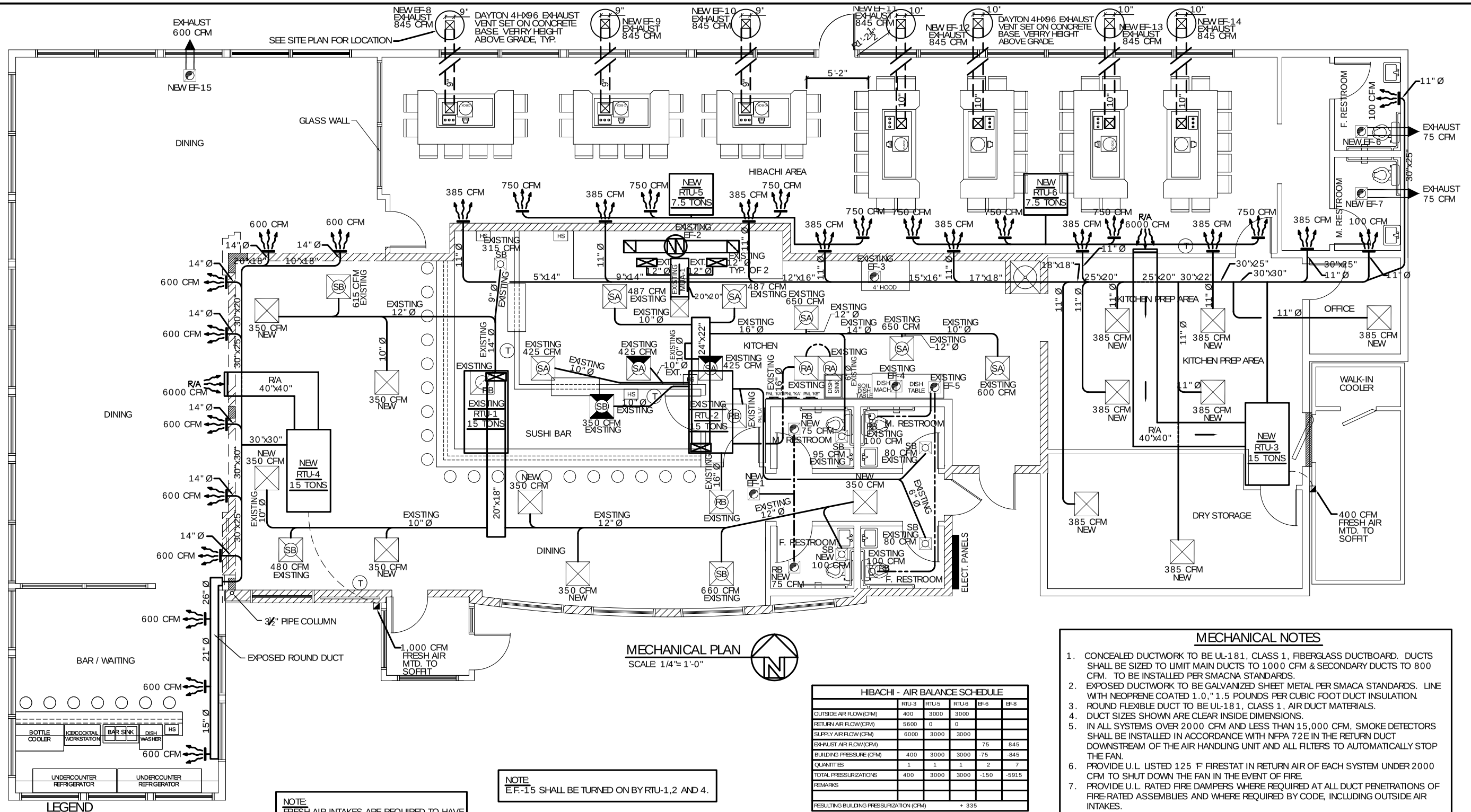

MECHANICAL PLAN

SCALE 1/4"= 1'-0"

LEGEND

- EXISTING WALLS TO REMAIN
- WALL MTD. A/C DIFFUSER
- R/A - RETURN AIR
- T - THERMOSTAT
- CEILING DIFFUSER (LAY-IN); EXISTING
- RA - CEILING RETURN (LAY-IN); EXISTING
- RB - CEILING EXHAUST (SURFACE - MOUNT); EXISTING
- SA - CEILING DIFFUSER (LAY-IN); EXISTING
- SB - CEILING DIFFUSER (LAY-IN); EXISTING

NOTE:
FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING. ALL THERMOSTATS MUST BE PROGRAMMABLE. SEE SECTIONS 502.4.4 OR 503.2.4.3 2006 INTERNATIONAL ENERGY CODE.

NOTE:
E.F.-15 SHALL BE TURNED ON BY RTU-1,2 AND 4.

EXHAUST FAN SCHEDULE

LOC	CFM	VOLTAGE	TYPE	MANF.
TOILETS	SEE DWG	120	VENT/LIGHT	-
EF-1	150	120	VENT	GREENHECK
EF-2	3840	120	HOOD	EXIST.
EF-3	750	120	HOOD	EXIST.
EF-4	450	120	HOOD	EXIST.
EF-5	200	120	VENT	GREENHECK
EF-6	150	120	VENT	GREENHECK
EF-7	150	120	VENT	GREENHECK
EF-8	845	120	HIBACHI TBL	ROASTER TEC
EF-9	845	120	HIBACHI TBL	ROASTER TEC
EF-10	845	120	HIBACHI TBL	ROASTER TEC
EF-11	845	120	HIBACHI TBL	ROASTER TEC
EF-12	845	120	HIBACHI TBL	ROASTER TEC
EF-13	845	120	HIBACHI TBL	ROASTER TEC
EF-14	845	120	HIBACHI TBL	ROASTER TEC
EF-15	600	120	VENT	GREENHECK

KITCHEN HOOD SYSTEM NOTES

1. SUBCONTRACTOR TO SUBMIT SHOP DRAWINGS AND REVIEW PACKAGE SUITABLE FOR FIRE MARSHAL KITCHEN HOOD REVIEW.
2. SUBCONTRACOTR TO SUBMIT SHOP DRAWINGS AND REVIEW PACKAGE SUITABLE FOR FIRE MARSHAL KITCHEN HOOD CHEMICAL FIRE SUPPRESION SYSTEM REVIEW.
3. PROVIDE GAS SHUTOFF VALVE FOR ALL EQUIPMENT UNDER HOOD CONNECTED TO HOOD EXHAUST SYSTEM.
4. PROVIDE SHUNT TRIP BREAKERS FOR ALL EQUIPMENT UNDER HOOD CONNECTED TO HOOD EXHAUST SYSTEM.

HIBACHI - AIR BALANCE SCHEDULE

	RTU-3	RTU-5	RTU-6	EF-6	EF-8
OUTSIDE AIR FLOW (CFM)	400	3000	3000		
RETURN AIR FLOW (CFM)	5600	0	0		
SUPPLY AIR FLOW (CFM)	6000	3000	3000		
EXHAUST AIR FLOW (CFM)				75	845
BUILDING PRESSURE (CFM)	400	3000	3000	-75	-845
QUANTITIES	1	1	1	2	7
TOTAL PRESSURIZATIONS	400	3000	3000	-150	-5915
REMARKS					
RESULTING BUILDING PRESSURIZATION (CFM)			+ 335		

RESTUARANT - AIR BALANCE SCHEDULE

	RTU-1	RTU-4	EF-1	EF-2	EF-3	EF-4	EF-5	EF-15
OUTSIDE AIR FLOW (CFM)	1110	1000		2880				
RETURN AIR FLOW (CFM)	4890	5000						
SUPPLY AIR FLOW (CFM)	6000	6000						
EXHAUST AIR FLOW (CFM)			150	3840	750	450	200	600
BUILDING PRESSURE (CFM)	1110	1000	-150	-960	-750	-450	-200	-600
QUANTITIES	2	1	1	1	1	1	1	1
TOTAL PRESSURIZATIONS	2220	1000	-150	-960	-750	-450	-200	-600
REMARKS								
RESULTING BUILDING PRESSURIZATION (CFM)			+ 110					

HVAC UNIT SCHEDULE

NO.	COOLING CAPACITY BTU/HR	CFM	O.A.	HEAT ELEC.	ELECTRICAL VOLTAGE	MCA	CKT BRKR	COMMENTS
1	180,000	6,000	1110	15 KW	208V,3Ø	37.4	MP-2,4,6	EXISTING RTU 15 TONS
2	180,000	6,000	1110	15 KW	208V,3Ø	37.4	MP-8,10,12	EXISTING RTU 15 TONS
3	180,000	6,000	400	15 KW	208V,3Ø	37.4	MP-13,15,17	NEW RTU 15 TONS
4	180,000	6,000	1000	15 KW	208V,3Ø	37.4	MP-14,16,18	NEW RTU 15 TONS
5	90,000	3,000	3000	15 KW	208V,3Ø	88.3	MP-19,21,23	NEW RTU 7.5 TONS, INTERCON. W/ EF-8 THRU 11
6	90,000	3,000	3000	15 KW	208V,3Ø	88.3	MP-20,22,24	NEW RTU 7.5 TONS, INTERCON. W/ EF-12 THRU 14

MECHANICAL NOTES

1. CONCEALED DUCTWORK TO BE UL-181, CLASS 1, FIBERGLASS DUCTBOARD. DUCTS SHALL BE SIZED TO LIMIT MAIN DUCTS TO 1000 CFM & SECONDARY DUCTS TO 800 CFM. TO BE INSTALLED PER SMACNA STANDARDS.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL PER SMACA STANDARDS. LINE WITH NEOPRENE COATED 1.0," 1.5 POUNDS PER CUBIC FOOT DUCT INSULATION.
3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
4. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
5. IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
6. PROVIDE U.L. LISTED 125 °F FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
7. PROVIDE U.L. RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES.
8. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
9. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
10. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
11. EXHAUST FAN EQUAL TO BROAN MODEL NO. 100 CF. OR EQUAL. FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
12. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
13. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS.
14. LOCATE OUTDOOR UNITS AS SHOWN ON ARCH. DWGS.
15. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
16. FRESH AIR SHALL BE SUPPLIEDTO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
17. INSTALL FIRE DAMPER WHERE S.A. & R.A. DUCTS PENETRATE 1 HOUR RATED CEILINGS.
18. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMESAND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14).
19. MECHANICAL PLANS ARE DRAWN SCHEMATICALLY.
20. AREA OF REFUGE SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 92A, TO INCLUDE STAIRWELL PRESSURIZATION SYSTEMS. PROVIDE PROPER ACTIVATION AND CONTROL SYSTEMS.

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HAMMOND, LA

MECHANICAL PLAN

REV:

SCALE: AS NOTED

JOB#: 1943

DATE: 7-25-08

SHEET 17

M-1

OF 22