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MECHANICAL ENGINEER OF RECORD

ELECTRICAL ENGINEER OF RECORD

RWB CONSULTING ENGINEERS MECHANICAL, PLUMBING & ELECTRICAL ADDENDUM 1 ITEMS FOR T.E. BAXTER ES - HVAC REPLACEMENT MIDLOTHIAN I.S.D.

The following items modify the Specifications and Drawings and shall become part of the Contract Documents.

REVISIONS TO THE PROJECT MANUAL

The following specifications have been revised in this addendum. These revisions shall replace previously issued specifications as noted below.

1. SECTION 23 07 00 - Insulation

- A. Refer to Article 2.2: Add following paragraphs after paragraph 'B'
- "C. Flexible Fire Rated Duct Wrap/Boards for Grease Exhaust Ductwork, top of hoods exposed above ceilings, and elsewhere as noted on drawings:
 - 1. Where specified elsewhere herein or where indicated on the Drawings, provide a flexible or board type fire rated duct enclosure system on metal ductwork and portions of hoods exposed above a ceiling, where required by the local Code authority, that allows for zero clearance to combustibles and which can be applied directly to the ductwork, and hood, to minimize space needed for the enclosing materials. The wrap or board materials shall be manufactured in various thicknesses or be able to be installed in multiple layers of a uniform thickness, to obtain an overall fire rating from one to four hours, and to meet the requirements of the local authority having jurisdiction based on the local codes used.
 - The duct wrap, or board, shall be a noncombustible fire-proofing material capable of withstanding temperatures in excess of 2000 Deg. F. and up to 1,800 Deg. F. on a continuous basis. The fire rating of this material shall be uniform over the entire surface, as installed, and shall be suitable for installation on ducts.
 - 3. Refer to Specification Section 23 30 00 for grease and/or fume exhaust and ventilation air duct requirements. Coordinate the fire rated enclosure with that Section of Specifications (typically, minimum 1-hour rated enclosure).
 - 4. Board materials shall be composed of a hydrous calcium silicate made primarily from high purity lime, silica and reinforcing fibers. Joints shall be sealed with a compatible high temperature caulking. Board density shall be a nominal 18 pounds per cubic foot or greater. The R-value shall be

- approximately 1.7 per inch thickness of the board material. All board materials shall be as manufactured by "PABCO" or approved equals only.
- 5. Flexible duct wrap materials shall consist of a foil fiberglass reinforced scrim covering over a high temperature rated insulation system designed and rated to provide a fire rated barrier system around duct systems. Flexible duct enclosure systems shall meet all pertinent requirements of the most recent versions of ASTM E2336 and NFPA 96 (Section 4.3.1). This requires a one and one half inch (1-1/2") thick system with two layers of flexible fire wrap. Should the local Code in effect, and the authority having jurisdiction, allow a single layer system complying with the requirements of UL 1978, then this will be permitted. Verify all local code requirements prior to bidding this work. Duct wrap materials shall be as manufactured by:
 - a. 3M Corporation or equals by;
 - b. Thermal Ceramics (Firemaster), or
 - c. FyreWrap by "Unifrax".
- D. One (1) Hour Fire Rated Shaft Alternative for Dryer Exhaust Systems: Flexible Wrap Systems used on dryer exhaust systems shall be listed and labeled by an NRTL, Nationally Recognized Testing Laboratory. Labeling on scrim shall include product name and certification mark. Wrap system shall be fully encapsulated to resist moisture absorption. Wrap system shall be tested per ISO 6944, Type A duct, and achieve a one (1) hour rating for Stability, Integrity, and Insulation. Wrap shall also be tested per ASTM E 119, ASTM E 814/UL 1479, and ASTM E-84 or UL/ULC 723. A listed and labeled firestop system shall be available to seal the opening where the protected duct penetrates a fire rated floor or wall. The wrap system shall be installed with steel tie wire and/or banding per manufacturer's instructions. System is subject to approval of the local Authority Having Jurisdiction (AHJ) with the wrap material being Unifrax FyreWrap® DPS or approved equivalent."

REVISED & REISSUED DRAWINGS

The following list of drawings notes drawings revised and re-issued in this addendum. Previous versions of these drawings shall be removed and replaced with these revised drawings. For a list of drawings that are revised in this addendum, but not re-issued, refer to the REVISIONS TO DRAWINGS article and the narration provided for the revisions to drawings not re-issued in this addendum.

1. REVISED & REISSUED DRAWINGS

- 1. DMPE1.01 DEMOLITION ROOF PLAN MPE
- 2. MPE1.01 ROOF PLAN MPE
- 3. DM1.02 DEMOLITION FLOOR PLAN AREA 2 HVAC
- 4. DM1.03 DEMOLITION FLOOR PLAN AREA 3 HVAC
- 5. DM1.04 DEMOLITION FLOOR PLAN AREA 4 HVAC
- 6. DM1.05 DEMOLITION FLOOR PLAN AREA 5 HVAC
- 7. M1.01 FLOOR PLAN AREA 1 HVAC
- 8. M1.02 FLOOR PLAN AREA 2 HVAC
- 9. M1.03 FLOOR PLAN AREA 3 HVAC
- 10. M1.04 FLOOR PLAN AREA 4 HVAC
- 11. M1.05 FLOOR PLAN AREA 5 HVAC
- 12. MP2.01 DETAILS MECHANICAL & PLUMBING
- 13. ME2.02 DETAILS MECHANICAL & ELECTRICAL
- 14. MP3.01 SCHEDULES AND LEGEND MECHANICAL & PLUMBING
- 15. E2.01 PANEL SCHEDULES
- 16. E2.02 PANEL SCHEDULES
- 17. E2.03 PANEL SCHEDULES
- 18. E2.04 PANEL SCHEDULES

REVISIONS TO DRAWINGS NOT RE-ISSUED

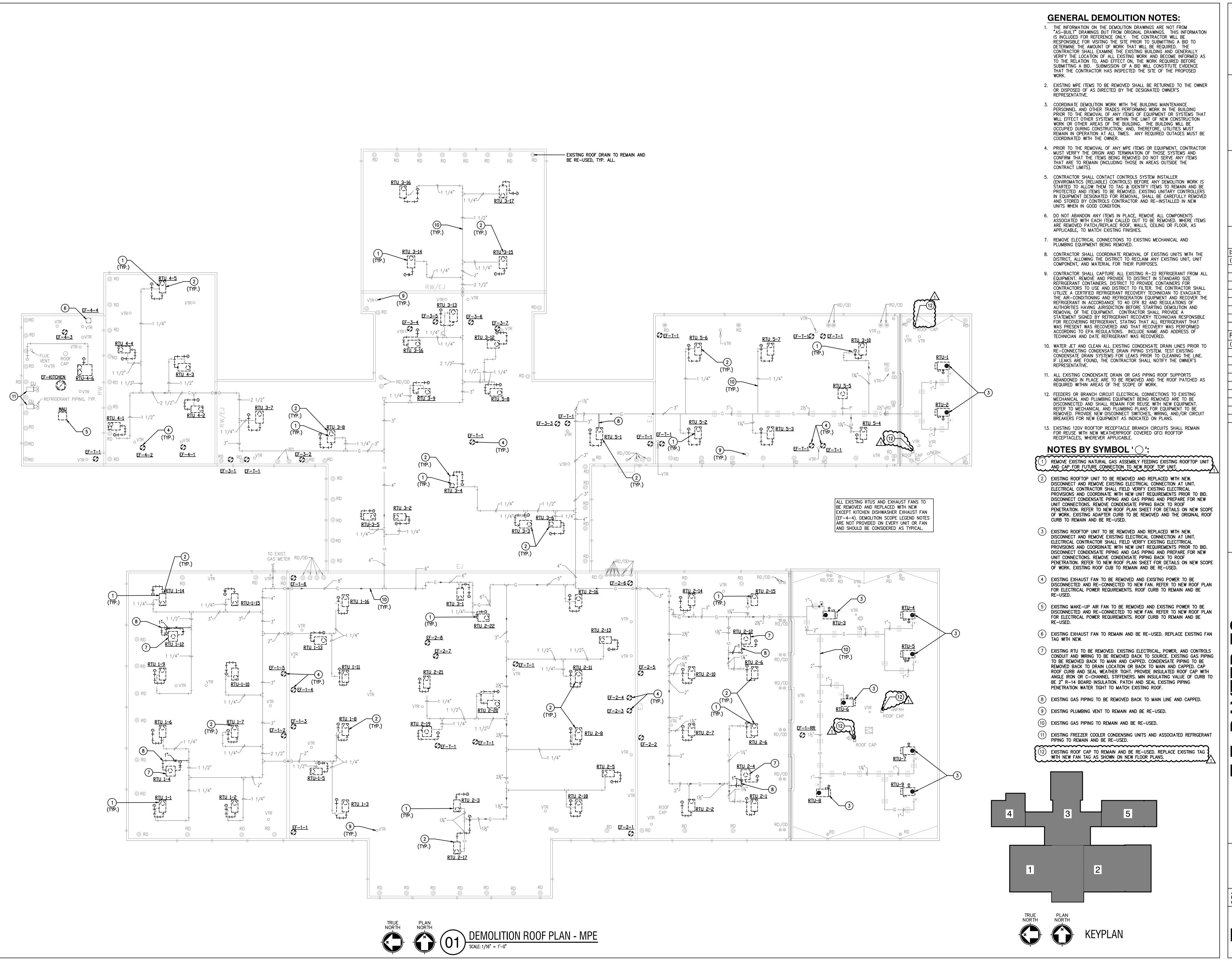
Please refer to the REVISED & REISSUED DRAWINGS article for a list of all drawings revised in this addendum. Previous versions of these drawings shall be removed and replaced with these revised drawings. The following list of drawings are revised in this addendum, but not re-issued. Refer to the narration provided for the revisions.

2. REVISED (NOT RE-ISSUED) DRAWINGS

- 1. Cover Sheet
 - A. Revised "M2.02 DETAILS MECHANICAL" sheet name to "ME2.02 DETAILS MECHANICAL & ELECTRICAL".

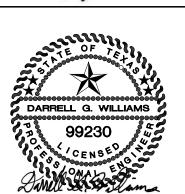
- 2. DM1.01 DEMOLITION FLOOR PLAN AREA 1 HVAC
 - A. Refer to Keynote 3 under Notes by Symbol and revise to read as follows
 - "3. EXISTING SUPPLY AIR DUCTWORK FROM DIFFUSER BACK TO UNIT CONNECTION ON ROOF TO REMOVED. EXISTING SUPPLY DIFFUSER TO REMAIN AND BE RE-USED."

END OF RWB CONSULTING ENGINEERS' ADDENDUM ITEMS



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01	ADDENDUM 01	2023.05.05

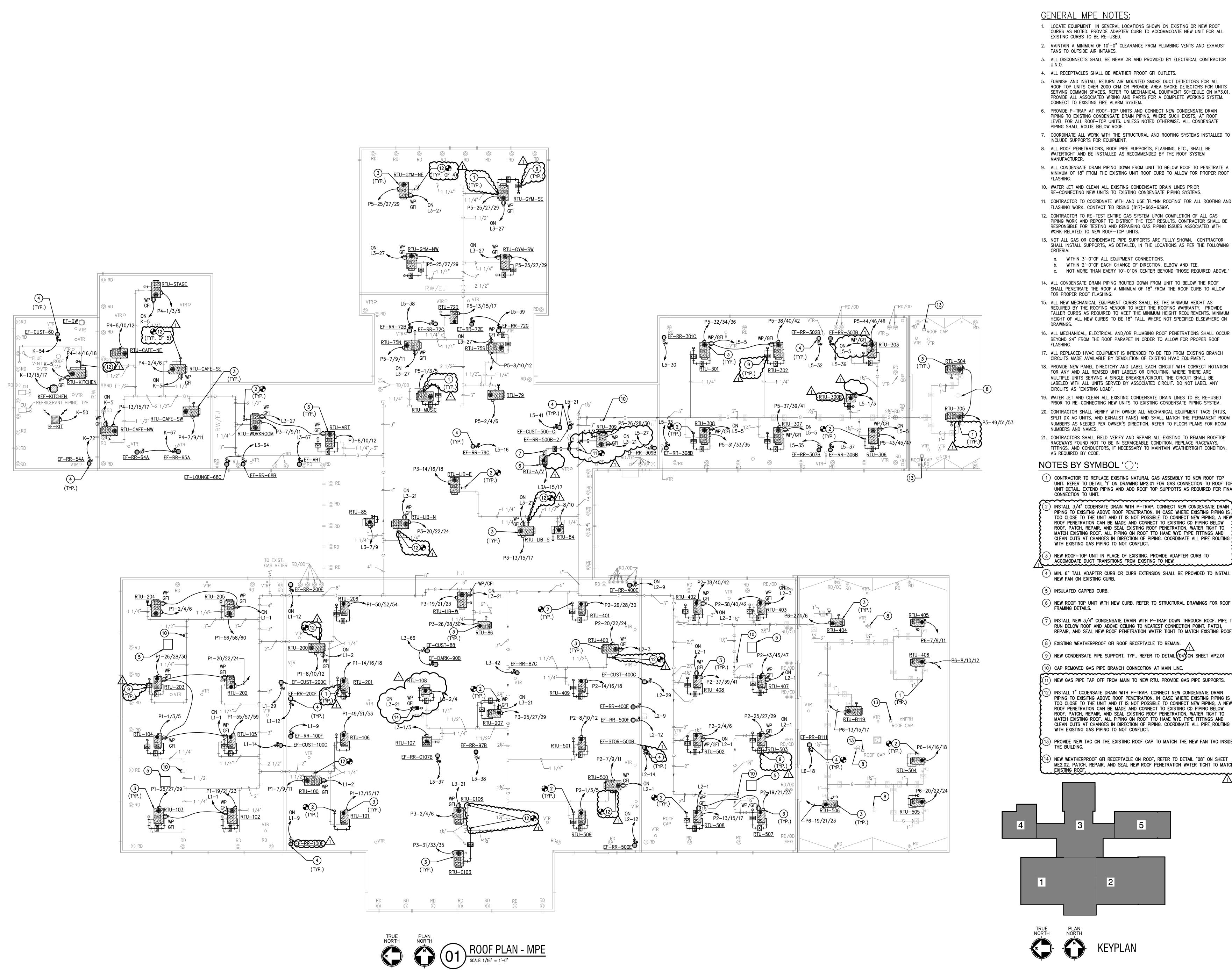




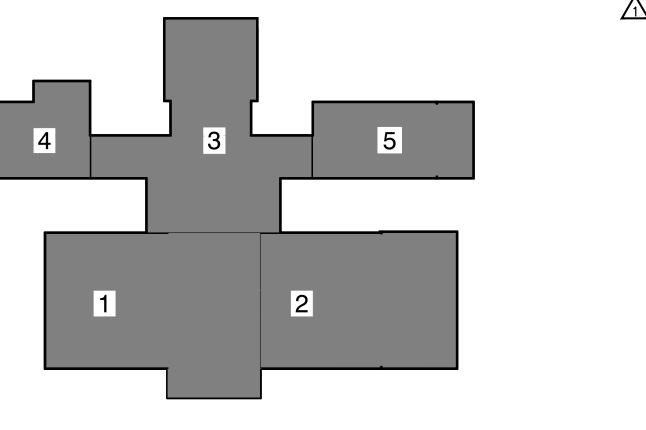
DEMOLITION ROOF PLAN - MPE

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

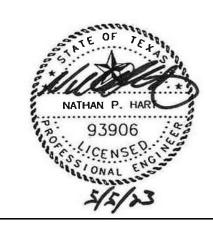
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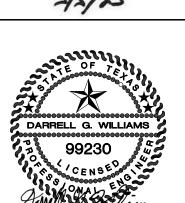


- 1. LOCATE EQUIPMENT IN GENERAL LOCATIONS SHOWN ON EXISTING OR NEW ROOF CURBS AS NOTED. PROVIDE ADAPTER CURB TO ACCOMMODATE NEW UNIT FOR ALL
- 2. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM PLUMBING VENTS AND EXHAUST
- 3. ALL DISCONNECTS SHALL BE NEMA 3R AND PROVIDED BY ELECTRICAL CONTRACTOR
- 5. FURNISH AND INSTALL RETURN AIR MOUNTED SMOKE DUCT 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 ALL ASSOCIATED WIRING AND PARTS FOR A COMPLETE WORKING 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
- 7. COORDINATE ALL WORK WITH THE STRUCTURAL AND ROOFING SYSTEMS INSTALLED TO
- 8. ALL ROOF PENETRATIONS, ROOF PIPE SUPPORTS, FLASHING, ETC., SHALL BE WATERTIGHT AND BE INSTALLED AS RECOMMENDED BY THE ROOF SYSTEM
- 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
- 10. WATER JET AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES PRIOR
- 11. CONTRACTOR TO COORIDNATE WITH AND USE 'FLYNN ROOFING' FOR ALL ROOFING AND
- 12. CONTRACTOR TO RE-TEST ENTIRE GAS SYSTEM UPON COMPLETION OF ALL GAS PIPING WORK AND REPORT TO DISTRICT THE TEST RESULTS. CONTRACTOR SHALL BE
- 13. NOT ALL GAS OR CONDENSATE PIPE SUPPORTS ARE FULLY SHOWN. CONTRACTOR
- SHALL INSTALL SUPPORTS, AS DETAILED, IN THE LOCATIONS AS PER THE FOLLOWING
- b. WITHIN 2'-0" OF EACH CHANGE OF DIRECTION, ELBOW AND TEE.
- c. NOT MORE THAN EVERY 10'-0"ON CENTER BEYOND THOSE REQUIRED ABOVE."
- 14. ALL CONDENSATE DRAIN PIPING ROUTED DOWN FROM UNIT TO BELOW THE ROOF
- 15. ALL NEW MECHANICAL EQUIPMENT CURBS SHALL BE THE MINIMUM HEIGHT AS REQUIRED BY THE ROOFING VENDOR TO MEET THE ROOFING WARRANTY. PROVIDE
- 16. ALL MECHANICAL, ELECTRICAL AND/OR PLUMBING ROOF PENETRATIONS SHALL OCCUR
- 17. ALL REPLACED HVAC EQUIPMENT IS INTENDED TO BE FED FROM EXISTING BRANCH
- 18. PROVIDE NEW PANEL DIRECTORY AND LABEL EACH CIRCUIT WITH CORRECT NOTATION FOR ANY AND ALL REVISED UNIT LABELS OR CIRCUITING. WHERE THERE ARE MULTIPLE UNITS SERVING A SINGLE BREAKER/CIRCUIT, THE CIRCUIT SHALL BE LABELED WITH ALL UNITS SERVED BY ASSOCIATED CIRCUIT. DO NOT LABEL ANY
- 19. WATER JET AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES TO BE RE-USED
- 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
- RACEWAYS FOUND NOT TO BE IN SERVICEABLE CONDITION. REPLACE RACEWAYS, FITTINGS, AND CONDUCTORS, IF NECESSARY TO MAINTAIN WEATHERTIGHT CONDITION,
- (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
-) INSTALL 3/4" CODENSATE DRAIN WITH P—TRAP. CONNECT NEW CONDENSATE DRAIN PIPING TO EXISITNG ABOVE ROOF PENETRATION. IN CASE WHERE EXISTING PIPING I 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. ALL PIPING ON ROOF TTO HAVE WYE TYPE FITTINGS AND CLEAN OUTS AT CHANGES IN DIRECTION OF PIPING. COORDINATE ALL PIPE ROUTING WITH EXISTING GAS PIPING TO NOT CONFLICT.
- NEW ROOF-TOP UNIT IN PLACE OF EXISTING. PROVIDE ADAPTER CURB TO ACCOMODATE DUCT TRANSITIONS FROM EXISTING TO NEW.
- (4) MIN. 6" TALL ADAPTER CURB OR CURB EXTENSION SHALL BE PROVIDED TO INSTALL
- (6) NEW ROOF TOP UNIT WITH NEW CURB. REFER TO STRUCTURAL DRAWINGS FOR ROOF
- (7) install New 3/4" condensate drain with P-trap down through roof. 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 ('04') ON SHEET MP2.01
- (10) CAP REMOVED GAS PIPE BRANCH CONNECTION AT MAIN LINE.
- INSTALL 1" CODENSATE DRAIN WITH P-TRAP. CONNECT NEW CONDENSATE DRAIN PIPING TO EXISITNG ABOVE ROOF PENETRATION. IN CASE WHERE 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. ALL PIPING ON ROOF TTO HAVE WYE TYPE FITTINGS AND
- PROVIDE NEW TAG ON THE EXISTING ROOF CAP TO MATCH THE NEW FAN TAG INSIDE
- 14) NEW WEATHERPROOF GFI RECEPTACLE ON ROOF, REFER TO DETAIL "08" ON SHEET ME2.02. PATCH, REPAIR, AND SEAL NEW ROOF PENETRATION WATER TIGHT TO MATCH



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01 ISSUE FOR CONSTRUCTION | 2023.04.28 REVISIONS O1 ADDENDUM 01



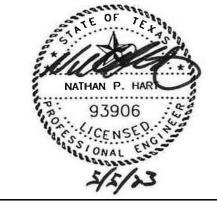
ROOF PLAN - MPE

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

SHEET NO. MPE1.01

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





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()1 ISSUE FOR CONSTRUCTION | 2023.04.28

ISSUES

REVISIONS

O1 ADDENDUM 01

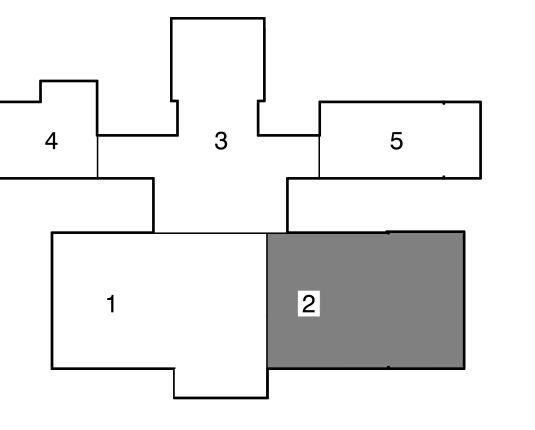
GENERAL DEMOLITION NOTES:

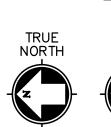
- 1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY. CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE AMOUNT OF WORK THAT WILL BE REQUIRED. CONTRACTOR 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, PALLETIZED, 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
- 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 DERRIS
- 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 ACCOMODATE 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 PIPNIG 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 ' () ':

- 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 "USG-FSRD-FC".
- 3 EXISTING SUPPLY AIR DUCTWORK FROM DIFFUSER BACK TO UNIT CONNECTION ON ROOF TO BE REMOVED. EXISTING SUPPLY DIFFUSER TO REMAIN AND BE 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.
- 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 REMAIN AND BE RE-USED.
- 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 EXHAUST FAN ABOVE CEILING TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK FROM EXISTING EXHAUST FAN AND CONNECT TO NEW FAN.
- 9 EXISTING COMBINATION TEMPERATURE/HUMIDITY SENSORS TO REMAIN AND BE RE-USED TO FOR NEW UNITS.
- EXISTING ROOF—TOP UNIT TO BE REMOVED AND CURB CAPPED. EXISTING CONDENSATE DRAIN PIPING TO BE CAPPED AND ABANDONED IN PLACE.



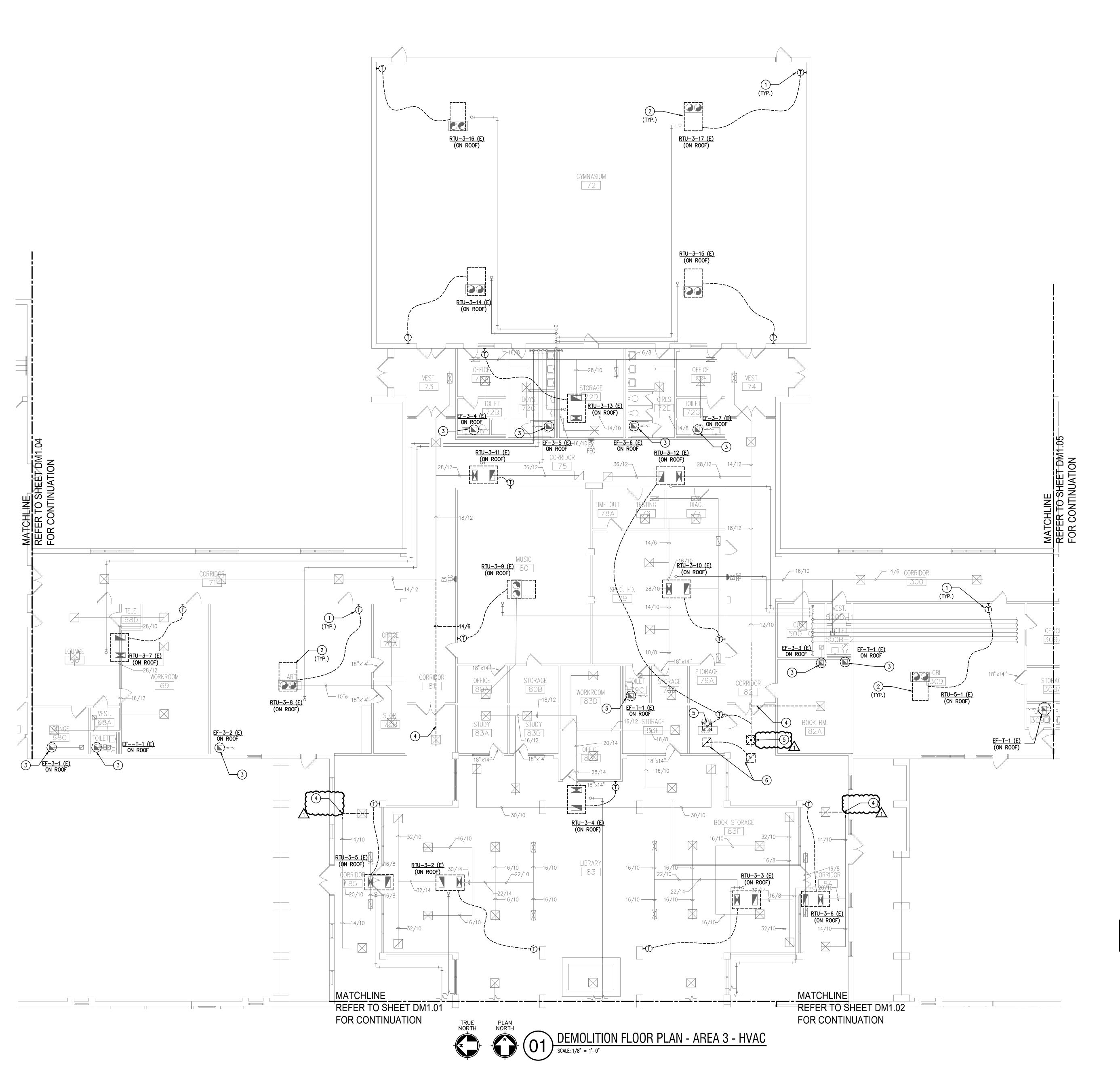




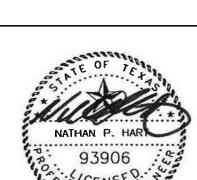
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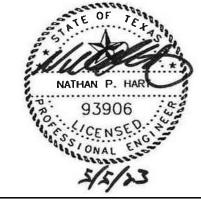
DM1.02

DEMOLITION FLOOR PLAN - AREA 2 - HVAC









ISSUES ()1 ISSUE FOR CONSTRUCTION | 2023.04.28 REVISIONS 01 ADDENDUM 01

2023.04.28





1) EXISTING TEMPERATURE SENSOR TO BE REMOVED AND REPLACED WITH NEW. EXISTING SENSORS SHALL BE CAREFULLY REMOVED, WRAPPED, PALLETIZED, AND RETURNED TO DISTRICT (OWNER).

GENERAL DEMOLITION NOTES:

INSPECTED THE SITE OF THE PROPOSED WORK.

CONTRACT LIMITS).

DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.

REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.

CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.

PAINT ENTIRE ROOM CEILING AFTER PATCHING.

NOTES BY SYMBOL ' ::

UNITS TO EXISTING CONDENSATE DRAIN PIPNIG SYSTEM.

1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY.

A BID. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS

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

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

CONSTRUCTION; AND, THEREFORE, UTILITIES MUST REMAIN IN OPERATION AT ALL TIMES. ANY

DO NOT SERVE ANY ITEMS THAT ARE TO REMAIN (INCLUDING THOSE IN AREAS OUTSIDE THE

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,

6. DO NOT ABANDON ANY ITEMS IN PLACE, REMOVE ALL COMPONENTS ASSOCIATED WITH EACH

7. ALL EXISTING FIRE ALARM, SECURITY AND OTHER CEILING MOUNTED DEVICES TO REMAIN IN

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

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

11. REMOVE AND RE-INSTALL EXISTING LAY-IN AND GYPSUM CEILING AS REQUIRED TO ACCOMODATE 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,

12. WATER JET AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES PRIOR TO RE-CONNECTING NEW

13. THE MECHANICAL CONTRACTOR / DEMOLITION CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE SCOPE OF DEMOLITION FOR ELECTRICAL CONNECTIONS. THOSE

14. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UNITS WITH DISTRICT, ALLOWING THE

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

UNITS BEING REMOVED SHALL BE SAFELY DISCONNECTED FROM EXISTING POWER.

DISTRICT TO REMOVE ANY EXISTING UNIT COMPONENTS FOR SPARE STOCK.

CORRIDOR AND BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

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

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

OPERATION DURING CONSTRUCTION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT

SHRINK WRAPPED, PALLETIZED, AND PROVIDED TO OWNER FOR THEIR USE.

2. EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS

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

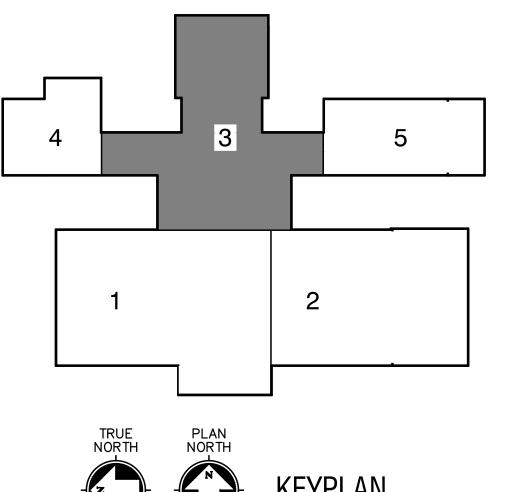
2 EXISTING RTU ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING RTU AND RECONNECT WITH NEW UNIT.

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.

5 EXISTING SUPPLY AIR DIFFUSER AND ASSOCIATED DUCTWORK TO BE REMOVED BACK TO APPROXIMATE LOCATION SHOWN AND CAPPED.

6 EXISTING TRANSFER AIR GRILLE AND ASSOCIATED DUCTWORK TO BE REMOVED PROVIDE NEW CEILING TILE IN PLACE OF REMOVED EXISTING TRANSFER AIR GRILLE IN CORRIDOR 1

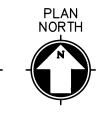


DEMOLITION FLOOR PLAN - AREA 3 - HVAC

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

SHEET NO. DM1.03











2023.04.28

ISS	SUES	
01	ISSUE FOR CONSTRUCTION	2023.04.2
RE	VISIONS	
01	ADDENDUM 01	2023.05.0





NOTES BY SYMBOL ' ::

PAINT ENTIRE ROOM CEILING AFTER PATCHING.

UNITS TO EXISTING CONDENSATE DRAIN PIPNIG SYSTEM.

GENERAL DEMOLITION NOTES:

DIRECTED BY THE DESIGNATED OWNER'S REPRESENTATIVE.

REQUIRED OUTAGES MUST BE COORDINATED WITH THE OWNER.

CALLED FOR PATCHING SHALL MATCH THE NEW FINISH.

INSPECTED THE SITE OF THE PROPOSED WORK.

CONTRACT LIMITS).

PLATES AND PANDUIT.

1. THE INFORMATION ON THE DEMOLITION DRAWINGS ARE NOT FROM "AS-BUILT" DRAWINGS BUT FROM ORIGINAL DRAWINGS. THIS INFORMATION IS INCLUDED FOR REFERENCE ONLY.

A BID. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS

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

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

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,

6. DO NOT ABANDON ANY ITEMS IN PLACE, REMOVE ALL COMPONENTS ASSOCIATED WITH EACH

7. ALL EXISTING FIRE ALARM, SECURITY AND OTHER CEILING MOUNTED DEVICES TO REMAIN IN

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

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

11. REMOVE AND RE-INSTALL EXISTING LAY-IN AND GYPSUM CEILING AS REQUIRED TO ACCOMODATE 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,

12. WATER JET AND CLEAN ALL EXISTING CONDENSATE DRAIN LINES PRIOR TO RE-CONNECTING NEW

13. THE MECHANICAL CONTRACTOR / DEMOLITION CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR REGARDING THE SCOPE OF DEMOLITION FOR ELECTRICAL CONNECTIONS. THOSE

14. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING UNITS WITH DISTRICT, ALLOWING THE

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

UNITS BEING REMOVED SHALL BE SAFELY DISCONNECTED FROM EXISTING POWER.

DISTRICT TO REMOVE ANY EXISTING UNIT COMPONENTS FOR SPARE STOCK.

CORRIDOR AND BE RAM BOARD OR EQUAL TYPE FLOOR PROTECTION.

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

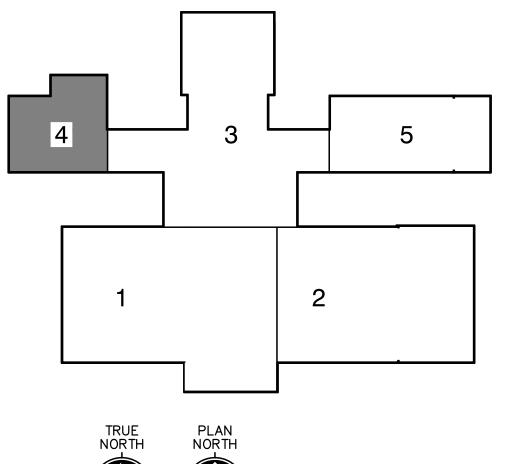
OPERATION DURING CONSTRUCTION AND BE RE-INSTALLED AS NEEDED. TEMPORARILY SUPPORT

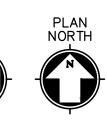
SHRINK WRAPPED, PALLETIZED, AND PROVIDED TO OWNER FOR THEIR USE.

2. EXISTING MPE ITEMS TO BE REMOVED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS

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

- (1) EXISTING TEMPERATURE SENSOR TO BE REMOVED AND REPLACED WITH NEW. EXISTING SENSORS SHALL BE CAREFULLY REMOVED, WRAPPED, AND PALLETIZED, AND RETURNED TO DISTRICT (OWNER). $oldsymbol{u}_1$
- 2 EXISTING RTU ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING RTU AND RECONNECT WITH NEW
- 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
- REMOVE EXISTING EXTERNAL INSULATION ON EXISTING EXHAUST DUCTWORK FROM HOOD CONNECTION BACK TO FAN CONNECTION ON ROOF.
- 6) REMOVE EXISTING EXTERNAL 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 RTU CONNECTION ON ROOF.
- 8) EXISTING RETURN AIR GRILLE TO REMAIN AND BE RE-USED. \nearrow





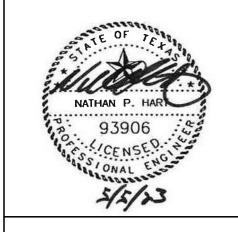


DEMOLITION FLOOR PLAN - AREA 4 - HVAC

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

DM1.04



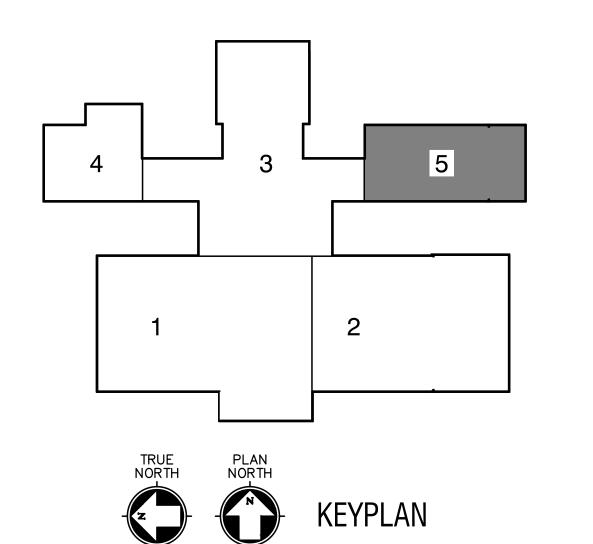


GENERAL DEMOLITION NOTES:

- 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, PALLETIZED, 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 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
- 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 ACCOMODATE 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 PIPNIG 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 ' ():

- 1 EXISTING RTU ON ROOF TO BE REMOVED AND REPLACED WITH NEW. DISCONNECT EXISTING DUCTWORK BELOW ROOF FROM EXISTING RTU AND RECONNECT WITH NEW
- 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.
- 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 REMAIN AND BE RE-USED FOR NEW UNITS.



REVISIONS
01 ADDENDUM 01 2023.05.05

2023.04.28

()1 ISSUE FOR CONSTRUCTION | 2023.04.28

ISSUES



EPLACEMENT DLOTHIAN I.S.D.

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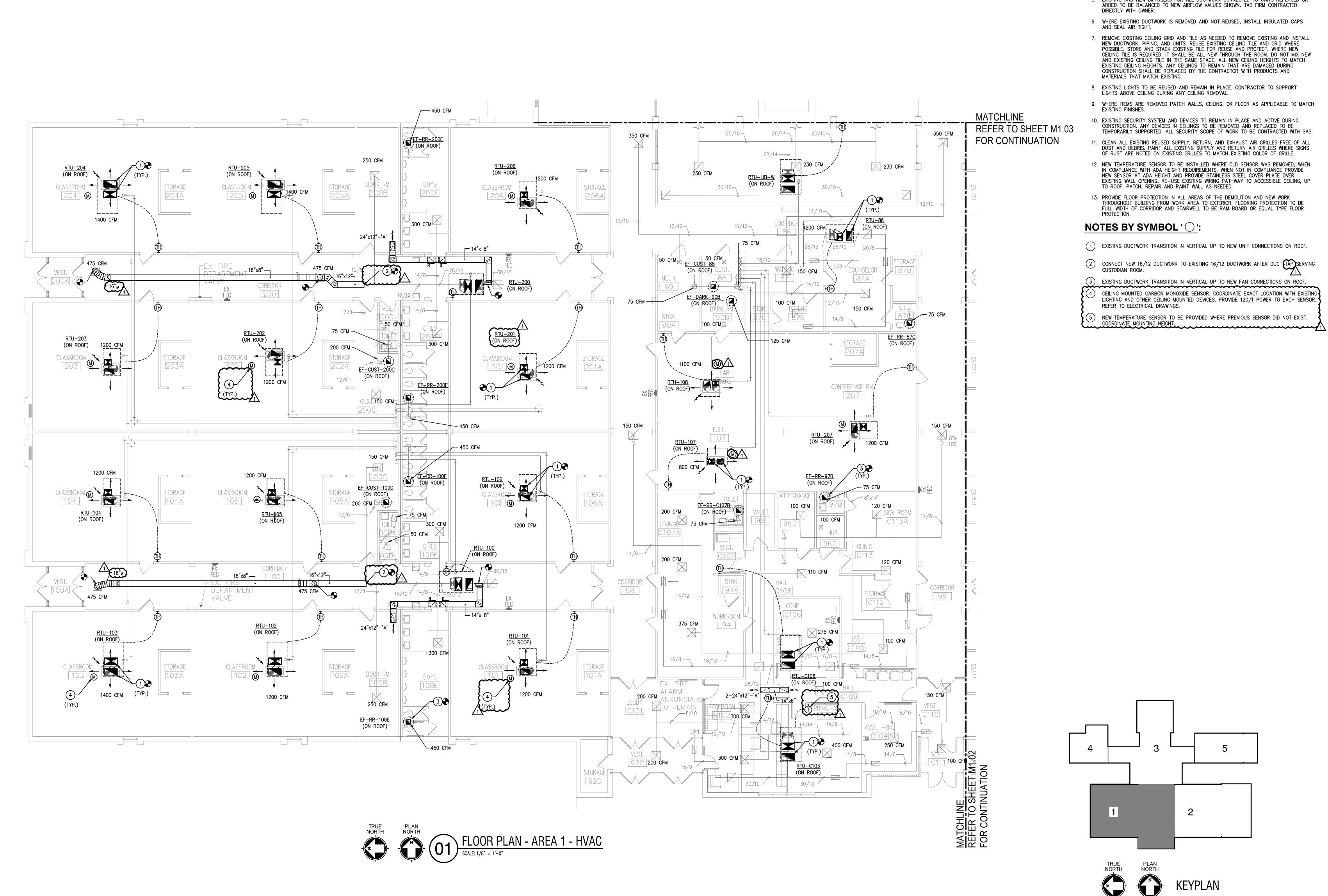
PLAN - AREA 5 - HVAC

SHEET NO.

DEMOLITION FLOOR

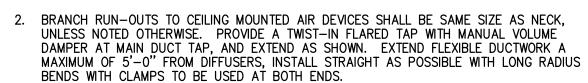
JOB NO.: 22146-00 DRAWN BY: ND CHECKED BY: HV/NH

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RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 1½" 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.



- 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
- 5. EXISTING AND NEW DIFFUSERS FOR ALL DUCTWORK CONNECTED TO UNITS REPLACED OR



Consulting Engineers

12001 N Central Expy TX Firm #F-2176 Suite 1100 (972) 788-4222 Dallas, TX 75243 Project 22146.00

2023.04.28

()1 ISSUE FOR CONSTRUCTION | 2023.04.28

2023.05.05

ISSUES

REVISIONS

O1 ADDENDUM 01

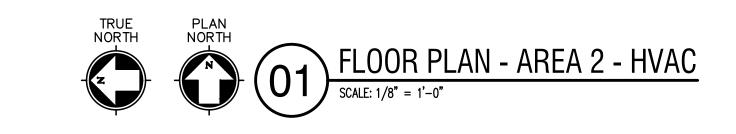
Suite 1100 Dallas, TX 75243



FLOOR PLAN - AREA

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

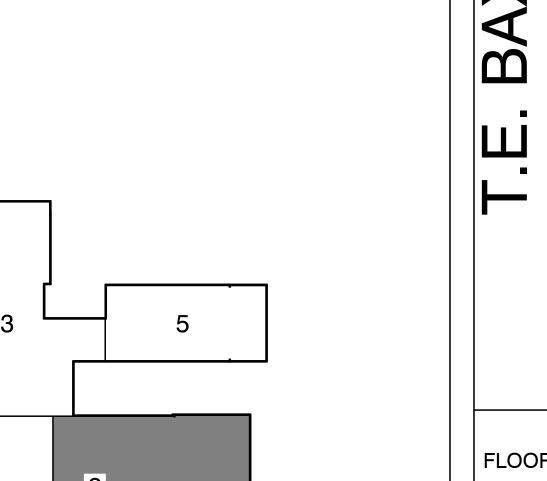
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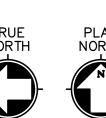


- 1. RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 1½" THICK ACOUSTICAL AND THERMAL LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0" TO MEET THE 2018 IECC REQUIREMENTS. RECTANGULAR RETURN DUCT SHALL BE LINED WITH 1" LINER FOR THE 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
- 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

NOTES BY SYMBOL ' ():

- 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 TAP SERVING CUSTODIAN ROOM.
- 3 EXISTING DUCTWORK TRANSITION IN VERTICAL UP TO NEW FAN CONNECTIONS ON ROOF.
- 4 CEILING MOUNTED CARBON MONOXIDE SENSOR. COORDINATE EXACT LOCATION WITH EXISTING LIGHTING AND OTHER CEILING MOUNTED DEVICES. PROVIDE 120/1 POWER TO EACH SENSOR. REFER TO ELECTRICAL DRAWINGS.
- 5) PROVIDE NEW CEILING MOUNTED EXHAUST FAN AND CONNECT TO EXISTING EXHAUST DUCT AND ROOM CONTROLS.







EYPLAN

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(972) 788-4222
Project 22146.00



2023.04.28

01 ISSUE FOR CONSTRUCTION | 2023.04.28

ISSUES

REVISIONS
01 ADDENDUM 01 2023.05.0



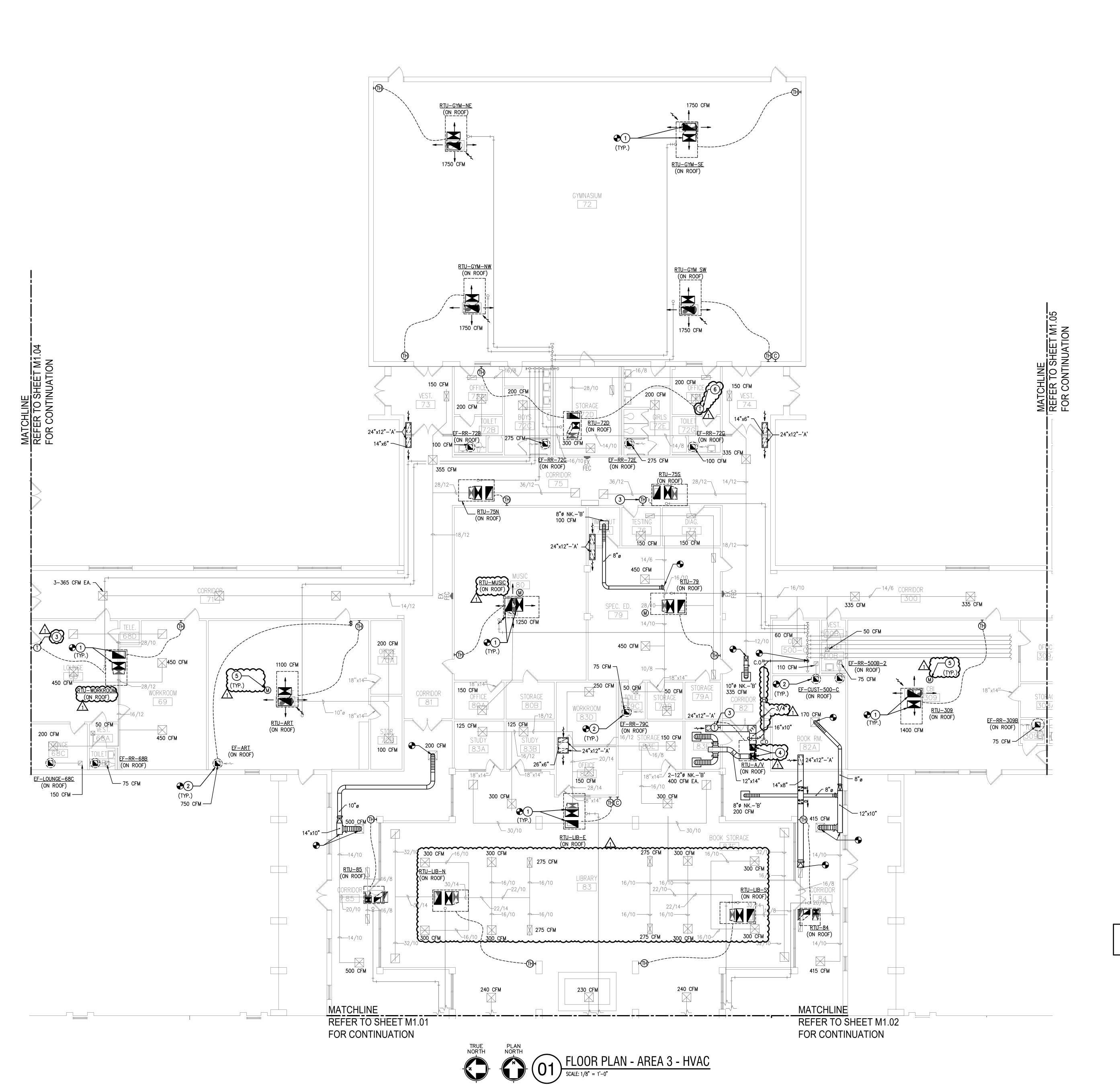
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FLOOR PLAN - AREA 2 -HVAC

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

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SHOWN, UNLESS NOTED OTHERWISE.

- RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 1½" 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
- 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
- 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

NOTES BY SYMBOL ' ::

- (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.
- $oxed{(5)}$ CEILING MOUNTED CARBON MONOXIDE SENSOR. COORDINATE EXACT LOCATION WITH EXISTIN LIGHTING AND OTHER CEILING MOUNTED DEVICES. PROVIDE 120/1 POWER TO EACH SENSOR. REFER TO ELECTRICAL DRAWINGS.
- 6 NEW TEMPERATURE SENSOR TO BE PROVIDED WHERE PREVIOUS SENSOR DID NOT EXIST. COORDINATE MOUNTING HEIGHT.



Suite 1100 Dallas, TX 75243



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-HVAC

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

SHEET NO.

FLOOR PLAN - AREA 3

M1.03

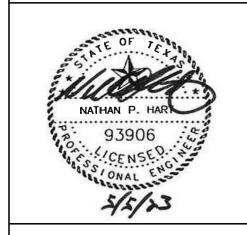
- RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 11/2" THICK ACOUSTICAL AND THERMAL LINER FOR THE FIRST 10'-0" FROM THE UNIT AND EXTERNALLY WRAPPED WITH MINIMUM 2" INSULATION AFTER THE FIRST 10'-0" TO MEET THE 2018 IECC REQUIREMENTS. RECTANGULAR RETURN DUCT SHALL BE LINED WITH 1" LINER FOR THE FIRST 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
- 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
- 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 ' ::

- (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 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.
- PROVIDE NEW EXTERNAL DUCT INSULATION ON MAKE-UP AIR DUCT AS NOTED IN SPECIFICATIONS FROM HOOD CONNECTION BACK TO FAN CONNECTION ON ROOF.
- PROVIDE NEW FYRE WRAP INSULATION ON KITCHEN GREASE HOOD EXHAUST DUCTWORK FROM HOOD CONNECTION BACK TO FAN CONNECTION ON ROOF.



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RE	VISIONS	
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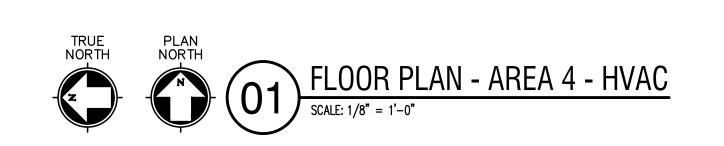


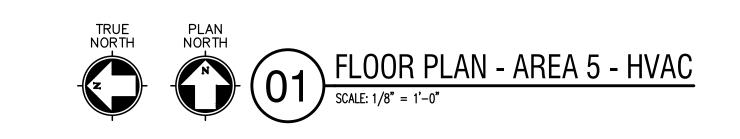
FLOOR PLAN - AREA 4 -HVAC

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

SHEET NO.

M1.04





- RECTANGULAR SUPPLY AIR DUCTWORK IS TO BE LINED WITH 1½" 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
- 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
- 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.

CONSTRUCTION. ANY DEVICES IN CEILINGS TO BE REMOVED AND REPLACED TO BE

- 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

NOTES BY SYMBOL ' ::

- (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. PROVIDE NEW CEILING MOUNTED EXHAUST FAN AND CONNECT TO EXISTING EXHAUST DUCT AND ROOM CONTROLS.
- ig(4ig) CEILING MOUNTED CARBON MONOXIDE SENSOR. COORDINATE EXACT LOCATION WITH EXISTING LIGHTING AND OTHER CEILING MOUNTED DEVICES. PROVIDE 120/1 POWER TO EACH SENSOR. REFER TO ELECTRICAL DRAWINGS.







2023.04.28

01 ISSUE FOR CONSTRUCTION | 2023.04.28

ISSUES

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KE	VISIONS	
	ADDENDUM 01	2023.05.05
		2023.05.05
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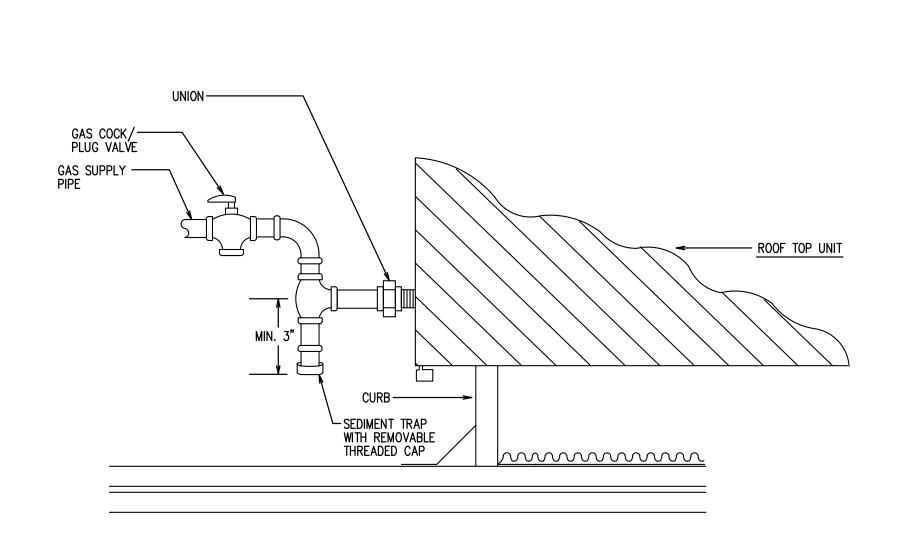




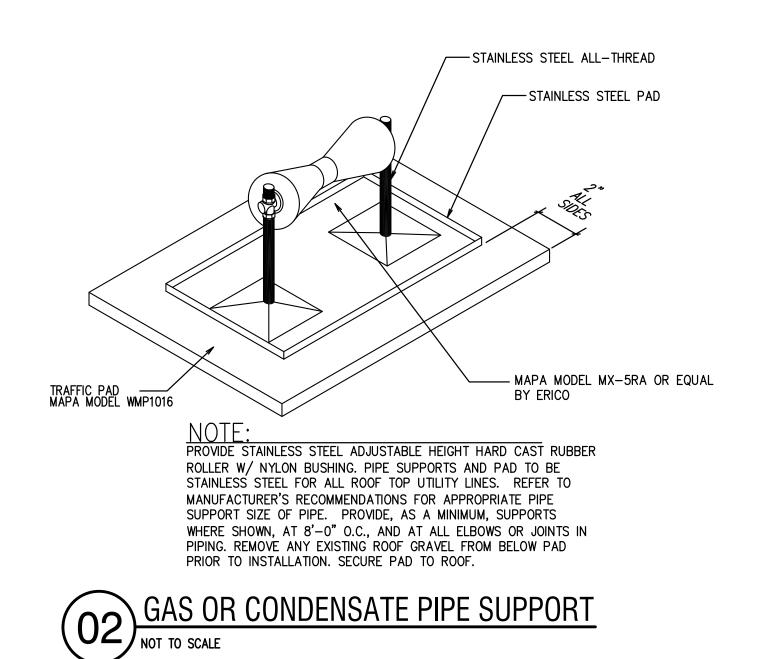
FLOOR PLAN - AREA 5

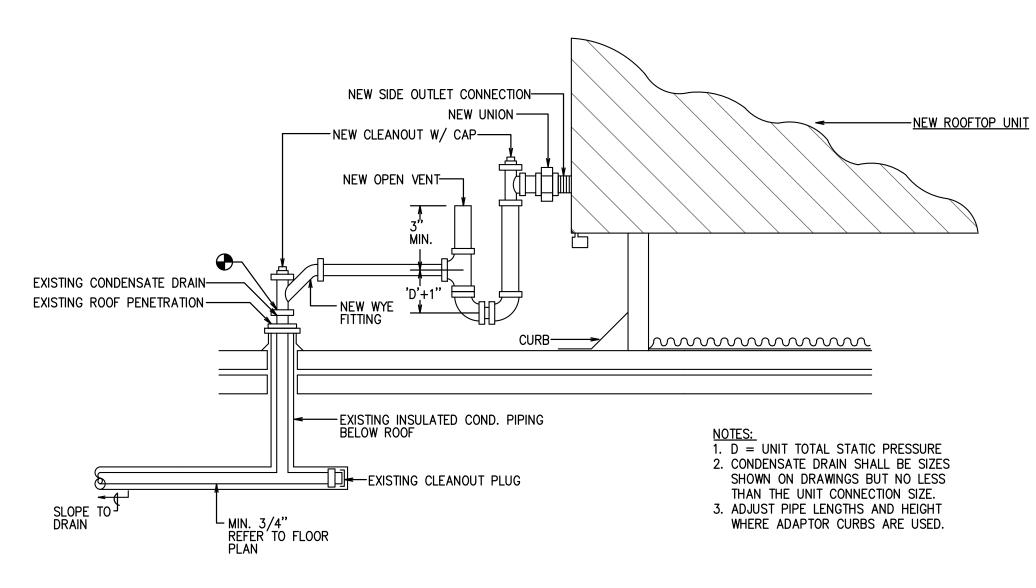
JOB NO.: 22146-00 DRAWN BY: ND CHECKED BY: HV/NH

M1.05

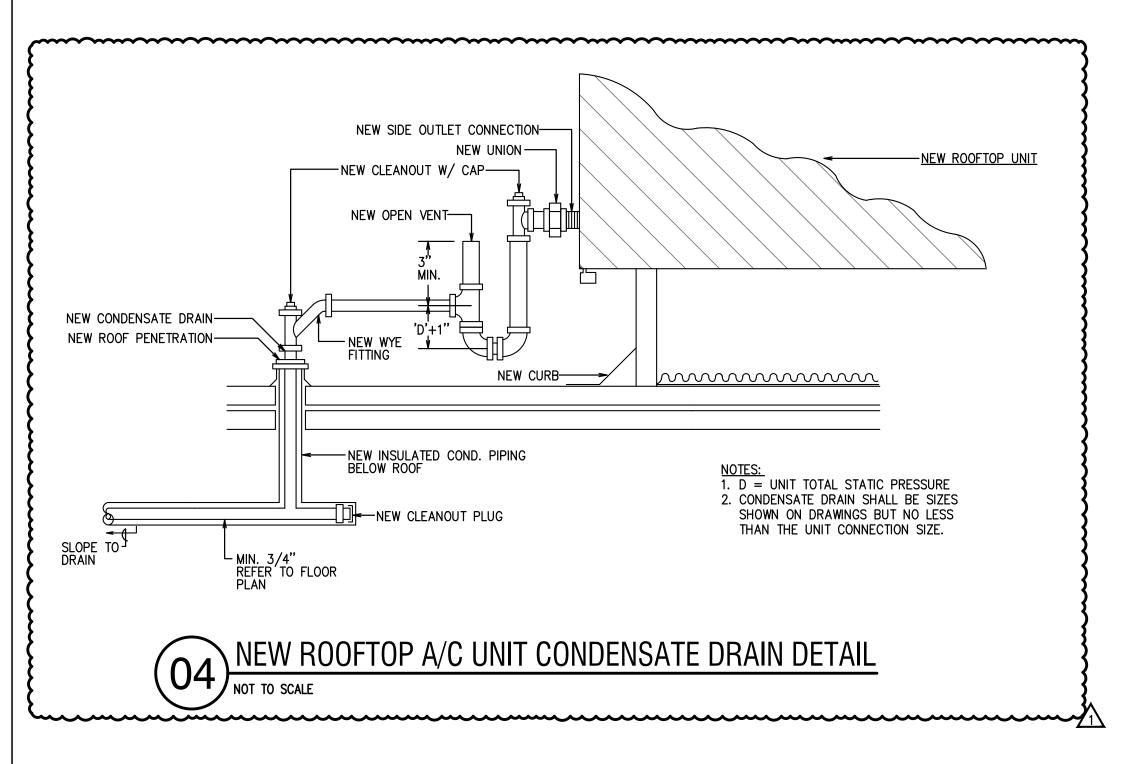


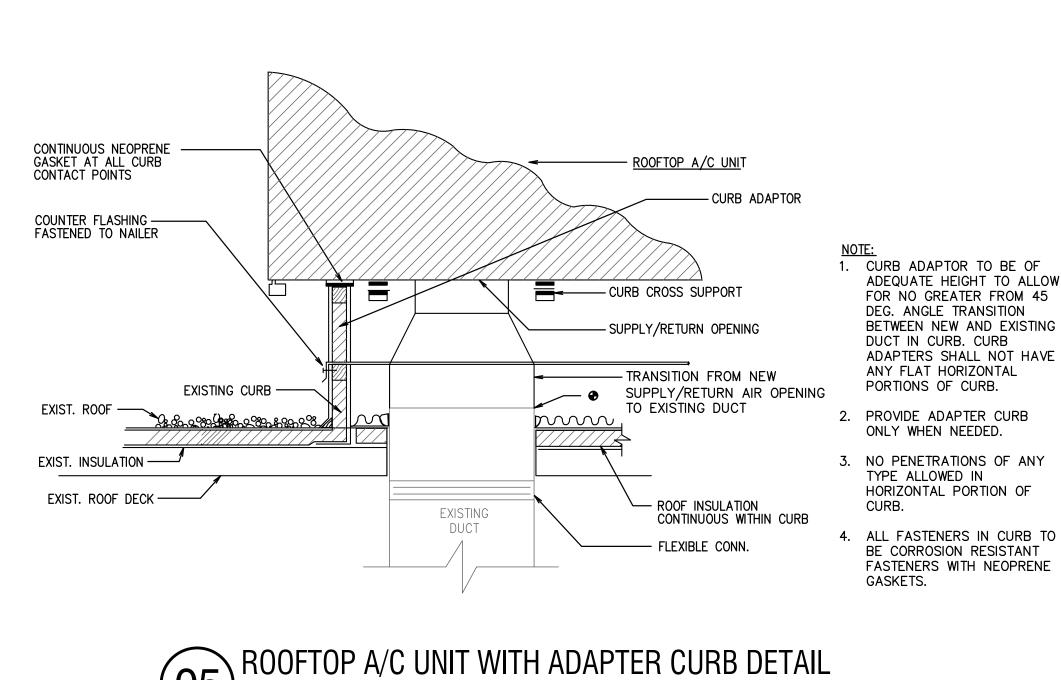
OOF TOP A/C UNIT GAS PIPING

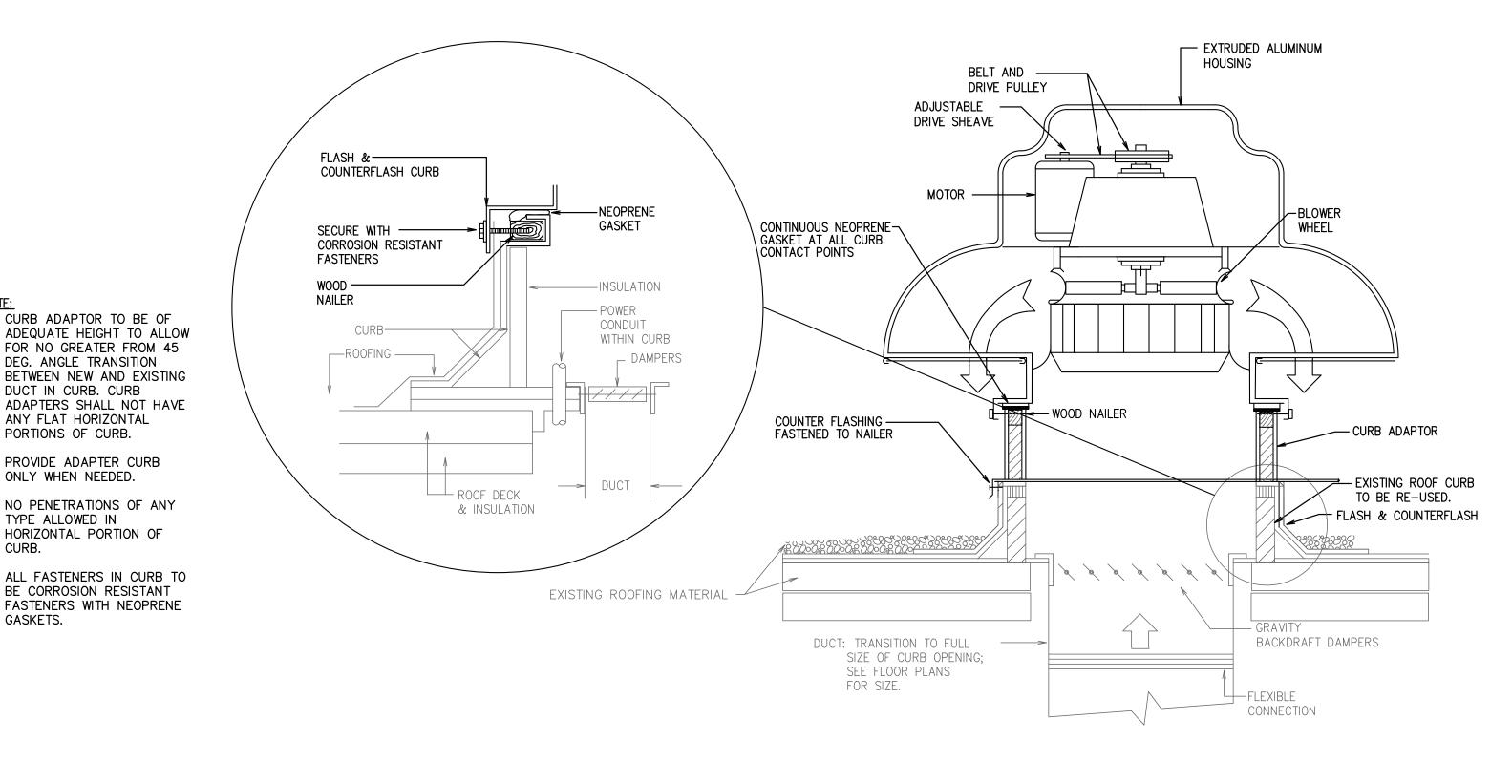






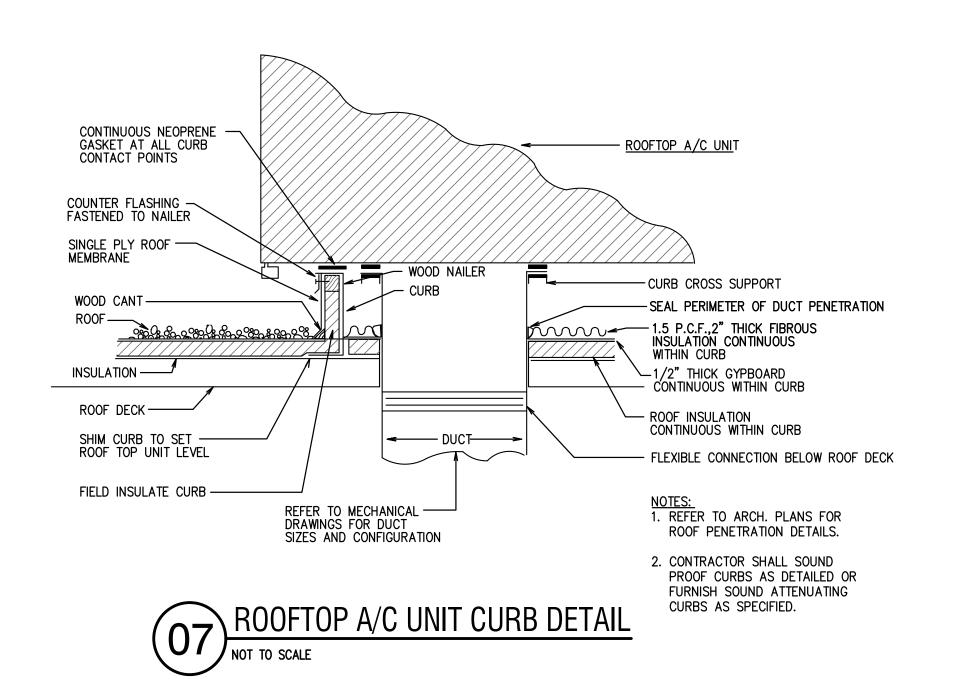


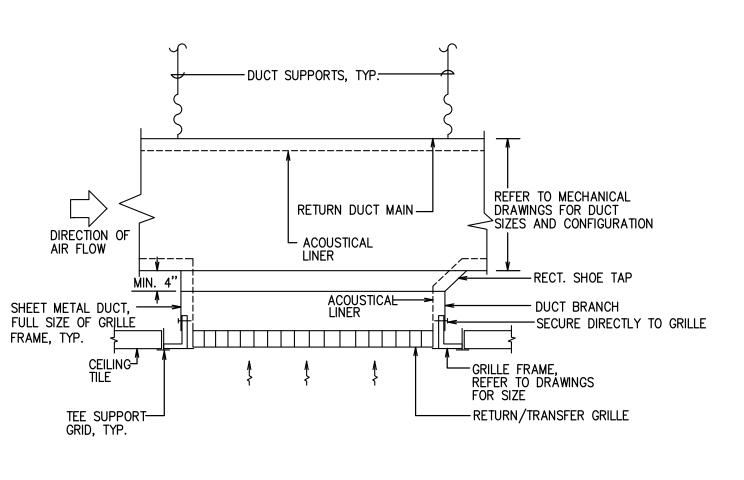




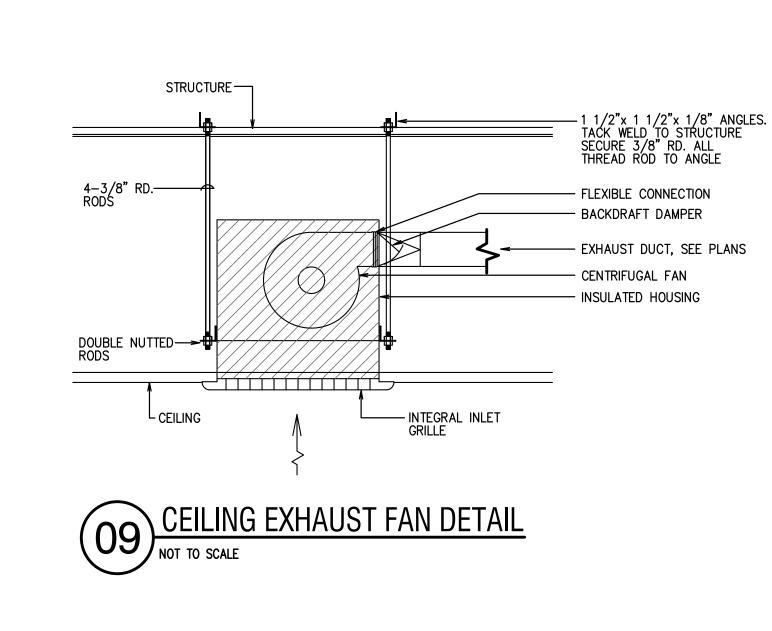
ROOF TOP CENTRIFUGAL EXHAUST FAN MOUNTED ON EXISTING CURB DETAIL

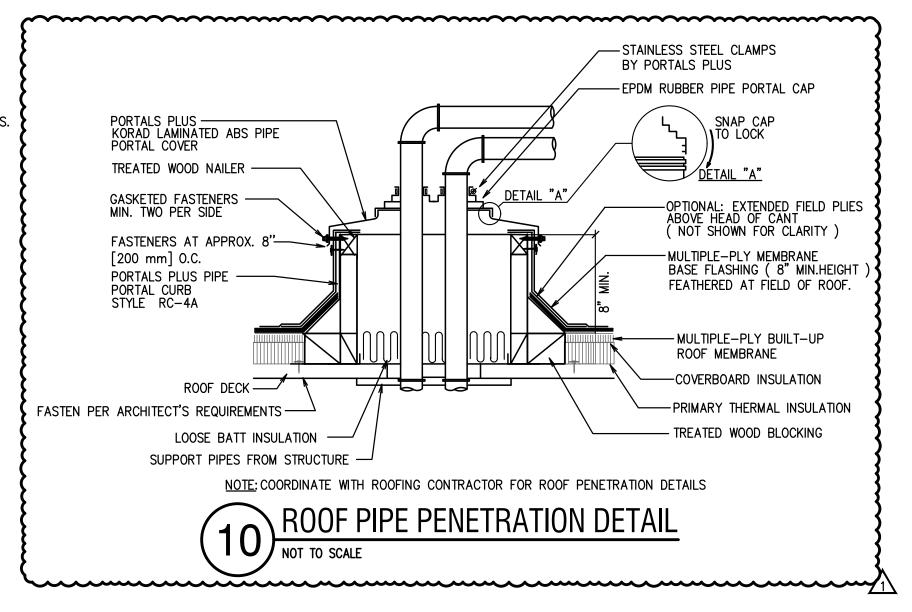
NOT TO SCALE







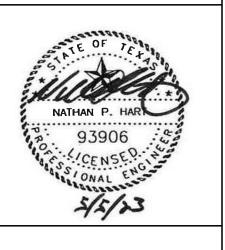




Consulting Engineers
12001 N Central Expy
Suite 1100
Dallas, TX 75243

RVA

TX Firm # F-2176
(972) 788-4222
Project 22146.00



2023.04.28

ISSUES

 01 ISSUE FOR CONSTRUCTION
 2023.04.28

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 01 ADDENDUM 01
 2023.05.05



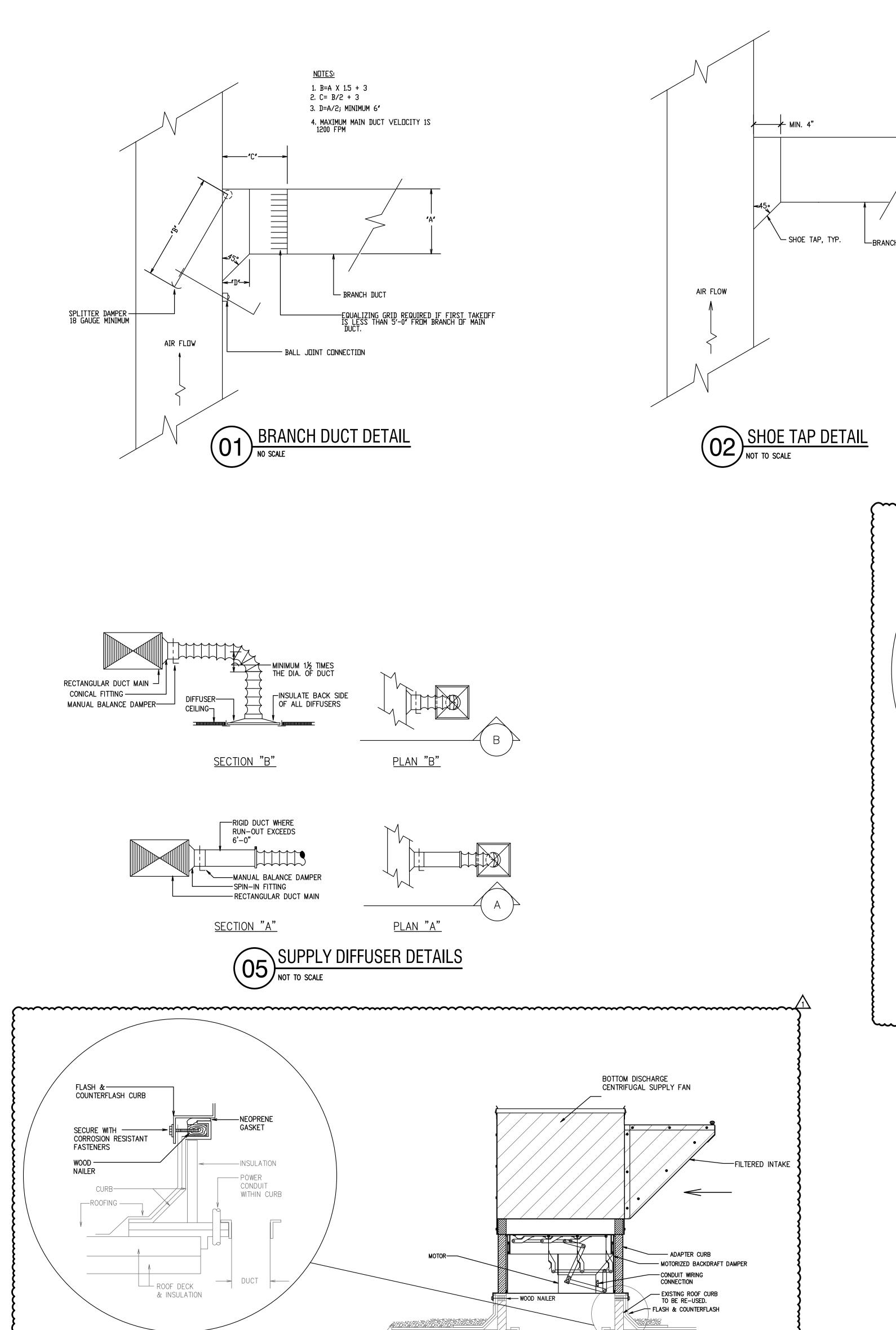


AC REPLACEMENT
MIDLOTHIAN I.S.D.

DETAILS -MECHANICAL & PLUMBING

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

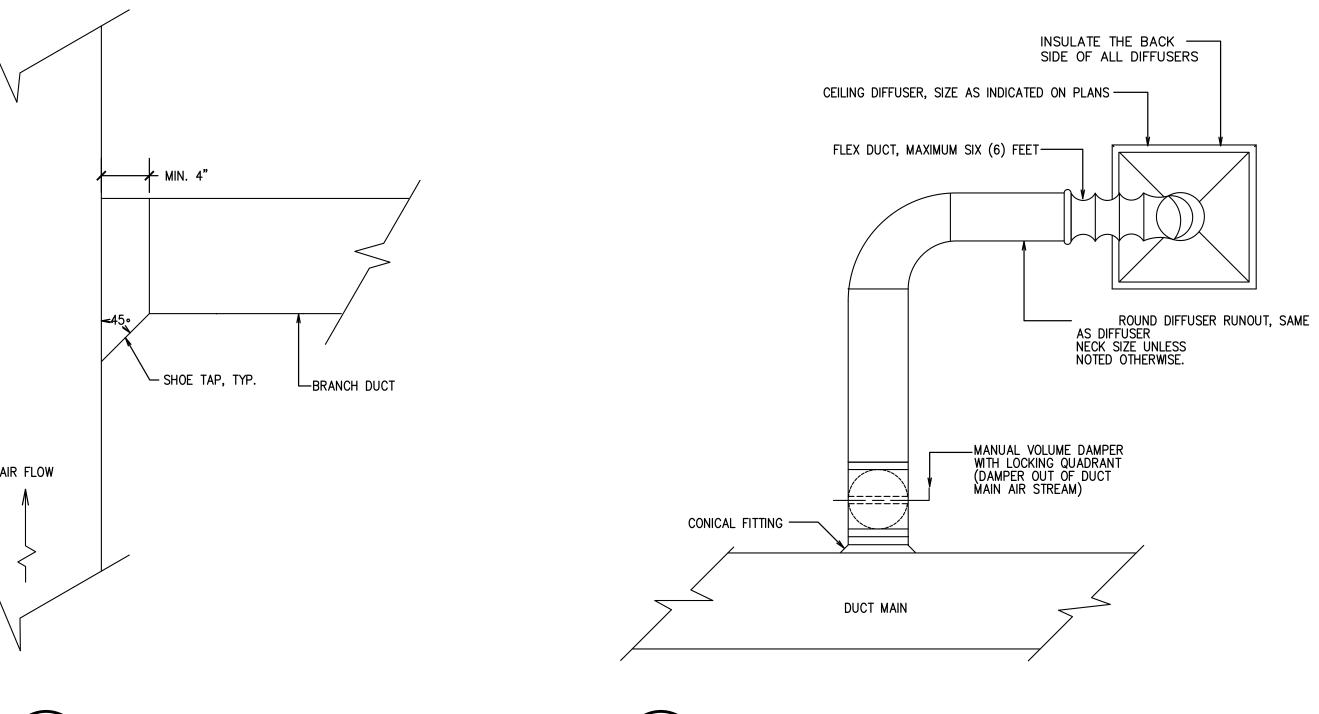
MP2.01



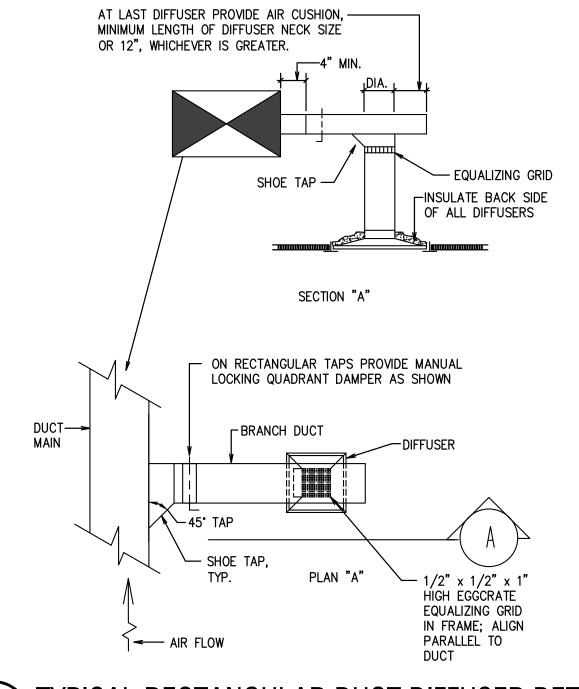
EXISTING ROOFING MATERIAL

DUCT: TRANSITION TO FULL SIZE OF CURB OPENING; SEE FLOOR PLANS FOR SIZE.

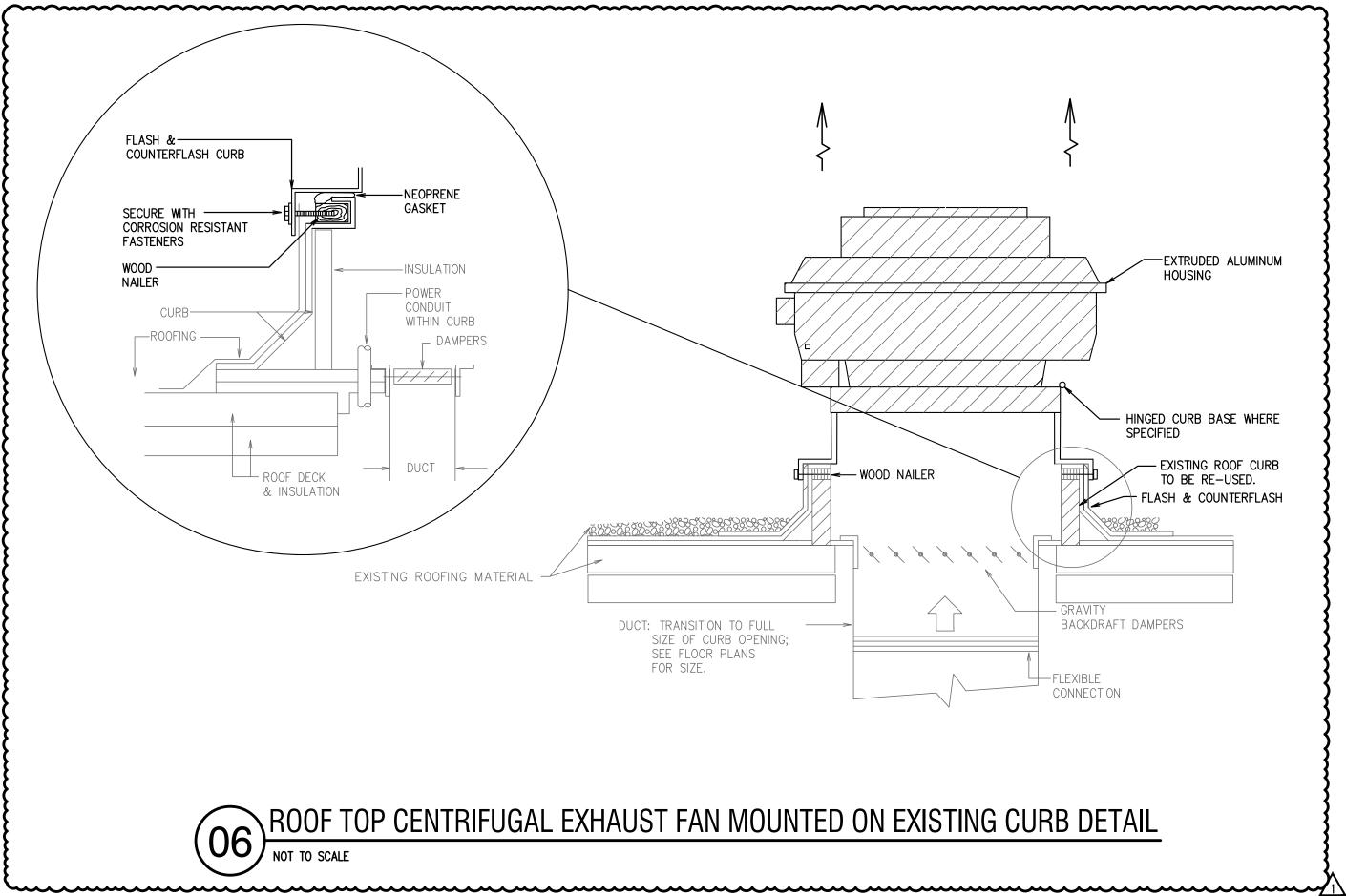
ROOF TOP CENTRIFUGAL SUPPLY FAN MOUNTED ON EXISTING CURB DETAIL

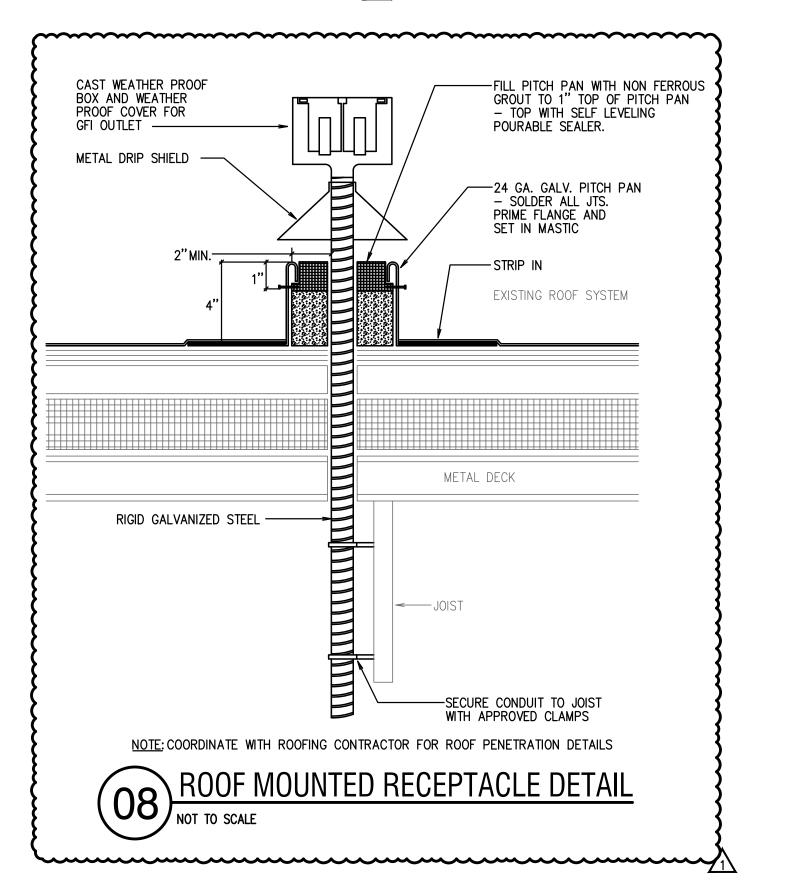






TYPICAL RECTANGULAR DUCT DIFFUSER DETAILS





Consulting Engineers 12001 N Central Expy TX Firm #F-2176 Suite 1100 (972) 788-4222 Dallas, TX 75243 Project 22146.00







2023.04.28

ISS	SUES	
01	ISSUE FOR CONSTRUCTION	2023.04.28
RE	VISIONS	
01	ADDENDUM 01	2023.05.05





DETAILS -MECHANICAL & ELECTRICAL

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

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ME2.02

	III SCIILL	/OLL										~~~~	******																		
DESIGNATION	RTU-KITCHEN	RTU-STAGE	RTU-CAFE-NW	RTU-CAFE-SW/ CAFE-SE/ CAFE-NE	RTU-WORKROOM		RTU-GYM-NE/ GYM-NW /GYM-SE /GYM-SW	RTU-72D	RTU-75N & 75S	RTU-79	RTU-MUSIC	RTU-LIB-E & W	RTU-LIB-N & 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	RI
SERVING	KITCHEN	STAGE	CAFETORIUM	CAFETORIUM	WORKROOM	ART	GYMNASIUM	GYM OFFICES	CORRIDORS	SPEC. ED.	MUSIC	LIBRARY	LIBRARY	CORRIDOR	CORRIDOR	CORRIDOR	CLASSROOMS/ CONFERENCE RM.	CLASSROOMS	E.S.L.	LAB	PRE-K./KINDERG ARTEN/PPCD/CBI	CLASSROOMS	CORRIDOR	KINDERGARTEN & OFFICE	KINDERGARTEN & OFFICE	CORRIDORS	CLASSROOMS	CLASSROOMS	PRINCIPAL	CONF	A/
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	-
MODEL NO.	YHJ090	YHC067	YHJ090	YHC067	YHC047	YHC047	YHC067	YHC037	YHC047	YHC047	YHC047	YHC047	YHC067	4YCZ5036	YHC037	YHC067	YHC037	YHC047	4YCZ5024	4YCZ5036	YHC047	YHC037	4YCZ5024	YHC047	YHC047	YHC047	YHC037	YHC037	YHC067	YHJ090	4Y
MAXIMUM WEIGHT, LBS.	1070	1000	1070	1000	980	980	1000	770	980	980	980	980	1000	400	770	1000	770	980	370	400	980	770	370	980	980	980	770	770	1000	1070	
NOMINAL CAPACITY	7.5	5	7.5	5	4	4	5	3	4	4	4	4	5	3	3	5	3	4	2	3	4	3	2	4	4	4	3	3	5	5	
														}																	
SUPPLY AIR, CFM	3000	1750	2700	2000	1600	1400	1750	1100	1600	1400	1400	1400	1750	1200	1200	2000	1200	1400	800	1200	1400	1200	800	1400	1440	1400	1100	1150	2000	2000	
MIN. MIN./MIN. MAX./MAX. DUTSIDE 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	250/500/1750	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	
EXTERNAL STATIC PRESSURE, N. 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	
MAXIMUM FAN RPM	1190	910	1190	980	870	830	910	850	870	830	830	830	910	} _	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	1
			'				<u>'</u>						}	}																	
COIL ENTERING AIR, DB/WB —	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	82.0/65.6	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	
OIL 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	57.0/56.0	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	1
IBIENT 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	1
TAL 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	52.61	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	\(\)
ENSIBLE 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	47.61	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	L
AX. 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	_
AX. 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	+
STAGES OF COOLING SEER/EER @ 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	17.2/13.0	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	
SELITY ELIX & AIXI CONDITIONS	10.0/12.1	17.2/10.0	10.0/12.1	17.2/10.0	17.5715.0	17.5715.0	17.2/15.0	17.57 15.0	17.5715.0	17.5715.0	17.5715.0	17.5715.0	17.2/13.0	13.0/11.0	17.5715.0	17.5715.0	17.5715.0	17.5715.0	13.0/11.0	13.0711.0	17.5/15.0	17.5/15.0	13.0711.0	17.5 / 15.0	17.5 / 15.0	17.5/15.0	17.5/15.0	17.3713.0	17.2/10.0	17.2713.0	
INTERING AIR DB — F*	53.3	60.0	55.0	55.0	63.8	55.7	55.7	56.4	65.6	59.3	56.4	59.6	55.7	55.6	63.8	52.9	55.4	57.5	60.6	59.6	54.3	55.4	63.8	48.4	53.4	59.9	51.0	51.9	61.3	55.0	γ
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	
YPE 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	S N
EATING INPUT, MBTUH	105.0/150.0	80.0	105.0/150.0	80.0	80.0	80.0	80.0	60.0	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	60.0	80	150	
EATING OUTPUT, MBTUH	85.0/121.5	64.0	85.0/121.5	64.0	64.0	64.0	64.0	48.0	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	48.0	64	121.5	
TAGES OF CONTROL	2 2	1	2 4	1	1	1	1	1	1 202	1	1	1 200	1	2	1	1 200	1	1	2	2	1	1	2	1 202	1	1	1 227	1	1	1	
INIMUM AFUE EFF. %	81%	80%	81%	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%	
			400 /7	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	208/1	208/1	460/3	460/3	208/1	460/3	460/3	460/3	460/3	460/3	460/3	460/3	\top
OLTS/PHASE	460/3	460/3	4 60/3	, -	1 ' '	1 , =	1 ' · · · · · · · · · · · · · · · · · ·	· =	· 1	1 , =	, -	, -	1 ') / '		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	+
	460/3	460/3 15.0	460/3 21.0	15.0	14.0	14.0	15.0	12.0	14.0	14.0	14.0	14.0	15.0	22.9	12.0	15.0	12.0			i	1	i l		1	1	Ī	,				
IN. CIRCUIT AMPS REQUIRED	21.0	15.0	21.0	15.0			15.0			14.0			15.0	8	12.0				30.0	35.0	20.0	15.0	30.0	20.0	20.0	20.0	15.0	15.0	20.0	20.0	+
N. CIRCUIT AMPS REQUIRED		•		15.0	14.0 20.0	20.0	15.0 20.0	12.0 15.0	14.0 20.0	20.0	14.0 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	
N. CIRCUIT AMPS REQUIRED AX. OVERCURRENT OTECTION—AMPS	21.0	15.0 20.0	21.0 25.0	20.0	20.0	20.0	20.0	15.0	20.0	<u> </u>	20.0	20.0	20.0	35.0	15.0	20.0	15.0	20.0						<u> </u>	I	<u> </u>		<u> </u>			<u> </u>
N. CIRCUIT AMPS REQUIRED X. OVERCURRENT OTECTION—AMPS ICKNESS/DEPTH — TYPE	21.0	15.0 20.0	21.0			20.0	20.0	15.0 2" - PLEATED	20.0	<u> </u>	20.0	20.0	}	35.0	15.0						20.0 2" – PLEATED			<u> </u>	20.0 2" - PLEATED	2" — PLEATED		<u> </u>	20.0 2" - PLEATED		
IIN. CIRCUIT AMPS REQUIRED IAX. OVERCURRENT ROTECTION—AMPS HICKNESS/DEPTH — TYPE	21.0	15.0 20.0	21.0 25.0	20.0	20.0	20.0	20.0	15.0	20.0	<u> </u>	20.0	20.0	20.0	35.0	15.0	20.0	15.0	20.0						<u> </u>	I	<u> </u>		<u> </u>			D 2
VOLTS/PHASE MIN. CIRCUIT AMPS REQUIRED MAX. OVERCURRENT PROTECTION—AMPS THICKNESS/DEPTH — TYPE MAX. A.P.D. CLEAN, IN. W.G. MANUFACTURER/MODEL NO.	21.0 25.0 2" - PLEATED 0.4 CAMFILL FARR/	15.0 20.0	21.0 25.0	20.0	20.0 2" - PLEATED 0.4 CAMFILL FARR/	20.0 2" - PLEATED 0.4 CAMFILL FARR/	20.0 2" - PLEATED 0.4	15.0 2" - PLEATED 0.4 CAMFILL FARR/	20.0 2" - PLEATED 0.4 CAMFILL FARR/	2" - PLEATED 0.4 CAMFILL FARR/	20.0 2" - PLEATED 0.4 CAMFILL FARR/	20.0 2" - PLEATED 0.4 CAMFILL FARR/	20.0	35.0 2" — PLEATED 0.4 CAMFILL FARR/	15.0 2" - PLEATED 0.4 CAMFILL FARR/	20.0 2" - PLEATED 0.4 CAMFILL FARR/	15.0	20.0 2" - PLEATED 0.4 CAMFILL FARR/		2" - PLEATED 0.4 CAMFILL FARR/	2" - PLEATED 0.4 CAMFILL FARR/	2" - PLEATED 0.4 CAMFILL FARR/	2" - PLEATED 0.4 CAMFILL FARR/	2" - PLEATED 0.4 CAMFILL FARR/	2" - PLEATED 0.4 CAMFILL FARR/	2" — PLEATED 0.4 CAMFILL FARR/	2" — PLEATED	2" - PLEATED 0.4 CAMFILL FARR/	2" — PLEATED 0.4 CAMFILL FARR/	2" — PLEATED 0.4 CAMFILL FARR	R/ CAM

1-7,10,11 8 (RTU-LIB-N & LIB-W) 1-6-8,10,11 2,4,6,9-11,13 1-6,10,11 1-6,8,10,11 1-6,8,10,11 1-6,8,10,11 1-6,8,10,11

207)

SELECT AT 300 DEG. F

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.

FAN SCHEDULE

COMMENTS

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 COVERR FACE TO ALLOW FOR FUTURE ADJUSTMENTS AS NEEDED.

12. THREE OUTSIDE AIR VALUES ARE FOR KITCHEN HOOD MAKE-UP AIR. 13. PROVIDE CONTRACTOR FURNISHED, UNIT MOUNTED, NON-FUSED DISCONNECT SWITCH

EF-RR-100E/100F/ 200E/200F/400E/ 400F/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/306B/307B/ 308B/309B/ 500-B-2/54A/68B /79C/87C/97B/ C107B	EF-RR-B111	EF-MECH-B112	EF-RR-B109/304C/ 305C	KEF-KITCHEN	SF-KIT
EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	KITCHEN EXHAUST	MAKE-UP
TOILETS	CUST./STORAGE	DARK RM.	CUST./LOUNGE/ TOILETS	ART	CUST.	TOILETS	TOILETS	TOILETS/CUST.	TOILETS	TOILETS	MECH	TOILETS	KITCHEN HOOD	KITCHEN HOOD
R00F	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	CEILING	CEILING	ROOF	ROOF
DOWNBLAST	DOWNBLAST	DOWNBLAST	DOWNBLAST	DOWNBLAST	DOWNBLAST	UPBLAST	UPBLAST	DOWNBLAST	DOWNBLAST	DOWNBLAST	INLINE	INLINE	UPBLAST	CENTRIFUGAL
450	275	125	150	750	110	100	275	50	75	600	50	75	3780	1500
0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.5	0.125	0.125	1.0	0.75
BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	DIRECT	DIRECT	BELT	BELT
12	13.5	12	13.5	12	12	12	13.5	12	12	13.5	-	-	30	10
900	1050	980	930	930	940	920	820	790	830	1170	560	720	940	920
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
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
COOK 120 ACEB OR91	COOK 135 ACEB 0R70	COOK 120 ACEB OR60	COOK 135 ACEB OR60	COOK 120 ACEB OR92	COOK 120 ACEB OR60	COOK 120 ACRUB OR60	COOK 135 ACRUB OR80	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
EMS	WALL SWITCH	WALL SWITCH	WALL SWITCH	WALL SWITCH	WALL SWITCH	WALL SWITCH	WALL SWITCH	WALL SWITCH	WALL SWITCH	EMS	WALL SWITCH	WALL SWITCH	HOOD/EMS/ INFRARED SENSOR	HOOD/KEF-KITCHEN
	200E/200F/400E/ 400F/500E/500F EXHAUST TOILETS ROOF DOWNBLAST 450 0.25 BELT 12 900 1/4 120/1 COOK 120 ACEB OR91	200E/200F/400E/ 400F/500E/500F EXHAUST TOILETS CUST./STORAGE ROOF DOWNBLAST DOWNBLAST 450 275 0.25 BELT 12 13.5 900 1/4 120/1 COOK 120 ACEB OR91 200C/400C/STOR-5 00B 200C/400C/STOR-5 00B	200E/200F/400E/ 400F/500E/500F 200C/400C/STOR-5 00B EF-DARK-90B EXHAUST EXHAUST EXHAUST TOILETS CUST./STORAGE DARK RM. ROOF ROOF ROOF DOWNBLAST DOWNBLAST DOWNBLAST 450 275 125 0.25 0.25 0.25 BELT BELT BELT 12 13.5 12 900 1050 980 1/4 1/4 1/4 120/1 120/1 120/1 COOK 120 ACEB OR91 COOK 135 ACEB OR60 COOK 120 ACEB OR60	200E/200F/400E/ 400F/500E/500F 200C/400C/STOR-5 00B EF-DARK-90B LOUNGE-68C/ RR-64A/ RR-65A EXHAUST EXHAUST EXHAUST EXHAUST TOILETS CUST./STORAGE DARK RM. CUST./LOUNGE/ TOILETS ROOF ROOF ROOF ROOF DOWNBLAST DOWNBLAST DOWNBLAST DOWNBLAST 450 275 125 150 0.25 0.25 0.25 0.25 BELT BELT BELT BELT 12 13.5 12 13.5 900 1050 980 930 1/4 1/4 1/4 1/4 120/1 120/1 120/1 120/1 COOK 120 ACEB OR91 COOK 135 ACEB OR60 COOK 135 ACEB OR60 COOK 135 ACEB OR60	200E/200F/400E/	200E/200F/400E/	200E/200F/400E/	200E/200F/400E/	200E/200F/400E/	FF-RR-100E/100F/ 200E/200F/400E/ 200E/200F/400E/ 200E/200F/400E/ 200E/200F/400E/ 200E/200F/400E/ 200E/200F/400E/ 200E/200F/400E/ 200E/200E/ 200E/200E/ 200E/200E/ 200E/200E/	FF-RR-100E/100F/ 200E/200F 400E/200F 400E/200F 400E/200F 400E/500F 200E 200E/200F 400E/500F 200E 200E/200F 400E/500F 200E 200E/200F 400E/500E 200E/200F 400E/500E 200E/200F 400E/500E 200E/200E/200E/200E/200E/200E/200E/2	EF-RR-100E/100F/ 200E/200F 200E/200F	FFR-DIST-100C/ 200C/900F/900F/ 400F/900F/900F/900F/ 400F/900F/900F/900F/900F/ 400F/900F/900F/900F/900F/ 400F/900F/900F/900F/900F/900F/900F/ 400F/900F/900F/900F/900F/900F/900F/900F/	EF-RR-1006/1006/ 2006/2006/2006/ 2006/2006/2006/2006/ 2006/2006/2006/ 2006/2006/2006/ 2006/2006/2006/ 2006/2006/2006/ 2006/2006/2006/ 2006/2006/2006/2006/ 2006/2006/2006/2006/ 2006/2006/2006/2006/ 2006/2006/2006/2006/ 2006/2006/2006/2006/2006/ 2006/2006/2006/2006/2006/2006/2006/ 2006/2006/2006/2006/2006/2006/2006/2006

1. WALL SWITCHES: REFER TO MOTOR STARTER SWITCHES TO BE FURNISHED UNDER DIVISION 23 AND INSTALLED UNDER DIVISION 26 (RECESSED IN WALL).
2. EMS: FAN TO BE CONTROLLED BY ENERGY MANAGEMENT SYSTEM.

3. MOTOR STARTER CAN SUBSTITUTE AS FAN DISCONNECT WHERE NOT WALL MOUNTED AND LOCATED AT FAN MOTOR. A DISCONNECT CANNOT SUBSTITUTE FOR A MOTOR STARTER. 4. DIRECT DRIVE FANS TO HAVE ECM CONTROLLER.

5. ALL FANS SHALL BE INTERLOCKED WITH SIMILAR CONTROLS METHOD AS EXISTING (EMS/WALL SWITCH). IN CASE THE EXISTING CONTROLS CANNOT BE RE-USED, PROVIDE NEW CONTROLS AS NOTED.

GRILL	ES, REGISTERS AND	DIFFUSERS							
DESIG.	TYPE	MOUNTING TYPE	MATERIAL	FINISH	MAX. N.C. LVL.	OPPOSED DAMPER BLADE	EQUALIZING GRID	MFG. / MODEL	DESCRIPTION/REMARKS
A	RETURN GRILLE	SURFACE OR LAY-IN	ALUMINUM	WHITE	30	NO	NO	TITUS 50F	1/2"x1/2"x1" EGG CRATE WITH FRAMED BORDER. DO NOT STACK 1/2" HIGH GRILLES
В	SUPPLY DIFFUSER — LOUVERED	SURFACE OR LAY-IN	STEEL	WHITE	30	NO	NO	TITUS TMS	24"x24" FACE

——CD——	CONDENSATE DRAIN
——AD——	AUXILIARY DRAIN LINE
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
	SLOPE DOWN IN DIRECTION OF ARROW
	RISE AND DROP IN PIPIING
——	FLOW IN DIRECTION OF ARROW
•	CONNECT TO EXISTING
	EXISTING WORK TO REMAIN
	NEW WORK
	DEMOLITION WORK
Ф	THERMOSTAT/TEMPERATURE SENSOR
Ф	HUMIDITY SENSOR
©	CARBON DIOXIDE SENSOR
M	CARBON MONOXIDE SENSOR
S	DUCT SMOKE DETECTOR
\$	WALL SWITCH
\$ P	WALL SWITCH WITH PUSHBUTTON
—	SUPPLY AIR ARROW
← ^-	RETURN AIR ARROW
R	RISE IN DUCT
D	DROP IN DUCT
	SUPPLY DUCT
	RETURN OR EXHAUST DUCT
	MANUAL DAMPER
<u>M</u>	MOTORIZED DAMPER
F.D.	FIRE DAMPER
F.S.D	FIRE/SMOKE DAMPER

(RTU-402,407, 407,408,502, 503,507,508)

2,4,6,9-11,13

1-6,10,11

1-6,10,11

1-6,8,10,11 (2,4,6,9-11,13 2,4,6,9-11,13 1-6,8,10,11

PLUMBING LEGEND							
SYMBOL	DESCRIPTION						
	DOMESTIC COLD WATER (CW)						
—— G——	GAS PIPE						
D	DRAIN, INDIRECT						
	EXISTING TO REMAIN						
* * *	EXISTING TO BE REMOVED						
CH5///SH->	GAS METER						
区	ROOF PIPE SUPPORT						
ı¥ī	PLUG VALVE						
	CAP						
	DIRECTION OF SLOPE						
	DIRECTION OF FLOW						
—+O—+>	RISE & DROP IN PIPING						
C.O.	CLEANOUT						
	BALL VALVE						
	CHECK VALVE						
——II-——	UNION						
,¶,SA	SHOCK ARRESTOR						
	GAUGE COCK						
	PRESSURE GAUGE W/GAUGE COCK						
<u> </u>	THERMOMETER						
+	NON-FREEZE ROOF HYDRANT						
•	NEW CONNECTION TO EXISTING						
СО	CLEAN OUT						
WCO	WALL CLEAN OUT						
VTR	VENT THROUGH ROOF						
(E)	EXISTING UTILITIES						
NOTE: NOT ALL S	SYMBOLS SHOWN ARE NECESSARILY USED						

1-6,10,11

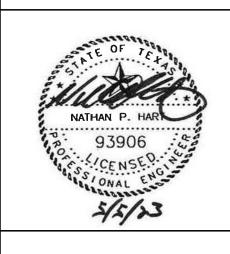
1-6,10,11

1-6,10,11

Consulting Engineers

12001 N Central Expy
Suite 1100
Dallas, TX 75243

TX Firm # F-2176
(972) 788-4222
Project 22146.00



2023.04.28

ISS	SUES	
01	ISSUE FOR CONSTRUCTION	2023.04.2
RE	VISIONS	
01	ADDENDUM 01	2023.05.0



1-6,8,10,11 2,4,6,9-11,13



SCHEDULES & LEGEND - MECHANICAL & **PLUMBING**

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

	PA	NELBOARD: P1 - SE	CTION 1 (EXISTIN	lG)]		
L-L VOLTAGE:	Іскт	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A	Π
480 VOLTS	1	LOAD DESCRIPTION	EXISTING WIRE &	DIXIX	LIG	INCIT	3324	_
L-N VOLTAGE:	3	RTU-104	CONDUIT	15A/3P			3324	1
277 VOLTS	5		CONDOIT	13/7/31			3324	I
CONNECTION	7		EXISTING WIRE &				4155	
TYPE:	9	RTU-100	CONDUIT	20A/3P			4155	
3 PHASE,	11		00112011	20, 1, 31			4155	1
4 WIRE	13		EXISTING WIRE &				3324	
PLUS GND	15	RTU-101	CONDUIT	15A/3P			3324	
MAINS:	17		00112011	13, 4, 31			3324	1
600A MLO	19		EXISTING WIRE &				3324	
MOUNTING:	21	RTU-102	CONDUIT	15A/3P			3324	
SURFACE	23		CONDOIL	15/1/51			3324	
AIC RATING:	25						3878	
EXISTING	27	RTU-103	EXISTING WIRE &	20A/3P			3878	
	29		CONDUIT				3878	
	-		33,1231.				3070	A
								В
								C
								A
								В
	2		EXISTING WIRE &				3878	Ā
		RTU-204	CONDUIT	20A/3P			3878	
	6		33.1231.	207,731			3878	1
	8		EXISTING WIRE &				4155	
	10	RTU-200	CONDUIT	20A/3P			4155	
	12						4155	
	14		EXISTING WIRE &				3324	
	16	RTU-201	CONDUIT	20A/3P			3324	
	18						3324	
	20		EXISTING WIRE &				3324	
	22	RTU-202	CONDUIT	15A/3P			3324	
	24			-07 ,7 01			3324	
	26		EXISTING WIRE &				3324	
	28	RTU-203	CONDUIT	15A/3P			3324	
	30			, 5.			3324	I
								A
								В
								C
								A
								В
								c
GENERAL NOTES	<u>. </u>		SUB-FEED PANE	LBOARD			13850	_
		IT SIZES SHALL BE	CONNECTE				13850	
		NLESS OTHERWISE NOTED.		JMMARY	1		13850	1
2. PROVIDE FEED			TOTALS PER TYPE (149.58	_
			LOADS PER PHASE:	49.9	kVA	180.0	Amps	Α
				49.9	kVA	180.0	Amps	В
				49.9	kVA	1	Amps	C
			PANEL TOTALS					Ī
			PANEL TOTALS	149.6	KVA	180.0	AMPS	

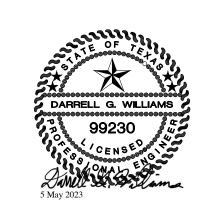
	FA	NELBOARD: P1 - SEC	11014 5 (EVI211)	149)		J		
L-L VOLTAGE:	СКТ	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A	Τ
480 VOLTS	31	SPACE						/
L-N VOLTAGE:	33	SPACE						H
277 VOLTS	35	SPACE						(
CONNECTION	37							/
TYPE:	39	EXISTING LOAD		20A/3P				E
3 PHASE,	41							(
4 WIRE	43							/
PLUS GND	45	EXISTING LOAD		20A/3P				[
MAINS:	47							(
600A MLO	49		EXISTING WIRE &				3324	
MOUNTING:	51	RTU-106	CONDUIT	15A/3P			3324	
SURFACE	53						3324	
AIC RATING:	55		EXISTING WIRE &				3324	
EXISTING	57	RTU-105	CONDUIT	15A/3P			3324	· E
	59						3324	- (
								/
								[
								(
								/
								6
								4
		SPACE						/
		SPACE						[
	36	SPACE						(
	38	EV/70=7110 1 0 4 B						1
	40	EXISTING LOAD		20A/3P				[
	42							(
	44							1
	46	EXISTING LOAD		20A/3P				ŀ
	48							(
	50		EXISTING WIRE &				3324	
	52	RTU-206	CONDUIT	15A/3P			3324	
	54						3324	
	56		EXISTING WIRE &				3878	
	58	RTU-205	CONDUIT	20A/3P			3878	
	60						3878	
								1
								1
								1
	<u> </u>					1	1	10
SENERAL NOTES			SUB-FEED PANE					1
		IT SIZES SHALL BE	CONNECT					E
		NLESS OTHERWISE NOTED.		UMMARY		<u> </u>		<u> (</u>
2. PROVIDE FEED) THR	U LUGS	TOTALS PER TYPE (1.37.6	FA A	41.55	十
			LOADS PER PHASE:		kVA	50.0	Amps	/
					kVA	50.0	Amps	E
				13.9	kVA	50.0	Amps	<u> </u>

	PA	NELBOARD: L1 SECT 1	(EXISTING)]		
L-L VOLTAGE:	Скт	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A	Τ
208 VOLTS	1	ROOF RECEPTACLES	2#12,1#12G-3/4"C.	20A/1P		1440		T,
L-N VOLTAGE:	1 3	SPACE						اا
120 VOLTS	5/	SPACE	$\sim\sim\sim$	~~~	\sim	\sim	~~	Į,
CONNECTION	$\sqrt{7}$	SPACE						
TYPE:	9	EF-RR-100E & EF-RR-100F	EXISTING	20A/1P			1056	
3 PHASE,	N.	EXISTING EWC	2/13/11/0	20A/1P			1000	L
4 WIRE	13	EXISTING EW		20A/1P				L
PLUS GND	15	SPACE						
MAINS:	1 17	EXISTING RECEPTACLES		20A/1P				L
400A MCB	19	EXISTING RECEPTACLES		20A/1P				
MOUNTING:	21	EXISTING RECEPTACLES		20A/1P				ľí
SURFACE	23	EXISTING RECEPTACLES		20A/1P				L
AIC RATING:	25	EXISTING RECEPTACLES		20A/1P	1			
10,000 AMPS	27	EXISTING RECEPTACLES		20A/1P				ľ
	29	EXISTING RECEPTS & EF-CUST-200C	EXISTING	20A/1P		10080	528	1
	31	EXISTING RECEPTACLES	LXISTING	20A/1P		10000	520	
	33	EXISTING RECEPTACLES		20A/1P				ľ
	35	EXISTING RECEITABLES		20A/1P				Ľ
	37	EXISTING ESAIT LIGHTS		20A/1P				
	39	RTU-107	2#10,1#10G-3/4"C.	30A/2P			2184	
	41	107	2#10,1#10G-3/4 C.	30A/2F			2184	
	2	ROOF RECEPTACLES		20A/1P			2104	Ť
	4	SPACE		ZUA/ 1P				ľ
	6	SPACE						Ι,
	8	SPACE						
	10	EXISTING EWC		20A/1P				<u> </u>
	12	EF-RR-200F & EF-RR-200E		20A/1P			1056	
	14	EXISTNG EWC		20A/1P			1030	
	16	SPACE		20A/1P				Ľ
		SPACE						ן !
	18 20	EXISTING RECEPTACLES		204/1D				ľ
				20A/1P				[
	22	EXISTING RECEPTACLES EXISTING RECEPTACLES		20A/1P				
	24	EXISTING RECEPTACLES EXISTING RECEPTACLES		20A/1P				۱'
	26			20A/1P				
	28	EXISTING RECEPTACLES		20A/1P				
	30	EXISTING RECEPTACLES		20A/1P	1			۱'
	32	EXISTING RECEPTACLES		20A/1P				1.
	34	EXISTING RECEPTACLES		20A/1P				ן !
	36	EXISTING RECEPTACLES		20A/1P				1
	38	EXISTING RECEPTACLES	0 "40 4 "400 0 11"	20A/1P				1
	40	RTU-108	2#10,1#10G-3/4"C.	15A/2P			1248	
	42				<u> </u>	<u> </u>	1248	1 (
GENERAL NOTES	_		SUB-FEED PANE					1
		IT SIZES SHALL BE	CONNECT					ו
• • •		INLESS OTHERWISE NOTED.		JMMARY	<u> </u>			1
2. PROVIDE FEEI	THR	RU LUGS	TOTALS PER TYPE (125	11.52		Ť
			LOADS PER PHASE:		kVA		Amps	1
				1	kVA		Amps	
				15.1	kVA	125.8	Amps	1

	PA	NELBOARD: P2 - SEC	TION 1 (EXISTIN	NG)				
L-L VOLTAGE:	СКТ	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A	
480 VOLTS	1		EXISTING WIRE &				3324	Α
L-N VOLTAGE:	3	RTU-509	CONDUIT	15A/3P			3324	В
277 VOLTS	5						3324	C
CONNECTION	7		EXISTING WIRE &				4155	
TYPE:	9	RTU-500	CONDUIT	20A/3P			4155	
3 PHASE,	11						4155	
4 WIRE	13		EXISTING WIRE &				3324	
PLUS GND	15	RTU-508	CONDUIT	15A/3P			3324	
MAINS:	1	10-300	CONDOIT	ISAJSF				1
	17		EVICTING WIDE 0				3324	
600A MLO	19	DTU 507	EXISTING WIRE &	4.54 (0.5)			3324	
MOUNTING:	21	RTU-507	CONDUIT	15A/3P			3324	
SURFACE	23						3324	
AIC RATING:	25						3324	
EXISTING	27	RTU-503	EXISTING WIRE &	15A/3P			3324	
	29		CONDUIT				3324	C
								Α
								В
								C
								A
								В
								ام
	2		EXISTING WIRE &				3324	A
		RTU-502	CONDUIT	154/20				
	4		CONDOLL	15A/3P			3324	
	6		EVICTING MIDE C				3324	1
	8	DTU 504	EXISTING WIRE &	4.54 (0.5			3324	1
	10	RTU-501	CONDUIT	15A/3P			3324	
	12						3324	1
	14		EXISTING WIRE &				3324	A
	16	RTU-409	CONDUIT	15A/3P			3324	В
	18						3324	C
	20		EXISTING WIRE &				4155	Α
	22	RTU-400	CONDUIT	20A/3P			4155	В
	24						4155	
	26		EXISTING WIRE &				3324	1
	28	RTU-401	CONDUIT	15A/3P			3324	
	30		CONDOIL	124/25				1
	J 30						3324	1 _ 1
								A
								В
								C
								A
								В
								C
GENERAL NOTES			SUB-FEED PANE	LBOARD			13296	Α
1. ALL WIRE & CO	ONDU	IT SIZES SHALL BE	CONNECTI	ED LOAD			13296	1
		NLESS OTHERWISE NOTED.		JMMARY			13296	
2. PROVIDE FEED			TOTALS PER TYPE (144.59	_
			LOADS PER PHASE:	48.2	kVΔ	174.0	Amps	Α
			LUADO I EN I HASE.		kVA	174.0	Amps	В
				48.2			=	1
			PANEL TOTALS	40.4	KVA		Amps AMPS	<u> C</u>

	PA	NELBOARD: P2 - SEC	TION 2 (EXISTIN	IG)				
L VOLTAGE:	СКТ	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A	
480 VOLTS	31	SPACE						Α
-N VOLTAGE:	33	SPACE						В
277 VOLTS	35	SPACE						c
ONNECTION	37		EXISTING WIRE &				3324	Α
YPE:	39	RTU-406	CONDUIT	15A/3P			3324	В
3 PHASE,	41						3324	C
4 WIRE	43		EXISTING WIRE &				3324	Α
PLUS GND	45	RTU-407	CONDUIT	15A/3P			3324	В
1AINS:	47						3324	C
600A MLO	49							A
40UNTING:	51			20A/3P				В
URFACE	53							C
AIC RATING:	55							A
EXISTING	57			20A/3P				В
	59							C
								A
								В
								C
								A
								В
		SPACE						C
	32	SPACE						A
								В
	36 38	SPACE	EVICTING MIDE 9				2224	C
	40	RTU-402	EXISTING WIRE &	1 E A /2 D			3324	
		K10-402	CONDUIT	15A/3P			3324	
	42		EVICTING MIDE 9				3324	
	44 46	RTU-403	EXISTING WIRE & CONDUIT	1 E A /2 D			3324	l .
	48	K10-403	CONDOTT	15A/3P			3324	
	50						3324	
				204/20				A
	52 54			20A/3P				В
	56							C
	58			30 V /3D				A
	60			20A/3P				B
	00							C
								А В
								C
								A B
								B C
NERAL NOTES	<u>. </u>		SUB-FEED PANE	LBOARD				A
		IT SIZES SHALL BE	CONNECTE					В
		INLESS OTHERWISE NOTED.		IMMARY				C
PROVIDE FEED			TOTALS PER TYPE (39.89	
			LOADS PER PHASE:	13.3	kVA	48.0	Amps	Α
				13.3	kVA	48.0	Amps	В
				13.3	kVA	48.0	Amps	<u>C</u>
			PANEL TOTALS	39.9	KVA	48.0	AMPS	

	PA	NELBOARD: L2 (EXISTI	NG)					
	Love	LOAD DECORPTION	WIDE & CONDUIT	DICE	1.70	5 CD-	N40 A	
L-L VOLTAGE:		LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A	_
208 VOLTS	$\frac{1}{2}$	ROOF RECEPTACLES	2#12,1#12G-3/4"C.	20A/1P		1260		A
-N VOLTAGE:	3	ROOF RECEPTACLES	2#12,1#12G-3/4"C.	20A/1P		720		В
120 VOLTS	5	EXISTING LOAD		20A/1P				
CONNECTION	7	EXISTING LOAD		20A/1P				Α
TYPE:	9	EF-RR-400E & EF-RR-400F	EXISTING WIRE & CONDUIT	[20A/1P			1056	В
3 PHASE,	11	EXISTING EWC		[20A/1P				C
4 WIRE	[13	EXISTING EWC		[20A/1P				Α
PLUS GND	[15	EXISTING LOAD		[20A/1P				В
MAINS:	17	EXISTNG LOAD		20A/1P				C
400A MCB	19	EXISTING RECEPTACLES		20A/1P				Α
MOUNTING:	21	EXISTING RECEPTACLES	<u> </u>	20A/1P				В
SURFACE	23	EXISTING RECEPTACLES	<u> </u>	20A/1P				c
AIC RATING:	25	EXISTING RECEPTACLES	7	20A/1P				A
10,000 AMPS	27	EXISTING RECEPTACLES	7	20A/1P				В
	29	EXISTING RECEPTS & EF-CUST-400C	EXISTING WIRE & CONDUIT	20A/1P		900	528	
	31	EXISTING RECPETACLES	*	20A/1P		300	020	A
	33	EXISTING RECEPTACLES	*	20A/1P				B
	35	EXISTING LOAD	-	20A/1P				5
	37	EXISTING LOAD EXISTING EXIT LIGHTS	•	· ·				\ \
	-	SPARE	-	20A/1P				A
	39	SPARE		20A/2P				B
	41	CDA CE		 				
	2	SPACE						A
	4	SPACE						В
	6	EXISTING LOAD		20A/1P				C
	8	EXISTING LOAD		[30A/2P				Α
	[10							В
	[12	EF-RR-500E & EF-RR-500F	EXISTING WIRE & CONDUIT	[20A/1P			1056	C
	[14	EXISTING EWC		[20A/1P				Α
	16	EXISTING LOAD		20A/1P				В
	18	EXISTING LOAD		20A/1P				C
	20	EXISTING RECEPTACLES	<u> </u>	20A/1P				Α
	22	EXISTING RECEPTACLES	7	20A/1P				В
	24	EXISTING RECEPTACLES	*	20A/1P				(
	26	EXISTING RECEPTACLES	*	20A/1P				A
	28	EXISTING RECEPTACLES	7	20A/1P				В
	30	EXISTING RECEPTS & EF-STOR-500B	EXISTING WIRF & CONDUIT	20A/1P		900	528	
	32	EXISTING RECEPTACLES	ZASTING WIRE & CONDOIT	20A/1P		900	320	l _
	-		-	-				A
	34	EXISTING RECEPTACLES	-	20A/1P				B
	36	EXISTING RECEPTACLES	-	20A/1P				-
	38	EXISTING RECEPTACLES	-	20A/1P				Α
	40	SPARE		20A/2P				В
	42							C
ENERAL NOTES			SUB-FEED PANE					Α
		IT SIZES SHALL BE	CONNECTE					В
· -		NLESS OTHERWISE NOTED.		<u>JMMARY</u>				C
. PROVIDE FEED	THR	U LUGS	TOTALS PER TYPE (I			3.78	3.17	
			LOADS PER PHASE:	1.3	kVA	10.5	Amps	Α
				1.8	kVA	14.8	Amps	В
				3.9	kVA	<u>32.</u> 6	Amps	С
			PANEL TOTALS	6.9	KVA		AMPS	



2023.04.28 ISSUES

01 ISSUE FOR CONSTRUCTION 2023.04.28

REVISIONS O1 ADDENDUM 01



PANEL SCHEDULES

JOB NO.: 22146-00 DRAWN BY: PT CHECKED BY: DW

E2.01

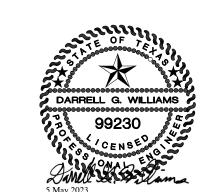
	PA	NELBOARD: P3 (EXIS	STING)					
-L VOLTAGE:	Скт	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A	Τ
480 VOLTS	1	207.2 2200.12. 120.1		7 2		1.0	11001	Ť
-N VOLTAGE:	3	EXISTING LOAD	†	15A/3P				
277 VOLTS	5		*	7 37, 73.				
ONNECTION	7		EXISTING WIRE &				3878	
YPE:	9	RTU-MUSIC	CONDUIT	20A/3P			3878	
3 PHASE,	11		7	*			3878	
4 WIRE	13		EXISTING WIRE &	T			3878	
PLUS GND	15	RTU-LIB-S	CONDUIT	20A/3P			3878	
MAINS:	17		T				3878	1
200A MLO	19		EXISTING WIRE &				3878	1
MOUNTING:	21	RTU-LIB-W	CONDUIT	20A/3P			3878	
SURFACE	23			T			3878	
AIC RATING:	25		EXISTING WIRE &				3324	
EXISTING	27	RTU-207	CONDUIT	15A/3P			3324	
	29						3324	
	31		EXISTING WIRE &				4155	
	33	RTU-C103	CONDUIT	20A/3P			4155	
	35						4155	
								1
	2	EVICTING LOAD	•	[[[]				
	4	EXISTING LOAD	•	15A/3P				
	6		EVICTING WIDE 9	-			2070	
	8	RTU-ART	EXISTING WIRE &	204/20			3878	
	10	KIU-AKI	CONDUIT	20A/3P			3878	
	12		EXISTING WIRE &	-			3878	
	14	 RTU-LIB-E	CONDUIT	20A/3P			3878 3878	
	18	KTO-LIB-L	CONDOIT	20A/3P			3878	
	20		EXISTING WIRE &	+			3878	
	22	RTU-LIB-N	CONDUIT	204/20			3878	
	-	KTO-LID-N	CONDOIT	20A/3P			1	
	24 26		EXISTING WIRE &	*			3878 3324	
	28	RTU-86	CONDUIT	15A/3P			3324	
	30		CONDOIL	1374/37			3324	
	32		†	*			5817	
	34	RTU-C106	3#10,1#10G-3/4"C.	25A/3P			5817	
	36		J# 10,1# 10G-3/4 C.	2374/37			5817	
	 		†	*			3017	
ENERAL NOTES	<u>. </u>		SUB-FEED PANE	LBOARD	<u> </u>			t
		IT SIZES SHALL BE	CONNECT					
2#12,#12G,3/	4"C U	NLESS OTHERWISE NOTED.	S	<u>UMMARY</u>				
. PROVIDE FEED	THR	U LUGS	TOTALS PER TYPE (kVA):			119.66	Ţ
			LOADS PER PHASE:	39.9	kVA	144.0	Amps	
				39.9	kVA	144.0	Amps	
				39.9	kVA	144.0	Amps	
			PANEL TOTALS	119.7	KVA	144.0	AMPS	

	PA	NELBOARD: L3 SECT 1 (EXISTING)				
L-L VOLTAGE:	Іскт	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
208 VOLTS	1	RTU-107	EXISTING WIRE &	30A/2P			2028
L-N VOLTAGE:	3		CONDUIT	7 7 7			2028
120 VOLTS	5	EXISTING RECEPTACLES	COMBOTT	20A/1P			2020
CONNECTION	7	RTU-85	EXISTING WIRE &	35A/2P			2381
TYPE:	9		CONDUIT	7507 (721			2381
3 PHASE,	11	EXISTING KILN		90A/2P			2501
4 WIRE	13	EXISTING RIEN		JUN 21			
PLUS GND	15	EXISTING LOAD	•	20A/2P			
MAINS:	17	EXISTING ESTAB	•	207/21			
400A MCB	19	EXISTING LOAD		20A/1P			
MOUNTING:	21	ROOF RECEPTACLES	2#12 1#12C 2/4"C	20A/1P		1080	
#VALUE!	-	EXISTING LOAD	2#12,1#12G-3/4"C.			1080	
	23	EXISTING LOAD		20A/2P			
AIC RATING:	25	DOOF DECEDEACIES	2,442,4,426,2,4486	204/40		1 1 1 1 0	
EXISTING	27	ROOF RECEPTACLES	2#12,1#12G-3/4"C.	20A/1P		1440	
	29	EXISTING RECEPTACLES		20A/1P			
			L				
	2	RTU-108	EXISTING WIRE &	15A/2P			1248
	4		CONDUIT				1248
	6	EXISTING RECEPTACLES		20A/1P			
	8	RTU-84	EXISTING WIRE &	35A/2P			2381
	10		CONDUIT				2381
		EXISTNG LOAD	COMBOTT	20A/2P			2501
	14			2071/21			
	16	EXISTING LOAD		20A/2P			
	18	LXISTING LOAD		20A/21			
	20	EXISTING LOAD		204/20			
		EXISTING LOAD		20A/2P			
	22	EVICTING LOAD		201/20			
		EXISTING LOAD		20A/2P			
	26	EVICTING DECERTAGES		0000			
		EXISTING RECEPTACLES		20A/1P			
	30	EXISTING RECEPTACLES		20A/1P			
GENERAL NOTES:			SUB-FEED PANE	LBOARD		1800	1584
1. ALL WIRE & CO)NDU	IT SIZES SHALL BE	CONNECT	ED LOAD			1056
2#12, 1#12G, 3/4	4"C. L	INLESS OTHERWISE NOTED.	S	UMMARY		900	1584
2. ALL ONE POLE	CIRC	UITS SHALL HAVE DEDICATED	TOTALS PER TYPE (kVA):		5.22	20.30
NEUTRAL WIRES			LOADS PER PHASE:	11.4	kVA	95.2	Amps
				11.6			Amps
				2.5			Amps
			PANEL TOTALS	i	KVA	70.9	

	РΔ	NELBOARD: L3 SECT 2	(EXISTING)				
-L VOLTAGE:	СКТ	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
208 VOLTS	31	EGAS BESCHI ITON	WINE & CONDOIT	DICIC		T(C)	11071
-N VOLTAGE:	33	EXISTING LOAD		60A/3P			
120 VOLTS	35						
CONNECTION	37	EXISTNG RECEPTS & EF-RR-C10	EXISTING WIRE & CONDUIT	20A/1P		900	528
TYPE:	39	EXISTING RECEPTACLES	Line	20A/1P			
3 PHASE,	41	EXISTING RECEPTACLES		20A/1P			
4 WIRE	43	EXISTING RECEPTACLES		20A/1P			
PLUS GND	45	EXISTING RECEPTACLES		20A/1P			
MAINS:	47	EXISTING RECEPTACLES		20A/1P			
400A MCB	49	EXISTING RECEPTACLES		20A/1P			
MOUNTING:	51	EXISTING RECEPTACLES		20A/1P			
VALUE!	53	EXISTING LOAD		20A/2P			
AIC RATING:	55						
EXISTING	57	EXISTING RECEPTACLES	7	20A/1P			
GEN. NOTES	59	EXISTING RECEPTACLES		20A/1P			
	61	EXISTING RECEPTACLES		20A/1P			
	63	EXISTING RECEPTACLES	\rightarrow	20A/1P			
	65	EXISTING RECEPTACLES		20A/1P			
	67	EF-ART	EXISTING WIRE & CONDUIT	20A/1P			528
	69	EXISTING LIGHTS	L.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20A/1P			520
	71	EXISTING EXIT SIGNS		20A/1P			
	32			2011/21			
	34	EXISTING LOAD		60A/3P			
	36			7			
	_	EXISTING RECEPTS & EF-RR-97B	EXISTING WIRE & CONDUIT	20A/1P		900	528
	_	EXISTING RECEPTACLES	*	20A/1P			
	42	EXISTING RECEPTS & EF-RR-87C	EXISTING WIRE & CONDUIT	20A/1P		900	528
	44	EXISTING RECEPTACLES		20A/1P		300	520
	46	EXISTING RECEPTACLES		20A/1P			
	48	EXISTING RECEPTACLES		20A/1P			
	50	EXISTING RECEPTACLES	•	20A/1P			
	52	EXISTING RECEPTACLES	*	20A/1P			
	_	EXISTING RECEPTACLES	*	20A/1P			
	56	EXISTING RECEPTACLES		20A/1P			
	58	EXISTING RECEPTACLES		20A/1P			
	60	EXISTING RECEPTACLES		20A/1P			
		EXISTING RECEPTACLES	~~~~	20A/1P			
		EF-LOUNGE-68C & EF-RR-68B	EXISTING WIRE & CONDUIT	20A/1P			1056
	66	EF-CUST-88 & EF-DARK-90B	EXISTING WIRE & CONDUIT	20A/1P			1056
	68	EXISTING LIGHTS	~	20A/1P			1030
		EXISTING RECEPTACLES		20A/1P	1		
	72	EXISTING RECEPTACLES		20A/1P			
	12	EXTOTITIO NECEL TITOLEO	SUB-FEED PANE	•			
			CONNECTE		1		
			I	IMMARY			
			TOTALS PER TYPE (İ	2.70	4.22
			LOADS PER PHASE:	T	kVA		Amps
				1.1	kVA		Amps
					kVA		Amps
			PANEL TOTALS		KVA	19.2	•

L-L VOLTAGE: 208 VOLTS L-N VOLTAGE: 120 VOLTS CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 60A MLO MOUNTING: #VALUE! AIC RATING: EXISTING	1 3 5 7 9 11 13 15 17 19 21	LOAD DESCRIPTION EXISTING RECEPTACLES EXISTING REFRIGERATOR EXISTING FA POWER SUPPLY EXISTING WATER HEATER EXISTING LOAD SPACE EXISTING LOAD RTU-A/V SPACE SPACE SPACE	WIRE & CONDUIT 2#10,1#10G-3/4"C.	BKR 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 20A/1P 30A/2P		RCPT	2028 2028	
208 VOLTS L-N VOLTAGE: 120 VOLTS CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 60A MLO MOUNTING: #VALUE! AIC RATING:	1 3 5 7 9 11 13 15 17 19 21	EXISTING RECEPTACLES EXISTING REFRIGERATOR EXISTING FA POWER SUPPLY EXISTING WATER HEATER EXISTING LOAD SPACE EXISTING LOAD RTU-A/V SPACE SPACE		20A/1P 20A/1P 20A/1P 20A/1P 20A/1P			2028	B C A B C
L-N VOLTAGE: 120 VOLTS CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 60A MLO MOUNTING: #VALUE! AIC RATING:	3 5 7 9 11 13 15 17 19 21	EXISTING REFRIGERATOR EXISTING FA POWER SUPPLY EXISTING WATER HEATER EXISTING LOAD SPACE EXISTING LOAD RTU-A/V SPACE SPACE	2#10,1#10G-3/4"C.	20A/1P 20A/1P 20A/1P 20A/1P 20A/1P				B C A B C
120 VOLTS CONNECTION TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 60A MLO MOUNTING: #VALUE! AIC RATING:	5 7 9 11 13 15 17 19 21	EXISTING FA POWER SUPPLY EXISTING WATER HEATER EXISTING LOAD SPACE EXYSMING LOAD RTU-A/V SPACE SPACE	2#10,1#10G-3/4"C.	20A/1P 20A/1P 20A/1P 20A/1P				
TYPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 60A MLO MOUNTING: #VALUE! AIC RATING:	9 11 13 15 17 19 21	EXISTING LOAD SPACE EXISMING LOAD RTU-A/V SPACE SPACE	2#10,1#10G-3/4"C.	20A/1P 20A/1P 20A/1P				E
3 PHASE, 4 WIRE PLUS GND MAINS: 60A MLO MOUNTING: #VALUE! AIC RATING:	11 13 15 17 19 21	SPACE EXISMING LOAD RTU-A/V SPACE SPACE	2#10,1#10G-3/4"C.	20A/1P 20A/1P				E
4 WIRE PLUS GND MAINS: 60A MLO MOUNTING: #VALUE! AIC RATING:	13 15 17 19 21	RTU-A/V SPACE SPACE	2#10,1#10G-3/4"C.	20A/1P				E
PLUS GND MAINS: 60A MLO MOUNTING: #VALUE! AIC RATING:	15 17 19 21	SPACE 11	2#10,1#10G-3/4"C.					E
MAINS: 60A MLO MOUNTING: #VALUE! AIC RATING:	17 19 21	SPACE 11	2#10,1#10G-3/4"C.	30A/2P				(
60A MLO MOUNTING: #VALUE! AIC RATING:	21	SPACE					2028	Ι.
MOUNTING: #VALUE! AIC RATING:	21	SPACE						1
#VALUE! AIC RATING:	•			,				1 F
AIC RATING:	23	SPACE						E
								(
EXISTING								1
								E
	•							(
Ţ	•							A
r	_							E
L								C
								1
								E
								C
	2	EXISTING RECEPTACLES		20A/1P				P
		EXISTING RECEPTACLES		20A/1P				E
		EXISTING RECEPTACLES		20A/1P				(
		EXISTING RECEPTACLES		20A/1P				1
		EXISTING RECEPTACLES		20A/1P				E
		EXISTING RECEPTACLES		20A/1P				(
		EXISTING RECEPTACLES		20A/1P				1
		EXISTING LOAD		30A/2P				E
	18							C
		SPACE						^
		SPACE						E
	24	SPACE						C
								1
								E
								(
								^
								E
								E
0515541 115				<u> </u>		<u> </u>	<u> </u>	(
GENERAL NOTES:			SUB-FEED PANE					/
		IT SIZES SHALL BE	CONNECTI					E
		INLESS OTHERWISE NOTED.		JMMARY	<u> </u>	<u> </u>		(
	CIRC	UITS SHALL HAVE DEDICATED	TOTALS PER TYPE (KVA):	1 > 7 -	<u> </u>	4.06	t –
NEUTRAL WIRES.			LOADS PER PHASE:		kVA		Amps	/
					kVA	16.9	-	E
			PANEL TOTALS	4.1	kVA	16.9 11.3	Amps	(





2023.04.28

ISS	SUES	
01	ISSUE FOR CONSTRUCTION	2023.0
RE	VISIONS	
	ì	
01	ADDENDUM 01	2023.
01	ADDENDUM 01	2023.0
01	ADDENDUM 01	2023.0
01	ADDENDUM 01	2023.0



VAC REPLACEMENT

MIDLOTHIAN I.S.D.

MIDLOTHIAN I.S.D.

MIDLOTHIAN I.S.D.

PANEL SCHEDULES

JOB NO.: 22146-00 DRAWN BY: PT CHECKED BY: DW

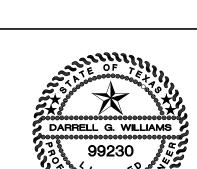
E2.02

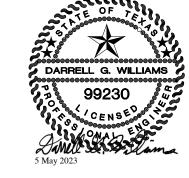
	PA	NELBOARD: P4 (E)	KISTING)					
L-L VOLTAGE:	СКТ	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A	
480 VOLTS	1		EXISTING WIRE &				4155	Α
L-N VOLTAGE:	3	RTU-STAGE	CONDUIT	20A/3P			4155	В
277 VOLTS	5						4155	С
CONNECTION	7		EXISTING WIRE &				4155	Α
TYPE:	9	RTU-CAFÉ-SW	CONDUIT	20A/3P			4155	В
3 PHASE,	11						4155	С
4 WIRE	13		EXISTING WIRE &				5817	Α
PLUS GND	15	RTU-CAFÉ-NW	CONDUIT	25A/3P			5817	В
MAINS:	17		$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		~~	~~	781 7	6
400A MCB	19	SPACE						Α
MOUNTING: (21	SPACE						В
SURFACE	23	SPACE						C
AIC RATING:	=	SPACE						Α
EXISTING		SPACE	~~~~~~	fu				B
	-	SPACE						С
								Α
								В
								C
								A
								В
								ا د
	2		EXISTING WIRE &				4155	Δ
		RTU-CAFÉ-SE	CONDUIT	20A/3P			4155	
	6	INTO CALL SE	CONDOIT	20/7/31			4155	
	8		EXISTING WIRE &				4155	
	10	RTU-CAFÉ-NE	CONDUIT	20A/3P			4155	
	12	INTO-CALL-INE	CONDOIT	ZUA/ 3F				
			EVICTING WIDE 9.				4155	
	14	RTU-KITCHEN	EXISTING WIRE &	204/20			5817	
	16	RTO-KITCHEN	CONDUIT	30A/3P			5817	
	18	CDACE					5817	
	_	SPACE						A
		SPACE						В
		SPACE						
		SPACE						A
		SPACE						В
	30	SPACE						C
								A
								В
								C
								Α_
								В
	<u> </u>				<u> </u>		I	<u> </u>
GENERAL NOTES			SUB-FEED PANE					A
		IT SIZES SHALL BE	CONNECTI					В
		INLESS OTHERWISE NOTED.		JMMARY	<u> </u>			<u> C</u>
2. PROVIDE FEEI) THR	U LUGS	TOTALS PER TYPE (<u> </u>		84.76	
			LOADS PER PHASE:	28.3		102.0	Amps	Α
				28.3	kVA		Amps	В
				28.3	kVA	102.0		<u>C</u>
			PANEL TOTALS	84.8	KVA	102.0	AMPS	

		NELBOARD: K SECT 1	(======================================				
L-L VOLTAGE:	СКТ	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
208 VOLTS	1	EXISTING LOAD		100A/2P			
L-N VOLTAGE:	3						
120 VOLTS	5	EXISTING LOAD		20A/1P			
CONNECTION	7						
ТҮРЕ:	9	EXISTING LOAD		15A/3P			
3 PHASE,	منتر	~~~~		-			
4 WIRE	13	LUSE LUTTOUEN A		-			
PLUS GND	~	KEF-KITCHEN	EXISTING WIRE & CONDUIT	15A/3P			
MAINS: 600A MLO	17			-			828
MOUNTING:	21	EXISTING LOAD		100A/3P			
SURFACE	23	EXISTING EGAB		100A/ 3F			
AIC RATING:	25			_			
EXISTING	27	EXISTING LOAD		40A/3P			
	29			-			
		EXISTING LOAD		20A/1P			
	33	EXISTING LOAD		20A/1P			
	35	EXISTING LOAD		20A/1P			
	37						
	39	EXISTING LOAD		60A/3P			
	41						
	43						
		EXISTING LOAD		90A/3P			
	47	EVIZOTENIA I A I					
	2	EXISTING LOAD		20A/1P			
	4	EXISTING LOAD		25A/2P			
	6						
	8	EVICTING LOAD		404/20			
	10	EXISTING LOAD		40A/3P			
	12 14	EXISTING LOAD		204/10			
	16	EXISTING LOAD		20A/1P 60A/2P			
	18	LAISTING LOAD		OUA/2P			
	20						
	22	EXISTING LOAD		40A/3P			
	24			757 (751			
		EXISTING LOAD		20A/1P			
		EXISTING LOAD		20A/1P			
	30	EXISTING LOAD		20A/1P			
	32						
	34	EXISTING LOAD		20A/3P			
	36						
	38						
	40	EXISTING LOAD		15A/3P			
	42						
	44	EXISTING LOAD		20A/1P			
	46	EXISTING LOAD		80A/2P			
ENERAL NOTES	48		SUB-FEED PANE	I ROADD			2222
		IT SIZES SHALL BE	CONNECTE CONNECTE				2232
		NLESS OTHERWISE NOTED.	I	JMMARY		360	2232 360 528
. PROVIDE FEED			TOTALS PER TYPE (I			0.36	
			LOADS PER PHASE:	3.1	kVA		
				0.8			Amps
				1.7			Amps

	I _{CL} (T	LOAD DECORPTION	WIDE C CONSULT	DICE	1.70	D.CD.T	N40 4	_
L-L VOLTAGE:		LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A	+
208 VOLTS	49	EXISTING LOAD		50A/2P				
L-N VOLTAGE:	51	EVICTING LOAD		204/40				
120 VOLTS	53	EXISTING LOAD		20A/1P				۱
CONNECTION	55	EXISTING LOAD EXISTING LOAD		20A/1P				
TYPE:	57 59	EXISTING LOAD		20A/1P				
3 PHASE,	61			20A/1P				
4 WIRE PLUS GND	63	EXISTING LOAD	•	20A/1P 20A/1P				
MAINS:	65		•	20A/1P				
600A MLO	67	EF-RR-64A & EF-RR-65A	EXISTING WIRE & CONDUIT	20A/1P			1056	
MOUNTING:	69	EXISTING LOAD	ZAISTING WINE & CONDOIT	20A/1P			1030	,
SURFACE	71	EXISTING LOAD		20A/1P				
AIC RATING:	73	EXISTING LOAD		20A/2P				
EXISTING.	75	EXISTING LOAD		40A/1P				l
GEN. NOTES	77	EXISTING LOAD		20A/1P				
GLIN, NOTES	79	EXISTING LOAD		50A/2P				
	81		 	307/27				
	83	EXISTING LOAD		25A/2P				
	85	LAISTING LOAD		23A/2P				
	87							
	89	EXISTING LOAD		30A/3P				
	91			3071/31				
		SF-KIT	EXISTING WIRE & CONDUIT	20A/1P			1176	,
	1	EXISTING LOAD		20A/1P				
		EXISTING LOAD		20A/1P				
		EXISTING LOAD		20A/1P				
		EXISTING LOAD		20A/1P				
	60	EXISTING LOAD		20A/1P				
	62	EXISTING LOAD		20A/1P				1
	64	EXISTING LOAD		20A/1P				
	1	EXISTING LOAD		20A/1P				
	68	EXISTING LOAD		20A/1P				
	70	EXISTING LOAD		20A/1P				
	72	EXISTING RECEPTS & EF	EXISTING WIRE & CONDUIT	20A/1P		360	528	3
		EXISTING LOAD		20A/1P				1
		EXISTING LOAD		20A/1P				
	78	EXISTING LOAD		20A/1P				
		EXISTING LOAD		20A/1P				j
	82	EXISTING LOAD		20A/1P				
	84	EXISTING LOAD		20A/2P				
	86							1
	88							
	90							
	92			_	_			
GENERAL NOTES):		SUB-FEED PANEI	LBOARD				Í
L. ALL WIRE & C	ONDU	IT SIZES SHALL BE	CONNECTE	D LOAD				
2#12,#12G,3/	4"C U	NLESS OTHERWISE NOTED.	SU	MMARY				_
			TOTALS PER TYPE (k	(VA):		0.36	2.76)
			LOADS PER PHASE:	2.2	kVA	18.6	Amps	
					kVA		Amps	
				0.9	LVΛ	7.4	Amps	







2023.04.28

UΙ	ISSUE FOR CONSTRUCTION	2023.04.28
RE	VISIONS	
01	ADDENDUM 01	2023.05.05





PANEL SCHEDULES

JOB NO.: 22146-00 DRAWN BY: PT CHECKED BY: DW

SHEET NO.

E2.03

	PA	NELBOARD: P5 - SEC	TION 1 (EXISTIN	NG)				
L-L VOLTAGE:	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A	Π
480 VOLTS	1						3878	Α
L-N VOLTAGE:	3	RTU-MUSIC	CONDUIT	20A/3P			3878	1
277 VOLTS	5						3878	
CONNECTION			EXISTING WIRE &				3878	
TYPE:	9	RTU-72N	CONDUIT	20A/3P			3878	
3 PHASE,	11						3878	c
4 WIRE	13		EXISTING WIRE &				3324	
PLUS GND	15	RTU-72D	CONDUIT	15A/3P			3324	
MAINS:	17						3324	c
600A MLO	19		EXISTING WIRE &				4155	
MOUNTING:	21	RTU-GYM-NW	CONDUIT	20A/3P			4155	
SURFACE	23			,==			4155	
AIC RATING:								A
EXISTING								В
								c
								Α
								В
								c
								Α
								В
								c
	2		EXISTING WIRE &				3878	Α
	4	RTU-79	CONDUIT	20A/3P			3878	
	6			, = 1			3878	
	8		EXISTING WIRE &				3878	
	10	RTU-72S	CONDUIT	20A/3P			3878	
	12						3878	
	14		EXISTING WIRE &				4155	
		RTU-GYM-SW		20A/3P			4155	1
							4155	1
			EXISTING WIRE &				4155	
		RTU-GYM-SE		20A/3P			4155	
							4155	1
	·							A
								В
								c
								A
								В
								c
								A
								В
GENERAL NOTES:	ı		SIIR-FFFD DANE	ΙΒΟΔΡΟ			39057	<u>C</u>
		IT SIZES SHALL RE						
					1			
2,#12,#12G,5/5 2. PROVIDE FEED	38 RTU-MUSIC CONDUIT 20A/3P 387 7 P RTU-72N CONDUIT 20A/3P 387 11	211.07						
2. 1 KO 41DL 1 LED	11111		LOADS PER PHASE:	70.4	kVΔ	254.0	Amps	Α
			LUADS FLR FRASE:	70.4		254.0 254.0	Amps	B
							-	
			DANEL TOTALS	70.4 211.1			AMPS	
			PANEL TOTALS	211.1	KVA	254.0	<u>AMPS</u>	

	PA	NELBOARD: P5 - SEC	TION 2 (EXISTIN	NG)				
L-L VOLTAGE:	СКТ	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A	T
480 VOLTS	25		EXISTING WIRE &				4155	, [
L-N VOLTAGE:	27	RTU-GYM-NE	CONDUIT	20A/3P			4155	- 1
277 VOLTS	29						4155	- 1
CONNECTION	31		EXISTING WIRE &				3878	- 1
TYPE:	33	RTU-308	CONDUIT	20A/3P			3878	- 1
3 PHASE,	35						3878	
4 WIRE	37		EXISTING WIRE &				3878	
PLUS GND	39	RTU-307	CONDUIT	20A/3P			3878	
MAINS:	41						3878	
600A MLO			EXISTING WIRE &				3878	- 1
MOUNTING:	1	RTU-306		20A/3P			3878	- 1
							3878	
	1						7756	
EXISTING	51	RTU-304 & RTU-305	3#8.1#10G-3/4"C.	40A/3P			7756	- 1
							7756	- 1
							,,30	
	26		EXISTING WIRE &				3878	3
	28	RTU-309	CONDUIT	20A/3P			3878	;
	30						3878	;
	32		EXISTING WIRE &				3878	;
	34	RTU-301	CONDUIT	20A/3P			3878	;
	36						3878	
	38		EXISTING WIRE &				3878	;
	40	RTU-302	CONDUIT	20A/3P			3878	;
	42						3878	;
	44		EXISTING WIRE &					
	46	RTU-303	CONDUIT	20A/3P				
	48							
	50							
	52	EXISTING LOAD		20A/3P				
	54			,				
						<u> </u>		
								Ī
	28							
28 RTU-309 30 32 34 RTU-301 36 38 40 RTU-302 42 44 46 RTU-303 48 50 52 EXISTING LOAD 54 GENERAL NOTES: 1. ALL WIRE & CONDUIT SIZES SHALL BE							117.17	十
					kVΔ	141 0	<u> </u>	t
3 PHASE, 4 WIRE 9. 20A/3P 38 RTU-307 CONDUIT 20A/3P 38 SUB-FEED PANELBOARD CONDUIT 20A/3P 38 SUB-FEED PANELB								
							_	
			DANEL TOTAL C	-				+

L-L VOLTAGE:	CKT	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A
480 VOLTS	1	EXISTING	EXISTING WIRE &				
L-N VOLTAGE:	3	TRANSFORMER TLP	CONDUIT	70A/3P			
277 VOLTS	5						
CONNECTION	7		EXISTING WIRE &				3324
TYPE:	9	RTU-405	CONDUIT	15A/3P			3324
3 PHASE,	11						3324
•			EXISTING WIRE &				3878
		RTU-B119	CONDUIT	15A/3P			3878
MAINS:	_						3878
_			EXISTING WIRE &				3324
		RTU-506	CONDUIT	15A/3P			3324
			COMPOIT	15/1/51			3324
							3327
		EVISTING FUH-1	EXISTING WIRE &	15A/3P			
LXISTING		LXISTING LOTI-1		13A/3P			
		SDACE	CONDUIT				
		SPACE					
	2		EXISTING WIRE &				3324
	4	RTU-404	CONDUIT	15A/3P			3324
	6						3324
	8		EXISTING WIRE &				3324
	10	RTU-406	CONDUIT	15A/3P			3324
	12						3324
	14		EXISTING WIRE &				3324
	16	RTU-504	CONDUIT	15A/3P			3324
	18						3324
	20		EXISTING WIRE &				3324
		RTU-505	CONDUIT	15A/3P			3324
				-5. , 5.			3324
			EXISTING WIRE &				5527
		EXISTING WH-1	CONDUIT	15A/3P			
	_	LAGILIAO WII I	COMPOIL	124/25			
		SDACE					
	_						
		SPACE		<u> </u>		<u> </u>	<u> </u>
1 EXISTING -N VOLTAGE: 277 VOLTS ONNECTION YPE: 3 PHASE, 4 WIRE PLUS GND MAINS: 200A MLO MOUNTING: BURFACE AIC RATING: EXISTING 27 EXISTING EUH-1 29 31 SPACE 33 SPACE 35 SPACE 37 SPACE 37 SPACE 39 SPACE 39 SPACE 37 SPACE 39 SPACE 37 SPACE 39 SPACE 39 SPACE 37 SPACE 38 SPACE 39 SPACE 31 SPACE 32 SPACE 34 RTU-404 66 8		SUB-FEED PANE					
			CONNECT				
				UMMARY		<u> </u>	<u> </u>
2. PROVIDE FEED	THR	U LUGS	TOTALS PER TYPE (<u>-</u>			71.47
			LOADS PER PHASE:	23.8		86.0	Amps
				23.8	kVA	86.0	Amps
			 	23.8		_	Amps

	ΡΔ	NELBOARD: L5 (EXIST	ING)]		
		TELDOARD: L3 (LXIS)	1110)]		
L-L VOLTAGE:	СКТ	LOAD DESCRIPTION	WIRE & CONDUIT	BKR	LTG	RCPT	M&A	
208 VOLTS	1	RTU-300B	2#10,1#10G-3/4"C.	30A/2P			2184	Α
L-N VOLTAGE:	3						2184	В
120 VOLTS	\sim_5	ROOF RECEPTACLES	2#12,1#12G-3/4"C.	20A/1P		1080		C
CONNECTION	7	EXISTING LOAD		20A/1P				Α
TYPE:	9	EXISTING LOAD		70A/2P				В
3 PHASE,	11							C
4 WIRE	13	EXISTING LOAD		70A/2P				Α
PLUS GND	15							В
MAINS:	17	EXISTING RECEPTACLES		20A/1P				C
400A MCB	19	EXISTING RECEPTACLES		20A/1P				Α
MOUNTING:	21	EXISTING RECEPTACLES		20A/1P				В
SURFACE	23	EXISTING RECEPTACLES		20A/1P				C
AIC RATING:	25	EXISTING RECEPTACLES		20A/1P				Α
10,000 AMPS	27	EXISTING RECEPTS & EF-RR-309B	EXISTING WIRE & CONDUIT	20A/1P		900	528	
	29	EXISTING RECEPTACLES		20A/1P				C
		EXISTING RECEPTACLES		20A/1P				Α
	33	EXISTING RECEPTS & EF-RR-308B	EXISTING WIRE & CONDUIT	20A/1P		900	528	
		EXISTING RECEPTS & EF-RR-307B	EXISTING WIRE & CONDUIT	20A/1P		900		
	37	EXISTING RECEPTS & EF-RR-306B	EXISTING WIRE & CONDUIT	20A/1P		900	528	
		EF-RR-72E & EF-RR-72G	EXISTING WIRE & CONDUIT	20A/1P		300	1056	
		EXISTING LOAD		20A/1P			1030	6
	2	EXISTING LOAD		40A/2P				A
	4	EXISTING LOND		10/1/21				В
	6	EXISTING LOAD		70A/2P				С
	8	EXISTING LOAD		/ UA/ ZF				
	10	EXISTING LOAD		70A/2P				A
	12	EXISTING LOAD		/UA/2P				В
		EXISTING LOAD		204/10				C
		EXISTING LOAD EXISTING RECEPTS & EF-RR-79C	EXISTING WIRE & CONDUIT	20A/1P		000	F20	A
	16	EXISTING RECEPTS & EF-RR-79C	EXISTING WIRE & CONDOIT	20A/1P		900	528	
				20A/1P				C
		EXISTING RECEPTACLES		20A/1P				Α
	22	EXISTING RECEPTACLES		20A/1P				В
	1	EXISTING RECEPTACLES		20A/1P				C
	26	EXISTING RECEPTACLES		20A/1P				Α
		EXISTING LOAD	EVICTING WIPE & CONDUIT	50A/2P				В
		EXISTING RECEPTS & EF-RR-301C	EXISTING WIRE & CONDUIT	20A/1P		900		
	32	EXISTING RECEPTS & EF-RR-302B	EXISTING WIRE & CONDUIT	20A/1P		900	528	
		EXISTING RECEPTACLES	EVICTING WITH A CONTINUE	20A/1P				В
		EXISTING RECEPTS & EF-RR-303B	EXISTING WIRE & CONDUIT	20A/1P		900		
		EF-RR-72B & EF-RR-72C	EXISTING WIRE & CONDUIT	20A/1P			1056	
		EXISTING LIGHTS GYM		20A/1P				В
	•	EXISTING EXIT LIGHTS		20A/1P				C
GENERAL NOTES	_		SUB-FEED PANEI					A
		IT SIZES SHALL BE	CONNECTE					В
• • •		INLESS OTHERWISE NOTED.		MMARY		_		C
2. PROVIDE FEED	THR	U LUGS	TOTALS PER TYPE (k	_	<u> </u>	8.28		
			LOADS PER PHASE:		kVA		Amps	Α
				7.5	kVA		Amps	В
				5.4	kVA	44.7	Amps	<u>C</u>
			PANEL TOTALS	19.0	KVA	52.7	AMPS	



2023.04.28

O1 ISSUE FOR CONSTRUCTION 2023.04.28

REVISIONS O1 ADDENDUM 01





PANEL SCHEDULES

JOB NO.: 22146-00 DRAWN BY: PT CHECKED BY: DW

SHEET NO.

E2.04