ABBREVIATION	LONG FORM
ABV	ABOVE
AC OR ACU	AIR-CONDITIONING UNIT
AHAP	AS HIGH AS POSSIBLE
AHU	AIR-HANDLING UNIT
BLW	BELOW
С	CHILLER
CD	CONDENSATE
CF	CABINET FAN
CFM CH	CUBIC FEET PER MINUTE CABINET HEATER
СНР	CHILLED WATER PUMP
CLNG OR CLG	CEILING
CONC	CONCRETE
CP OR CWP	CONDENSER WATER PUMP
CS CP	CONDENSER WATER SUPPLY
CR CRAC OR CACU	CONDENSER WATER RETURN COMPUTER ROOM AIR-CONDITIONING UNIT
CREF	CHILLER ROOM EXHAUST FAN
CRU	CONDENSATE (STEAM) RETURN UNIT
СТ	COOLING TOWER CELL
CTU	CONDENSATE (STEAM) TRANSFER UNIT
CU	
DV	CONSTANT VOLUME TERMINAL BOX
DEF	DEPTH DISHWASER EXHAUST FAN
DMPR	DAMPER
DN	DOWN
EA	EACH
EBH	ELECTRIC BASEBOARD HEATER
EDH	ELECTRIC DUCT-MOUNTED HEATER
EF	EXHAUST FAN EXHAUST GRILLE
ER	EXHAUST REGISTER
EUH	ELECTRIC UNIT HEATER
EXH	EXHAUST
	FILTER
FD	FIRE DAMPER
FCU	FAN-COIL UNIT
FF FFCH	FINAL FILTER FORCED-FLOW CABINET HEATER
FFU	FAN FILTER UNIT
FP	FAN POWERED TERMINAL BOX
GPM	GALLONS PER MINUTE
HC	HEATING COIL HUMIDIFIER
HWP OR HP	HEATING WATER PUMP
НХ	HEAT EXCHANGER
KEF	KITCHEN (GREASE HOOD) EXHAUST FAN
KW	KILOWATTS
LD	
MOT	MOTORIZED
MTD	MOUNTED MAKE-UP AIR FAN
MUAHU	MAKE-UP AIR-HANDLING UNIT
OA	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OPG OR OPNG	OPENING
PF	PRE-FILTER
PLNM	
RA	RETURN AIR RETURN AIR FAN
RAG OR RG	RETURN AIR GRILLE
RAR OR RR	RETURN AIR REGISTER
RAS	RETURN AIR SILENCER
RE:	IN REFERENCE TO
RTU	ROOFTOP UNIT
SA OD SE	
SAF OR SF	SUPPLY AIR FAN SUPPLY AIR GRILLE
SAG OR SG	SUPPLY AIR GRILLE SUPPLY AIR REGISTER
SAS	SUPPLY AIR SILENCER
SCHP	SECONDARY CHILLED WATER PUMP
SD	SMOKE DAMPER OR DETECTOR
TDEF	TRUCK DOCK EXHAUST FAN
TEF	TOILET EXHAUST FAN
TRANS	
ТҮР	
UNO	UNIT HEATER UNLESS NOTED OTHERWISE
VF	VENTILATION FAN
VFD	VARIABLE FREQUENCY DRIVE
VV	VARIABLE VOLUME TERMINAL BOX
W/	WITH

	DUCTWORK LEGENI TO SPECIFICATIONS SECTIONS 15815 AND 15820 FOR ADDITIONAL INFO	
SINGLE	DESCRIPTION	DOUBLE
С—	ROUND ELBOW DOWN	
-0	ROUND ELBOW UP	
_}~ >	OFFSET TO CHANGE ELEVATION (AT 30° WHEN POSSIBLE. ARROW SLOPES DN, U.N.O.)	
	ROUND RADIUS ELBOW	
	90° STRAIGHT TEE	
	90° CONICAL TEE	
	45° LATERAL TAP	
	45° LATERAL CONICAL TEE	
+	SIZE OR SHAPE TRANSITION	
— www	ROUND FLEXIBLE DUCT	E_IIIIIB
	RECTANGULAR ELBOW DOWN	
—	RECTANGULAR ELBOW UP	
] ┍╾ <u>┣</u>	OFFSET TO CHANGE ELEVATION (AT 30° WHERE POSSIBLE. ARROW SLOPES DN., U.N.O.)	
\mathcal{A}	RECTANGULAR RADIUS ELBOW	
	RECTANGULAR ELBOW WITH TURNING VANES	
	SPLIT BRANCH TAKE-OFF WITH SQUARE ELBOW & SPLITTER DAMPER	
	SPLIT BRANCH TAKE-OFF WITH RADIUS ELBOW & SPLITTER DAMPER	
	SPLIT BRANCH TAKE-OFF TEE WITH STATIONARY SPLITTER DAMPER	
	BRANCH TAKE-OFF WITH 45° LEAD IN TAP	
	INSULATED/LINED DUCTWORK (U.N.O.)	
- ØI	SQUARE FACED CEILING DIFFUSER 4-WAY DIRECTIONAL THROW (U.N.O.)	
-@I	ROUND FACED CEILING DIFFUSER	
	CEILING RETURN OR EXHAUST AIR GRILLE OR REGISTER	
÷	SIDEALL SUPPLY GRILLE OR REGISTER	
X	SUPPLY DUCT RISER	X
	RETURN, EXHAUST OR OUTSIDE AIR DUCT RISER	
ł	MANUAL BALANCING DAMPER	
+•	AUTOMATIC (MOTOR-OPERATED) DAMPER	
- † •	FIRE DAMPER	
	GRAVITY BACKDRAFT DAMPER	
+	COMBINATION FIRE AND SMOKE DAMPER WITH SMOKE DETECTOR	
+0	SMOKE DAMPER (AUTOMATIC) WITH SMOKE DETECTOR	
S -	DUCT MOUNTED SMOKE DETECTOR	
N	IOT ALL SYMBOLS ON THIS LIST ARE NECESSARILY USED ON THIS PRO	JECT

STANDARD	
MECHANICAL SYMBOLS	
SYMBOL DESCRIPTION	

GATE VALVE BALL VALVE BALL VALVE GLOBE VALVE BUTTERFLY VALVE PLUG VALVE ANGLE VALVE PLUG VALVE AUGAE VALVE AUGAE VALVE AUGAE VALVE GAUE COCK PRESSURE RELE VALVE GAUE COCK PRESSURE RELE VALVE GAUE COCK PRESSURE GAUGE WITH GAUGE COCK PRESSURE GAUGE WITH GAUGE COCK PRESSURE SUSOR PRESSURE SUSOR PRESSURE SUSOR PRESSURE SUSON PRESSURE SUSOR PRESSURE SUSON PRESSURE SUSON <	STIVIDUL	DESCRIPTION	
CLOBE VALVE BUTTERFLY VALVE PILG VALVE ANGLE VALVE ANGUE VALVE ANGUE VALVE ANGUE VALVE ANGUE VALVE PRESSURE REDUCING VALVE PRESSURE REDUCING VALVE PRESSURE REDUCING VALVE PRESSURE REDUCING VALVE PRESSURE GAUGE WITH GAUGE COCK THERMOMETER Y THERMOMETER Y THERMOMETER PRESSURE SENSOR D TEST PLUG PRESSURE SENSOR D DIFFERENTIAL PRESSURE SEWTCH Immerssion THERMOSTAT ANGUNALIR VENT PIPE SLEEVE THRU WALL OR FLOOR PIPE SLEEVE THRU WALL OR FLOOR EXANGHOR PIPE SLEEVE THRU WALL O	→→	GATE VALVE	
BUTTERRLY VALVE PLUG VALVE ANGLE VALVE ANGLE VALVE ALTOMATIC CONTROL VALVE (STRAIGHT THROUGH) AUTOMATIC CONTROL VALVE (STRAIGHT THROUGH) AUTOMATIC CONTROL VALVE (STRAIGHT THROUGH) AUTOMATIC CONTROL VALVE (STRAIGHT THROUGH) SOLENOID VALVE PRESSURE REDUCING VALVE PRESSURE GAUGE WITH GAUGE COCK Immersion THERMOSTAT PRESSURE SENSOR	•	BALL VALVE	
PLUG VALVE ▲ ANGLE VALVE ▲ ANGLE VALVE ▲ ANGLE VALVE ▲ ANGLE VALVE ▲ AUTOMATIC CONTROL VALVE (STRAIGHT THROUGH) ▲ AUGMETER ▲ PRESSURE RELIEF VALVE ▲ FERNOMETER ▲ TEST PLUG ④ TEMPERATURE SENSOR ④ TEMPERATURE SENSOR ④ TEMPERATURE SENSOR ④ TEMPERATURE SENSOR ● PRESSURE SENSOR ● PRESSURE SENSOR ● TEMPERSURE SENSOR ● TEMPERSURE SENSOR ● PRESSURE SENSOR <th>_×</th> <th>GLOBE VALVE</th> <th></th>	_×	GLOBE VALVE	
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PRESSURE GAUGE WITH GAUGE COCK I THERMOMETER Y THERMOMETER WELL Image: Compensation of the sensor PRESSURE SENSOR PRESSURE SENSOR PRESSURE SENSOR Image: Compensation of the sensor Image: Compenser mater setupply C		PRESSURE RELIEF VALVE	
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Y THERMOMETER WELL Y TEST PLUG Image: Constraint of the second	<u> </u>	PRESSURE GAUGE WITH GAUGE COCK	
TEST PLUG ● FLOW METER ● TEMPERATURE SENSOR ● PRESSURE SENSOR ● DIFFERENTIAL PRESSURE SWITCH ● IMMERSION THERMOSTAT ● MANUAL AIR VENT ● AUTOMATIC AIR VENT ● HILORIFICE ● PIPE SLEEVE THRU WALL OR FLOOR ● PIPE SUBLE PIPE JOINT ● PIPE GUIDE ● ANCHOR ● STRAINER (V-TYPE) ● UNION ● CONCENTRIC REDUCER ● DIRECTION OF FLOW ● DIRECTION OF SLOPE ● THERMOSTAT ● HUMIDISTAT ● HUMIDISTAT ● CONDENSER WATER RETURN	<u> </u>	THERMOMETER	
Image: Flow Meter Image: Flow Meter Image: Flow Meter Image: Flow Sensor Image: Flow Sensor Flow Se	<u> Y </u>	THERMOMETER WELL	
● TEMPERATURE SENSOR ● PRESSURE SENSOR ● DIFFERENTIAL PRESSURE SWITCH ● IMMERSION THERMOSTAT ● MANUAL AIR VENT ● AUTOMATIC AIR VENT ● FLOW SWITCH ● PIPE SLEEVE THRU WALL OR FLOOR ● PIPE GUIDE ● PIPE GUIDE ● PIPE GUIDE ● STRAINER (Y-TYPE) ● UNION ● CONCENTRIC REDUCER ● UNION ● CONCENTRIC REDUCER ● DIRECTION OF SLOPE ● HUMIDISTAT ● HUMIDISTAT ● HUMIDISTAT ● CONDENSER WATER RETURN	<u> </u>	TEST PLUG	
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STRAINER (BASKET TYPE) Image: Concentral capacity CONCENTRIC REDUCER ECCENTRIC REDUCER DIRECTION OF FLOW DIRECTION OF SLOPE Image: Concentral capacity HUMIDISTAT FAN SPEED CONTROLLER Concentral capacity Concentral cap			
Image: Concentral creducer CONCENTRIC REDUCER ECCENTRIC REDUCER DIRECTION OF FLOW DIRECTION OF SLOPE Image: Concentral creducer			
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DIRECTION OF SLOPE Image: Constant Image: Const		ECCENTRIC REDUCER	
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HUMIDISTAT FSC FAN SPEED CONTROLLER CS CONDENSER WATER SUPPLY CR CONDENSER WATER RETURN		DIRECTION OF SLOPE	
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CS — CONDENSER WATER SUPPLY CR — CONDENSER WATER RETURN	Θ	HUMIDISTAT	
	FSC	FAN SPEED CONTROLLER	
CR — CONDENSER WATER RETURN D — CONDENSATE DRAIN	— CS —		ں ا
D CONDENSATE DRAIN	— CR —		PIPIN
	D	CONDENSATE DRAIN	_

OTHER SYMBOLS
DESCRIPTION
INDICATES CONNECTION TO EXISTING DUCT OR PIPE
GENERAL EQUIPMEN
DESIGNATION KEY:
AHU-R-2 - SCHEDULE DESIGNATION
NUMBER.
LEVEL OR BUILDING:

NOT ALL SYMBOLS ON THIS LIST ARE NECESSARILY USED ON THIS PROJECT

GENERAL MECHANICAL NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR RATED WALLS AND PARTITIONS.VERIFY FIRE AND/OR SMOKE DAMPER LOCATIONS AT DUCTS OR OPENINGS PENETRATING THESE

- WALLS.
 2. REFER TO ARCHITECTURAL PLANS FOR ROOM NAMES AND NUMBERS.
 3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING
- VERIFY LOCATIONS OF THERMOSTATS WITH ARCHITECT AND OWNER PRIOR TO
- INSTALLATION.
- VERIFY LOCATIONS OF EXPOSED DUCTS WITH ARCHITECT PRIOR TO INSTALLATION.
 DUCT DIMENSIONS INDICATED ON PLANS ARE FREE AREA DIMENSIONS.
- SUPPLY AND RETURN AIR DUCT SHALL BE INTERNALLY LINED WHERE SPECIFIED.
 ALL LOUVER SIZES ON MECHANICAL PLANS ARE GIVEN IN FREE AREA REQUIRED. REFER TO
- ARCHITECTURAL PLANS FOR DIMENSIONS AND LOCATIONS.
 9. COORDINATE TERMINAL BOX AND BALANCING DAMPER LOCATIONS CAREFULLY TO INSURE PROPER AND ADEQUATE ACCESS TO FILTERS, MOTORS, CONTROL VALVES, CONTROL PANLES, ETC. PROVIDE ACCESS PANELS AS SPECIFIED WHERE REQUIRED TO ASSURE THIS ACCESS.
- 10. CEILING PLENUM SPACE IS VERY TIGHT. WHERE REQUIRED, DUCTS OR PIPES SHALL BE ROUTED BETWEEN LIGHT FIXTURES AND UP AND OVER OTHER DUCTS OR PIPES USING THE SPACES BETWEEN STRUCTURAL JOISTS OR BEAMS WHERE APPLICABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR CAREFULLY COORDINATING ALL TRADES. EXISTING UNKNOWN CONDITIONS MAY AFFECT EXACT DUCT OR PIPE ROUTING, OR EXISTING CONDITIONS MAY NEED TO BE MODIFIED TO ACCOMMODATE DUCTS AND PIPES.

