

KINGSTON QUARTER 20 NANCARROW AVE SHEPHERDS BAY

HYDRAULIC SERVICES

SYMBOLS

	DIRECTION OF FLOW SERVICE SIZE
	CONTINUED ON DWG
	DROPPER
	RISER
	TEE
	CAPPED OFF SERVICE
	DIRECTION OF FLOW IN PIPE
	REDUCER
	ISOLATION VALVE
	BALANCING VALVE
	BALL VALVE
	FLOAT VALVE
	CHECK VALVE (WATER SERVICE)
	REFLUX VALVE (DRAINAGE)
	SV IN PATH BOX
	SOLENOID VALVE
	RPZD
	STRAINER
	TUNDISH
	FLOOR WASTE
	BUCKET TRAP FLOOR WASTE
	OVERFLOW RELIEF GULLY/YARD GULLY
	BOUNDARY TRAP
	AIR ADMITTANCE VALVE
	CLEAR OUT
	IPMF
	PUMP
	METER
	TMV
	PRESSURE GAUGE
	FILTER
	PRESSURE REDUCING VALVE
	PRESSURE LIMITING VALVE
	HOT WATER UNIT
	HOSE TAP
	GAS REGULATOR
	GAS METER
	ELECTRICAL CONTROL PANEL
	OVERLAND FLOW PATH
	PENETRATION

SYMBOLS

	SEWER MANHOLE
	KERB INLET PIT
	STORMWATER HEADWALL
	SPREADER
	FIRE HOSEREEL
	FIRE HYDRANT DOWNPIPE
	RAINWATER OUTLET
	STORMWATER PIT (WITH COVER)
	STORMWATER PIT (WITH GRATE)
	SQUARE RAINWATER OUTLET

PIPEWORK

	STORMWATER
	STORMWATER RISING MAIN
	SUB-SOIL SEWER
	SEWER RISING MAIN
	VENT
	TRADE WASTE
	TRADE WASTE RISING MAIN
	COLD WATER
	HOT WATER
	HOT WATER RETURN
	WARM WATER
	WARM WATER RETURN
	NON POTABLE COLD WATER
	GAS
	FIRE HYDRANT
	FIRE HOSE REEL
	SPRINKLER LINE
	RECYCLED WATER
	RAINWATER
	FLOW SYSTEMS
	ELECTRICAL
	CAST IN
	EXISTING COLD WATER
	EXISTING HOT WATER
	EXISTING SPRINKLER
	EXISTING STORMWATER
	EXISTING SUBSOIL
	EXISTING SEWER
	EXISTING VENT
	EXISTING TRADE WASTE VENT
	EXISTING GAS
	EXISTING FIRE HYDRANT
	EXISTING FIRE HOSE REEL
	EXISTING TELSTRA
	EXISTING DELETE

DRAWING SCHEDULE

DWG No.	Scale	Drawing Title
H000	NTS	HYDRAULIC SERVICES COVER SHEET AND LEGEND
H01	1:200	HYDRAULIC SERVICES BASEMENT 4 IN GROUND GRAVITY
H02	1:200	HYDRAULIC SERVICES BASEMENT 4 HIGH LEVEL GRAVITY
H03	1:200	HYDRAULIC SERVICES BASEMENT 3 HIGH LEVEL GRAVITY
H04	1:200	HYDRAULIC SERVICES BASEMENT 2 HIGH LEVEL GRAVITY
H05	1:200	HYDRAULIC SERVICES BASEMENT IN GROUND GRAVITY
H06	1:200	HYDRAULIC SERVICES BASEMENT 1 HIGH LEVEL GRAVITY
H07	1:200	HYDRAULIC SERVICES LEVEL 1 HIGH LEVEL GRAVITY
H08	1:200	HYDRAULIC SERVICES LEVEL 2 HIGH LEVEL GRAVITY
H09	1:200	HYDRAULIC SERVICES LEVEL 3 HIGH LEVEL GRAVITY
H10	1:200	HYDRAULIC SERVICES LEVEL 4 HIGH LEVEL GRAVITY
H11	1:200	HYDRAULIC SERVICES LEVEL 5 HIGH LEVEL GRAVITY
H12	1:200	HYDRAULIC SERVICES LEVEL 6 HIGH LEVEL GRAVITY
H13	1:200	HYDRAULIC SERVICES LEVEL 7 HIGH LEVEL GRAVITY
H14	1:200	HYDRAULIC SERVICES LEVEL 8 HIGH LEVEL GRAVITY
H15	1:200	HYDRAULIC SERVICES LEVEL 9 HIGH LEVEL GRAVITY
H16	1:200	HYDRAULIC SERVICES LEVEL 10 HIGH LEVEL GRAVITY
H17	1:200	HYDRAULIC SERVICES LEVEL 11 HIGH LEVEL GRAVITY
H18	1:200	HYDRAULIC SERVICES LEVEL 12 HIGH LEVEL GRAVITY
H19	1:200	HYDRAULIC SERVICES BASEMENT 4 HIGH LEVEL GRAVITY
H20	1:200	HYDRAULIC SERVICES BASEMENT 3 HIGH LEVEL PRESSURE
H21	1:200	HYDRAULIC SERVICES BASEMENT 2 HIGH LEVEL PRESSURE
H22	1:200	HYDRAULIC SERVICES BASEMENT 1 HIGH LEVEL PRESSURE
H23	1:200	HYDRAULIC SERVICES LEVEL 1 HIGH LEVEL PRESSURE
H24	1:200	HYDRAULIC SERVICES LEVEL 2 HIGH LEVEL PRESSURE
H25	1:200	HYDRAULIC SERVICES LEVEL 3 HIGH LEVEL PRESSURE
H26	1:200	HYDRAULIC SERVICES LEVEL 4 HIGH LEVEL PRESSURE
H27	1:200	HYDRAULIC SERVICES LEVEL 5 HIGH LEVEL PRESSURE
H28	1:200	HYDRAULIC SERVICES LEVEL 6 HIGH LEVEL PRESSURE
H29	1:200	HYDRAULIC SERVICES LEVEL 7 HIGH LEVEL PRESSURE
H30	1:200	HYDRAULIC SERVICES LEVEL 8 HIGH LEVEL PRESSURE
H31	1:200	HYDRAULIC SERVICES LEVEL 9 HIGH LEVEL PRESSURE
H32	1:200	HYDRAULIC SERVICES LEVEL 10 HIGH LEVEL PRESSURE
H33	1:200	HYDRAULIC SERVICES LEVEL 11 HIGH LEVEL PRESSURE
H34	1:200	HYDRAULIC SERVICES LEVEL 12 HIGH LEVEL PRESSURE
H35	NTS	FIRE HYDRANT SCHEMATIC

DRAWING SCHEDULE

DWG No.	Scale	Drawing Title
H37	NTS	HYDRAULIC SERVICES COLD WATER SCHEMATIC
H38	NTS	HYDRAULIC SERVICES WARM WATER SCHEMATIC
H39	NTS	HYDRAULIC SERVICES RECYCLED WATER SCHEMATIC

ABBREVIATIONS

Abbreviation	Full Name	Abbreviation	Full Name	Abbreviation	Full Name
A/C	AIR CONDITIONING	GTU	GREASE TURN UP	RWH	RAIN WATER HEAD
AAV	AIR ADMITTANCE VALVE	GTVP	GREASE TRAP VENT PIPE	RWO	RAINWATER OUTLET
AHD	AUSTRALIAN HEIGHT DATUM	GV	GATE VALVE	TWST	TRADE WASTE STACK
AS	AUSTRALIAN STANDARDS	GVP	GREASE VENT PIPE	TWVP	TRADE WASTE VENT PIPE
B	BASIN	HL	HIGH LEVEL	TYP	TYPICAL
BBQ	BARBEQUE	HD	HEAVY DUTY	UIS	UNDERSIDE
BCA	BUILDING CODE OF AUSTRALIA	HDPE	HIGH DENSITY POLYETHYLENE	UNO	UNLESS NOTED OTHERWISE
BCWU	BOLING CHILLED WATER UNIT	HT	HOSE TAP	UPVC	UNPLASTICISED POLYVINYL CHLORIDE
BDO	BALCONY DRAIN OUTLET	HV	HIGH VOLTAGE	URINAL	URINAL
BP	BAYONET POINT	HW	HOT WATER	UV	ULTRA VIOLET
BT	BOUNDARY TRAP	HWF	HOT WATER FLOW	VAC	VACUUM LINE
BTFW	BUCKET TRAP FLOORWASTE	HWM	HOT WATER METER	VB	VACUUM BREAKER
BTH	BATH	HWR	HOT WATER RETURN	VCP	VITRIFIED CLAY PIPE
BV	BALL VALVE / BALANCING VALVE	HWU	HOT WATER UNIT	VP	VENT PIPE
BWU	BOILING WATER UNIT	ID	INSIDE DIAMETER	WC	WATER CLOSET
CD	CONDENSATE DRAIN	IL	INVERT LEVEL	WL	WATER LEVEL
CI	CAST IRON	IM	ICE MACHINE	WM	WASHING MACHINE (CLOTHES)
CIC	CAST IN COLUMN	IO	INSPECTION OPENING	WST	WASTE STACK
CICL	CAST IRON CEMENT LINED	IPMF	INDUCT PIPE MICA FLAP	WT	WASH TROUGH
CIS	CAST IN SLAB	IR	IRRIGATION	WW	WARM WATER
CL	CEILING LEVEL	IV	ISOLATION VALVE	WWF	WARM WATER FLOW
CO	CLEAR OUT	KIP	KERB INLET PIT	WWR	WARM WATER RETURN
CP	CHROME PLATED	KPA	KILOPASCAL	X	REDUNDANT / REMOVE
CS	CLEANERS SINK	KW	KILOWATT	S/S	STAINLESS STEEL
CT	CONDENSATE STACK	L	LITRES	SDO	SPOON DRAIN OUTLET
CT	COOK TOP	L/L	LOW LEVEL	SH	SLOP HOPPER
CJ	COPPER	L/S	LITRES PER SECOND	SHR	SHOWER
CV	CONTROL VALVE	LD	LIGHT DUTY	SIP	SEWER INSPECTION PIT
CW	COLD WATER	LPG	LIQUIFIED PETROLEUM GAS	SK	SINK
DIS	DISABLED	LT	LAUNDRY TUB	SL	SURFACE LEVEL
DCV	DOUBLE CHECK VALVE	LU	LOADING UNITS	SMH	SEWER MANHOLE
DE	DIESEL EXHAUST	M	METRE	SO	SYPHONIC OUTLET
DF	DRINKING FOUNTAIN	M.HEAD	METRES HEAD	SOF	SYPHONIC OVERFLOW
DIA	DIAMETER	M/S	METRES PER SECOND	SPD	SPREADER
DICL	DUCTILE IRON CEMENT LINED	M3HR	CUBIC METRES PER HOUR	SPR	SPRINKLER
DP	DOWNPIPE	MDPE	MEDIUM DENSITY POLYETHYLENE	SO	SQUARE
DTU	DRAINAGE TURN UP	MIN	MINIMUM	SRM	SEWER RISING MAIN
DW	DISHWASHER	MJ	MEGAJOULES	SSD	SUBSOIL DRAINAGE
DWG	DRAWING	MM	MILLIMETRES	SSHR	SAFETY SHOWER
EX	EXISTING	MS	MILD STEEL	SSL	STRUCTURAL SLAB LEVEL
EJ	EXPANSION JOINT	NG	NATURAL GAS	SSRM	SUBSOIL RISING MAIN
ELEC	ELECTRICAL	NPBW	NON-POTABLE COLD WATER	SST	SOIL STACK
EW	EYE WASH	NPHW	NON-POTABLE HOT WATER	SSVP	SOIL STACK VENT PIPE
EXT	EXTINGUISHER	NPHWF	NON-POTABLE HOT WATER FLOW	ST	STACK
FC	FUME CUPBOARD	NPHWR	NON-POTABLE HOT WATER RETURN	STD	SPRINKLER TEST DRAIN
FCR	FOR CONTINUATION REFER	NRV	NON-RETURN VALVE	SV	STOP VALVE
FFL	FINISHED FLOOR LEVEL	NTS	NOT TO SCALE	SW	STORMWATER
FH	FIRE HYDRANT	N/W	NYLON	SWD	STORMWATER DRAINAGE
FIBV	FIRE HYDRANT BOOSTER VALVE	O/F	OVERFLOW	SWIP	STORMWATER INSPECTION PIT
FHR	FIRE HOSE REEL	OD	OUTSIDE DIAMETER	SWP	STORMWATER PIT
FH	FIRE HYDRANT VALVE	ORG	OVERFLOW RELIEF GULLY	SWRM	STORMWATER RISING MAIN
FP	FIRE INDICATOR PANEL	PIO	PUMP OUT	SYP	SYPHONIC
FR	FIBRE REINFORCED CONCRETE	PDO	PLANTER DRAIN OUTLET	TB	THRUST BLOCK
FSL	FINISHED SURFACE LEVEL	PG	PRESSURE GAUGE	TBR	TO BE REMOVED
FU	FIXTURE UNITS	PLV	PRESSURE LIMITING VALVE	TD	TUNDISH
FV	FLUSH VALVE	PRV	PRESSURE RELIEF VALVE	TEL	TELECOMMUNICATION SERVICE
FW	FLOORWASTE	PS	PAN SANITISER	TG	TRENCH GRATE
GA	GREASE ARRESTOR	PVC	POLYVINYL CHLORIDE	TLV	TEMPERATURE LIMITING VALVE
GAL	GALVANISED	RCP	REFLECTED CEILING PLAN	TMV	THERMOSTATIC MIXING VALVE
GAS	GAS SERVICE	RCP	REINFORCED CONCRETE PIPE	TPRV	TEMPERATURE & PRESSURE RELIEF VALVE
GD	GRATED DRAIN	RHS	RECTANGULAR HOLLOW SECTION	TTD	TRAPPED TUNDISH
GL	GROUND LEVEL	RL	REDUCED LEVEL	TWD	TRADE WASTE DRAINAGE
GM	GAS METER	RO	REVERSE OSMOSIS	TWIP	TRADE WASTE INSPECTION PIT
GMS	GALVANISED MILD STEEL	RPZD	REDUCED PRESSURE ZONE DEVICE	WRM	TRADE WASTE RISING MAIN
GR	GAS REGULATOR	RV	REFLUX VALVE		
GST	GREASE STACK	RW	RAINWATER		

NOTE: THIS IS A STANDARD LEGEND. ALL SYMBOLS MAY NOT NECESSARILY BE USED IN THESE DRAWINGS.

AS BUILT

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