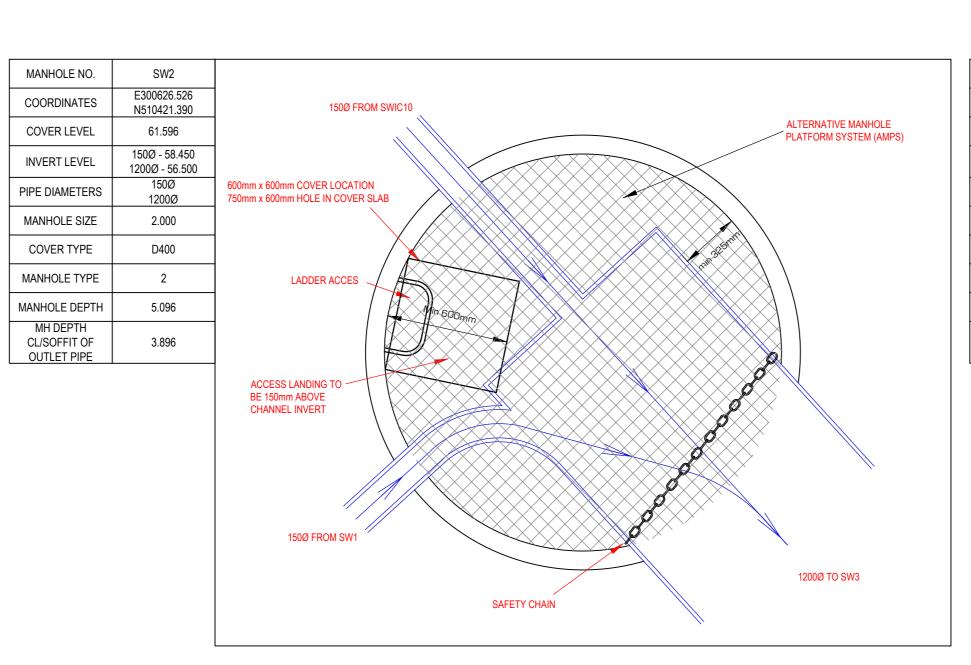
## ADOPTABLE SURFACE WATER 1:20 MANHOLE DETAILS

MANHOLE NO.  COORDINATES  COVER LEVEL  INVERT LEVEL  PIPE DIAMETERS  MANHOLE SIZE  COVER TYPE  MANHOLE TYPE  MANHOLE DEPTH  MH DEPTH  CL/SOFFIT OF  OUTLET PIPE	SW1 E300605.466 N510402.188 62.736 60.736 150Ø 1.500 D400 1 2.080 1.930	1500 FROM SWIC7  1500 TO SW2  600mm x 600mm COVER LOCATION 750mm x 600mm HOLE IN COVER SLAB  DOUBLE STEP ACCESS  1500 FROM GULLY  1500 FROM GULLY
		150Ø FROM GULLY  150Ø FROM SWIC2



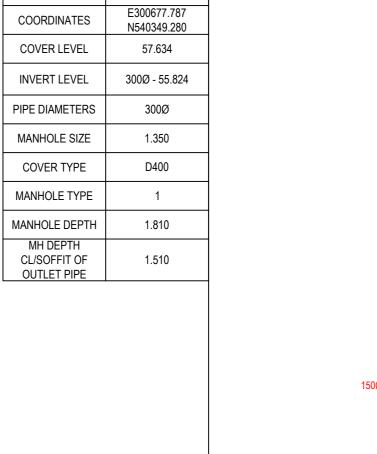
MANHOLE NO.	SW3	
COORDINATES	E300649.098 N510396.633	OVERFLOW PIPE
COVER LEVEL	60.308	1200Ø FROM SW2 300Ø TO PSW3
INVERT LEVEL	1200Ø - 56.407 OF 300Ø - 58.720	IL 58.720
PIPE DIAMETERS	1200Ø 300Ø	
MANHOLE SIZE	2.100	
COVER TYPE	D400	
MANHOLE TYPE	2	
MANHOLE DEPTH	3.901	
MH DEPTH CL/SOFFIT OF OUTLET PIPE	2.701	SAFETY CHAIN
		And Strict
		STEP RUNGS
		1200Ø TO SW4
		600mm x 600mm COVER LOCATION 750mm x 600mm HOLE IN COVER SLAB

MANHOLE NO.	SW4	
COORDINATES	E300655.246 N510385.635	1000G EDOMONO
COVER LEVEL	59.798	1200Ø FROM SW3
INVERT LEVEL	1200Ø - 56.375	
PIPE DIAMETERS	1200Ø	
MANHOLE SIZE	2.100	
COVER TYPE	D400	
MANHOLE TYPE	2	
MANHOLE DEPTH	3.423	
MH DEPTH CL/SOFFIT OF OUTLET PIPE	2.223	SAFETY CHAIN
		ACCESS LANDING TO BE 150mm ABOVE CHANNEL INVERT  DOUBLE STEP ACCESS  1200Ø TO SW5

COORDINATES	E300665.557 N510374.467
COVER LEVEL	59.159
INVERT LEVEL	1200Ø - 56.335
PIPE DIAMETERS	1200Ø
MANHOLE SIZE	2.100
COVER TYPE	D400
MANHOLE TYPE	FLOW CONTROL
MANHOLE DEPTH	2.824
MH DEPTH CL/SOFFIT OF OUTLET PIPE	1.624

MANHOLE NO. SW5FC

FOR FLOW CONTROL DETAIL REFER TO RWO DRAWING D702



57.632

56.244

150Ø

1.350

D400

1.388

1.238

COVER LEVEL

INVERT LEVEL

PIPE DIAMETERS

MANHOLE SIZE

COVER TYPE

MANHOLE TYPE

MANHOLE DEPTH

MH DEPTH CL/SOFFIT OF OUTLET PIPE

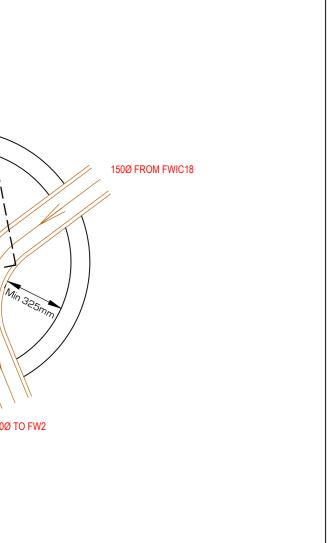
MANHOLE NO.

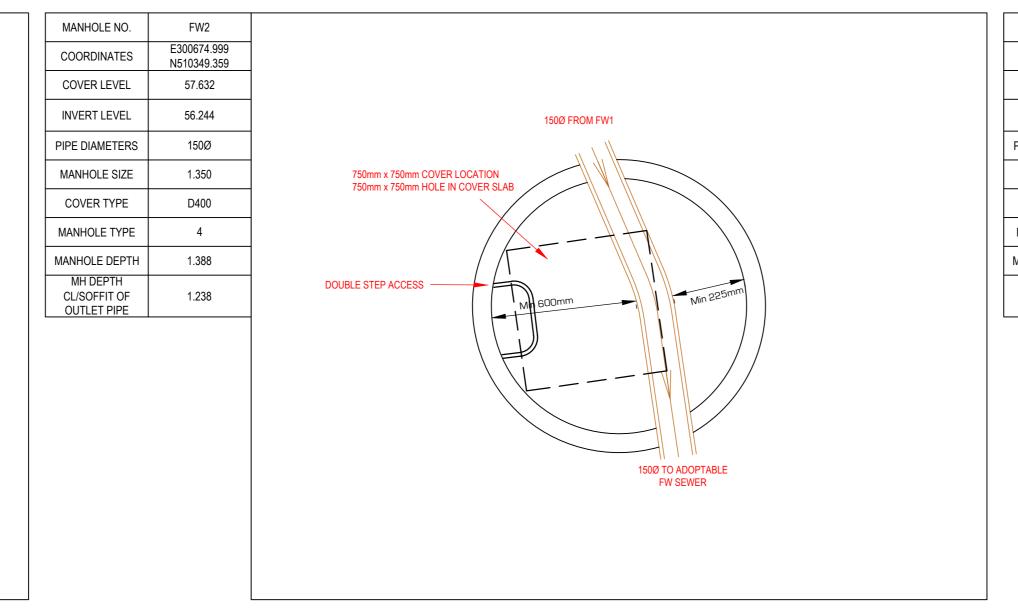
SW6

MANHOLE NO.	EXISTING SW	
COORDINATES	E300674.029 N540349.280	
COVER LEVEL	57.634	300Ø FROM SW6
INVERT LEVEL	150Ø - 55.824	
PIPE DIAMETERS	300Ø	
MANHOLE SIZE	EXISTING	
COVER TYPE	D400	
MANHOLE TYPE	1	
MANHOLE DEPTH	1.800	
MH DEPTH CL/SOFFIT OF OUTLET PIPE	1.500	
		300Ø TO ADOPTABLE SW SEWER  750mm x 750mm COVER LOCATION 750mm x 750mm HOLE IN COVER SLAB

## ADOPTABLE FOUL WATER 1:20 MANHOLE DETAILS

,		
MANHOLE NO.	FW1	
COORDINATES	E300665.531 N510371.413	
COVER LEVEL	59.082	
INVERT LEVEL	57.432	600mm x 600mm COVER LOCATION
PIPE DIAMETERS	150Ø	750mm x 600mm HOLE IN COVER SLAB  DOUBLE STEP ACCESS
MANHOLE SIZE	1.200	
COVER TYPE	D400	150Ø FROM FWIC18
MANHOLE TYPE	1	
MANHOLE DEPTH	1.650	
MH DEPTH CL/SOFFIT OF OUTLET PIPE	1.500	150Ø FROM FWIC7
		Min 325mm
		150Ø TO FW2
		1





	MANHOLE NO.  COORDINATES  COVER LEVEL  INVERT LEVEL  PIPE DIAMETERS  MANHOLE SIZE  COVER TYPE	EXISTING FW E300675.709 N510344.512 57.490 56.140 150Ø EXISTING	750mm x 750mm COVER LOCATION 750mm x 750mm HOLE IN COVER SLAB 150Ø FROM FW2  DOUBLE STEP ACCESS		
	MANHOLE TYPE	4			
	MANHOLE DEPTH	1.350	$M_{600m_{m}}$		
	MH DEPTH CL/SOFFIT OF OUTLET PIPE	T OF 1.200	150Ø TO ADOPTABLE FW SEWER		

1. ALL DIMENSIONS ARE IN MILLIMETRES

2. CONCRETE BENCHING AND SURROUND

SHALL BE PLACED IN SINGLE CONTINUOUS OPERATION FROM TOP OF BASE SLAB TO TOP OF BENCHING AND PIPE SURROUND. 3. CONNECTION INTO MANHOLES

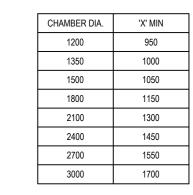
SHALL BE CONSTRUCTED WITH THE SOFFITS AT THE LEVEL UNLESS DETAILED DIFFERENTLY ON CONTRACT DRAWINGS.

4. <u>METALWORK</u> LADDERS, HANDRAILING AND SAFETY CHAIN SHALL BE AS SHOWN ON UU STANDARD DETAIL

5. CONCRETE SURROUND TO MANHOLES

A 150mm SURROUND OF AT LEAST 20N/mm CONCRETE SHALL BE PROVIDED UP TO TOP DESIGN WATER LEVEL. ANY JOINTS SHOULD BE STAGGERED WITH PRECAST CONCRETE

6. MINIMUM LENGTH OF CHANNEL (X MIN)



7. CUT ENDS OF REINFORCED CONCRETE PIPES

SHALL BE TREATED WITH EPOXY RESIN PAINT/MORTAR 8. MANHOLE ACCESSES AND VARIABLE FEATURES (v.f)

REFER TO UU STANDARD STANDARD DETAIL STND/01/013. DOUBLE STEPS SHALL BE PLASTIC ENCAPSULATED CARBON STEEL.

9. <u>COVER AND FRAME</u>

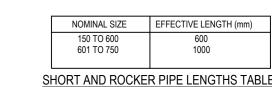
150mm DEEP COVERS ARE TO BE USED IN CATEGORY 1, 2, 3 ROADS. 150mm DEEP COVERS ARE TO BE USED IN CATEGORY 4 ROADS.

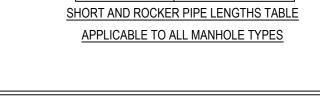
DOUBLE TRIANGULAR COVERS ARE TO BE USED IN CARRIAGEWAY.

ROAD CATEGORY TO BE DESIGNATED BY THE HIGHWAY AUTHORITY. FRAME TO BE SET AS PER SPECIFICATION.

10. <u>CONCRETE</u>

ALL IN SITU CONCRETE TO BE DC-3 OR FND 3 11. ALL LATERAL CONNECTIONS TO BE SOFFIT LEVEL TO THE MAIN CHANNEL





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FLOW DIRECTION

MANHOLE CO-ORDINATES RELATE TO THE INTERSECTION OF MAIN INLET AND OUTLET RUNS

150-225Ø: UPVC PIPES TO BE BSI KITEMARKED AND CERTIFIED TO WIS 4-35-01 & BS/EN13476.
 300-825Ø: CONCRETE PIPES TO BE BSI KITEMARKED, CLASS 120 CONCRETE & CERTIFIED TO BS5911 & 1916.
 900Ø-ONWARDS: COMPOSITE STEEL REINFORCED PIPE (AQUASPIRA) TO BE BSI KITEMARKED & CERTIFIED TO BS/EN13476.

SUBJECT TO WATER AUTHORITY APPROVAL

