	T	LEGEND
SINGLE LINE	DOUBLE LINE	DESCRIPTION
5 20x125	20x12	FIRST DIMENSION DENOTES VIEW SHOWN; RECTANGULAR OR OVAL
$S \xrightarrow{R} S$	<u>P</u>	RISE OR DROP IN DIRECTION OF ARROW, RECTANGULAR DUCT
5-5-5		TRANSITION, 18" MIN. LENGTH, 15° MAX. EACH SIDE. ROUND OR RECTANGULAR
20x12 AL	20x12 AL	ACOUSTICAL LINED DUCT, LIMIT AS SHOWN. DIMENSIONS ARE NET INSIDE
5-0-5		RECTANGULAR TO ROUND TRANSITION
`]		90° ELL W/TURNING VANES
5		45° HEEL TAKE-OFF FITTING, RECTANGULAR DUCT
5-7-5		CONICAL OR FLARED SPIN-IN OR CONICAL TAP
ـــــــــــــــــــــــــــــــــــــ	<u>π</u> <u>5</u> 18 Q	ON RECTANGULAR DUCT 18 INCH ROUND DUCT
R F	SCR (9	RISE OR DROP IN DIRECTION OF ARROW,
		ROUND DUCT ROUND DUCT ELBOW; R/D=1.5MIN.
	RU	
		90° STRAIGHT TEE FITTING
J Y		90° CONICAL TEE FITTING
1 22	u da	45° LATERAL FITTING
1 22	u de la	45' CONICAL LATERAL FITTING
	内	DIVIDED FLOW FITTING
		Y – FITTING
l ⊱—∽ç		
		SUPPLY DUCT TURNING TOWARD
		SUPPLY DUCT TURNING AWAY RETURN DUCT TURNING TOWARD
		RETURN DUCT TURNING AWAY
5		EXHAUST DUCT TURNING TOWARD
└ └ 		EXHAUST DUCT TURNING AWAY
ب ا		ROUND DUCT TURNING TOWARD
ر ک		ROUND DUCT TURNING AWAY
5-0		OVAL DUCT TURNING TOWARD
ب ا		OVAL DUCT TURNING AWAY
		BALANCE DAMPER OR VOLUME DAMPER
		FIRE DAMPER (FD), FIRE SMCKE DAMPER (FSD), BLAS GATE (BG), VOLUME DAMPER (VD), BALANCE DAMPER
<u>s</u>		
4	$\begin{array}{c} A10x8-150\\ \\ A10x8-150\end{array}$	SUPPLY REGISTER, TAG "A", 150 CFM, SIZE 10"x8"
••••••	A10x8−150 ↔-	
_	B10x8−150	RETURN OR EXHAUST REGISTER, TAG "B", 150 CFM, SIZE 10"x8"
	B10x8-150	
	A8-150	CEILING SUPPLY DIFFUSER, TAG "A", 150 8" NECK SIZE
	B	CEILING RETURN REGISTER, TAG "B",
		SEE SCHEDULE FOR SIZE
	C	CEILING EXHAUST REGISTER, TAG "C", SEE SCHEDULE FOR SIZE
	L	BALANCE DAMPER
	SFC	TION A / SHEET M1
TB1-01	· · · ·	TYPE, FLOOR, AH UNIT NO.
M1		IIP. MARK NO. M1 / SEE EQUIP. SCHEDULE ISION
		ET NOTE
Ĵ	THE	RMOSTAT
	DE	SIGN CRITERIA
	LOCATION: COLLEGE	
SAN MA		
CALIFOR	NIA CLIMATE Z	<u>ONE:</u> 3
		NDITIONS (ASHRAE CLIMATIC DATA):
		84°F DB/65°F WB, 70°F DESIGN W 31°F DB
SUMMER WINTER		JIF UB
WINTER	DESIGN COND	ITIONS: COOLING (SUMMER) HEATING (WIN
WINTER		
WINTER INDOOR		ITIONS: COOLING (SUMMER) HEATING (WIN

	LEGEND	
SYMBOL	DESCRIPTION	
+	POINT OF CONNECTION MOTOR OPERATOR	
E ######	EXISTING TO BE REMOVED	
	PUMP BALL VALVE	
⊘ <i>#</i>	BALANCE VALVE/CIRCUIT SETTER BUTTERFLY VALVE	
N	CHECK VALVE - SWING TYPE	
NRS R R R R R R R R R R R R R R R R R R	CHECK VALVE - NON SLAM TYPE CONTROL VALVE (2-WAY), 무 ELECT., 个 PNEU.	
	CONTROL VALVE (3-WAY), 中 ELECT., 个 PNEU.	
	TRIPLE DUTY VALVE GLOBE VALVE	
X X	GATE VALVE PRESSURE REDUCING VALVE	
₩ ~~ X	PRESSURE RELIEF VALVE	
X M	MANUAL AIR VENT. W/3/8" COCK W/DISCHARGE TO DRAIN FLOW CONTROL VALVE - AUTOMATIC	
A	LOCKSHIELD GATE VALVE	
N N	FLOW METER ANGLE VALVE	
	DIAPHRAGM VALVE	
년 101	COCK VALVE PLUG VALVE	
K] I∑I	STRAINER QUICK DISCONNECT	
	SUCTION DIFFUSER	
□ ₩	BASKET STRAINER FLEXIBLE PIPE CONNECTION	
수	AUTOMATIC AIR VENT	
J. IA	HOSE BIBB STRAINER W/ BLOW-OFF VALVE	
	CONCENTRIC PIPE REDUCER	
	ECCENTRIC PIPE REDUCER/TOP FLAT ECCENTRIC PIPE REDUCER/BOTTOM FLAT	
0 Ø	FILTER PRESSURE GAUGE	
	THERMOMETER	
	FLOW SWITCH THERMOMETER SENSOR WELL	
	UNION	
	FLANGE FLOW METER	
-BFP	BACK FLOW PREVENTOR	
RPBP FS	REDUCED PRESSURE BACK FLOW PREVENTER FLOW SWITCH	
PS 	PRESSURE SWITCH STEAM TRAP ASSEMBLY	
M	WATER METER	
	CIRCUIT SENSOR (FLOW) MAGNEHELIC GAUGE	
	PROVIDE AND INSTALLED BY ELECTRICAL CONTRATOR	
	PROVIDE AND INSTALLED BY MECHANICAL CONTRATOR SUPPLIED BY MECH., MOUNTED & WIRED BY ELECTRICAL	
	SUPPLIED & MOUNTED BY MECH., WIRED BY ELECTRICAL	
⊶ ا ⊷ م¥ہ	NORMALLY OPEN ELECTRICAL CONTACT NORMALLY CLOSED ELECTRICAL CONTACT	
	INDICATING LIGHT (PRESS TO TEST) G=GREEN/R=RED/B=BLUE COIL	
	RELAY	
	TRANSFORMER TRANSFORMER	
्र्	THERMOSTAT SWITCH (BREAK/OPEN ON RISE)	
°₩° ∿	HEATER FUSE	
	CIRCUIT BREAKER ONOFF SWITCH	
ంగాం	OVERLOAD RELAY	
° °∕ °	TIME DELAY RELAY CONTACT, NEUTRAL TIME DELAY RELAY	
₩.	MAIN AIR, 20 PSI	
	RESTRICTOR TEE 1/4" COPPER TUBE (PRESSURE SENSOR)	
	GROUND	
-D	DAMPER MOTOR DAMPER MOTOR	
	PITOT TUBE TEMPERATURE SENSOR - DUCT MOUNTED	
Н	HUMIDITY SENSOR - DUCT MOUNTED	
SD • • •	SMOKE DETECTOR - DUCT MOUNTED ELECTRICAL FIELD WIRING	
5	PNEUMATIC TUBING	
,, 	ELECTRICAL WIRING BY EQUIPMENT MANUFACTURER PRESSURE TAP. PETE'S PLUG	
— — —	PIPE ANCHOR	
	PIPE CAP	

	LEGEND	
SYMBOL	DESCRIPTION	
	LINE CONTINUED	
- Э	LINE DOWN	
0	LINE UP	
	LINE RISE OR DROP	
	LINE BRANCH OFF FROM TOP	
- \	LINE BRANCH OFF FROM BOTTOM	
L	LINE BRANCH OFF FROM SIDE	
	SLOPE DOWN (DIRECTION OF ARROW)	
	DIRECTION OF FLOW	
	CHILLED WATER SUPPLY	
-CHWR	CHILLED WATER RETURN	
- CWS	CONDENSER WATER SUPPLY	
- CWR	CONDENSER WATER RETURN	
- CD	CONDENSATE DRAIN	
-HWS	HOT WATER SUPPLY	
HWR	HOT WATER RETURN	
PCHS —	PRIMARY CHILLED WATER SUPPLY	
PCHR —	PRIMARY CHILLED WATER RETURN	
PCWS —	PROCESS COOLING WATER SUPPLY	
PCWR —	PROCESS COOLING WATER RETURN	
— RA —	RETURN AIR	
- RL	REFRIGERANT LIQUID	
– RS —	REFRIGERANT SUCTION	
— sa —	SUPPLY AIR	
SCHS —	SECONDARY CHILLED WATER SUPPLY	
SCHR —	SECONDARY CHILLED WATER RETURN	

ABBREVIATIONS			
ABBREV	DESCRIPTION		
AAD AAV	AUTOMATIC AIR DAMPER AUTOMATIC AIR VENT		
AD ADJ	ACCESS DOOR (IN DUCT OR EQUIPMENT) ADJUSTABLE		
AE AFF	ACID EXHAUST ABOVE FINISHED FLOOR		
AFM	AIR FLOW MONITOR AUTOMATIC FIRE SPRINKLER		
AFS	AIR FLOW SWITCH AIR HANDLING UNIT		
Al AL	ANALOG INPUT ACOUSTICAL LINING		
ALUM	ALUMINUM		
AO AP	ANALOG OUTPUT ACCESS PANEL (IN CEILING OR WALL)		
ARCH	ARCHITECTURAL AUXILIARY CONTACT		
AW	ACID WASTE DRAIN ACID WASTE VENT		
BDD	BACKDRAFT DAMPER BALANCE DAMPER		
BFP	BOTTOM FLAT BACK FLOW PREVENTER		
BFF BG	BELOW FINISHED FLOOR BLAST GATE		
BHP BK	BRAKE HORSEPOWER BREAK (OPEN) CONTACT		
BLDG BOD	BUILDINĠ BOTTOM OF DUCT		
BOP BT	Bottom of Pipe By—Pass Timer		
BTUH BV C	BRITISH THERMAL UNITS PER HOUR BALANCE VALVE COMMON		
CA CD	COMPRESSED AIR CEILING DIFFUSER		
CD CC	CONDENSATE DRAIN LINE COOLING COIL		
CDA CFF	CLEAN DRY AIR CAP FOR FUTURE		
CFM CHWR	CUBIC FEET OF AIR PER MINUTE CHILLED WATER RETURN		
CHWS	CHILLED WATER SUPPLY DDC CONTACT INPUT		
CKV CL	CHECK VALVE CENTERLINE		
CLG CO CONC	CEILING DDC CONTACT OUTPUT		
CONN	CONCRETE CONNECT, CONNECTION		
CTE	CONTRACTOR CONNECT TO EXISTING		
CWR CWS	CONDENSER WATER RETURN		
DA DB	DIRECT ACTING, DAMPER ACTUATOR		
DDC DF	DIRECT DIGITAL CONTROL		
DI	DIGITAL INPUT		
DIR DIS DI	CONTRACTOR CONNECT TO EXISTING CITY WATER (DOMESTIC) CONDENSER WATER RETURN CONDENSER WATER SUPPLY DIRECT ACTING, DAMPER ACTUATOR DRY BULB TEMPERATURE DIRECT DIGITAL CONTROL DRINKING FOUNTAIN DIGITAL INPUT DEIONIZED WATER RETURN DEIONIZED WATER SUPPLY DOOR LOUVER		
DN	DOWN DIGITAL OLITPLIT		
DP	DEIONIZED WATER SUPPLY DOOR LOUVER DOWN DIGITAL OUTPUT DIFFERENTIAL PRESSURE DIFFERENTIAL PRESSURE SWITCH DIFFERENTIAL PRESSURE TRANSMITTER DISCONNECT SWITCH DRAWING EXISTING EXISTING EXISTING EXISTING AND DAMAGED		
DPT	DIFFERENTIAL PRESSURE TRANSMITTER DISCONNECT SWITCH		
DWG (E) OR EXIST	DRAWING EXISTING		
EA	EXHAUST AIR OR EACH EXHAUST AIR DAMPER		
EAT	ENTERING AIR TEMPERATURE EXHAUST FAN		
EFF EG	EFFICIENCY EXHAUST GRILLE		
(EP) EQ	EMERGENCY POWER EQUAL		
ER ES	EXHAUST REGISTER EMERGENCY SHOWER		
ESE EVAP	EMERGENCY SHOWER & EYE WASH EVAPORATOR		
EWC	EMERGENCY EYE WASH EVAPORATIVE WATER COOLER		
EWT	ENTERING WATER TEMPERATURE EXHAUST		
(F) FC	FUTURE FAN COIL UNIT		
FCV	FLOW CONTROL VALVE FIRE DAMPER		
FF	FINISHED FLOOR		

	ABBREVIATIONS			-	
ABBREV	DESCRIPTION		1.	ALL	
Flr Fm Fms	FLOOR FLOW METER FLOW MEASURING STATION (AIR OR WATER MONITER)			<u></u>	لكك
Fob Fot FPM	FLAT ON BOTTOM FLAT ON TOP FEET PER MINUTE				
FPS FS	FEET PER SECOND FLOW SWITCH, FLOOR SINK		•		
FSD FV G	FIRE/SMOKE DAMPER FACE VELOCITY NATURAL GAS				
GA GAL	GAUGE GALLON			STAN	D/
GALV GE GEF	GALVANIZED GENERAL EXHAUST GENERAL EXHAUST FAN		2.	THE SHAL	
GPM GSM	GALLONS PER MINUTE GALVANIZED SHEET METAL			THE	
GYP HB HC	GYPSUM BOARD HOSE BIBB HEATING COIL		3.	the to e	
HOA HP HR	HAND-OFF AUTOMATIC SWITCH HORSEPOWER HOUR		4.	THE	C
HT HTG	HEIGHT HEATING		5.	THE UNLE THAT	ES
HVAC HW HWR	HEATING, VENTILATING AND AIR CONDITIONING HOT WATER (DOMESTIC) HEATING WATER RETURN			ISSU	EC
HWS ICW	HEATING WATER SUPPLY INDUSTRIAL COLD WATER		6.	DRAV	
IN IP KW, KWH	INCH INTERFACE PANEL KILOWATT, KILOWATT HOUR	х. 	_	of e Resf	20
LAT LWT	LEAVING AIR TEMPERATURE LEAVING WATER TEMPERATURE		7.	INST/ COOI BEFC	RD
MA MAU MAV	MILLIAMPS MAKE—UP AIR UNIT MANUAL AIR VENT, W/3/8" COCK W/DISCHARGE TO DRAIN	· .		ETC.	
MAX	MAXIMUM MOTOR CONTROL CENTER		8.	ALL SAN	M
MD MECH MFR	MANUAL DAMPER MECHANICAL MANUFACTURER			of t Part	
MIN MK N	MINIMUM MAKE (CLOSED) CONTACT NEUTRAL		9.	ANY OTHE	ER
(N)	NEW NORMALINA OLOGED			TRAN TRAN	
NG NIMC NO	NATURAL GAS NOT IN MECHANICAL CONTRACT NORMALLY OPEN: NUMBER		10.	CON TO F	
NIPC NTS	NORMALLY CLOSED NATURAL GAS NOT IN MECHANICAL CONTRACT NORMALLY OPEN; NUMBER NOT IN PLUMBING CONTRACT NOT TO SCALE OUTSIDE AIR		11.	BRAN	
OA OBD OC	OUTSIDE AIR OPPOSED BLADE DAMPER ON CENTER		12	OTHE	
od Ol's	OUTSIDE DIAMETER MOTOR STARTER OVERLOADS		1 4.0	LOCA	
PCHR PCHS PCV	PRIMARY CHILLED WATER RETURN PRIMARY CHILLED WATER SUPPLY PRESSURE CONTROL VALVE		13.	SUPF	
PCWR PCWS	PRESSURE CONTROL VALVE PROCESS COOLING WATER RETURN PROCESS COOLING WATER SUPPLY PRESSURE DROP; PIT DRAIN PREFILTER, PERFORATED FACE PRESSURE GAUGE PREHEAT COIL			APPR	20
PF PG PH	PRESSURE DROF; PIT DRAIN PREFILTER, PERFORATED FACE PRESSURE GAUGE			PROV	
PH PI PI BC	PREHEAT COIL DDC PNEUMATIC INPUT PLUMBING			WOR	
PG PH PLBG PO POC PRV PSI (R)	DDC PNEUMATIC OUTPUT POINT OF CONNECTION		17.	GUAR WRIT	
PRV PSI (R)	PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH RELOCATE		18.	THE	C
RD	REIURN AIR, REVERSE ACTING ROOF DRAIN			PENE	
ref Reqd Rg	REFERENCE REQUIRED RETURN GRILLE		19.	GENE HOT	
RH RL	REHEAT COIL; RELATIVE HUMIDITY REFRIGERANT LIQUID			QUAN)R'
RPBP RPM RR	REDUCED PRESSURE BACKFLOW PREVENTER REVOLUTIONS PER MINUTE RETURN REGISTER			Comi Addi	
RS RV S/S	REFRIGERANT SUCTION RELIEF VALVE			REMO	
sà Sched	START/STOP SUPPLY AIR SCHEDULE			PROV	
SCHR SCHS SD	SECONDARY CHILLED WATER RETURN SECONDARY CHILLED WATER SUPPLY SMOKE DETECTOR			OPER	SV.
SD SOV	SLOT DIFFUSER SHUT OFF VALVE			BRIN	G IR/
SM SP SPEC	SHEET METAL STATIC PRESSURE OR SET POINT SPECIFICATION		the state of the sectors	THAT	· •
SR SS	SUPPLY AIR REGISTER STAINLESS STEEL	ſ			
STRUC SWE SWR	STRUCTURAL SIDE WALL EXHAUST SIDE WALL RETURN				
SWS SWT	SIDE WALL SUPPLY SIDE WALL TRANSFER TEMPORARY				
(T) TB TCP	TERMINAL BOX TEMPERATURE CONTROL PANEL			ALL HORI	
TCV TEMP TF	TEMPERATURE CONTROL VALVE TEMPERATURE TOP FLAT			THE	
THERM THRU	THERMOMETER THROUGH			CALI	
TS T'STAT TV	TEMPERATURE SENSOR THERMOSTAT TURNING VANE			THE	۷
TW TYP	TEMPERED WATER TYPICAL			MOD	
UBC UMC UON	UNIFORM BUILDING CODE UNIFORM MECHANICAL CODE UNLESS OTHERWISE NOTED			SELE	
UPC VAC	UNIFORM PLUMBING CODE VACUUM			WHE BE S	
VAV VD VFD	VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE			REPF	
VOC VOL VTR	VOLTILE ORGANIC COMPOUND VOLUME VENT THRU ROOF			ALL BY (
W/ W/O	WITH WITHOUT				
WB WF	WET BULB TEMPERATURE WIDE FLANGE	ſ			
			SHE	ET	Г
			NO		L
NOTE:	SYMBOLS AND ABBREVIATIONS LISTED ARE FOR GENERAL USE. DISREGARD THOSE WHICH ARE		MO		$\left \right $
	NOT USED ON DRAWINGS.			.1D	
NOTE:	IT IS IN THE DESIGN PROFESSIONAL'S	.	M2		
	JUDGEMENT THAT THE DESIGN DESCRIBED IN THIS SET OF DRAWINGS IS IN CONFORMANCE		MG		$\left \right $
	WITH APPLICABLE STATE LAWS AND LOCAL ORDINANCES AND DOES NOT INFRINGE UPON EXISTING LIFE SAFETY SYSTEMS	ļ	M6	.2	
	EXISTING LIFE SAFETY SYSTEMS.		teriletics enterleptopologi		

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	ала на полна на полна По полна на п	
	GENERAL NOTES	
ALL NEW CONSTRUCTION SHALL	CONFORM TO CURRENT CITY, STATE AND NATIONA	L CODES, STANDARDS AND REQUIREMENTS
COVERNING CODES:	CALIFORNIA CODE OF REGULATIONS TITLE 24: PART 2 2001 CALIFORNIA BUILDING CODE, PART 3 2004 CALIFORNIA ELECTRICAL COD PART 4 2001 CALIFORNIA MECHANICAL COI PART 5 2001 CALIFORNIA PLUMBING CODE PART 9 2001 CALIFORNIA FIRE CODE CALIFORNIA CODE OF REGULATIONS TITLE 19 2001 CALIFORNIA REFERENCED STANDARDS, F	WITH LATEST AMENDMENTS E DE
TANDARDS AND GUIDELINES:	NFPA 13, 1999 EDITION: AUTOMATIC SPRINKL NFPA 72, 2003 EDITION: FIRE ALARM CODE N	

THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS IN THE FIELD BEFORE COMMENCEMENT OF THE WORK AND SHALL REPORT ANY DISCREPANCIES AND/OR INCONSISTENCIES BETWEEN THE DRAWINGS AND EXISTING FIELD CONDITIONS TO THE ENGINEER FOR CLARIFICATIONS BEFORE SUBMITTING HIS PROPOSAL.

THE CONTRACTOR SHALL CONSULT ARCHITECTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL TRADE PERMITS AND INSPECTIONS.

THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT TO COMPLETE WORK AS SET FORTH IN THESE PLANS UNLESS OTHERWISE NOTED. THE SUBMISSION OF A BID OR PROPOSAL SHALL BE CONSIDERED AS CONCLUSIVE EVIDENCE THAT THE CONTRACTOR IS THOROUGHLY FAMILIAR THE INTENT OF THE CONTRACT DOCUMENTS, AND NO CHANGE ORDER WILL BE SSUED FOR ANY ADDITIONAL LABOR OR MATERIAL REQUIRED TO RECTIFY ANY DISCREPANCY DISCOVERED OR REPORTED TO THE ENGINEER AFTER THE EXECUTION OF THE CONTRACT.

RAWINGS ARE DIAGRAMMATIC IN NATURE AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED FOR EXACT LOCATION AND SIZES OF EXISTING UTILITIES, THE PROPOSED POINT OF CONNECTIONS TO EXISTING SYSTEMS AND NEW ROUTINGS. THE CONTRACTOR IS RESPONSIBLE TO THOROUGHLY VERIFY ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID.

NSTALL ALL DUCTWORK AND EQUIPMENT AS HIGH AS POSSIBLE (TIGHT TO BEAM STRUCTURE), UON. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL WORK WITH ARCHITECTURAL PLANS, WORK OF OTHER TRADES AND EXISTING CONDITIONS BEFORE COMMENCEMENT OF THE WORK. MOVE AND/OR ADJUST EXISTING ITEMS (PIPING, DUCTS, CONDUIT, EQUIPMENT, ETC ...) WHERE NECESSARY FOR THE INSTALLATION OF NEW WORK.

ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO APPROVAL BY OWNER. PROVIDE ALL WORK TO CONFORM TO EXISTING SAN MATEO COMMUNITY COLLEGE DISTRICT STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A COPY OF THE STANDARDS. ANY PORTION OF THE WORK FOUND TO BE DEFECTIVE SHALL BE REPLACED BY THE CONTRACTOR AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

ANY NEW OR EXISTING DUCT OR PIPING OFFSETS REQUIRED AS RESULT OF JOB CONDITIONS OR LACK OF COORDINATION WITH OTHER TRADES, SHALL BE PROVIDED AT NO ADDITIONAL COST TO OWNER AND SUBJECT TO ARCHITECT'S REVIEW. NOT ALL DUCT TRANSITIONS, "UPS" AND "DOWNS" ARE SHOWN ON THE PLANS, IT IS THE CONTRACTOR'S RESPOSIBILITY TO PROVIDE TRANSITIONS AS REQUIRED TO ACCOMODATE EXISTING CONDITIONS AND DESIGN INTENT SHOWN ON THESE DOCUMENTS.

CONTRACTOR SHALL PROVIDE DUCTWORK AND TRANSITION EQUAL TO DUCT FREE AREA OF DUCTWORK AS SHOWN ON DRAWING, TO PREVENT A CONFLICT WITH EXISTING CONDITIONS OR TO RESOLVE DUCTWORK CONFLICTS.

BRANCH DUCT RUN-OUT SIZE TO DIFFUSERS/GRILLES SHALL BE THE SAME SIZE AS DIFFUSERS/GRILLES NECK SIZE UNLESS THERWISE NOTED.

CONSTRUCT AND INSTALL DUCTWORK ACCORDING TO LATEST SMACNA STANDARDS AND ALL APPLICABLE CODES INCLUDING LOCAL CODES.

SUPPORT ALL DUCTWORK AND PIPE ACCORDING TO LATEST MASON INDUSTRY MANUAL - "SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED PIPING, DUCTWORK, AND ELECTRICAL SYSTEMS". SUPPORTS FOR ALL EQUIPMENT, DUCT, AND PIPING SHALL BE PPROVED BY A CALIFORNIA LICENSED STRUCTURAL ENGINEER.

PROVIDE MANUAL VOLUME DAMPERS UPSTREAM OF EACH AIR OUTLET.

CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED BY HIS WORK TO THE EXISTING REMAINING DUCTWORK, COILS, PIPE, ETC. WORK UNDER THIS SECTION SHALL NOT BE CONSIDERED COMPLETE UNTIL ACCEPTED BY THE OWNER IN WRITING.

SUARANTEE ALL WORK AGAINST FAULTY MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL WRITTEN ACCEPTANCE BY THE ENGINEER AND OWNER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS. SEAL AROUND ALL PIPES & DUCTS ENETRATING FIRE SEPARATIONS WITH NON-COMBUSTIBLE PACKING RETAINED BY METAL COLLARS. THE ASSEMBLY SHALL BE PPROVED BY STATE FIRE MARSHALL AND SHALL HAVE THE SAME OR HIGHER RATING AS THE FIRE SEPARATION.

SENERAL CONTRACTOR SHALL RETAIN INDEPENDENT TESTING AGENCY FOR TESTING AND BALANCING OF THE AIR AND HEATING HOT WATER SYSTEMS. TESTING AGENCY SHALL BALANCE AIR FLOWS AT ALL SUPPLY AIR OPENINGS ON THE ENTIRE FLOOR TO UANTITIES INDICATED IN PLANS. TESTING AGENCY SHALL BE MEMBER OF AABC AND SHALL SUBMIT THE FINAL BALANCE REPORT WITHIN 10 DAYS OF THE COMPLETION OF WORK. TESTING AGENCY SHALL ALLOW A 90-DAY PERIOD AFTER COMPLETION OF TESTING DURING WHICH TIME ADJUSTMENTS TO THE SYSTEM MAY BE REQUESTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE CLIENT. THE TESTING AGENCY SHALL NOT BE THE SAME AS THE MECHANICAL CONTRACTOR.

REMOVE ALL ABANDONED MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK, PIPING, ETC.

PROVIDE THERMOSTATS/CONTROLS TO MATCH EXISTING BUILDING SYSTEM. COORDINATE WITH BUILDING ENGINEER.

THE DESIGN ASSUMES THAT ALL EXISTING HVAC EQUIPMENT AND SYSTEMS ARE IN PROPER WORKING CONDITION AND OPERATING AS INTENDED PER ORIGINAL DESIGN. THE MECHANICAL CONTRACTOR SHALL SURVEY THE MECHANICAL EQUIPMENT, DUCTWORK, PIPING, INSULATION (ON DUCT AND PIPING) FOR ANY REPAIR OR IMPROVEMENT THAT MAY BE REQUIRED TO BRING THESE ITEMS TO PROPER OPERATING CONDITION. A DETAILED REPORT SHALL BE SUBMITTED BY THE MECHANICAL CONTRACTOR TO THE ARCHITECT AND MECHANICAL ENGINEER OF RECORD FOR REVIEW COMMENTING ON ANY DEFICIENT ITEMS HAT NEED TO REPAIRED OR REPLACED IN ASSOCIATED AREAS OF WORK SCOPE AND ASSOCIATED MECHANICAL ROOM.

SCHOOL EQUIPMENT ANCHORAGE NOTE

ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

THE TOTAL DESIGN LATERAL SEISMIC FORCE SHALL BE DETERMINED FROM SECTION 1632A.2 CALIFORNIA BUILDING CODE (CBC) 2001. FORCES SHALL BE APPLIED IN THE HORIZONTAL DIRECTIONS, WHICH RESULT IN THE MOST CRITICAL LOADINGS FOR DESIGN.

THE VALUE OF AP (COMPONENT AMPLIFICATION FACTOR) AND RP (COMPONENT RESPONSE MODIFICATION FACTOR) OF SECTION 1632A.2 SHALL BE SELECTED FROM TABLE 16A-0, CBC 2001. THE VALUE OF ID (SEISMIC IMPORTANCE FACTOR) AND CO (SEISMIC COEFFICIENT) SHALL BE SELECTED FROM TABLE 16A-K AND 16A-Q, CBC 2001, RESPECTIVELY.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

ALL ANCHORAGE & EQUIPMENT SUPPORT SHALL BE DESIGNED & APPROVED (STAMPED & SIGNED) BY CALIFORNIA LICENSED STRUCTURAL ENGINEER.

	4		
DRAWING INDEX	,		
DESCRIPTION		· ·	`
MECHANICAL SYMBOLS, ABBREVIATIONS, NOTES AND INDEX	, ,		
MECHANICAL SCHEDULES AND TITLE 24 DOCUMENTATION			······································
MECHANICAL DEMOLITION PLANS		· · · ·	
 MECHANICAL PLANS			
MECHANICAL PIPING PLANS			
MECHANICAL DETAILS		1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	
 MECHANICAL DETAILS			
		· · · ·	

SKYLINE COLLEGE

TCOM CLASSROOM RENOVATION BUILDING 2

Skylin 🖉

SAN MATEO COUNTY 3401 CSM DRUVE SAN MATEO CA 94402

architect STEINBERG ARCHITECTS 60 Pierce Avenue San Jose CA 95110

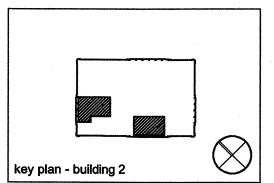




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ac22 date	- RS_DM_ 555 4 3-14-07	

02.02.07 DSA SUBMITTAL DSA BACKCHECK

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STEINBERGARCHITECTS

project no: 06044 date: 03/15/07 drawn by: MA checked by: JC NONE 0 4 8 scale:

> MECHANICAL SYMBOLS, ABBREVIATIONS, NOTES AND INDEX

