

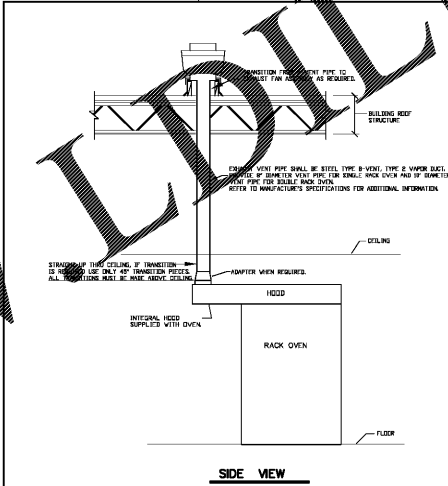
Order Plans @

MECHANICAL NOTES

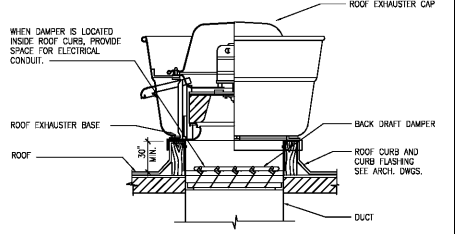
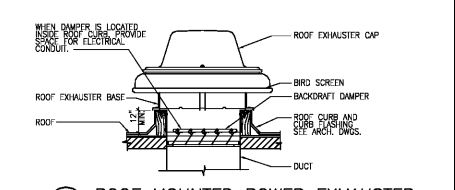
1. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODES.
2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO RECEIVE, OFFLOAD, AND STORE ALL HVAC MATERIALS WHICH ARRIVE AT THE JOB SITE. GENERAL CONTRACTOR WILL REIMBURSE KROGER FOR ANY DAMAGE TO EQUIPMENT THAT OCCURS DURING TRANSPORTATION.
3. GENERAL CONTRACTOR IS TO PROVIDE ANY SCREENING, GUARD RAILS, ETC. FOR ROOF-MOUNTED HVAC EQUIPMENT PER BS AND LOCAL CODES.
4. DUCT SIZES ARE SHOWN AS CLEAR INSIDE FREE AREA DIMENSIONS. PROVIDE FLEXIBLE CONNECTIONS WHERE DUCTS CONNECT TO UNIT (ON RISER). RUN ALL DUCTWORK AS HIGH AS POSSIBLE TO AVOID INTERFERENCE OF INTERFERING DUCT. ALL DUCTWORK SHALL BE INDEPENDENTLY HUNG FROM STRUCTURAL MEMBERS. COORDINATE ELEVATION AND LOCATION WITH RAIN LEADERS, WATER PIPING, PLUMBING VENTS AND MAJOR ELECTRICAL CONDUITS OR CABLE TRAYS.
5. PORTIONS OF DUCTWORK VISIBLE THROUGH GRILLS, REGISTERS, AND DIFFUSERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
6. ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL AND SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS (LATEST ISSUE). DUCT HANGERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SMACNA RECOMMENDATIONS.
7. ALL CONTROL WIRING SHALL BE RUN INSIDE WALLS OR ABOVE CEILING IN UNFINISHED AREAS. ROUTE CONTROL WIRING INSIDE CONDUIT IN JOIST SPACE. CONTRACTOR IS TO MAKE ALL LOW-VOLTAGE WIRING FINAL CONNECTIONS FOR ALL HVAC EQUIPMENT INCLUDING SENSORS, THERMOSTATS, AUDIO-VISUAL ANNUNCIATORS, ROOF-TOP UNITS, SMOKE DETECTORS, CONTROLLER PANELS AND CONTROL PANELS.
8. PROVIDE DEEP SEAL TRAP AT CONDENSATE DRAIN FROM DX COIL AT ALL UNITS. INSULATE ALL CONDENSATE DRAIN PIPING WITHIN THE BUILDING WITH MINIMUM R-3 SP ARMYLEX TYPE INSULATION. ROUTE TO SPILLSHED BLOCK MINIMUM 5FT AWAY FROM UNIT ON ROOF. ALL CONDENSATE PIPING SHALL BE INSTALLED MAINTAINING SECURED AND CLAMPED ON SUPPORT FOR THE ENTIRE LENGTH OF RUN ABOVE AND BELOW ROOF. CONDENSATE LINE SIZE SHALL BE FULL SIZE OF UNIT CONNECTION AND NOT LESS THAN 1/2" INTERNAL DIAMETER. CONDENSATE PIPING SHALL NOT DECREASE IN SIZE FROM THE UNIT CONNECTION TO THE PLACE OF CONDENSATE DISPOSAL. THE PIPING SHALL HAVE AN APPROPRIATE AIR SEAL TRAP AT EACH UNIT CONNECTION WITH A VENT DOWNSTREAM OF THE TRAP. ROUTE CONDENSATE TO ROOF IF NO LOCATION IS SPECIFIED. CONTRACTOR TO RUN ALL CONDENSATE PIPING IN WALL AND CONCEAL FROM VIEW AS MUCH AS POSSIBLE.
9. THE MECHANICAL DRAWINGS ARE DIAGNOSTIC AND SHOW THE RELATIONSHIP BETWEEN EQUIPMENT AND CONNECTIONS. DO NOT SCALE THE DRAWINGS FOR EXACT SIZE OR LOCATION. BUILDING DIMENSIONS SHALL BE TAKEN FROM MECH. PLANS AND EQUIPMENT DIMENSIONS SHALL BE TAKEN FROM CERTIFIED EQUIPMENT DATA.
10. CONTRACTOR TO COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.
11. ALL FLEX DUCT SHALL BE FIBER-GLASS, CLASSIFIED AS A CLASS 1 AIR DUCT, AND MEET LOCAL CODE REQUIREMENTS. FLEXIBLE DUCT TAKE-OFF TO BE THERMALEX TYPE MAKE OR EQUIVALENT.
12. ALL FANS 1/8 HP AND ABOVE SHALL HAVE FUSED DISCONNECT SWITCHES MOUNTED AT THE FAN. IF APPROVED BY LOCAL AUTHORITIES, NON-FUSED DISCONNECT SWITCHES MAY BE USED DISCONNECTS PROVIDED BY ELECTRICAL CONTRACTOR.
13. MAXIMUM LENGTH OF FLEXIBLE DUCT IS NOT TO EXCEED 8'-0". BRANCH DUCT RUN OUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK UNLESS OTHERWISE SPECIFIED.
14. CONTRACTOR TO COORDINATE ALL CLEARANCES PRIOR TO INSTALLATION OF EQUIPMENT AND MATERIAL. INSTALL ALL EQUIPMENT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
15. MOUNT ALL THERMOSTATS/SENSORS IN NON-SHADE AREAS AT 60" AFT. UNMOUNTED OTHERWISE. ANY THERMOSTATS/SENSORS LOCATED ON AN EXTERIOR WALL SHALL BE MOUNTED ON AN INSULATING BASE. ALL CONTROL WIRING SHALL RUN INSIDE OF ABOVE CEILING.
16. PROVIDE BALANCING DAMPERS AT POINTS ON SUPPLY RETURN AND EXHAUST SYSTEMS WHERE BRANCHES LEAD FROM LARGE DUCTS AS SPECIFIED FOR AIR BALANCING. INSTALL AT A MINIMUM OF TWO DUCT JOINTS FOR EACH BRANCH. PROVIDE AIR DAMPER OTHERWISE NOTED. EVERY SUPPLY TAP COLLAR SHALL HAVE A LOCKING WEDGE. VOLUME DAMPER PROVIDED BY MANUFACTURER. IDENTIFY EACH DAMPER WITH THE MANUFACTURER'S IDENTIFICATION TAGS. IDENTIFICATION TAGS SHALL BE ATTACHED TO THE WALLS CEILING AND SHALL BE VISIBLE FROM ALL ACCESSIBLE AREAS.
17. PROVIDE TURNING VANES IN 90 DEGREE TURNING VANE 90 & 90 DEGREE MITERED ELBOWS OBTAINING ALL REQUIREMENTS AND PARTS LISTED ON ASSOCIATED FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL CONNECTIONS SHALL BE IN ACCORDANCE WITH THESE PLANS. SPECIFICATIONS, LOCAL STATE AND NATIONAL CODES.
18. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, TOOLS AND TOOLS TO PERFORM MECHANICAL WORK AS SPECIFIED OR SOLEMNLY FOR A COMPLETE INSTALLATION.
19. CONTRACTOR SHALL NOT ROUTE DUCTWORK THROUGH ELECTRICAL EQUIPMENT AND PANELS.
20. CONTRACTORS MUST COORDINATE EACH PIECE OF EQUIPMENT WITH ALL OTHER TRADES: PLUMBING CONTRACTOR, PLUMBING CONTRACTOR, MECHANICAL CONTRACTOR, SPRINKLER CONTRACTOR, ELECTRICAL CONTRACTOR, ETC.) AFFECTED BY THAT PIECE OF EQUIPMENT. CLEARANCES, WEIGHTS, POWER REQUIREMENTS, VOLTAGES, ETC.) PRIOR TO ORDERING AND AGAIN PRIOR TO INSTALLATION (ROOF TOP EQUIPMENT OR LIGHTING FIXTURES). NO EXTRA COMPENSATION WILL BE APPROVED IF SUBSTITUTION IS NOT SPECIFIED BY EACH RESPECTIVE CONTRACTOR AND APPROVED BY ARCHITECT/ENGINEER.
21. CONTRACTOR SHALL VISIT SITE BEFORE SUBMITTING BID AND MAKE ALL NECESSARY OBSERVATIONS, MEASUREMENTS AND NOTE CONDITIONS UNDER WHICH HIS WORK IS TO BE PERFORMED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO DO SO. THE CONTRACT INVOLVES REMODELING OF EXISTING BUILDING AND THEREFORE SHALL FIELD LOCATE EXISTING DUCTWORK, PIPING, AIR TERMINAL DEVICES, ETC. BEFORE STARTING WORK.
22. ALL OBVIOUS ERRORS AND/OR OMISSIONS IN THE ABOVE MENTIONED DOCUMENTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT / ENGINEER PRIOR TO CONSTRUCTION.
23. ANY MECHANICAL ITEMS IN QUESTION REGARDING REMOVAL/REUSE SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT/ENGINEER. CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION TO THE ARCHITECT/ENGINEER IN WRITING PRIOR TO REMOVAL OF ANY MECHANICAL ITEMS.
24. SET MECHANICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
25. ALL COSTS INCURRED BY ACCEPTANCE OF SUBSTITUTIONS SHALL BE BORNE BY CONTRACTOR. ANY ADDITIONAL COSTS/SERVICES RESULTING FROM PROPOSED SUBSTITUTE EQUIPMENT SHALL BE PROVIDED AT NO EXTRA COST TO THE OWNER.

CONTRACTOR TO COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.

- NOTES TO GENERAL CONTRACTOR REGARDING KROGER SUPPLIED CONTRACTOR INSTALLED EQUIPMENT:
1. CONTRACTOR TO OBTAIN APPROVAL OF ANY DELIVERY DATE CHANGES FROM KROGER PROJECT ENGINEER. COORDINATE WITH VENDOR.
 2. CONTRACTOR TO RECEIVE EQUIPMENT, PERFORM INSPECTION AND NOTIFY VENDOR OF ANY MISSING AND/OR DAMAGED MATERIALS WITHIN 48 HOURS AFTER DELIVERY (20 DAY TOLERANCE CHANGE DAMAGE).
 3. CONTRACTOR TO PROVIDE SAFE HARBORING, INSULATION, AND REMOVAL OF ANY SALVAGE MATERIALS.
 4. CONTRACTOR TO HONOR ANY WARRANTY CLAIMS PRIOR TO STARTING WORK. COORDINATE WITH VENDOR.



BAKERY RACK OVEN EXHAUST
DATE: 10/11/18
SCALE: NONE
DRAWN: JAW
HSD-7



MARK	CFM	E.S.P. WG	DRIVE	H.P.	TYPE	BASIS OF DESIGN (CAPTIVE/AIR)	EPRO#	LOCATION/SERVICE	AES CURB MODEL#	NOTES
EF-1	600	0.125"	DIRECT	0.18	CENTRIFUGAL	DR12HFA	K-0002356	SEAFOOD EXHAUST	42408	SEE NOTE (3) (4)
EF-2	600	0.125"	DIRECT	0.18	CENTRIFUGAL	DR12HFA	K-0002356	FRONT RESTROOMS	42408	SEE NOTE (3) (4)
EF-3	900	0.125"	DIRECT	0.25	CENTRIFUGAL	DR30HFA	K-0002355	REAR RESTROOMS	42409	SEE NOTE (3) (4)
EF-4	900	1.1"	DIRECT	0.50	CENTRIFUGAL	DU50HFA	K-0048398	BAKERY OVEN	42412	SEE NOTE (3) (5) (6)

- ① FANS ARE PROVIDED BY KROGER. CONTRACTOR IS RESPONSIBLE FOR PROVIDING CURBS, SCHEDULING, RECEIPT AND COMPLETE INSTALLATION OF FANS.
- ② FAN TO BE CONTROLLED BY OCCUPANCY SENSOR.
- ③ CONTRACTOR SHALL FIELD VERIFY EXISTING FAN CURB DIMENSIONS. PROVIDE CURB ADAPTER IF NEW AND EXISTING FAN CURB DIMENSIONS ARE DIFFERENT.
- ④ FAN TO BE CONTROLLED BY WALL SWITCH.
- ⑤ FAN TO BE ON WHEN OVEN IS IN OPERATION.
- ⑥ FAN PROVIDED AS PART OF ADD ALTERNATE #1.

HVAC LEGEND & ABBREVIATIONS

☒	SUPPLY DIFFUSER
☑	RETURN GRILLE
⊠	AIR DISTRIBUTION TAD
⊙	TEMPERATURE SENSOR
⊙	HUMIDITY SENSOR
☒	MANUAL VOLUME DAMPER
☒	SPLITTER DAMPER
☒	FIRE DAMPER
☒	DOUBLE THICK TURNING VANE
☒	DOOR LOUVER
RUU	ROOFTOP UNIT
FCU	FAN COIL UNIT
EF	ELECTRIC FAN
GHU	GH UNIT HEATER
H	HEATER
CU	CONDENSING UNIT

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NO.	DATE	REVISIONS

HVAC SCHEDULES, NOTES AND DETAILS

DATE: **03-06-20**

PROJECT NUMBER: **20-108**

REVISION NUMBER: **M6.1**