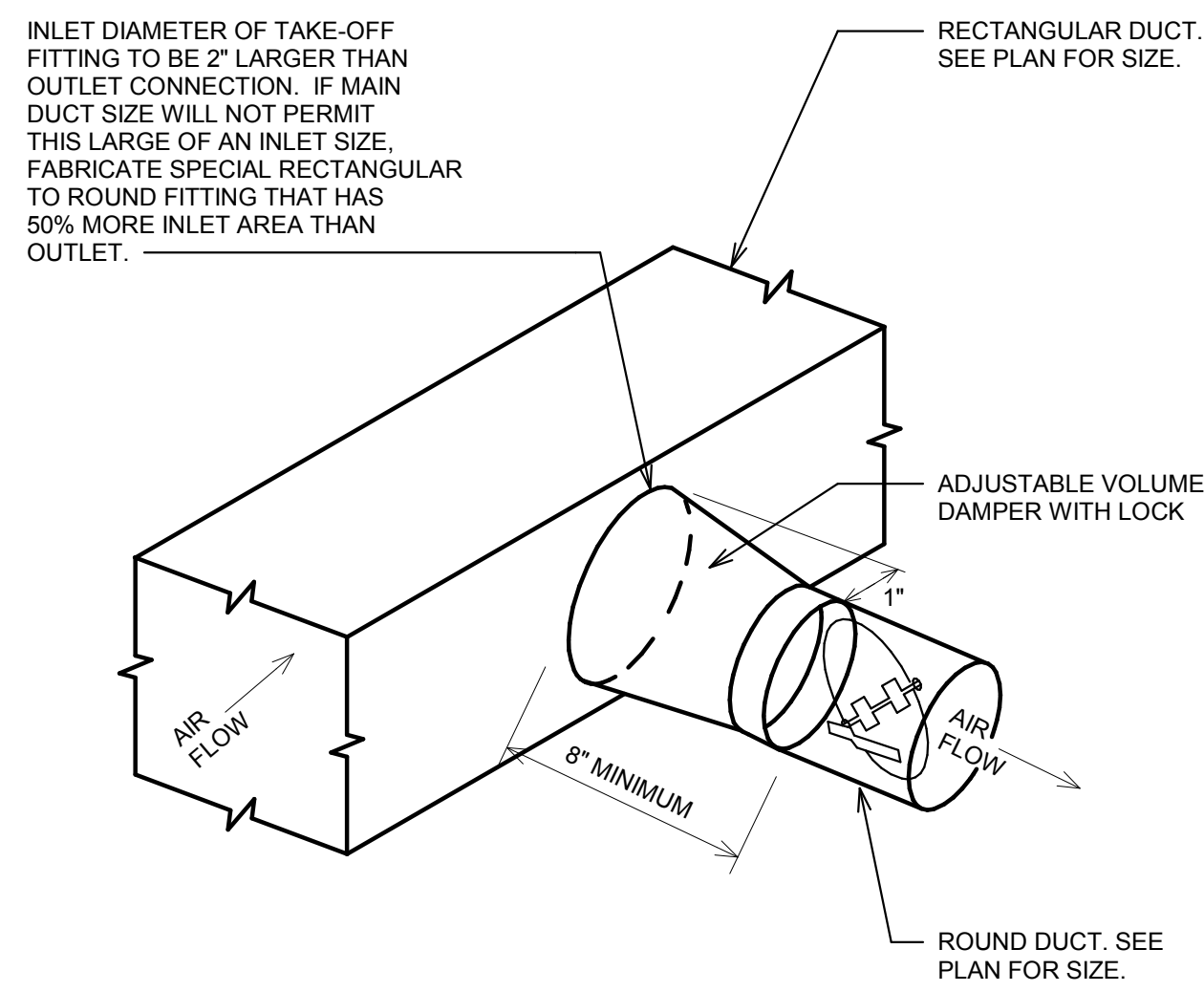
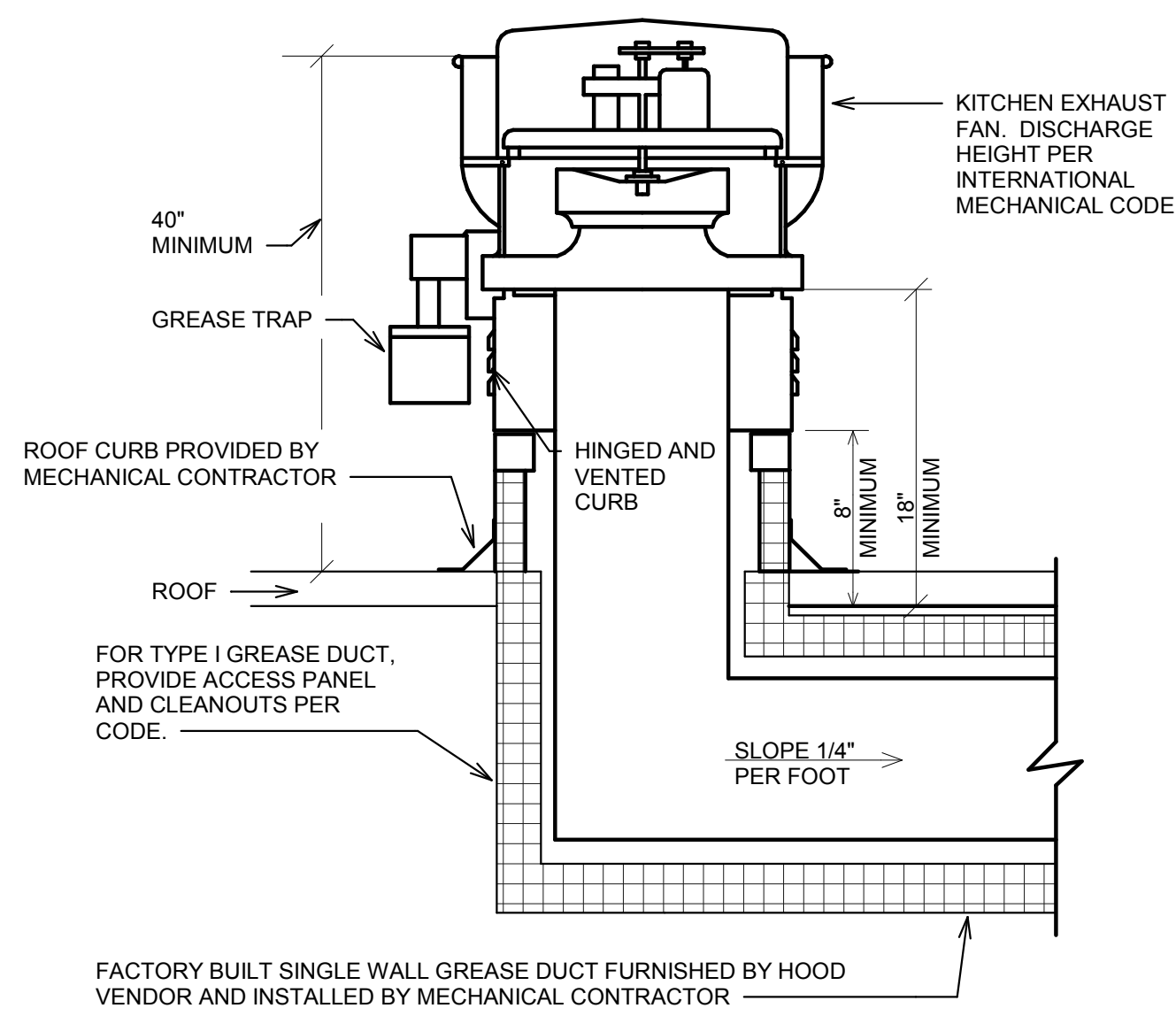


NOTES:
 1. TOP DETAIL IS TO BE FOLLOWED WHEN CENTERLINE OF DIFFUSER IS UNDER THE DUCT ENOUGH TO PERMIT A BOTTOM TAKEOFF WITH A FLEXIBLE DUCT OFFSET OF LESS THAN HALF THE NECK DIAMETER. BOTTOM DETAIL TO BE USED IN ALL OTHER CASES.

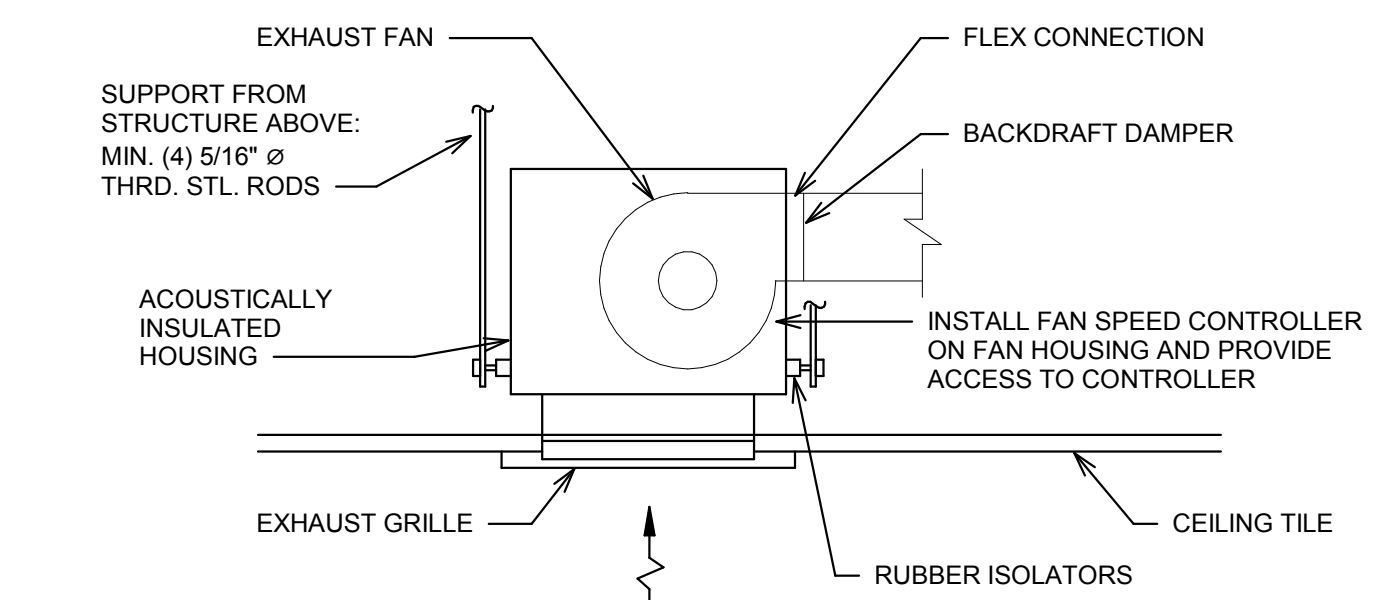
1 CEILING DIFFUSER RUNOUT DETAIL
NO SCALE



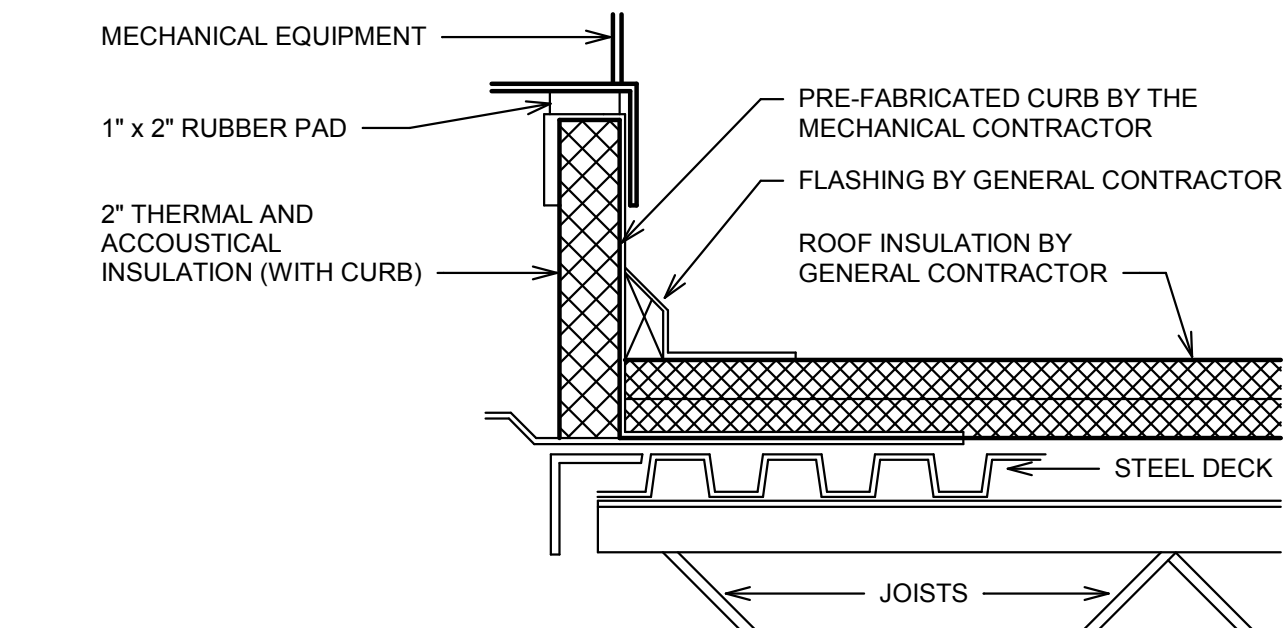
2 DUCT TAKE-OFF TO DIFFUSER DETAIL
NO SCALE



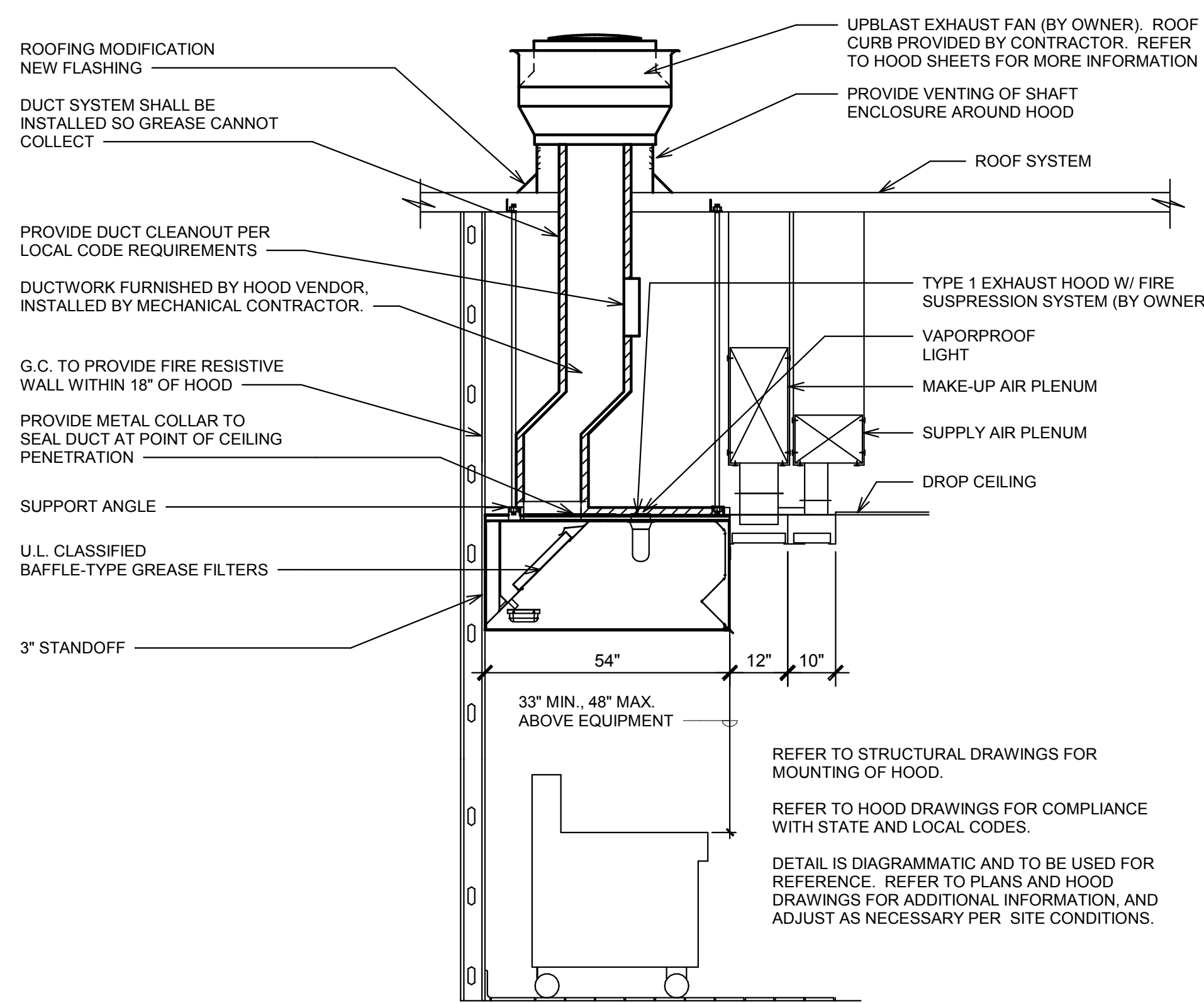
3 KITCHEN PRV EXHAUST FAN DETAIL
NO SCALE



4 CEILING MOUNTED EXHAUST FAN DETAIL
NO SCALE

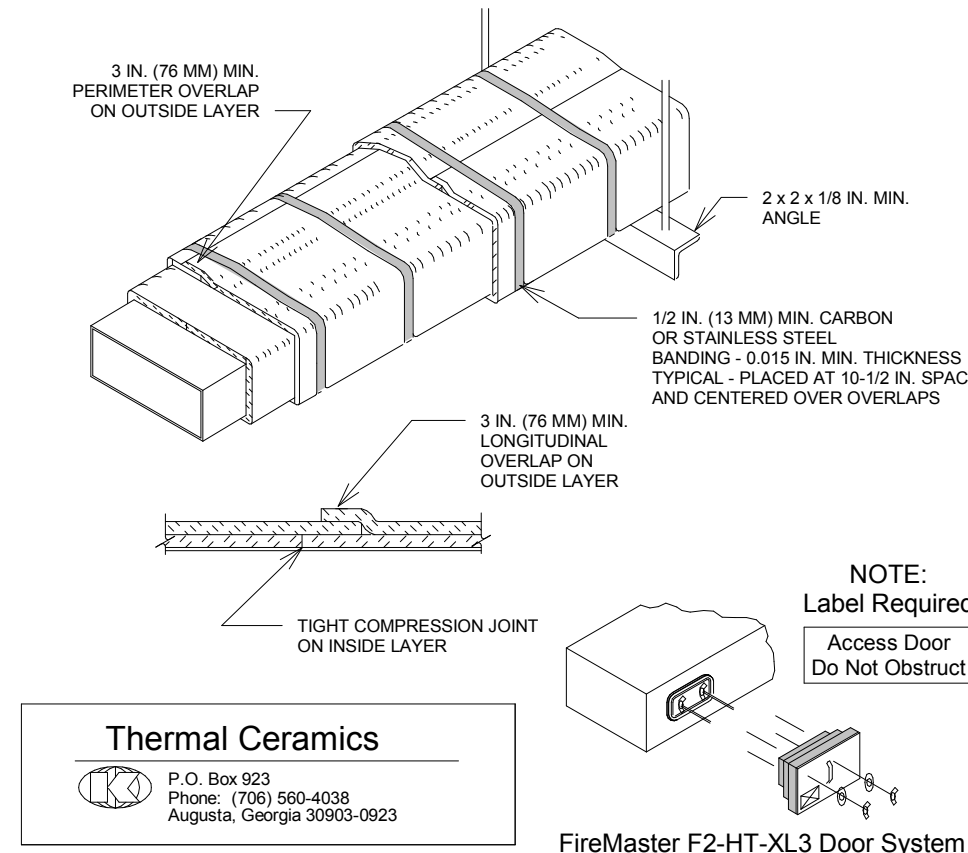


5 MECHANICAL EQUIPMENT CURB DETAIL
NO SCALE

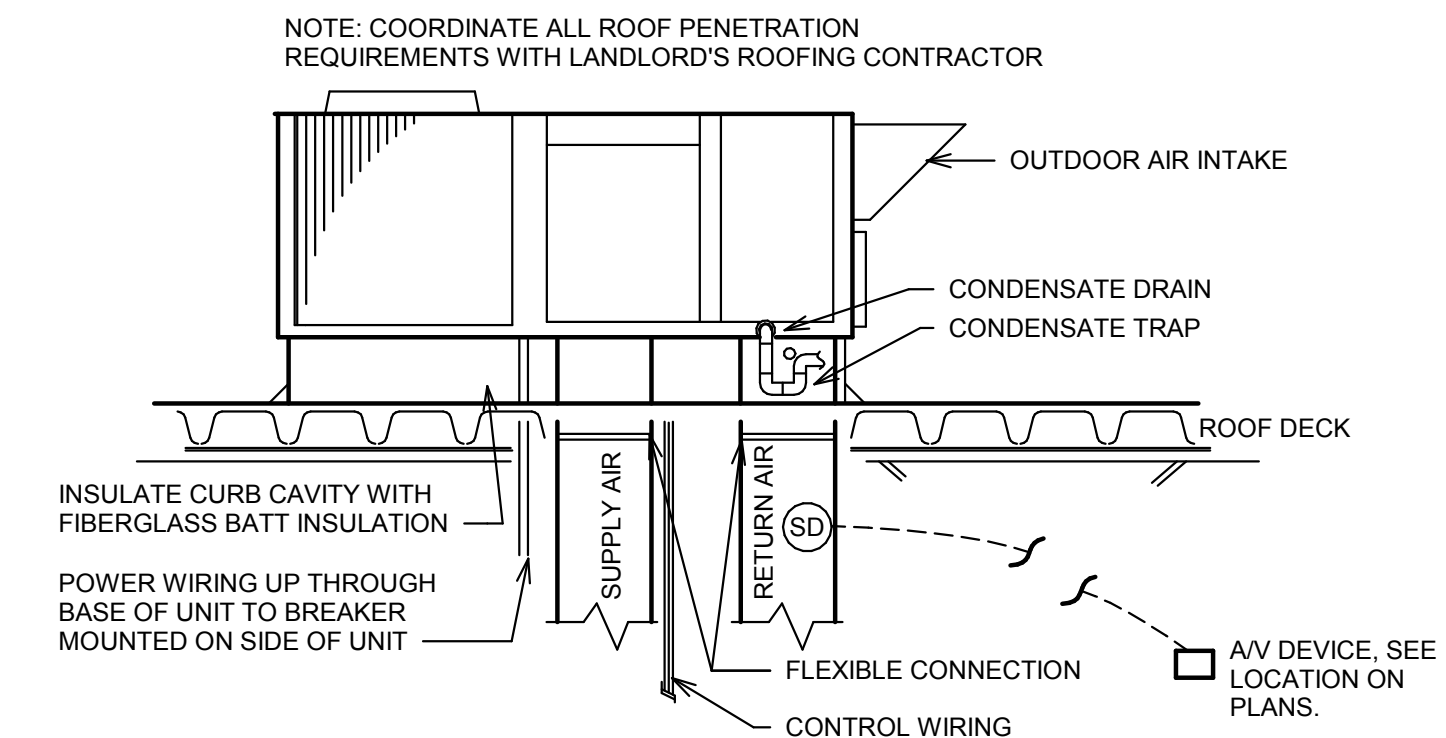


6 EXHAUST HOOD DETAIL
NO SCALE

1. THERMAL CERAMICS FIREMASTER FASTWRAP XL OR FIRESCAT XL HAS BEEN TESTED IN ACCORDANCE WITH ASTM E2386 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND MEETS THE REQUIREMENTS FOR ONE OR TWO HOUR ENCLOSURES. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH EITHER ASTM E 814 OR UL 1419. ICC-ES APPROVAL PER REPORT ESR 2213 OR ESR 2932. UNDERWRITERS LABORATORIES (UL) LISTINGS SHOW COMPLIANCE TO UL 1419 FOR THROUGH PENETRATION FIRESTOP SYSTEMS.
2. COMPLIANT TO THE FOLLOWING CODES: NFPA 96, CURRENT INTERNATIONAL MECHANICAL CODES, CURRENT UNIFORM MECHANICAL CODE.
3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON INSIDE LAYER AND 3 INCH MINIMUM OVERLAPS ON BOTH PERIMETER AND LONGITUDINAL OVERLAPS ON OUTSIDE LAYER.
4. GREASE EXHAUST DUCT RUNS FROM THE HOOD EXHAUST CONNECTION UP TO THE EXHAUST FAN ON THE ROOF WITH MINIMAL TURNS OR BENDS AND MAINTAINING MINIMUM 1/4 UNIT VERTICAL RISE PER 12 UNITS HORIZONTAL RUN. NFPA 96 COMPLIANT ACCESS DOORS LOCATED AS REQUIRED BY CODE.
5. THERMAL CERAMICS FIREMASTER ACCESS DOORS AS SPECIFIED IN ICC-ES BUILDING CODE REPORTS ESR 2213 OR ESR 2932.
6. ROOF MOUNTED EXHAUST FAN IS MOUNTED ON A HINGED BASE WHICH ALLOWS ACCESS TO THE DUCT FROM THE ROOF. SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE AT LEAST A MINIMUM OF 3/8 IN. DIAMETER. USE MINIMUM 2 x 2 x 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
7. THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
8. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED ON THE DUCT FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.



7 GREASE DUCT WRAP DETAIL
NO SCALE



8 RTU DETAIL
NO SCALE

CONSULTANT
DUNHAM
 DUNHAM
 50 South Sixth Street / Suite 1100
 Minneapolis, Minnesota 55402-1540
 PHONE 612.465.7550
 FAX 612.465.7551
 WEB dunhameng.com
 mechanical + electrical
 consulting engineering
 PROJECT NO.: 0425995-191

CLIENT
WINGSTOP
 WINGSTOP RESTAURANTS, INC.
 2801 N. CENTRAL EXPRESSWAY
 SUITE 1600, DALLAS, TX 75204
 TELEPHONE: (972) 686-6500
 FAX: (972) 656-6502

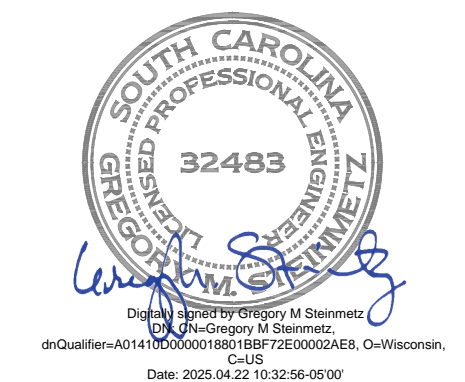
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PROJECT INFORMATION:

WINGSTOP
 STORE NUMBER: GL#AB545
 TOWN CENTER COMMONS
 224 FRESH DRIVE, SUITE B
 MYRTLE BEACH, SC 29579

SEAL:



PROJECT NO. 2025-0063
 DRAWN BY JLS
 CHECKED BY GMS
 ISSUE DATE
 PERMIT & BID SET 2025-04-24

REVISION DATE

WRI-DELCO_v103

PROJECT LOCATION
MYRTLE BEACH, SC

SHEET NUMBER / TITLE
M3

MECHANICAL DETAILS

DIVISION 15000 - MECHANICAL

SECTION 15001 - BASIC MECHANICAL REQUIREMENTS GENERAL CONDITIONS

- 1. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND ALL OTHER SPECIFICATION SECTIONS, APPLY TO THIS AND THE OTHER SECTIONS OF DIVISION 15000.
2. THE CONTRACTOR FOR THIS DIVISION OF WORK IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL DIVISIONS OF WORK AND IS RESPONSIBLE FOR THE COORDINATION OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS WITH ALL DIVISIONS OF WORK.
3. THIS CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE COMPLETION AND INSPECTION OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS TO COMPLY WITH THE SCHEDULE AND THE PROJECT SUBLETION DATE.
4. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTORS BID.
5. REFER TO RESPONSIBILITY SCHEDULE FOR INFORMATION IN REGARD TO RESPONSIBILITY OF WORK OR ITEMS WHICH MAY AFFECT BID.

SECTION 15002 - GENERAL REQUIREMENTS

- 1. THIS CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE MECHANICAL SYSTEM AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE LANDLORD OR TENANT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
2. DRAWINGS AND SPECIFICATION ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER. WORK SPECIFIED BUT NOT SHOWN ON DRAWINGS, OR SHOWN ON DRAWINGS BUT NOT SPECIFIED, SHALL BE PERFORMED OR FURNISHED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS.
3. WHERE THE DRAWINGS OR SPECIFICATIONS CALL FOR ITEMS WHICH EXCEED CODES OR THE LANDLORD'S TENANT CRITERIA, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING THE SYSTEM WITH THE MORE STRINGENT REQUIREMENTS AS DESIGNED AND DESCRIBED ON THESE DRAWINGS.
4. ALL MECHANICAL OPERATIONS AND CONSTRUCTION ACTIVITIES TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING, AND REPAIRING.
5. ALL WORK SHALL BE PERFORMED IN A NEAT PROFESSIONAL MANNER USING GOOD ENGINEERING AND CONSTRUCTION PRACTICES.
6. UNLESS SPECIFICALLY NOTED OTHERWISE, MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW, UNDERWRITERS LABORATORIES LISTED AND LABELED AND SIZED IN CONFORMITY WITH REQUIREMENTS OF STATE AND LOCAL CODES.

SECTION 15003 - CODES

- 1. ALL WORK SHALL CONFORM TO THE LANDLORDS' CRITERIA, THE STATES, COUNTY'S, CITY'S AND LOCAL CODES AND ORDINANCES, SAFETY AND HEALTH CODES, NFPA CODES, ENERGY CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS.
2. MECHANICAL CONTRACTOR SHALL SUBMIT ONLY SUBSTITUTION REQUESTS TO TENANT'S PROJECT MANAGER THROUGH PRIOR SHOP DRAWING SUBMITTAL PROCESS.
3. ALL ASPECTS TO THAT SPECIFIED WILL BE SUBJECT TO APPROVAL IN WRITING BY TENANT'S PROJECT MANAGER THROUGH PRIOR SHOP DRAWING SUBMITTAL PROCESS.

SECTION 15004 - LICENSES, PERMITS, INSPECTIONS & FEES

- 1. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS, AND FEES REQUIRED OR RELATED TO THEIR WORK.
2. FURNISH TO TENANT'S PROJECT MANAGER ALL CERTIFICATES OF INSPECTION AND FINAL INSPECTION APPROVAL AT COMPLETION OF PROJECT.

SECTION 15005 - TRADE NAMES, MANUFACTURERS AND SHOP DRAWINGS

- 1. WHERE TRADE NAMES AND MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE EXACT EQUIPMENT SHALL BE USED AS A MINIMUM FOR THE BASE BID.
2. MECHANICAL CONTRACTOR SHALL SUBMIT ONLY SUBSTITUTION REQUESTS TO TENANT'S PROJECT MANAGER THROUGH PRIOR SHOP DRAWING SUBMITTAL PROCESS.
3. MECHANICAL CONTRACTOR SHALL SUBMIT ONLY SUBSTITUTION REQUESTS TO TENANT'S PROJECT MANAGER THROUGH PRIOR SHOP DRAWING SUBMITTAL PROCESS.

SECTION 15006 - GUARANTEE

- 1. THIS CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORK PROVIDED UNDER THEIR CONTRACT AND SHALL MAKE GOOD, REPAIR OR REPLACE AT THEIR OWN EXPENSE, ANY DEFECTIVE WORK, MATERIAL, OR EQUIPMENT WHICH MAY BE DISCOVERED WITHIN A PERIOD OF 12 MONTHS FROM THE DATE OF ACCEPTANCE.
2. MECHANICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORK PROVIDED UNDER THEIR CONTRACT AND SHALL MAKE GOOD, REPAIR OR REPLACE AT THEIR OWN EXPENSE, ANY DEFECTIVE WORK, MATERIAL, OR EQUIPMENT WHICH MAY BE DISCOVERED WITHIN A PERIOD OF 12 MONTHS FROM THE DATE OF ACCEPTANCE.

SECTION 15007 - RECORD DRAWINGS

- 1. THIS CONTRACTOR SHALL MAINTAIN ONE COPY OF DRAWINGS ON THE JOB SITE TO RECORD DEVIATIONS FROM CONTRACT DRAWINGS, SUCH AS:
2. REVISIONS, ADDENDUMS, AND CHANGE ORDERS.
3. SIGNIFICANT DEVIATIONS MADE NECESSARY BY FIELD CONDITIONS, APPROVED EQUIPMENT SUBSTITUTIONS, AND CONTRACTOR'S COORDINATION WITH OTHER TRADES.
4. AT COMPLETION OF THE PROJECT AND BEFORE FINAL APPROVAL, THE CONTRACTOR SHALL MAKE ANY FINAL CORRECTIONS TO DRAWINGS AND CERTIFY THE ACCURACY OF EACH PRINT BY SIGNATURE THEREON.

SECTION 15008 - DISCREPANCIES IN DOCUMENTS

- 1. DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER. WORK SPECIFIED BUT NOT SHOWN ON DRAWINGS, OR SHOWN ON DRAWINGS BUT NOT SPECIFIED, SHALL BE PERFORMED OR FURNISHED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS.
2. UNLESS SPECIFICALLY NOTED OTHERWISE, MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW, UNDERWRITERS LABORATORIES LISTED AND LABELED AND SIZED IN CONFORMITY WITH REQUIREMENTS OF STATE AND LOCAL CODES.

SECTION 15009 DEMOLITION

- 1. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE DEMOLITION OF EXISTING WORK AND THE DEMOLITION PROVIDED BY THE GENERAL CONTRACTOR.
2. EACH CONTRACTOR SHALL VERIFY SCOPE OF WORK WITH THE GENERAL CONTRACTOR FOR THE REMOVAL OF ALL EXISTING FIRE PROTECTION, PLUMBING FIXTURES, PIPING, HVAC UNITS, REFRIGERANT RECAPTURE, EXHAUST FANS, ETC.
3. THIS CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE COMPLETION AND INSPECTION OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS TO COMPLY WITH THE SCHEDULE AND THE PROJECT SUBLETION DATE.

SECTION 15010 - CUTTING AND PATCHING

- 1. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING AS REQUIRED FOR THE INSTALLATION OF THE WORK UNDER THIS SPECIFICATION.
2. PATCHING SHALL BE OF THE SAME WORKMANSHIP, MATERIAL AND FINISH AND SHALL MATCH ACCURATELY ALL SURROUNDING CONSTRUCTION.
3. EXISTING UTILITIES, ETC. THAT ARE DAMAGED DURING THE CONSTRUCTION PERIOD, WHETHER OR NOT DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AND LEFT IN A CONDITION SUITABLE TO THE LANDLORD AND TENANT'S PROJECT MANAGER.

SECTION 15011 - SLEEVES

- 1. THIS CONTRACTOR SHALL PROVIDE SLEEVES TO PROTECT EQUIPMENT OR FACILITIES IN THE INSTALLATION.
2. ALL SLEEVES AND OPENINGS THROUGH FIRE RATED WALLS AND/OR FLOORS SHALL BE FIRE SEALED WITH CALCIUM SILICATE, SILICONE "RTV" FOAM, "3M" FIRE RATED SEALANTS OR EQUIVALENTS TO RETAIN THEIR FIRE RATING.
3. SLEEVES IN BEARING AND MASONRY WALLS, FLOORS, AND PARTITIONS SHALL BE STANDARD WEIGHT STEEL PIPE FINISHED WITH SMOOTH EDGES.
4. ALL SLEEVES AND OPENINGS THROUGH FIRE RATED WALLS AND/OR FLOORS SHALL BE FIRE SEALED WITH CALCIUM SILICATE, SILICONE "RTV" FOAM, "3M" FIRE RATED SEALANTS OR EQUIVALENTS TO RETAIN THEIR FIRE RATING.

SECTION 15012 - HANGERS

- 1. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS ANGLE IRON, BANDS, C-CLAMPS WITH RETAINING CLIPS, CHANNELS, HANGER RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK.
2. HANGERS ATTACHED TO BUILDING STEEL, CONCRETE, OR MASONRY, BUT NOT TO PIPING.
3. HANGERS MUST BE ATTACHED TO UPPER CHORD OF BAR JOIST.
4. HANGERS AND PIPING OF DISSIMILAR METALS SHALL BE DI-ELECTRICALLY SEPARATED.

DIVISION 15300 - FIRE PROTECTION (IF APPLICABLE)

SECTION 15301 - SUMMARY OF WORK

- 1. INSTALLATION OF NEW WET SPRINKLER SYSTEM AS REQUIRED TO PROVIDE COVERAGE IN ACCORDANCE, NFPA-13, LOCAL CODES, AND LANDLORD'S CRITERIA.
2. TAPS, RISERS, LATERALS, BRANCHES, VALVES, ALARMS, SPRINKLER HEADS AND ALL COMPONENTS REQUIRED FOR A COMPLETE SYSTEM.
3. DESIGN DRAWINGS, HYDRAULIC CALCULATIONS, SUBMITTALS AND APPROVALS.
4. PERMITS, FEES, INSPECTIONS AND CHARGES.
5. TESTS AND TEST CERTIFICATES AS REQUIRED THAT THE CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.

SECTION 15302 - MATERIALS

- 1. ALL SPRINKLER HEADS SHALL BE NEW UL, F.M. LISTED AND APPROVED AUTOMATIC SPRAY TYPE AS MANUFACTURED BY GRINNELL, RELIABLE, STAR, OR VIKING.
2. ALL SPRINKLER HEADS SHALL HAVE ORDINARY TEMPERATURE RATING UNLESS INDICATED OTHERWISE ON DRAWINGS OR REQUIRED BY LOCAL CODES.
3. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR SUBMITTING COORDINATED DRAWINGS, HYDRAULIC CALCULATIONS, HEAD TYPES AND COLORS TO ALL AUTHORITIES HAVING JURISDICTION FOR APPROVAL.
4. SCHEDULE 40, BLACK STEEL PIPE, ASTM A-53 FOR FERROUS PIPING, WELDED AND SEAMLESS, ANSI B-36-10-70 FOR WROUGHT STEEL PIPE.
5. HANGERS SHALL COMPLY WITH LANDLORD AND CODE REQUIREMENTS.

SECTION 15303 - HEATING, VENTILATING, AIR CONDITIONING

- 1. PROVIDE AND INSTALL A VALVED TEST CONNECTION IN AN ACCESSIBLE LOCATION FOR THE SPRINKLER SYSTEM AS REQUIRED OR REQUESTED BY THE MALL, LOCAL INSPECTOR, OR TENANT'S INSURANCE CARRIER.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE CAUSED BY LEAKS IN ANY OF THE EQUIPMENT INSTALLED BY THEM.
3. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE CAUSED BY LEAKS IN ANY OF THE EQUIPMENT INSTALLED BY THEM.

DIVISION 15400 - PLUMBING

SECTION 15401 - SUMMARY OF WORK

- 1. CONTRACTOR SHALL DETERMINE THE LOCATION OF EXISTING WATER SUPPLY AND DRAIN LINES AND MAKE PROPER CONNECTIONS, THERETO, INCLUDING WELDED JOINTS AND MAKE PROPER CONNECTIONS, THERETO, INCLUDING WELDED JOINTS.
2. ALL MATERIALS SHALL BE NEW AND SHALL FIT THE SPACE AVAILABLE.
3. ALL VALVES, CLEANOUTS, ETC. SHALL BE SO LOCATED AND INSTALLED TO PERMIT ACCESS FOR SERVICE WITHOUT DAMAGE TO BUILDING OR FINISHED MATERIALS.

SECTION 15402 MATERIALS

- 1. REFER TO PLANS FOR SCHEDULES OF EQUIPMENT AND FIXTURES, AMERICAN STANDARD, KOHLER AND CRANE ARE CONSIDERED ACCEPTABLE AS EQUALS.
2. CAST IRON PIPE (BELOW GRADE): CISPI 301, HUBLESS FITTINGS: CAST IRON, JOINTS: NEOPRENE GASKET AND STAINLESS STEEL CLAMP AND SHIELD ASSEMBLIES.
3. ABS PIPE (BELOW GRADE): ASTM D2661, FITTINGS: ABS, JOINTS: SOLVENT WELD.
4. PVC PIPE (BELOW GRADE): ASTM D2665, FITTINGS: PVC, JOINTS: SOLVENT WELD WITH SOLVENT CEMENT.
5. COPPER TUBE (ABOVE GRADE): ASTM B88 TYPE "L", HARD TEMPER ONLY EXCEPT THESE MATERIALS SHALL NOT BE USED TO RECEIVE THE WASTES FROM URINALS OR NRO WASTES FROM WATER CLOSETS IN BATTERY, FITTINGS: CAST BRONZE, OR WROUGHT COPPER, JOINTS: SOLDER, GRADE 50B.
6. INSULATE ALL HORIZONTAL RUNS OF PIPING LOCATED IN CEILING SPACES OF TENANTS IN SPACES BELOW, WHEN APPLICABLE.

SECTION 15502 - MATERIALS

- 1. REFER TO PLANS FOR SCHEDULES OF EQUIPMENT. ALL EQUIPMENT SHALL BE COMPLETE IN EVERY RESPECT WITH ALL DEVICES, APPURTENANCES, AND ACCESSORIES PROVIDED TO MEET THE DESIGN INTENT AND OPERATION OF THE SYSTEMS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
2. METAL DUCTWORK - NO FIBERGLASS DUCT ALLOWED.
3. EXCEPT AS OTHERWISE INDICATED, FABRICATE AND INSTALL RECTANGULAR AND ROUND DUCTWORK WITH GALVANIZED STEEL.
4. ALL JOINTS AND SEAMS SHALL BE SEALED WITH UNITED MCGILL DUCT SEALER OR EQUAL.
5. ALL DUCTWORK SHALL BE INSTALLED WITH INSIDE CLEAR DIMENSIONS AS NOTED ON DRAWINGS.
6. FLEXIBLE COLLARS AT EQUIPMENT SHALL BE PROVIDED IN ALL CONNECTIONS BETWEEN VIBRATING EQUIPMENT AND DUCTS OR CASINGS.
7. INSULATE ALL HOT WATER, COLD WATER AND INTERIOR CONDENSATE PIPING WITH 1" THICK (K=0.23 @ 75 F) UL PIPE INSULATION WITH AN ALL SERVICE JACKET TO MEET LOCAL CODES AND UL FLAME SPREAD AND SMOKE DEVELOPED RATINGS.

K. REFRIGERANT PIPING:

- 1. PROVIDE A COMPLETE REFRIGERANT PIPING SYSTEM BETWEEN THE EVAPORATOR COIL AND CONDENSING UNIT, IF APPLICABLE.
2. PIPING:
A. REFRIGERANT PIPING SHALL BE TYPE "L" HARD DRAWN COPPER TUBING (ASTM B88), TUBING SHALL BE CLEAN, CAPPED AND NITROGEN CHARGED.
B. ALL FITTINGS AND JOINTS SHALL BE WROUGHT COPPER OR CAST BRONZE (ANSI B16.22).
3. INSTALLATION:
A. SUCTION LINES SHALL HAVE ADEQUATE LIFT TRAPS AND/OR DOUBLE SUCTION RISERS TO MEET THE REQUIREMENTS OF FIELD CONDITIONS AND EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
B. HANGERS SHALL BE SIZED AND INSTALLED FOR THE OUTSIDE DIAMETER OF THE INSULATED PIPE.
4. TESTING, ADJUSTING, AND BALANCING:
1. CONTRACTOR SHALL BALANCE, ADJUST & TEST EQUIPMENT TO PROVIDE DESIGN AIR QUANTITIES AND ASSURE PROPER OPERATION OF SYSTEMS.
2. CONTRACTOR SHALL SUBMIT COPIES OF BALANCE/TEST REPORT TO OWNER FOR REVIEW PRIOR TO COMPLETION OF PROJECT.
3. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH LANDLORD AND LOCAL AUTHORITY HAVING JURISDICTION.
4. CONTRACTOR SHALL BALANCE, ADJUST & TEST EQUIPMENT TO PROVIDE DESIGN AIR QUANTITIES AND ASSURE PROPER OPERATION OF SYSTEMS.

CONSULTANT: DUNHAM ASSOCIATES, INC. 50 South Sixth Street / Suite 1100 Minneapolis, Minnesota 55402-1540 Phone: 612.465.7550 Fax: 612.465.7551 Web: dunhameng.com

CLIENT: WING-STOP RESTAURANTS, INC. 2801 N. CENTRAL EXPRESSWAY SUITE 1600, DALLAS, TX 75204 Phone: (972) 686-6500 Fax: (972) 656-6502

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WING-STOP STORE NUMBER: GL#AB545 TOWN CENTER COMMONS 224 FRESH DRIVE, SUITE B MYRTLE BEACH, SC 29579

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MECHANICAL ABBREVIATIONS			
AD	AREA DRAIN	ISO	ISOLATION EXHAUST
A.F.F.	ABOVE FINISHED FLOOR	KW	KILOWATT
AFMS	AIR FLOW MEASURING STATION	LAT	LEAVING AIR TEMPERATURE
AHU	AIR HANDLING UNIT	LAV	LAVATORY
ANB	ACID NEUTRALIZING BASIN	LWT	LEAVING WATER TEMPERATURE
AP	ACCESS PANEL	MBH	BTU PER HOUR (THOUSANDS)
ARCH	ARCHITECT	MCF	THOUSAND CUBIC FEET
AS	AIR SEPARATOR	MH	MANHOLE
BD	BUTTERFLY DAMPER	NC	NOISE CRITERIA OR NORMALLY CLOSED
B/G	BELOW GRADE	NEG	NEGATIVE
BTU	BRITISH THERMAL UNIT	NIC	NOT IN CONTRACT
BWV	BACKWATER VALVE	NO	NORMALLY OPEN
CCF	HUNDRED CUBIC FEET	NTS	NOT TO SCALE
CFH	CUBIC FEET PER HOUR	OA	OUTSIDE AIR
CFM	CUBIC FEET PER MINUTE	OBD	OPPOSED BLADE DAMPER
CL	CENTER LINE	ORD	OVERFLOW ROOF DRAIN
CLG	CEILING	PD	PRESSURE DROP OR DIFFERENCE
CO	CLEAN OUT	PE	PNEUMATIC-ELECTRIC
CONTR	CONTRACTOR	PLBG	PLUMBING
CONV	CONVECTOR	PRV	PRESSURE REDUCING VALVE OR POWER ROOF VENTILATOR
CUH	CABINET UNIT HEATER	PSIA	POUNDS/SQ INCH ABSOLUTE
CW	COLD WATER	PSIG	POUNDS/SQ INCH GAUGE
DB	DECIBEL	PVC	POLY VINYL CHLORIDE
DF	DRINKING FOUNTAIN	RA	RETURN AIR
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DIF	DIFFUSER	RD	ROOF DRAIN
DISCH	DISCHARGE	RECIRC	RECIRCULATING
DMPR	DAMPER	REG	REGISTER
DN	DOWN	RET	RETURN
DR	DRAIN	RH	RELATIVE HUMIDITY
DSN	DOWNSPOUT NOZZLE	RHT	REHEAT
DWG	DRAWING	RHC	REHEAT COIL
EAT	ENTERING AIR TEMPERATURE	RHW	RECIRCULATED HOT WATER
EDR	EQUIVALENT DIRECT RADIATION	RLF	RELIEF
EP	ELECTRIC-PNEUMATIC	RM	ROOM
EWC	ELECTRIC WATER COOLER	RPM	REVOLUTIONS PER MINUTE
EWT	ENTERING WATER TEMPERATURE	RPZ	REDUCED ZONE BACKFLOW PREVENTER
EXH	EXHAUST	SA	SUPPLY AIR
EXP	EXPANSION	SAN	SANITARY
F	FAHRENHEIT	SCFM	CFM, STANDARD CONDITIONS
FC	FAN COIL	SD	SMOKE DAMPER
FCO	FLOOR CLEAN OUT	SP	STATIC PRESSURE
FD	FLOOR DRAIN	SPECS	SPECIFICATIONS
FHC	FIRE HOSE CABINET	SUP	SUPPLY
FHR	FIRE HOSE RACK	SQ	SQUARE
FLR	FLOOR	STM	STEAM
FLEX	FLEXIBLE	TD	TEMPERATURE DIFFERENCE
FM	FIRE MAIN	TEMP	TEMPERATURE
FPM	FEET PER MINUTE	TONS	TONS OF REFRIGERATION
FPS	FEET PER SECOND	T-STAT	THERMOSTAT
FT	FEET OR FOOT	TYP	TYPICAL
F&T	FLOAT AND THERMOSTATIC	UB	UP-BLAST
FTG	FOOTING	UG	UNDERGROUND
FTR	FINNED TUBE RADIATION	UH	UNIT HEATER
FV	FACE VELOCITY	UR	URINAL
GA	GAUGE	V	SANITARY VENT
GAL	GALLON	VAV	VARIABLE AIR VOLUME
GEXH	GREASE EXHAUST	VD	VOLUME DAMPER
GPH	GALLONS PER HOUR	VEL	VELOCITY
GPM	GALLONS PER MINUTE	VFD	VARIABLE FREQUENCY DRIVE
GR	GRILLE	VOL	VOLUME
HB	HOSE BIBB	VTR	VENT THROUGH ROOF
HD	HEAD	VTR	VENT THROUGH ROOF
HOA	HANDS-OFF-AUTOMATIC	W	SANITARY WASTE
HTG	HEATING	W/	WITH
HTR	HEATER	W/O	WITHOUT
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	WC	WATER CLOSET
HYD	HYDRANT	WCO	WALL CLEANOUT
HW	HOT WATER	WH	WALL HYDRANT
GCO	GRADE CLEANOUT	WTR	WATER
INSUL	INSULATION		
INV	INVERT		

MECHANICAL SYMBOLS LEGEND		MECHANICAL SYMBOLS LEGEND		MECHANICAL SYMBOLS LEGEND		MECHANICAL SYMBOLS LEGEND	
SYMBOL	DESIGNATIONS	SYMBOL	DESIGNATIONS	SYMBOL	DESIGNATIONS	SYMBOL	DESIGNATIONS
GENERAL				PIPE FITTINGS			
---	LIGHT SOLID LINE WEIGHT INDICATES EXISTING ITEM TO REMAIN.		CONNECTION, BOTTOM		CONNECTION, TOP		CONCENTRIC REDUCER
----	DARK DASHED LINE WEIGHT INDICATES EXISTING ITEM TO BE DEMOLISHED.		ECCENTRIC REDUCER		ELBOW		ELBOW DOWN
---	DARK SOLID LINE WEIGHT INDICATES NEW ITEM OR NEW LOCATION.		ELBOW UP		PIPE CAP		PIPE FLANGE
PLUMBING				PIPE SPECIALTIES			
---	ACID VENT		ALIGNMENT GUIDE		AUTOMATIC AIR VENT		AUTOMATIC CONTROL VALVE, 2-WAY
---	ACID WASTE		AUTOMATIC CONTROL VALVE, 3-WAY		BACKWATER VALVE		CATCH BASIN
---	CLEAR WATER VENT		CLEANOUT		COMBINATION BALANCE VALVE AND FLOW METER		DIAPHRAGM
---	CLEAR WATER WASTE		DRAIN ABOVE		DRAIN VALVE		DUPLEX STRAINER
---	COMPRESSED AIR (PSI INDICATED)		EXPANSION JOINT		FLEXIBLE CONNECTION		FLOOR DRAIN
---	DEIONIZED WATER		FLOOR SINK		FLOW DIRECTION		FLOW DIRECTION W/PITCH
---	DOMESTIC COLD WATER		FLOW MEASURING STATION (FLOW INDICATED)		FLOW SWITCH		GAS COCK VALVE
---	DOMESTIC HOT WATER		FLOW SWITCH		GAS PRESSURE REGULATOR VALVE		HOSE BIBB
---	DOMESTIC HOT WATER (TEMP. INDICATED)		MANHOLE		MANUAL AIR VENT		PIPE ANCHOR
---	DOM. RECIRC. HOT WATER (TEMP. INDICATED)		MANUAL AIR VENT		PRESSURE GAUGE W/PIGTAIL & PETCOCK		PRESSURE REDUCING VALVE (SETTING AS NOTED, PSI)
---	FILTERED WATER		PRESSURE RELIEF/SAFETY VALVES (SETTING AS NOTED, PSI)		PRESSURE SWITCH		PRESSURE/TEMPERATURE TEST PORT
---	GREASE WASTE		REDUCED PRESSURE ZONE BACKFLOW PREVENTER		PUMP		REFRIGERANT DRYER
---	HARD COLD WATER		REFRIGERANT SIGHT GLASS		ROOF DRAIN		SHOCK ABSORBER
---	NON-POTABLE COLD WATER		STEAM TRAP (TYPE INDICATED)		STRAINER		STRAINER W/BLOWDOWN CAP AND VALVE
---	NON-POTABLE HOT WATER		THERMOMETER		WALL CLEANOUT		WALL HYDRANT
---	OVERFLOW STORM DRAIN						
---	OVERFLOW STORM DRAIN						
---	PUMPED ACID WASTE						
---	PUMPED STORM						
---	PUMPED WASTE						
---	REVERSE OSMOSIS WATER						
---	SANITARY VENT						
---	SANITARY WASTE						
---	SOFTENED COLD WATER						
---	SOIL DRAINAGE TILE						
---	SOFTENED HOT WATER						
---	STORM DRAIN						
---	TEMPERED WATER						
---	WELL WATER						
MECHANICAL PIPING				DUCTWORK			
---	ATMOSPHERIC STEAM SUPPLY		DUCT SUPPLY GRILLE, REGISTER, & DIFFUSER IDENTIFICATION		DUCT TRANSITION		DUCT OFFSETS
---	ATMOSPHERIC STEAM CONDENSATE		DUCT TRANSITION		DUCT OUTLINE		POINT OF CONNECTION, NEW TO EXISTING
---	BOILER FEED		POINT OF DISCONNECTION				
---	CHILLED WATER SUPPLY						
---	CHILLED WATER RETURN						
---	CONDENSATE DRAIN						
---	CONDENSER WATER SUPPLY						
---	CONDENSER WATER RETURN						
---	FUEL OIL SUPPLY						
---	FUEL OIL RETURN						
---	FUEL OIL FILL						
---	FUEL OIL VENT						
---	GLYCOL SUPPLY						
---	GLYCOL RETURN						
---	HEAT RECOVERY SUPPLY						
---	HEAT RECOVERY RETURN						
---	HEATING WATER SUPPLY						
---	HEATING WATER RETURN						
---	INTERRUPTIBLE GAS						
---	LIQUIFIED PETROLEUM GAS						
---	NATURAL GAS (PSI INDICATED)						
---	PUMPED CONDENSATE						
---	RADIATION WATER SUPPLY						
---	RADIATION WATER RETURN						
---	REFRIGERANT LIQUID						
---	REFRIGERANT SUCTION						
---	REFRIGERANT HOT GAS BYPASS						
---	REHEAT WATER SUPPLY						
---	REHEAT WATER RETURN						
---	REMOTE RADIATOR SUPPLY						
---	REMOTE RADIATOR RETURN						
---	SECONDARY HEATING WATER SUPPLY						
---	SECONDARY HEATING WATER RETURN						
---	SNOW MELT SUPPLY						
---	SNOW MELT RETURN						
---	STEAM SUPPLY (PSI INDICATED)						
---	STEAM CONDENSATE (PSI INDICATED)						
MECHANICAL GAS				PROCESS AND LABORATORY			
	AREA ALARM PANEL		CLEAN DRY AIR		DEIONIZED WATER		HOUSE VACUUM
	COMBINATION AREA/MASTER ALARM PANEL		LABORATORY AIR		LABORATORY VACUUM		LIQUID NITROGEN
	MASTER ALARM PANEL		NITROGEN		PLANT VACUUM		NITROGEN OXIDE
	ZONE VALVE BOX		REVERSE OSMOSIS		WASTE ANESTHETIC GAS DISPOSAL		
	CARBON DIOXIDE						
	INSTRUMENT AIR						
	MEDICAL AIR						
	MEDICAL VACUUM						
	NITROGEN						
	NITROUS OXIDE						
	OXYGEN						
	WASTE ANESTHETIC GAS DISPOSAL						
MECHANICAL PIPING				FIRE PROTECTION			
	BUTTERFLY VALVE W/TAMPER SWITCH		DETECTOR CHECK W/BYPASS METER		DRY PIPE VALVE		FIRE DEPT VALVE W/CAP AND CHAIN
	FIRE HYDRANT WITH SHUTOFF VALVE		FIRE PROTECTION		FIRE PROTECTION RISER		FLUSH FIRE DEPT CONNECTION
	FIRE PROTECTION (DRY SYSTEM)		GRADE FIRE DEPT CONNECTION		O.S. & Y. VALVE W/TAMPER SWITCH		PENDANT SPRINKLER HEAD
	FIRE PROTECTION RISER		POST INDICATOR VALVE (PIV)		PREACTION VALVE		RECESSED FIRE DEPT CABINET
	FLUSH FIRE DEPT CONNECTION		SURFACE MOUNTED FIRE DEPT CABINET		SIDEWALL SPRINKLER HEAD		SURFACE MOUNTED FIRE DEPT CABINET
	GRADE FIRE DEPT CONNECTION		UPRIGHT SPRINKLER HEAD		UPRIGHT SPRINKLER HEAD W/GUARD		
	O.S. & Y. VALVE W/TAMPER SWITCH						
	PENDANT SPRINKLER HEAD						
	POST INDICATOR VALVE (PIV)						
	PREACTION VALVE						
	RECESSED FIRE DEPT CABINET						
	SIDEWALL SPRINKLER HEAD						
	SURFACE MOUNTED FIRE DEPT CABINET						
	UPRIGHT SPRINKLER HEAD						
	UPRIGHT SPRINKLER HEAD W/GUARD						
MECHANICAL PIPING				ANNOTATION			
	DUCT SUPPLY GRILLE, REGISTER, & DIFFUSER IDENTIFICATION		DUCT TRANSITION		DUCT OFFSETS		POINT OF CONNECTION, NEW TO EXISTING
	DUCT TRANSITION		DUCT OUTLINE		POINT OF DISCONNECTION		
	DUCT OFFSETS						
	POINT OF CONNECTION, NEW TO EXISTING						
	POINT OF DISCONNECTION						

MECHANICAL SHEET LIST	
SHEET NUMBER	SHEET NAME
M0	MECHANICAL SYMBOLS AND ABBREVIATIONS
M1	MECHANICAL FLOOR PLAN
M2	MECHANICAL SCHEDULES
M3	MECHANICAL DETAILS
M4	MECHANICAL & PLUMBING SPECIFICATIONS
H1	HOOD PLANS - SHOWN FOR REFERENCE
H2	HOOD PLANS - SHOWN FOR REFERENCE
H3	HOOD PLANS - SHOWN FOR REFERENCE
H4	HOOD PLANS - SHOWN FOR REFERENCE
H5	HOOD PLANS - SHOWN FOR REFERENCE
H6	HOOD PLANS - SHOWN FOR REFERENCE
P1	PLUMBING FLOOR PLAN
P2	PLUMBING SCHEDULES
P3	PLUMBING RISER DIAGRAMS
P4	PLUMBING DETAILS
SHEET TOTAL: 15	

CONTROLS	
	AQUA STAT
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE SENSOR
	HUMIDISTAT OR R.H. SENSOR
	REFRIGERANT SENSOR
	ROOM PRESSURE MONITOR
	SMOKE DETECTOR
	SPACE TEMPERATURE SENSOR
	STATIC PRESSURE SENSOR
	TAMPERPROOF THERMOSTAT
	THERMOSTAT
	THERMOSTAT W/GUARD

GENERAL DUTY VALVES	
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	FLOW LIMITING VALVE
	GATE VALVE
	GLOBE ANGLE VALVE
	GLOBE VALVE
	O. S. & Y. VALVE
	PLUG VALVE
	SHUTOFF VALVE
	SOLENOID VALVE

CONSULTANT

DUNHAM
50 South Sixth Street / Suite 1100
Minneapolis, Minnesota 55402-1540
PHONE 612.465.7550
FAX 612.465.7551
WEB dunhameng.com

mechanical + electrical
consulting engineering
PROJECT NO.: 0425995-191

CLIENT

2801 N. CENTRAL EXPRESSWAY
SUITE 1600, DALLAS, TX 75204
TELEPHONE: (972) 686-6500
FAX: (972) 656-6502

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PROJECT INFORMATION:

WING-STOP
STORE NUMBER: GL#AB545
TOWN CENTER COMMONS
224 FRESH DRIVE, SUITE B
MYRTLE BEACH, SC 29579

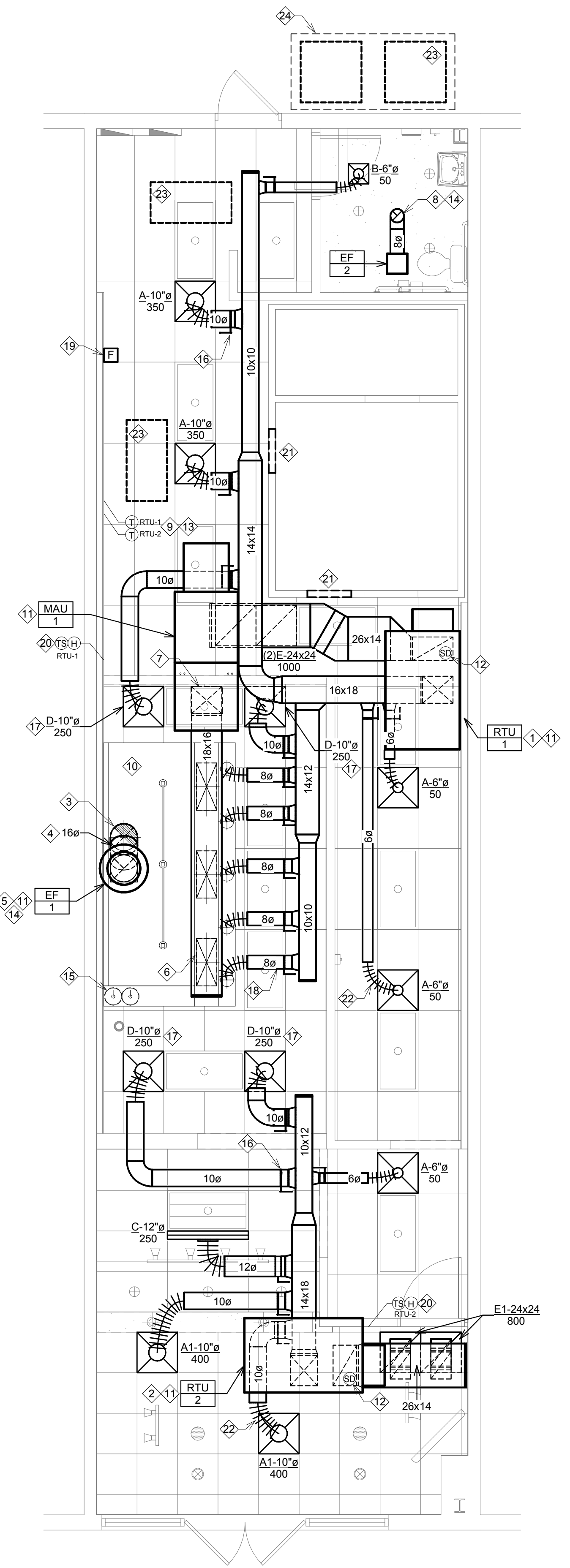
SEAL:

PROJECT NO. 2025-0063
DRAWN BY JLS
CHECKED BY GMS

ISSUE	DATE
PERMIT & BID SET	2025-04-24

REVISION DATE

WRI-DELCO_v103



1 MECHANICAL FLOOR PLAN
1/4" = 1'-0"

GENERAL NOTES:

- A. INSTALL VOLUME DAMPER IN DUCT TAKE-OFF TO EACH DIFFUSER, GRILLE, AND REGISTER.
- B. ALL DUCT DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR MAY, AT THEIR OPTION, REPLACE RECTANGULAR DUCTWORK SHOWN WITH ROUND, SPIRAL DUCT OF EQUIVALENT CAPACITY.
- C. IN GENERAL, ALL PIPING AND DUCTWORK SHALL BE RUN CONCEALED IN SUSPENDED CEILING SPACES AND IN SHAFTS PROVIDED UNLESS NOTED OR INDICATED OTHERWISE.
- D. VERIFY ALL DUCT CONNECTION SIZES TO FANS, COILS, AND EXISTING DUCTWORK.
- E. COOPERATE WITH THE OTHER TRADES TO ELIMINATE ANY CONFLICTS BETWEEN PIPING, DUCTWORK, STRUCTURAL, ELECTRICAL WORK, ETC.
- F. DIFFUSER, REGISTER, AND SPRINKLER HEAD LOCATIONS SHALL BE COORDINATED WITH LIGHT FIXTURE LOCATIONS AND SHALL BE IN ACCORDANCE WITH CEILING PATTERNS AS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS.
- G. ALL SQUARE DIFFUSERS SHALL HAVE THE AIR VOLUME EQUALLY IN FOUR DIRECTIONS UNLESS INDICATED OTHERWISE.
- H. MECHANICAL CONTRACTOR TO VERIFY RATINGS OF ALL WALLS WITH ARCHITECTURAL DRAWINGS. SEAL PIPE PENETRATIONS TO MATCH THE WALL RATINGS. PROVIDE ALL SUPPLY AND RETURN DUCTS PASSING THROUGH FIRE RATED WALLS WITH APPROVED FIRE DAMPERS.
- I. RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSERS NECK SIZE.
- J. TENANT'S CONTRACTORS SHALL VERIFY WITH HVAC PLAN TO COORDINATE THE REQUIREMENT OF PLENUM RATED FIXTURES, PIPING, WIRING, ETC. FAILURE TO DO SO COULD RESULT IN THE REMOVAL AND REPLACEMENT OF THESE ITEMS AT NO ADDITIONAL COST TO THE TENANT - NO PVC PIPING ALLOWED IN PLENUM.
- K. CONTRACTOR SHALL STENCIL TENANT NAME AND SPACE NUMBER ON UNIT.
- L. THE TENANT'S MECHANICAL CONTRACTOR SHALL GO TO THE SITE AND VERIFY THE SIZE, DESIGN, SUPPORT AND LOCATION FOR ALL EXISTING AND FUTURE MECHANICAL EQUIPMENT AND UTILITY TAPS PRIOR TO ANY EQUIPMENT ORDERING, WORK, DUCTWORK FABRICATION ETC. NOTIFY THE TENANT'S PROJECT MANAGER OR PROJECT ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES. FAILURE TO DO SO COULD RESULT IN EQUIPMENT AND/OR MATERIALS REPLACEMENT AT NO ADDITIONAL EXPENSE TO THE TENANT.
- M. ALL EQUIPMENT, INSTALLATIONS, AND MATERIAL SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES AND LANDLORD CRITERIA.
- N. REMOVE ALL UNUSED PIPING, DUCTWORK, AND ACCESSORIES - DO NOT ABANDON.
- O. VERIFY LOCATION OF ANY PENETRATION THRU ROOF WITH LANDLORD. ALL ROOF PENETRATIONS, PATCHING, AND FLASHING SHALL BE BY LANDLORD-APPROVED ROOFER AT MECHANICAL CONTRACTOR EXPENSE.
- P. PRIOR TO OCCUPANCY OF THE PREMISES, GENERAL CONTRACTOR IS REQUIRED TO PROVIDE AN AIR BALANCE REPORT. AN APPROVED, INDEPENDENT, CERTIFIED AIR-BALANCE COMPANY MUST PERFORM THE TEST REPORT.

GENERAL INSTRUCTION TO BIDDER:

EQUIPMENT SHALL BE TRANE WITH MODELS AND CONFIGURATIONS AS SHOWN. NO SUBSTITUTIONS ALLOWED WITHOUT PRIOR WRITTEN CONSENT FROM OWNER AND ENGINEER. FOR PRICING AND ORDERING PLEASE CONTACT:
 CONTACT: WINGSTOP NATIONAL ACCOUNT TEAM
 866-986-4822
 EMAIL: WINGSTOP@TRANE.COM
 ACCOUNT MANAGER: AUSTIN LUPTON

KEY NOTES:

- 1 MECHANICAL CONTRACTOR SHALL PROVIDE 5 TON ROOFTOP UNIT RTU-1. PROVIDE FLEXIBLE CONNECTORS FOR THE SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCTWORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO EQUIPMENT SCHEDULES FOR ADDITIONAL REQUIREMENTS.
- 2 MECHANICAL CONTRACTOR SHALL PROVIDE 5 TON ROOFTOP UNIT RTU-2. PROVIDE FLEXIBLE CONNECTORS FOR THE SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCTWORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO EQUIPMENT SCHEDULES FOR ADDITIONAL REQUIREMENTS.
- 3 16" DIA. EXHAUST RISER UP FROM HOOD COLLAR. EXTEND DUCT UP TO EF-1 WITH OFFSET. REFER TO HOOD PLANS FOR MORE INFORMATION.
- 4 FACTORY BUILT, SINGLE WALL, STAINLESS STEEL GREASE EXHAUST DUCT. DUCT SHALL HAVE UL-1978 LISTING AND BE WRAPPED WITH CLEARANCE REDUCING INSULATION TO COMPLY WITH ASTM E2336. INSTALL IN STRICT CONFORMANCE WITH MANUFACTURER INSTRUCTIONS. EXTEND FROM HOOD EXHAUST COLLAR TO FAN INLET. INSTALL ALL TRANSITIONS AND ACCESS PORTS AS REQUIRED FOR COMPLIANCE WITH NFPA-96. GREASE DUCT AND DUCT WRAP SHALL BE FURNISHED AS PART OF HOOD PACKAGE AND INSTALLED BY MECHANICAL CONTRACTOR. REFER TO HOOD PLANS FOR MORE INFORMATION.
- 5 ROOF MOUNTED UPBLAST KITCHEN EXHAUST FAN EF-1 FURNISHED BY HOOD VENDOR AND INSTALLED BY MECHANICAL CONTRACTOR. ROOF CURB PROVIDED BY MECHANICAL CONTRACTOR. SEE EQUIPMENT SCHEDULE AND HOOD DRAWINGS FOR ADDITIONAL INFORMATION.
- 6 28"x12" SUPPLY DUCT RISER UP FROM 28"x12" DUCT COLLAR (TYPICAL OF 3). EXTEND DUCT UP TO MAIN SUPPLY DUCT. BALANCE AIRFLOW TO 720 CFM EACH.
- 7 19"x16" UP THROUGH ROOF TO MAU-1 ON ROOF. ROOF MOUNTED KITCHEN MAKE-UP AIR UNIT (MAU-1) FURNISHED BY HOOD VENDOR AND INSTALLED BY MECHANICAL CONTRACTOR. ROOF CURB PROVIDED BY MECHANICAL CONTRACTOR. SEE EQUIPMENT SCHEDULE AND HOOD PLANS FOR ADDITIONAL INFORMATION. MAINTAIN MINIMUM 10 FEET CLEARANCE TO EXHAUST OUTLETS.
- 8 EXTEND DUCT FROM CEILING EXHAUST FAN TO 8" EXHAUST DUCT THROUGH ROOF. TERMINATE ROOF DUCT NO LESS THAN 10'-0" FROM ANY OUTSIDE AIR INTAKE. PROVIDE WEATHERPROOF CAP AND BIRDSCREEN.
- 9 PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT FOR RTU CONTROL. MOUNTED ON THE MANAGER'S DESK COVERED WITH CLEAR LOCKABLE BOX. THERMOSTAT SHALL HAVE AUTOMATIC NIGHT SET-BACK WITH 5°F DEADBAND, 2-HOUR OCCUPANT OVERRIDE, AND MIN. 10-HOUR BATTERY BACKUP.
- 10 EXHAUST HOOD TO BE FURNISHED BY HOOD VENDOR AND INSTALLED BY MECHANICAL CONTRACTOR. SEE HOOD DRAWINGS FOR ADDITIONAL INFORMATION. SEE ARCHITECTURAL DRAWINGS FOR HOOD MOUNTING LOCATION AND DIMENSIONS.
- 11 REFER TO STRUCTURAL DRAWINGS FOR EXACT EQUIPMENT LOCATION.
- 12 DUCT SMOKE DETECTOR FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR IN RETURN MAIN DUCT. SMOKE DETECTOR SHALL SHUT DOWN HVAC UNIT UPON DETECTION OF SMOKE AND BE CONNECTED TO THE FIRE ALARM SYSTEM.
- 13 PROVIDE TEST/RESET SWITCH AND PIEZO ALERT SOUNDER AND REMOTE ANNUNCIATOR ALARM LED MOUNTED AS DIRECTED BY LOCAL AHJ. MECHANICAL CONTRACTOR TO PROVIDE ALL REQUIRED INTERLOCK WIRING AND COORDINATE ALL FINAL CONNECTIONS.
- 14 CONTRACTOR SHALL ENSURE THAT EXHAUST FANS ARE AT LEAST 10'-0" AWAY FROM ANY FRESH INTAKES. EXHAUST OUTLETS WITHIN 10'-0" OF FRESH AIR INTAKES SHALL BE MIN. 3'-0" ABOVE INTAKE.
- 15 PRE-PIPED FIRE SUPPRESSION SYSTEM FURNISHED BY HOOD VENDOR WITH EXHAUST HOOD. SEE HOOD DRAWINGS FOR DETAILS. MECHANICAL CONTRACTOR SHALL INSTALL OWNER-FURNISHED FIRE SUPPRESSION GAS VALVE AND MAKE ALL ELECTRICAL CONNECTIONS. FIRE SYSTEM HOOKUP IS PROVIDED BY CAPTIVE AIRE.
- 16 VOLUME DAMPER AT DUCT CONNECTION TO MAIN SUPPLY AIR DUCT. TYPICAL.
- 17 SUPPLY AIR DIFFUSER CFM RATES SHALL BE ADJUSTED AS REQUIRED FOR PROPER AIR FLOW AROUND THE HOOD.
- 18 8"ø SUPPLY AIR DUCT DOWN TO HOOD SUPPLY DIFFUSER. TRANSITION AS REQUIRED. BALANCE TO 130 CFM EACH. TYPICAL OF (5).
- 19 FIRE SUPPRESSION SYSTEM PULL STATION. VERIFY EXACT LOCATION IN FIELD WITH LOCAL CODE OFFICIAL PRIOR TO INSTALLATION.
- 20 PROVIDE COMPATIBLE REMOTE TEMPERATURE AND HUMIDITY SENSORS. CONNECT TO CORRESPONDING THERMOSTAT. MOUNT 48" A.F.F. COORDINATE EXACT LOCATION WITH OWNER ON SITE.
- 21 PROVIDE TITUS 50F 26"x18" EGGCRATE TRANSFER AIR GRILLE IN VERTICAL SOFFIT ABOVE COOLER.
- 22 FLEX DUCT 5'-0" MAX LENGTH. TYPICAL FOR ALL.
- 23 DEMOLISH EXISTING CONDENSING UNITS, FAN COIL UNITS, SUPPORT RACKING, AND ALL ASSOCIATED DUCTWORK, REFRIGERANT PIPING, AND CONTROLS.
- 24 DEMOLISH EXISTING MAKE-UP AIR UNIT, STRUCTURAL PLATFORM, AND ALL ASSOCIATED DUCTWORK AND CONTROLS.

CONSULTANT
DUNHAM
 DUNHAM
 50 South Sixth Street / Suite 1100
 Minneapolis, Minnesota 55402-1540
 PHONE 612.465.7550
 FAX 612.465.7551
 WEB dunhameng.com
 mechanical + electrical
 consulting engineering
 PROJECT NO.: 0425995-191

CLIENT

 2801 N. CENTRAL EXPRESSWAY
 SUITE 1600, DALLAS, TX 75204
 TELEPHONE: (972) 686-6500
 FAX: (972) 656-6502

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PROJECT INFORMATION:

WINGSTOP
 STORE NUMBER: GL#AB545
 TOWN CENTER COMMONS
 224 FRESH DRIVE, SUITE B
 MYRTLE BEACH, SC 29579

SEAL:

 Andrew J. Metzler
 Professional Engineer
 License No. 32483
 State of South Carolina
 Mechanical Engineering
 Date of Issuance: 08/14/2013
 Expiration Date: 08/14/2018
 Title: 2013-2017 193268-0707

DUNHAM ASSOCIATES, INC.
 No. C01804
 STATE OF SOUTH CAROLINA
 PROFESSIONAL ENGINEER

PROJECT NO. 2025-0063
 DRAWN BY JLS
 CHECKED BY GMS

ISSUE	DATE
PERMIT & BID SET	2025-04-24

REVISION	DATE

WRI-DELCO_v103
 PROJECT LOCATION:
MYRTLE BEACH, SC
 SHEET NUMBER / TITLE:
M1
 MECHANICAL FLOOR PLAN



DUNHAM

DUNHAM
50 South Sixth Street / Suite 1100
Minneapolis, Minnesota 55402-1540
PHONE 612.465.7550
FAX 612.465.7551
WEB dunhameng.com

mechanical + electrical
consulting engineering
PROJECT NO.: 0425995-191

CLIENT



2801 N. CENTRAL EXPRESSWAY
SUITE 1600, DALLAS, TX 75204
TELEPHONE: (972) 686-6500
FAX: (972) 656-6502

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TOWN CENTER COMMONS
224 FRESH DRIVE, SUITE B
MYRTLE BEACH, SC 29579

SEAL:



PROJECT NO. 2025-0063
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ISSUE DATE
PERMIT & BID SET 2025-04-24

REVISION DATE

WRI-DELCO_v103

PROJECT LOCATION:
MYRTLE BEACH, SC

SHEET NUMBER / TITLE:
M2

MECHANICAL SCHEDULES

AIR BALANCE SCHEDULE						
TAG	OUTSIDE AIR (CFM)	RETURN AIR (CFM)	SUPPLY AIR (CFM)	EXHAUST AIR (CFM)	SPACE PRESSURE	NOTES
EF-1				2700	-2700	1
EF-2				100	-100	1
RTU-1	340	1660	2000		+340	1
RTU-2	400	1200	1600		+400	1
MAU-1	2160				+2160	1
TOTAL					+100	

1. GENERAL CONTRACTOR SHALL CONTRACT A SEPARATE TEST AND BALANCE CONTRACTOR FOR FINAL SETUP OF ALL SYSTEMS, THEIR OPERATION AND BALANCING.

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE								
EQUIPMENT TAG	APPLICATION	MOUNTING TYPE	DESCRIPTION	ACCESSORIES	FINISH	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
A	SUPPLY	LAY-IN	24" X 24" SUPPLY AIR DIFFUSER	OBD	WHITE	TITUS	TMS	1
A1	SUPPLY	LAY-IN	24" X 24" SUPPLY AIR DIFFUSER	OBD	BLACK	TITUS	TMS	1,2
B	SUPPLY	SURFACE	12" X 12" SUPPLY AIR DIFFUSER	OBD	WHITE	TITUS	TMS	1,3
C	SUPPLY	LAY-IN	48" LINEAR SLOT DIFFUSER		WHITE	TITUS	TBD-30	4
D	SUPPLY	LAY-IN	24" X 24" PERFORATED AIR GRILLE	OBD	WHITE	TITUS	PAR	5
E	RETURN	LAY-IN	EGGCRATE RETURN GRILLE		WHITE	TITUS	50F	6
E1	RETURN	LAY-IN	EGGCRATE RETURN GRILLE		BLACK	TITUS	50F	6, 2

MECHANICAL NOTES:

- SUPPLY AIR DIFFUSER WITH OPPOSED BLADE DAMPER.
- PROVIDE FLAT BLACK FACTORY FINISH.
- PROVIDE "TRM" PLASTER FRAME.
- LINEAR SLOT DIFFUSER WITH (3) 1" SLOTS - PROVIDE INSULATED PLENUM BOX.
- PERFORATED DIFFUSER WITHOUT PATTERN CONTROLLER FOR MINIMUM THROW.
- 1/2" X 1/2" X 1/2" EGGCRATE RETURN AIR GRILLE.

FAN SCHEDULE												
EQUIPMENT TAG	APPLICATION	TYPE	CFM	ESP (IN W.C.)	BHP	HP	RPM	DRIVE TYPE	ELECTRICAL DATA	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
EF 1	GREASE EXHAUST	UPBLAST	2700	1.2	1.15	2.0	1170	DIRECT	SEE ELEC	CAPTIVEAIRE / ECON-AIR	EADU180H	1,2,3,4
EF 2	TOILET EXHAUST	CEILING	100	0.25	FRAC.	FRAC.	803	DIRECT	SEE ELEC	BROAN	L100E	5,6,7,8

MECHANICAL NOTES:

- GREASE EXHAUST FAN FURNISHED BY HOOD VENDOR. INSTALLED BY MECHANICAL CONTRACTOR. SEE HOOD PLANS FOR ADDITIONAL INFORMATION.
- PROVIDE ROOF CURB FOR STANDING SEAM METAL ROOF. SEE HOOD PLANS FOR ADDITIONAL INFORMATION.
- REFER TO STRUCTURAL PLANS FOR EXACT LOCATION. VERIFY REQUIREMENTS IN FIELD PRIOR TO BID.
- FAN SHALL BEAR UL-762 "POWER VENT. FOR RESTAURANT EXHAUST APPLICATIONS" LISTING.
- FACTORY INSTALLED GRAVITY BACKDRAFT DAMPER.
- INTERLOCK WITH TOILET ROOM LIGHT SWITCH.
- GRAVITY BACKDRAFT DAMPER.
- PROVIDE WEATHER-PROOF ROOF CAP WITH BIRDSCREEN. SEE LOCATION ON PLANS.

MAKE UP AIR UNIT SCHEDULE											
EQUIPMENT TAG	SYSTEM	FAN			HEATING			ELECTRICAL DATA	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES
		CAPACITY (CFM)	S.P. INCHES W.G.	HP	ELECTRIC HEAT (KW)	HEATING OUTPUT (MBH)					
MAU 1	KITCHEN HOOD	2160	0.5	1	45	153.5	SEE ELEC.	CAPTIVEAIRE	E2-E.452-20D	1,2,3	

MECHANICAL NOTES:

- NEW MAKE UP AIR UNIT FURNISHED BY HOOD VENDOR - INSTALLED BY MECHANICAL CONTRACTOR.
- PROVIDE ROOF CURB FOR STANDING SEAM METAL ROOF. SEE HOOD PLANS FOR ADDITIONAL INFORMATION.
- PROVIDED WITH ACCESSORIES SPECIFIED ON HOOD PLANS. SEE HOOD PLANS FOR ADDITIONAL INFORMATION.

ROOFTOP UNIT SCHEDULE																						
EQUIPMENT TAG	APPLICATION	DISCHARGE	FAN				COOLING					HEATING				REFRIGERANT TYPE	EER	MANUFACTURER	MODEL NUMBER	MECHANICAL NOTES		
			TOTAL CFM	OA CFM	ESP (IN W.C.)	MOTOR HP	EAT DB (F)	EAT WB (F)	LAT DB (F)	LAT WB (F)	NUMBER OF COMPRESSORS	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	NOMINAL TONS	AMBIENT TEMPERATURE (F)						ELECTRIC HEAT (KW)	HEATING OUTPUT (MBH)
RTU 1	BACK-OF-HOUSE	VERTICAL	2000	340	0.5	1	79.2	66.5	56.9	56.4	2	47.3	60.9	5	95	18	61.5	R-454B	12.0 (SEER2=13.4)	TRANE	TSK060A3S0G	1,2,3,4,5,6,7,8
RTU 2	FRONT-OF-HOUSE	VERTICAL	1600	400	0.5	1	80.2	69.7	57.7	59.5	2	37.9	61.9	5	95	18	61.5	R-454B	12.0 (SEER2=13.4)	TRANE	TSK060A3S0G	1,2,3,4,5,6,7

MECHANICAL NOTES:

- FACTORY SUPPLIED ROOF CURB.
- FACTORY SUPPLIED DIFFERENTIAL ENTHALPY CONTROLLED LOW-LEAKAGE ECONOMIZER PACKAGE CAPABLE OF INDUCING 100% OUTDOOR AIR.
- GRAVITY RELIEF DAMPER.
- FACTORY PROVIDED CONVENIENCE OUTLET.
- FACTORY PROVIDED HAIL COIL GUARD.
- VARIABLE SPEED DIRECT DRIVE FAN MOTOR.
- HOT GAS REHEAT PACKAGE FOR DEHUMIDIFICATION.
- INTERLOCK RTU-1 WITH EF-1 AND MAU-1. RTU-1 AND MAU-1 MUST BE OPERATING WHEN EF-1 IS OPERATING.

EQUIPMENT SHALL BE TRANE WITH MODELS AND CONFIGURATIONS AS SHOWN. NO SUBSTITUTIONS ALLOWED WITHOUT PRIOR WRITTEN CONSENT FROM OWNER AND ENGINEER. FOR PRICING AND ORDERING PLEASE CONTACT:

CONTACT: WINGSTOP NATIONAL ACCOUNT TEAM
866-986-4822
EMAIL: WINGSTOP@TRANE.COM
ACCOUNT MANAGER: AUSTIN LUPTON