



ISSUE 09-10-10 ISSUED FOR PERMIT

ARCHITECTS, LP

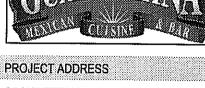
9575 Katy Frwy., #200 Houston, Texas 77024 tel: 713.722.7071 fax: 713.722.7072

CONSULTANTS
HOLSTE & ASSOCIATES
MEP Engineers

PROJECT NAME

GUADALUPANA

RESTAURANT

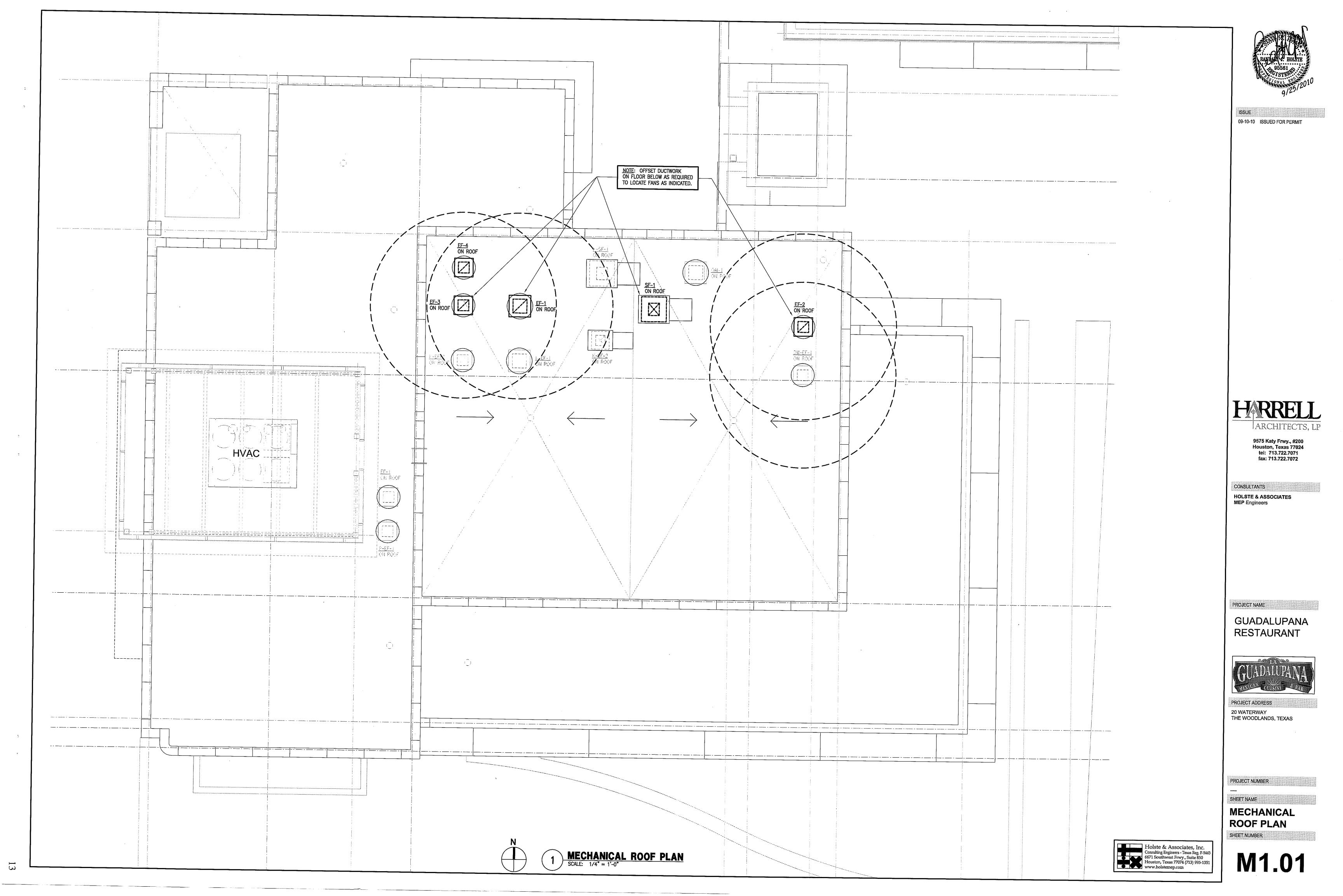


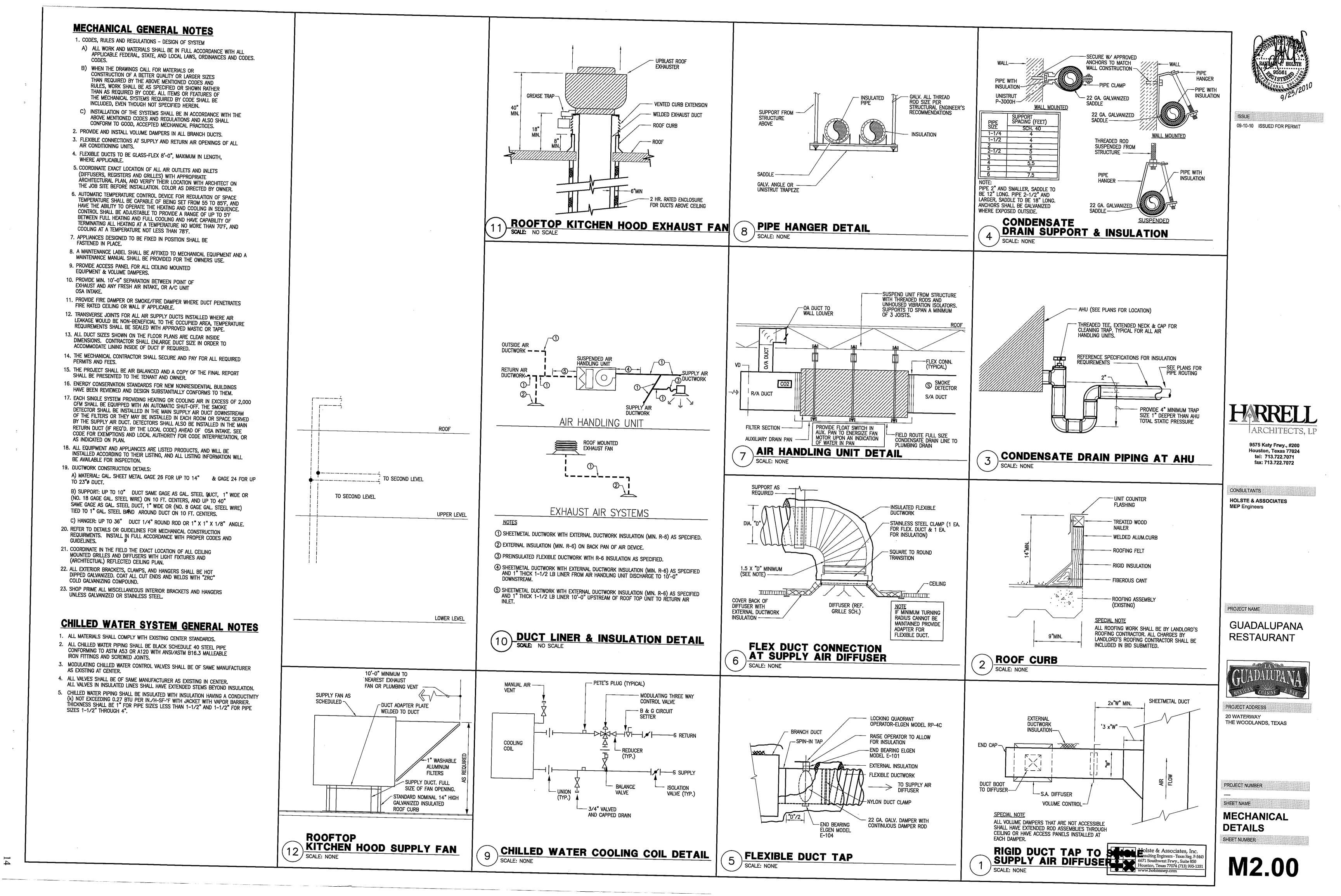
20 WATERWAY THE WOODLANDS, TEXAS

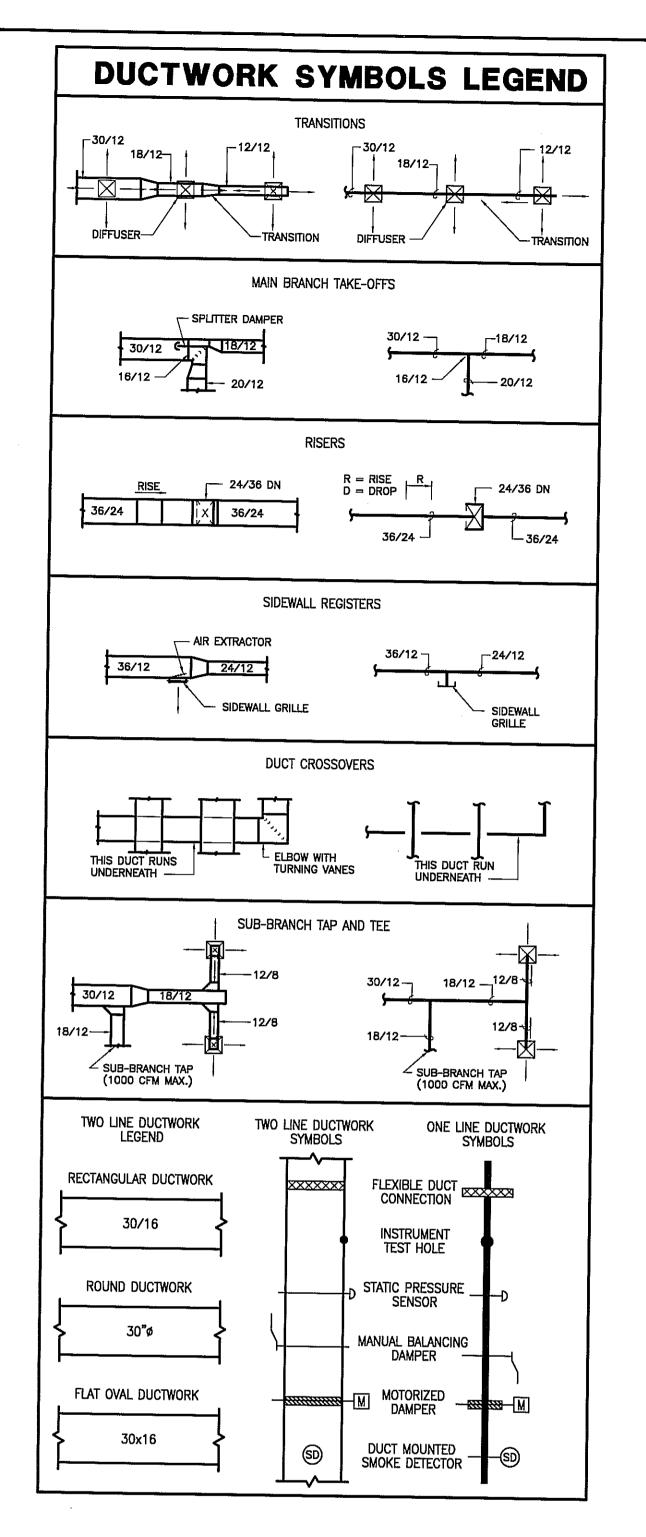
PROJECT NUMBER

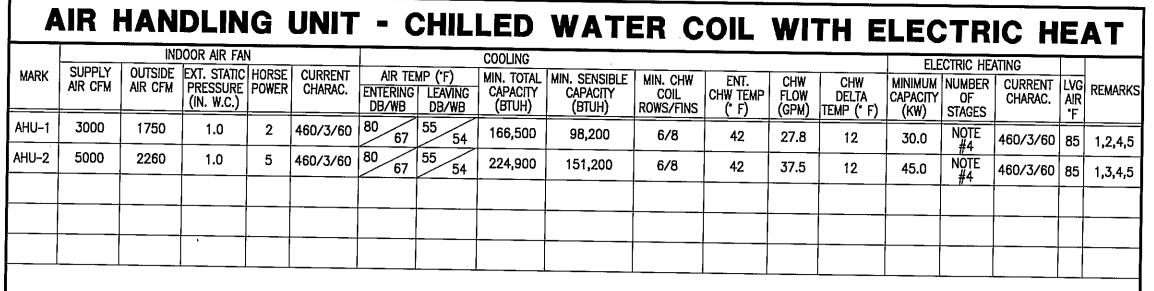
MECHANICAL
FLOOR PLAN
SHEET NUMBER

M1.00









GENERAL NOTES:

MECHANICAL CONTRACTOR.

- . EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND UNIT MOUNTED ELECTRIC HEATERS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET THE TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICAL CONTRACTOR.
- 2. MAXIMUM FACE VELOCITY OF CHILLED WATER COIL SHALL BE 500 FPM.

- 1. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT. 2. UNIT SHALL BE CARRIER 40RMS010 OR APPROVED EQUAL.
- 3. UNIT SHALL BE CARRIER 40RMS006 OR APPROVED EQUAL.
- 4. UNITS SHALL BE SUSPENDED HORIZONTAL DRAW-THRU WITH FLAT FILTER SECTION, CHILLED WATER COIL, AND ELECTRICAL HEATING COIL IN THE REHEAT POSITION. ELECTRIC HEATING COILS IN AHU-1 & 2 SHALL HAVE SCR CONTROL.
- 5. APPROXIMATE UNIT WEIGHTS: AHU-1 = 1500lbs., AHU-2 = 200 lbs.

<u> </u>	1		F	AN	AND	OU	TSIDE	AIR IN	NTAKE			
MARK	LOCATION	CFM	MAXIMUM RPM	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHARAC.	LOCALLY SWITCHED BY	INTERLOCKED WITH	FAN TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
EF-1	EXHAUST HOODS#1 & #2	6725	952	2.25"	5	480/3/60	HOOD SWITCH		ROOF MOUNTED	CAPTIVEAIRE		1,3,4
EF-2	EXHAUST HOOD#4	525	1169	.5"	1/3	120/1/60	HOOD SWITCH	_	ROOF MOUNTED	CAPTIVEAIRE		1,2,4
EF-3	EXHAUST HOOD#3	1050	1341	1.0"	3/4	120/1/60	HOOD SWITCH	_	ROOF MOUNTED	CAPTIVEAIRE		1,2,4
EF-4	TOILET EXHAUST	1100	1200	.5"	1/4	120/1/60	TIME CLOCK	<u>—</u>	ROOF MOUNTED	ACME	PV120E5	1,2,5
SF-1	MAKE-UP AIR HOODS#1	5380	876	1.25"	5	480/3/60		EF-1	ROOF MOUNTED	CAPTIVEAIRE	_	1,2,4
<u>,</u> .												
2. FAN SH 3. EF-1,2, INSTAL	TES: NAL STATIC PRESSURE INC NAMPERS WHERE APPLICABI NALL BE CENTRIFUGAL WITH NAME OF THE STATE	LE. H PREFABR URNISHED I	ICATED ROOF BY FOOD SEE	CURB.	ACTOR AND)	2. PRO 3. FAN 4. FAN	OF MOUNTED CENTR WIDE WITH MOTORIZ SHALL BE RATED F AND CURB PROVID	IFUGAL FAN. ED DAMPER. FOR HIGH TEMPERATU ED BY KITCHEN HOO ED BY MECHANICAL	d Supplier.	EXHAUST.	

IARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	NECK SIZE	FACE SIZE	MANUFACTURER	MODEL NUMBER	AIR PATTERN	MOUNTING	REMARKS
(A)	SUPPLY AIR	DIFFUSER	OBD	STEEL	OFF-WHITE	6"x6"	24"x24"	METALAIRE	SERIES 5000	SEE PLAN	LAY-IN	LOUVER FACE DIFFUSER
(B) <	SUPPLY AIR	DIFFUSER	OBD	STEEL	OFF-WHITE	8°x8"	24"x24"	METALAIRE	SERIES 5000	SEE PLAN	LAY-IN	LOUVER FACE DIFFUSER
<u>⊙</u>	SUPPLY AIR	DIFFUSER	OBD	STEEL	OFF-WHITE	10"x10"	24"x24"	METALAIRE	SERIES 5000	SEE PLAN	LAY-IN	LOUVER FACE DIFFUSER
D)	SUPPLY AIR	DIFFUSER	OBD	STEEL	OFF-WHITE	12"x12"	24"x24"	METALAIRE	SERIES 5000	SEE PLAN	LAY-IN	LOUVER FACE DIFFUSER
<u>Ē</u>	SUPPLY AIR	DIFFUSER	OBD	STEEL	OFF-WHITE	8"x8"	18"x18"	METALAIRE	SERIES 5000	SEE PLAN	SURFACE	LOUVERED FACE DIFFUSER
<u>£</u>	SUPPLY AIR	DIFFUSER	OBD	STEEL	OFF-WHITE	10"x10"	18"x18"	METALAIRE	SERIES 5000	SEE PLAN	SURFACE	LOUVERED FACE DIFFUSER
<u></u>	SUPPLY AIR	DIFFUSER	OBD	STEEL	OFF-WHITE	12"x12"	18"x18"	METALAIRE	SERIES 5000	SEE PLAN	SURFACE	LOUVERED FACE DIFFUSER
Ď	return or Exhaust air	GRILLE	OBD	STEEL	OFF-WHITE	12"x12"	N/A	METALAIRE	RH	SEE PLAN	SURFACE	45° DEFLECTION PARALLEL BLADE
<u> </u>	return air	GRILLE	N/A	STEEL	OFF-WHITE	20"x20"	N/A	METALAIRE	RH	SEE PLAN	LAY-IN	45° DEFLECTION PARALLEL BLADE
(K)	RETURN AIR	GRILLE	N/A	STEEL	OFF-WHITE	SEE PLAN	N/A	METALAIRE	RH	SEE PLAN	SURFACE	45° DEFLECTION PARALLEL BLADE
	SUPPLY AIR	REGISTER	OBD	STEEL	STANDARD	SEE PLAN	N/A	METALAIRE	VHD	SEE PLAN	SURFACE	DOUBLE DEFLECTION
W)	SUPPLY AIR	SLOT	OBD	ALUMINUM	STANDARD	48"x2 1/2"	8"ø	METALAIRE	6650 (2)1/2" SLOTS	N/A	SURFACE	ADJUST FOR HORIZONTAL AIR FLO

MARK						
MARK	ACTUATOR	DUTY	BLADE ACTION	MANUFACTURER	MODEL NUMBER	REMARKS
D-1	MANUAL BALANCING	UNDER 9" WIDE	N/A	N/A	N/A	SEE SMACNA CONSTRUCTION DETAILS REFERENCED "TYPICA CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS."
D-2	MANUAL BALANCING	OVER 9" WIDE	OPPOSED	RUSKIN	MD-35	MANUAL DAMPER WITH STANDARD CONSTRUCTION FEATURES AND VENTLOCK #637 LOCKING REGULATOR.
D-3	MOTORIZED	OVER 9" WIDE	OPPOSED	RUSKIN	CD-60	LOW LEAKAGE DAMPER WITH BLADE SEALS

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SH	OWN (ON PLANS)
GENERAL			
#	KEY NOTE TAG		
①	NOTE SPECIFIC TO DETAIL TAG		
<u> </u>	REVISION TAG		
	NEW EQUIPMENT		
DUCTWOR	К		
\boxtimes	SUPPLY AIR DUCTWORK		
	RETURN AIR AND OUTSIDE AIR DUCTWORK		
	EXHAUST AIR DUCTWORK		
~	FLEXIBLE DUCTWORK		
	SUPPLY AIR DUCTWORK THROUGH HORIZO	NTAL	PARTITION
	RETURN AIR AND OUTSIDE AIR DUCTWORK	THRO	UGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZO	DNTAL	PARTITION
FD	FIRE DAMPER		
	MANUAL BALANCING DAMPER (SEE DAMPER	R SCH	EDULE)
	MOTORIZED DAMPER (SEE DAMPER SCHED	ULE)	
SENSORS	AND DAMPERS		
①	THERMOSTAT AND TEMPERATURE SENSOR	VD	MANUAL VOLUME DAMPER
<u> </u>	HUMIDISTAT	MD	MOTORIZED DAMPER
<u>(S)</u>	SMOKE DETECTOR	CO2	CARBON DIOXIDE DETECTOR
AIR DEVICE	S		
(H)	AIR DEVICE TAG (REFER TO AIR DEVICE SCI	HEDUL	E)
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW	V	
<u> </u>	RETURN AIR GRILLE WITH SOUND BOOT		
\triangleleft	EXHAUST AIR GRILLE		

AIR	BALAI	NCE	ANA	LYSI
DINING				
UNIT NO.	SUPPLY CFM	0.A.	EXHAUST	
AHU-2	5000	2280	-	
EF-4	-	-	1100	
EF-3	•••	-	1050	
SUB-TOTAL	5000	2280	2150	
KITCHEN				
UNIT NO.	SUPPLY CFM	0.A.	EXHAUST	
AHU-1	3000	1750	-	
EF-1	-	-	6725	
SF-1	- ·	5380	_	
EF-2	-		525	
SUB-TOTAL	3000	7130	7250	
outside a	of Makeup Air Ir Thru Ahu2 He Dining Roo		PROVIDED FR	ROM
AIR BALAN	CE SUMMARY -	BUILDING		
AREA	SUPPLY	0.A.	EXHAUST	
DINING	5000	2260	2150	
KITCHEN	3000	7140	7250	
TOTAL	8000	9400	9400 (-(0-)

ŀ	100) AN	ALYS
KITCHEN H	00D NO.1		
UNIT NO.	MAKEUP	% MAKEUP	EXHAUST
EF-1	_	_	3600
SF-1	2880	-	_
TOTAL	2880	80%	3600
KITCHEN H	00D NO.2		
UNIT NO.	MAKEUP	% MAKEUP	EXHAUST
EF-2	_	-	3125
SF-2	2500	_	_
TOTAL	2500	80%	3125
DISHWASHE	R CONDENS	SATE HOOD #	4 (CFM)
UNIT NO.	MAKEUP	% MAKEUP	EXHAUST
EF-2	_	-	525
TOTAL	-	0%	525
Tortilla H	DOD #3 (CI	FM)	
UNIT NO.	MAKEUP	% MAKEUP	EXHAUST
EF-3	_	-	1050
TOTAL	_	0%	1050

BALANCE OF MAKEUP AIR WILL BE SUPPLIED THRU AIR HANDLING UNITS





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CONSULTANTS **HOLSTE & ASSOCIATES** MEP Engineers

PROJECT NAME

GUADALUPANA RESTAURANT



PROJECT ADDRESS 20 WATERWAY THE WOODLANDS, TEXAS

PROJECT NUMBER

SHEET NAME **MECHANICAL SCHEDULES**