PLUMBING & DRAINAGE LEGEND

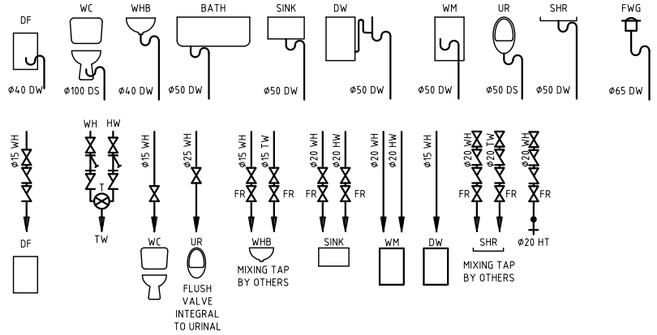
SYMBOL	DESCRIPTION
f	FLOW
r	RETURN
B	BATH
BU	BOILING UNIT
CE	CLEANING EYE
CLS	CLEANERS SINK
DF	DRINKING FOUNTAIN
DR	STORMWATER
DS	SOIL
DV	VENT
DW	WASTE
DW(G)	WASTE (GREASE)
EW	EYE WASH
FATB	FROM ABOVE TO BELOW
FB	FROM BELOW
FBTA	FROM BELOW TO ABOVE
FWG	FLOOR WASTE GULLY
GL	GAS SERVICE FROM MAIN
GS	GAS SUPPLY DOWNSTREAM OF METER
GT	GULLY TRAP
HL	HIGH LEVEL
HW	HOT WATER
IB	INSPECTION BEND
I.C.	INSPECTION CHAMBER
IJ	INSPECTION JUNCTION
LL	LOW LEVEL
MH	MANHOLE
ORG	OVERFLOW RELIEF GULLY
PRV	PRESSURE REDUCING VALVE
QT	QUENCH TANK
RO	ROOF OUTLET
S	SINK
SGT	SEALED GULLY TRAP
SHR	SHOWER
SSMH	SANITARY SEWER MANHOLE
SWMH	STORMWATER MANHOLE
TA	TO ABOVE
TP	TRAP PRIMED
T.V.	TERMINAL VENT
TW	TEMPERED WATER
UR	URINAL
WC	WATER CLOSET PAN
WH	MAINS COLD WATER SUPPLY
WH (FV)	POTABLE WATER SUPPLY TO FLUSH VALVES
WHB	WASH HAND BASIN
WM	WASHING MACHINE
WT	WASH TROUGH

SYMBOL	DESCRIPTION
	ISOLATING VALVE (NORMALLY OPEN)
	ISOLATING VALVE (NORMALLY CLOSED)
	NON-RETURN VALVE (FULL ARROW IS DIRECTION OF FLOW)
R	REGULATING VALVE
IR	ISOLATING REGULATING VALVE
FR	CONSTANT FLOW REGULATING VALVE
FV	FLUSH VALVE
	3-WAY VALVE
RPZ	RPZ TYPE BACK FLOW PREVENTOR
	MONITORED ISOLATING VALVE
	PRESSURE REGULATING VALVE
	PRESSURE RELIEF VALVE
	MOTORISED/SOLENOID VALVE
FV	FIRE VALVE (FUEL)
LSV	LOCKSHIELD VALVE
	FLEXIBLE PIPE
	STRAINER
LP PR HP	PRESSURE REDUCING VALVE
DHU	DRAIN POINT WITH HOSE UNION
TP/PP	TEST POINT / PURGE POINT
PS	PRESSURE SWITCH
FS	FLOW SWITCH
FM	FLOW METER
P	PRESSURE GAUGE AND VALVE
T	TEMPERATURE GAUGE
TP	TEST POINT
B	BINDER POINT (GAUGE TEST POINT)
EB	EXPANSION JOINT (BELLOWS TYPE)
	CIRCULATING PUMP
M	WATER METER
T	TEMPERING VALVE
M	MIXING VALVE
AAV	AUTOMATIC AIR VENT
AB	AIR BOTTLE
	TUNDISH
HT	HOSE TAP
	CAPPED PIPE
	DOWN PIPE
	CHANGE IN FALL
	SUMP
	SUMP & PUMP

HWC	HOT WATER CYLINDER
FWG OR FWG	FLOOR WASTE GULLY FW = FLOOR WASTE (NOT TRAPPED)
GT OR GT	GULLY TRAP ORG = OVERFLOW RELIEF GULLY
CE OR CE	CLEANING EYE
E	EXISTING
R	REDUNDANT
	DIRECTION OF FLOW OR FALL
	PIPE AT LOW LEVEL
	EXPOSED PIPE AT HIGH LEVEL
	CONCEALED PIPE IN CEILING SPACE
	PIPE UNDER FLOOR
SIZE SIZE	CONCENTRIC REDUCER
	CHANGES IN PIPE LEVEL (PIPE TURNS DOWN, PIPE TEES DOWN & PIPE TURNS UP)
	BRANCH PIPE TAKEN OFF OF MAIN
	STRUCTURAL PENETRATION

TYPICAL FIXTURE CONNECTION SIZES (DN)

UNLESS NOTED OTHERWISE



TYPICAL SOIL & WASTE PIPE FALLS

UNLESS NOTED OTHERWISE

- Ø40 FALLS @ 1:40
- Ø50 FALLS @ 1:40
- Ø65 FALLS @ 1:40
- Ø80 FALLS @ 1:60
- Ø100 FALLS @ 1:60
- Ø150 FALLS @ 1:100
- Ø225 FALLS @ 1:150

TENDER/CONSENT
NOT FOR CONSTRUCTION

Rev	Date	Revision Details	Des.	Ver.	App.
01	14.05.10	TENDER/CONSENT	AC	SR	SR

aurecon
Aurecon New Zealand Limited
139 Carlton Gore Road (PO Box 9762) Newmarket
Auckland New Zealand
Telephone: +64 9 520-6019
Facsimile: +64 9 524-7815
Email: auckland@ap.aurecongroup.com

A person using Aurecon drawings and other data accepts the risk of:
1. Using the drawings and other data in electronic form without requesting and checking them for accuracy against the original hard copy version.
2. Using the drawings or other data for any purpose not agreed to in writing by Aurecon.
Wherever a discrepancy in the contract documents is found and unless directed otherwise by the Principal/Engineer, the contractor shall adopt, at their own cost the greater quantum, class of finish, grade, or specification where applicable.

Client:

Waitemata District Health Board
Te Wai Awhina

Project:

FIXED ORAL HEALTH CARE UNITS

Drawing Title:

HYDRAULIC SERVICES LEGEND

Drawn	Signed	Date	Verified	Signed	Date
SY	SY	14.05.10	SR	SR	14.05.10
Designed	Signed	Date	Approved	Signed	Date
AC	AC	14.05.10	JP	JP	14.05.10

Project No.	Scale:	Sheet Size
206281	1:100	A1
Drawing No.		Revision:
H101		01

20 10 0 10 20 30 40 50 100mm

Cad File: P:\206000 - BST\206281\5 CAD\DRGS\HYD\206281_H001.dwg Plot Date: 17/05/2010 9:46:17 AM Name: Joanne Lum Xrefs: x206281_Vertiflo_Disclaimer; Logo Images: CDHBlogo