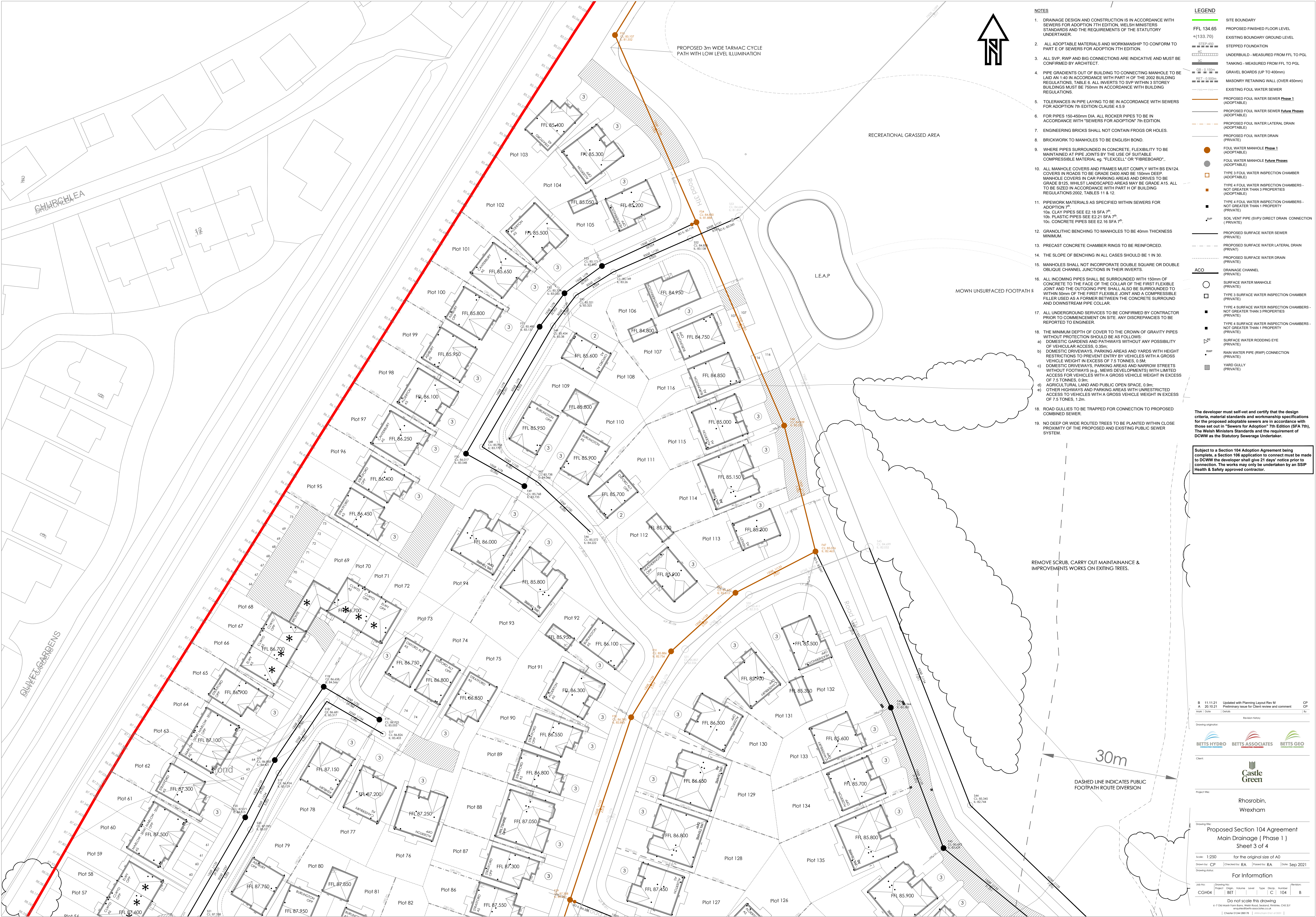




NOTES

1. DRAINAGE DESIGN AND CONSTRUCTION IS IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH EDITION, WELSH MINISTERS STANDARDS AND THE REQUIREMENTS OF THE STATUTORY UNDERTAKER.
2. ALL ADAPTABLE MATERIALS AND WORKMANSHIP TO CONFORM TO PART E OF SEWERS FOR ADOPTION 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 TO BE LAID AN 1:40 IN ACCORDANCE WITH PART H 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 ADOPTION 7th EDITION CLAUSE 4.5.9
6. FOR PIPES 150-450mm DIA. ALL ROCKER PIPES TO BE IN ACCORDANCE WITH "SEWERS FOR ADOPTION" 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 eg. "FLEXCEL" OR "FIBREBOARD".
10. 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 GRADE B125, WHILST LANDSCAPED AREAS MAY BE GRADE A15. ALL TO BE SIZED IN ACCORDANCE WITH PART H OF BUILDING REGULATIONS 2002, TABLES 11 & 12.
11. PIPEWORK MATERIALS AS SPECIFIED WITHIN SEWERS FOR ADOPTION 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
12. GRANULITHIC BENCHING TO 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 COLLAR OF THE FIRST FLEXIBLE JOINT AND THE OUTGOING PIPE SHALL ALSO BE SURROUNDED TO WITHIN 50mm OF THE FIRST FLEXIBLE JOINT AND A COMPRESSIBLE FILLER 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 PIPES WITHOUT PROTECTION SHOULD BE AS FOLLOWS:  
a) DOMESTIC GARDENS AND PATHWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS, 0.35m;  
b) DOMESTIC DRIVEWAYS, PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 0.5m;  
c) DOMESTIC DRIVEWAYS, PARKING AREAS AND NARROW STREETS WITHOUT FOOTWAYS (e.g. MEWS DEVELOPMENTS) WITH LIMITED ACCESS FOR VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 0.9m;  
d) AGRICULTURAL LAND 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.

LEGEND

- SITE BOUNDARY
- PROPOSED FINISHED FLOOR LEVEL
- EXISTING BOUNDARY FLOOR LEVEL
- STEPPED FOUNDATION
- UNDERBUILD - MEASURED FROM FFL TO PGL
- TANKING - MEASURED FROM FFL TO PGL
- GRAVEL BOARDS (UP TO 400mm)
- MASONRY RETAINING WALL (OVER 450mm)
- EXISTING FOUL WATER SEWER
- PROPOSED FOUL WATER SEWER Phase 1 (ADOPTABLE)
- PROPOSED FOUL WATER SEWER Future Phases (ADOPTABLE)
- PROPOSED FOUL WATER LATERAL DRAIN (ADOPTABLE)
- PROPOSED FOUL WATER DRAIN (PRIVATE)
- FOUL WATER MANHOLE Phase 1 (ADOPTABLE)
- FOUL WATER MANHOLE Future Phases (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)
- SOL VENT PIPE (SVP) DIRECT DRAIN CONNECTION (PRIVATE)
- PROPOSED SURFACE WATER SEWER (PRIVATE)
- PROPOSED SURFACE WATER LATERAL DRAIN (PRIVATE)
- PROPOSED SURFACE WATER DRAIN (PRIVATE)
- ACO
- DRAINAGE CHANNEL (PRIVATE)
- SURFACE WATER MANHOLE (PRIVATE)
- TYPE 3 SURFACE WATER INSPECTION CHAMBER (PRIVATE)
- TYPE 4 SURFACE WATER INSPECTION CHAMBERS - NOT GREATER THAN 3 PROPERTIES (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)

The developer must self-verify 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.

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 SSP Health & Safety approved contractor.

B 11.11.21  
A 20.10.21  
Main: Drawn  
Details

Updated with Planning Layout Rev M  
Preliminary Issue for Client review and comment  
Revision history

CP  
CP  
By

Drawing originator:  
Client:  
Project title:

BETTS HYDRO  
BETTS ASSOCIATES  
BETTS GEO

Castle Green

Rhosabin, Wrexham

Drawing file:  
Scale: 1:250  
Drawn by: CP  
Drawing status:

Proposed Section 104 Agreement  
Main Drainage ( Phase 1 )  
Sheet 3 of 4  
for the original size of A0  
Checked by: RA  
Issued by: RA  
Date: Sep 2021  
For Information

Job No:  
CGH04

Drawing No:  
BET

Project:  
BET

Design:  
BET

Volume:  
1

Level:  
1

Type:  
C

Disc:  
104

Number:  
B

Revision:

Do not scale this drawing

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27 Old Main Farm Barn, Main Road, Seddon, Flintshire, CH12 2JY  
www.castlegreen.co.uk  
| Chester 01244 288178 | Wrexham 01938 413301