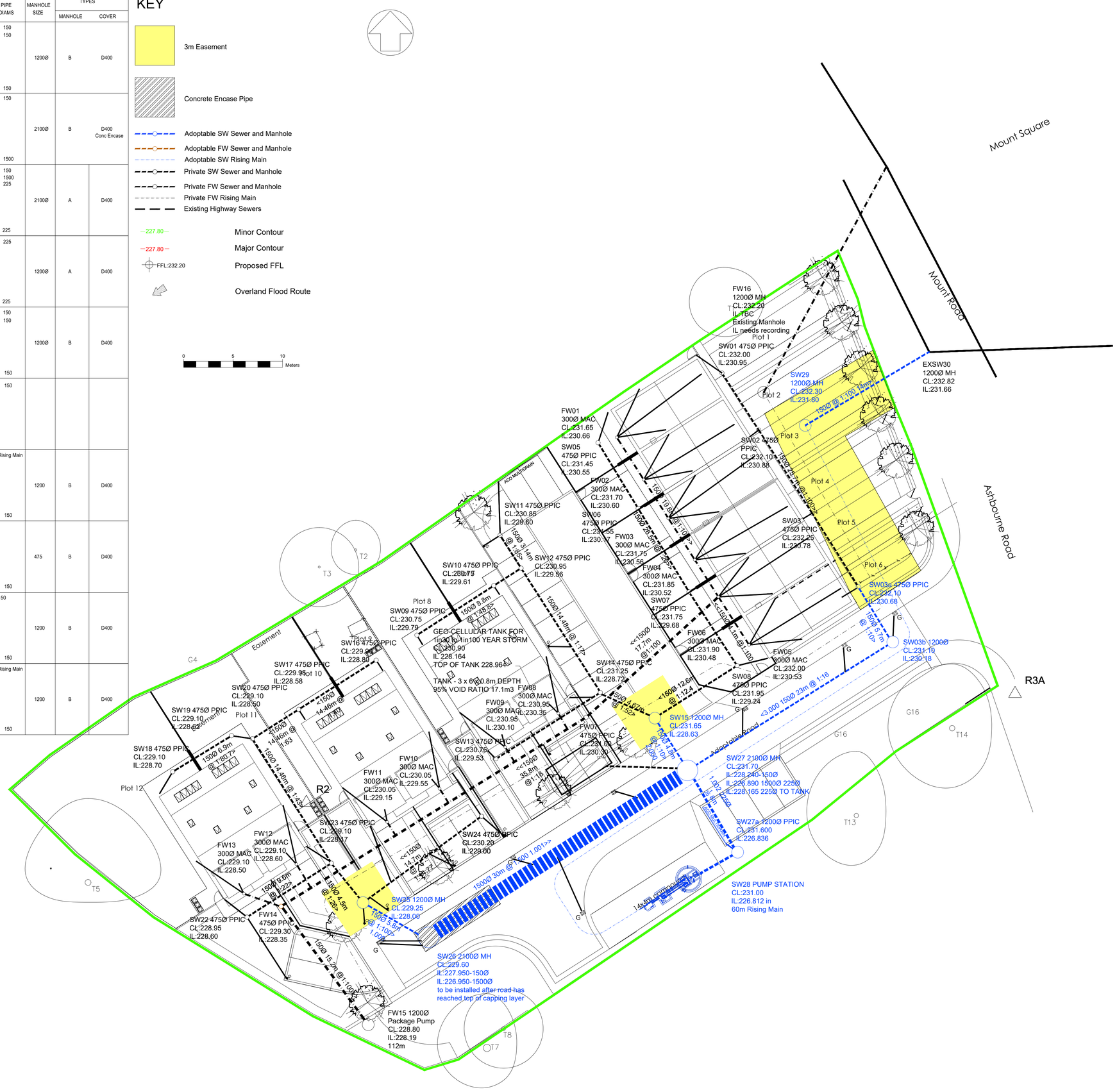
MANHOLE NUMBER / COORDINATES	COVER LEVEL / DEPTH TO SOFFIT	CONNECTS		INVERTS	PIPE DIAMS	MANHOLE SIZE	TYPES: MANHOLE	TYPES: COVER
SW25	229.25	1, 2, 0	1	228.00	150	1200Ø	B	D400
			2	228.00	150			
E. 399482.097	1.1		0	228.00	150			
N. 355875.620								
SW26	229.60	1, 0	1	227.942	150	2100Ø	B	D400 Conc Encase
E. 399488.721	1.15		0	226.950	1500			
N. 355872.099								
SW27	231.70	3, 1, 2, 0	1	228.240	150	2100Ø	A	D400
			2	226.890	1500			
E. 399514.943	4.585		3	228.164	225			
N. 355889.002			0	226.890	225			
SW27a	231.60	1, 0	1	226.836	225	1200Ø	A	D400
E. 399520.025	4.539		0	226.836	225			
N. 355880.718								
SW15	231.65	1, 2, 0	1	228.630	150	1200Ø	B	D400
			2	228.630	150			
E. 399511.647	2.870		0	228.630	150			
N. 355894.288								
SW28 Pump Station	231.00	1, 0	1	226.812	150			
E. 399517.156	TBC		0	TBC				
N. 355879.080								
SW29	232.50	0, 1	1	232.00	Rising Main	1200	B	D400
E. 399526.866	0.35		0	232.00	150			
N. 355923.920								
SW03a	232.10	0, 0				475	B	D400
E. 399532.222	1.27		0	230.68	150			
N. 355907.605								
SW03b	233.10	1, 0	1	230.18	150	1200	B	D400
E. 399535.732	2.77		0	230.18	150			
N. 355902.003								
FW16	232.20	0, 1	1	TBC on survey	Rising Main	1200	B	D400
E. 399522.671	TBC		0	TBC	150			
N. 355927.276								

KEY

- 3m Easement
- Concrete Encase Pipe
- Adoptable SW Sewer and Manhole
- Adoptable FW Sewer and Manhole
- Adoptable SW Rising Main
- Private SW Sewer and Manhole
- Private FW Sewer and Manhole
- Private FW Rising Main
- Existing Highway Sewers
- 227.80 Minor Contour
- 227.80 Major Contour
- FFL:232.20 Proposed FFL
- Overland Flood Route

0 5 10 Meters



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SEVERN TRENT NOTES

1. ALL ADOPTABLE DRAINAGE WORKS SHALL BE IN ACCORDANCE WITH WRC SEWERS FOR ADOPTION 6TH EDITION AND SEVERN TRENT'S GUIDANCE NOTES
2. ALL DRAINAGE OFFERED TO SEVERN TRENT WATER FOR ADOPTION HAS BEEN DESIGNED TO NOT ATTENUATE FLOWS IN EXCESS OF THE 1:30 YEAR RETURN STORM PERIOD.
3. SEWER EASEMENTS AT ANY CHANGE IN WIDTH SHOULD BE 2.5M TO EITHER SIDE OF PIPE FOR PIPE SIZE UP TO 300Ø AND 5M EACH SIDE OF THE CENTRE OF PIPE FOR PIPE SIZES GREATER THAN 300Ø.
4. SEVERN TRENT WATER ADOPTABLE MANHOLE COVER AND FRAME SHALL BE 675X675 DUCTILE IRON TO SEWERS FOR ADOPTION 6TH EDITION, BS 7903 AND BS EN 124, CLASS D400 TO MAINTAIN A CLEAR 600X600 OPENING. MINIMUM FRAME DEPTH SHALL BE 100MM IN RESIDENTIAL CUL-DE-SAC (UNLESS IN BLOCK PAVED AREAS WHERE MINIMUM DEPTH SHALL BE 150MM), 150MM DEEP ELSEWHERE, BEDDED ON DESIGNATION (I) MORTAR TO BS EN 998 PARTS 1 AND 2. APPROVED PACKING MATERIAL MAY BE USED IF REQUIRED. SEVERN TRENT WATER MANHOLE COVERS SHALL BE KITEMARKED AND EMBOSSED FW OR SW AS APPROPRIATE. MANHOLE COVERS AND FRAMES SHALL BE OF NON ROCKING DESIGN WHICH DOES NOT RELY ON USE OF CUSHION INSERTS. MANHOLE COVERS SHALL BE NON-VENTILATING TYPE AND SHALL HAVE CLOSED KEY.
5. LATERAL MANHOLES WITH A DEPTH OF MORE THAN 1.2M FROM COVER TO SOFFIT SHALL HAVE A CHAMBER WITH A MINIMUM INTERNAL OF 450MM, WITH A RESTRICTED ACCESS OPENING OF 350MM FOR SAFETY REASONS.
6. PRECAST CONCRETE MANHOLE RINGS SHALL NOT BE CUT UNDER ANY CIRCUMSTANCES. ALTERNATIVE OPTIONS WILL COMPRISE BUILDING UP CHAMBER WITH INSITU CONCRETE OR BRICKWORK TO THE TOP OF THE PIPE.
7. ALL PIPEWORK WITH LESS THAN 1.2M COVER SHALL HAVE A CONCRETE SURROUND OR SLAB TO ADOPTING WATER COMPANY REQUIREMENTS.
8. FLOW ROUTES NEED TO FACILITATE THE POTENTIAL ROUTE OF FLOOD FLOW IN RAINFALL EVENTS EXCEEDING THE STORM SEWER DESIGN CRITERIA, AS REQUIRED BY WRC SEWERS FOR ADOPTION 6TH EDITION. FLOW ROUTES SHALL BE KEPT CLEAR OF PERMANENT PHYSICAL OBSTRUCTIONS WHICH MAY OBSTRUCT THE FLOW OF SURFACE WATER AND CAUSE FLOODING.
9. SCREEN/GRILL TO BE LOCATED IN LAST MANHOLE TO PREVENT ANY DEBRIS/RUBBLE FROM ENTERING THE EXISTING NETWORK DURING CONSTRUCTION.
10. ALL UNCOVERED AND SHALLOW PIPEWORK TO BE PROTECTED AGAINST CONSTRUCTION TRAFFIC AS PART OF THE CONTRACTORS TEMPORARY WORKS.
11. A SECTION 106 APPLICATION AND APPROVAL IS REQUIRED FROM SEVERN TRENT FOR ALL CONNECTIONS TO THE EXISTING PUBLIC SEWER BEFORE ANY CONNECTION IS MADE.
12. ANY AMENDMENTS TO PIPE MATERIALS THAT MAY BE SUGGESTED BY THE GROUNDWORK CONTRACTOR ONCE TECHNICAL APPROVAL COMPLIANCE IS ISSUED, WILL RESULT IN A DESIGN AMENDMENTS CHARGE (FROM SEVERN TRENT WATER) OR 1% OF THEIR ESTIMATED CONSTRUCTION COST.
13. CATCHPIT CHAMBERS SHALL NOT BE ADOPTED
14. A PLASTIC SEPARATION MEMBRANE IS REQUIRED BETWEEN PIPES AT ALL SEWER CROSSINGS TO ELIMINATE ANY CHANCE OF CROSS CONTAMINATION
15. PIPES OF DIFFERENT DIAMETERS ENTERING MANHOLES SHOULD BE INSTALLED WITH LEVEL SOFFITS.
16. DEMARCATION CHAMBER TO BE PLACED 1m MAX FROM THE BOUNDARY AT TIME OF CONSTRUCTION

No.	Revision	Date	Drwn
D	Amended to suit STW Comments	21.02.19	RT
C	Amended to suit SCC Comments	20.12.18	RT
B	Revised to suit new layout	08.11.18	RT
A	Notes Added	19.06.18	RT
-	TENDER ISSUE	03.04.18	RT

Status

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Client: Bowsall Ltd

Project: Ashbourne Road, Leek

Drawing title: S104 Drainage Layout

Drawn	Chkd	Date	Scale
RT	AD	Mar 18	1:200 @ A1

Contract No.	Drg No.	Revision
17156	C-71	D