

HVAC LEGEND	
SYMBOL (DOUBLE LINE)	DESCRIPTION
	NEW WORK
	EXISTING WORK
	DEMO WORK
	FLEXIBLE DUCT RUNOUT TO DIFFUSER
	DUCT SIZE (WIDTH X DEPTH)
	VOLUME DAMPER
	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
	ACOUSTICAL LINING DUCT DIMENSION IS ID
	TRANSFER DUCT (WITH LINER)
	ROUND OR SQUARE CEILING SUPPLY DIFFUSER (SEE SCHEDULE 4-WAY THROW UNLESS INDICATED OTHERWISE)
	ROUND OR SQUARE CEILING EXHAUST REGISTER (SEE SCHEDULE)
	ROUND OR SQUARE CEILING RETURN REGISTER (SEE SCHEDULE)
	ROUND OR SQUARE CEILING RETURN GRILLE (SEE SCHEDULE)
	ROUND OR SQUARE CEILING RETURN GRILLE (SEE SCHEDULE)
	ROUND OR SQUARE CEILING RETURN GRILLE (SEE SCHEDULE)
	WALL SUPPLY/RETURN REGISTER (SEE SCHEDULE)
	SOFFIT SUPPLY DIFFUSER (SEE DETAIL 2 ON M12.01)
	COMBINATION FIRE/SMOKE DAMPER
	OCCUPANCY SENSOR TIED TO BMS SYSTEM
	DETAIL 1, DRAWING M-1
	EQUIPMENT IDENTIFICATION HEAT PUMP UNIT #1
	COLD WATER
	HOT WATER (120°F)
	HOT WATER CIRC (120°F)
	BALL VALVE
	WATER FLOW METER
	METER TAG

ABBREVIATIONS			
ARCH	ARCHITECT	KW	KILOWATT
BHP	BRAKE HORSEPOWER	(L)	ACOUSTICALLY LINED
BTU	BRITISH THERMAL UNIT	MBH	THOUSAND BTU PER HOUR
BTUH	BTU PER HOUR	MD	MOTORIZED DAMPER
BV	BALL VALVE OR BALANCING VALVE	MECH	MECHANICAL
BYV	BUTTERFLY VALVE	MFR	MANUFACTURER
		MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	(N)	NEW
CFS	CUBIC FEET PER SECOND	NTS	NOT TO SCALE
CL	CENTERLINE		
CLG	CEILING	OA	OUTSIDE AIR
CO	CLEANOUT	OAD	OUTSIDE AIR DAMPER
COL	COLUMN	OAT	OUTSIDE AIR TEMPERATURE
CONC	CONCRETE	OB	OPPOSED BLADE DAMPER
COND	CONDENSATE	OD	OUTSIDE DIAMETER
CONN	CONNECTION	OSA	OUTSIDE AIR
CP	CONDENSATE PUMP	OV	OUTLET VELOCITY
CR	CONDENSATE RETURN		
CS	CIRCUIT SETTER	P	PUMP OR PRESSURE OR POLE
CTE	CONNECT TO EXISTING	PC	PUMPED CONDENSATE
CU FT	CUBIC FEET	PD	PRESSURE DROP
CU IN	CUBIC INCH	PF	PREFILTER
CW	COLD WATER	PL	PLUMBING
		PLBG	PLUMBING
D	DROP OR DRAIN	PCC	POINT OF CONNECTION
DBT	DRY BULB TEMPERATURE	PRV	PRESSURE REDUCING VALVE
DDC	DIRECT DIGITAL CONTROL	PS	PRESSURE SENSOR
DEFL	DEFLECTION	PSI	POUNDS PER SQUARE INCH
DGP	DATA GATHERING PANEL	PSIG	PSI GAUGE
DIA	DIAMETER	QTY	QUANTITY
DIF	DIFFERENCE		
DN	DOWN	RA	RETURN AIR
DP	DIFFERENTIAL PRESSURE	RAD	RETURN AIR DAMPER
DPT	DEW POINT TEMPERATURE	REV.	REVISE OR REVISED
DSD	DUCT SMOKE DETECTOR		
DV	DIAPHRAGM VALVE	RF	RETURN FAN
DWG	DRAWING(S)	RH	RELATIVE HUMIDITY
DX	DIRECT EXPANSION	RM	ROOM
		RPM	REVOLUTIONS PER MINUTE
(E)	EXISTING	S	TEMPERATURE SENSOR
EA	EXHAUST AIR OR EACH	SCFM	CFM STANDARD CONDITIONS
EAD	EXHAUST AIR DAMPER	SD	SMOKE DAMPER
EAT	ENTERING AIR TEMPERATURE	SF	SUPPLY FAN
ECON	ECONOMIZER	SN	SHEET NUMBER
ED	EXTRACTOR DAMPER	SP	STATIC PRESSURE
EDB	ENTERING DRY BULB TEMPERATURE	SPC	SPECIFICATIONS
EF	EXHAUST FAN	SQ IN	SQUARE INCH
EFF	EFFICIENCY	STR	STRAINER OR SOUND TRAP
		STD	SPLITTER DAMPER OR STANDARD STRUCTURAL
ELEC	ELECTRICAL	T	THERMOMETER OR THERMOSTAT
EMS	ENERGY MANAGEMENT SYSTEM	TCP	TEMPERATURE CONTROL PANEL
EQUIP	EQUIPMENT	TD	TRANSFER DUCT
ESP	EXTERNAL STATIC PRESSURE	TDH	TOTAL DYNAMIC HEAD
EWBT	ENTERING WET BULB TEMPERATURE	TEMP	TEMPERATURE
EWT	ENTERING WATER TEMPERATURE	TI	TENANT IMPROVEMENT
EX	EXHAUST	TRG	TRANSFER GRILLE
EXT	EXTERNAL	TS	TEMPERATURE SENSOR
F	FIRE	TT	TEST TAP OR TEST TEE
FC	FRESH AIR FILTER	TYP	TYPICAL
FD	FIRE DAMPER	V	VENT OR VOLT OR VELOCITY
FF	FINAL FLOOR OR FINISHED FLOOR	VAV	VARIABLE AIR VOLUME
FLR	FLOOR	VD	VOLUME DAMPER
FPM	FEET PER MINUTE	VEL	VELOCITY
FPS	FEET PER SECOND	VERT	VERTICAL
FSD	FIRE/SMOKE DAMPER	VFD	VARIABLE FREQUENCY DRIVE
FOOT	FOOT OR FEET	VOL	VOLUME
G	GAS	W	WASTE OR WIDTH OR WATTS
GA	GAUGE, GAGE	W/	WITH
GAL	GALLONS	W/O	WITHOUT
GALV	GALVANIZED	WBT	WET BULB TEMPERATURE
GPM	GALLONS PER MINUTE	WG	WATER GAUGE
H	HEIGHT		
HB	HOSE BIB		
HC	HEATING COIL		
HD	HEAD		
HOR	HORIZONTAL		
HP	HORSEPOWER OR HEAT PUMP		
HR	HOUR(S)		
HVAC	HEATING, VENTILATING & AIR COND.		
HW	HOT WATER		
HWR	HOT WATER RETURN		
HWS	HOT WATER SUPPLY		

- GENERAL NOTES - MECHANICAL
- VERIFY ALL CONNECTIONS TO EXISTING WORK.
 - CONTRACTORS SHALL VISIT SITE AND BE FULLY COGNIZANT OF ALL CONDITIONS PRIOR TO SUBMITTING PROPOSAL.
 - DURING ENTIRE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL MAINTAIN ADEQUATE FIRE EXTINGUISHERS READY FOR USE IN CASE OF FIRE.
 - PROTECTION OF PUBLIC: THE CONTRACTOR SHALL PROTECT THE PUBLIC FROM INJURY DURING PROGRESS OF THE WORK BY POSTING WARNING SIGNS, GUARD LIGHTS AND BARRICADES.
 - THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL & PLUMBING CHARACTERISTICS WITH ALL SUB CONTRACTOR. ALL ELECTRICAL APPARATUS SERVING THE MECHANICAL EQUIPMENT SHALL FULLY COMPLY WITH ELECTRICAL AND CONTROL REQUIREMENTS.
 - OBTAIN WRITTEN PERMISSION OF ARCHITECT BEFORE PROCEEDING WITH ANY CUTTING OR PATCHING OF STRUCTURAL SYSTEMS.
 - FURNISH AND INSTALL MATERIALS, EQUIPMENT AND LABELS AS SHOWN AND AS NECESSARY FOR COMPLETE WORKABLE SYSTEMS.
 - RESTORE ALL DAMAGE RESULTING FROM THEIR WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK.
 - PROVIDE TWO SETS OF "AS-BUILT" DRAWINGS AND TWO BOUND SETS OF ALL OPERATIONS MANUALS, DIAGNOSIS, SERVICE CONTRACTS, GUARANTEES, ETC. TO THE PROPERTY MANAGER. PROVIDE ONE SET OF "AS-BUILT" DRAWINGS TO ARCHITECT.
 - WHERE APPLICABLE, THERMOSTATS SHALL BE ABLE TO:
 - MAINTAIN SPACE TEMPERATURE SET POINTS FROM 55 DEGREES TO 85 DEGREES.
 - SEQUENCE HEATING AND COOLING AND PROVIDE A 5 DEGREE DEADBAND IN WHICH NO HEATING OR COOLING IS PROVIDED TO THE SPACE.
 PROVIDE THE MANUFACTURERS AND CODE REQUIRED CLEARANCES BETWEEN EQUIPMENT CONTROLS AND BEAMS, PIPES, DUCTS, LIGHT FIXTURES, CONDUITS, WALLS OR OTHER OBSTRUCTIONS.
 - THERMOSTAT HEIGHT SHALL BE 48" ABOVE FINISHED FLOOR IN MANAGER'S OFFICE. LOCATIONS OF REMOTE TEMPERATURE SENSORS IN SALES AREA ARE TO BE APPROVED BY PM.
 - ALL PIPE AND DUCT INSULATION SHALL MEET THE REQUIREMENTS OF THE LOCAL ENERGY CODE.
 - MECHANICAL SYSTEM CONTROLS SHALL MEET THE REQUIREMENT OF THE LOCAL ENERGY CODE AND BE ABLE TO INTERFACE WITH EXISTING BUILDING CONTROLS.
 - PROVIDE REQUIRED DUCT AND PIPING INSULATION PER THE LOCAL ENERGY CODE.
 - CONTRACTOR SHALL PROVIDE ALL CODE REQUIRED MECHANICAL EQUIPMENT AND PIPE SEISMIC RESTRAINT. THE SEISMIC RESTRAINTS SHALL BE DESIGNED AND STAMPED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF THE PROJECT.
 - ALL RIGID ROUND OR OVAL DUCT SHALL BE SPIRAL WOUND, TYPICAL.
 - NO TRAPEZE UNLESS APPROVED BY OWNER.

MECHANICAL DRAWING LIST	
M-001	MECH INFORMATION AND DRAWING LIST - MECHANICAL
M-002	HVAC SCHEDULES
M-003	HVAC CALCULATIONS
M-110	OVERALL HVAC PLAN
M-111	PARTIAL HVAC PLAN
M-112	PARTIAL HVAC PLAN
M-113	PARTIAL HVAC PLAN
M-114	PARTIAL HVAC PLAN
M-115	PARTIAL HVAC PLAN
M-116	PARTIAL HVAC PLAN
M-301	MECHANICAL DETAILS
M-901	SPECIFICATIONS - MECHANICAL
M-902	SPECIFICATIONS - MECHANICAL
M-903	SPECIFICATIONS - MECHANICAL

OWNER:
WILLIAMS-SONOMA, INC.
3250 Van Ness Avenue
San Francisco, CA 94109
T 415 616 8602
F 415 439 8164
www.williams-sonoma.com

EEA
EEA Consulting Engineers
6615 Vaughn Ranch Road, Suite 100
Austin, Texas 78730-2314 USA
512.744.4400 main 512.744.4444 fax
www.eeace.com
State of Registration VIRGINIA
Firm Registration No. 0407 004734
EEA Project No. 20166524

DRAWN BY: SN
CHECKED BY: WKK

BID DOCUMENT ONLY

Not Intended for Construction or Permit.
This document is released under the
authority of:
Registrant's Name: MICHAEL N. HART
Serial No. 0402-030922

P O T T E R Y B A R R I
WILLIAMS-SONOMA
Town Center Virginia Beach
173/177 Central Park Avenue
Virginia Beach, VA 23462
PROJECT #006-151817-00/#006-151412-00

ISSUED / REVISED	DATE
FEASIBILITY SET	08/10/17
PRELIMINARY SET	09/28/17
LL CD SET	11/30/17
PERMIT SET	12/18/17
BID SET	01/04/18

MECH INFORMATION AND DRAWING LIST-MECHANICAL

M-001

Order Plans