ABBREVIATIONS

A	AB	ABOVE
	ACFM	ACTUAL CUBIC FEET PER MINUTE
	AD	AREA DRAIN
	AFC	ABOVE FINISH CEILING
	AFF	ABOVE FINISH FLOOR
	AG	AIR GAP
	AGA	AREA GAS ALARM PANEL
	ACT	ACID NEUTRALIZING TANK
	AP	ACCESS PANEL
B	BFP	BACKFLOW PREVENTER
	BFV	BUTTERFLY VALVE
	BLV	BALL VALVE
	BS	BACK SIDE
	BV	BALANCING VALVE
	BWV	BACKWATER VALVE
C	CA	COMPRESSED AIR
	CBV	CAPPED AND VALVED
	CO	CLEANOUT
	CFH	CUBIC FEET PER HOUR
	CLG	CEILING
	COND	CONDENSATION
	CSSF	CLINIC SERVICE (FLUSHING RIM) SINK
	CTE	CONNECT TO EXISTING
	CO	CLEANOUT
	CV	CHECK VALVE
	CW	COLD WATER
D	DCVA	DOUBLE CHECK VALVE ASSEMBLY
	DCW	DOMESTIC COLD WATER
	D.I.S.S.	DIAMETER INDEX SAFETY SYSTEM
	DN	DOWN THROUGH FLOOR
	DP	DROP
	DWG	DRAWING
	DWH	DOMESTIC WATER HEATER
E	EL	ELEVATION
	ES	EMERGENCY SHOWER
	ETR	EXISTING TO REMAIN
	EW	EXISTING TO BE REMOVED
	EV	EVACUATION (WAGD) PIPING
	EW	EMERGENCY EYEWASH
	EWC	EMERGENCY WATER COOLER
	EX	EXISTING
	EXPTK	EXPANSION TANK
F	FA	FRESH AIR INTAKE
	FCO	FLUSH FLOOR CLEANOUT
	FD	FLOOR DRAIN
	FFE	FINISH FLOOR ELEVATION
	FLR	FLOOR
G	GC	GENERAL CONTRACTOR
	GM	GAS METER & REGULATOR SET
	GT	GREASE TRAP
	GVL	GAS VALVE
	GVB	FUEL GAS VALVE BOX
H	H&C	HOT & COLD WATER PIPING
	HB	HOSE BIBB
	HW	HOT WATER PIPING
	HWR	HOT WATER RETURN PIPING
I	IE	INVERT ELEVATION
	INV	INVERT
	IW	INDIRECT WASTE
J	JC	JANITOR'S CLOSET
	JSS	JANITOR'S SLOP SINK
K	KEC	KITCHEN EQUIPMENT CONTRACTOR
	KW	KITCHEN WASTE (GREASE)
L	L	LAVATORY
	LAB	LABORATORY
	LGA	LOCAL MEDICAL GAS ALARM PANEL
	LOW	LIGHT OF WORK
	LV	LOCKED MEDICAL VALVE
M	MA	MEDICAL AIR
	MAC	MEDICAL AIR COMPRESSOR
	MGO	MEDICAL GAS OUTLET IDENTIFICATION
	MGA	MASTER MEDICAL GAS ALARM PANEL
	MH	MANHOLE
	MOP	MOP SERVICE BASIN
	MV	MEDICAL VACUUM PIPING
	MVE	MEDICAL VACUUM EXHAUST PIPING
	MVP	MEDICAL VACUUM PUMP
N	N2	NITROGEN PIPING
	N2O	NITROUS OXIDE PIPING
	NC	NORMALLY CLOSED
	NCP	NITROGEN CONTROL PANEL
	NIC	NOT IN CONTRACT
	NO	NORMALLY OPEN
	NPCW	NON-POTABLE COLD WATER
	NPHW	NON-POTABLE HOT WATER
	NTS	NOT TO SCALE
O	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
	OFI	OWNER FURNISHED & INSTALLED
	OX	OXYGEN PIPING
P	PC	PLUMBING CONTRACTOR
	PLGD	PLUGGED
	PRV	PRESSURE REDUCING VALVE
	PRV/PA	PRESSURE REDUCING VALVE ASSEMBLY
	PSG	PRESSURE GAGE
	PVB	PRESSURE VACUUM BREAKER
	PG	PRESSURE GAUGE
R	RD	ROOF DRAIN
	RP	RECIRC. PUMP
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	RV	RELIEF VALVE
	RW	RAIN WATER PIPING
S	SH	SHOWER
	SK	SINK
	SL	SLOPE (1/8" PER FOOT)
	S.VR. W	SOIL OF WASTE PIPING
	SQ. FT.	SQUARE FEET
	ST	STOP & CHECK
	STR	STRAINER
	SP	SUMP PUMP
	SV	SPECIAL VENT
	SVTR	SPECIAL VENT THROUGH ROOF
	SW	SPECIAL WASTE
T	T&P	TEMPERATURE & PRESSURE RELIEF VALVE
	TG	TEMPERATURE GAUGE
	TMV	THERMOSTATIC MIXING VALVE
	TOC	TOP OF CONCRETE
	TOP	TOP OF PIPE
	TR	THROUGH ROOF
	TYP.	TYPICAL
	TW	TEPID WATER
	TWR	TEPID WATER RETURN
U	UN	UNION
	UP	UP (THROUGH SLAB ABOVE)
	UP&DN	UP&DN (THROUGH FLOOR SLAB)
	U	URINAL
	UW	UNSAFE (NON-POTABLE) WATER PIPING
V	V	VENT PIPING
	VAC	MEDICAL VACUUM PIPING
	VB	VACUUM BREAKER
	VE	MEDICAL VACUUM EXHAUST PIPING
	VL	VENT ELBOW
	VS	VENT STACK
	VTR	VENT THROUGH ROOF
W	W&T	WASTE AND TRAP
	W&V	WASTE AND VENT
	WAGD	WASTE ANESTHETIC GAS DISPOSAL
	WB	WATER BOOSTER
	WC	WATER CLOSET
	WCO	WALL CLEANOUT
	WFA	WATER FILTER ASSEMBLY
	WH	WALL HYDRANT
	WMA	WATER HAMMER ARRESTOR
	WP	WHIRL POOL
Y	YCO	YARD CLEAN OUT
Z	ZVB	MEDICAL GAS ZONE VALVE BOX

SYMBOLS LEGEND

A1.2 / E — COLUMN LINE DESIGNATION

WC-1 — PLUMBING FIXTURE DESIGNATION

CONNECT TO EXISTING

X / AXXX — DRAWING NUMBER / SHEET NUMBER — DETAIL DESIGNATION

X / XX — REVISION DESIGNATION

K1 — KITCHEN EQUIPMENT DESIGNATION

DRAWING LIST

PLUMBING

P001	PLUMBING LEGENDS, NOTES, ABBREVIATIONS, & SCHEDULES
P201	PLUMBING LEVEL 1 & PLATFORM PLAN
P202	PLUMBING LEVEL 2, PLATFORM, & ROOF PLANS
P300	PLUMBING DETAILS

General Notes:

1. THIS IS A STANDARD SYMBOL LIST. ALL SYMBOLS MAY NOT NECESSARILY APPEAR ON THE FLOOR PLANS OR DETAIL SHEETS. ONLY THOSE INDICATED ON THE FLOOR PLANS AND DETAILS SHEETS SHOULD BE USED, AND ALL OTHERS SHOULD BE DISREGARDED.

PIPING LEGEND

GENERAL

- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- NEW PIPING

WATER

- COLD WATER PIPING
- HOT WATER PIPING
- HOT WATER RETURN PIPING
- HOT WATER PIPING (140°F)
- HOT WATER RETURN PIPING (140°F)
- DEIONIZED WATER PIPE
- DISTILLED WATER PIPE
- COLD WATER PIPING (HIGH PRESSURE)
- HOT WATER PIPING (HIGH PRESSURE)
- HOT WATER RETURN PIPING (HIGH PRESSURE)
- NON-POTABLE COLD WATER PIPING
- NON-POTABLE HOT WATER PIPING
- NON-POTABLE HOT WATER RETURN PIPING
- REVERSE OSMOSIS WATER PIPING
- REVERSE OSMOSIS DEIONIZED WATER PIPING
- TEPID WATER PIPING
- TEPID WATER RETURN

DRAINAGE

- SANITARY OR WASTE PIPING
- UNDER SLAB SANITARY OR WASTE PIPING
- VENT PIPING
- UNDER SLAB VENT PIPING
- GARAGE WASTE PIPING (GAS/OIL WASTE)
- UNDER SLAB GARAGE WASTE PIPING
- GARAGE VENT PIPING
- UNDER SLAB GARAGE VENT PIPING
- INDIRECT WASTE PIPING
- KITCHEN WASTE PIPING (GREASE WASTE)
- UNDER SLAB KITCHEN WASTE PIPING
- PUMPED DISCHARGE PIPING
- RAIN WATER PIPING
- UNDER SLAB RAIN WATER PIPING
- SPECIAL WASTE PIPING
- UNDER SLAB SPECIAL WASTE PIPING
- SPECIAL VENT PIPING
- UNDER SLAB SPECIAL VENT PIPING

GAS

- CO2 — CARBON DIOXIDE PIPING
- CA — COMPRESS AIR PIPING
- EV — EVACUATION (WAGD) PIPING
- FA — FRESH AIR INTAKE PIPING
- G — NATURAL GAS PIPING
- HG — GAS HIGH PRESSURE
- GV — NATURAL GAS VENT PIPING
- LV — LABORATORY VACUUM PIPING
- MA — MEDICAL AIR PIPING
- MG — GAS MEDIUM PRESSURE
- MV — MEDICAL VACUUM PIPING
- MVE — MEDICAL VACUUM EXHAUST PIPING
- N — NITROGEN PIPING
- N2O — NITROUS OXIDE PIPING
- O — OXYGEN PIPING
- SG — SPECIAL GAS PIPING

PIPING SYMBOL LEGEND

DRAINS

- AD — AREA DRAIN
- FD — FLOOR DRAIN
- RD — ROOF DRAIN
- TD — TRENCH DRAIN

PIPING

- CAPPED
- CLEANOUT
- DOWN THROUGH FLOOR
- DROP (OR RISE)
- FLEX CONNECTOR
- FLOW ARROW
- FLUSH FLOOR CLEANOUT
- IN-LINE PRESSURE SENSOR
- PIPE GUIDE
- PRESSURE GAUGE
- PS — PRESSURE SWITCH
- 1" — SLOPE (1" PER FOOT)
- UNION
- UP (THROUGH SLAB ABOVE)
- UP & DOWN (THROUGH FLOOR SLAB)
- UT — UP & TRAP
- TG — TEMPERATURE GAGE
- W&T — WASTE & TRAP

VALVES

- BACKWATER VALVE
- BALANCING VALVE
- BUTTERFLY VALVE
- CAPPED & VALVED
- CHECK VALVE
- DCVA — DOUBLE CHECK VALVE ASSEMBLY
- GAS COCK
- GATE VALVE
- HB — HOSE BIBB
- ISOLATION VALVE
- PRESSURE REDUCING VALVE
- PRV/PA — PRESSURE REGULATING VALVE ASSEMBLY
- RPBP — REDUCED PRESSURE BACKFLOW PREVENTER
- RELIEF VALVE
- STRAINER
- T&P — TEMPERATURE & PRESSURE RELIEF VALVE
- WH — WALL HYDRANT
- ZVB — MEDICAL GAS ZONE VALVE BOX

PLUMBING FIXTURE ROUGHING SCHEDULE

I.D.	FIXTURE TYPE	USE	CW	HW	S/W	V	REMARKS
WC-1	WATER CLOSET (HC)	TOILET ROOM	1"	–	4"	2"	WALL HUNG
L-1	LAVATORY (HC)	TOILET ROOM	1/2"	1/2"	2"	1-1/2"	WALL HUNG W/ GOOSENECK SPOUT
MSB-1	MOP SERVICE BASIN	1ST & 2ND LEVEL	1/2"	1/2"	3"	2"	24" X 36" W/VB
SH-1	SHOWER	TOILET ROOM	1/2"	1/2"	2"	1-1/2"	ACRYLIC NEO ANGLE
EEW-1	EMERG. EYEWASH UNIT	1ST & 2ND LEVEL	1-1/4"	1-1/4"			PROVIDE TEPID WATER VIA TMV.
HB	HOSE BIBB	INTERIOR	3/4"	–	–	–	WALL MOUNT W/VB CONNECTION
WH	WALL HYDRANT	EXTERIOR	3/4"	–	–	–	RECESSED BOX W/VB CONNECTION

NOTES: 1. COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS AND G.C.

DRAIN SCHEDULE

I.D.	MANUFACTURER	MODEL	LOCATION	OUTLET	STR	REMARKS
FD	JAY R. SMITH	2005	MECHANICAL ROOM	4"	8"	W/TRAP PRIMER CONNECTION (1)
RD-A	JAY R. SMITH	1010	ROOF	4"	16"	LOW PROFILE DOME
RD-B	JAY R. SMITH	3970	ROOF	6"	10-1/2"	COOLING TOWER ROOF-CEPTOR
AD-A	JAY R. SMITH	3001	AREA WAY	4"	12"	PROVIDE BACKWATER VALVE

NOTES: 1. 1/2" TRAP PRIMER SUPPLY LINE SHALL BE INSTALLED TO DRAIN GRAVITY. AVOID BENDS & TRAPS IN PIPING TO INSURE WATER IS NOT RESTRICTED FROM REACHING FLOOR DRAIN TRAP.

PUMP SCHEDULE

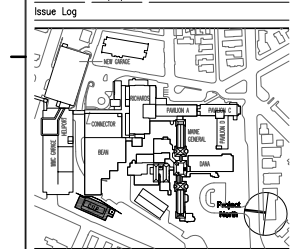
I.D.	MANUFACTURER	MODEL	G.P.M.	HEAD	ELEC. CHARACTERISTICS				REMARKS
					H.P.	VOLT	PHASE	R.P.M.	
BP-1	SYNCROFLO	–	30	220	5	460	3	3450	DUPLEX BOOSTER PUMP ASSEMBLY

NOTES: 1. BP-1 SHALL MAINTAIN A CONSTANT 125PSIG IN CHILLED WATER SYSTEM..

MARK	ISSUE DATE	DESCRIPTION
PERMIT	09/24/04	PERMIT SET – NOT FOR CONSTRUCTION

FOR PERMIT ONLY
NOT FOR CONSTRUCTION

Issue Log



Key Plan

TRO
Architecture
Planning
Engineering
Interior Design
The Ritchie Organization
80 Bridge Street
Newton, MA 02458-1134
617-969-9400

Maine Medical Center
Central Utility Plant
Portland, Maine

Drawing Title
PLUMBING LEGENDS, NOTES, ABBREVIATIONS AND SCHEDULES

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