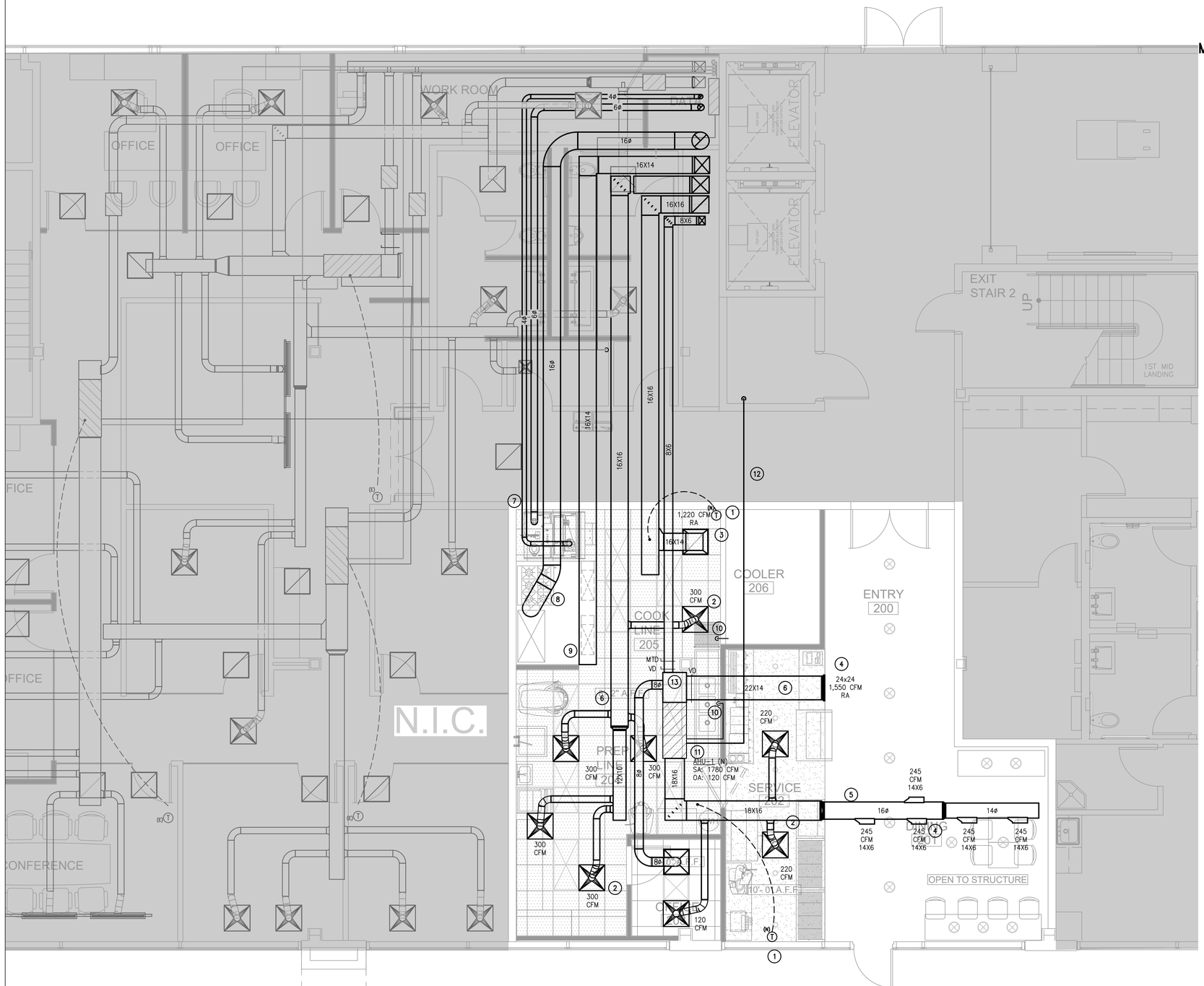

MECHANICAL KEYED NOTES:

1. PROVIDE NEW THERMOSTAT AT LOCATION INDICATED. CONTRACTOR TO FIELD VERIFY AND COORDINATE WITH BUILDING ENGINEER FOR EXACT THERMOSTAT AND LOCATION.TYPICAL.
2. PROVIDE NEW 24" X 24" SUPPLY AIR DEVICE AT LOCATION INDICATED. BALANCE TO CFM INDICATED. SEE SCHEDULE AND DETAILS. TYPICAL.
3. PROVIDE 24" X 24" RETURN AIR GRILLE WITH MANUAL BALANCING DAMPER AND NECK SIZE INDICATED. SEE SCHEDULE. TYPICAL.
4. PROVIDE NEW SIDEWALL SUPPLY/RETURN GRILLE AT LOCATION INDICATED. BALANCE TO CFM INDICATED. SEE SCHEDULE AND DETAILS. TYPICAL.
5. PROVIDE SPIRAL EXPOSED DUCTWORK WITH SIZE AS SHOWN FOR EXPOSED AREAS. IT SHALL BE INTERNALLY LINED PER MECHANICAL CODE REQUIREMENTS. MOUNT DUCT AS HIGH AS POSSIBLE. FIELD VERIFY AND COORDINATE. TYPICAL.
6. RECTANGULAR DUCT WORK IN UNEXPOSED AREA TO BE EXTERNALLY WRAPPED PER MECHANICAL CODE REQUIREMENTS UNLESS OTHERWISE INDICATED. MOUNT DUCT AS HIGH AS POSSIBLE. FIELD VERIFY AND COORDINATE. TYPICAL.
7. PROVIDE COMBUSTION AND FLUE PIPE FOR THE OVEN. FOLLOW MANUFACTURER'S GUIDELINES FOR PROPER INSTALLATION AND SIZING PIPES AS REQUIRED.
8. PROVIDE TYPE-1 HOOD EXHAUST DUCT FROM THE HOODS TO ROOF THROUGH KITCHEN EXHAUST FAN LOCATED ON THE ROOF. PROVIDE UNIFRAX FYREWRAP MAX 2.0 DUCT INSULATION - TWO-LAYER ASTM E-2336 SYSTEM, 2-HOUR FIRE-RATED WRAP AROUND DUCT. INSTALL DUCT WRAP PER MANUFACTURER'S GUIDELINE. PROVIDE ALL REQUIRED CLEARANCE REQUIREMENTS PER MANUFACTURER'S GUIDELINES. FIELD VERIFY AND COORDINATE FOR EXACT LOCATION PRIOR TO START OF WORK. EXHAUST DUCT METAL TO BE OF 16 GA.
9. PROVIDE NEW MAKEUP AIR DUCTWORK FROM THE KITCHEN HOOD TO THE MUA FAN ON THE ROOF THROUGH THE CHASE. COORDINATE FINAL ROUTING WITH BUILDING ENGINEER AND EXISTING CONDITION. REFER TO SCHEDULE AND DETAIL FOR ADDITIONAL INFORMATION.
10. PROVIDE CONDENSATE PUMP AND ROUTE PUMPED 3/4" CONDENSATE DRAIN LINE AT 1/8" SLOPE PER FOOT TO INDIRECT WASTE RECEPTOR IN KITCHEN.
11. PROVIDE NEW AHU-1 ABOVE ACCESSIBLE CEILING. FIELD VERIFY AND COORDINATE EXACT LOCATION WITH BUILDING ENGINEER AND EXISTING CONSTRAINTS. REFER TO SCHEDULE AND DETAIL FOR ADDITIONAL INFORMATION.
12. ROUTE NEW REFRIGERANT PIPING THROUGH ROOF WITH ROOF JACK VIA ELECTRICAL ROOM. FOLLOW MANUFACTURER GUIDELINE FOR PROPERLY SIZING REFRIGERANT PIPES. PROTECT PIPING WITH 1" INSULATION. PROTECT OUTDOOR PIPING WITH ALUMINUM JACKET. COORDINATE WITH BUILDING ENGINEER FOR THE BEST ROUTING PRIOR TO START OF WORK.
13. PROVIDE A MIXING BOX ALONG WITH THE MOTORIZED DAMPER (MTD) FOR OA INTAKE. BALANCE OA TO THE CFM INDICATED ON PLAN. MTD WILL CLOSE WHEN THE AHU IS DE-ENERGIZED.

HANG EXHAUST DUCT AS HIGH AS POSSIBLE.

PROVIDE INTERLOCK TO SHUT-OFF EXHAUST FAN UPON CLOSURE OF ANY OF THE FIRE/SMOKE DAMPERS INSTALLED IN THE FAN'S EXHAUST DUCT.

CONTRACTOR TO FIELD VERIFY AND COORDINATE FOR THE BEST ROUT OF SUPPLY AND RETURN DUCTWORK PRIOR TO START OF WORK.

PROVIDE FIRE DAMPER WHEREVER DUCT PENETRATES FIRE RATED WALL.

CITY MECHANICAL REVIEWER CONTACT INFORMATION AT: 936-522-3647 - DRUIZ@CITYOFCONROE.ORG

COOLER REFRIGERANT ANALYSIS

WALK-IN COOLER / FREEZER INFORMATION:

A. VOLUME: 45.8" x 27.1" x 20.8" (L x D x H) - 179.28 SQ. FT.

B. REFRIGERANT: R404A

C. 2.65 LBS. (179.28 / 1000 = 0.179 X 31 LBS = 5.56 LBS. MAX CHARGE ALLOWED).

D. 1.0 HP. COMPRESSOR IS LOCATED AT THE FREEZER/WALK-IN COOLER.

E. CONDENSATE DRAIN LINE WILL BE TERMINATED AT LOCATION INDICATED.

F. MODEL#: MBS100/MBT100. MANUFACTURER: MONOBLOCK - COOLER DEPOT.
COMPRESSOR MODEL#: XW100TP..

01 MECHANICAL PLAN - LEVEL 01
SCALE: 1/4"=1'-0"

TRUE NORTH PLAN NORTH

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

EBE CONSULTING ENGINEERS Mechanical Electrical Plumbing
12603 Southwest Frwy, Ste 170, Stafford, Tx 77477
Tel: (713) 840-0177 / Firm Reg. No: 5638

PM	MECH	ELEC	PLBG	CHCK
JG	THV	JG	BM	JG

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BAGEL BEE

400 W. DAVIS, SUITE 110
CONROE, TX 77301

E/B/E Project Number : 26049.00

ISSUED FOR	DATE
ISSUED FOR CLIENT APPROVAL	
ISSUED FOR BIDDING	05/08/2026
ISSUED FOR PERMIT	05/08/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
	90% REVIEW SET	2026/04/07
	PERMIT AND BID SET	2026/05/08

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STATE OF TEXAS
JOSE M. GUERRERO
154536
LICENSED
PROFESSIONAL ENGINEER
05/08/2026

DRAWING TITLE
MECHANICAL PLAN

SHEET NO.
M1.01

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