Notes:

- For any discrepancies found please consult with design office and refer to Irish Water STD-W-13 for backfill and bedding detail.
- Service layout distances to comply with Irish Water Detail STD-W-11
- Air valve and hydrants covers, where located in grass areas, shall be surrounded by a concrete plinth, 200mm all round and 100mm deep formed with C20/25 concrete, 20mm aggregate size, bedded in Clause 804 material. The plinth shall incorporate mild steel reinforcement links and shall have a bull-nose finish around its external perimeter. See Section 3.18 of Water Code of Practice for further details.
- All pipe connections to units to be a minimum of 25mm O.D. in accordance to Irish Water Code of Practice Section 3.7.

Legend:

Symbol	Description
(solid blue line)	Proposed Watermain (100mm Internal Ø HDPE)
(dashed blue line)	Proposed 25mm outer Ø PE-80 Water Connection to Private Property (Refer to STD-W-01 & STD-W-03 Irish Water: Water Infrastructure Standard Details)
(blue box)	Proposed Boundary Box (Refer to STD-W-03 Irish Water: Water Infrastructure Standard Details)
M.E	Proposed Electronic Bulk flow meter with a SMS/GRPS telemetry data logger located in an adjoining kiosk. (Refer to STD-W-26 & STD-W-36 Irish Water: Irish Water Infrastructure Standard Details)
A.V	Proposed Air Valve (Refer to STD-W-20 to STD-W-23 & STD-W-32 Irish Water: Irish Water Infrastructure Standard Details). For marker posts refer to STD-W-27 Irish Water: Water Infrastructure Standard Details.
(sluice valve symbol)	Proposed Sluice Valve (Refer to STD-W-04 to STD-W-10 & STD-W-14 to STD-W-15 Irish Water: Water Infrastructure Standard Details). For marker posts refer to STD-W-27 Irish Water: Water Infrastructure Standard Details
H	Proposed Fire Hydrant (Refer to STD-W-18 to STD-W-19 Irish Water: Water Infrastructure Standard Details). For marker posts refer to STD-W-27 Irish Water: Water Infrastructure Standard Details
Sc.V	Proposed Scour Valve (Refer to STD-W-30 & STD-W-32 Irish Water: Water Infrastructure Standard Details). For marker posts refer to STD-W-27 Irish Water: Water Infrastructure Standard Details
(green hatched box)	Connection Point (Refer STD-W-05 Irish Water: Water Infrastructure Standard Details)
(black line)	Existing Watermain
(red line)	Site Boundary

Rev	By	Date	Description
05	FOS	30.10.25	Revised design as per KJ comments
04	FOS	15.10.25	Revised design post Section 32 comments
03	DA	08.04.25	Layout Updated
02	DA	15.01'25	Layout Updated
01	DA	18.09'24	Scour Valves Added to low points

Drawing Status: PLANNING

Project Title: Ballinacurra Mill LRD.

Drawing Title: Watermain Layout 1 of 3

Client: Ballinacurra Project Limited Partnership

M.H.L & Associates Ltd.
Consulting Engineers
Unit 1B, The Atrium, Blackpool, Cork
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Designed: FOS	Drawn: FOS	Checked: KM
Scale: 1:250 @ A1, 1:500 @ A3	Date: Oct 2025	
Job No: 23072HD	Drawing No: 23072HD-WM-P01	Revision: 05

Notes:

- For any discrepancies found please consult with design office and refer to Irish Water STD-W-13 for backfill and bedding detail.
- Service layout distances to comply with Irish Water Detail STD-W-11
- Air valve and hydrants covers, where located in grass areas, shall be surrounded by a concrete plinth, 200mm all round and 100mm deep formed with C20/25 concrete, 20mm aggregate size, bedded in Clause 804 material. The plinth shall incorporate mild steel reinforcement links and shall have a bull-nose finish around its external perimeter. See Section 3.18 of Water Code of Practice for further details.
- All pipe connections to units to be a minimum of 25mm O.D. in accordance to Irish Water Code of Practice Section 3.7.

Legend:

- Proposed Watermain (100mm Internal Ø HDPE)
- Proposed 25mm outer Ø PE-80 Water Connection to Private Property (Refer to STD-W-01 & STD-W-03 Irish Water: Water Infrastructure Standard Details)
- Proposed Boundary Box (Refer to STD-W-03 Irish Water: Water Infrastructure Standard Details)
- M.E — Proposed Electronic Bulk flow meter with a SMS/GRPS telemetry data logger located in an adjoining kiosk. (Refer to STD-W-26 & STD-W-36 Irish Water: Irish Water Infrastructure Standard Details)
- A.V — Proposed Air Valve (Refer to STD-W-20 to STD-W-23 & STD-W-32 Irish Water: Irish Water Infrastructure Standard Details). For marker posts refer to STD-W-27 Irish Water: Water Infrastructure Standard Details.
- Proposed Sluice Valve (Refer to STD-W-04 to STD-W-10 & STD-W-14 to STD-W-15 Irish Water: Water Infrastructure Standard Details). For marker posts refer to STD-W-27 Irish Water: Water Infrastructure Standard Details
- Proposed Fire Hydrant (Refer to STD-W-18 to STD-W-19 Irish Water: Water Infrastructure Standard Details). For marker posts refer to STD-W-27 Irish Water: Water Infrastructure Standard Details
- Scr.V — Proposed Scour Valve (Refer to STD-W-30 & STD-W-32 Irish Water: Water Infrastructure Standard Details). For marker posts refer to STD-W-27 Irish Water: Water Infrastructure Standard Details
- Site Boundary

Rev	By	Date	Description
06	FOS	30.10.25	Revised design as per KJ comments
05	FOS	17.10.25	Revised design post Section 32 comments
04	DA	08.04.25	Layout Updated
03	DA	15.01'25	Layout Updated
02	DA	18.09'24	Scour Valves Added to low points
01	DA	25.04'24	Issued for IW Design Acceptance

Drawing Status: PLANNING

Project Title: Ballinacurra Mill LRD.

Drawing Title: Watermain Layout 2 of 3

Client: Ballinacurra Project Limited Partnership

M.H.L & Associates Ltd.
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Designed:	Drawn:	Checked:
DA	DA	KM

Scale:	Date:
1:250 @ A1 1:500 @ A3	Oct 2025

Job No:	Drawing No:	Revision:
23072HD	23072HD-WM-P02	06

Notes:

- For any discrepancies found please consult with design office and refer to Irish Water STD-W-13 for backfill and bedding detail.
- Service layout distances to comply with Irish Water Detail STD-W-11
- Air valve and hydrants covers, where located in grass areas, shall be surrounded by a concrete plinth, 200mm all round and 100mm deep formed with C20/25 concrete, 20mm aggregate size, bedded in Clause 804 material. The plinth shall incorporate mild steel reinforcement links and shall have a bull-nose finish around its external perimeter. See Section 3.18 of Water Code of Practice for further details.
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Legend:

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- Proposed 25mm outer Ø PE-80 Water Connection to Private Property (Refer to STD-W-01 & STD-W-03 Irish Water: Water Infrastructure Standard Details)
- Proposed Boundary Box (Refer to STD-W-03 Irish Water: Water Infrastructure Standard Details)
- M.E — Proposed Electronic Bulk flow meter with a SMS/GRPS telemetry data logger located in an adjoining kiosk. (Refer to STD-W-26 & STD-W-36 Irish Water: Irish Water Infrastructure Standard Details)
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- Proposed Sluice Valve (Refer to STD-W-04 to STD-W-10 & STD-W-14 to STD-W-15 Irish Water: Water Infrastructure Standard Details). For marker posts refer to STD-W-27 Irish Water: Water Infrastructure Standard Details
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- Scr.V — Proposed Scour Valve (Refer to STD-W-30 & STD-W-32 Irish Water: Water Infrastructure Standard Details). For marker posts refer to STD-W-27 Irish Water: Water Infrastructure Standard Details
- Connection Point (Refer STD-W-05 Irish Water: Water Infrastructure Standard Details)
- Existing Watermain
- Site Boundary

Rev	By	Date	Description
06	FOS	30.10.25	Revised design as per KJ comments
05	FOS	17.10.25	Revised design post Section 32 comments
04	DA	08.04.25	Layout Updated
03	DA	15.01'25	Layout Updated
02	DA	18.09'24	Scour Valves Added to low points
01	DA	25.04'24	Issued for IW Design Acceptance

Drawing Status: PLANNING

Project Title: Ballinacurra Mill LRD.

Drawing Title: Watermain Layout 3 of 3

Client: Ballinacurra Project Limited Partnership

M.H.L & Associates Ltd.
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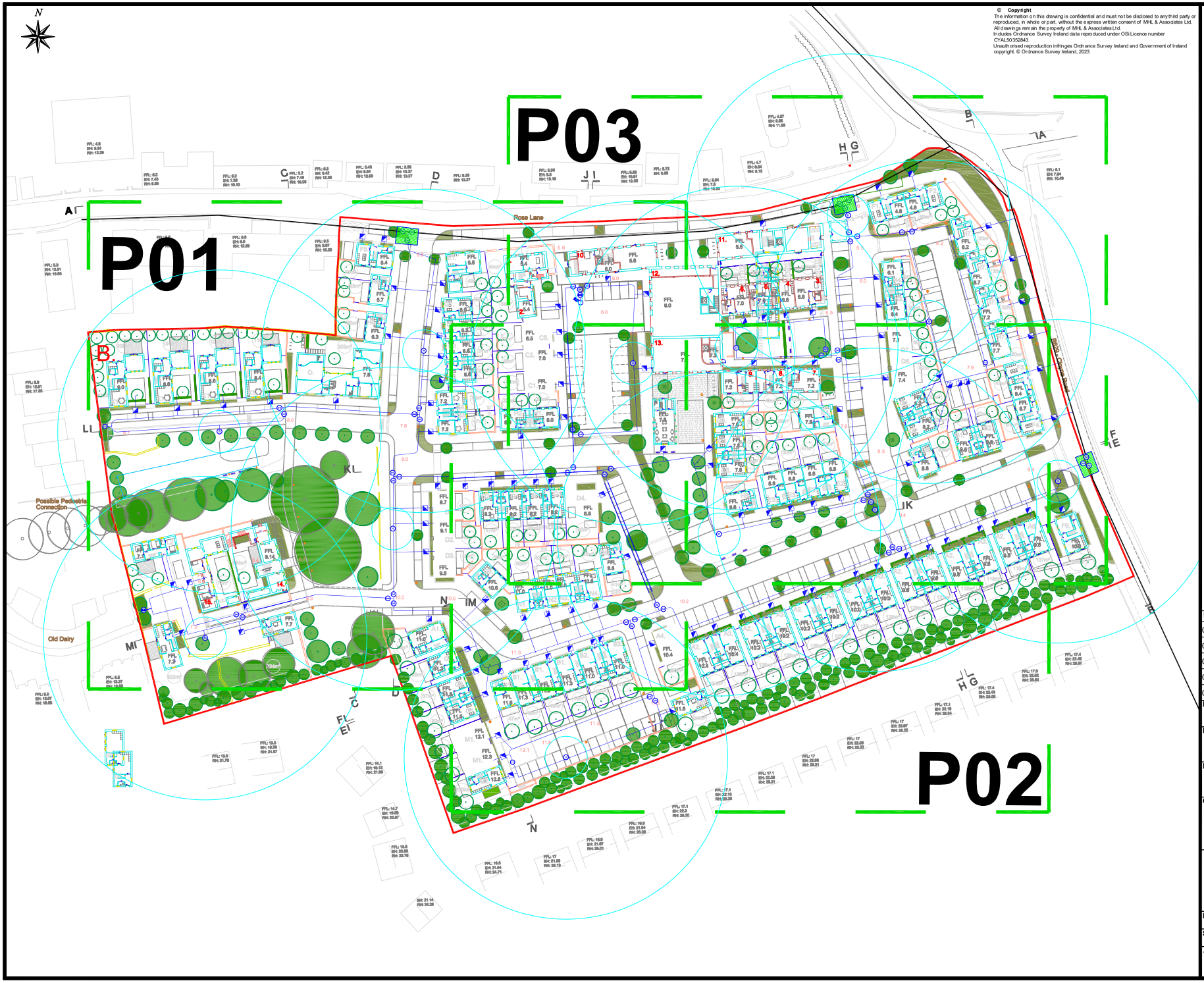
E-Mail:info@mhl.ie

Designed:	Drawn:	Checked:
DA	DA	KM

Scale:	Date:
1:250 @ A1 1:500 @ A3	Oct 2025

Job No:	Drawing No:	Revision:
23072HD	23072HD-WM-P03	06



Notes:

- For any discrepancies found please consult with design office and refer to Irish Water STD-W-13 for backfill and bedding detail.
- Service layout distances to comply with Irish Water Detail STD-W-11
- Air valve and hydrants covers, where located in grass areas, shall be surrounded by a concrete plinth, 200mm all round and 100mm deep formed with C20/25 concrete, 20mm aggregate size, bedded in Clause 804 material. The plinth shall incorporate mild steel reinforcement links and shall have a bull-nose finish around its external perimeter. See Section 3.18 of Water Code of Practice for further details.
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Legend:

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- Proposed 25mm outer Ø PE-80 Water Connection to Private Property (Refer to STD-W-01 & STD-W-03 Irish Water: Water Infrastructure Standard Details)
- Proposed Boundary Box (Refer to STD-W-03 Irish Water: Water Infrastructure Standard Details)
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- Proposed Fire Hydrant (Refer to STD-W-18 to STD-W-19 Irish Water: Water Infrastructure Standard Details). For marker posts refer to STD-W-27 Irish Water: Water Infrastructure Standard Details
- Proposed Scour Valve (Refer to STD-W-30 & STD-W-32 Irish Water: Water Infrastructure Standard Details). For marker posts refer to STD-W-27 Irish Water: Water Infrastructure Standard Details
- Connection Point (Refer STD-W-05 Irish Water: Water Infrastructure Standard Details)
- Existing Watermain
- Site Boundary

Rev	By	Date	Description
05	FOS	30.10.25	Revised design as per KI comments
04	FOS	17.10.25	Revised design post Section 32 comments
03	DA	08.04.25	Layout Updated
02	DA	15.01'25	Layout Updated
01	DA	18.09'24	Scour Valves Added to low points

Drawing Status: PLANNING

Project Title: Ballinacurra Mill LRD.

Drawing Title: Watermain Site Layout

Client: Ballinacurra Project Limited Partnership

M.H.L & Associates Ltd.
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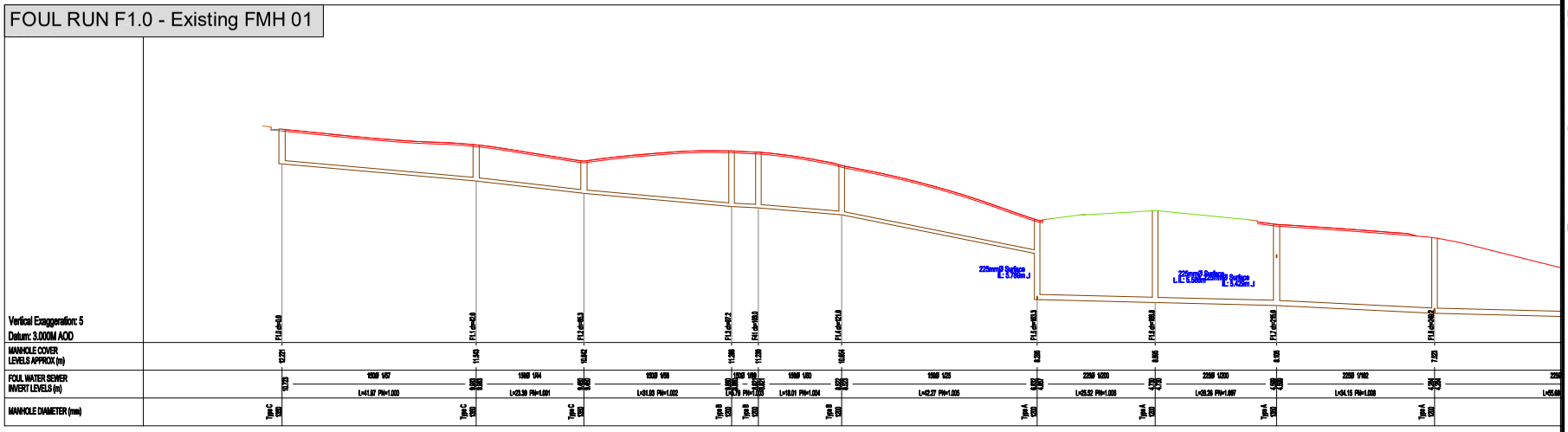
E-Mail:info@mhl.ie

Designed:	Drawn:	Checked:
FOS	FOS	KM

Scale:	Date:
1:1000 @ A3	Oct 2025

Job No:	Drawing No:	Revision:
23072HD	23072HD-WM-P04	05

FOUL RUN F1.0 - Existing FMH 01



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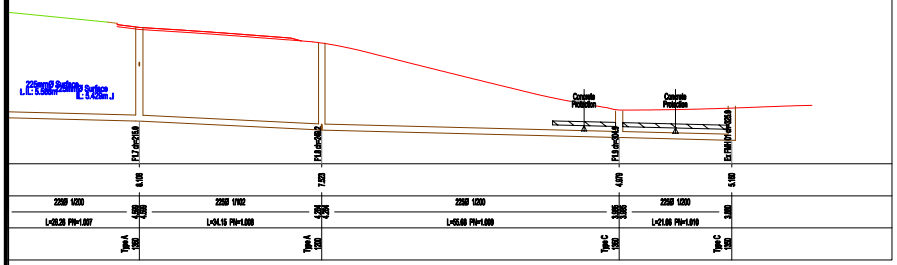

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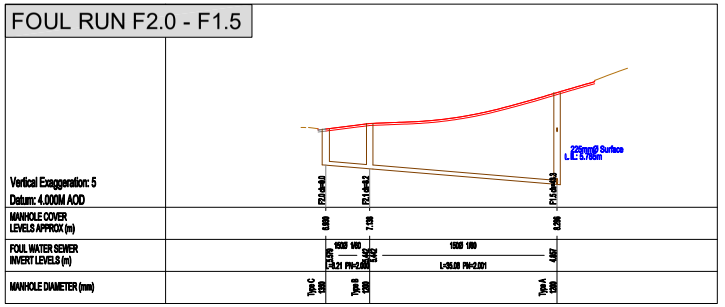

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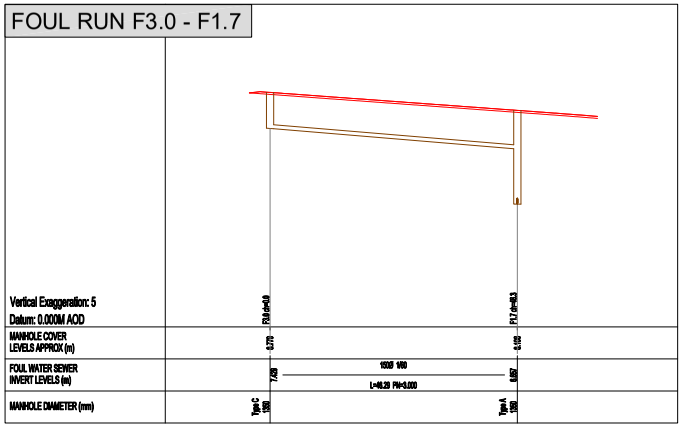

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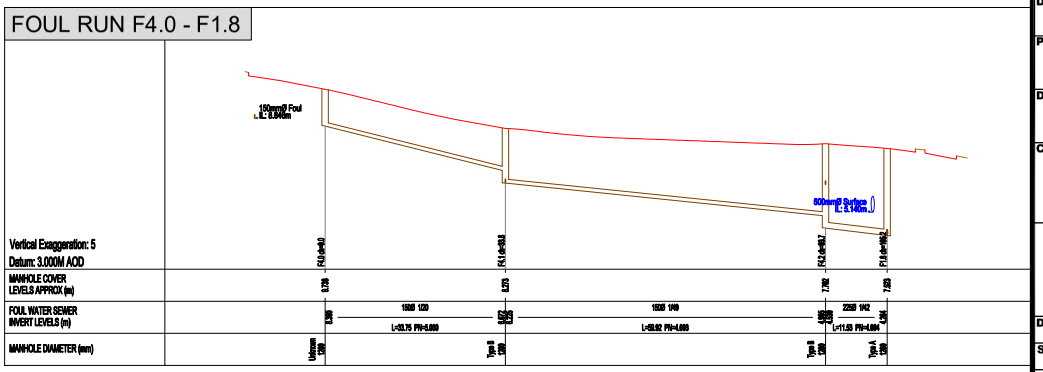

NOTES:

All dimensions in metres.
Do not scale from drawing.
For any discrepancies found please consult with design office.
This drawing should be read in conjunction with all contract drawings, documents and specifications.

All works to be carried out to Irish Water standard details and codes of practice.

All pipes to be uPVC type as per section 3.13. of the IW Code of Practice for Wastewater Infrastructure.

Unplasticised PVC pipes and fittings shall comply with the provisions IS EN 1401 2009/2012. Pipes to be application area code "UD", Stiffness Class 8kN/m2. Provision for jetting shall be based on the WRc Sewer Jetting Code of Practice,June 1997. Pipes to be capable of resisting a maximum jetting pump pressure of 2,600psi (180 Bar) without damage.(Sewer diameters 150mm up to 450mm, Service Connections of 100mm diameter)

Bedding and trench detail as per STD-WW-07 and STD-WW-08.

All manhole to be 1.2m internal diameter and precast concrete as per detail on Irish Water drawing STD-WW-10.

The minimum pipe size for Gravity Sewer where more than 20 housing units are connected is 225mm diameter subject to hydraulic design capacity assessment requirement.

Rev	By	Date	Description

Drawing Status: PLANNING

Project Title: Ballinacurra Mill LRD.

Drawing Title: Wastewater Longsection (Sheet 1 of 3)

Client: Ballinacurra Project Limited Partnership

M.H.L & Associates Ltd.
Consulting Engineers
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Designed:	Drawn:	Checked:
FOS	FOS	KM

Scale:	Date:
NTS	Oct 2025

Job No:	Drawing No:	Revision:
23072HD	23072HD-WWLS-P01	