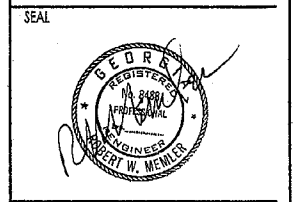


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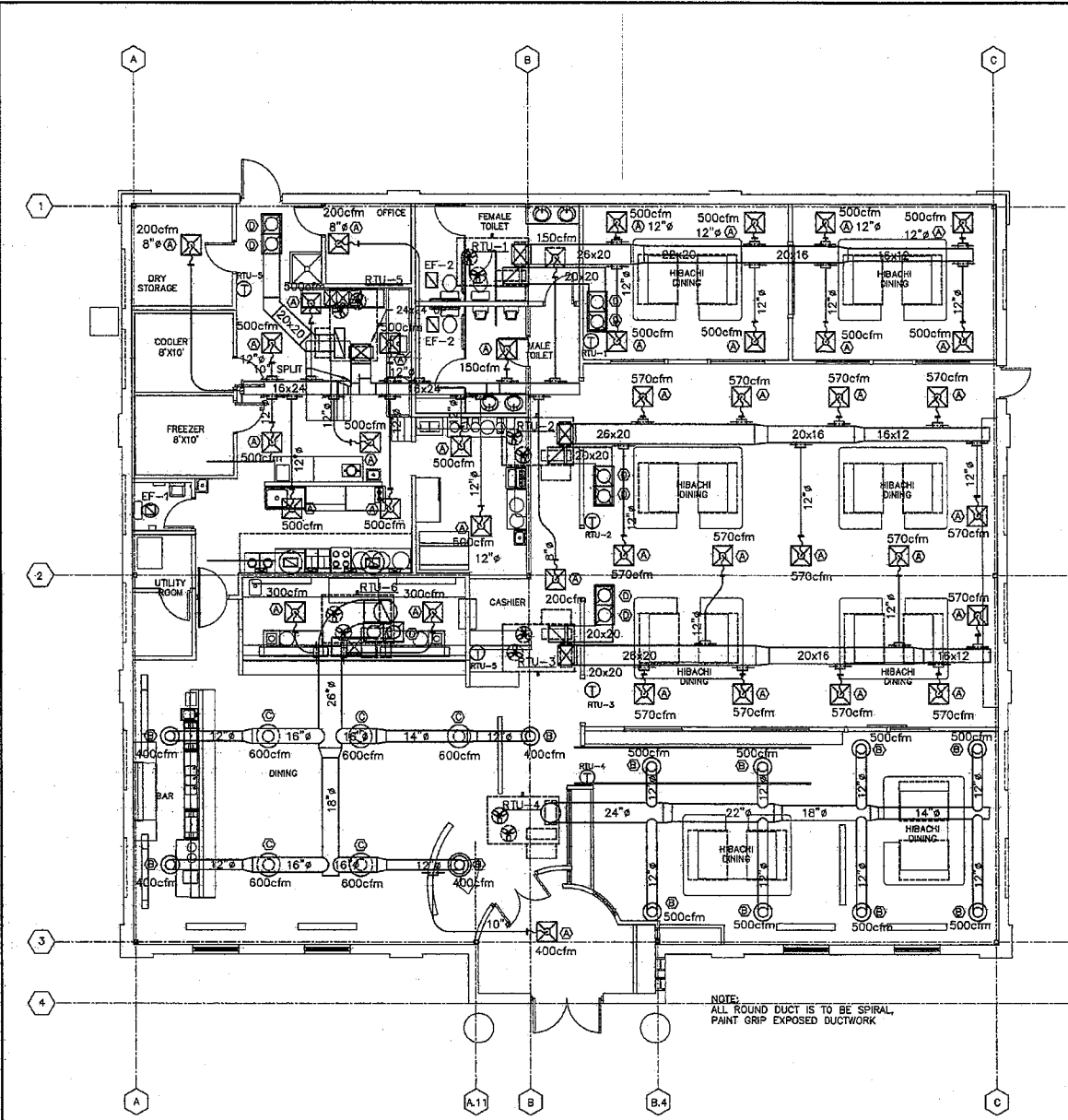
NIKKO JAPANESE RESTAURANT
 LAND LOT 116, 7TH DISTRICT
 FAYETTE COUNTY, GEORGIA

CLIENT: GIL Y. HAN | 3953 CAYTON BLVD. CHATTANOOGA, TN 37415

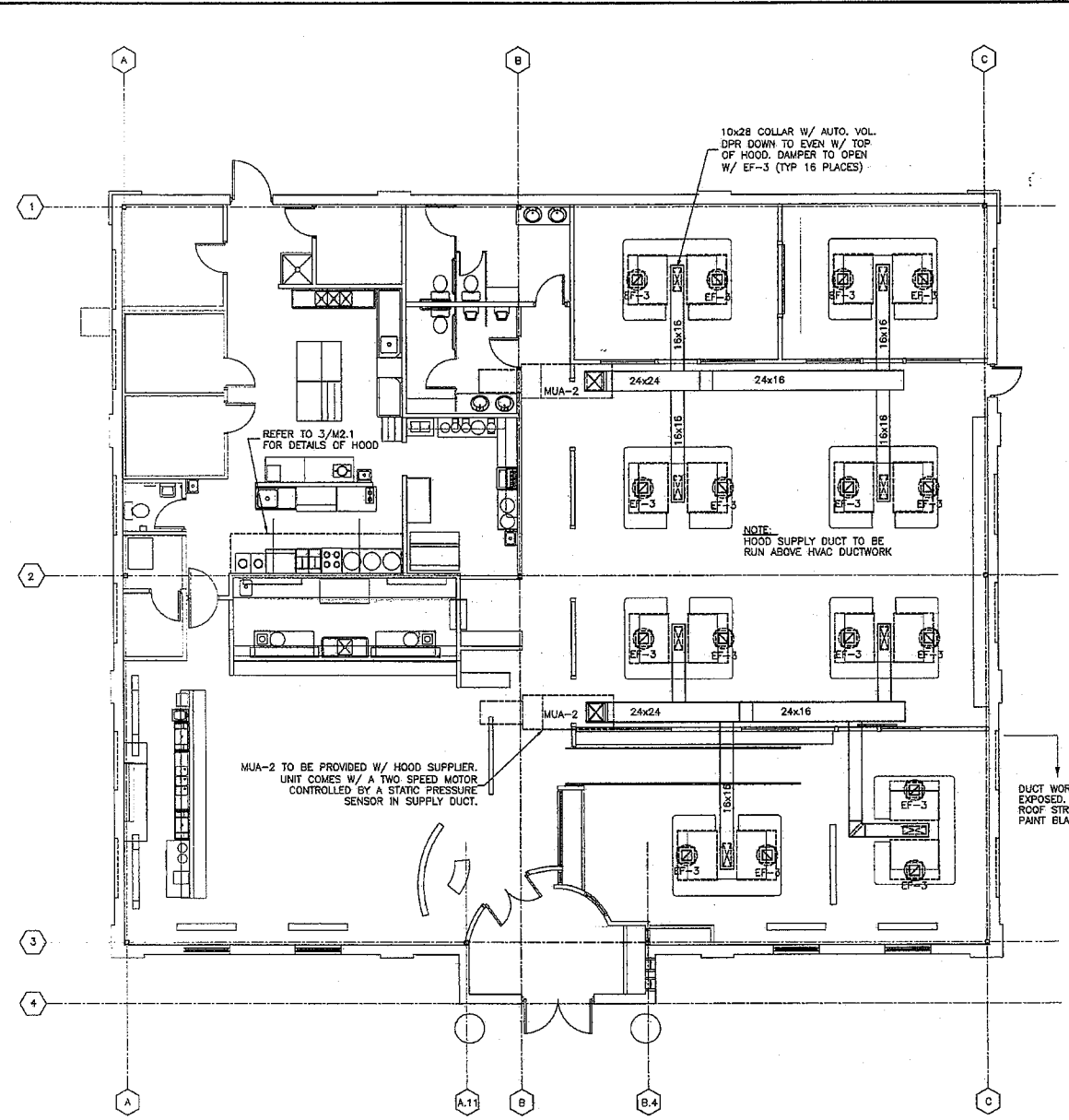
KEY PLAN

DATE: MARCH 20, 2007
 DRAWN: RWM
 CHECKED: RWM
 JOB NO.: DS0502

TITLE: FIRST FLOOR PLAN MECHANICAL
 SHEET NUMBER: **M1.1**



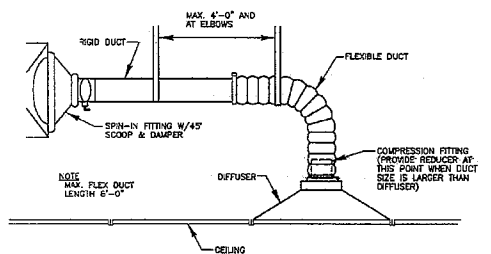
1 FLOOR PLAN - MECHANICAL
 M1.1 SCALE: 1/8" = 1'-0"



1 FLOOR PLAN - HOODS
 M1.1 SCALE: 1/8" = 1'-0"

KITCHEN HOOD EQUIPMENT SCHEDULE

MARK	EQUIPMENT	CFM		GREENHECK MODEL NUMBERS			NOTES
		EXHAUST	MAKE-UP	HOOD	EXH. FAN	MAKE-UP	
#1	HOOD, EF-3	1450	1170	5'-6" x 2'-8" GHFW	CUBE-131-5	BCF-108	ENERGIZE FROM SWITCH ON HOOD
55	HOOD, EF-4, MUA-1	1800	1440	9' x 4'	CUBE-160-5	KSU-110	ENERGIZE FROM SWITCH ON HOOD
55	HOOD, EF-4, MUA-1	1800	1440	9' x 4'	CUBE-160-5	KSU-110	ENERGIZE FROM SWITCH ON HOOD



3 DIFFUSER RUNOUT DETAIL
 M-1 NO SCALE

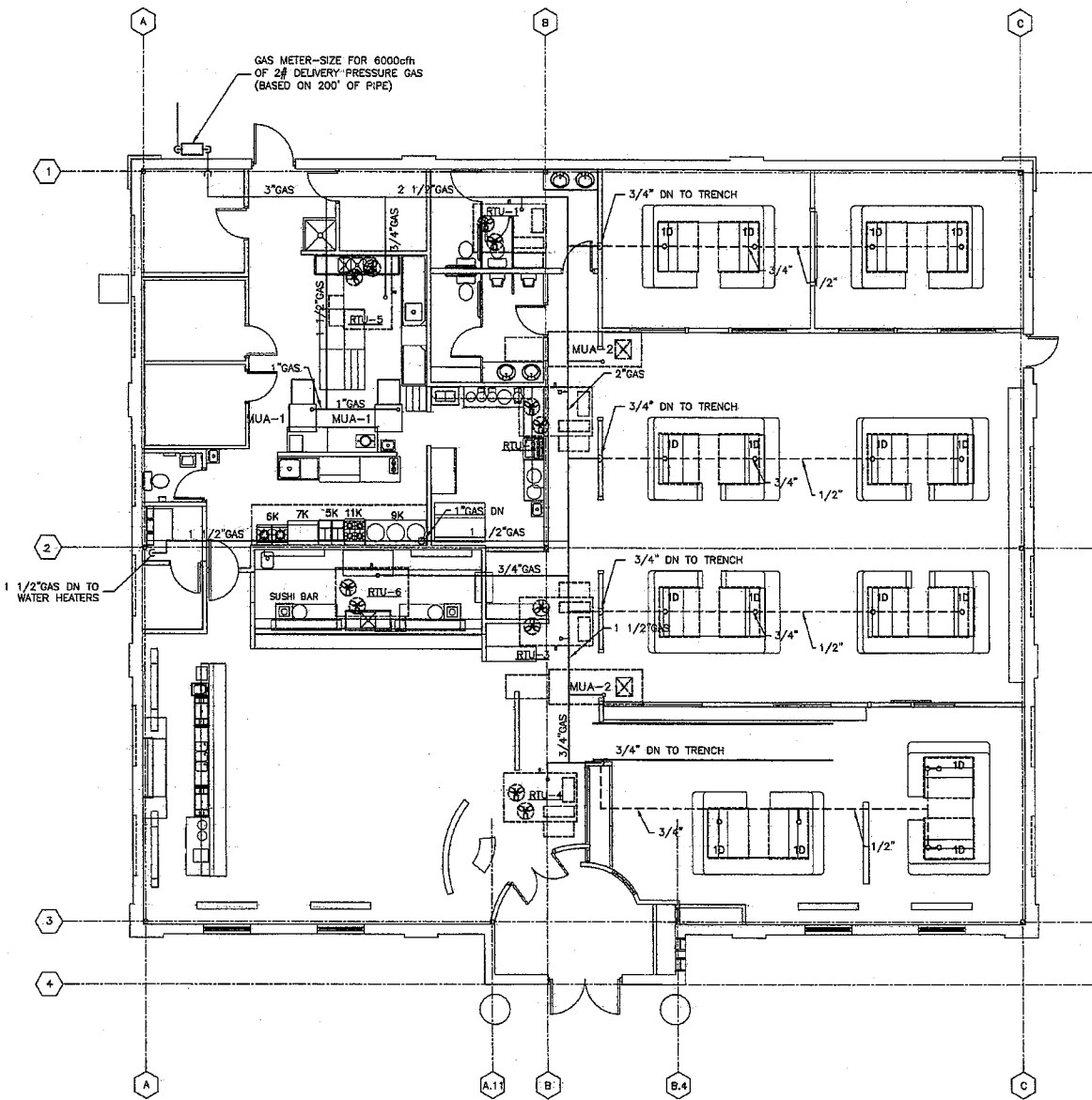
AIR DISTRIBUTION SCHEDULE

MARK	TYPE	FACE	NECK	CFM	OBD	TITUS MODEL No.
A	SAD	24X24	AS NOTED	-	YES	TMS TYPE 3
B	SAD	22"ø	12"ø	500	YES	TMRA
C	SAD	26"ø	14"ø	700	YES	TMRA
D	RAG	24X24	18"ø	2000	NO	50F TYPE 3

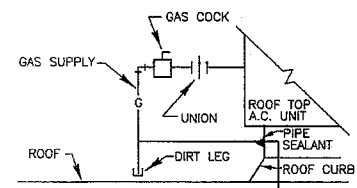
SAD-SUPPLY AIR DIFFUSER
 RAG-RETURN AIR GRILLE

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 350 Wexford Glen
 Roswell, Ga. 30075
 (770) 998-6102
 FAX (770) 998-6119

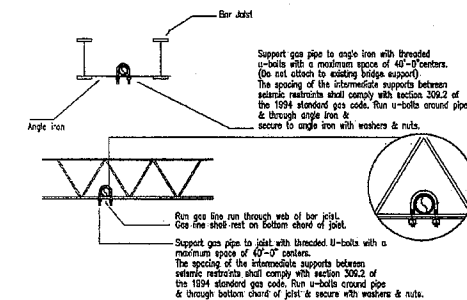
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1 FLOOR PLAN - GAS PIPING
M1.2 SCALE: 1/8" = 1'-0"

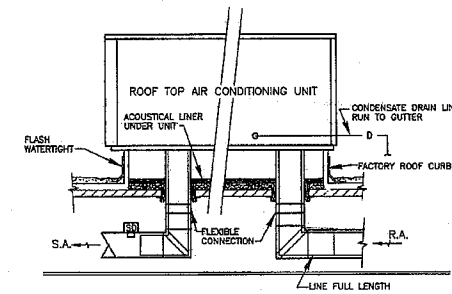


3 GAS PIPING CONNECTION DETAIL
M-2 NO SCALE



4 SEISMIC RESTRAINT DETAIL ON GAS PIPING
M-3 NO SCALE

GAS KITCHEN EQUIPMENT SCHEDULE				
MARK	EQUIPMENT	GAS-BTU'S	PIPE SIZE	NOTES
5K	FRYER	100	3/4"	-
6K	RANGE	100	3/4"	2 REQ'D.
7K	GRIDDLE	90	3/4"	-
9K	RICE COOKER	50	-	2 REQ'D.
11K	4-BURNER RANGE	142	3/4"	-
1D	GRIDDLE	50	3/4"	16 REQ'D



5 ROOFTOP UNIT DETAIL
M-2 NO SCALE

OUTSIDE AIR CALCULATIONS					
SPACE-USAGE	AREA	OA REQUIREMENTS	CALCULATED OA	EXHAUST AIR REQ'D.	OA USED FOR RTU'S
DINING (RTU-1)	630 SQ.FT.	70/1000 x 20cfm	880cfm	1160cfm	1160cfm
DINING (RTU-2&3)	1512 SQ.FT.	70/1000 x 20cfm	2120cfm	2340cfm	2340cfm
DINING (RTU-4)	880 SQ.FT.	70/1000 x 20cfm	1240cfm	1160cfm	1240cfm
KITCHEN (RTU-5)	1232 SQ.FT.	20/1000 x 15cfm	370cfm	1020cfm	1020cfm
DINING (RTU-6)	1224 SQ.FT.	60/1000 x 15cfm	1710cfm	0cfm	1710cfm
CORRIDOR (RTU-6)	300 SQ.FT.	0.05cfm/SQ.FT.	15cfm	-	15cfm

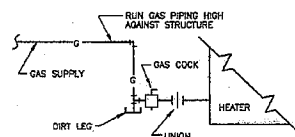
1. OUTSIDE AIR BASED ON SMC TABLE 403.3

FAN SCHEDULE							
SYMBOL	FUNCTION	CFM/SP	MFR.	MODEL NO.	HP	VOLTS/PHASE	NOTES
EF-1	TOILET EXHAUST	75/ 1/4"	GREENHECK	SP-7	1/6	120/1Ø	2,3
EF-2	TOILET EXHAUST	225/ 1/2"	GREENHECK	GB-80-4-R4	1/4	120/1Ø	2,3
EF-3	HOOD EXHAUST FAN	2250/ 3/4"	FLOAIRE	BDU18	1/2	120/1Ø	1
EF-4	HOOD EXHAUST FAN	2800/ 3/4"	FLOAIRE	DUB5H	3/4	120/1Ø	1

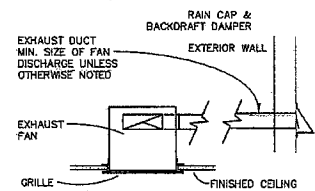
NOTES: (1) ENERGIZE FROM SWITCH MOUNTED ON HOOD
(2) ENERGIZE FROM WALL SWITCH
(3) RUN DUCT FULL SIZE TO EXTERIOR WALL W/ BACKDRAFT DAMPER & RAIN CAP.

ROOFTOP UNIT SCHEDULE															
MARK	CFM	O.A. CFM	ESP/TSP W.G.	MIN. H.P.	COOLING			HEATING MBH		ELECT. CHAR.			BASIS OF DESIGN (TRANE)	WEIGHT	NOTES
					SENS MBH	TOT MBH	KW	INPUT	OUTPUT	VOLT/Ø	WSA	CB			
RTU-1-4	4000	1200	1.0"	3	88.7	124.8	9.3	180	144	208/3Ø	55	60	YCD120C3L	1500#	ALL
RTU-5	5600	1020	1.0"	3	136.0	190.0	14.1	180	144	208/3Ø	82	90	YCD180B3L	1800#	ALL
RTU-6	5200	1710	1.0"	3	114.2	150.0	11.5	180	144	208/3Ø	71	80	YCD150C3L	1560#	ALL
MUA-1	6500	6500	1.0"	5	-	-	-	825	660	208/3Ø	14.1	30	APPLIED AIR DFL 070	1540#	ALL
MUA-2 W/ CU-2	6000	6000	1.0"	5	-	-	-	825	660	208/3Ø	14.1	30	FLOAIRE F3-D.750.G18	1540#	ALL
	-	-	-	-	100.0	120.0	11.5	-	-	208/3Ø	27.0	45	2TTA00603000A	26#	ALL

NOTES: 1. OUTSIDE AIR BASED ON TABLE 403.3 OF THE 2000 STANDARD MECHANICAL CODE
2. PROVIDE SMOKE DETECTORS IN THE SUPPLY AIR OF ALL RTU'S
3. RTU'S TO BE PROVIDED WITH A DRY-BULB ECONOMIZER SYSTEM
4. PROVIDE 7-DAY PROGRAMMABLE THERMOSTATS.



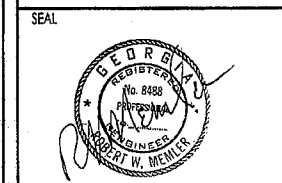
2 GAS PIPING CONN. DETAIL
M-2 NO SCALE



4 EXHAUST FAN DETAIL
M-2 NO SCALE

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KEY PLAN

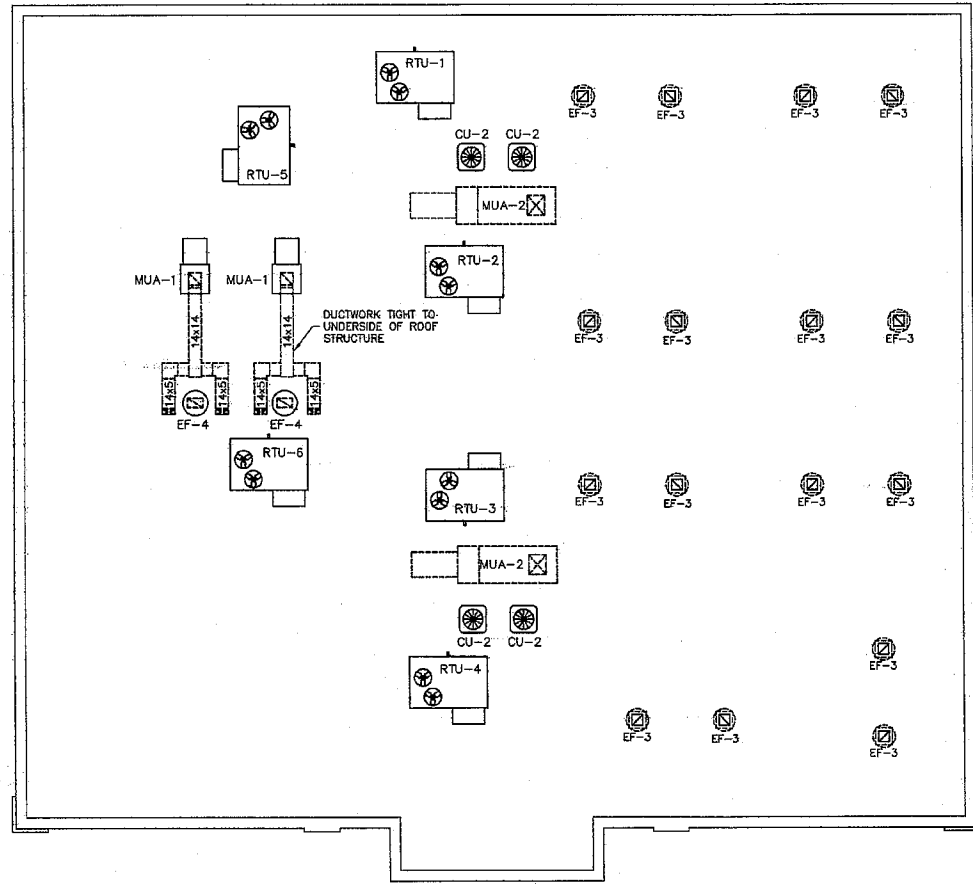
DATE: MARCH 20, 2007
DRAWN: RWM
CHECKED: RWM
JOB NO.: DS0502

TITLE: FIRST FLOOR PLAN
GAS PIPING
SCHEDULES & DETAILS

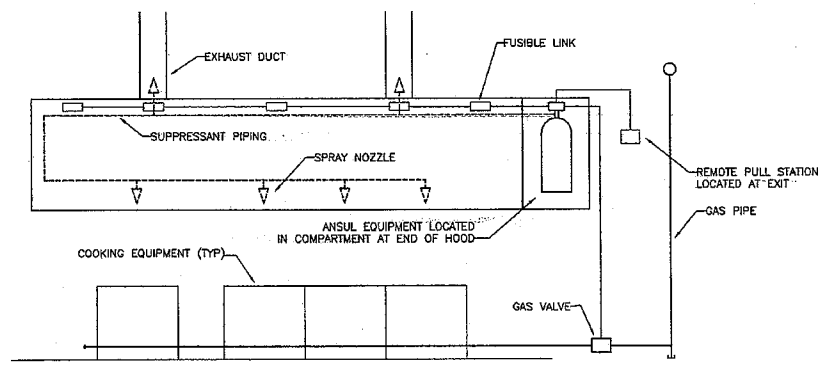
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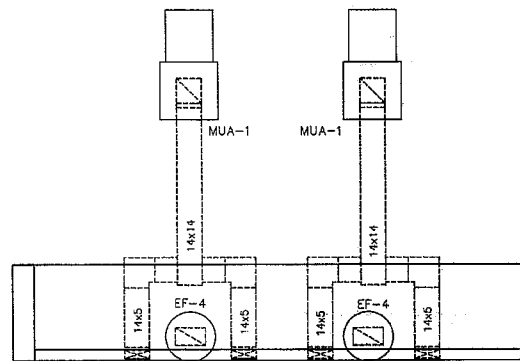
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1 ROOF PLAN -- MECHANICAL
M1.1 SCALE: 1/8" = 1'-0"



2 TYPICAL HOOD SUPPRESSION SYSTEM
M-3 NO SCALE



3 HOOD PLAN
M2.1 SCALE: 1/4" = 1'-0"

HVAC LEGEND & ABBREVIATIONS	
○	AIR DISTRIBUTION SYMBOL
CFM	CUBIC FEET PER MINUTE
AF	ABOVE FINISHED FLOOR
10x10	DUCT DIMENSIONING
⊕	PROGRAMMABLE THERMOSTAT
EF	EXHAUST FAN
MVA	MANUAL VOLUME DAMPER
RTU	ROOF TOP UNIT
CU	CONDENSING UNIT
FUR	FURNACE
⊗	FIRE DAMPER

GENERAL NOTES

- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED DUCTWORK IN ACCORDANCE WITH THE GAUGES AND METHODS OF CONSTRUCTION AS SPECIFIED IN THE SMACNA MANUAL FOR LOW PRESSURE DUCTWORK.
- DUCT SIZES ARE SHOWN AS FREE AREA, CLEAR INSIDE DIMENSIONS, WHERE INTERNAL LINING IS CALLED FOR, DIMENSIONS SHALL BE INCREASED BY THE THICKNESS OF THE LINING TO PROVIDE THE SAME FREE AREA, CLEAR INSIDE DIMENSIONS.
- LINE SUPPLY AND RETURN AIR DUCTWORK THROUGH FIRST TRANSITION, ELBOW OR FIRST TEN FEET OF EACH UNIT, WHICH EVER IS GREATEST.
- DUCT WRAP INSULATION SHALL BE A MINIMUM OF 1 1/2" THICK, 3/4 POUND DENSITY FIBERGLASS DUCT WRAP WITH A VAPOR BARRIER. ALL SUPPLY AND RETURN DUCT TO BE INSULATED.
- DUCT LINER INSULATION SHALL BE A MINIMUM OF 1" THICK, 2 POUND DENSITY FIBERGLASS DUCT WRAP WITH A BLACK COATING.
- RIGID ROUND DUCT SHALL BE SHEET METAL. ALL SUPPLY SPIN-IN FITTINGS SHALL BE EQUIPPED WITH SCOOP.
- BRANCH ROUND DUCTWORK TAPS LOCATED ABOVE ACCESSIBLE CEILING AND SERVING ONLY ONE DIFFUSER SHALL HAVE SPIN-IN WITH SCOOP & MANUAL DAMPER.
- BRANCH ROUND DUCTWORK LOCATED ABOVE INACCESSIBLE CEILING OR SERVING MORE THAN ONE DIFFUSER SHALL HAVE THE MANUAL DAMPER OMITTED, AND HAVE A FACE OPERATED DAMPER IN THE DIFFUSER UNLESS NOTED OTHERWISE.
- FLEXIBLE DUCT RUNOUTS TO DIFFUSERS SHALL BE INSTALLED FREE OF KINKS AND SAGS. ALL DIFFUSER RUNOUTS SHALL BE SIZED TO MATCH THE INLET OF THE DIFFUSER SERVED, MAX. 6 FEET LONG. THERMAFLEX THERMODUCT OR EQUAL.
- ALL DUCT CHANGES FROM SQUARE TO ROUND SHALL BE SMOOTH TRANSITIONS. SPIN-INS AT THE END OF CAPPED DUCTS ARE NOT ACCEPTABLE.
- TRANSITION RECTANGULAR DUCTWORK ON THE BOTTOM AND THE SIDES, MAINTAIN DUCTWORK LEVEL AND AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.
- PLENUM SPACE IS EXTREMELY TIGHT, CEILING HEIGHTS SHOWN ON ARCHITECTURAL DRAWINGS MUST BE MAINTAINED, COORDINATE ALL DUCT ROUTING WITH ALL TRADES PRIOR TO FABRICATION OR ROUGH-IN.
- MOUNTING FRAME OF CEILING MOUNTED AIR DISTRIBUTION DEVICES SHALL BE COMPATIBLE WITH CEILING TYPE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE.
- ALL LAY-IN DIFFUSERS SHALL HAVE FOUR-WAY BLOW UNLESS NOTED OTHERWISE.
- PORTIONS OF DUCTWORK OR PIPING VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK. PAINT BLACK BEHIND ALL GRILLES.
- ALL PENETRATIONS INTO OR THROUGH, EITHER VERTICAL OR HORIZONTAL FIRE RATED BARRIERS SHALL BE PROJECTED AS APPROPRIATE FOR THE FIRE RESISTANCE RATING OF THE BARRIER, BY A SYSTEM LISTED BY A RECOGNIZED TESTING AGENCY (UL 556) AND BE INSTALLED PER NFPA 101 LIFE SAFETY CODE 1997 EDITION CHAPTER 8-2.3.2.4, CHAPTER 6-2.4 AND MECHANICAL CODE. CONTRACTOR SHALL REVIEW THE LATEST ARCHITECTURAL PLANS FOR ALL RATED ASSEMBLIES AND PROVIDE ALL FIRE DAMPERS THAT ARE REQUIRED, WHETHER INDICATED ON THE MECHANICAL DRAWINGS OR NOT.
- ALL THERMOSTATS IN COMMON AREAS AND/OR SERVING COMMON AREAS SHALL BE PROGRAMMABLE. MOUNT THERMOSTATS WHERE INDICATED ON PLANS 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE THERMOSTAT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. (E CONTROLS, REFRIGERANT SPECIALTIES ETC.)
- PROVIDE FLEXIBLE CONNECTIONS ON ALL EQUIPMENT, PIPING AND DUCTWORK WHERE VIBRATION MIGHT OCCUR.
- WHEN SMOKE DETECTORS ARE REQUIRED, THE SMOKE DETECTOR, UPON THE DETECTION OF SMOKE, SHALL AUTOMATICALLY STOP THE EQUIPMENT FAN AND SOUND AN AUDIBLE ALARM. DETECTORS SHALL BE IN ACCORDANCE WITH NFPA 72. REFER TO EQUIPMENT SCHEDULES FOR EQUIPMENT REQUIRING SMOKE DETECTORS. SMOKE DETECTORS SHALL BE IN THE SUPPLY AIR STREAM AND FOR UNITS IN THE RETURN AIR PLenum PROVIDE A SMOKE DETECTOR IN THE RETURN AIR STREAM.
- CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
- COORDINATE ALL ROOF AND SLAB PENETRATIONS WITH STRUCTURAL ENGINEER.
- THE MECHANICAL CONTRACTOR SHALL FURNISH TO THE ELECTRICAL CONTRACTOR ALL MOTOR STARTERS AND/OR DISCONNECT SWITCHES FOR THE MECHANICAL EQUIPMENT SPECIFIED FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL WIRING.
- GAS PIPING SHALL BE STANDARD WEIGHT BLACK STEEL WITH WELDED OR SCREWED 150LB MALLEABLE.
- GROUND PLUG SHUT-OFF COCKS SHALL BE INSTALLED AT EACH EQUIPMENT SERVICE STUB. PIPING SHALL BE INSTALLED WITH VALVES, DRIP POCKETS, STOP COCKS AND OTHER ACCESSORIES THAT ARE REQUIRED TO GIVE PROPER AND ADEQUATE SERVICE.

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KEY PLAN

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