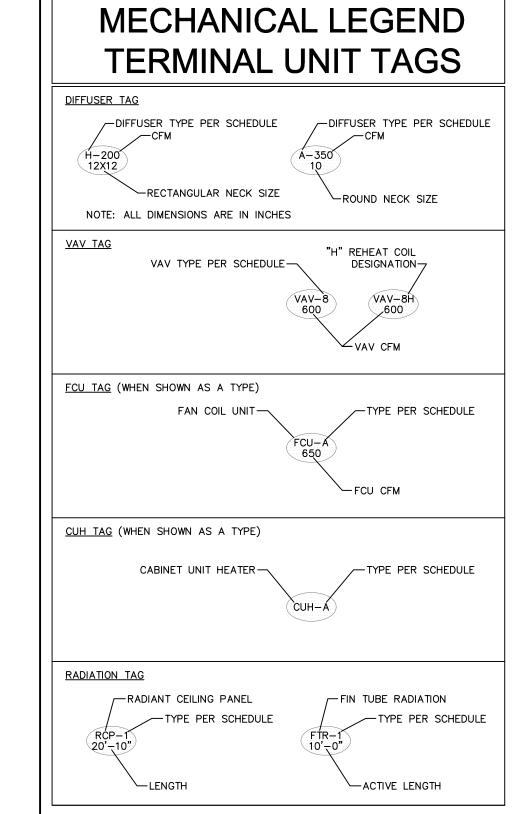
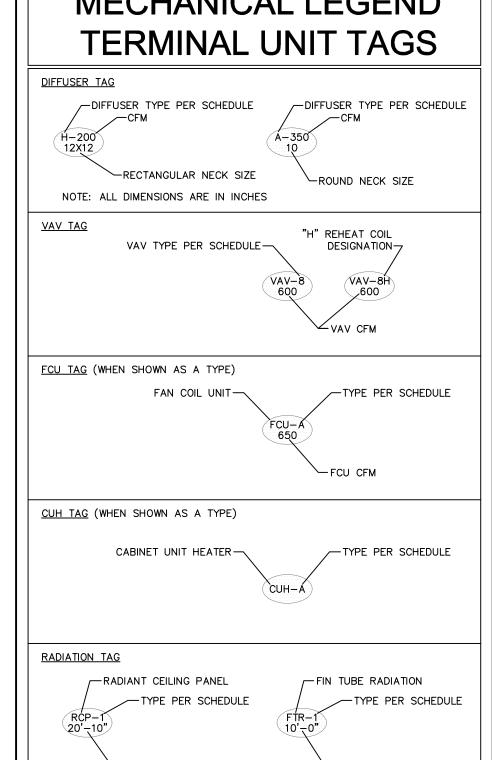
MECHANICAL LEGEND **CONTROL SYSTEMS** SYMBOL DESCRIPTION ANALOG INPUT ANALOG OUTPUT BINARY INPUT BINARY OUTPUT SWITCH HUMIDITY SENSOR OR SWITCH FLOW SENSOR OR SWITCH PRESSURE SENSOR OR SWITCH DIFFERENTIAL PRESSURE SENSOR OR SWITCH DUCT SMOKE DETECTOR DUCT HEAT DETECTOR LOW TEMPERATURE THERMOSTAT (FREEZE) LEVEL SENSOR OR SWITCH CO2 CO2 SENSOR ELECTRICAL CURRENT SWITCH/SENSOR PNEUMATIC THERMOSTAT ELECTRIC THERMOSTAT WALL TEMP SENSOR DUCT/PIPE TEMP SENSOR WALL TEMP SENSOR W/ USER ADJUSTMENT (CONTROL DIAGRAM) WALL TEMP SENSOR W/ UNOCC. OVERRIDE (CONTROL DIAGRAM) WALL TEMP SENSOR W/ USER ADJ. & UNOCC. OVERRIDE (CONTROL DIAGRAM) RECESSED TAMPER-RESISTANT TEMPERATURE SENSOR (CONTROL DIAGRAM) AUTOMATIC CONTROL VALVE (TWO WAY GLOBE OR BALL) AUTOMATIC CONTROL VALVE (THREE WAY GLOBE OR BALL) MOTORIZED BUTTERFLY VALVE THREE WAY MOTORIZED BUTTERFLY VALVE SUPPLY FAN OR RETURN FAN COOLING COIL HEATING COIL ACD OPPOSED BLADE DAMPER (CONTROL DIAGRAM) PARALLEL BLADE DAMPER (CONTROL DIAGRAM) GRAVITY DAMPER (CONTROL DIAGRAM) STARTER (CONTROL DIAGRAM) VARIABLE FREQUENCY DRIVE (CONTROL DIAGRAM) FINNED TUBE RADIATION (CONTROL DIAGRAM) RADIANT CEILING PANEL (CONTROL DIAGRAM)

MECHANICAL LEGEND AIR SYSTEMS		
SYMBOL	DESCRIPTION	
	SUPPLY DUCT UP	
- - - -	SUPPLY DUCT DOWN	
	RETURN OR EXHAUST DUCT UP	
	RETURN OR EXHAUST DUCT DN.	
	EXISTING DUCT (SINGLE LINE)	
У Х	EXISTING DUCT (DOUBLE LINE)	
	NEW DUCT (SINGLE LINE)	
УХ	NEW DUCT (DOUBLE LINE)	
=====	ACOUSTICALLY LINED DUCT (SINGLE LINE)	
<u> </u>	ACOUSTICALLY LINED DUCT (DOUBLE LINE)	
++++++++++	DUCT TO BE REMOVED (SINGLE LINE)	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	DUCT TO BE REMOVED (DOUBLE LINE)	
	FLUSH CAP, SINGLE LINE	
	SUPPLY DIFFUSER	
	RETURN/EXHAUST GRILLE	
	LINEAR DIFFUSER	
	SUPPLY AIR FLOW	
√ -	RETURN/EXHAUST AIR FLOW	
-√ LD	LOUVER DOOR (SIZE AS NOTED)	
-√- _{UD}	UNDER CUT DOOR	
	REHEAT COIL	
	VARIABLE AIR VOLUME BOX	
	VARIABLE AIR VOLUME W/ REHEAT COIL	
	VARIABLE AIR VOLUME W/SOUND ATTENUATOR	
	VARIABLE AIR VOLUME W/ATTEN. & REHEAT	
	LABORATORY AIR FLOW VALVE	
	LABORATORY AIR FLOW VALVE W/ REHEAT COIL	
VD	VOLUME DAMPER (PLAN VIEW)	
F D	FIRE DAMPER (PLAN VIEW)	
GD	GRAVITY DAMPER (PLAN VIEW)	
SD SD	SMOKE DAMPER (PLAN VIEW)	
——☐FSD	FIRE SMOKE DAMPER (PLAN VIEW)	
——— ACD	AUTOMATIC CONTROL DAMPER (PLAN VIEW)	
<u> </u>	HUMIDIFIER	

MECHANICAL LEGEND PIPING SYSTEMS		
SYMBOL	DESCRIPTION	
	BALL VALVE	
	BUTTERFLY VALVE	
<u>⊗</u>	BALANCE VALVE	
2	CHECK VALVE	
	STRAINER	
<u> </u>	MULTI-PURPOSE VALVE	
\bowtie	GATE VALVE	
\triangle	OUTSIDE SCREW & YOKE GATE VALVE (OS&Y)	
	PUMP	
	THERMOMETER	
(G++++++++5)	FINNED TUBE RADIATION	
P	PRESSURE GAUGE	
区	PRESSURE RELIEF VALVE	
Å	PRESSURE REDUCING VALVE	
- -	FLOAT & THERMOSTATIC TRAP ASSEMBLY	
ЮН	INVERTED BUCKET TRAP ASSEMBLY	
Ψ	AIR VENT (MANUAL OR AUTO.)	
	BRANCH OFF TOP OF MAIN	
	BRANCH OFF BOTTOM OF MAIN	
<u> </u>	ELBOW, TURNED DOWN	
<u> </u>	ELBOW, TURNED UP	
************	PIPING TO BE REMOVED	
	DOMESTIC WATER MAKE UP	
——HWS——	HOT WATER SUPPLY	
——HWR——	HOT WATER RETURN	
HGS—	HOT GLYCOL SUPPLY	
——HGR——	HOT GLYCOL RETURN	
	RADIANT HOT WATER SUPPLY	
— — RHWR— —	RADIANT HOT WATER RETURN	
— CHWS —	CHILLED WATER SUPPLY	
	CHILLED WATER RETURN	
—— CHWR ——		
— CHGS —	CHILLED GLYCOL SUPPLY	
— — CHGR — —	CHILLED GLYCOL RETURN	
— DTWS —	DUAL TEMPERATURE WATER SUPPLY	
— — DTWR — —	DUAL TEMPERATURE WATER RETURN	
— DTGS —	DUAL TEMPERATURE GLYCOL SUPPLY	
— — DTGR — —	DUAL TEMPERATURE GLYCOL RETURN	
	CONDENSER WATER SUPPLY	
—— CWR——	CONDENSER WATER RETURN	
——RL ——	REFRIGERANT LIQUID	
—— RG ——	REFRIGERANT HOT GAS	
——RS ——	REFRIGERANT SUCTION	
c	CONDENSATE DRAIN LINE	
——HRS——	HEAT RECOVERY SUPPLY	
— — HRR — —	HEAT RECOVERY RETURN	
——HPS——	HIGH PRESSURE STEAM	
— —нрс — —	HIGH PRESSURE CONDENSATE	
——MPS ——	MEDIUM PRESSURE STEAM	
— —MPC— —	MEDIUM PRESSURE CONDENSATE	
LPS —	LOW PRESSURE STEAM	
— LPC — —	LOW PRESSURE CONDENSATE	
—— CPD——	CONDENSATE PUMP DISCHARGE	
Fos —	FUEL OIL SUPPLY	
— FOR — —	FUEL OIL SUPPLY FUEL OIL RETURN	
A	CAS LINE	
	GAS LINE	
EXP	EXPANSION COMPENSATOR	
	EXPANSION GUIDE	
×	PIPE ANCHOR	
I		



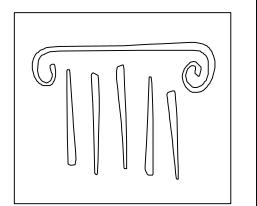


LEGEND NOTE

THESE ARE THE GENERAL LEGENDS OF SYMBOLS AND ABBREVIATIONS, AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS DEFINED ARE NECESSARILY USED ON THIS PROJECT.

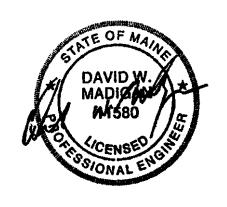
MECHANICAL LEGEND **ABBREVIATIONS &** GENERAL SYMBOLS

GENERAL SYMBOLS	
SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
CA	COMBUSTION AIR
CUH	CABINET UNIT HEATER
EA	EXHAUST AIR
EF	EXHAUST FAN
FCU	FAN COIL UNIT
FTR	FINNED TUBE RADIATION
HRU	HEAT RECOVERY UNIT
HWC	HOT WATER COIL
MAU	MAKE-UP AIR UNIT
OA	OUTSIDE AIR
RA	RETURN AIR
RHC	REHEAT COIL
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SATT	SOUND ATTENUATOR
UH	UNIT HEATER
VFD	VARIABLE FREQUENCY DRIVE
•	DEMOLITION WORK: POINT OF REMOVAL NEW WORK: POINT OF ATTACHMENT
	1



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VANZELM HEYWOOD & SHADFORD, INC

BECKER

structural engineers, inc.

PROJECT NO.: 2007120.00

Titan Mechanical, Inc
Design Build Engineering - Mechanical Contractin

DATE DESCRIPTION

PERMIT SET

Date Issued 01/24/08 Project Number Ø6506

SHEET NAME

MECHANICAL LEGENDS

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