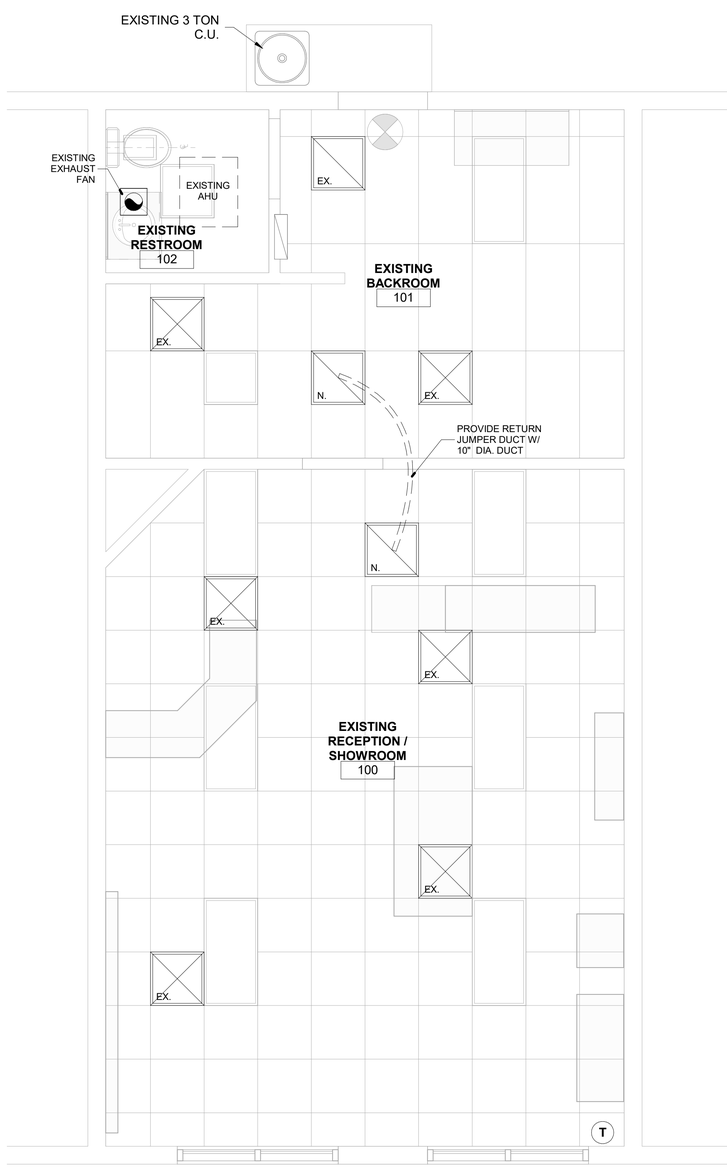
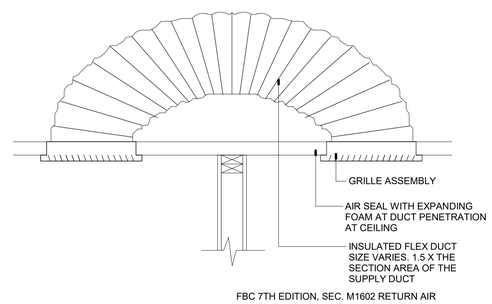


MECHANICAL PLAN
SCALE: 3/8" = 1'-0"

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	EXHAUSTED FAN
	EXISTING 2x2 PANEL LIGHTING FIXTURE
	EXISTING 2x4 PANEL LIGHTING FIXTURE
	EXISTING AIR SUPPLY DIFFUSER
	EXISTING AIR RETURN GRILL
T	THERMOSTAT
(N)	NEW
(EX)	EXISTING



FBC 7TH EDITION, SEC. M1602 RETURN AIR

1 JUMPER DUCT DETAIL
SCALE: 1" = 1'-0"

H.V.A.C. GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL TRADES IN ORDER TO AVOID CONFLICTS. NO CHANGES WILL BE ACCEPTED UNLESS A PRIOR WRITTEN APPROVAL HAS BEEN ISSUED BY THE ARCHITECT.
2. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAILOF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE HVAC SYSTEM AND PROVIDE ALL THE REQUIREMENTS NECESSARY FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER. SUBMIT SHOP DRAWINGS FOR APPROVAL
3. AIR FILTERS SHALL BE INSTALLED ON ALL RETURN AIR EQUIPMENT INLETS AND FRESH AIR INLETS.
4. PROVIDE MAIN AND AUXILIARY CONDENSATE DRAINS FOR ALL AIR CONDITIONS UNITS AND DRAIN TO EXTERIOR OR AS SHOWN ON THE PLANS. INSULATE IN UNCONDITIONED INTERIOR SPACE W/ 1/2" FOAM JACKET.
5. AIR CONDITIONING CONDENSATE PIPING AND FITTINGS SHALL BE PVC OR DWV (ASTM-D2662). ALL INTERIOR CONDENSATE PIPING IN UNAIRCONDITIONED SPACES SHALL BE WRAPPED WITH A MINIMUM 1/2" SELF SEALING INSULATING FOAM JACKET.
6. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CONTROLS FOR THE OPERATION OF THE HVAC SYSTEM. THERMOSTAT SHALL BE ONE STEP HEATING WITH SYSTEM "HEAT- AUTO -COOL-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES. USE "HONEYWELL" OR AN APPROVED EQUAL.
7. ALL DUCT TRUNK LINES SHALL BE 1 1/2" FIBERGLASS. DUCT DROPS TO CEILING MAY BE INSULATED FLEXIBLE DUCT AS INDICATED ON THE HVAC PLAN. "FLEX" DUCTS SHALL BE EXTENDED AND OPEN.
8. FIBERGLASS DUCTWORK SHALL BE "OWENS-CORNING" 1 1/2" HEAVY DUTY FIRE RETARDANT WITH GLASS REINFORCED FOIL-FACED SCRIM. CLOSE JOINTS AND SEAMS WITH FLARE STAPLES @ 2" O.C. AND GLASS REINFORCED TAPE WITH CLASS-1 RATED MASTIC. FOLLOW MANUFACTURER'S INSTALLATION PROCEDURES FOR ALL SUCH WORK.
9. DUCT SIZES SHOWN OR INDICATED ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS.
10. HANGERS SHALL BE PROVIDED IN ACCORDANCE WITH S.M.A.C.N.A. RECOMMENDATION
11. ALL AIR DISTRIBUTION DEVICES INCLUDING DIFFUSERS, REGISTERS, GRILLES, ETC. SHALL BE ALL ALUMINUM CONSTRUCTION AS MANUFACTURED BY "NAILOT-HART" OR "METALAIRE". PROVIDE OPPOSED BALD DAMPERS, TURNING VANES AND EXTRACTORS AT
12. THE OWNER SHALL APPROVE THE FINISH COLOR OF ALL EXPOSED AIR DISTRIBUTION DEVICES.
13. SMOKE DETECTORS SHALL ONLY BE REQUIRED ON AIR CONDITIONING SYSTEMS WHERE THE SUPPLY AIR IS GREATER THAN 2000CFM, PER SMC 606.2.1, AND THEN SMOKE DETECTORS SHALL BE PROVIDED AND WIRED BY ALARM COMPANY. DETECTORS SHALL BE INSTALLED BY MECHANICAL CONTRACTOR IN SUPPLY DUCT PER NFPA 90.
14. PROVIDE FIRE DAMPERS IN ALL DUCTS PASSING THROUGH FIREDIVISION WALLS, ROOFS, AND/OR FLOOR PENETRATIONS. FIRE DAMPER INSTALLATIONS SHALL COMPLY WITH ALL LOCAL CODES.
15. ELECTRIC STRIP HEATERS SHALL BE BALLAST COIL TYPE WITH NICKEL CHROMIUM WIRE ANS INSULATING BUSHING FACTORY MOUNTED AND WIRED INCLUDING ALL HEAT LIMITERS, HOGH LIMIT, SWITCHES, AND CONTRACTORS IN ACCORDANCE WITH THE "NATIONAL ELECTRIC CODE".
16. EXHAUST FANS SHALL HAVE THE CAPACITIES AS STATED ON THE DRAWINGS AND BE PROVIDED WITH BACK DRAFT DAMPER, BIRD SCREEN, AND WHEN REQUIRED A SAFETY SWITCH.
17. THE CONTRACTOR WILL BE RESPONSIBLE FOR BALANCING THE HVAC SYSTEM, ADJUST DAMPERS AND FANS TO OBTAIN AIR QUANTITIES WITHIN 5% OF THOSE INDICATED ON THE DRAWINGS.
18. TESTING OF THE SYSTEM, IF REQUIRED SHALL BE PERFORMED BY AN INDEPENDENT TEST AND BALANCE AGENCY. RECORD OUTDOOR AND INDOOR WET AND DRY BULB TEMPERATURES ALONG WITH FULL LOAD AMPERAGE READING FOR ALL MOTORS AT BALANCED CONDITION. SUBMIT ALL TEST AND BALANCE REPORTS TO THE ARCHITECT AND/OR OWNER FOR APPROVAL.
19. CEILING REGISTERS WILL BE "NAILOR-HART" CEILING AIR DIFFUSERS (24" X 24") WITH ADJUSTABLE BLADE VOLUME CONTROL OR EQUAL.

SCOPE OF WORK

1. PROVIDE REQUIRED RETURN GRILL JUMPER DUCT

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ARCHITECTURE | URBAN DESIGN
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Date: 2024.07.22 11:00:00 -04'00'
DIGITAL SIGNATURE

REVISIONS:

No.	Description	Date

CONTRACT DOCUMENTS FOR:
INTERIOR RENOVATION
ELITE METRO
ADDRESS:
968 SW BAYSHORE BLVD UNIT #4, PORT ST LUCIE, FL

DWG IDENTIFICATION

MECHANICAL PLAN

PROJECT PHASE:	DATE:	CHECKED / DRAWN BY:
PERMIT SET	06-10-2024	DD / TN

THIS DRAWING HAS BEEN ISSUED ON THE DATE SHOWN & FOR THE PURPOSE NOTED

JOB FILE NUMBER:
T-24119

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