFUSER TO REMAIN AND BE RE-USED. PROVIDE NEW CEILING TILE IN PLACE OF REMOVED EXISTING DIFFUSER TO MATCH CEILING TILE MODEL "J56-3RD-FC".
- 5 EXISTING SUPPLY AIR DIFFUSER AND ASSOCIATED DUCTWORK TO BE REMOVED BACK TO APPROXIMATE LOCATION SHOWN AND CAPPED. EXISTING DIFFUSER TO REMAIN AND BE RE-USED.
- 6 EXISTING TRANSFER AIR GRILLE AND ASSOCIATED DUCTWORK TO BE REMOVED.



2023.04.28

ISSUES

01 ISSUE FOR CONSTRUCTION 2023.04.28

REVISIONS

NO.	DESCRIPTION	DATE



T.E. BAXTER ES  
HVAC REPLACEMENT  
MIDLOTHIAN I.S.D.  
1050 Park Pl Blvd, Midlothian, TX 76065

DEMOLITION FLOOR  
PLAN - AREA 3 - HVAC

JOB NO.: 22146-00  
DRAWN BY: ND  
CHECKED BY: HW/NH

SHEET NO.

DM1.03



ISSUES		
01	ISSUE FOR CONSTRUCTION	2023.04.28

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**T.E. BAXTER ES**  
**HVAC REPLACEMENT**  
MIDLOTHIAN I.S.D.  
1050 Park Pl Blvd, Midlothian, TX 76065

DEMOLITION FLOOR  
PLAN - AREA 4 - HVAC

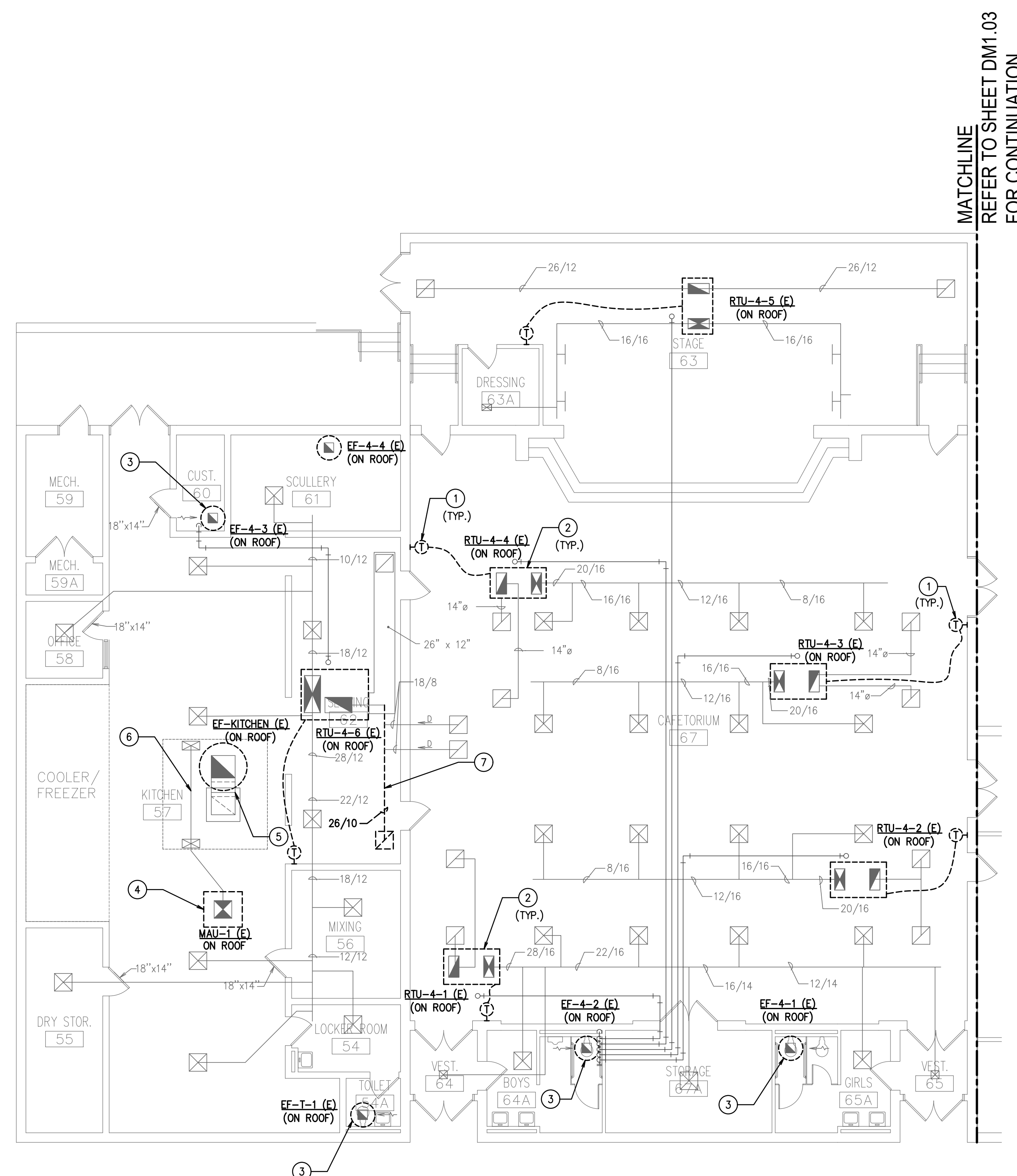
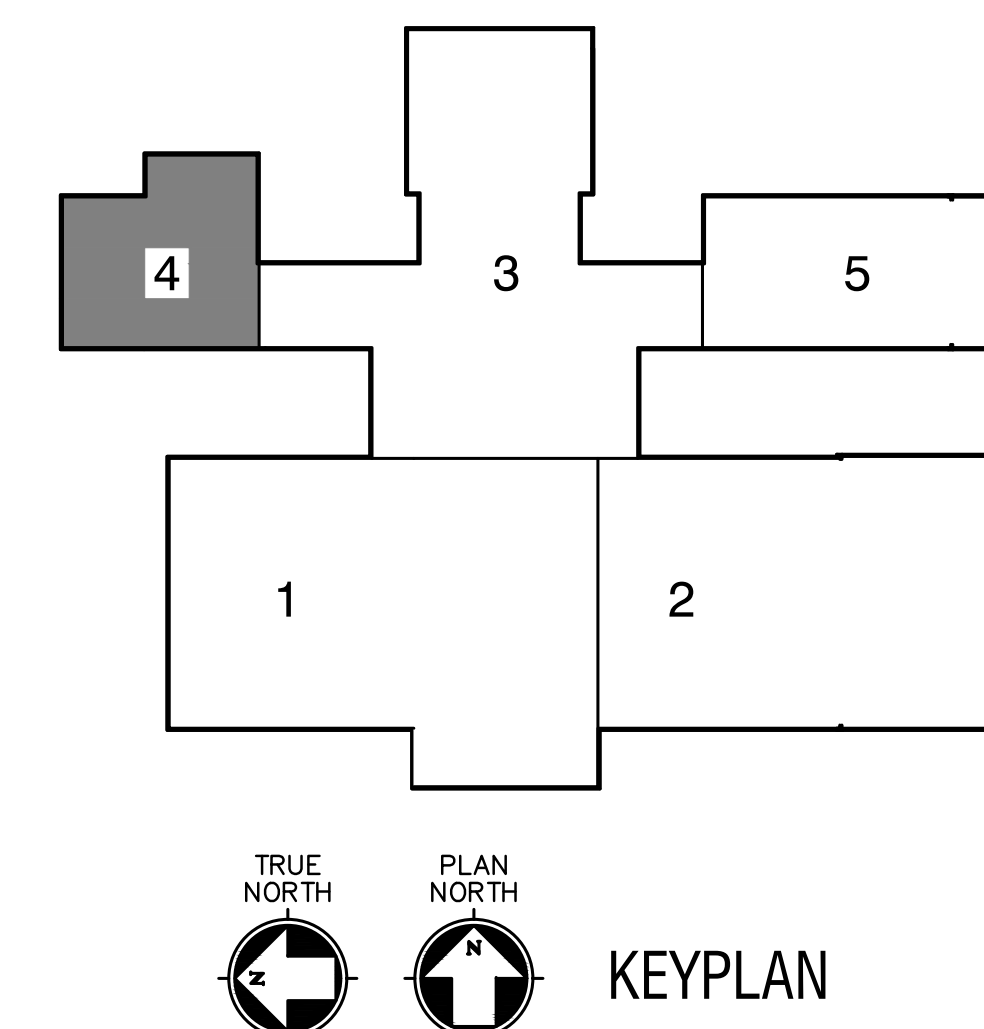
JOB NO.: 22146-00  
DRAWN BY: ND  
CHECKED BY: HV/NH

SHEET NO.

## DM1.04

1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING THE SITE PERMIT TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK TO BE DONE. THE CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING WORK AND BECOME FAMILIAR TO THE BUILDING. THE CONTRACTOR SHALL BE REQUIRED BEFORE SUBMITTING A BID, SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.
2. EXISTING MEP ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL, AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT ARE LOCATED WITHIN THE LIMITS OF NEW CONSTRUCTION OR OTHER AREAS OF THE BUILDING. THE BUILDING WILL BE OCCUPIED DURING THE EXISTING AND NEW CONSTRUCTION. RETURNS AND REMAIN IN OPERATION AT ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
4. PRIOR TO THE REMOVAL OF ANY MEP ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT AREA LIMITS).
5. CONTRACTOR SHALL CONTACT CONTROL'S SYSTEM INSTALLER BEFORE ANY DEMOLITION WORK IS STARTED TO ALLOW THEM TO TAG & IDENTIFY ITEMS TO REMAIN. ITEMS TO BE PROTECTED AND ITEMS TO BE REMOVED, THE CONTROLS SYSTEM INSTALLER SHALL COORDINATE WITH THE OWNER FOR ELEMENTS OF THE EXISTING CONTROLS SYSTEM THAT SHALL BE CAREFULLY REMOVED AND GIVEN TO THE OWNER. CONTRACTOR SHALL REMOVE ALL SENSORS THAT WILL NOT BE RE-USED. ALL EXISTING TEMPERATURE ONLY SENSORS SERVING EXISTING RTUS SHALL BE CAREFULLY REMOVED, SHRINK WRAPPED, PALATIZED, AND PROVIDED TO OWNER FOR THEIR USE.
6. DO NOT ABANDON ANY ITEMS IN PLACE, REMOVE ALL COMPONENTS ASSOCIATED WITH EACH ITEM AND PUT IT TO REMOVED. REMOVE ALL ITEMS FROM CEILING, WALLS, FLOOR, CEILING OR FLOOR, AS APPLICABLE, TO MATCH EXISTING FINISHES, WHERE NEW FINISHES ARE CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.
7. ALL EXISTING FIRE ALARM, SECURITY AND OTHER CEILING MOUNTED DEVICES TO REMAIN IN OPERATION DURING DEMOLITION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT AS NEEDED.
8. ALL EXISTING LIGHTS ARE TO BE REUSED AND REMAIN IN PLACE, UNLESS NOTED OTHERWISE, CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING DEMOLITION.
9. CLEAN EXISTING RE-USED SUPPLY, RETURN AND EXHAUST GRILLES FREE OF ALL DUST AND DEBRIS.
10. WHERE NEW SENSORS MOUNTED LOWER THAN ORIGINAL OR IN DIFFERENT LOCATION, PROVIDE STAINLESS STEEL COVER PLATE OVER OLD LOCATION, AND PROVIDE NEW WIRING IN GYPSUM OR PLASTER WALLS TO NEW LOCATION OR PROVIDE PANDUIT FROM CEILING TO NEW LOCATION FOR SENSOR WALL MOUNTED BRICKS OR CMU WALLS. CONTRACTOR SHALL PROVIDE COVER PLATES AND PANDUIT.
11. REMOVE AND RE-INSTALL EXISTING LAY-IN AND GYPSUM CEILING AS REQUIRED TO ACCOMMODATE NEW OUTCROWT. PROVIDE NEW TILE AND GRID AS NEEDED. PATCH AND REPAIR AREAS OF CEILING BELONGING TO OTHERS OR PROVIDE AS REQUIRED. WHERE GYPSUM CEILING IS REMOVED, PAINT ENTIRE ROOM CEILING AFTER PATCHING.
12. WATER EAT AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES IN PLACE TO RE-CONNECTING NEW UNITS TO EXISTING CONDENSATE DRAIN PIPING SYSTEM.
13. THE MECHANICAL CONTRACTOR / DEMOLITION CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE SCOPE OF DEMOLITION FOR ELECTRICAL CONNECTIONS. THOSE UNITS BEING REMOVED SHALL BE SAFELY DISCONNECTED FROM EXISTING POWER.
14. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UNITS WITH DISTRICT, ALLOWING THE DISTRICT TO REMOVE ANY EXISTING UNIT COMPONENTS FOR SPARE STOCK.
15. PROVIDE FLOOR PROTECTION IN ALL AREAS OF DEMOLITION AND NEW WORK THROUGHOUT THE BUILDING. FLOOR WORK AREA TO EXTEND TO THE EXTERIOR. PROTECT SHALL BE FULL WIDTH OF CORRIDOR AND BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

- 1 EXISTING TEMPERATURE SENSOR TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING RTU AND RECONNECT TO NEW UNIT. EXISTING TEMPERATURE SENSOR TO BE REMOVED AND REPLACED WITH NEW. EXISTING SENSORS SHALL BE CAREFULLY REMOVED, WRAPPED, AND PALLETIZED, AND RETURNED TO DISTRICT (OWNER).
- 2 EXISTING RTU ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING RTU AND RECONNECT WITH NEW UNIT.
- 3 EXISTING EXHAUST FAN ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
- 4 EXISTING MAKE-UP AIR FAN ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
- 5 REMOVE INSULATION ON EXISTING EXHAUST DUCTWORK FROM HOOD CONNECTION BACK TO FAN CONNECTION ON ROOF.
- 6 REMOVE INSULATION ON EXISTING MAKE-UP AIR DUCTWORK FROM HOOD CONNECTION BACK TO FAN CONNECTION ON ROOF.
- 7 EXISTING RETURN AIR DUCTWORK TO BE REMOVED FROM GRILLE BACK TO APPROPRIATE LOCATION SHOWING. EXISTING RETURN GRILLE TO BE REMOVED AND RELOCATED.



**MATCHLINE**  
**REFER TO SHEET DM1.03**  
**FOR CONTINUATION**



01

### DEMOLITION FLOOR PLAN - AREA 4 - HVAC

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



ISSUES		
01	ISSUE FOR CONSTRUCTION	2023.04.28

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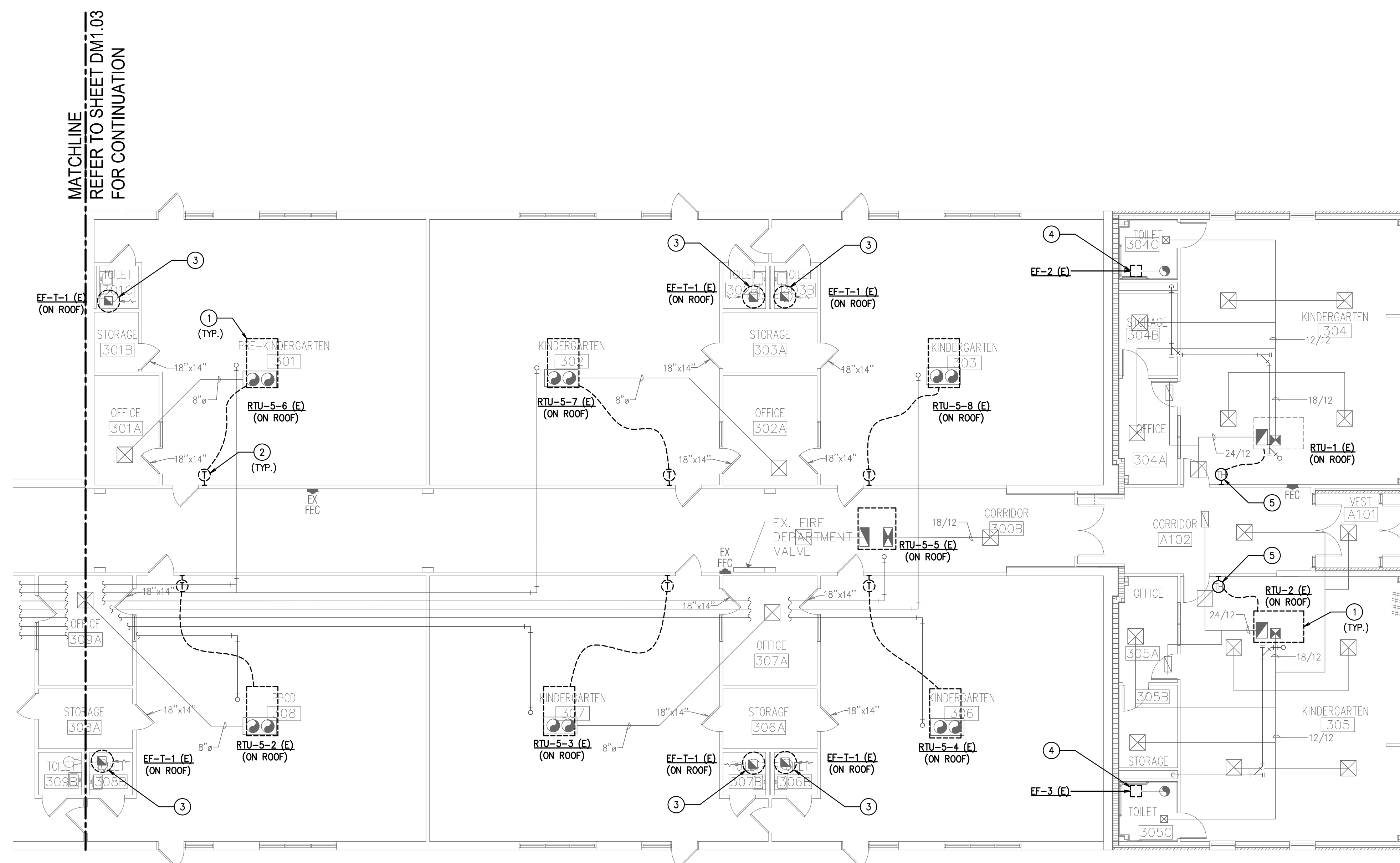
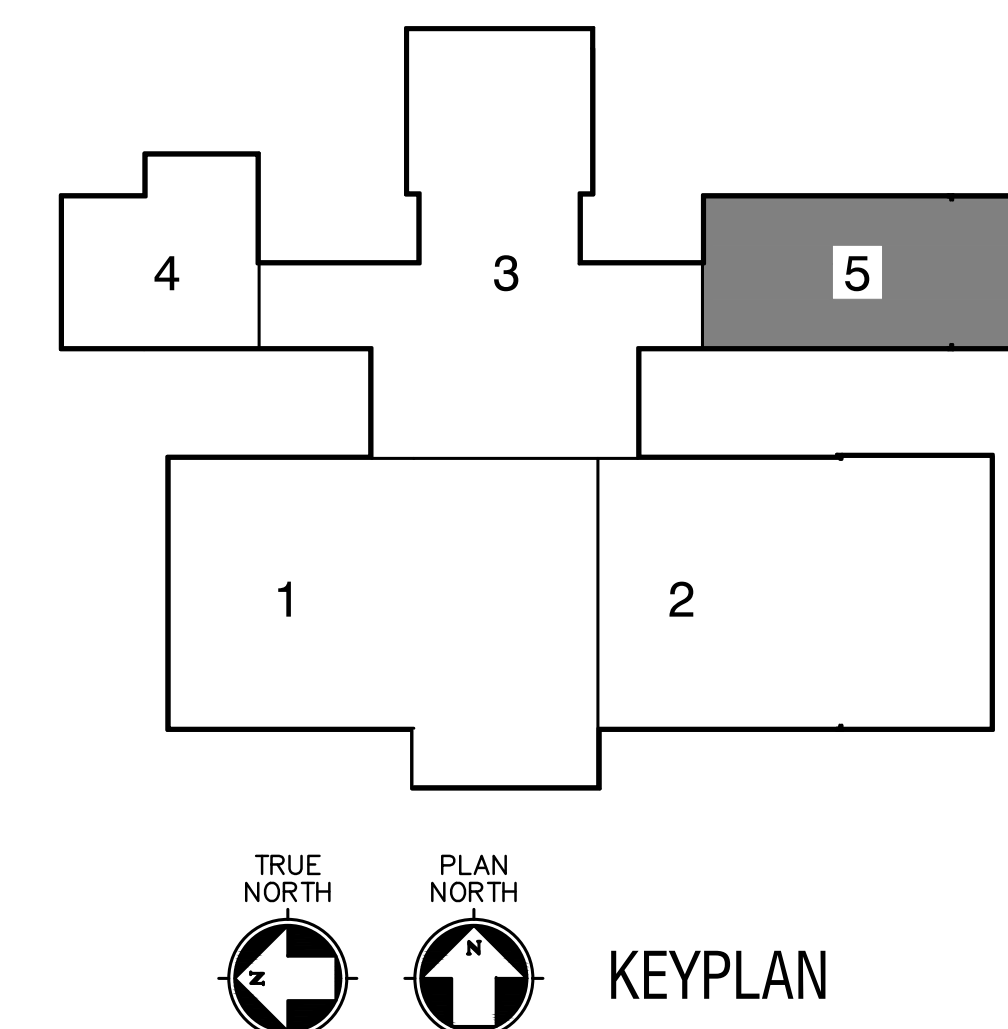
DEMOLITION FLOOR  
PLAN - AREA 5 - HVAC

SHEET NO.

DM1.05

1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE AMT OF WORK TO BE DEMOLISHED. CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING AND GENERALLY VERIFY THE LOCATION OF ALL EXISTING WORK AND BECOME FAMILIAR TO THE WORK REQUIRED BEFORE SUBMITTING A BID. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE OF THE PROPOSED WORK.
2. EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.
3. COORDINATE DEMOLITION WORK WITH THE BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EXISTING WORK OR SYSTEMS THAT ARE TO BE DEMOLISHED. WITHIN THE MIT OF NEW CONSTRUCTION OR OTHER AREAS OF THE BUILDING, THE OPERATION WILL BE OCCUPYING DURING THE DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING ALL TIMES. ANY REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.
4. PRIOR TO THE REMOVAL OF ANY MPE ITEMS OR EQUIPMENT, CONTRACTOR MUST VERIFY THE ORIGIN AND TERMINATION OF THOSE SYSTEMS AND CONFIRM THAT THE ITEMS BEING REMOVED DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE CONTRACT LIMITS).
5. CONTRACTOR SHALL CONTROL SYSTEMS INSTALLER BEFORE ANY DEMOLITION WORK IS ALLOWED TO ALLOW THEM TO TAG & IDENTIFY ITEMS TO REMAIN AND BE PROTECTED AND ITEMS TO BE REMOVED. THE CONTROLS SYSTEM INSTALLER SHALL COORDINATE WITH THE OWNER FOR ELEMENTS OF THE EXISTING CONTROLS SYSTEM THAT SHALL BE CAREFULLY REMOVED AND GIVEN TO THE OWNER. THE OWNER SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE ITEMS. ALL EXISTING TEMPERATURE ONLY SENSORS SERVING EXISTING RTUS SHALL BE CAREFULLY REMOVED, SHRINK WRAPPED, PALATIZED, AND PROVIDED TO OWNER FOR THEIR USE.
6. DO NOT ABANDON ANY ITEMS IN PLACE. REMOVE ALL COMPONENTS ASSOCIATED WITH EACH ITEM AND PUT IT OUT OF THE WAY. REMOVE ALL ITEMS FROM THE CEILING ROOF, WALLS, CEILING OR FLOOR, AS APPLICABLE, TO MATCH EXISTING FINISHES, WHERE NEW FINISHES ARE CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.
7. ALL EXISTING FIRE ALARM, SECURITY AND OTHER CEILING MOUNTED DEVICES TO REMAIN IN OPERATION DURING CONSTRUCTION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT AS NEEDED.
8. ALL EXISTING LIGHTS ARE TO BE REUSED AND REMAIN IN PLACE, UNLESS NOTED OTHERWISE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING DEMOLITION.
9. CLEAN EXISTING RE-USED SUPPLY, RETURN AND EXHAUST DRILLIES FREE OF ALL DUST AND DEBRIS.
10. WHERE NEW SENSORS MOUNTED LOWER THAN ORIGINAL OR, IN DIFFERENT LOCATION, PROVIDE STAINLESS STEEL COVER PLATE OVER OLD LOCATION, AND PROVIDE NEW WIRING IN GYPSUM OR PLASTER WALLS TO NEW LOCATION OR PROVIDE PANDUIT FROM CEILING TO NEW LOCATION FOR SENSOR INSTALLED IN CEILING OR CMU WALLS. CONTRACTOR TO PROVIDE COVER PLATE AND PANDUIT.
11. REMOVE AND RE-INSTALL EXISTING LAY-IN AND GYPSUM CEILING AS REQUIRED TO ACCOMMODATE NEW DUCTWORK. PROVIDE NEW TILE AND GRID AS NEEDED. PATCH AND REPAIR AREAS OF CEILING EXISTING TO BE RE-INSTALLED AS REQUIRED. WHERE GYPSUM CEILING IS REMOVED, PAINT ENTIRE ROOM CEILING AFTER PATCHING.
12. WATER TEST AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES PRIOR TO RE-CONNECTING NEW UNITS TO EXISTING CONDENSATE DRAIN PIPING SYSTEM.
13. THE MECHANICAL CONTRACTOR / DEMOLITION CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE SCOPE OF DEMOLITION FOR ELECTRICAL CONNECTIONS. THOSE UNITS BEING REMOVED SHALL BE SAFELY DISCONNECTED FROM EXISTING POWER.
14. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UNITS WITH DISTRICT, ALLOWING THE DISTRICT TO REMOVE ANY EXISTING UNIT COMPONENTS FOR SPARE STOCK.
15. PROVIDE FLOOR PROTECTION IN ALL AREAS OF DEMOLITION AND NEW WORK THROUGHOUT THE BUILDING. EXISTING WORK AREAS ARE TO BE PROTECTED AND BE FULL WIDTH OF CORRIDOR AND BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

- ① EXISTING RTU ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING RTU AND RECONNECT WITH NEW UNIT.
- ② EXISTING TEMPERATURE SENSOR TO BE REMOVED AND REPLACED WITH NEW. EXISTING SENSORS SHALL BE CAREFULLY REMOVED, WRAPPED, PALLETIZED, AND RETURNED TO DISTRICT (OWNER).
- ③ EXISTING EXHAUST FAN ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
- ④ EXISTING CEILING MOUNTED EXHAUST FAN TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
- ⑤ EXISTING COMBINATION TEMPERATURE/HUMIDITY SENSORS TO BE REMOVED AND RE-USED FOR NEW UNITS.



01

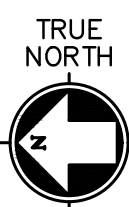
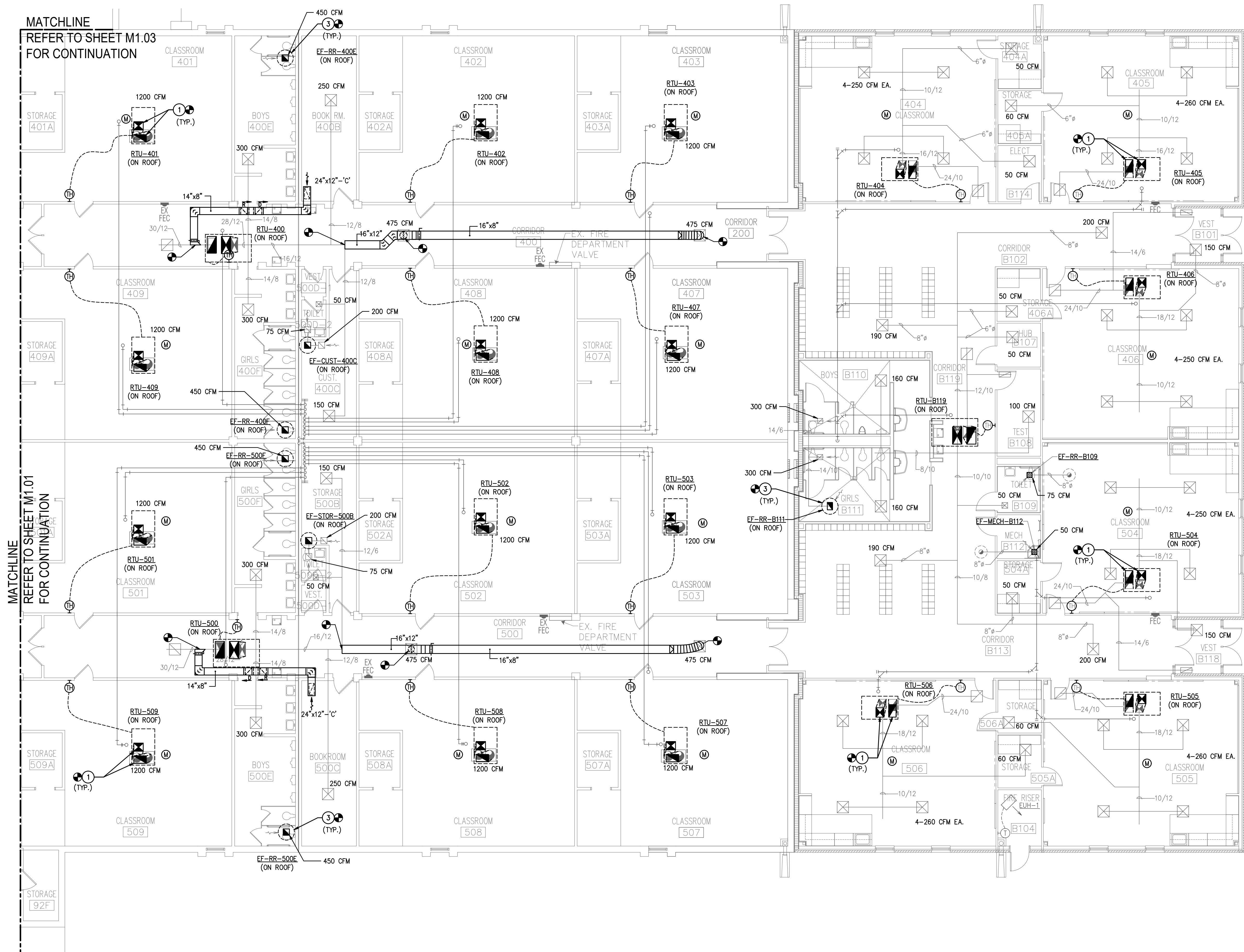
SCALE:  $1/8" = 1'-0"$







Drawing: M1.02.146 - MIDLOTHIAN ISD BAXTER ES HVAC DRAWINGS/LOAD SHEETS/MECHANICAL Plan Date: 4/20/2023 7:11 PM; Plot Scale: 1/8" = 1'-0"; Paper Size: 30" x 36" N



01

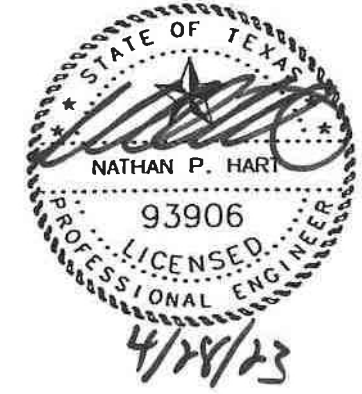
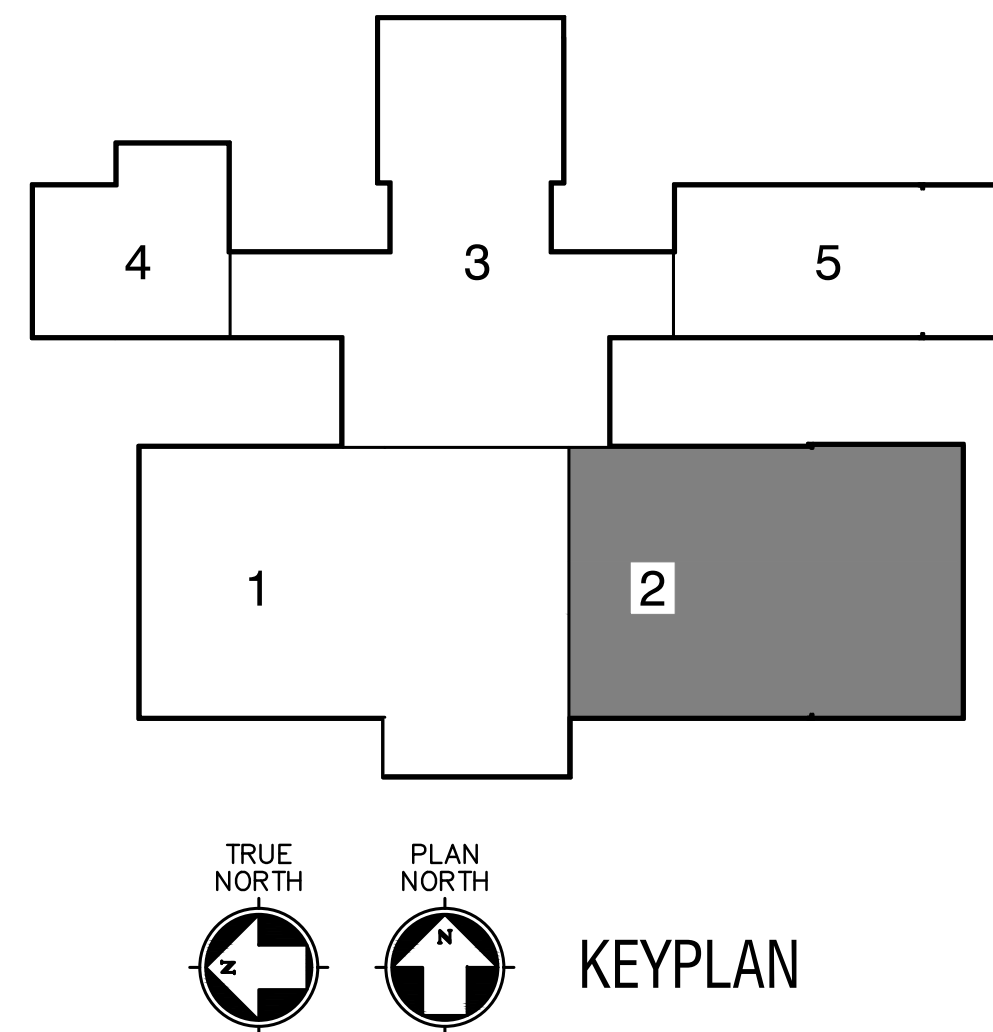
FLOOR PLAN - AREA 2 - HVAC  
SCALE: 1/8" = 1'-0"

#### GENERAL MECHANICAL NOTES:

1. RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 1/2" THICK ACOUSTICAL AND THERMAL LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0" TO MEET THE 2018 IECC REQUIREMENTS. RECTANGULAR RETURN DUCT SHALL BE LINED WITH 1" LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0". ALL TRANSFER AIR DUCTS TO BE INTERNALLY LINED WITH 1" LINER. DUCTWORK SIZES SHOWN ARE NET INTERNAL AIR STREAM DIMENSIONS. SHEET METAL SIZES ARE TO BE INCREASED IN SIZE TO MAINTAIN THESE INTERNAL CLEAR DIMENSIONS. ROUND DUCTWORK IS TO BE EXTERNALLY WRAPPED. FLEXIBLE ROUND DUCT SHALL HAVE A MINIMUM R-VALUE OF 6.0.
2. BRANCH RUN-OUTS TO CEILING MOUNTED AIR DEVICES SHALL BE SAME SIZE AS NECK, UNLESS NOTED OTHERWISE. PROVIDE A TWIST-IN FLARED TAP WITH MANUAL VOLUME DAMPER AT MAIN DUCT TAP, AND EXTEND AS SHOWN. EXTEND FLEXIBLE DUCTWORK A MAXIMUM OF 5'-0" FROM DIFFUSERS. INSTALL STRAIGHT AS POSSIBLE WITH LONG RADIUS BENDS WITH CLAMPS TO BE USED AT BOTH ENDS.
3. ALL DUCTWORK AND PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS AS HIGH AS POSSIBLE & CONCEALED IN WALLS, CHASES, OR FURROUTS IN GENERAL LOCATIONS SHOWN, UNLESS NOTED OTHERWISE.
4. LOCATE CEILING MOUNTED AIR DEVICES APPROXIMATELY WHERE SHOWN. VERIFY EXISTING CEILING TYPES TO CONFIRM FRAME MOUNTING TYPES REQUIRED. ALL CEILING DIFFUSERS TO BE FOUR-WAY TYPE UNLESS NOTED OTHERWISE BY AIR FLOW ARROWS ON FLOOR PLAN.
5. EXISTING AND NEW DIFFUSERS FOR ALL DUCTWORK CONNECTED TO UNITS REPLACED OR ADDED TO BE BALANCED TO NEW AIRFLOW VALUES SHOWN. TAB FIRM CONTRACTED DIRECTLY WITH OWNER.
6. WHERE EXISTING DUCTWORK IS REMOVED AND NOT REUSED, INSTALL INSULATED CAPS AND SEAL AIR TIGHT.
7. REMOVE EXISTING CEILING GRID AND TILE AS NEEDED TO REMOVE EXISTING AND INSTALL NEW DUCTWORK, PIPING, AND UNITS. REUSE EXISTING CEILING TILE AND GRID WHERE POSSIBLE. STORE AND STACK EXISTING TILE FOR REUSE AND PROTECT. WHERE NEW CEILING TILE IS REQUIRED, IT SHALL BE ALL NEW THROUGH THE ROOM. DO NOT MIX NEW AND EXISTING CEILING TILE IN THE SAME SPACE. ALL NEW CEILING HEIGHTS TO MATCH EXISTING CEILING HEIGHTS. ANY CEILINGS TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR WITH PRODUCTS AND MATERIALS THAT MATCH EXISTING.
8. EXISTING LIGHTS TO BE REUSED AND REMAIN IN PLACE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING REMOVAL.
9. WHERE ITEMS ARE REMOVED PATCH WALLS, CEILING, OR FLOOR AS APPLICABLE TO MATCH EXISTING FINISHES.
10. EXISTING SECURITY SYSTEM AND DEVICES TO REMAIN IN PLACE AND ACTIVE DURING CONSTRUCTION. ANY DEVICES IN CEILINGS TO BE REMOVED AND REPLACED TO BE TEMPORARILY SUPPORTED. ALL SECURITY SCOPE OF WORK TO BE CONTRACTED WITH SAS.
11. CLEAN ALL EXISTING REUSED SUPPLY, RETURN, AND EXHAUST AIR GRILLES FREE OF ALL DUST AND DEBRIS. PAINT ALL EXISTING SUPPLY AND RETURN AIR GRILLES WHERE SIGNS OF RUST ARE NOTED ON EXISTING GRILLES TO MATCH EXISTING COLOR OF GRILLE.
12. NEW TEMPERATURE SENSOR TO BE INSTALLED WHERE OLD SENSOR WAS REMOVED, WHEN IN COMPLIANCE WITH ADA HEIGHT REQUIREMENTS. WHEN NOT IN COMPLIANCE PROVIDE NEW SENSOR AT ADA HEIGHT AND PROVIDE STAINLESS STEEL COVER PLATE OVER EXISTING WALL OPENING. RE-USE EXISTING WIRING PATHWAY TO ACCESSIBLE CEILING, UP TO ROOF. PATCH, REPAIR AND PAINT WALL AS NEEDED.
13. PROVIDE FLOOR PROTECTION IN ALL AREAS OF THE DEMOLITION AND NEW WORK THROUGHOUT BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND STAIRWELL TO BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

#### NOTES BY SYMBOL 'O':

- 1 EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW UNIT CONNECTIONS ON ROOF.
- 2 CONNECT NEW 16/12 DUCTWORK TO EXISTING 16/12 DUCTWORK AFTER DUCT TAKE OFF SERVING CUSTODIAN ROOM.
- 3 EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW FAN CONNECTIONS ON ROOF.



2023.04.28

#### ISSUES

01 ISSUE FOR CONSTRUCTION 2023.04.28

#### REVISIONS

NO.	DESCRIPTION	DATE



**T.E. BAXTER ES**  
**HVAC REPLACEMENT**  
MIDLOTHIAN I.S.D.  
1050 Park Pl Blvd, Midlothian, TX 76065

FLOOR PLAN - AREA 2  
-HVAC

JOB NO.: 22146-00  
DRAWN BY: ND  
CHECKED BY: HJ/NH

SHEET NO.

**M1.02**



ISSUES		
01	ISSUE FOR CONSTRUCTION	2023.04.28

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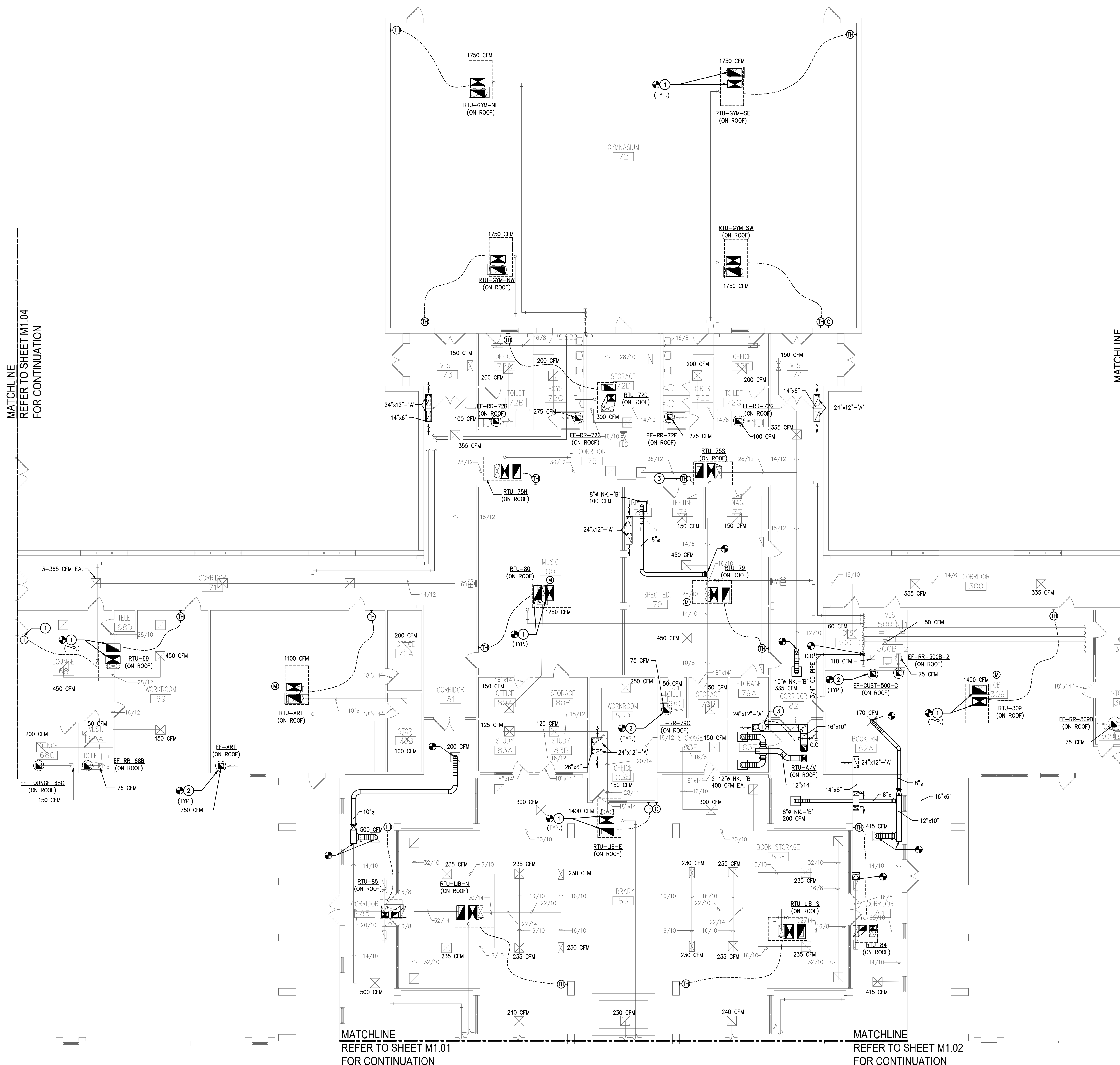
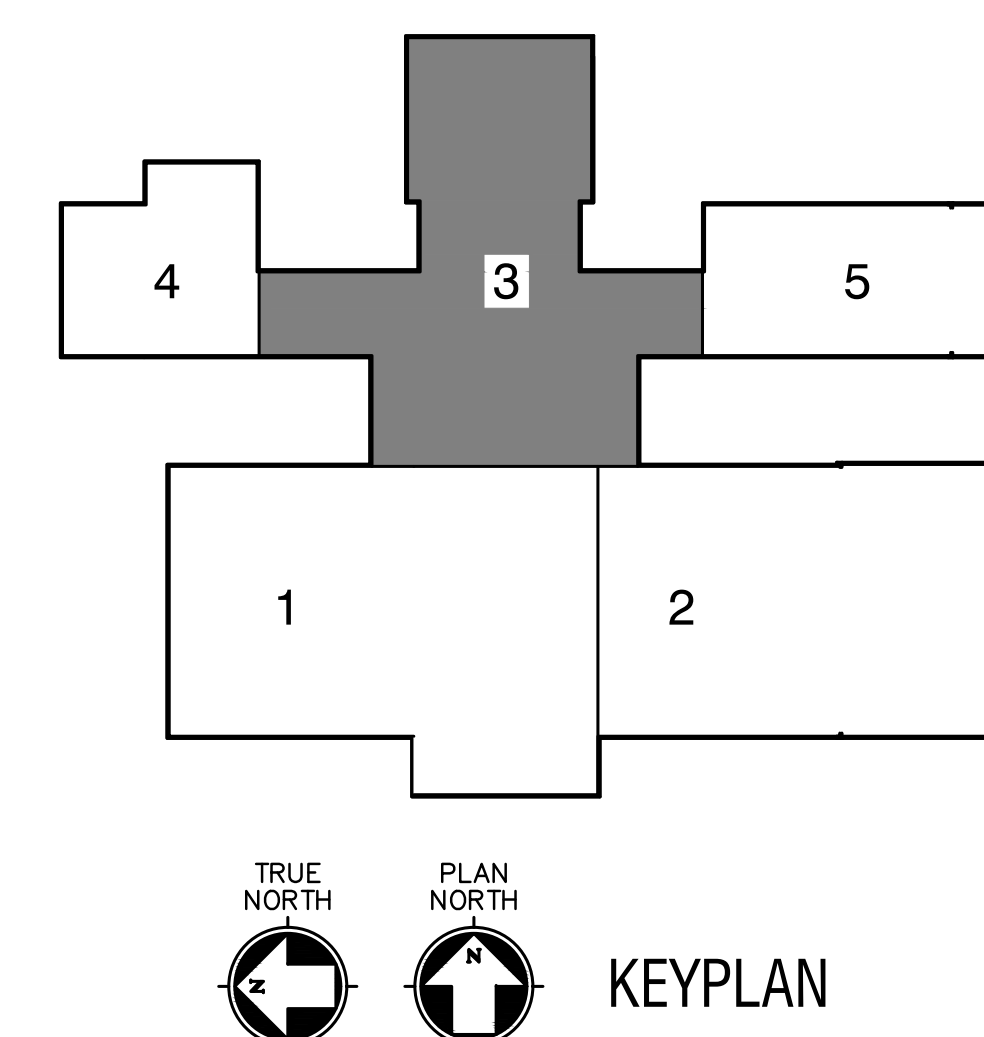
FLOOR PLAN - AREA 3  
-HVAC

CHECKED BY: HV/NH SHEET NO.
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## M1.03

1. RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 1/2" THICK ACoustICAL AND THERMAL LINER FOR THE FIRST 10'-0" FROM THE LINER AND EXTERNALLY WRAPPED WITH 1/2" INSULATION. ALL TRANSITION, ELBOWS, AND TEES ARE TO BE LINED WITH 1/2" INSULATION. RECTANGULAR RETURN DUCT SHALL BE LINED WITH 1" LINER FOR THE FIRST 10'-0" FROM THE LINER AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0". ALL TRANSITION, ELBOWS, AND TEES ARE TO BE LINED WITH 2" INSULATION. DUCT SIZES SHOWN ARE NET INTERNAL AIR STREAM DIMENSIONS. SHEET METAL SIZES ARE TO BE INCREASED IN SIZE TO MAINTAIN THESE INTERNAL CLEAR DIMENSIONS. ROUND DUCTWORK IS TO BE INSULATED WITH 1/2" MINIMUM FLEXIBLE ROUND DUCT SHALL HAVE A MINIMUM R-VALUE OF 6.0.
2. BRANCH RUN-OUTS TO CEILING MOUNTED AIR DEVICES SHALL BE SAME SIZE AS NECK, UNLESS NOTED OTHERWISE. PROVIDE A TWIST-IN FLARED PAT WITH MANUAL VOLUME CONTROL AT MAIN DUCT. PROVIDE 1/2" INSULATION TO ALL EXPOSED DUCTWORK. PROVIDE A MAXIMUM OF 5'-0" FROM DIFFUSERS, INSTANT STRAIGHT AS POSSIBLE WITH LONG RADIUS BENDS WITH CLAMPS TO BE USED AT BOTH ENDS.
3. ALL DUCTWORK AND PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS AS HIGH AS POSSIBLE AND CONCEALED IN WALLS, CHASES, OR FURRUTOS IN GENERAL LOCATIONS.
4. UNLESS NOTED OTHERWISE, ALL DUCTWORK SHALL BE 18" MINIMUM.
5. ALL DUCTWORK AND NEW DIFFUSERS OR NEW DUCTWORK CONNECTED TO UNITS CONTRACTED OR ADDED TO BE LARGELY EXISTING. EXISTING GROUNDWORK, TAB FROM CONTRACTED DIRECTLY WITH OWNER.
6. WHERE EXISTING DUCTWORK IS REMOVED AND NOT REUSED, INSTALL INSULATED CAPS AND SEAL AIR TIGHT.
7. REMOVE EXISTING CEILING GRID AND TILE AS NEEDED TO REMOVE EXISTING AND INSTALL NEW DUCTWORK, PIPING, AND UNITS. REUSE EXISTING CEILING TILE AND GRID WHERE POSSIBLE. WHERE STORE AND REUSE IS NOT SHOWN, EXISTING CEILING TILE AND GRID WHERE CEILING TILE IS REQUIRED, IT SHALL BE ALL NEW THROUGH THE ROOM AND NOT MIX NEW AND EXISTING CEILING TILE IN THE SAME SPACE. ALL CEILING HEIGHTS TO MATCH EXISTING. CEILING HEIGHTS TO MATCH EXISTING. WHERE CEILING HEIGHTS ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR WITH PRODUCTS AND MATERIALS THAT MATCH EXISTING.
8. EXISTING LIGHTS TO BE REUSED AND REMAIN IN PLACE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING REMOVAL.
9. WHERE ITEMS ARE REMOVED PATCH WALLS, CEILING, OR FLOOR AS APPLICABLE TO MATCH EXISTING FINISHES.
10. EXISTING SECURITY SYSTEM AND DEVICES TO REMAIN IN PLACE AND ACTIVE DURING CONSTRUCTION. ANY DEVICES IN CEILING TO BE REMOVED AND REPLACED TO BE TEMPORARILY SUPPORTED. ALL SECURITY SCOP OF WORK TO BE CONTRACTED WITH SAS.
11. CLEAN ALL EXISTING REUSED SUPPLY, RETURN, AND EXHAUST AIR GRILLES FREE OF ALL DUST AND DEBRIS. PAINT ALL EXISTING SUPPLY AND RETURN AIR GRILLES WHERE SIGNS SHOWN ARE NOTED. RE-USE EXISTING WIRING PATHWAY TO ACCESSIBLE CEILING, UP TO ROOF. PATCH, REPAIR AND PAINT WALL AS NEEDED.
12. NEW TEMPERATURE SENSOR TO BE INSTALLED WHERE OLD SENSOR WAS REMOVED, WHEN IN COMPLIANCE WITH ADA HEIGHT REQUIREMENTS. WHEN NOT IN COMPLIANCE PROVIDE NEW SENSOR AT ADA HEIGHT AND PROVIDE STAINLESS STEEL COVER PLATE OVER SENSOR. WALL OPENING TO RE-USE EXISTING WIRING PATHWAY TO ACCESSIBLE CEILING, UP TO ROOF. PATCH, REPAIR AND PAINT WALL AS NEEDED.
13. PROVIDE FLOOR PROTECTION IN ALL AREAS OF THE DEMOLITION AND NEW WORK THROUGHOUT BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND STAIRWELL TO BE RAMP BOARD OR EQUIVALENT FLOOR PROTECT

- ① EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW UNIT CONNECTIONS ON ROOF.
- ② EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW FAN CONNECTIONS ON ROOF.
- ③ NEW TEMPERATURE OR TEMPERATURE/HUMIDITY SENSOR.
- ④ NEW SUPPLY AND RETURN DUCTWORK TRANSITION IN VERTICAL TO NEW UNIT CONNECTIONS ON ROOF.



**MATCHLINE**  
**REFER TO SHEET M1.04**  
**FOR CONTINUATION**

**MATCHLINE**  
**REFER TO SHEET M1.05**  
**FOR CONTINUATION**

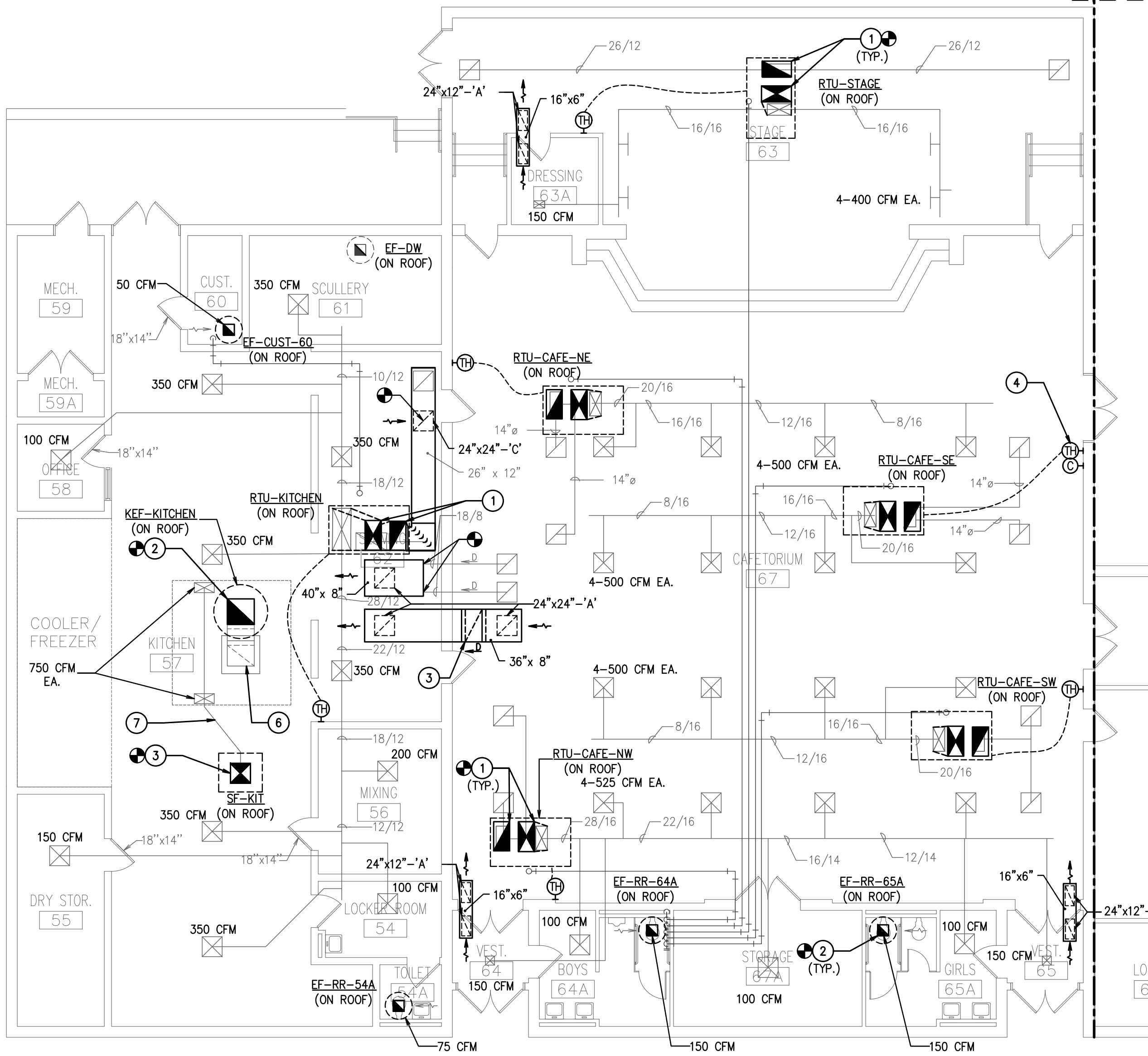
**MATCHLINE**  
REFER TO SHEET M1.01  
FOR CONTINUATION

**MATCHLINE**  
REFER TO SHEET M1.02  
FOR CONTINUATION

TRUE NORTH PLAN NORTH 01 FLOOR PLAN - AREA 3 - HVAC SCALE: 1/8" = 1'-0"

TRUE NORTH      PLAN NORTH      KEYPLAN



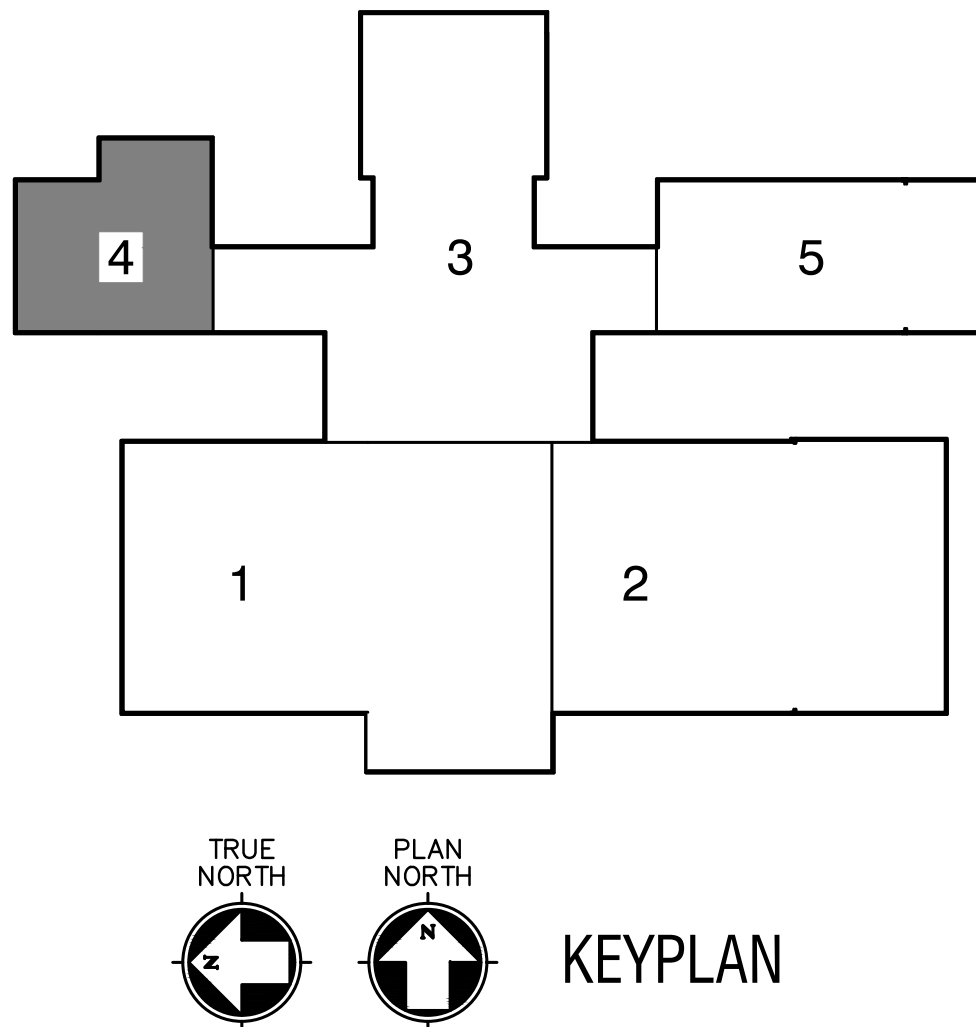


TRUE NORTH  
PLAN NORTH  
01 FLOOR PLAN - AREA 4 - HVAC  
SCALE: 1/8" = 1'-0"

- GENERAL MECHANICAL NOTES:**
- RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 1/2" THICK ACOUSTICAL AND THERMAL LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0" TO MEET THE 2018 IECC REQUIREMENTS. RECTANGULAR RETURN DUCT SHALL BE LINED WITH 1" LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0". ALL TRANSFER AIR DUCTS TO BE INTERNALLY LINED WITH 1" LINER. DUCTWORK SIZES SHOWN ARE NET INTERNAL AIR STREAM DIMENSIONS. SHEET METAL SIZES ARE TO BE INCREASED IN SIZE TO MAINTAIN THESE INTERNAL CLEAR DIMENSIONS. ROUND DUCTWORK IS TO BE EXTERNALLY WRAPPED. FLEXIBLE ROUND DUCT SHALL HAVE A MINIMUM R-VALUE OF 6.0.
  - BRANCH RUN-OUTS TO CEILING MOUNTED AIR DEVICES SHALL BE SAME SIZE AS NECK, UNLESS NOTED OTHERWISE. PROVIDE A TWIST-IN FLARED TAP WITH MANUAL VOLUME DAMPER AT MAIN DUCT TAP, AND EXTEND AS SHOWN. EXTEND FLEXIBLE DUCTWORK A MAXIMUM OF 5'-0" FROM DIFFUSERS, INSTALL STRAIGHT AS POSSIBLE WITH LONG RADIUS BENDS WITH CLAMPS TO BE USED AT BOTH ENDS.
  - ALL DUCTWORK AND PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS AS HIGH AS POSSIBLE & CONCEALED IN WALLS, CHASES, OR FURROUTS IN GENERAL LOCATIONS SHOWN, UNLESS NOTED OTHERWISE.
  - LOCATE CEILING MOUNTED AIR DEVICES APPROXIMATELY WHERE SHOWN. VERIFY EXISTING CEILING TYPES TO CONFIRM FRAME MOUNTING TYPES REQUIRED. ALL CEILING DIFFUSERS TO BE FOUR-WAY TYPE UNLESS NOTED OTHERWISE BY AIR FLOW ARROWS ON FLOOR PLAN.
  - EXISTING AND NEW DIFFUSERS FOR ALL DUCTWORK CONNECTED TO UNITS REPLACED OR ADDED TO BE BALANCED TO NEW AIRFLOW VALUES SHOWN. TAB FIRM CONTRACTED DIRECTLY WITH OWNER.
  - WHERE EXISTING DUCTWORK IS REMOVED AND NOT REUSED, INSTALL INSULATED CAPS AND SEAL AIR TIGHT.
  - REMOVE EXISTING CEILING GRID AND TILE AS NEEDED TO REMOVE EXISTING AND INSTALL NEW DUCTWORK, PIPING, AND UNITS. REUSE EXISTING CEILING TILE AND GRID WHERE POSSIBLE. STORE AND STACK EXISTING TILE FOR REUSE AND PROTECT WHERE NEW CEILING TILE IS REQUIRED, IT SHALL BE ALL NEW THROUGH THE ROOM. DO NOT MIX NEW AND EXISTING CEILING TILE IN THE SAME SPACE. ALL NEW CEILING HEIGHTS TO MATCH EXISTING CEILING HEIGHTS. ANY CEILINGS TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR WITH PRODUCTS AND MATERIALS THAT MATCH EXISTING.
  - EXISTING LIGHTS TO BE REUSED AND REMAIN IN PLACE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING REMOVAL.
  - WHERE ITEMS ARE REMOVED PATCH WALLS, CEILING, OR FLOOR AS APPLICABLE TO MATCH EXISTING FINISHES.
  - EXISTING SECURITY SYSTEM AND DEVICES TO REMAIN IN PLACE AND ACTIVE DURING CONSTRUCTION. ANY DEVICES IN CEILINGS TO BE REMOVED AND REPLACED TO BE TEMPORARILY SUPPORTED. ALL SECURITY SCOPE OF WORK TO BE CONTRACTED WITH SAS.
  - CLEAN ALL EXISTING REUSED SUPPLY, RETURN, AND EXHAUST AIR GRILLES FREE OF ALL DUST AND DEBRIS. PAINT ALL EXISTING SUPPLY AND RETURN AIR GRILLES WHERE SIGNS OF RUST ARE NOTED ON EXISTING GRILLES TO MATCH EXISTING COLOR OF GRILLE.
  - NEW TEMPERATURE SENSOR TO BE INSTALLED WHERE OLD SENSOR WAS REMOVED, WHEN IN COMPLIANCE WITH ADA HEIGHT REQUIREMENTS. WHEN NOT IN COMPLIANCE PROVIDE NEW SENSOR AT ADA HEIGHT AND PROVIDE STAINLESS STEEL COVER PLATE OVER EXISTING WALL OPENING. RE-USE EXISTING WIRING PATHWAY TO ACCESSIBLE CEILING, UP TO ROOF. PATCH, REPAIR AND PAINT WALL AS NEEDED.
  - PROVIDE FLOOR PROTECTION IN ALL AREAS OF THE DEMOLITION AND NEW WORK THROUGHOUT BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE FULL WIDTH OF CORRIDOR AND STAIRWELL TO BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

**NOTES BY SYMBOL 'O':**

- EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW UNIT CONNECTIONS ON ROOF.
- EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW FAN CONNECTIONS ON ROOF.
- EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW MAKE-UP AIR UNIT CONNECTION ON THE ROOF.
- PROVIDE NEW TEMPERATURE, HUMIDITY, AND CO2 SENSOR. CONNECT TO NEW UNIT ON THE ROOF.
- ROUTE TRANSFER AIR DUCTWORK FROM CAFETERIA CEILING DOWN IN FURDOWN ON CAFETERIA SIDE TO ABOVE CEILING SPACE OF KITCHEN. REMOVE A PORTION OF EXISTING FURDOWN AS NEEDED TO ACCOMMODATE THE DUCTWORK AND RE-INSTALL TO MATCH EXISTING.
- PROVIDE NEW FIBRE WRAP INSULATION ON KITCHEN GREASE HOOD EXHAUST DUCTWORK FROM HOOD CONNECTION BACK TO FAN CONNECTION ON ROOF.
- PROVIDE NEW INSULATION ON MAKE-UP AIR DUCT AS NOTED IN SPECIFICATIONS FROM HOOD CONNECTION BACK TO FAN CONNECTION ON ROOF.
- NEW CEILING MOUNTED CO SENSOR.



2023.04.28

**ISSUES**

01 ISSUE FOR CONSTRUCTION 2023.04.28

**REVISIONS**



**T.E. BAXTER ES**  
**HVAC REPLACEMENT**  
MIDLOTHIAN I.S.D.  
1050 Park Pl Blvd, Midlothian, TX 76065

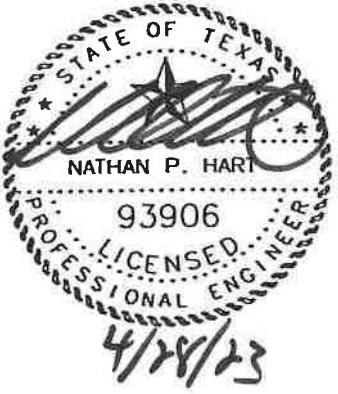
FLOOR PLAN - AREA 4  
-HVAC

JOB NO.: 22146-00  
DRAWN BY: ND  
CHECKED BY: HW/NH

SHEET NO.

**M1.04**





ISSUES

[illegible]

## REVISIONS

[illegible]

**T.E. BAXTER ES**  
**HVAC REPLACEMENT**  
MIDLOTHIAN I.S.D.  
1050 Park Pl Blvd, Midlothian, TX 76065

FLOOR PLAN - AREA 5  
-HVAC

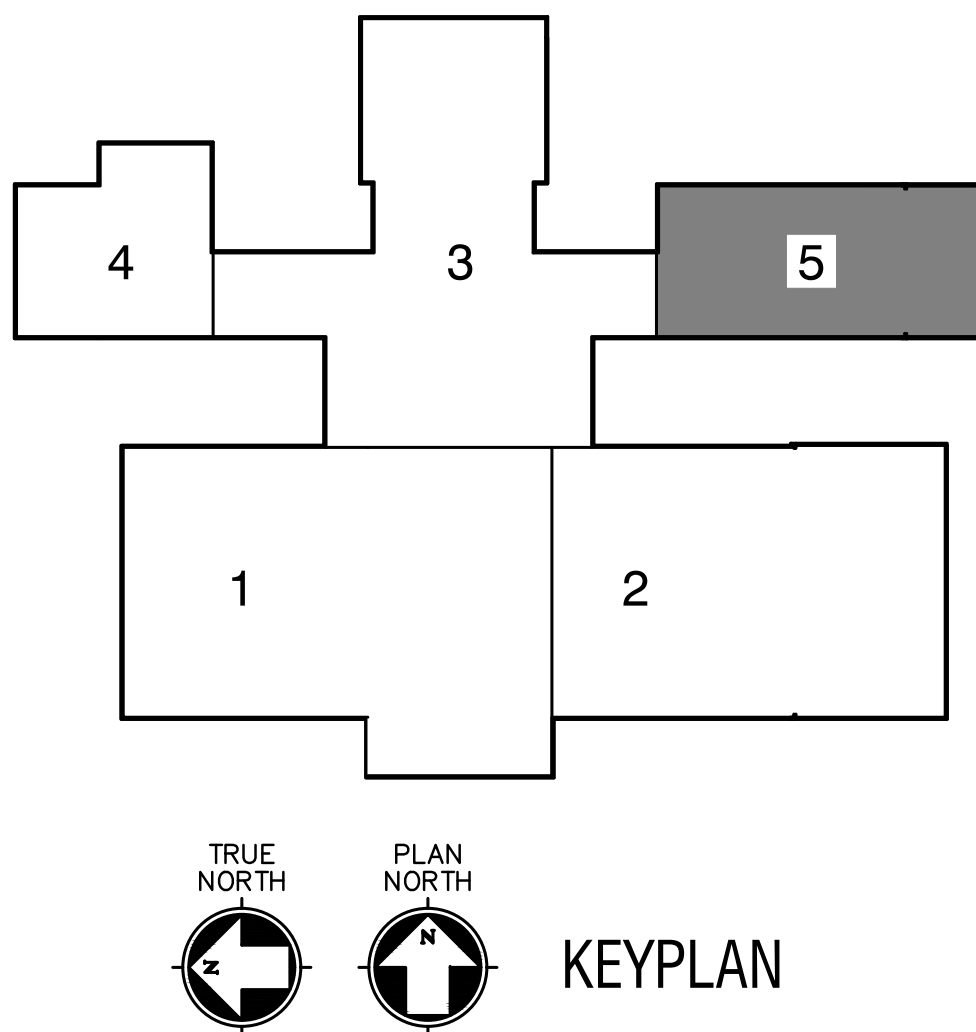
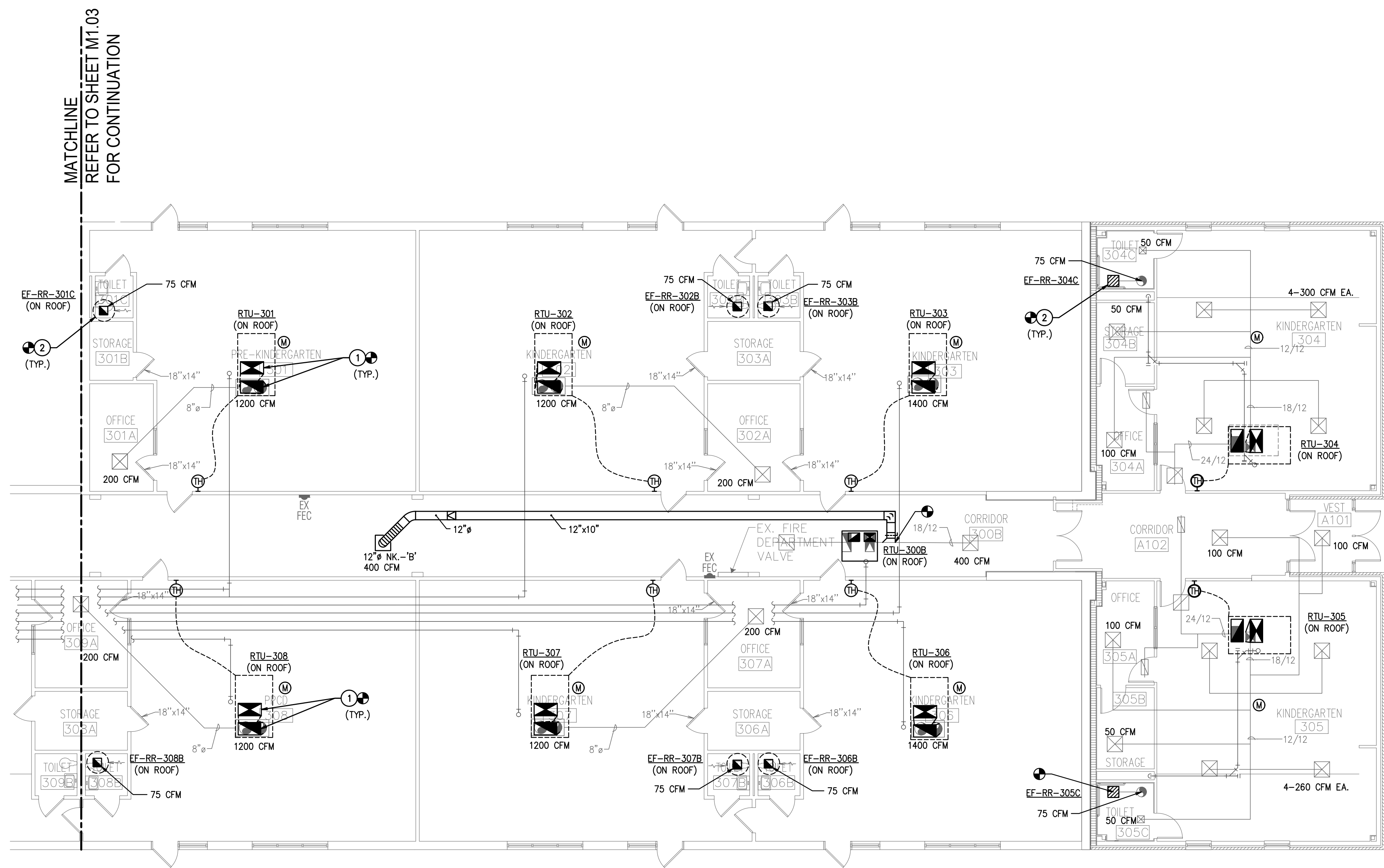
JOB NO.: 22146-00  
DRAWN BY: ND  
CHECKED BY: HV/NH

SHEET NO.

# M1.05

1. RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 1/2" THICK ACoustICAL AND THERMAL LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0" TO MEET THE 2018 ECHO REQUIREMENT. RECTANGULAR RETURN DUCT SHALL BE LINED WITH 1" LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0". TRANSFER DUCTS SHALL BE LINED WITH 1" LINER FOR THE FIRST 10'-0". DUCT SIZES SHOWN ARE NET INTERNAL AIR STREAM DIMENSIONS. SHEET METAL SIZES ARE TO BE INCREASED IN SIZE TO MAINTAIN THESE INTERNAL CLEAR DIMENSIONS. ROUND DUCTWORK IS TO BE EXTERNALLY WRAPPED. FLEXIBLE ROUND DUCT SHALL HAVE A MINIMUM R=VALUE OF 6.0.
2. BRANCH RUN-OUTS TO CEILING MOUNTED AIR DEVICES SHALL BE SAME SIZE AS NECK UNLESS NOTED OTHERWISE. PROVIDE A TWS1-IN FLARED TAP WITH MANUAL VOLUME DAMPER FOR EACH RUN-OUT. BRANCH RUN-OUTS TO EXTEND FLEXIBLE DUCTWORK MAXIMUM OF 5'-0" FROM DIFFUSERS, INSTANT STRAIGHT AS POSSIBLE WITH LONG RADII BENDS WITH CLAMPS TO BE USED AT BOTH ENDS.
- ALL DUCTWORK AND PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS AS HIGH AS POSSIBLE TO CLEAR ALL OBSTACLES, CHASES, OR FURROWS IN GENERAL LOCATIONS. SHOW, UNLESS NOTED OTHERWISE.
4. LOCATE CEILING MOUNTED AIR DEVICES APPROXIMATELY WHERE SHOWN. VERIFY EXISTING CEILING TYPES TO CONFIRM FRAME MOUNTING TYPES REQUIRED. ALL CEILING DIFFUSERS TO BE FOUR-WAY TYPE UNLESS NOTED OTHERWISE BY AIR FLOW ARROWS ON FLOOR PLAN.
5. EXISTING AND NEW DIFFUSERS FOR ALL DUCTWORK CONNECTED TO UNITS REPLACED OR ADDED TO BE BALANCED TO NEW AIRFLOW VALUES SHOWN. TAB FIRM CONTRACTED DIRECTLY WITH OWNER.
6. WHERE EXISTING DUCTWORK IS REMOVED AND NOT REUSED, INSTALL INSULATED CAPS AND SEAL AIR TIGHT.
7. REMOVE EXISTING CEILING GRID AND TILE AS NEEDED TO REMOVE EXISTING AND INSTALL NEW DUCTWORK, PIPING, AND UNITS. REUSE EXISTING CEILING TILE AND GRID WHERE POSSIBLE. REMOVE EXISTING CEILING LIGHTS AND PATCH. REMOVE EXISTING CEILING TILE IF CEILING TILE IS REQUIRED, IT SHALL BE ALL NEW THROUGH THE ROOM. DO NOT MIX NEW AND EXISTING CEILING TILE. REMOVE EXISTING CEILING LIGHTS AND PATCH EXISTING CEILING LIGHTS. ANY CEILINGS TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR WITH PRODUCTS AND MATERIALS THAT MATCH EXISTING.
8. EXISTING LIGHTS TO BE REUSED AND REMAIN IN PLACE. CONTRACTOR TO SUPPORT LIGHTS ABOVE CEILING DURING ANY CEILING REMOVAL.
9. WHERE ITEMS ARE REMOVED PATCH WALLS, CEILING, OR FLOOR AS APPLICABLE TO MATCH EXISTING FINISHES.
10. EXISTING SECURITY SYSTEM AND DEVICES TO REMAIN IN PLACE AND ACTIVE DURING CONSTRUCTION. ANY DEVICES IN CEILINGS TO BE REMOVED AND REPLACED TO BE TEMPORARILY SUPPORTED. ALL SECURITY SCOPE OF WORK TO BE CONTRACTED WITH SAS.
11. CLEAN ALL EXISTING REUSED SUPPLY, RETURN, AND EXHAUST AIR GRILLES FREE OF ALL DUST AND DEBRIS. PAINT EXISTING SUPPLY AND EXHAUST AIR GRILLES WHERE SIGNS OF CORROSION ARE NOTED ON EXISTING GRILLES TO MATCH EXISTING COLOR.
12. NEW TEMPERATURE SENSOR TO BE INSTALLED WHERE OLD SENSOR WAS REMOVED, WHEN IN COMPLIANCE WITH ADA HEIGHT REQUIREMENTS. WHEN NOT IN COMPLIANCE PROVIDE NEW SENSOR AT ADA HEIGHT AND PROVIDE STAINLESS STEEL COVER PLATE OVER EXISTING WALL OPENING. RE-USE EXISTING WIRING PATHWAYS TO ACCESSIBLE CEILING, UP TO ROOM. PATCH, REPAIR AND PAINT WALL AS NEEDED.
13. PROVIDE FLOOR PROTECTION IN ALL AREAS OF THE DEMOLITION AND NEW WORK THROUGHOUT BUILDING FROM WORK AREA TO EXTERIOR. FLOORING PROTECTION TO BE 1/2" MINIMUM THICKNESS OF CORRIDOR AND STAIRWELL TO BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

- ① EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW UNIT CONNECTIONS ON ROOF.
- ② EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW FAN CONNECTIONS ON ROOF.



**01 FLOOR PLAN - AREA 5 - HVAC**  
SCALE: 1/8" = 1'-0"

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



2023.04.28

ISSUES  
01 ISSUE FOR CONSTRUCTION 2023.04.28

REVISIONS



**T.E. BAXTER ES**  
**HVAC REPLACEMENT**  
MIDLOTHIAN I.S.D.  
1050 Park Pl Blvd, Midlothian, TX 76065

DETAILS -  
MECHANICAL &  
PLUMBING

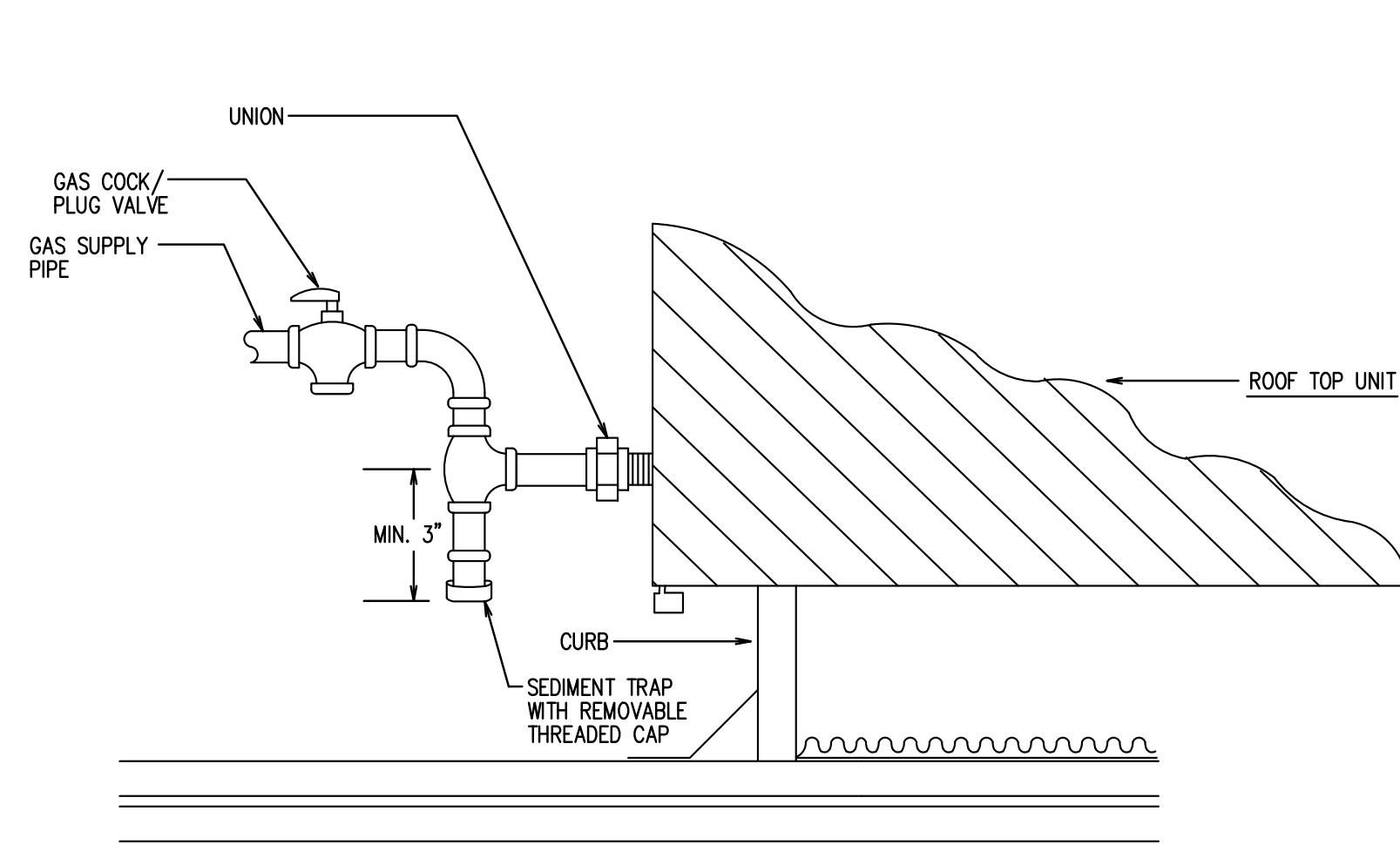
JOB NO.: 22146-00

DRAWN BY: ND

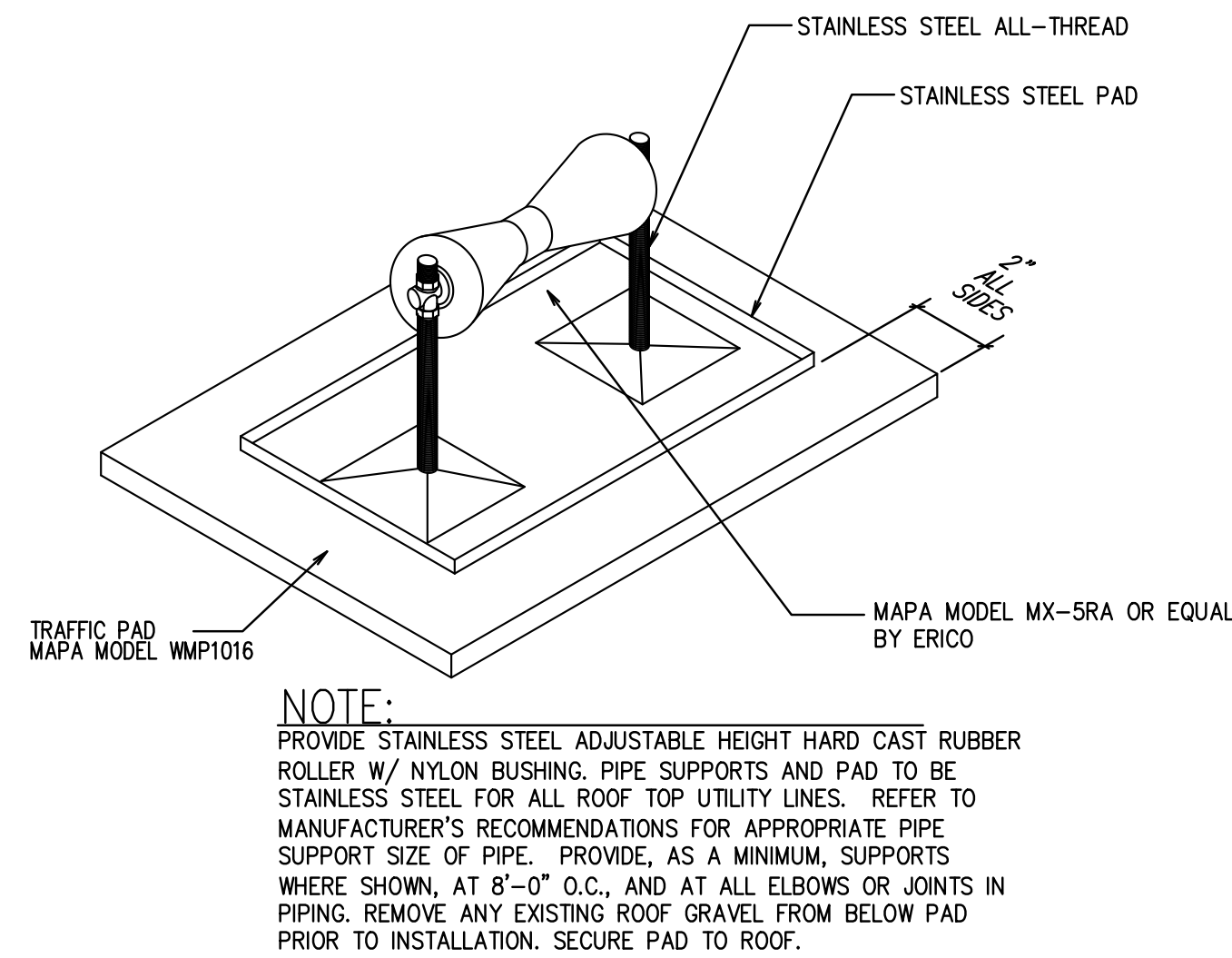
CHECKED BY: HW/NH

SHEET NO.

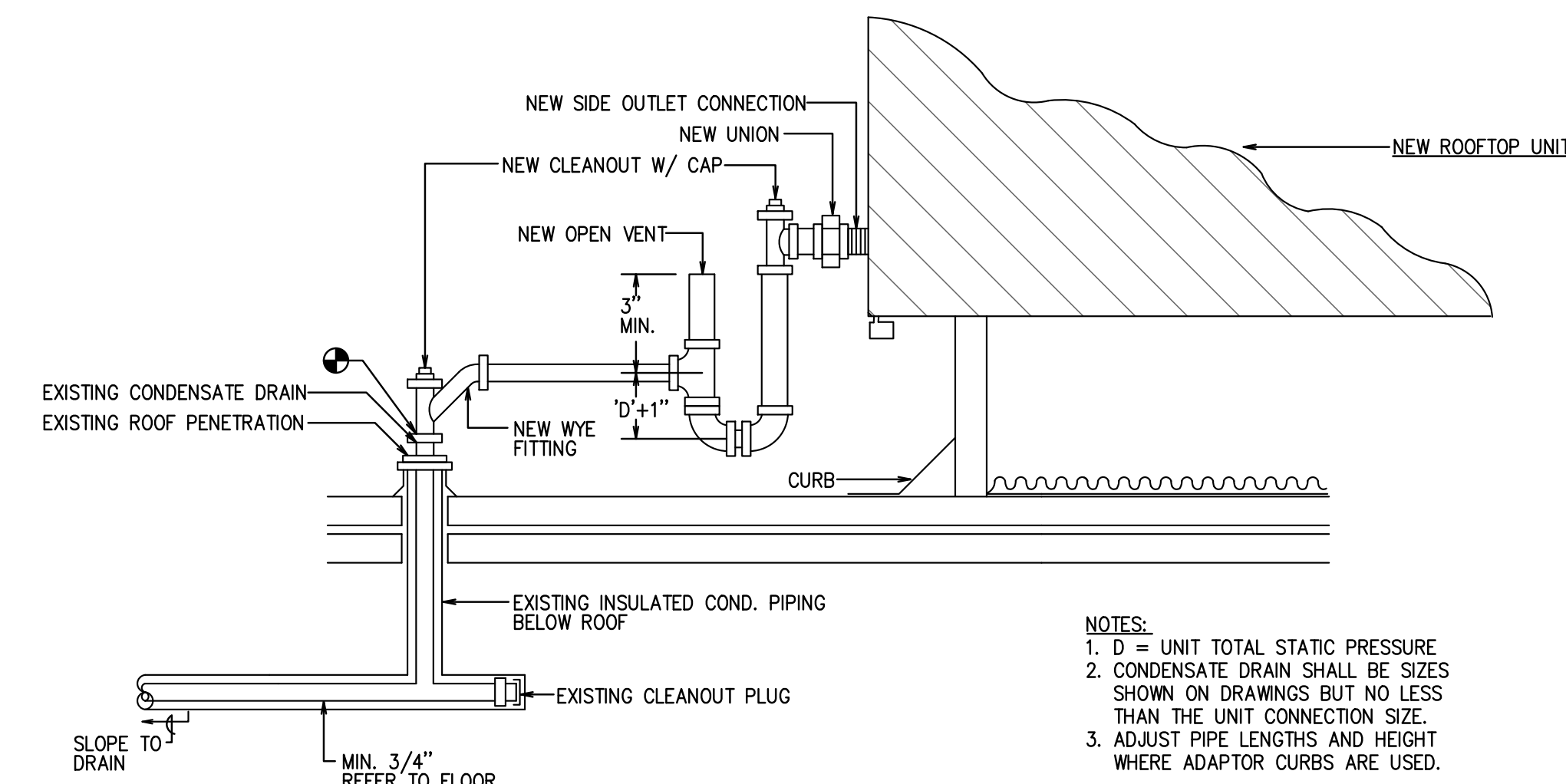
**MP2.01**



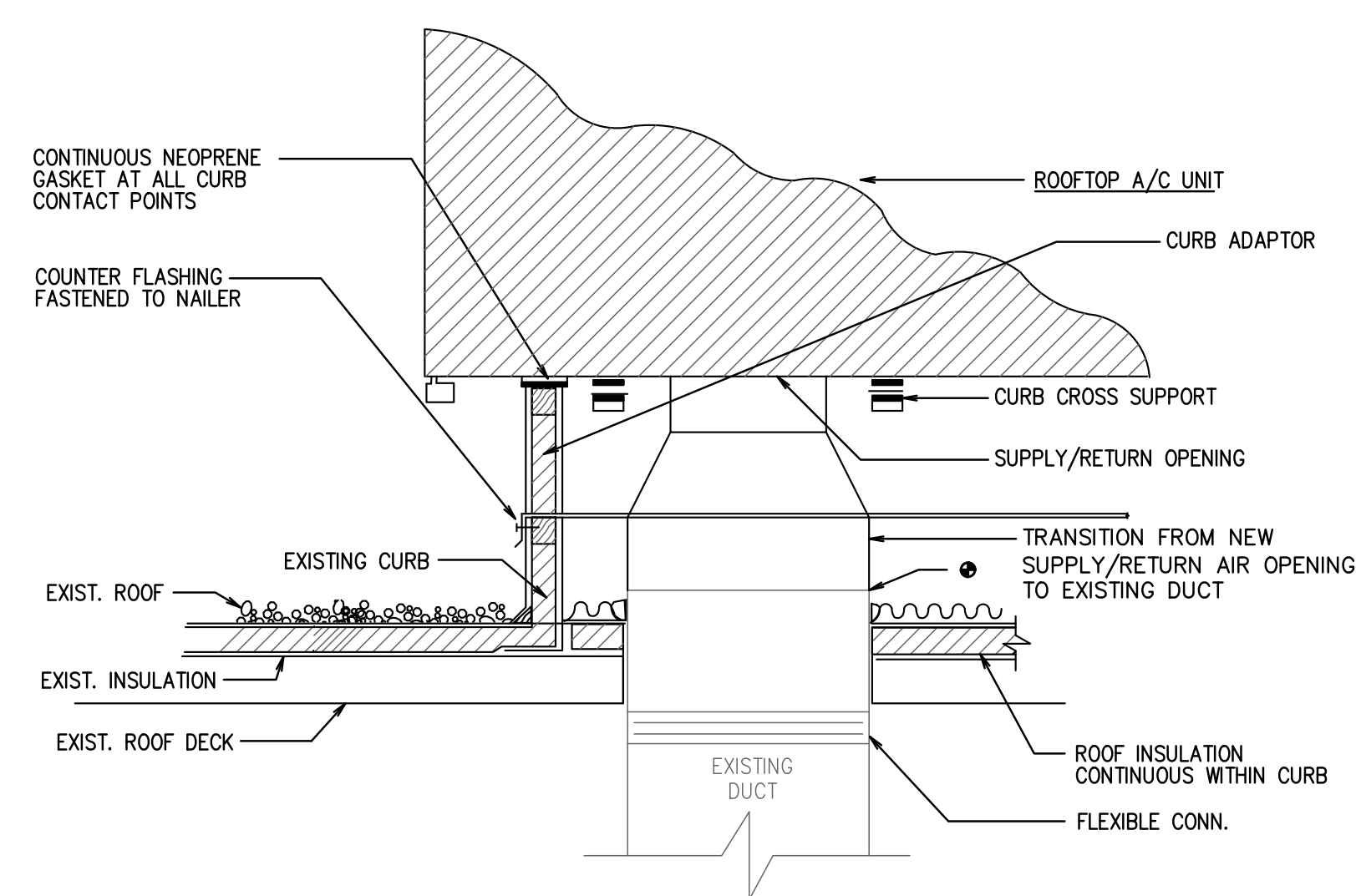
**02** ROOF TOP A/C UNIT GAS PIPING  
NOT TO SCALE



**02** GAS OR CONDENSATE PIPE SUPPORT  
NOT TO SCALE

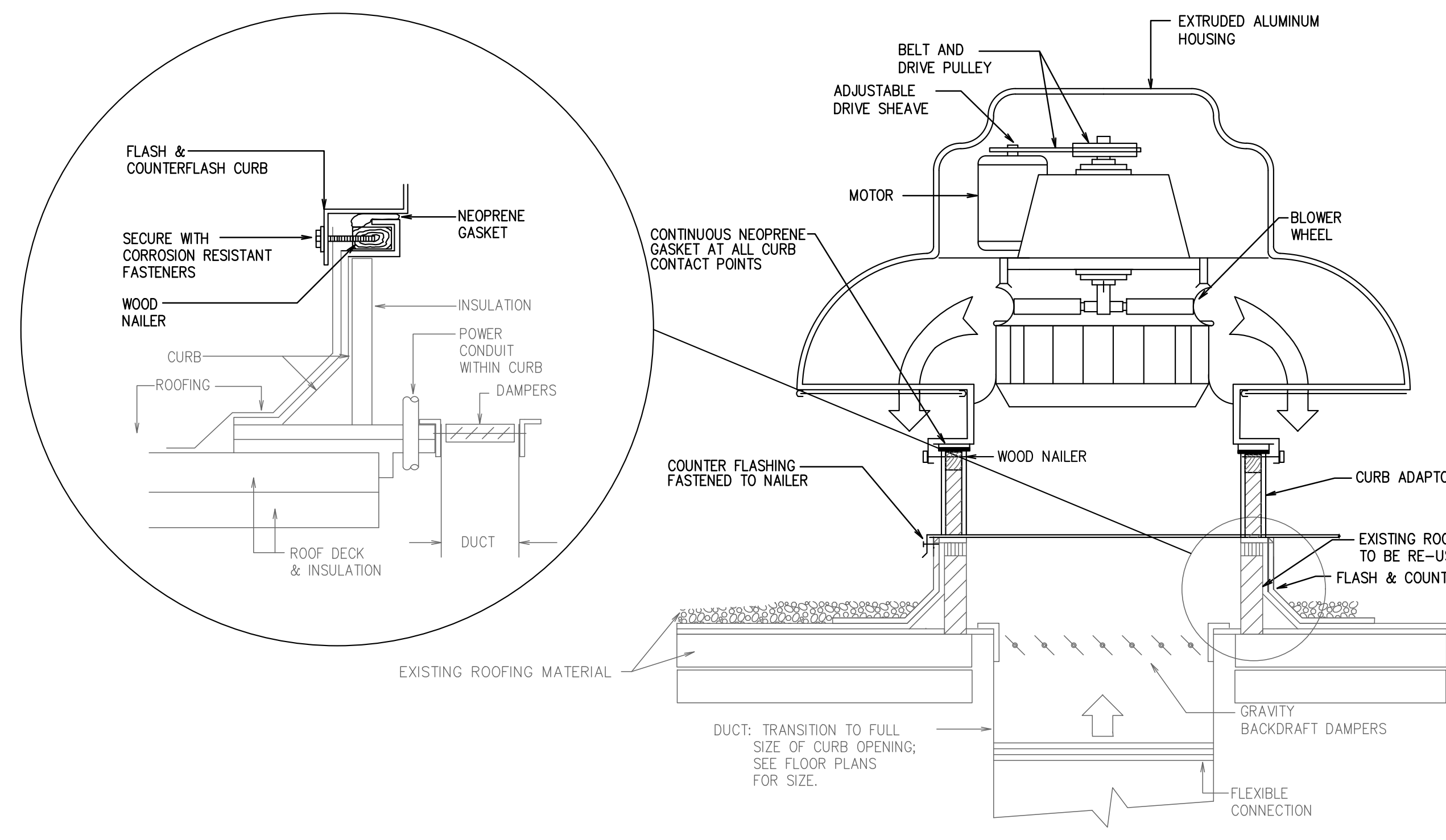


**03** ROOFTOP A/C UNIT CONDENSATE DRAIN DETAIL  
NOT TO SCALE

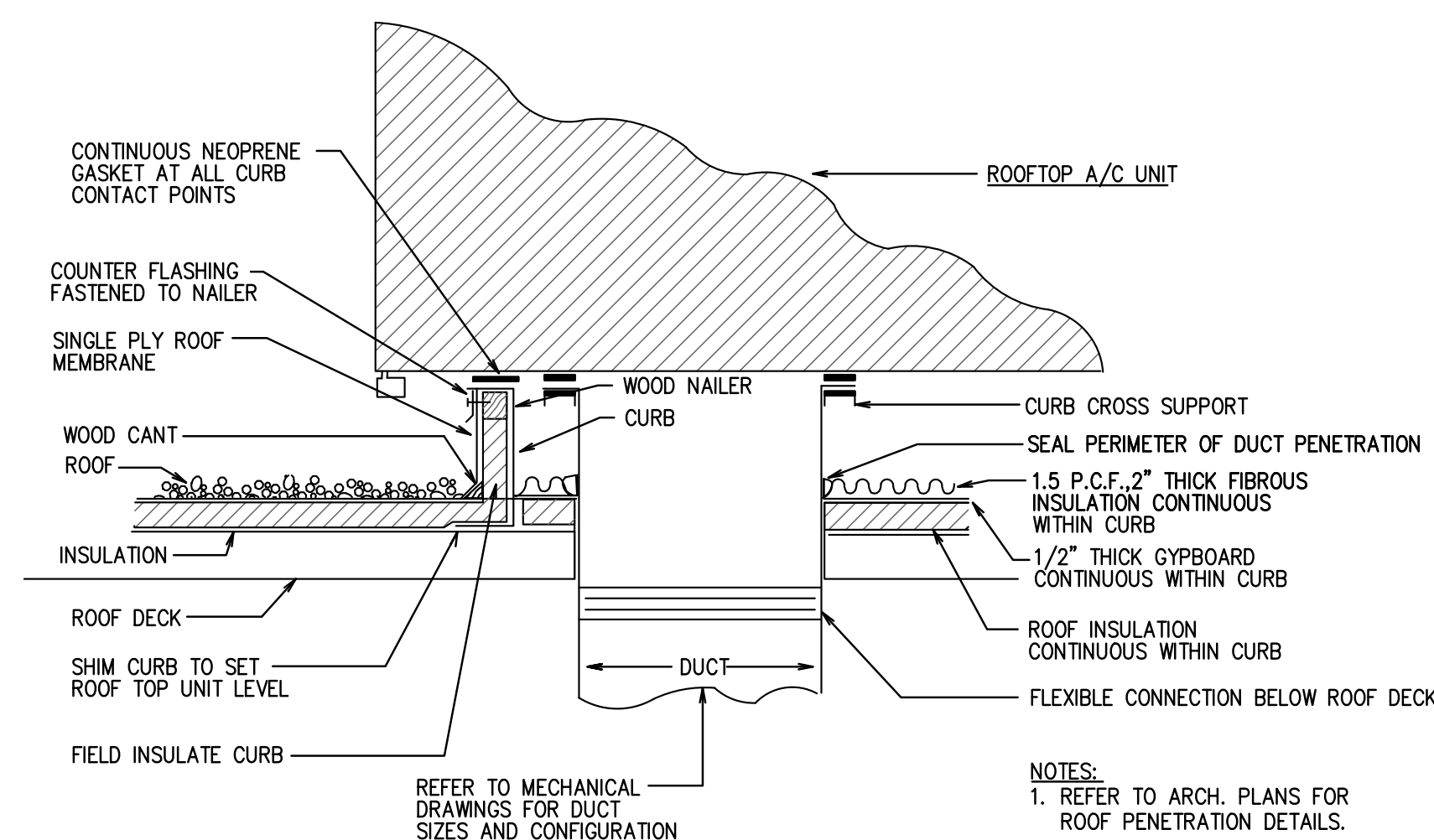


**04** ROOFTOP A/C UNIT WITH ADAPTER CURB DETAIL  
NOT TO SCALE

- NOTE:
1. CURB ADAPTOR TO BE OF ADEQUATE HEIGHT TO ALLOW FOR NO GREATER FROM 45 DEG. ANGLE TRANSITION BETWEEN NEW AND EXISTING DUCT IN CURB. CURB ADAPTERS SHALL NOT HAVE ANY FLAT HORIZONTAL PORTIONS OF CURB.
  2. PROVIDE ADAPTER CURB ONLY WHEN NEEDED.
  3. NO PENETRATIONS OF ANY TYPE ALLOWED IN HORIZONTAL PORTION OF CURB.
  4. ALL FASTENERS IN CURB TO BE CORROSION RESISTANT FASTENERS WITH NEOPRENE GASKETS.

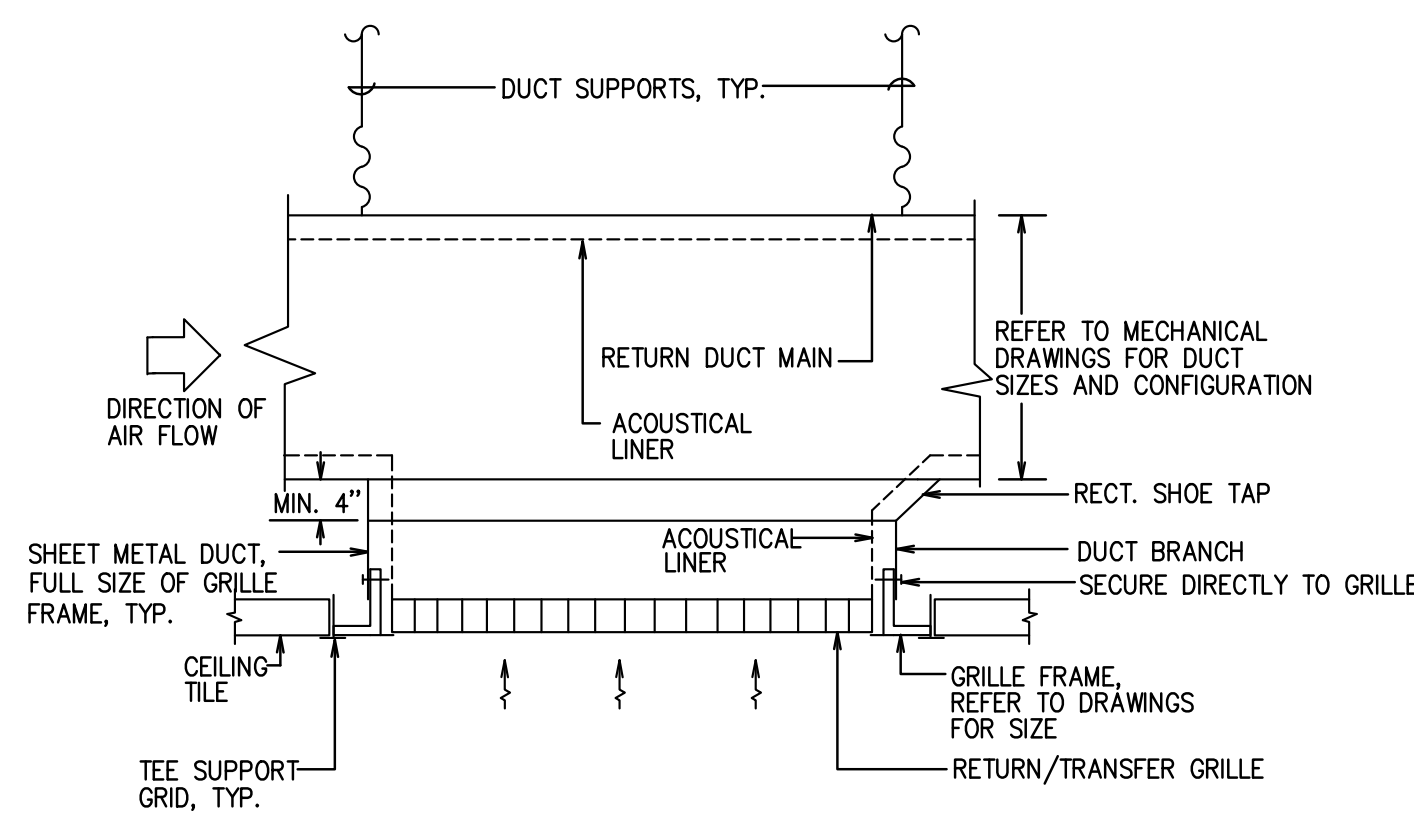


**05** ROOF TOP CENTRIFUGAL EXHAUST FAN MOUNTED ON EXISTING CURB DETAIL  
NOT TO SCALE

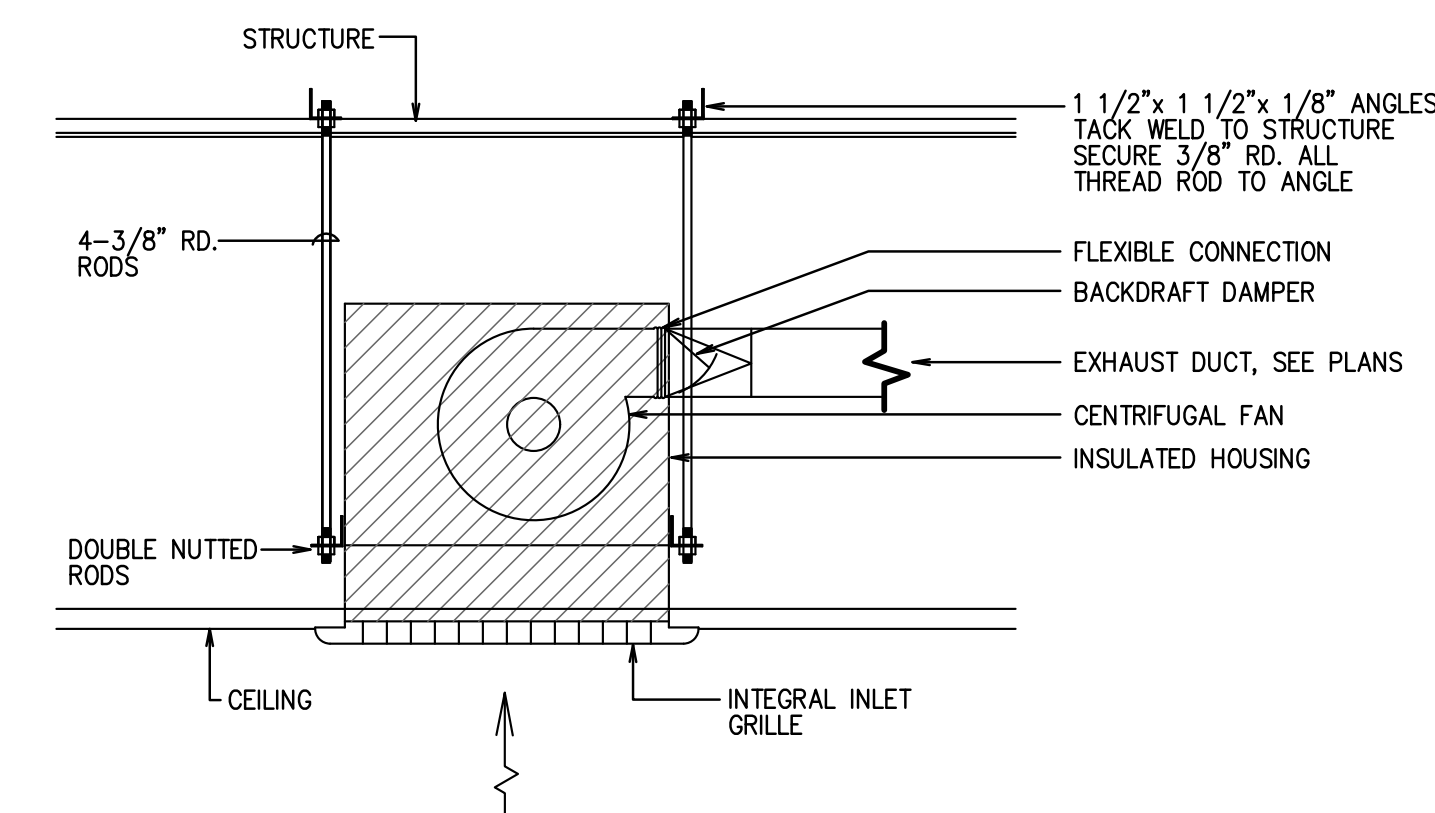


**06** ROOFTOP A/C UNIT CURB DETAIL  
NOT TO SCALE

- NOTES:
1. REFER TO ARCH. PLANS FOR ROOF PENETRATION DETAILS.
  2. CONTRACTOR SHALL SOUND PROOF CURBS AS DETAILED OR FURNISH SOUND ATTENUATING CURBS AS SPECIFIED.

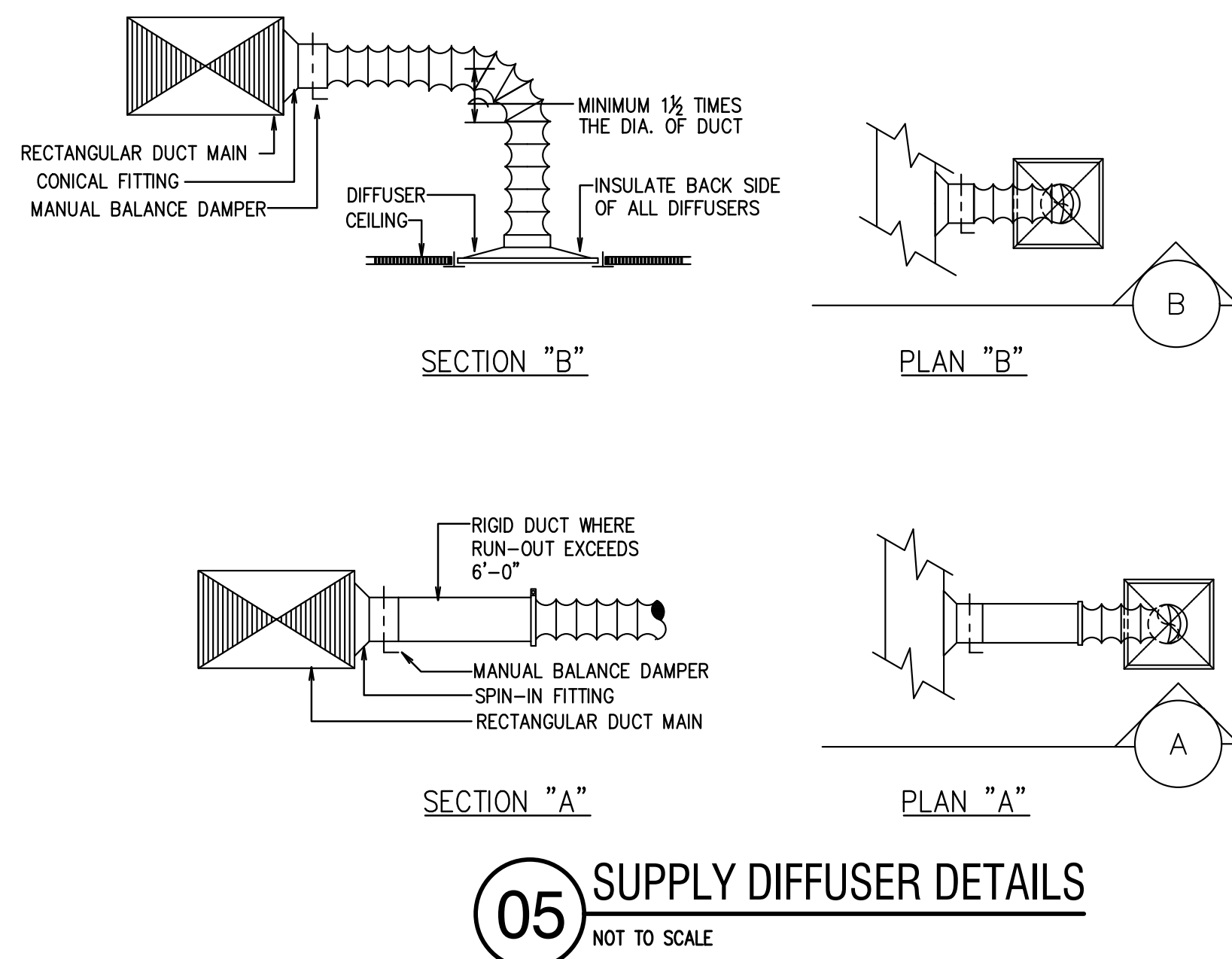
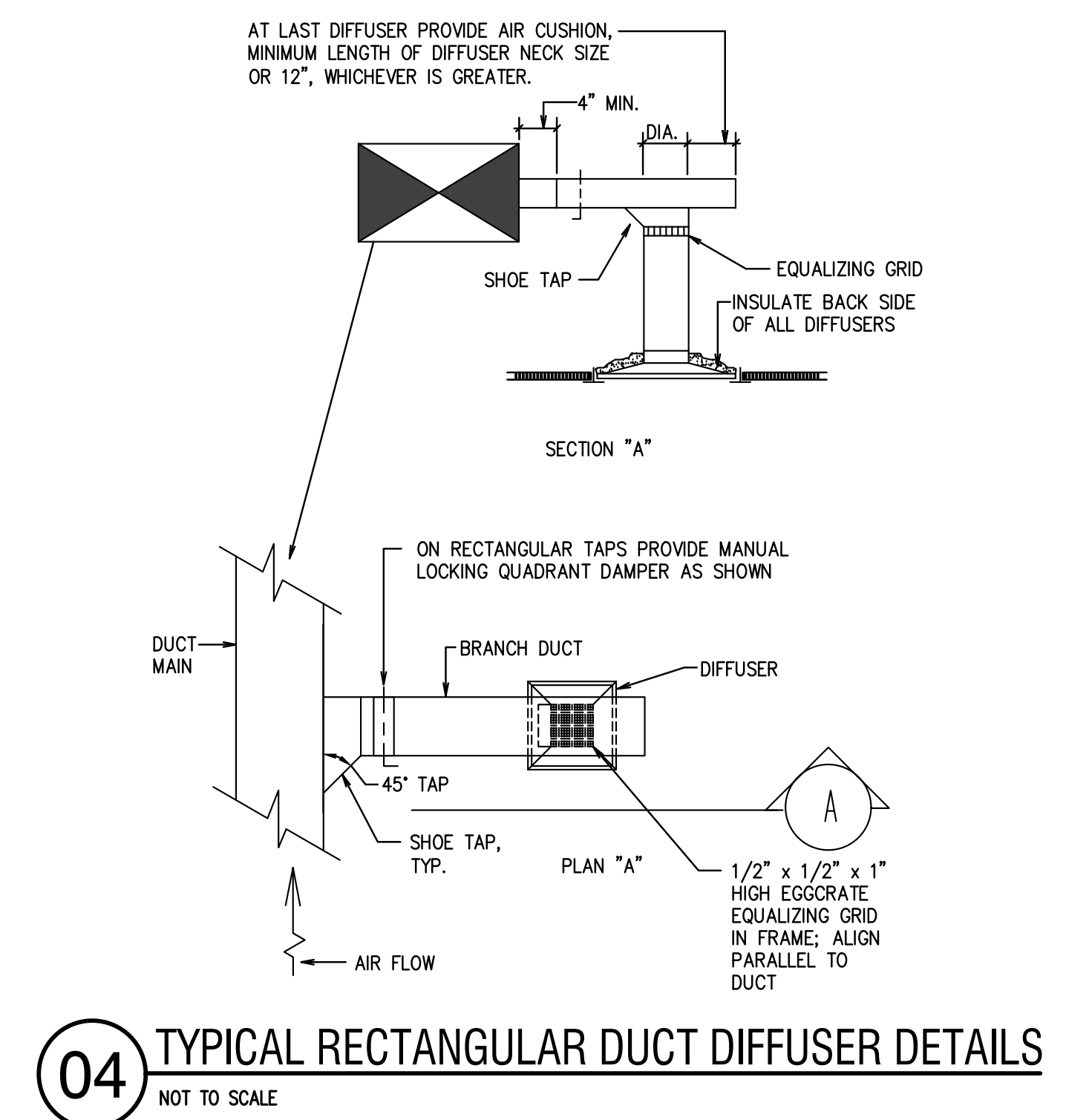
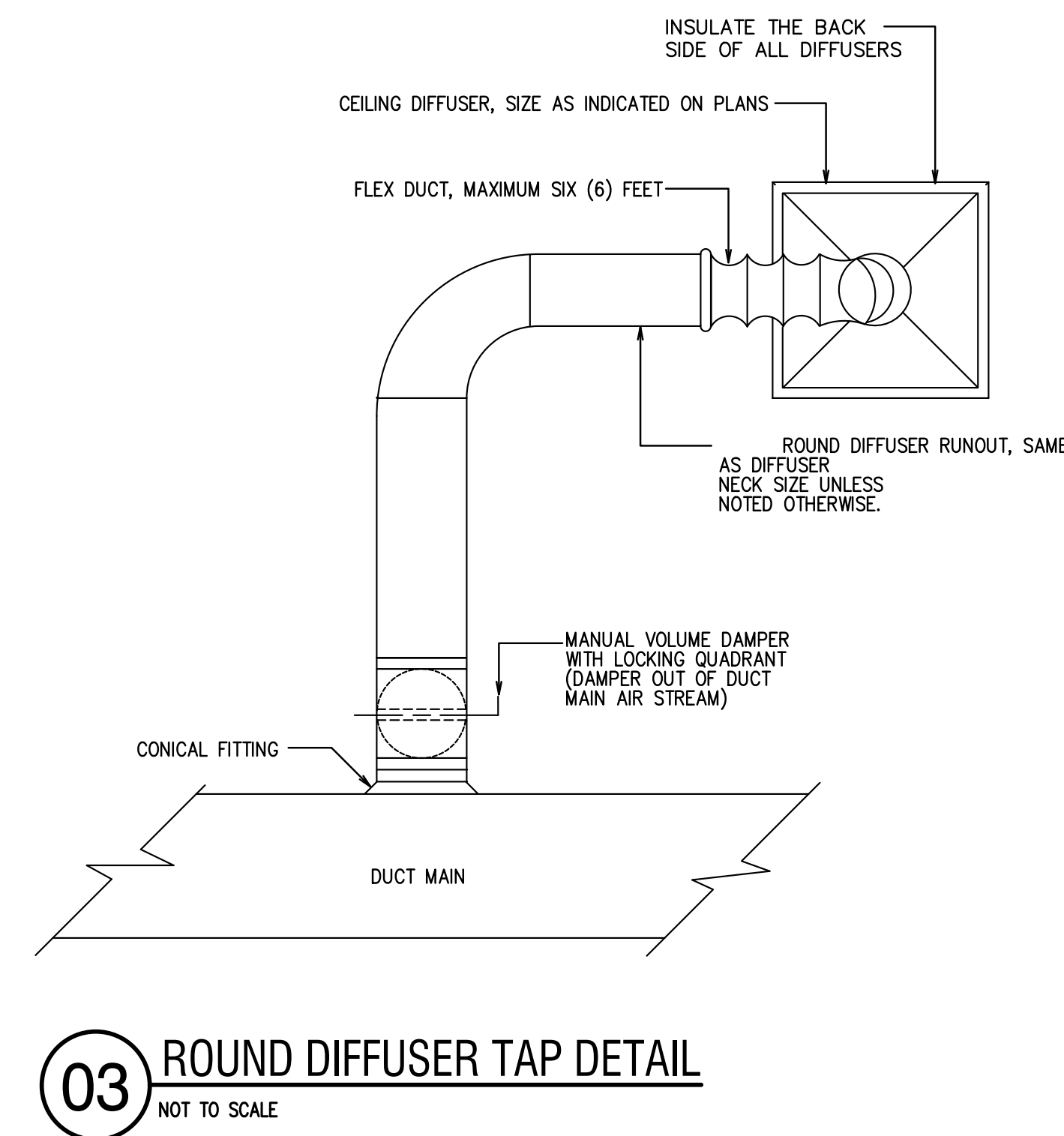
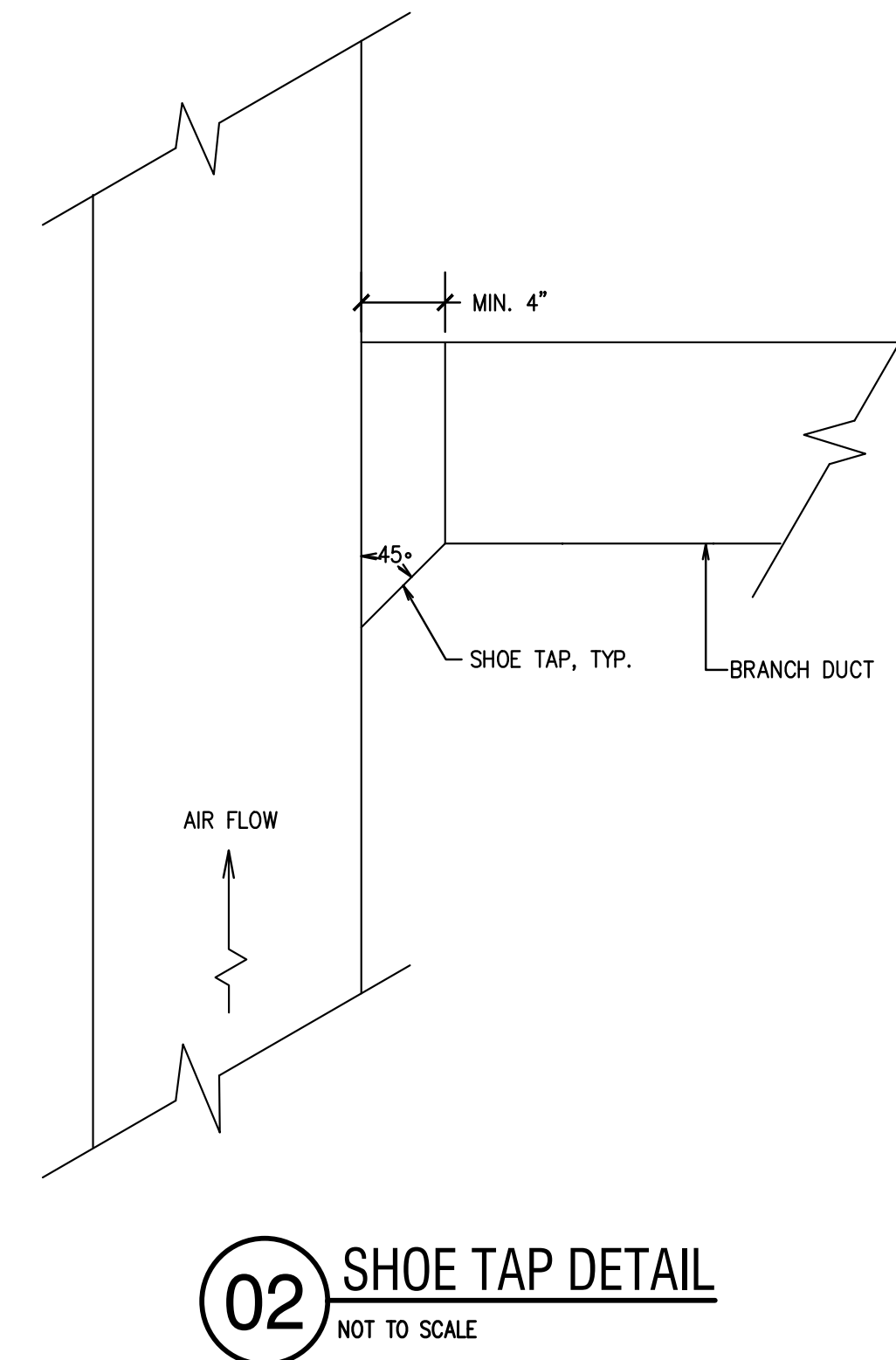
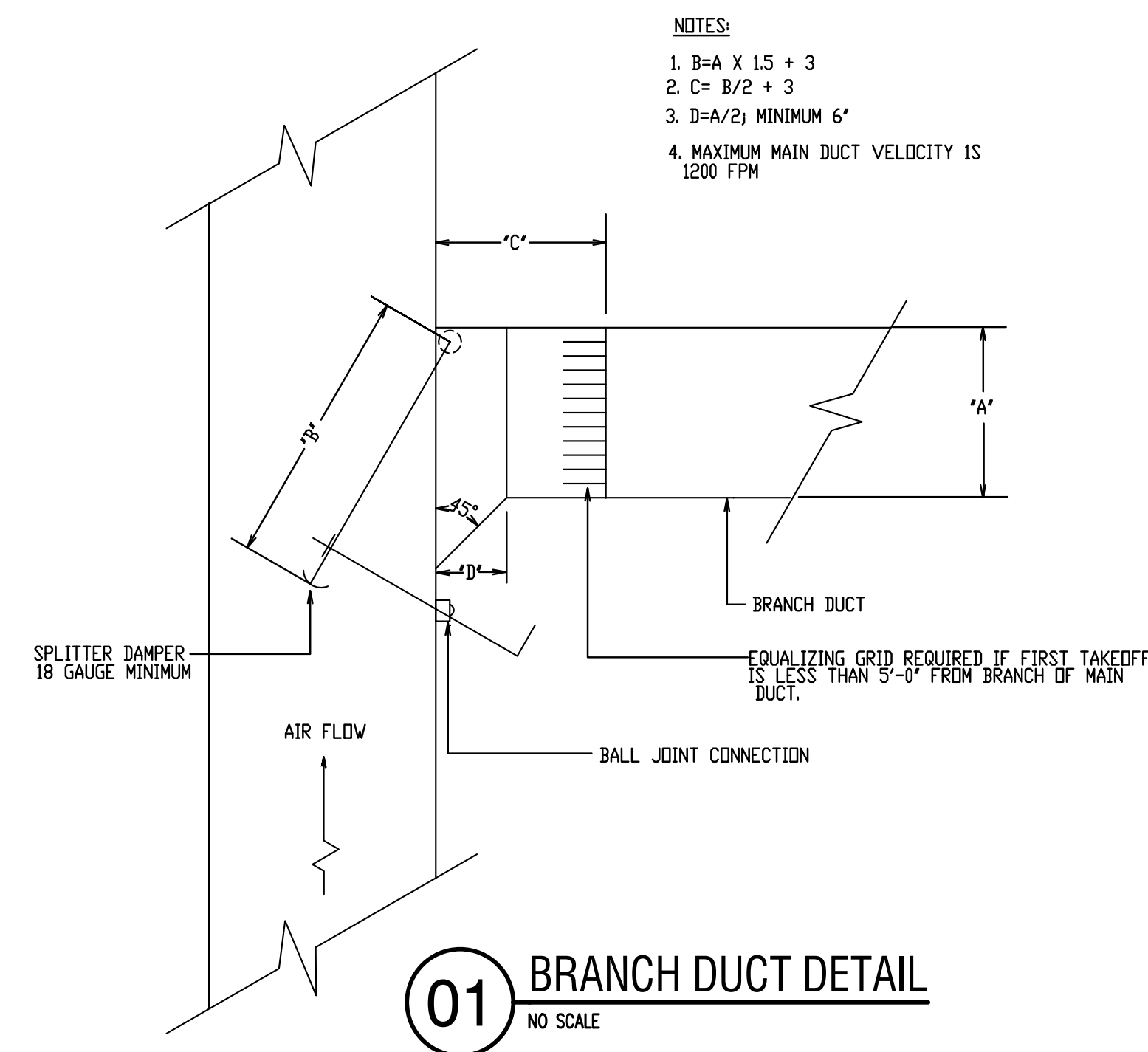


**07** RETURN/TRANSFER AIR GRILLE DETAIL  
NOT TO SCALE



**08** CEILING EXHAUST FAN DETAIL  
NOT TO SCALE





2023.04.28

## ISSUES

1	ISSUE FOR CONSTRUCTION	2023.04.28
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## REVISIONS



**I.E. BAXTER ES**  
**HVAC REPLACEMENT**  
MIDLOTHIAN I.S.D.  
1050 Park Pl Blvd, Midlothian, TX 76065

## DETAILS - MECHANICAL

OB NO.: 22146-00  
DRAWN BY: ND  
CHECKED BY: HV/NH

SHEET NO.

## M2.02



Drawing: 22146 - MIDLOTHIAN ISD BAXTER ES HVAC/DRAINING/LOADS/RETIERS/WORK/DWG. Rev. By: BAXTER MARRS. Plot Date: 4/28/2023 7:11 PM. Plot Scale: 1:1. Paper: STANDARD 30x42 IN.

ROOFTOP A/C UNIT SCHEDULE

GENERAL	DESIGNATION	RTU-KITCHEN	RTU-STAGE	RTU-CAFE-NW	RTU-CAFE-SW/ CAFE-SE/ CAFE-NE	RTU-WORKROOM	RTU-ART	RTU-GYM-NE/ GYM-NW GYM-SE GYM-SW	RTU-720	RTU-75N & 75S	RTU-79	RTU-MUSIC	RTU-LIB-N /LIB-E /LIB-W	RTU-LIB-S	RTU-84 & 85	RTU-86	RTU-100 /200 /400 /500	RTU-101/102/ 104/105 /106/201 /202/203 /206/207	RTU-103 /204/205	RTU-107	RTU-108	RTU-301/302/ 303/306 /307/308 /309	RTU-401/402/ 403/407 /408/409/501 /502/503/507 /508/509	RTU-300B	RTU-304	RTU-305	RTU-B119	RTU-404/405/ 505/506	RTU-406 & 504	RTU-C103	RTU-C106	RTU-A/V	
	SERVING	KITCHEN	STAGE	CAFETORIUM	CAFETORIUM	WORKROOM	ART	GYMNASIUM	GYM OFFICES	CORRIDORS	SPEC. ED.	MUSIC	LIBRARY	LIBRARY	CORRIDOR	CORRIDOR	CORRIDOR	CLASSROOMS	CLASSROOMS	E.S.L.	LAB	PRE-K, K/ KINDERG ARTEN/PPCO/CBI	CLASSROOMS	CORRIDOR	KINDERGARTEN & OFFICE	KINDERGARTEN & OFFICE	CORRIDORS	CLASSROOMS	CLASSROOMS	PRINCIPAL	CONF	A/V ROOM	
	MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE	TRANE
	MODEL NO.	YHJ090	YHC067	YHJ090	YHC067	YHC047	YHC047	YHC067	YHC037	YHC047	YHC047	YHC047	YHC047	YHC047	4YCZ5036	YHC037	YHC067	YHC037	YHC047	4YCZ5024	4YCZ5036	YHC047	YHC037	4YCZ5024	YHC047	YHC047	YHC047	YHC047	YHC037	YHC037	YHC067	YHJ090	4YCZ5024
	MAXIMUM WEIGHT, LBS.	1070	1000	1070	1000	980	980	1000	770	980	980	980	980	980	980	400	770	1000	770	980	370	400	980	770	370	980	980	980	770	770	1000	1070	370
NOMINAL CAPACITY	7.5	5	7.5	5	4	4	5	3	4	4	4	4	4	4	3	3	5	3	4	2	3	4	3	2	4	4	4	3	3	5	5.0	2.0	

SUPPLY FAN SECTION	SUPPLY AIR, CFM	3000	1750	2700	2000	1600	1400	1750	1100	1600	1400	1400	1400	1400	1200	1200	2000	1200	1400	800	1200	1400	1200	800	1400	1440	1400	1100	1150	2000	2000	800
MIN. MIN./MIN. MAX./MAX. OUTSIDE AIR, CFM	500/1000/ 3000	400/1750	300/900/2700	250/600/2000	200/1600	400/1400	250/500/1750	300/1100	140/1600	300/1400	380/1400	170/290/1400	170/1400	150/1200	150/1200	600/2000	400/1200	350/1400	150/800	250/1200	440/1400	350/1200	100/800	400/1400	450/1440	450/1400	400/1100	390/1150	350/2000	350/2000	150/800	
EXTERNAL STATIC PRESSURE, IN. W.G.	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
MAXIMUM FAN RPM	1190	910	1190	980	870	830	910	850	870	830	830	830	830	-	880	980	880	830	-	-	830	880	-	800	840	830	850	860	980	980	-	
MINIMUM MOTOR HP	3.0	1.0	3.0	1.0	1.0	1.0	1.0	0.75	1.0	1.0	1.0	1.0	1.0	0.75	0.75	1.0	0.75	1.0	0.5	0.5	1.0	0.75	0.5	1.0	1.0	1.0	0.75	0.75	0.75	0.75	0.5	
COOLING SECTION	COIL ENTERING AIR, DB/WB - F°	82.7/66.1	79.6/66.1	81.8/67.1	81.9/66.6	77.0/63.6	82.3/64.9	81.3/65.9	80.9/64.1	75.9/62.1	79.9/65.9	80.7/65.4	80.1/64.8	76.9/63.1	76.6/63.0	77.7/63.7	82.5/65.3	82.5/66.4	81.1/65.9	79.8/65.3	78.6/64.8	83.5/66.3	83.3/66.5	77.0/63.8	82.1/66.9	82.6/67.1	83.6/67.3	83.3/67.4	82.2/67.0	80.5/65.6	80.5/65.6	79.8/65.3
COIL L.A.T., D.B./W.B. - F°	58.0/57.0	57.0/56.0	59.0/58.0	59.0/58.0	56.0/55.0	56.0/55.0	57.0/56.0	56.0/55.0	55.0/54.0	57.0/56.0	57.0/56.0	57.0/56.0	55.0/54.0	56.0/55.0	56.0/55.0	57.0/56.0	58.0/57.0	58.0/57.0	57.0/56.0	57.0/56.0	57.0/56.0	58.0/57.0	57.0/56.0	57.0/56.0	57.0/56.0	58.0/57.0	57.0/56.0	57.0/56.0	57.5/56.5	57.5/56.5	57.0/56.0	
AMBIENT AIR, DB - F°	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
TOTAL CAPACITY,MBH	85.73	55.68	88.83	55.62	41.69	42.65	54.42	30.15	37.66	43.53	41.14	38.24	37.49	26.14	31.70	58.05	35.59	43.53	32.78	22.93	45.55	36.45	19.15	42.90	46.10	45.99	38.90	38.80	57.24	57.24	32.78	
SENSIBLE CAPACITY, MBH	80.66	42.94	74.35	49.83	36.44	39.96	46.14	29.78	36.27	34.84	36.11	35.16	33.26	24.59	28.24	55.39	31.93	36.6	28.21	19.87	40.27	33.04	17.35	33.00	36.10	38.94	29.60	29.90	50.04	50.04	28.21	
MAX. AIR P.D., IN. W.G.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
MAX. FACE VELOCITY, FPM	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
STAGES OF COOLING	3	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
SEER/FEER @ ARI CONDITIONS	16.6/12.1	17.2/13.0	16.6/12.1	17.2/13.0	17.5/13.0	17.5/13.0	17.2/13.0	17.5/13.0	17.5/13.0	17.5/13.0	17.5/13.0	17.5/13.0	17.5/13.0	17.5/13.0	15.0/11.0	17.5/13.0	17.5/13.0	17.5/13.0	17.5/13.0	15.0/11.0	15.0/11.0	17.5/13.0	17.5/13.0	15.0/11.0	17.5 / 13.0	17.5 / 13.0	17.5/13.0	17.5/13.0	17.5/13.0	17.2/13.0	17.2/13.0	15.0/11.0
HEATING SECTION	ENTERING AIR DB - F°	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
DESIGN LEAVING AIR DB - F°	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	
TYPE OF HEAT	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS
HEATING INPUT, MBTUH	150.0/105.0	80.0	150.0/105.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	56.0/70.0	60.0	80	60.0	80.0	48.0/60.0	56.0/70.0	80.0	60.0	48.0/60.0	80.0	80.0	60.0	60.0	80	150	48.0/60.0	
HEATING OUTPUT, MBTUH	121.5/85.0	64.0	121.5/85.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	45.0/56.0	48.0	64	48.0	64.0	38.0/48.0	45.0/56.0	64.0	48.0	38.0/48.0	64.0	64.0	48.0	48.0	64	121.5	38.0/48.0	
STAGES OF CONTROL	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	2	1	1	1	1	1	1	2	
MINIMUM AFUE EFF. %	81%	80%	81%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	80%	81%	81%	80%	80%	81%	80%	80%	80%	80%	80%	80%	80%	81%
ELECT. CHAR.	VOLTS/PHASE	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	460/3	208/1	460/3	460/3	460/3	460/3	460/3	208/1	208/1	460/3	460/3	208/1	460/3	460/3	460/3	460/3	460/3	460/3	208/1
MIN. CIRCUIT AMPS REQUIRED	21.0	15.0	21.0	15.0	14.0	14.0	15.0	12.0	14.0	14.0	14.0	14.0	14.0	22.9	12.0	15.0	12.0	14.0	19.5	22.9	14.0	12.0	19.5	14.0	14.0	14.0	12.0	12.0	15.0	15.0	19.5	
MAX. OVERCURRENT PROTECTION-AMPS	25.0	20.0	25.0	20.0	20.0	20.0	20.0	15.0	20.0	20.0	20.0	20.0	20.0	20.0	35.0	15.0	20.0	15.0	20.0	30.0	35.0	20.0	15.0	30.0	20.0	20.0	20.0	15.0	15.0	20.0	20.0	30.0
FILTER SECTION	THICKNESS/DEPTH - TYPE	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED	2" - PLEATED
MAX. A.P.D. CLEAN, IN. W.G.	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
MANUFACTURER/MODEL NO.	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	CAMFILL FARR AP-THIRTEEN	
REMARKS	1-5,8-12	1-6,8,10,11	1-5,8-12	1-5,10-12 8 (RTU-CAFE-SE)	1-6,8,10,11	1-6,8,10,11	1-8,10,11	1-6,10,11	1-6,8																							

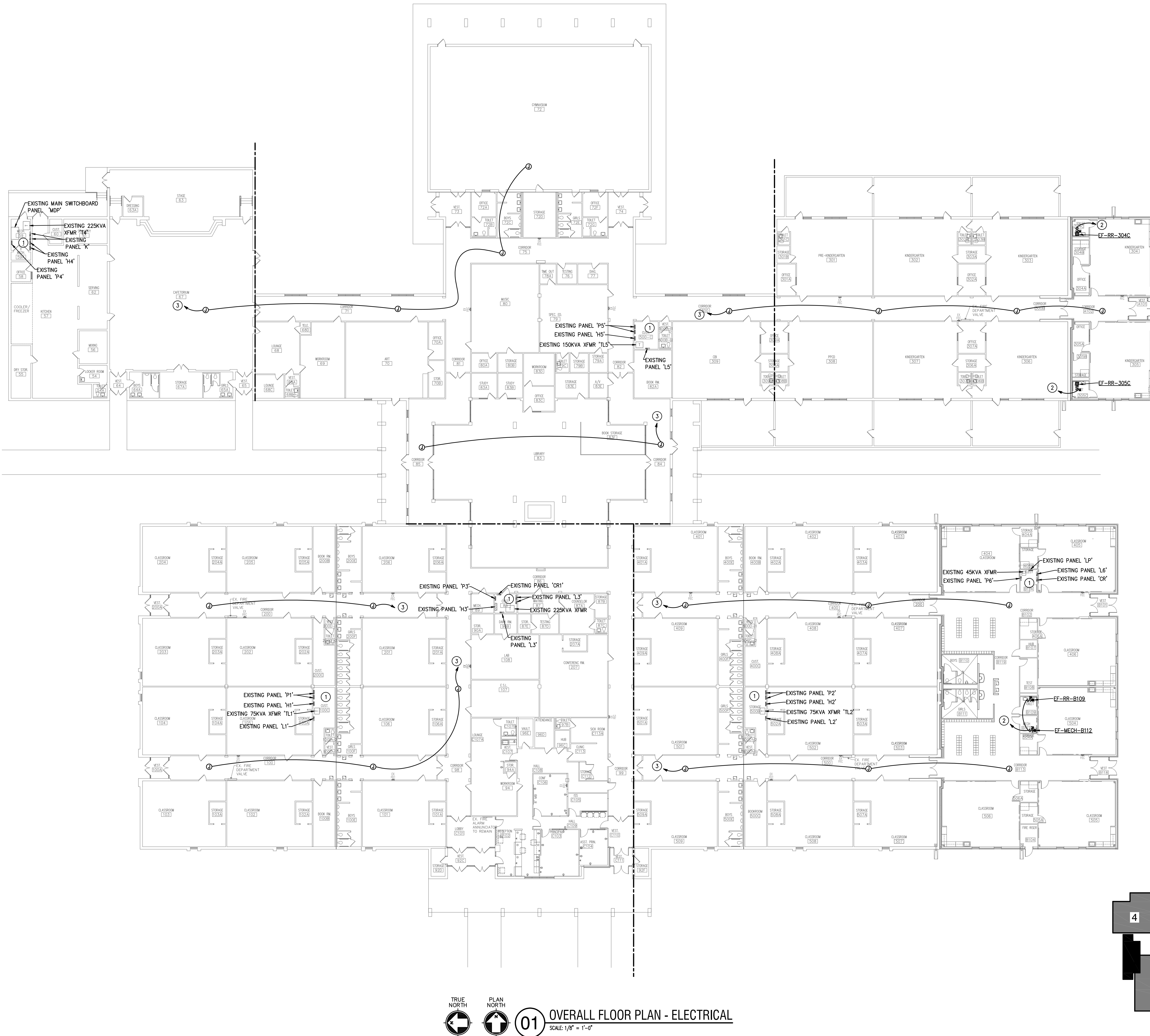
1. PROVIDE MANUFACTURER FURNISHED, UNIT MOUNTED, NON-FUSED DISCONNECT SWITCH.  
2. PROVIDE ECONOMIZER WITH BAROMETRIC RELIEF DAMPERS OR POWERED EXHAUST. REFER TO SPECIFICATIONS.  
3. PROVIDE UNIT WITH HOT GAS REHEAT OPTION.  
4. MATCH EQUIPMENT NAME TAGS WITH OWNER'S PERMANENT ROOM NUMBERS.  
5. PROVIDE ALL UNITS WITH MULTI-SPEED FANS.  
6. TWO OUTSIDE AIR VALUES ARE FOR MINIMUM AND ECONOMIZER  
7. THREE (3) OUTSIDE AIR VALUES ARE FOR CARBON DIOXIDE CONTROL OF OUTSIDE AIR.  
8. PROVIDE MANUFACTURER FURNISHED NON-POWERED SERVICE OUTLET ON UNIT.  
9. PROVIDE RETURN AIR MOUNTED SMOKE DUCT DETECTOR FOR UNIT. COORDINATE WITH FIRE ALARM CONTRACTOR.  
10. PROVIDE MANUFACTURER FURNISHED OVERFLOW PROTECTION SWITCH IN DRAIN PAN OF UNIT WITH DRY CONTACTS AND SHALL BE WIRED BY CONTROLS CONTRACTOR.  
11. IF UNIT INCLUDES VFD TO MODULATE SUPPLY AIR FAN TO MATCH THE LOAD, MANUFACTURER TO PROVIDE AND LEAVE VFD COVER FACE TO ALLOW FOR FUTURE ADJUSTMENTS AS NEEDED.  
12. THREE OUTSIDE AIR VALUES ARE FOR KITCHEN HOOD MAKE-UP AIR.

FAN SCHEDULE

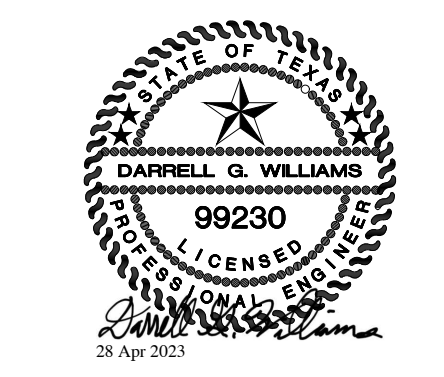
DESIGNATION	EF-RR-100E/100F/ 200E/200F/400E/400 F/500E/500F	EF-CUST-100C/ 200C/400C/STOR-5 00B	EF-DARK-90B	EF-CUST-88/ LOUNGE-68C/ RR-64A/ RR-65A	EF-ART	EF-CUST-500-C	EF-RR-72B & 72G	EF-RR-72C & 72E	EF-CUST-60	EF-RR-301C/302B/ 303B/308B/307B/ 308B/308B/ 500-B-2/54A/68B /79C/87C/97B/ C107B	EF-RR-B111	EF-MECH-B112	EF-RR-B109/304C/ 305C	KEF-KITCHEN	SF-KIT
AIR SYSTEM	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	KITCHEN EXHAUST	MAKE-UP
SERVES	TOILETS	CUST./STORAGE	DARK RM.	CUST./LOUNGE/ TOILETS	ART	CUST.	TOILETS	TOILETS	TOILETS/CUST.	TOILETS	TOILETS	MECH	TOILETS	KITCHEN HOOD	KITCHEN HOOD
MOUNTING	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	CEILING	CEILING	ROOF	ROOF
TYPE	DOWNBLAST	DOWNBLAST	DOWNBLAST	DOWNBLAST	DOWNBLAST	DOWNBLAST	UPBLAST	UPBLAST	DOWNBLAST	DOWNBLAST	DOWNBLAST	INLINE	INLINE	UPBLAST	CENTRIFUGAL
CAPACITY, CFM	450	275	125	150	750	110	100	275	50	75	600	50	75	3780	1500
EXT. SP. IN. W.G.	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.50	0.125	0.125	1.000	0.750
DRIVE TYPE	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	DIRECT	DIRECT	BELT	BELT
MIN. WHEEL DIA. IN.	12	13.5	12	13.5	12	12	12	13.5	12	12	13.5	-	-	30	10
FAN RPM	900	1050	980	930	930	940	920	820	790	830	1170	560	720	940	920
MIN MOTOR H.P.	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	21.2 WATTS	27.4 WATTS	1-1/2	1/2
VOLTS/PHASE	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	277/1	277/1	208/3	120/1
MFG./MODEL NO.	COOK 120 ACEB OR91	COOK 135 ACEB OR70	COOK 120 ACEB OR60	COOK 135 ACEB OR60	COOK 120 ACEB OR92	COOK 120 ACEB OR60	COOK 120 ACEB OR60	COOK 135 ACEB OR60	COOK 120 ACEB OR60	COOK 120 ACEB OR60	COOK 135 ACEB OR91	COOK GC-146	COOK GC-146	COOK 300 VCR-XP	COOK KSP-B 100KSP-B
CONTROLS	EMS	WALL SWITCH	WALL SWITCH	WALL SWITCH	EMS	WALL SWITCH	WALL SWITCH	WALL SWITCH	WALL SWITCH	WALL SWITCH	EMS	WALL SWITCH	WALL SWITCH	HOOD FMS/ INFRARED SENSOR	HOOD/KEF-KITCHEN
COMMENTS														SELECT AT 300 DEG. F	



Drawing: 1/24/18 - MIDLOTHIAN I&S BAXTER ES HVAC/DRAINAGE/LOAD/MECHANICAL/EL/PLUMBING, Proj. Date: 4/28/2023, 4:03 PM, Proj. Scale: 1/8" = 1'-0", Paper Size: 30" x 36" x 6" N



- NOTES BY SYMBOL 'O':
- EXISTING ELECTRICAL PANELS AND TRANSFORMERS TO REMAIN.
  - RECONNECT NEW EXHAUST FANS TO EXISTING CIRCUIT AND CONTROLS. COORDINATE REQUIREMENTS WITH DIVISION 23.
  - JUNCTION BOX(ES) MOUNTED ABOVE CEILING FOR 120V POWER TO CARBON MONOXIDE DETECTORS IN THE RESPECTIVE AREA. REFER TO MECHANICAL PLANS FOR LOCATION OF CARBON MONOXIDE SENSORS. PROVIDE #12, 1#12, 3/4" C, MINIMUM TO A SPARE 120V, 20A/1P CIRCUIT BREAKER IN THE NEAREST EXISTING 120/208V BRANCH CIRCUIT PANELBOARD. PROVIDE NEW CIRCUIT BREAKER IN EXISTING AVAILABLE PANELBOARD SPACE, IF NO SPARE BREAKER IS AVAILABLE. MAXIMUM OF 35 DETECTORS PER 120V CIRCUIT. CIRCUIT(S) FOR CARBON MONOXIDE SENSORS SHALL BE DEDICATED FOR THAT USE ONLY. UPDATE PANEL LABEL CARD AND ASSOCIATED PANEL AND LABEL WITH "CARBON MONOXIDE SENSOR".



2023.04.28

ISSUES  
01 ISSUE FOR CONSTRUCTION 2023.04.28

REVISIONS



T.E. BAXTER ES  
HVAC REPLACEMENT  
MIDLOTHIAN I.S.D.  
1050 Park Pl Blvd, Midlothian, TX 76065

OVERALL FLOOR PLAN  
- ELECTRICAL

JOB NO.: 22076-00  
DRAWN BY: CA  
CHECKED BY: JW

SHEET NO.

E1.01



PANELBOARD: P1 - SECTION 1 (EXISTING)							
L-L VOLTAGE: 480 VOLTS L-N VOLTAGE: 277 VOLTS CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 600A MLO MOUNTING: SURFACE AIC RATING: EXISTING	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
	1	RTU-104	EXISTING WIRE & CONDUIT	15A/3P			3324 A
	3						3324 B
	5						3324 C
	7	RTU-100	EXISTING WIRE & CONDUIT	20A/3P			4155 A
	9						4155 B
	11						4155 C
	13	RTU-101	EXISTING WIRE & CONDUIT	15A/3P			3324 A
	15						3324 B
	17						3324 C
	19	RTU-102	EXISTING WIRE & CONDUIT	15A/3P			3324 A
	21						3324 B
	23						3324 C
	25	RTU-103	EXISTING WIRE & CONDUIT	20A/3P			3878 A
	27						3878 B
	29						3878 C
							A
							B
							C
							A
							B
							C
	2	RTU-204	EXISTING WIRE & CONDUIT	20A/3P			3878 A
	4						3878 B
	6						3878 C
	8	RTU-200	EXISTING WIRE & CONDUIT	20A/3P			4155 A
	10						4155 B
	12						4155 C
	14	RTU-201	EXISTING WIRE & CONDUIT	20A/3P			3324 A
	16						3324 B
	18						3324 C
	20	RTU-202	EXISTING WIRE & CONDUIT	15A/3P			3324 A
	22						3324 B
	24						3324 C
	26	RTU-203	EXISTING WIRE & CONDUIT	15A/3P			3324 A
	28						3324 B
	30						3324 C
							A
							B
							C
							A
							B
							C
GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12, #12G, 3/4" C UNLESS OTHERWISE NOTED. 2. PROVIDE FEED THRU LUGS			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				13850 A
			TOTALS PER TYPE (KVA):				149.58 B
			LOADS PER PHASE:	49.9 KVA	180.0 Amps		A
				49.9 KVA	180.0 Amps		B
				49.9 KVA	180.0 Amps		C
			PANEL TOTALS	149.6 KVA	180.0 AMPS		

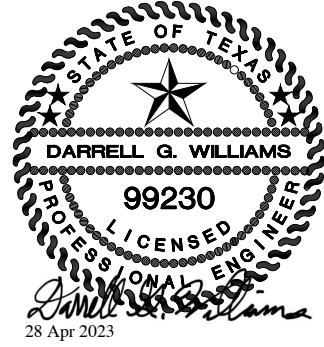
PANELBOARD: P1 - SECTION 2 (EXISTING)							
L-L VOLTAGE: 480 VOLTS L-N VOLTAGE: 277 VOLTS CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 600A MLO MOUNTING: SURFACE AIC RATING: EXISTING	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
	31	SPACE					A
	33						B
	35						C
	37	RTU-406	EXISTING WIRE & CONDUIT	15A/3P			3324 A
	39						3324 B
	41						3324 C
	43	RTU-407	EXISTING WIRE & CONDUIT	15A/3P			3324 A
	45						3324 B
	47						3324 C
	49		EXISTING WIRE & CONDUIT	15A/3P			3324 A
	51						3324 B
	53						3324 C
	55	RTU-105	EXISTING WIRE & CONDUIT	15A/3P			3324 A
	57						3324 B
	59						3324 C
							A
							B
							C
							A
							B
							C
	32	SPACE					A
	34						B
	36						C
	38		EXISTING WIRE & CONDUIT	15A/3P			3324 A
	40						3324 B
	42						3324 C
	44	RTU-402	EXISTING WIRE & CONDUIT	15A/3P			3324 A
	46						3324 B
	48						3324 C
	50	RTU-206	EXISTING WIRE & CONDUIT	15A/3P			3324 A
	52						3324 B
	54						3324 C
	56	RTU-205	EXISTING WIRE & CONDUIT	20A/3P			3878 A
	58						3878 B
	60						3878 C
							A
							B
							C
							A
							B
							C
GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12, #12G, 3/4" C UNLESS OTHERWISE NOTED. 2. PROVIDE FEED THRU LUGS			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				A
			TOTALS PER TYPE (KVA):				41.55 B
			LOADS PER PHASE:	13.9 KVA	50.0 Amps		A
				13.9 KVA	50.0 Amps		B
				13.9 KVA	50.0 Amps		C
			PANEL TOTALS	41.6 KVA	50.0 AMPS		

PANELBOARD: L1 SECT 1 (EXISTING)								
L-L VOLTAGE: 208 VOLTS L-N VOLTAGE: 120 VOLTS CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 400A MCB MOUNTING: SURFACE AIC RATING: 10,000 AMPS	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A	
	1	ROOF RECEPTACLES	2#12,1#12G-3/4"C.	20A/1P		1440	A	
	3	SPACE					B	
	5	SPACE					C	
	7	SPACE	EXISTING				B	
	9	EF-BR-100B & EF-RR-100F		20A/1P			A	
	11	EXISTING EWC		20A/1P			B	
	13	EXISTING EWC		20A/1P			C	
	15	SPACE					A	
	17	EXISTING RECEPTACLES		20A/1P			C	
	19	EXISTING RECEPTACLES		20A/1P			C	
	21	EXISTING RECEPTACLES		20A/1P			B	
	23	EXISTING RECEPTACLES		20A/1P			C	
	25	EXISTING RECEPTACLES		20A/1P			C	
	27	EXISTING RECEPTACLES		20A/1P			A	
	29	EXISTING RECEPTS & EF-CUST-200C	EXISTING	20A/1P		10080	528	C
	31	EXISTING RECEPTS		20A/1P				A
	33	EXISTING RECEPTACLES		20A/1P				B
	35	EXISTING LOAD		20A/1P				C
	37	EXISTING EXIT LIGHTS		20A/1P				A
	39	RTU-107	2#10,1#10G-3/4"C.	30A/2P				2184
	41							2184
	2	ROOF RECEPTACLES			20A/1P			A
	4	SPACE						B
	6	SPACE						C
	8	SPACE						A
	10	EXISTING EWC			20A/1P			B
	12	EF-RR-200F & EF-RR-200E			20A/1P			A
	14	EXISTING EWC			20A/1P			1056
	16	SPACE						B
	18	SPACE						C
	20	EXISTING RECEPTACLES			20A/1P			A
	22	EXISTING RECEPTACLES			20A/1P			B
	24	EXISTING RECEPTACLES			20A/1P			C
	26	EXISTING RECEPTACLES			20A/1P			A
	28	EXISTING RECEPTACLES			20A/1P			B
	30	EXISTING RECEPTACLES			20A/1P			C
	32	EXISTING RECEPTACLES			20A/1P			A
	34	EXISTING RECEPTACLES			20A/1P			B
	36	EXISTING RECEPTACLES			20A/1P			C
	38	EXISTING RECEPTACLES			20A/1P			A
	40	RTU-108	2#10,1#10G-3/4"C.	15A/2P				1248
	42							1248
GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12, #12G, 3/4"C UNLESS OTHERWISE NOTED. 2. PROVIDE FEED THRU LUGS			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				A	
			TOTALS PER TYPE (kVA):			11.52	9.50	
			LOADS PER PHASE:	2.5 kVA		20.8 Amps	A	
				3.4 kVA		28.6 Amps	B	
				15.1 kVA		125.8 Amps	C	
			PANEL TOTALS	21.0 kVA		58.4 AMPS		

PER NEC 408.4 (A), IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY UNDER THIS CONTRACT TO IDENTIFY ALL BRANCH CIRCUITS, BOTH EXISTING AND NEW, FED FROM EACH PANEL OR DISTRIBUTION BOARD INDICATED ON THESE PLANS. THIS CONTRACTOR SHALL ALSO PROVIDE AN UPDATED, TYPEWRITTEN SCHEDULE WITHIN THE PANEL DOOR OR ON THE DISTRIBUTION BOARD AS DESCRIBED & REQUIRED BY THE CODE.

PANELBOARD: P2 - SECTION 1 (EXISTING)									
L-L VOLTAGE: 480 VOLTS L-N VOLTAGE: 277 VOLTS CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 600A MLO MOUNTING: SURFACE AIC RATING: EXISTING	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A		
	1	RTU-509	EXISTING WIRE & CONDUIT	15A/3P			3324	A	
	3						3324	B	
	5						3324	C	
	7	RTU-500	EXISTING WIRE & CONDUIT	20A/3P			4155	A	
	9						4155	B	
	11						4155	C	
	13	RTU-508	EXISTING WIRE & CONDUIT	15A/3P			3324	A	
	15						3324	B	
	17						3324	C	
	19	RTU-507	EXISTING WIRE & CONDUIT	15A/3P			3324	A	
	21						3324	B	
	23						3324	C	
	25	RTU-503	EXISTING WIRE & CONDUIT	15A/3P			3324	A	
	27						3324	B	
	29						3324	C	
								A	
								B	
								C	
								A	
								B	
								C	
		2	RTU-502	EXISTING WIRE & CONDUIT	15A/3P			3324	A
		4						3324	B
		6						3324	C
		8	RTU-501	EXISTING WIRE & CONDUIT	15A/3P			3324	A
		10						3324	B
		12						3324	C
		14	RTU-409	EXISTING WIRE & CONDUIT	15A/3P			3324	A
		16						3324	B
		18						3324	C
	20	RTU-400	EXISTING WIRE & CONDUIT	20A/3P			4155	A	
	22						4155	B	
	24						4155	C	
	26	RTU-401	EXISTING WIRE & CONDUIT	15A/3P			3324	A	
	28						3324	B	
	30						3324	C	
							A		
							B		
							C		
							A		
							B		
							C		
GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12, #12G, 3/4" C UNLESS OTHERWISE NOTED. 2. PROVIDE FEED THRU LUGS			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				13296	A	
							13296	B	
							13296	C	
			TOTALS PER TYPE (KVA):				144.59		
			LOADS PER PHASE:			48.2 kVA	174.0 Amps	A	
						48.2 kVA	174.0 Amps	B	
						48.2 kVA	174.0 Amps	C	
			PANEL TOTALS			144.6 KVA	174.0 AMPS		





ISSUES		
01	ISSUE FOR CONSTRUCTION	2023.04.28

[illegible]

## REVISIONS

[illegible]

**T.E. BAXTER ES**  
**HVAC REPLACEMENT**  
MIDLOTHIAN I.S.D.  
1050 Park Pl Blvd, Midlothian, TX 76065

## PANEL SCHEDULES

JOB NO.: 22076-00  
DRAWN BY: CA  
CHECKED BY: JM

SHEET NO.

## E2.02

[illegible]

PER NEC 408.4 (A), IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY UNDER THIS CONTRACT TO IDENTIFY ALL BRANCH CIRCUITS, BOTH EXISTING AND NEW, FED FROM EACH PANEL OR DISTRIBUTION BOARD INDICATED ON THESE PLANS. THIS CONTRACTOR SHALL ALSO PROVIDE AN UPDATED, TYPEWRITTEN SCHEDULE WITHIN THE PANEL DOOR OR ON THE DISTRIBUTION BOARD AS DESCRIBED & REQUIRED BY THE CODE.

PANELBOARD: L3A (EXISTING)							
L-L VOLTAGE: 208 VOLTS	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
L-N VOLTAGE: 120 VOLTS	1	EXISTING RECEPTACLES		20A/1P			A
CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND	3	EXISTING REFRIGERATOR		20A/1P			B
	5	EXISTING FA POWER SUPPLY		20A/1P			C
	7	EXISTING WATER HEATER		20A/1P			A
	9	EXISTING LOAD		20A/1P			B
	11	SPACE					
	13	EXISTING LOAD		20A/1P			A
	15	RTU-VAV	2#10,1#10G-3/4"C.	30A/2P			2028
	17						2028
	19	SPACE					A
	21	SPACE					B
MAINS: 60A MLO	23	SPACE					C
MOUNTING: #VALUE1							A
AIC RATING: EXISTING							B
							C
							A
							B
							C
							A
							B
							C
							A
							B
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							B
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							A
							B
							C
GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12, 1#12G, 3/4"C. UNLESS OTHERWISE NOTED. 2. ALL ONE POLE CIRCUITS SHALL HAVE DEDICATED NEUTRAL WIRES.							A
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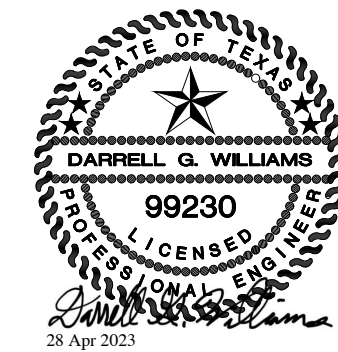
Drawing: V22146 - MIDLOTHIAN IS2 BAXTER ES HVAC/DRAINAGE/LOAD SUMMARY/LOADING, Plot Date: 4/29/2023 2:50 PM, Plot Scale: 1:1, Paper Size: 30" x 30" (42" x 30" IN)

PANELBOARD: P4 (EXISTING)						
L-L VOLTAGE: 480 VOLTS	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT
L-N VOLTAGE: 277 VOLTS CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 400A MCB MOUNTING: SURFACE AIC RATING: EXISTING	1		EXISTING WIRE & CONDUIT	20A/3P		
	3	RTU-STAGE				
	5		EXISTING WIRE & CONDUIT	20A/3P		
	7	RTU-CAFÉ-SW				
	9		EXISTING WIRE & CONDUIT	25A/3P		
	11	RTU-CAFÉ-NW				
	13		EXISTING WIRE & CONDUIT	15A/3P		
	15	EF-KITCHEN	3#12,1#12G-3/4"C.			
	17					
	19					
	21					
	23					
	25	SPACE				
	27	SPACE				
	29	SPACE				
	2	RTU-CAFÉ-SE	EXISTING WIRE & CONDUIT	20A/3P		
	4					
	6		EXISTING WIRE & CONDUIT	20A/3P		
	8	RTU-CAFÉ-NE				
	10		EXISTING WIRE & CONDUIT	30A/3P		
	12					
	14	RTU-KITCHEN				
	16					
	18	SPACE				
	20	SPACE				
	22	SPACE				
	24	SPACE				
	26	SPACE				
	28	SPACE				
	30	SPACE				
GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12, #12G, 3/4"C UNLESS OTHERWISE NOTED. 2. PROVIDE FEED THRU LUGS			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY			
			TOTALS PER TYPE (KVA):			87.26
			LOADS PER PHASE:		29.1 kVA 29.1 kVA 29.1 kVA	105.0 Amps 105.0 Amps 105.0 Amps
			PANEL TOTALS		87.3 KVA	105.0 AMPS

PANELBOARD: K SECT 1 (EXISTING)							
L-L VOLTAGE: 208 VOLTS	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
L-N VOLTAGE: 120 VOLTS CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 600A MLO MOUNTING: SURFACE AIC RATING: EXISTING	1	EXISTING LOAD		100A/2P			A
	3						B
	5	EXISTING LOAD		20A/1P			C
	7						A
	9	EXISTING LOAD		15A/3P			B
	11			-			C
	13			-		828	A
	15	EF-KITCHEN	EXISTING WIRE & CON	15A/3P		828	B
	17			-		828	C
	19			-			A
	21	EXISTING LOAD		100A/3P			B
	23			-			C
	25			-			A
	27	EXISTING LOAD		40A/3P			B
	29			-			C
	31	EXISTING LOAD		20A/1P			A
	33	EXISTING LOAD		20A/1P			B
	35	EXISTING LOAD		20A/1P			C
	37						A
	39	EXISTING LOAD		60A/3P			B
	41						A
	43						A
	45	EXISTING LOAD		90A/3P			C
	47						A
	2	EXISTING LOAD		20A/1P			B
	4	EXISTING LOAD		25A/2P			C
	6						A
	8						B
	10	EXISTING LOAD		40A/3P			C
	12						A
	14	EXISTING LOAD		20A/1P			B
	16	EXISTING LOAD		60A/2P			C
	18						A
	20						B
	22	EXISTING LOAD		40A/3P			C
	24						A
	26	EXISTING LOAD		20A/1P			B
	28	EXISTING LOAD		20A/1P			C
	30	EXISTING LOAD		20A/1P			A
	32						B
	34	EXISTING LOAD		20A/3P			C
	36						A
	38	EXISTING LOAD		20A/1P			B
	40						C
	42						A
	44						B
	46						C
	48						A
1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12, 1#12G, 3/4"C. UNLESS OTHERWISE NOTED. 2. ALL ONE POLE CIRCUITS SHALL HAVE DEDICATED NEUTRAL WIRES.			CONNECTED LOAD SUMMARY		360	528	
			TOTALS PER TYPE (KVA):		#REF!	#REF!	#REF!
			LOADS PER PHASE:		3.1 kVA #REF! kVA #REF! kVA	25.5 Amps #REF! Amps #REF! Amps	A B C
			PANEL TOTALS		#REF! KVA	#REF! AMPS	

PANELBOARD: K SECT 2 (EXISTING)							
L-L VOLTAGE: 208 VOLTS	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
L-N VOLTAGE: 120 VOLTS CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 600A MLO MOUNTING: SURFACE AIC RATING: EXISTING GEN. NOTES	49	EXISTING LOAD		50A/2P			A
	51						B
	53	EXISTING LOAD		20A/1P			C
	55	EXISTING LOAD		20A/1P			A
	57	EXISTING LOAD		20A/1P			B
	59	EXISTING LOAD		20A/1P			C
	61	EXISTING LOAD		20A/1P			A
	63	EXISTING LOAD		20A/1P			B
	65	EXISTING LOAD		20A/1P			C
	67	EF-RR-64A & EF-RR-65A	EXISTING WIRE & CON	20A/1P			1056
	69	EXISTING LOAD		20A/1P			A
	71	EXISTING LOAD		20A/2P			B
	73	EXISTING LOAD		20A/1P			C
	75	EXISTING LOAD		40A/1P			A
	77	EXISTING LOAD		20A/1P			B
	79	EXISTING LOAD		50A/2P			C
	81						A
	83	EXISTING LOAD		25A/2P			B
	85						C
	87						A
	89	EXISTING LOAD		30A/3P			B
	91						C
	50	SF-KIT	EXISTING WIRE & CON	20A/1P			1176
	52	EXISTING LOAD		20A/1P			A
	54	EXISTING LOAD		20A/1P			B
	56	EXISTING LOAD		20A/1P			C
	58	EXISTING LOAD		20A/1P			A
	60	EXISTING LOAD		20A/1P			B
	62	EXISTING LOAD		20A/1P			C
	64	EXISTING LOAD		20A/1P			A
	66	EXISTING LOAD		20A/1P			B
	68	EXISTING LOAD		20A/1P			C
	70	EXISTING LOAD		20A/1P			A
	72	EXISTING RECEPTS & EF	EXISTING WIRE & CON	20A/1P		360	528
	74	EXISTING LOAD		20A/1P			A
	76	EXISTING LOAD		20A/1P			B
	78	EXISTING LOAD		20A/1P			C
	80	EXISTING LOAD		20A/1P			A
	82	EXISTING LOAD		20A/1P			B
	84	EXISTING LOAD		20A/2P			C
	86						A
	88						B
	92						C
			SUB-FEED PANELBOARD -				
			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				
			TOTALS PER TYPE (KVA):			0.36	2.76
			LOADS PER PHASE:		2.2 kVA 0.9 kVA	18.6 Amps 7.4 Amps	A B C
			PANEL TOTALS		3.1 KVA	8.7 AMPS	

PER NEC 408.4 (A), IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY UNDER THIS CONTRACT TO IDENTIFY ALL BRANCH CIRCUITS, BOTH EXISTING AND NEW, FED FROM EACH PANEL OR DISTRIBUTION BOARD INDICATED ON THESE PLANS. THIS CONTRACTOR SHALL ALSO PROVIDE AN UPDATED, TYPEWRITTEN SCHEDULE WITHIN THE PANEL DOOR OR ON THE DISTRIBUTION BOARD AS DESCRIBED & REQUIRED BY THE CODE.



2023.04.28

ISSUES

01 ISSUE FOR CONSTRUCTION 2023.04.28

REVISIONS



**T.E. BAXTER ES**  
**HVAC REPLACEMENT**  
MIDLOTHIAN I.S.D.  
1050 Park Pl Blvd, Midlothian, TX 76065

PANEL SCHEDULES

JOB NO.: 22076-00  
DRAWN BY: CA  
CHECKED BY: JW

SHEET NO.

E2.03



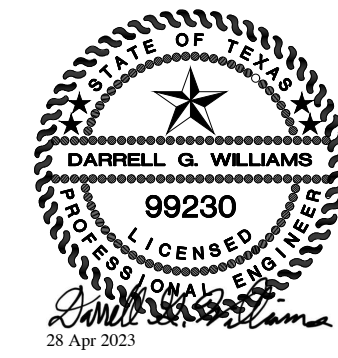
PANELBOARD: P5 - SECTION 1 (EXISTING)							
L-L VOLTAGE: 480 VOLTS	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
L-N VOLTAGE: 277 VOLTS	3	RTU-MUSIC	EXISTING WIRE & CONDUIT	20A/3P			3878 A 3878 B 3878 C
CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND	7	RTU-72N	EXISTING WIRE & CONDUIT	20A/3P			3878 A 3878 B 3878 C 3324 A 3324 B 3324 C
MAINS: 600A MLO	15	RTU-72D	EXISTING WIRE & CONDUIT	15A/3P			3324 A 3324 B 3324 C 4155 A 4155 B 4155 C
MOUNTING: SURFACE	21	RTU-GYM-NW	EXISTING WIRE & CONDUIT	20A/3P			4155 A 4155 B 4155 C
AIC RATING: EXISTING	23						A B C A B C A B C
	2	RTU-79	EXISTING WIRE & CONDUIT	20A/3P			3878 A 3878 B 3878 C
	4						3878 A
	6						3878 B
	8	RTU-72S	EXISTING WIRE & CONDUIT	20A/3P			3878 A 3878 B 3878 C
	10						4155 A
	12	RTU-GYM-SW	EXISTING WIRE & CONDUIT	20A/3P			4155 B 4155 C
	14						4155 A
	16	RTU-GYM-SE	EXISTING WIRE & CONDUIT	20A/3P			4155 B 4155 C
	18						A B C
	20						A B C
	22						A B C
	24						A B C
GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12,#12G,3/4"C UNLESS OTHERWISE NOTED. 2. PROVIDE FEED THRU LUGS			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				39057 A 39057 B 39057 C
			TOTALS PER TYPE (kVA):				211.07
			LOADS PER PHASE:	70.4 kVA 70.4 kVA 70.4 kVA	254.0 Amps 254.0 Amps 254.0 Amps		A B C
			PANEL TOTALS	211.1 KVA	254.0 AMPS		

PANELBOARD: P5 - SECTION 2 (EXISTING)							
L-L VOLTAGE: 480 VOLTS	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
L-N VOLTAGE: 277 VOLTS	25	RTU-GYM-NE	EXISTING WIRE & CONDUIT	20A/3P			4155 A 4155 B 4155 C
CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND	27						3878 A 3878 B 3878 C
MAINS: 600A MLO	31	RTU-308	EXISTING WIRE & CONDUIT	20A/3P			3878 A 3878 B 3878 C 3878 A 3878 B 3878 C
MOUNTING: SURFACE	33	RTU-307	EXISTING WIRE & CONDUIT	20A/3P			3878 A 3878 B 3878 C
AIC RATING: EXISTING	35						3878 A 3878 B 3878 C
	37	RTU-306	EXISTING WIRE & CONDUIT	20A/3P			3878 A 3878 B 3878 C
	39						7756 A 7756 B 7756 C
	41	RTU-304 & RTU-305	3#8,1#10G-3/4"C.	40A/3P			A B C A B C A B C
	43						A B C
	45						A B C
	47						A B C
	49						A B C
	51						A B C
	53						A B C
	26	RTU-309	EXISTING WIRE & CONDUIT	20A/3P			3878 A 3878 B 3878 C
	28						3878 A
	30						3878 B
	32	RTU-301	EXISTING WIRE & CONDUIT	20A/3P			3878 A 3878 B 3878 C
	34						3878 A
	36	RTU-302	EXISTING WIRE & CONDUIT	20A/3P			3878 A 3878 B 3878 C
	38						3878 A
	40	RTU-303	EXISTING WIRE & CONDUIT	20A/3P			3878 A 3878 B 3878 C
	42						A B C
	44						A B C
	46	EXISTING LOAD		20A/3P			A B C
	48						A B C
	50						A B C
	52						A B C
	54						A B C
GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12,#12G,3/4"C UNLESS OTHERWISE NOTED. 2. PROVIDE FEED THRU LUGS			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				117.17
			TOTALS PER TYPE (kVA):				117.17
			LOADS PER PHASE:	39.1 kVA 39.1 kVA 39.1 kVA	141.0 Amps 141.0 Amps 141.0 Amps		A B C
			PANEL TOTALS	117.2 KVA	141.0 AMPS		

PANELBOARD: P6 (EXISTING)							
L-L VOLTAGE: 480 VOLTS	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
L-N VOLTAGE: 277 VOLTS	1	EXISTING	EXISTING WIRE & CONDUIT	70A/3P			4155 A 4155 B 4155 C
CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND	3	TRANSFORMER TLP					3324 A 3324 B 3324 C
MAINS: 200A MLO	5	RTU-405	EXISTING WIRE & CONDUIT	15A/3P			3878 A 3878 B 3878 C
MOUNTING: SURFACE	7	RTU-B119	EXISTING WIRE & CONDUIT	15A/3P			3878 A 3878 B 3878 C
AIC RATING: EXISTING	9						3324 A 3324 B 3324 C
	11	RTU-506	EXISTING WIRE & CONDUIT	15A/3P			3324 A 3324 B 3324 C
	13						A B C
	15	EXISTING EUH-1	EXISTING WIRE & CONDUIT	15A/3P			A B C
	17						A B C
	19						A B C
	21						A B C
	23						A B C
	25						A B C
	27						A B C
	29						A B C
	31	SPACE					A B C
	33	SPACE					A B C
	35	SPACE					A B C
	37	SPACE					A B C
	39	SPACE					A B C
	41	SPACE					A B C
	2	RTU-404	EXISTING WIRE & CONDUIT	15A/3P			3324 A 3324 B 3324 C
	4						3324 A
	6						3324 B
	8	RTU-406	EXISTING WIRE & CONDUIT	15A/3P			3324 A 3324 B 3324 C
	10						3324 A
	12	RTU-504	EXISTING WIRE & CONDUIT	15A/3P			3324 A 3324 B 3324 C
	14						3324 A
	16	RTU-505	EXISTING WIRE & CONDUIT	15A/3P			3324 A 3324 B 3324 C
	18						3324 A
	20	EXISTING WH-1	EXISTING WIRE & CONDUIT	15A/3P			3324 A 3324 B 3324 C
	22						A B C
	24						A B C
	26						A B C
	28						A B C
	30						A B C
	32	SPACE					A B C
	34	SPACE					A B C
	36	SPACE					A B C
	38	SPACE					A B C
	40	SPACE					A B C
	42	SPACE					A B C
GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12,#12G,3/4"C UNLESS OTHERWISE NOTED. 2. PROVIDE FEED THRU LUGS			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				71.47
			TOTALS PER TYPE (kVA):				71.47
			LOADS PER PHASE:	23.8 kVA 23.8 kVA 23.8 kVA	86.0 Amps 86.0 Amps 86.0 Amps		A B C
			PANEL TOTALS	71.5 KVA	86.0 AMPS		

PER NEC 408.4 (A), IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY UNDER THIS CONTRACT TO IDENTIFY ALL BRANCH CIRCUITS, BOTH EXISTING AND NEW, FED FROM EACH PANEL OR DISTRIBUTION BOARD INDICATED ON THESE PLANS. THIS CONTRACTOR SHALL ALSO PROVIDE AN UPDATED, TYPEWRITTEN SCHEDULE WITHIN THE PANEL DOOR OR ON THE DISTRIBUTION BOARD AS DESCRIBED & REQUIRED BY THE CODE.

PANELBOARD: L5 (EXISTING)							
L-L VOLTAGE: 208 VOLTS	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
L-N VOLTAGE: 120 VOLTS	1	RTU-500B	2#10,1#10G-3/4"C.	30A/2P			2184 A 2184 B
CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND	3	ROOF RECEPTACLES	2#12,1#12G-3/4"C.	20A/1P		1080	C
MAINS: 400A MCB	5	EXISTING LOAD		20A/1P			A
MOUNTING: SURFACE	7	EXISTING LOAD		70A/2P			B
AIC RATING: 10,000 AMPS	9	EXISTING LOAD		70A/2P			C
	11						A
	13						B
	15						C
	17	EXISTING RECEPTACLES		20A/1P			A
	19	EXISTING RECEPTACLES		20A/1P			B
	21	EXISTING RECEPTACLES		20A/1P			C
	23	EXISTING RECEPTACLES		20A/1P			A
	25	EXISTING RECEPTACLES		20A/1P			B
	27	EXISTING RECEPTS & EF-RR-309B	EXISTING WIRE & CON	20A/1P		900	528 A 528 B 528 C
	29	EXISTING RECEPTACLES		20A/1P			A
	31	EXISTING RECEPTACLES		20A/1P			B
	33	EXISTING RECEPTS & EF-RR-308B	EXISTING WIRE & CON	20A/1P		900	528 A 528 B 528 C
	35	EXISTING RECEPTS & EF-RR-307B	EXISTING WIRE & CON	20A/1P		900	A
	37	EXISTING RECEPTS & EF-RR-306B	EXISTING WIRE & CON	20A/1P		900	B
	39	EF-RR-72E & EF-RR-72G	EXISTING WIRE & CON	20A/1P			1056 A 1056 B 1056 C
	41	EXISTING LOAD		20A/1P			A
	2	EXISTING LOAD		40A/2P			B
	4						C
	6	EXISTING LOAD		70A/2P			A
	8						B
	10	EXISTING LOAD		70A/2P			C
	12						A
	14	EXISTING LOAD		20A/1P			B
	16	EXISTING RECEPTS & EF-RR-79C	EXISTING WIRE & CON	20A/1P		900	528 A 528 B 528 C
	18	EXISTING LOAD		20A/1P			A
	20	EXISTING RECEPTACLES		20A/1P			B
	22	EXISTING RECEPTACLES		20A/1P			C
	24	EXISTING RECEPTACLES		20A/1P			A
	26	EXISTING RECEPTACLES		20A/1P			B
	28	EXISTING LOAD		50A/2P			C
	30	EXISTING RECEPTS & EF-RR-301C	EXISTING WIRE & CON	20A/1P		900	528 A 528 B 528 C
	32	EXISTING RECEPTS & EF-RR-302B	EXISTING WIRE & CON	20A/1P		900	A
	34	EXISTING RECEPTACLES		20A/1P			B
	36	EXISTING RECEPTS & EF-RR-303B	EXISTING WIRE & CON	20A/1P		900	528 A 528 B 528 C
	38	EF-RR-72B & EF-RR-72C	EXISTING WIRE & CON	20A/1P			1056 A 1056 B 1056 C
	40	EXISTING LIGHTS GYM		20A/1P			A
	42	EXISTING EXIT LIGHTS		20A/1P			B
GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE 2#12,#12G,3/4"C UNLESS OTHERWISE NOTED. 2. PROVIDE FEED THRU LUGS			SUB-FEED PANELBOARD CONNECTED LOAD SUMMARY				10.70
			TOTALS PER TYPE (kVA):				10.70
			LOADS PER PHASE:	6.1 kVA 7.5 kVA 5.4 kVA	50.8 Amps 62.7 Amps 44.7 Amps		A B C
			PANEL TOTALS	19.0 KVA	52.7 AMPS		



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1050 Park Pl Blvd, Midlothian, TX 76065

PANEL SCHEDULES

JOB NO.: 22076-00  
DRAWN BY: CA  
CHECKED BY: JW

SHEET NO.

E2.04



