

MECHANICAL SYMBOL LEGEND			
NOTES: 1. ALL SYMBOLS MAY NOT APPLY.			
	CODED PLAN NOTE		DETAIL # SHEET #
	EQUIPMENT DESIGNATION		REFERENCE TAG
	POINT OF CONNECTION		THERMOSTAT
	HUMIDISTAT		REMOTE SENSOR
	CO2 SENSOR		CO SENSOR
	RECTANGULAR SUPPLY DUCT RISER		DUCT MOUNTED SMOE DETECTOR
	RECTANGULAR RETURN DUCT RISER		ROUND SUPPLY DUCT RISER
	RECTANGULAR EXHAUST DUCT RISER		ROUND RETURN DUCT RISER
	90 DEGREE TURNING VANE		ROUND EXHAUST DUCT RISER
	RECTANGULAR DUCT TRANSITION		45 DEGREE TURNING VANE
	DIRECTION OF AIR FLOW		ROUND DUCT TRANSITION
	VERTICAL FIRE DAMPER		FIRE DAMPER
	VOLUME DAMPER WITH BLADES		VOLUME DAMPER
	SMOE DAMPER		FIRE SMOE DAMPER
	VERTICAL FIRE SMOE DAMPER		MOTORIZED DAMPER
	SUPPLY AIR DIFFUSER		RETURN AIR GRILLE / REGISTER
	EXHAUST AIR GRILLE / REGISTER		
SINGLE LINE DUCT OR			
	NE DUCT		EISTING DUCT TO BE REMOVED
	RECTANGULAR RADIUS ELBOW		RECTANGULAR ELBOW WITH TURNING VANES
	ROUND RADIUS ELBOW		90 DEGREE SUPPLY AIR ELBOW UP/DOWN
	90 DEGREE RETURN AIR ELBOW UP/DOWN		90 DEGREE EXHAUST AIR ELBOW UP/DOWN
	90 DEGREE ROUND DUCT UP/DOWN		SHAPE TRANSITION
	S/E TRANSITION		L/E LIBLE DUCT TAP
	TEE WITH VANES, TURNING VANES, AND SPLITTER DAMPER		ROUND DUCT TAP
	RECTANGULAR DUCT BEVELED TAP		
DOUBLE LINE DUCT OR			
	NE DUCT		EISTING DUCT TO BE REMOVED
	RECTANGULAR RADIUS ELBOW		RECTANGULAR ELBOW WITH TURNING VANES
	ROUND RADIUS ELBOW		90 DEGREE SUPPLY AIR ELBOW UP/DOWN
	90 DEGREE RETURN AIR ELBOW UP/DOWN		90 DEGREE EXHAUST AIR ELBOW UP/DOWN
	90 DEGREE ROUND DUCT UP/DOWN		SHAPE TRANSITION
	S/E TRANSITION		L/E LIBLE DUCT TAP
	TEE WITH VANES, TURNING VANES, AND SPLITTER DAMPER		ROUND DUCT TAP
	RECTANGULAR DUCT BEVELED TAP		

MECHANICAL NOTATIONS					
AC	AIR CONDITIONING	EG#	EXHAUST GRILLE	MIN	MINIMUM
ACCU	AIR COOLED CONDENSING UNIT	EL	ELEVATION	MISC	MISCELLANEOUS
ACU	AIR CONDITIONING UNIT	ELEC	ELECTRICAL	MPR	MEDIUM PRESSURE STEAM RETURN
A0	ABOVE FINISHED FLOOR	ELEV	ELEVATOR	MPS	MEDIUM PRESSURE STEAM SUPPLY
A1	ABOVE FINISHED GRADE	EM	EMERGENCY	NO / #	NUMBER
AHU	AIR HANDLING UNIT	ERU#	ENERGY RECOVERY UNIT	NTS	NOT TO SCALE
ALT	ALTERNATIVE	EUIP	EQUIPMENT	OA	OUTSIDE AIR
AMB	AMBIENT	ETR	ELECTRICAL TO REMAIN	OAU	OUTSIDE AIR UNIT
AP	ACCESS PANEL	EUH#	ELECTRIC UNIT HEATER	OC	ON CENTER
APPRO	APPROXIMATE	EIH	EXHAUST	OD	OUTSIDE DIAMETER
ARCH	ARCHITECTURAL	EISTE	ELECTRICAL	PC	PLUMBING CONTRACTOR
ARV	AIR RELIEF VALVE	EIP	ELECTRICAL PROOF	PSI	POUNDS PER SQUARE INCH
ATV	AIR TURNING VANE	ET	EXHAUST TERIOR	PVC	POLYVINYL CHLORIDE
AUTO	AUTOMATIC	URN#	URNACE	R	RADIUS
B#	BOILER	IC#	IN COIL UNIT	RA	RETURN AIR
BD	BAROMETRIC DAMPER	ID	INDICATOR	RG#	RETURN AIR GRILLE
BDD	BAC DRAIN DAMPER	EV	EXHAUST VENT	REID	RETURN AIR
BHP	BRAKE HORSEPOWER	LR	LOAD	RL	REGISTER LIFT
BOP	BOTTOM OF PIPE	PM	PER MINUTE	RM	ROOM
BLDG	BUILDING	RS	RESISTANCE DAMPER	RPM	REVOLUTIONS PER MINUTE
CAB	CABINET	RS#	RESISTANCE SYSTEM	S	SMOE DAMPER
CD#	CEILING DIFFUSER	SC	SMOKE SUPPRESSION CONTRACTOR	SA	SUPPLY AIR
CIA	COMBUSTION INTAKE AIR	ET	ELECTRICAL	SD#	SUPPLY AIR DIFFUSER
CIM	CUBIC FEET PER MINUTE	GA	GALVANIZED	SG#	SUPPLY AIR GRILLE
CHP	CHILLED WATER PUMP	GALV	GALVANIZED	SP	STATIC PRESSURE
CHR	CHILLED WATER RETURN	GAL	GALLON	SPECS	SPECIFICATIONS
CHS	CHILLED WATER SUPPLY	GC	GENERAL CONTRACTOR	STD	STANDARD
CL	CENTERLINE	GPM	GALLONS PER MINUTE	SUC	SITE UTILITY CONTRACTOR
CLG	CEILING	H	HEIGHT / HIGH	TEMP	TEMPERATURE
COL	COLUMN	HC	HVAC CONTRACTOR	TYP	TYPICAL
COND	CONDENSATE	HP	HORSEPOWER	UH#	UNIT HEATER
CPSR	COMPRESSOR	HPR	HIGH PRESSURE STEAM RETURN	UNO	UNLESS NOTED OTHERWISE
CT#	COOLING TOWER	HPS	HIGH PRESSURE STEAM SUPPLY	UV	UNIT VENTILATOR
CUH#	CABINET UNIT HEATER	HVAC	HEATING / VENTING / AIR CONDITIONING	V	VENT
C/P	CONDENSER WATER PUMP	HP	HOT WATER PUMP	VAV	VARIABLE AIR VOLUME
C/R	CONDENSER WATER RETURN	HR	HOT WATER RETURN	VD	VOLUME DAMPER
C/S	CONDENSER WATER SUPPLY	HS	HOT WATER SUPPLY	VEL	VELOCITY
D	DEPTH / DEEP	ID	INSIDE DIAMETER	V/D	VARIABLE VELOCITY DRIVE
DB	DRY BULB TEMPERATURE	INSUL	INSULATION / INSULATE	VII	VERTICAL FIELD
DCI	DOMESTIC COLD WATER	IL	INLET AIR	VTR	VENT THROUGH ROOF
DHI	DOMESTIC HOT WATER	L	LENGTH / LONG	VVB	VARIABLE VOLUME BOX
DIA / Ø	DIAMETER	LPR	LOW PRESSURE STEAM RETURN	VVI	VARIABLE VOLUME INLET PORT
DI#	DIFFUSER	LPS	LOW PRESSURE STEAM SUPPLY	VVR	VARIABLE VOLUME REHEAT
DISCH	DISCHARGE	LVR	LOUVER	W	WIDTH / WIDE
D/G	DRAINING	M	METER	W /	WITH
E	ELECTRICAL	MAI	MANUFACTURER	W / O	WITHOUT
EC	ELECTRICAL CONTRACTOR	MC	MECHANICAL CONTRACTOR	W / B	WATER BULB TEMPERATURE
EI#	EQUIPMENT	MECH	MECHANICAL	W / CC	WATER COOLED CHILLER
EI	EFFICIENCY	M/R	MANUFACTURER	W / H	WATER HEATER

MECHANICAL LINETYPE LEGEND	
	GENERAL DEMO
	GENERAL EISTING
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	COMPRESSED AIR
	CONDENSATE DRAIN
	CONDENSATE WATER RETURN
	CONDENSATE WATER SUPPLY
	HOT WATER RETURN
	HOT WATER SUPPLY
	LOW PRESSURE CONDENSATE
	LOW PRESSURE STEAM
	MEDIUM PRESSURE CONDENSATE
	MEDIUM PRESSURE STEAM
	NITROGEN
	NITROUS OXIDE
	OXYGEN
	RISER GRILLE LIFT
	RISER SUCTION
	VACUUM

- GENERAL NOTES:**
- REFER TO MECHANICAL SCHEDULES FOR DUCT RUN OUT SIZES.
 - ROUTE TOILET EXHAUST AND OUTSIDE AIR DUCTS THROUGH IN ATTIC SPACE. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL COORDINATE DUCT ROUTING THROUGH ATTIC SPACE TO AVOID STRUCTURAL, ARCHITECTURAL, ELECTRICAL CONFLICTS.
 - TOILET EXHAUSTS SHALL HAVE INTEGRAL BAC DRAIN TRAPS.
 - THE MECHANICAL CONTRACTOR SHALL COORDINATE THE SUPPLY DUCT DISCHARGE FLENUM AT EACH AIR HANDLER WITH STRUCTURE PRIOR TO INSTALLATION.
 - MAINTAIN A MINIMUM OF 3/16" RADIUS TO ALL OPERABLE DOOR AND WINDOW OPENINGS.
 - LINE ALL SHEETMETAL DUCTS TO A MINIMUM OF 10/16" OR AS INDICATED. DOWNSTREAM OF ALL AIR HANDLING UNITS, DUCT LINER SHALL BE 1" THICK, 3 LB/FT DENSITY MINIMUM VALUE. UPSTREAM AS REQUIRED BY APPLICABLE ENERGY CODES CERTIFIED TOUGHGUARD 2" OR EQUIVALENT BY MAUI OR JOHNSMANVILLE. THE LEADING EDGE OF THE DUCT LINER SHALL HAVE A SHEETMETAL NOSING.
 - MOUNT TOP OF THERMOSTATS A MINIMUM OF 4/16" A1 UNLESS NOTED OTHERWISE. PROVIDE CLEAR LOCATING GUARD ASSEMBLIES OR ALL PUBLIC AREA THERMOSTATS. COVER SHALL BE ADA COMPLIANT. COORDINATE THERMOSTAT LOCATIONS WITH OTHER TRADES. ALL THERMOSTAT LOCATIONS SHALL BE ADA COMPLIANT. ALL THERMOSTATS MUST HAVE AN ON/OFF BUTTON.
 - ALL RISERS SHALL BE COORDINATED AND PERMITTED WITH PRIOR APPROVAL FROM THE OWNER TO SUIT HIS OPERATING CONDITIONS.
 - ALL PIPE AND DUCT PENETRATIONS THROUGH ROOF OR THROUGH EXTERIOR WALLS SHALL BE INSTALLED TO RESTORE THE ASSEMBLY TO ITS ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY TREMCO, HMTI, 3M OR APPROVED EQUIVALENT.
 - PROVIDE ACCESS PANELS IN NON ACCESSIBLE CEILING AND IN ALL STRUCTURE TO ALLOW ACCESS FOR MAINTENANCE OF EQUIPMENT AND BALANCING OF SYSTEMS. ACCESS PANELS IN CEILING AND WALLS SHALL BE PROVIDED HERE SHOWN ON THE DRAWINGS OR NECESSARY TO ACCESS DAMPERS, VALVES, ETC. COORDINATE EXACT LOCATION OR ALL ACCESS PANELS WITH THE ARCHITECT DURING THE SHOP DRAWING PROCESS.
 - ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH A SEMIRIGID PLASTIC LAMINATE NAMEPLATE WITH 2" HIGH WHITE LETTERS ON A BLACK BACKGROUND SECURELY ATTACHED TO THE EQUIPMENT. THE NAMEPLATE SHALL SHOW THE EQUIPMENT TAG USED ON THESE DRAWINGS. ON RESIDENTIAL PROJECTS, THE NAMEPLATE ON THE OUTDOOR EQUIPMENT SHALL INDICATE THE DUCTING UNIT NUMBER IT SERVES AS WELL AS THE EQUIPMENT ID TAG.
 - LOW VOLTAGE SIDE: ALL RISERS SHALL HAVE RETURN AIR DUCTS OR THE ULTIMATE OF THE GRILLES FACE.
 - ROUTE ALL CONDENSATE FROM UNITS IN HVAC ROOMS TO BE LOCATED IN ROOM REFERENCED IN PLUMBING OR ELECTRICAL LOCATION.
 - EXHAUST DAMPERS IN ITCHEN AREA SHALL BE INSTALLED AT THE PENETRATION OF THE RATED STRUCTURE. REFER TO ARCHITECTURAL OR ELECTRICAL FOR THE RATED STRUCTURE.
 - CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL AIR TERMINALS WITH ELECTRICAL LIGHTING PLAN. COORDINATE EXACT LOCATIONS OF ALL AIR TERMINALS WITH ARCHITECT PRIOR TO CONSTRUCTION.

MECHANICAL SHEET INDEX	
SHEET NO.	SHEET DESCRIPTION
M0	MECHANICAL COVER SHEET
M1.1	PARTIAL FIRST FLOOR MECH PLAN
M1.2	PARTIAL FIRST FLOOR MECH PLAN
M1.3	PARTIAL FIRST FLOOR MECH PLAN
M1.4	PARTIAL FIRST FLOOR MECH PLAN
M1.1	PARTIAL SECOND FLOOR MECH PLAN
M1.2	PARTIAL SECOND FLOOR MECH PLAN
M2.1	PARTIAL ROOF PLAN
M2.2	PARTIAL ROOF PLAN
M2.3	PARTIAL ROOF PLAN
M2.4	PARTIAL ROOF PLAN
M1	TYPICAL UNIT PLANS
M2	TYPICAL UNIT PLANS
M3	MECHANICAL DETAILS
M4	MECHANICAL DETAILS
M5	MECHANICAL SCHEDULES

CONTRACTOR NOTE

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD AND TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.

BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE, LOCAL AND FEDERAL CODES. WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS, THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REGULATIONS HAS BEEN MADE. LATER CLAIMS OR LABOR EQUIPMENT OR MATERIALS REQUIRED OR OTHERWISE ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION AND CODES/REGULATIONS REVIEW BEEN MADE, WILL NOT BE ALLOWED.

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 SHEET TITLE: MECHANICAL COVER SHEET
 SHEET: MO.1