

1. DRAINAGE DESIGN AND CONSTRUCTION IS IN ACCORDANCE WITH SEWERS FOR ADOPITION 7TH EDITION, WELSH MINISTERS STANDARDS AND THE REQUIREMENTS OF THE STATUTORY INSTRUMENTS.
2. ALL ADAPTABLE MATERIALS AND WORKSMANSHIP TO CONFORM TO PART E OF SEWERS FOR ADOPITION 7TH EDITION.
3. ALL SVP, RWP AND BIG CONNECTIONS ARE INDICATIVE AND MUST BE CONFIRMED BY ARCHITECT
4. PIPE GRADIENTS OUT OF BUILDING TO CONNECTING MANHOLE 1E LAID AN 1:40 IN ACCORDANCE WITH PART OF THE 2002 BUILDING REGULATIONS, TABLE 6 ALL INVERTS TO SVP WITHIN 3 STOREY BUILDINGS MUST BE 750mm IN ACCORDANCE WITH BUILDING REGULATIONS.
5. TOLERANCES IN PIPE LAYING TO BE IN ACCORDANCE WITH SEWERS FOR ADOPITION 7TH EDITION CLAUSE 4.5.9
6. FOR PIPES 150-450mm DIA. ALL ROCKER PIPES TO BE IN ACCORDANCE WITH 'SEWERS FOR ADOPITION' 7th EDITION.
7. ENGINEERING BRICKS SHALL NOT CONTAIN FROGS OR HOLES.
8. BRICKWORK TO MANHOLES TO BE ENGLISH BOND
9. WHERE PIPES SURROUNDED IN CONCRETE, FLEXIBILITY TO BE MAINTAINED AT PIPE JOINTS BY THE USE OF SUITABLE COMPRESSIBLE MATERIAL SUCH "FLEXCELL" OR "FIBREBOARD"
10. ALL MANHOLE COVERS AND FRAMES MUST COMPLY WITH BS EN124 AND BE 150mm DEEP TO THE TOP OF THE COVER AND BE 150mm DEEP MANHOLE COVERS IN CAR PARKING AREAS AND DRIVES TO BE GRADE B125. WHILE LANDSCAPED AREAS MAY BE GRADE A15. ALL TO BE 500mm IN ACCORDANCE WITH SECTION PART 14 OF BUILDING REGULATIONS 2002, TABLES 11 & 12.
11. PIPEWORK MATERIALS AS SPECIFIED WITHIN SEWERS FOR ADOPITION 7TH
 - 10a. CLAY PIPES SEE E2 18 SPA 7th
 - 10b. PLASTIC PIPES SEE E2 21 SPA 7th
 - 10c. CONCRETE PIPES SEE E2 16 SPA 7th
12. GRANULITIC BENCHING TO 120 MANHOLES TO BE 40mm THICKNESS MINIMUM.
13. PRECAST CONCRETE CHAMBER RINGS TO BE REINFORCED.
14. THE SLOPE OF BENCHING IN ALL CASES SHOULD BE 1 IN 30.
15. MANHOLES SHALL NOT INCORPORATE DOUBLE SQUARE OR DOUBLE OBLIQUE CHANNEL JUNCTIONS IN THEIR INVERTS.
16. ALL INCOMING PIPES SHALL BE SURROUNDED WITH 150mm of CONCRETE TO THE FACE OF THE TOP FLAR OF THE FIRST FLEXIBLE JOINT AND THE OUTGOING PIPE SHALL ALSO BE SURROUNDED TO WITHIN 50mm OF THE FIRST FLEXIBLE JOINT AND A COMPRESSIBLE FILLED USED AS A FORMER BETWEEN THE CONCRETE SURROUND AND DOWNSTREAM PIPE COLLAR.

17. ALL UNDERGROUND SERVICES TO BE CONFIRMED BY CONTRACTOR PRIOR TO COMMENCEMENT ON SITE. ANY DISCREPANCIES TO BE REPORTED TO ENGINEER.
18. THE MINIMUM DEPTH OF COVER TO THE CROWN OF GRAVITY PIPE WITHOUT PROTECTION SHOULD BE AS FOLLOWS:
 - a) DOMESTIC GARDENS AND DRIVEWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS, 0.35m;
 - b) DOMESTIC DRIVEWAYS, PARKING AREAS AND YARDS WITH HEIGHT REDUCED TO PREVENT ENTRY BY VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 0.9m;
 - c) DOMESTIC DRIVEWAYS, PARKING AREAS AND NARROW STREETS WITH HEIGHT REDUCED TO PREVENT ENTRY BY VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 0.9m;
 - d) DOMESTIC DRIVEWAYS AND PUBLIC OPEN SPACE, 0.9m;
 - e) OTHER HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 1.2m.
19. ROAD GULLIES TO BE TRAPPED FOR CONNECTION TO PROPOSED COMBINED SEWER.
20. NO DEEP OR WIDE ROUTED TREES TO BE PLANTED WITHIN CLOSE PROXIMITY OF THE PROPOSED AND EXISTING PUBLIC SEWER SYSTEM.

The developer must self-vet and certify that the design criteria, material standards and workmanship specifications for the proposed adoptable sewers are in accordance with those set out in "Sewers for Adoption" 7th Edition (SFA 7th), The Welsh Ministers Standards and the requirement of DCWW as the Statutory Sewerage Undertaker.

The Landscaping arrangements & Drainage design conforms to the requirements setout in B3.1.13 of SFA 7th.

Subject to a Section 104 Adoption Agreement being complete, a Section 106 application to connect must be made to DCWW the developer shall give 21 days' notice prior to connection. The works may only be undertaken by an SSIP Health & Safety approved contractor.

9. BRICKWORK TO MANHOLES TO BE ENGLISH BOND.
10. WHERE PIPES SURROUNDED IN CONCRETE, FLEXIBILITY TO BE MAINTAINED. THE PIPES JOINTS SHALL BE COVERED WITH A COMPRESSIBLE MATERIAL (e.g. "FLEXCEL" OR "FIBREBOARD").
11. ALL MANHOLE COVERS AND FRAMES MUST COMPLY WITH BS EN124 COVERS IN ROADS TO BE GRADE D400 AND BE 150mm DEEP. MANHOLE COVERS IN CAR PARKING AREAS AND DRIVES TO BE 225mm DEEP. ALL MANHOLE COVERS MAY BE GRADE A15, ALL TO BE SIZED TO ACCORDANCE WITH PART H OF BUILDING REGULATIONS:2002, TABLES 11 & 12.
12. PIPEWORK MATERIALS AS SPECIFIED WITHIN SPECIFICATIONS FOR ADDON 7th.
 - 10A. CLAY PIPES SEE E2 18 SFA 7th.
 - 10B. PLASTIC PIPES SEE E2 21 SFA 7th.
 - 10C. CONCRETE PIPES SEE E2 16 SFA 7th.
13. GRANULITHIC BENCHING TO MANHOLES TO BE 400mm THICKNESS MINIMUM.
14. PRECAST CONCRETE CHAMBER RINGS TO BE REINFORCED.
15. THE SLOPE OF BENCHING IN ALL CASES SHOULD BE 1 IN 30.
16. MANHOLES SHALL NOT INCORPORATE DOUBLE SQUARE OR DOUBLE OBlique CHAMBER JUNCTIONS IN THEIR INVERTS.
17. ALL INCOMING PIPES SHALL BE SURROUNDED WITH 150mm of CONCRETE TO THE FACE OF THE COLLAR OF THE FIRST FLEXIBLE JOINT. THE OUTGOING PIPES SHALL ALSO BE SURROUNDED TO WITHIN 50mm OF THE FIRST FLEXIBLE JOINT AND A COMPRESSIBLE FILLING TO BE PLACED BETWEEN THE CONCRETE SURROUND AND DOWNSTREAM PIPE COLLAR.

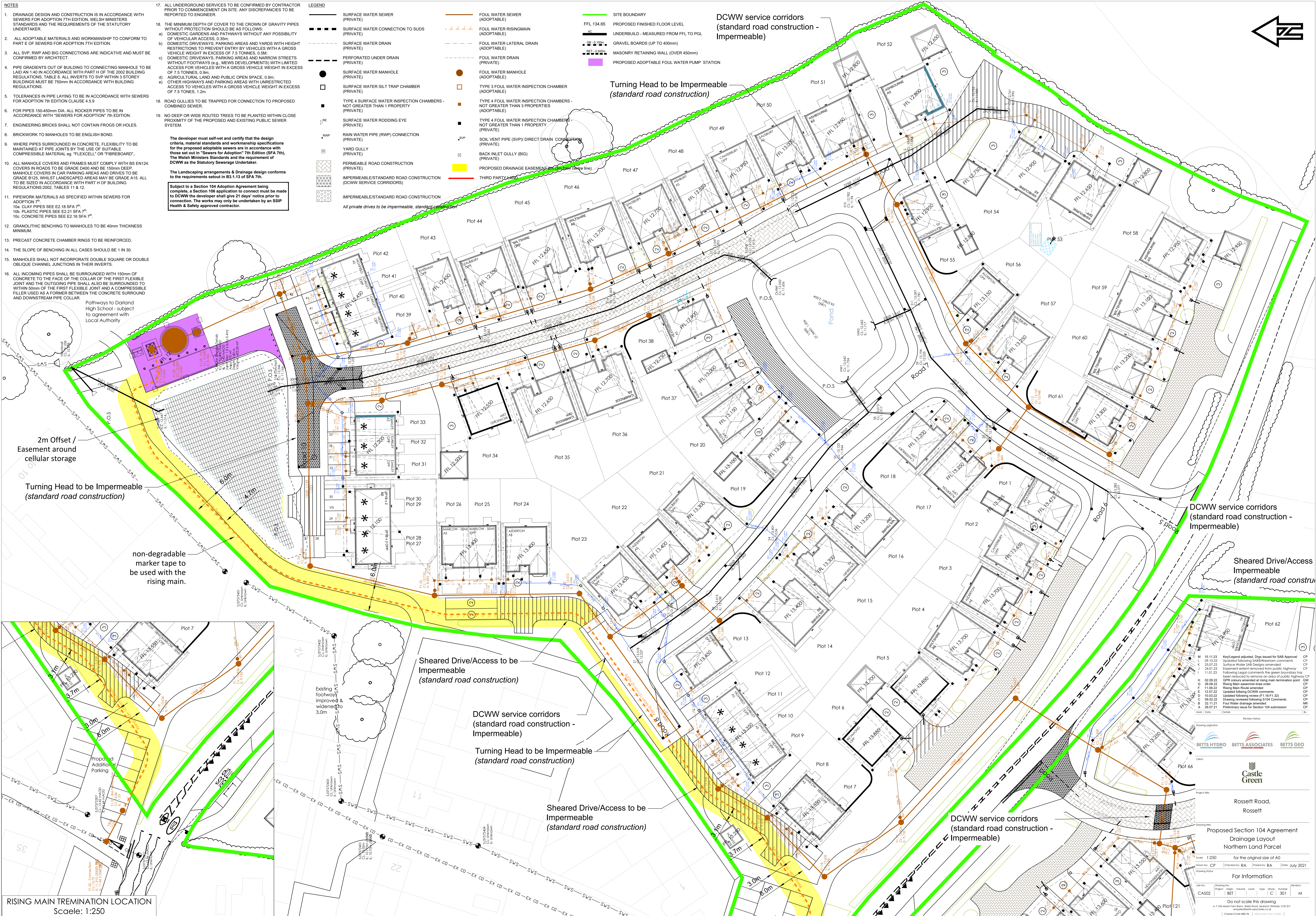
- | LEGEND | |
|---|--|
|  | SURFACE WATER SEWER (PRIVATE) |
|  | SURFACE WATER CONNECTION TO SUDS (PRIVATE) |
|  | SURFACE WATER DRAIN (PRIVATE) |
|  | PERFORATED UNDER DRAIN (PRIVATE) |
|  | SURFACE WATER MANHOLE (PRIVATE) |
|  | SURFACE WATER SILT TRAP CHAMBER (PRIVATE) |
|  | TYPE 4 SURFACE WATER INSPECTION CHAMBERS NOT GREATER THAN 1 PROPERTY (PRIVATE) |
|  | SURFACE WATER RODDING EYE (PRIVATE) |
|  | RAIN WATER PIPE (RWP) CONNECTION (PRIVATE) |
|  | YARD GULLY (PRIVATE) |
|  | PERMEABLE ROAD CONSTRUCTION (PRIVATE) |
|  | IMPERMEABLE/STANDARD ROAD CONSTRUCTION (DCWW SERVICE CORRIDORS) |
|  | IMPERMEABLE/STANDARD ROAD CONSTRUCTION |
- All private drives to be impermeable, standard*

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- FOUL WATER SEWER (ADOPTABLE)
 - - - - - FOUL WATER RISING MAIN (ADOPTABLE)
 - - - - - FOUL WATER LATERAL DRAIN (ADOPTABLE)
 - - - - - FOUL WATER DRAIN (PRIVATE)
 ● FOUL WATER MANHOLE (ADOPTABLE)
 □ TYPE 3 FOUL WATER INSPECTION CHAMBER (ADOPTABLE)
 ■ TYPE 4 FOUL WATER INSPECTION CHAMBERS - NOT GREATER THAN 3 PROPERTIES (ADOPTABLE)
 ■ TYPE 4 FOUL WATER INSPECTION CHAMBERS - NOT GREATER THAN 1 PROPERTY (PRIVATE)
 SVP SOIL VENT PIPE (SVP) DIRECT DRAIN CONNECTION (PRIVATE)
 ☒ BACK INLET GULLY (BIG) (PRIVATE)
 ■ PROPOSED DRAINAGE EASEMENT FROM THIRD PARTY (ADOPTABLE)
 — THIRD PARTY LOTS

- [illegible]

DCWW service corridors
(standard road construction -
Impermeable)

Turning Head to be Impermeable
(standard road construction)



RISING MAIN TERMINATION LOCATION
 Scale: 1:250

DCWW service corridors
(standard road construction -
Impermeable)

Sheared Drive/Access
Impermeable
(standard road construction)

DCWW service corridors
(standard road construction -
Impermeable)

Rossett Road,
Rossett

Drawing title: Proposed Section 104 Agreement
Drainage Layout
Northern Land Parcel

Drawn by: CP | Checked by: RA | Passed by: RA | Date: Jul
Drawing status: For Information

CAS02	BET	C	301
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Do not scale this drawing

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