HVAC LEGEND

SYMBOL	DESCRIPTION
(N)	NEW WORK
(E)	EXISTING WORK TO REMAIN
-X-X-X-X-X-X-X-X-	EXISTING WORK TO BE REMOVED
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CDWS	CONDENSER WATER SUPPLY
CDWR	CONDENSER WATER RETURN
HPS	HIGH PRESSURE STEAM
MPS	MEDIUM PRESSURE STEAM
LPS	LOW PRESSURE STEAM
HPC	HIGH PRESSURE CONDENSATE
MPC	MEDIUM PRESSURE CONDENSATE
LPC	LOW PRESSURE CONDENSATE
PC	PUMPED CONDENSATE
CR	CONDENSATE RETURN
RD	REFRIGERANT DISCHARGE
RS	REFRIGERANT SUCTION
BBD	BOILER BLOW DOWN
	DIRECTION OF SLOPE
	DIRECTION OF FLOW
SV	STEAM VENT PIPE
	BALL VALVE
	SOLENOID CONTROL VALVE
	RELIEF VALVE, P&T RELIEF VALVE
	BUTTERFLY VALVE
	MOTORIZED BUTTERFLY VALVE
	GATE VALVE
	ANGLE GATE VALVE
	GLOBE VALVE
	ANGLE GLOBE VALVE
	CHECK VALVE
A	PNEUMATIC CONTROL VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	NON-SLAM WAFER CHECK VALVE
	PRESSURE REDUCING VALVE (PRV)
	DIAPHRAM VALVE
	LOCK SHIELD VALVE
	NEEDLE VALVE
	QUICK OPENING VALVE
	QUICK CLOSING VALVE, FUSIBLE LINK
	SQUARE HEAD COCK
	STRAINER
	STRAINER WITH BLOW OFF
	STEAM TRAP
A	AIR LINE
S	AIR SEPARATOR
OFM-1	ORIFACE FLOW METER
VFM-1	VENTURE FLOW METER
PG	PRESSURE GAGE
PG	PRESSURE GAUGE WITH COCK AND SNUBBER
T	THERMOMETER
	PUMP
TT	TEST TEE
TT	TEST TAP (PETE'S PLUG)
MV	MANUAL AIR VENT
AAV	AUTOMATIC AIR VENT
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
PG	PIPE GUIDE
EJ	EXPANSION JOINT
FC	FLEXIBLE CONNECTOR
	UNION
	CAPPED OR PLUGGED TEE
	BLIND FLANGE, CAP
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	EXPANSION LOOP
	VALVE ON RISE
	PIPE UP
	PIPE DOWN
D R	PIPE DROP/PIPE RISE
	TOP CONNECTION – BRANCH LINE
	BOTTOM CONNECTION – BRANCH LINE
	PIPE ANCHOR
	TEE UP
	TEE DOWN
	PIPE SEISMIC BRACE
G LP/HP	GAS, LOW PRESSURE/HIGH PRESSURE
HB HB	HOSE BIBB
	GAS COCK
	CIRCUIT SETTER
℄	CENTER LINE
△	DELTA
UC	DOOR UNDERCUT

SYMBOL (DOUBLE LINE)	DESCRIPTION	SYMBOL (SINGLE LINE)
FC	FLEXIBLE CONNECTION	FC
	FLEXIBLE DUCT RUNOUT TO DIFFUSER	
12x6	DUCT SIZE (WIDTH X DEPTH)	12x6
	DUCT THROUGH BEAM PENETRATION	
R D	DUCT OFFSET (RISE OR DROP)	R D
VD	VOLUME DAMPER	VD
SPD	SPLITTER DAMPER	SD
ED	EXTRACTOR DAMPER	ED
FD FSD	FIRE, OR FIRE-SMOKE DAMPER	FD FSD
	SUPPLY DUCT UP	
	SUPPLY DUCT DOWN	
	EXHAUST DUCT UP	
	EXHAUST DUCT DOWN	
	RETURN DUCT UP	
	RETURN DUCT DOWN	
	CROSS SECTION OF SUPPLY DUCT	
	CROSS SECTION OF EXHAUST AIR DUCT	
	CROSS SECTION OF RETURN AIR DUCT	
	CROSS SECTION OF ROUND DUCT	
	DUCT ELBOW WITH TURNING VANES	
	DUCT ELBOW WITHOUT TURNING VANES	
12x6	ACOUSTICAL LINING DUCT DIMENSION IS ID	12x6
M	MOTORIZED DAMPER	
SIZE/TD CFM	TRANSFER DUCT (WITH LINER)	SIZE/TD CFM
8'-11" BOD	INDICATES 8'11" TO BOTTOM OF DUCT	8'-11"BOD
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING SUPPLY DIFFUSER (SEE SCHEDULE) 4-WAY THROW UNLESS INDICATED OTHERWISE.	NECK SIZE-TAG-CFM
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING EXHAUST REGISTER (SEE SCHEDULE)	NECK SIZE-TAG-CFM
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING RETURN REGISTER (SEE SCHEDULE)	NECK SIZE-TAG-CFM
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING RETURN GRILLE (SEE SCHEDULE)	NECK SIZE-TAG-CFM
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING RETURN GRILLE (SEE SCHEDULE)	NECK SIZE-TAG-CFM
NECK SIZE-TAG-CFM	ROUND OR SQUARE CEILING RETURN GRILLE (SEE SCHEDULE)	NECK SIZE-TAG-CFM
NECK SIZE-TAG-CFM	WALL SUPPLY REGISTER (SEE SCHEDULE)	NECK SIZE-TAG-CFM
NECK SIZE-TAG-CFM	WALL RETURN REGISTER (SEE SCHEDULE)	NECK SIZE-TAG-CFM
A	LINEAR SLOT DIFFUSER, "A" INDICATES SIZE	A
	SUPPLY AIR LIGHT TROFFER DIFFUSER (TOP CONNECTION, SIDE CONNECTION)	
RHT	RADIANT HEATER	
BHT	BASEBOARD HEATER	
CC	COOLING COIL	
HC	HEATING COIL	
	VARIABLE AIR VOLUME BOX	
	VARIABLE AIR VOLUME BOX W/REHEAT	
ST	SOUND TRAP	
SD	DUCT SMOKE DETECTOR	
AD/AP	ACCESS DOOR / ACCESS PANEL	
T	TEMPERATURE SENSING ELEMENT	
1 / M-1	DETAIL 1, DRAWING M-1	
A / M-1	SECTION A, DRAWING M-1	
HP / 1A	EQUIPMENT IDENTIFICATION HEAT PUMP UNIT #1/BUILDING IDENTIFICATION	
EHX / 1	RISER IDENTIFICATION EXHAUST #1	

ABBREVIATIONS

A	AIR
AAV	AUTOMATIC AIR VENT
AC	AIR CONDITIONING OR AC UNIT
AD	ACCESS DOOR
AF	AFTER FILTER
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MEASURING STATION
AG	AIR GAP
AHU	AIR HANDLING UNIT
AMP	AMPERE
AP	ACCESS PANEL
APPROX	APPROXIMATELY
ARCH	ARCHITECT
AS	AIR SEPARATOR
AUTO	AUTOMATIC
B	BOILER
BBD	BOILER BLOW DOWN
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BHT	BASEBOARD HEATER
BMCS	BUILDING MONITORING & CONTROL SYSTEM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BP	BACKFLOW PREVENTER
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BV	BALL VALVE OR BALANCING VALVE
BYV	BUTTERFLY VALVE
C	COMMON OR CONDUIT
CA	CONTROL AIR
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CBD	COUNTER-BALANCE BACKDRAFT DAMPER
CC	CONTROL CONTRACTOR
CEG	CEILING EXHAUST GRILLE
CER	CEILING EXHAUST REGISTER
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CH	CHILLER
CHV	CHECK VALVE
CL	CENTERLINE
CLG	CEILING
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CP	CONTROL PANEL OR CONDENSATE PUMP
CPF	CHEMICAL POT FEEDER
CR	CONDENSATE RETURN
CRR	CEILING RETURN REGISTER
CS	CIRCUIT SETTER
CSD	CEILING SUPPLY DIFFUSER
CTE	CONNECT TO EXISTING
CU FT	CUBIC FEET
CU IN	CUBIC INCH
CV	CONSTANT VOLUME OR CONTROL VALVE
CW	COLD WATER
D	DROP OR DRAIN
DBT	DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DEFL	DEFLECTION
DGP	DATA GATHERING PANEL
DIA	DIAMETER
DIFF	DIFFERENCE
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DPT	DEW POINT TEMPERATURE
DSD	DUCT SMOKE DETECTOR
DV	DIAPHRAGM VALVE
DWG	DRAWING(S)
DX	DIRECT EXPANSION
(E)	EXISTING
EA	EXHAUST AIR OR EACH
EAD	EXHAUST AIR DAMPER
EAT	ENTERING AIR TEMPERATURE
ECON	ECONOMIZER
ED	EXTRACTOR DAMPER
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EWBT	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXH	EXHAUST
EXPT	EXPANSION TANK
EXT	EXTERNAL
F	FAHRENHEIT OR FILTER
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FF	FINAL FILTER OR FINISHED FLOOR
FLR	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FSC	FAN SPEED CONTROL
FSD	FIRE/SMOKE DAMPER
FT	FOOT OR FEET
G	GAS
GA	GAUGE, GAGE
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GN	GENERAL NOTE
GPM	GALLONS PER MINUTE
GRD	GROUND
GV	GATE VALVE
GX	GENERAL EXHAUST
H	HEIGHT
HB	HOSE BIB
HC	HEATING COIL
HD	HEAD
HOR	HORIZONTAL
HP	HORSEPOWER OR HEAT PUMP
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HR	HOUR(S)
HS	HUMIDITY SENSOR
HV	HOSE VALVE
HVAC	HEATING, VENTILATING & AIR COND.
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	FREQUENCY (HERTZ)
ID	INSIDE DIAMETER
IN	INCH(ES)
JB	JUNCTION BOX
KW	KILOWATT
KWH	KILOWATT HOUR
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LDB	LEAVING DRY BULB TEMPERATURE
LF	LINEAR FEET
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LWBT	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
M	MOTOR
MA	MIXED AIR
MAD	MIXED AIR DAMPER
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MFR	MANUFACTURER
MIN	MINIMUM
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MV	MANUAL VENT
MVD	MOTORIZED VOLUME DAMPER
(N)	NEW
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO OR #	NUMBER OR NORMALLY OPEN
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFM	ORIFICE FLOW METER
OSA	OUTSIDE AIR
OV	OUTLET VELOCITY
P	PUMP OR PRESSURE OR POLE
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PF	PREFILTER
PFF	PLUG FOR FUTURE
PG	PIPE GUIDE OR PRESSURE GAUGE
PH	PHASE (ELECTRICAL)
PHC	PREHEAT COIL
PLBG	PLUMBING
POC	POINT OF CONNECTION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SENSOR
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	PSI GAUGE
PV	PLUG VALVE
QTY	QUANTITY
R	RISERS OR RELOCATE OR RISE
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RD	REFRIGERANT DISCHARGE OR ROOF DRAIN
REQ'D	REQUIRED
REV.	REVISE OR REVISION OR REVOLUTIONS
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RHT	RADIANT HEATER
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
S	SUPPLY OR SLOPE
SA	SHOCK ABSORBER
SAD	SEE ARCHITECTURAL DRAWINGS
SCFM	CFM, STANDARD CONDITIONS
SD	SMOKE DAMPER
SF	SUPPLY FAN
SHC	SQUARE HEAD COCK
SN	SHEET NOTE
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SQ IN	SQUARE INCH
ST	STRAINER OR SOUND TRAP
STD	SPLITTER DAMPER OR STANDARD
STRUCT	STRUCTURAL
SV	STEAM VENT
T	THERMOMETER OR THERMOSTAT
TCP	TEMPERATURE CONTROL PANEL
TD	TRANSFER DUCT
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TI	TENANT IMPROVEMENT
TRG	TRANSFER GRILLE
TS	TEMPERATURE SENSOR
TT	TEST TAP OR TEST TEE
TX	TOILET EXHAUST
TXV	THERMAL EXPANSION VALVE
(TYP)	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VENT OR VOLT OR VELOCITY
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VFM	VENTURI FLOW METER
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WASTE OR WIDTH OR WATTS
W/	WITH
W/O	WITHOUT
WBT	WET BULB TEMPERATURE
WEG	WALL EXHAUST GRILLE
WG	WATER GAUGE
WP	WORKING PRESSURE
WRR	WALL RETURN REGISTER
WSR	WALL SUPPLY REGISTER
WT	WEIGHT
XFMR	TRANSFORMER
Z	ZONE

MECHANICAL BASIS OF DESIGN

HVAC DESIGN CRITERIA

I. OUTDOOR DESIGN TEMPERATURE
   A. SUMMER: 102° DB / 69° WB (ASHRAE 0.5% RIVERSIDE)
   B. WINTER: 29° DB (ASHRAE MEDIAN OF EXTREMES RIVERSIDE)

II. INDOOR DESIGN TEMPERATURE
   A. COOLING: 74° F ± 2° F
   B. HEATING: 72° F ± 2° F
   C. HUMIDITY CONTROL – ALL AREAS: NONE
   D. ELECTRICAL ROOMS: 80° F

III. VENTILATION
   A. OFFICE 15 CFM/PERSON
   B. DINING 7.5 CFM/PERSON
   C. KITCHEN/CONCESSION 30 CFM/PERSON
   D. CONFERENCE ROOM 7.5 CFM/PERSON
   E. RETAIL 7.5 CFM/PERSON

IV. EXHAUST TO OUTDOORS
   A. TOILET ROOMS: 2.0 CFM/SQ.FT.
   B. JANITOR ROOMS: 1.5 CFM/SQ.FT.
   C. MAINTENANCE: 1.0 CFM/SQ.FT.

V. BUILDING ENVELOPE
   A. GLAZING:
      i. PPG SOLARBAN 70XL (3) BRONZE: U-FACTOR= 0.27 / SHGC= 0.26
   B. EXTERIOR WALL CONSTRUCTION:
      i. ADMIN. AND CONCESSION BLDGS: R-19 INSULATION WITH WOOD FRAMING
      ii. STADIUM BUILDING: R-19 INSULATION WITH METAL FRAMING
   C. ROOF:
      i. FLAT ROOF AREAS: R-30 INSULATION WITH WOOD FRAMING
      ii. PITCHED ROOF AREAS: R-30 INSULATION WITH WOOD FRAMING

VI. INTERNAL HEAT GAIN INFORMATION
   A. 100% OF LIGH
TING HEAT TO SPACE
   B. OFFICE:
      i. OCCUPANTS: 250 SENSIBLE/200 LATENT
      ii. RECEPTACLE LOAD: 1.5 WATT/SQ.FT.
   C. DINING:
      i. OCCUPANTS: 275 SENSIBLE/275 LATENT
      ii. RECEPTACLE LOAD: 0.5 WATT/SQ.FT.
   D. KITCHEN/CONCESSION:
      i. OCCUPANTS: 275 SENSIBLE/475 LATENT
      ii. RECEPTACLE LOAD: 5.0 WATT/SQ.FT.
   E. CONFERENCE ROOM:
      i. OCCUPANTS: 245 SENSIBLE/155 LATENT
      ii. RECEPTACLE LOAD: 1.0 WATT/SQ.FT.
   F. RETAIL:
      i. OCCUPANTS: 250 SENSIBLE/200 LATENT
      ii. RECEPTACLE LOAD: 1.0 WATT/SQ.FT.

VII. OCCUPANCY DENSITY
   A. OFFICE 100 SQ.FT./PERSON
   B. DINING 15 SQ.FT./PERSON
   C. KITCHEN/CONCESSION 200 SQ.FT./PERSON
   D. CONFERENCE ROOM 15 SQ.FT./PERSON
   E. RETAIL 30 SQ.FT./PERSON

VIII. DUCTWORK DESIGN CRITERIA
   A. BRANCH DUCT LOW PRESSURE SUPPLY, EXHAUST, RETURN: 0.08" WG LOSS/100 FT.
   B. MAIN DUCT LOW PRESSURE SUPPLY, EXHAUST, AND RETURN VELOCITY: 1500 FPM MAX.
   C. TRANSFER DUCTWORK VELOCITY: 500 FPM MAX.

GENERAL NOTES

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH AND BE CONSIDERED TO BE PART OF SEPARATE AND COMPLETE MECHANICAL SPECIFICATIONS.
2. SEE SHEET(S) M-6.1 THRU' M-6.6 FOR ALL HVAC EQUIPMENT ANCHORAGE AND CONTROL DETAILS.
3. ALL LOW VOLTAGE CONDUIT AND WIRING SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR AS INDICATED ON THE MECHANICAL DRAWINGS AND/OR SPECIFIED IN THE MECHANICAL SPECIFICATIONS.
   A. ALL LOW VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT.
      EXCEPTION: PLENUM WIRE MAY BE INSTALLED IN CONCEALED ACCESSIBLE AREAS ONLY AWAY FROM LINE VOLTAGE.
4. ALL LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT. ALL LINE VOLTAGE CONDUIT AND WIRING, INCLUDING FINAL CONNECTIONS, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS INDICATED ON THE ELECTRICAL DRAWINGS OR SPECIFICATIONS.
5. ALL MAGNETIC STARTERS FURNISHED BY MECHANICAL AND INSTALLED BY ELECTRICAL.

MECHANICAL DRAWING LIST

M-0.1 MECHANICAL LEAD SHEET
M-0.2 MECHANICAL EQUIPMENT SCHEDULES

M-2.1 STADIUM CLUB-MECHANICAL FLOOR PLAN
M-2.2 STADIUM CLUB-MECHANICAL ROOF PLAN

M-3.1 ADMINISTRATION BUILDING-MECHANICAL FLOOR PLAN
M-3.2 ADMINISTRATION BUILDING-MECHANICAL ROOF PLAN

M-4.1 CONCESSION BUILDING-MECHANICAL PLANS

M-5.1 MAINTENANCE BUILDING-MECHANICAL PLAN

M-6.1 MECHANICAL DETAILS
M-6.2 MECHANICAL DETAILS
M-6.3 MECHANICAL DETAILS
M-6.4 ENERGY MANAGEMENT SYSTEM CONTROL DIAGRAMS
M-6.5 ENERGY MANAGEMENT SYSTEM CONTROL DIAGRAMS
M-6.6 ENERGY MANAGEMENT SYSTEM CONTROL DIAGRAMS
M-6.7 ENERGY MANAGEMENT SYSTEM CONTROL DIAGRAMS

M-7.1 TITLE 24 FORMS

M I G

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SHEET TITLE
MECHANICAL LEAD SHEET

100% CONSTRUCTION DOCUMENT

DATE	REVISIONS

STAMP

REGISTERED PROFESSIONAL ENGINEER
RICHARD HOLZER, P.E.
No. 22941
Exp. 9-30-10
MECHANICAL
STATE OF CALIFORNIA

CHECKED BY	DATE
-	-

DATE 01-07-10	FILE NAME
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