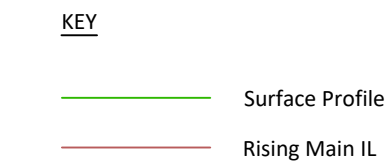


Chainage 1370m is to the site boundary at the substation by Queensway.
Rising main is continued on drawing 02554-S-117 upto the outfall location

- NOTES**
- These drawings have been produced with reference to the CDM Regulations 2015. Please note that these are preliminary phase drawings and should be subject to further design risk management as required in accordance with Regulation 9.
- Drawings identified on the DRA / drawings are based on the information available at the time of design.
- Any services information indicated on PIA drawings is obtained from third parties, and is given for guidance only. The exact location of any services will need to be verified by the client / contractor before commencing works on site.
- THIS DRAWING IS ISSUED AS CONSTRUCTION OR CONTRACT PURPOSES ONLY. NO INFORMATION SHOWN ON THIS DRAWING IS APPROVED FOR CONSTRUCTION BY THE ADOPTING AUTHORITY AND AS SUCH ANY WORKS UNDERTAKEN TO THESE DRAWINGS ARE SOLELY AT THE CLIENT'S RISK. REQUESTED FOR QUOTE BY AND FOR ABBOTT CONSTRUCTION LIMITED IN RESPECT OF ABORTIVE WORKS. PIA ACCEPTS NO LIABILITY FOR ANY ABORTIVE WORKS UNDERTAKEN.**

- Minimum radius for laying black HDPE pipe is 25 x rising main O.D.
- Thrust blocks to be installed on any tight bend.
- Forces to be countered to be not less than 22.5', each bend to be separated by 1m straight
- In verge minimum cover to top of pipe = 0.9m. In carriageways and access ways minimum cover = 1.2m, everywhere else minimum cover = 1.5m.
- The route of rising main shall be marked, where practicable, every change of direction by approved concrete marker posts. The words 'pumped sewer' and depth to top of pipe in meters should be marked on posts.
- Where a manhole tape (TerraSeal Sentry Line Detectable 620 or similar approved) shall be laid 300mm above the top of the pipe. The tape shall incorporate a trace wire which shall be brought to the surface at every marker post (or approx 250m) and connected to a cable to the manhole chamber. The tape shall be terminated with a 1m of wire coiled inside chamber, entry bring through a sealed duct 300mm below F.G.L. At discharge point marker tape should be terminated as follows:-
- Rising main fittings to chambers to be ductile iron. Rising main pipework to be (B.M. HDPE, size as noted on sections.
- On gravity portion of (B.M.) pipeline, it to be butt-fusion welded end-to-end during installation.
- Departure from the design level of any point on the pipeline shall not exceed 300mm, excess of this will cause adverse hydraulic effect.
- Where necessary, in accordance with 'Sewerage service guidance - Appendix C - DCG 2020' and the Adopting Water Authority's recommendations. All testing shall be carried out as described in 'Sewerage service guidance - Appendix C - DCG 2020'.
- Consult pipe laying and proprietary construction details
- All works in vicinity of trees to be conducted as per the guidelines laid down in BS5837 'Trees in relation to construction'
- Any 'Statutory Undertakers' apparatus shown on these drawings should be taken as a guide, care should be taken when excavating
- All adoptable drainage must be laid in accordance with 'Sewerage service guidance - Appendix C - DCG 2020', together with the Sewerage Undertaker's requirements.



PSS Rising main gradient change points		
Chainage	Chamber	IL
0m	PSS	5.15
150m		4.60
185m	Washout B1	4.20
420m		4.70
610m	AI Valve B2	5.19
814m	Washout B3	5.37
1217m	AI Valve B4	6.50
1339m		5.58
1367m (120m)	Washout B5	5.58
1587m (220m)	AI Valve B6	5.90
1637m (270m)		5.65
1617m (310m)		5.55
1692m (320m)	Washout B7	5.00
1737m (370m)		4.42
1752m (385m)		4.20
1852m (485m)	AI Valve B8	5.80
1937m (570m)		5.30
1959m (598m)	Washout B9	5.30
1992m (625m)		4.00
2017m (650m)		5.00
2030m	Outfall MH	5.90

Values in () are from offset line section

C7	24.03.24	RM Profile updated to latest ground levels and revised outfall position	DMcC
C6	23.06.22	Rising main vertical profile updated	MS
C5	29.04.22	Construction	JP
A4	01.04.22	Rising main size noted	DMcC
A3	15.02.22	Air Valve Chamber 3 moved to chainage 415m	DMcC
A2	30/09/21	Contract Issue	GH
A1	10/09/21	Long Section updated following relocation of Pumping Station 5	GH



St. Modwen Developments

Llanwern
Newport

DRAWING TITLE

Pumping Station 5
Rising Main
Long Sections (On-Site)

DRAWING ISSUE STATUS

CONSTRUCTION

CONSTRUCTION

PJA JOB No.	SUB-CODE	DRAWING NO.	REVISION
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02554 - S - 112 - C7

02554 - 3 - 112 - C7

Revision Letter : P - Prelim / A - Approval / T - Tender / C - Construction

BIM DRAWING REFERENCE

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SCALE	DRAWN	REVIEWED	DATE
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SCALE	DRAWN	REVIEWED	DATE
AI@1:500	GH	DMcC	05/12/19

AI@1.500	GH	DI-ICC	05.12.19
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