DO NOT SCALE

S311
Geocellular attenuation tank providing storage for a 100yr + 45% CC storm event (Non-return valve at attenuation connection - Overflow pipe connection at 30yr Storm level) 98m² x 1.6m deep Aquacell 'Prime' or similar approved

S311 - TANK 9
IL:21.761
Overflow IL:23.100

S327 - TANK 12
IL:21.420
Overflow IL:23.100

S327
Geocellular attenuation tank providing storage for a 100yr + 45% CC storm event (Non-return valve at attenuation connection - Overflow pipe connection at 30yr Storm level) 84m² x 1.6m deep Aquacell 'Prime' or similar approved

S316
Geocellular attenuation tank providing storage for a 100yr + 45% CC storm event (Non-return valve at attenuation connection - Overflow pipe connection at 30yr Storm level) 210m² x 1.6m deep Aquacell 'Prime' or similar approved

S316 - TANK 10
IL:21.254
Overflow IL:23.100

S317
Geocellular attenuation tank providing storage for a 100yr + 45% CC storm event (Non-return valve at attenuation connection - Overflow pipe connection at 30yr Storm level) 210m² x 1.6m deep Aquacell 'Prime' or similar approved

S317 - TANK 11
IL:21.133
Overflow IL:23.100

TANK 9
TANK 10
TANK 11
TANK 12

Electricity Sub Station

CHERRYFIELD DRIVE

MH 4207
CL:24.01
IL:21.71

MH 3101
CL:24.33
IL:21.54

MH 3101
CL:24.42
IL:SEIZED

MH 3103
CL:25.14
IL:21.31

MH 3105
CL:25.26
IL:20.72

MH 1001
CL:23.14
IL:???

MH 1002
CL:23.39
IL:???

MH 1003
CL:23.58
IL:???

MH 2001
CL:23.95
IL:20.90

MH 2003
CL 24.35
IL:SEIZED

MH 2004
CL 24.31
IL:SEIZED

MH 3004
CL 25.35
IL 21.03

MH 3003
CL 25.30
IL:SEIZED

Connection to existing 225Ø public foul sewer subject to United Utilities S104 Approval. IL to be confirmed.

Connection to existing 225Ø public foul sewer subject to United Utilities S104 Approval. IL to be confirmed.

Connection to existing 450Ø public surface water sewer subject to United Utilities S104 Approval. IL to be confirmed.

Less than 300mm clearance to cross under existing 225Ø foul sewer. IL to be confirmed be confirmed by client. Site levels may need to be lifted approx 500mm-1000mm to cross over foul.

Connection to existing 225Ø public foul sewer subject to United Utilities S104 Approval. IL to be confirmed.

Additional drainage survey work required to determine levels and confirmation of no clashes

S335
(2.1 Dia flow control manhole)
Hydrobrake Optimum
Flow Regulator
MD-SHE-0192-2500-2850-2500
Restricted to:
25 l/s @ 2.85m design head
Orifice size = 192mm

Notes

1. Setting out shall be undertaken using only the information given. Distances should not be scaled from this drawing.
2. All sewers shall be constructed in accordance with Design and Construction Guidance (DCG) Standards and United Utilities Details & Guidelines.
3. The minimum gravity pipe diameter under adoptable highways shall be 150mm
4. It is the responsibility of the Contractor to verify all information given with regards to existing services and drainage connections etc. prior to commencing the works. The rates shall include for hand dig around services where necessary. The Contractor shall adhere to the CDM Regulations at all times
5. The outsides of all sewers shall be a minimum of 1.0m from kerb lines and the outside of manholes shall be a minimum of 0.5m from kerb lines
6. Existing flows in watercourses, sewers and land drains shall be maintained at all times
7. Only trained personnel shall be permitted to enter confined spaces
8. All materials to bear the relevant B.S. Kitemark and comply fully with the specifications. All concrete & concrete products must use Sulphate resistant cement to withstand Class 3 condition (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur).
9. All opening notices etc. as required under Highways Acts etc. are to be obtained prior to commencement of works. All works are to be inspected by L.A., NHBC or the Network Operator as applicable.
10. Where "Structured Wall" UPVC pipes (or similar approved) are used in adoptable drainage they shall be handled and laid in accordance with the manufacturers instructions and will be subject to post installation deformation testing prior to adoption.
 A Class S Bed and Surround must be used for "Structured Wall" pipes
11. Trench backfill in highways to within 1m of highway shall, as directed by the Highway Authority be a suitable granular material all in accordance with Design and Construction Guidance (DCG) Standards.
12. Slab levels shall not be varied without reference to the Engineer for guidance.
13. Pipes have not been designed to accommodate construction traffic loading. The contractor is responsible for providing adequate protection to the pipes during construction.

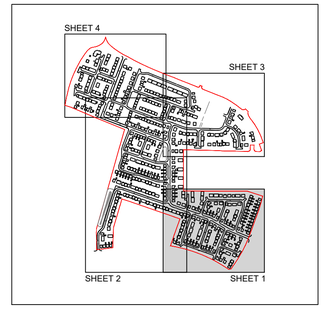
0 5 10 15 20 25 30 35 40 45 50
SCALEBAR (m)

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LEGEND

Existing
- Existing Surface Water Sewer
- Existing Foul Sewer

Proposed
- Proposed Surface Water Sewer
- Proposed Foul Water Sewer
- Flow Control Manhole
- Highway Gully
- Easement
- Proposed Slab Level (FFL 17.40)
- Adoptable SUDs Feature
- Site Boundary
- Offline attenuation (Cellular crates)



KEY PLAN

Design based on Layouts:
Cherryfield Drive, Kirkby. Planning Layout (South Parcel)
Dwg No. 203004, Dated 11 March 2024
Rev: P03

Cherryfield Drive, Kirkby. Planning Layout (North Parcel)
Dwg No. 203005, Dated 11 March 2024
Rev: P03

Grid/Level datum based on Topos:
Cherryfield Drive, Kirkby. Topographical Land Survey.
Dwg No. DWH.TS.04 Sheets 1 to 3, Dated 27.04.21
Rev: -

Topographical Land Survey.
Former All Saints School Cherryfield Drive, Knowsley.
Dwg No. A0 14F063/001 Sheets 1 & 2, Dated July '14
Rev: -

Coopers Drawing List:

7778 / 01	Proposed S104 Drainage Layout
7778 / 02	Proposed Highway Setting Out
7778 / 03	Proposed Highway Layout
7778 / 04	Proposed Highway and Drainage Longsections
7778 / 05	Highway Construction Details
7778 / 06	Proposed Surface Finishes
7778 / 07	S38 Agreement Plan
7778 / 08	External Works Layout
7778 / 09	Private Drainage Layout
7778 / 10	Private Drainage Construction Details
7778 / 11	Manhole Schedules
7778 / 12	Flow Control Manhole Details
7778 / 13	Surface Water Catchment Areas
7778 / 14	Surface Water Attenuation Details
7778 / 15	Proposed Cut and Fill Earthworks
7778 / 16	Plot Setting Out
7778 / 17	Manhole Connection Plan

TENDER

Rev.	Date	Revision	By	Appd.
B	21.10.25	Updated to show latest Planninig Layout	PJN	JAR
A	13.08.25	Laterals added to DWN parcel	PJN	JAR

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Project
CHERRYFIELD DRIVE,
KIRKBY.

Title
Proposed S104 Drainage Layout
Sheet 1 of 4

DRAWING NUMBER	SCALE at A1	1:100	
7778 / 01-1	DATE	28.04.25	REVISION B
	DRAWN	JAR	
	CHECKED	AJ	