ABBREVIATIONS

DESCRIPTION	SYMBOL
VENT THROUGH ROOF	VTR
ACID RESISTING VENT THROUGH ROOF	ARVTR
ACCESS DOOR, (ACCESS PANEL)	AD, (AP)
INVERT ELEVATION	I.E.
CAST IRON	CI
NORMALLY OPEN	NO
NORMALLY CLOSED	NC
CEILING DIFFUSER	CD
RETURN REGISTER	RR
RETURN GRILLE	RG
EXHAUST REGISTER	ER
EXHAUST GRILLE	EG
SUPPLY REGISTER	SR
SUPPLY GRILLE	SG
TRANSFER GRILLE	TG
DOOR GRILLE	DG
LOUVER	LVR
POINT OF CONNECTION	POC
OUTSIDE AIR	OSA
RETURN	RET
EXHAUST	EXH

PLUMBING PIPING LEGEND

DESCRIPTION		SYMBOL
DIRECTION OF PIPE GRADE (DOWN)		
DIRECTION OF FLOW		
DRAIN PIPING		D
WATER MAIN PIPING (OUTSIDE BUILDING)		W
COLD WATER PIPING	CW	
COLD SOFT WATER PIPING		SW
TRAP PRIMER PIPING		TP
BLENDED WATER PIPING		B
HOT WATER PIPING (110 DEGF)	HW	
HOT WATER PIPING (140 DEGF)	HW	(140)
HOT WATER PIPING (180 DEGF)	HW	(180)
HOT WATER RECIRCULATION PIPING	HWR	
LAWN SPRINKLER PIPING		LS
WALL HYDRANT/NON-FREEZE VHO	VHO/NFVHO	
HOSE BIBB	HB	
SANITARY SEWER PIPING (OUTSIDE BUILDING)		S
SANITARY WASTE PIPING (ABOVE GRADE)	SAN OR V	
WASTE PIPING (BELOW GRADE)	SAN OR V	
INDIRECT WASTE PIPING		IW
ACID RESISTING WASTE PIPING		ARW
VENT PIPING	V	
ACID RESISTING VENT PIPING		ARV
STORM SEWER PIPING (OUTSIDE BUILDING)		SS
RAIN WATER LEADER PIPING (INSIDE BUILDING)		RWL
GAS PIPING		G
FLOOR DRAIN	FD	FD SR
FUNNEL FLOOR DRAIN	FFD	
OPEN HUB DRAIN	OHD	
CLEANOUT	CO	CO
CLEANOUT THROUGH FLOOR	COTF	
CLEANOUT THROUGH WALL	COTW	
CLEANOUT TO GRADE	COTG	
ROOF DRAIN , (OVERFLOW ROOF DRAIN)	RD,(ORD)	

PIPING LEGEND

DESCRIPTION	SYMBOL
FUEL OIL SUPPLY PIPING	FOS
FUEL OIL RETURN PIPING	FOR
FUEL OIL TANK VENT	FOV
CHILLED WATER SUPPLY PIPING	CH
CHILLED WATER RETURN PIPING	CHR
REFRIGERANT LIQUID PIPING	RL
REFRIGERANT SUCTION PIPING	RS
CONDENSATE DRAIN PIPING (ABOVE GRADE)	CD
COMPRESSED AIR PIPING	A
COMPRESSED AIR OUTLET	A

7. Sheet M0.1 LEGENDS:

ADD#1 Page 8

Add piping symbols:

WOS - Waste Oil Supply
WOR - Waste Oil Return
WOT - Waste Oil Transfer
SAN - Sanitary Sewer

SYMBOLS LEGEND

PLUMBING FIXTURE SYMBOL		
P-TRAP		
AIR SEPARATOR		
FLEXIBLE PIPING CONNECTOR		
STRAINER WITH BLOWDOWN VALVE		
STRAINER		
BACKFLOW PREVENTION ASSEMBLY	BFP	
STOP AND WASTE VALVE	SWV	
BUTTERFLY VALVE	BFV	
BALL VALVE	BV	
GATE VALVE	GV	
CHECK VALVE	CV	
GLOBE VALVE	GLV	
PLUG VALVE	PV	
PRESSURE REDUCING VALVE	PRV	
RELIEF VALVE	RV	
AUTOMATIC CONTROL VALVE (TWO-WAY)	ACV	
AUTOMATIC CONTROL VALVE (THREE-WAY)	ACV	
SOLENOID VALVE	SOL	
THERMOSTATIC EXPANSION VALVE	TEV	
CALIBRATED BALANCING VALVE	CBV	
AUTOMATIC FLOW CONTROL VALVE	FCV	
FLOAT & THERMOSTATIC STEAM TRAP	F&T	
BUCKET STEAM TRAP		
THERMOSTATIC STEAM TRAP		
EXPANSION LOOP		
UNION		
CONCENTRIC REDUCER		
ECCENTRIC REDUCER		
FLOW METERING STATION		
AUTOMATIC AIR VENT	AAV	
MANUAL AIR VENT	MAV	
PIPING ANCHOR		
ALIGNMENT GUIDE		
EXPANSION JOINT	EJ	
THERMOMETER		
PRESSURE GAUGE		
THERMOSTAT		T
HUMIDISTAT		H
THRUST BLOCK	TB	
FIRE HYDRANT	FH	
CAPPED PIPE		
ELBOW, TURNED UP		
ELBOW, TURNED DOWN		
TEE, OUTLET UP		
TEE, OUTLET DOWN		
SPEED CONTROL SWITCH (WALL MOUNT)		SC
WALL SWITCH		S

VENTILATION LEGEND

DESCRIPTION		SYMBOL
DUCT SECTION(POSITIVE PRESSURE (SUPPLY)		OR
DUCT SECTION(NEGATIVE PRESSURE (RETURN/EXHAUST)		OR
SUPPLY AIR FLOW		
RETURN OR EXHAUST AIR FLOW		
INCLINE RISE IN DUCT		
INCLINE DROP IN DUCT		
FIRE/SMOKE DAMPER OR FIRE DAMPER	F/SD OR FD	
FLEXIBLE DUCT CONNECTOR		
VOLUME DAMPER	MVD	OR
SPLITTER DAMPER		OR
VOLUME EXTRACTOR		
OPPOSED BLADE DAMPER	OBD	OR
PARALLEL BLADE DAMPER	PBD	OR
DAMPER MOTOR		M
INTERNAL DUCT LINER		OR
TURNING VANES		
DUCT SIZE (FIRST FIGURE IS SIDE SHOWN)		20X12
SOUND ATTENUATOR	SA	
FLEXIBLE DUCTWORK (ROUND)		OR
ACCESS DOORS, VERTICAL OR HORIZONTAL	AD	AD 18X18
POINT OF CHANGE IN DUCT CONSTRUCTION (BY PRESSURE CLASSIFICATION)		
DUCTWORK (ROUND)	10" ⌀	
DUCTWORK (FLAT OVAL)	28X18	
TRANSITION (IN ROUND OR FLAT OVAL DUCT)		
SUPPLY DIFFUSER		1 CD 10X10 / 200 — TYPE / NK SIZE / CFM
GRILLE OR REGISTER		1 RG 12X8 / 200 — TYPE / SIZE / CFM
LOUVER, DOOR OR WALL		A 24X24LVR / 200 — SIZE / VOID / CFM
EQUIPMENT DESIGNATION		CU — GROUP, TYPE / NUMBER

AS-BUILT

No.	REVISIONS/SUBMISSIONS	DATE
3		
2		
1		

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PROJECT TITLE

GRANT COUNTY PUBLIC WORKS
OFFICE/SHOP COMPLEX
EPHRATA, WA

SHEET TITLE

LEGENDS AND SYMBOLS

SEAL: DAVID G. REAMER, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER, EXPIRES 4-10-96

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A1 LEGENDS AND SYMBOLS

N.T.S.

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