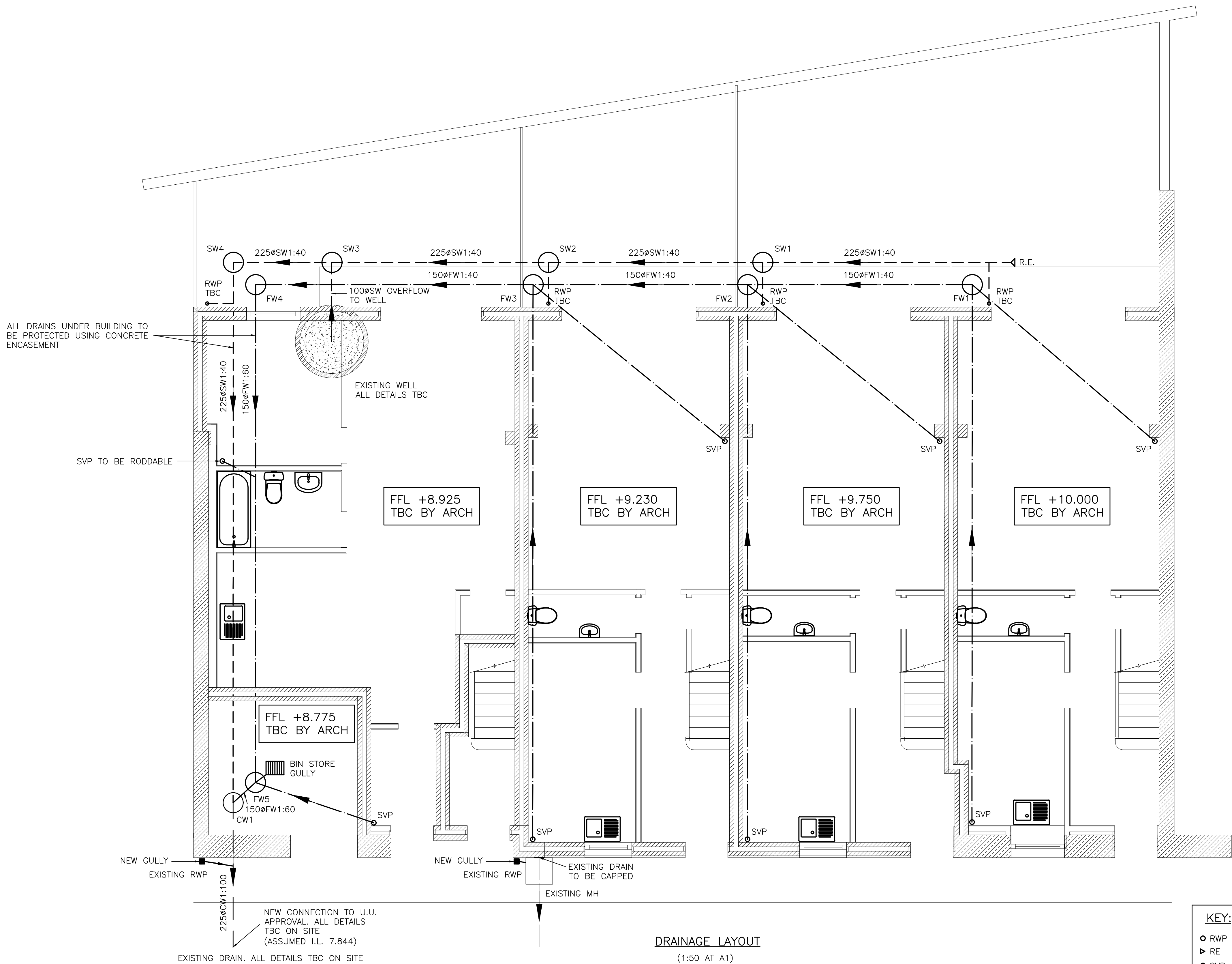




DRAINAGE LAYOUT
(1:50 AT A1)

ALL COVER LEVELS ARE APPROX. & TO BE READ IN CONJUNCTION WITH ARCHITECTS DRAWINGS FOR EXTERNAL LEVELS

ALL DRAINS BENEATH BUILDING TO PROTECTED USING CONCRETE ENCASEMENT

KEY:

- RWP RAIN WATER PIPE
- ▶ RE RODDING EYE
- SVP SOIL VENTILATION PIPE
- SURFACE WATER DRAIN
- FOUL WATER DRAIN
- COMBINED WATER DRAIN

COMBINED WATER MANHOLES					
CHAMBER	COVER LEVEL	INVERT LEVEL	DEPTH	MANHOLE TYPE	COMMENTS
CW1	8.775	7.877	0.898	450mmØ PPIC	150Ø I.L. 7.802

FOUL WATER MANHOLES					
CHAMBER	COVER LEVEL	INVERT LEVEL	DEPTH	MANHOLE TYPE	COMMENTS
FW1	9.850	8.400	1.450	450mmØ PPIC	
FW2	9.600	8.275	1.325	450mmØ PPIC	
FW3	9.080	8.155	0.925	450mmØ PPIC	
FW4	8.775	8.000	0.775	450mmØ PPIC	
FW5	8.775	7.814	0.961	450mmØ PPIC	

SURFACE WATER MANHOLES					
CHAMBER	COVER LEVEL	INVERT LEVEL	DEPTH	MANHOLE TYPE	COMMENTS
SW1	9.600	8.495	1.105	450mmØ PPIC	
SW2	9.080	8.376	0.704	450mmØ PPIC	
SW3	8.775	8.255	0.520	450mmØ PPIC	
SW4	8.775	8.200	0.575	450mmØ PPIC	

DRAINAGE NOTES:

- All work to be in accordance with Sewers for Adoption latest Edition and BS 8000 Pt 14 Code of Practice for below ground drainage.
- The sizes of manholes stated are minimum. If two or more pipes enter the manhole the chamber size must be sufficient to accommodate adequate benching. All pipes built into the manhole invert should be installed with soffits level.
- The Contractor shall give at least one working days notice to the Engineer to allow opportunity to examine any formation or witness any testing.
- All soft spots to be removed from bottom of excavations and to be refilled to formation level with the same material as permanent works which rest in it.
- All concrete and concrete products shall be constructed with sulphate resistance cement.
- Unless noted otherwise all manhole chamber covers to be ductile iron to BS EN 124 D400
- Unless noted otherwise all mortar to be class 1 1:3 cement : sand.
- Cut ends of reinforced concrete pipes are to be treated with epoxy resin paint/mortar.
- Construction joints in concrete surround must not be within 150mm of chamber ring joints.
- All drainage products to be kitemark approved tested.
- Gully gratings shall be end hinged & ductile iron, BS EN 124 Class C250

- ALL SURFACE WATER DRAINS TO BE 100mmØ AT 1:100 FALL U.N.O.
- ALL FOUL WATER DRAINS TO BE 100mmØ AT 1:40 FALL U.N.O.
- ALL INTERNAL DRAINAGE RUNS ARE DIAGRAMATIC & CAN BE ADJUSTED TO SUIT
- ALL EXTERNAL DOORS WITH A LEVEL ACCESS TO HAVE A THRESHOLD DRAIN
- REFER TO ARCHITECTS DRAWNGS FOR LOCATION OF ALL SANITARY FITTINGS
- ALL INTERNAL SVP'S TO HAVE RODDING ACCESS POINT

rev	date	revisions	initials
client ANDREW CHICKEN			
project PARADISE STREET RAMSBOTTOM			
drawing DRAINAGE LAYOUT			
PWA Philip Wright Associates Consulting Structural Engineer 21 Union Street, Ramsbottom, Bury, BLO 9AN Telephone: 07939 547865 Email: info@philipwrightassociates.co.uk			
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