

Appendix 2-1 – A3 version of Planning Drawings



Bord na Móna

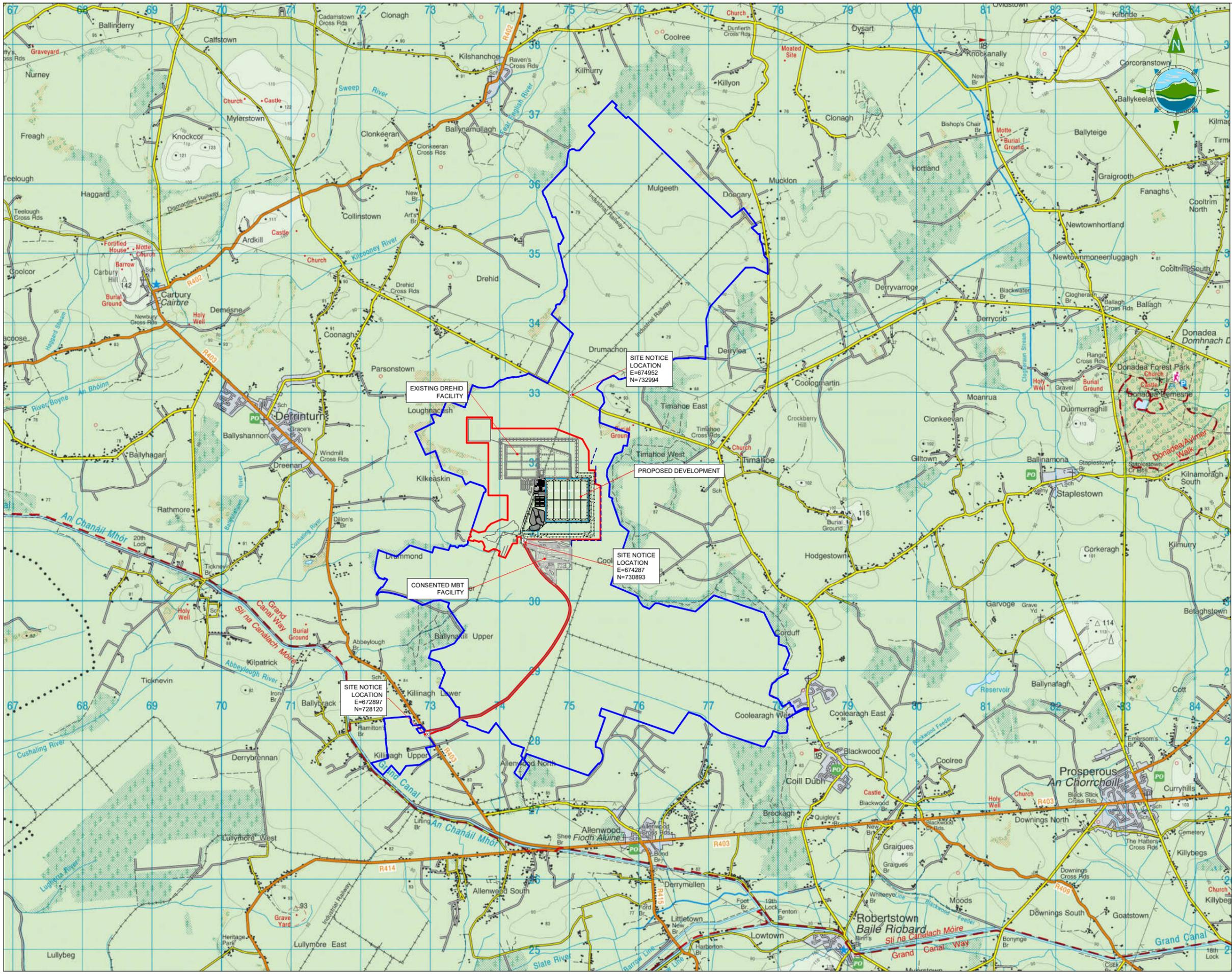
DREHID WASTE MANAGEMENT FACILITY
FURTHER DEVELOPMENT

PLANNING APPLICATION DRAWINGS

JUNE 2023

**DREHID WASTE MANAGEMENT FACILITY
FURTHER DEVELOPMENT
PLANNING APPLICATION DRAWINGS**

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
11290-2000	REGIONAL SITE LOCATION MAP	11290-2045	PROPOSED ROADS KEY PLAN
11290-2001	SITE LOCATION MAP - Sheet 1 of 2	11290-2046	PROPOSED WASTE TRAFFIC LAY BY & NEW SITE EGRESS LANE
11290-2002	SITE LOCATION MAP - Sheet 2 of 2	11290-2047	SIGNAGE AND ROAD MARKINGS
11290-2003	SITE LAYOUT PLAN	11290-2048	FOUL PUMP STATION DETAILS
11290-2004	EXISTING SITE TOPOGRAPHY	11290-2049	SURFACE WATER PUMP STATION DETAILS
11290-2005	SITE DRAINAGE LAYOUT	11290-2050	ATTENUATION LAGOONS PLAN AND SECTION
11290-2006	SITE FENCING LAYOUT	11290-2051	CARPARK AND ROAD CONSTRUCTION DETAILS
		11290-2054	TRENCH BEDDING AND SWALE DETAILS
11290-2010	FACILITY MASTER PLAN	11290-2057	FENCING DETAILS
11290-2011	LANDFILL PHASING PLAN	11290-2058	PROPOSED PIPE CONTROL DAM DETAILS
11290-2012	LEACHATE COLLECTION SYSTEMS	11290-2059	PRIMARY TREATMENT TANK AND OIL INTERCEPTOR DETAILS
11290-2013	LANDFILL GAS & LEACHATE RECIRCULATION LAYOUT	11290-2060	EMBANKMENT & LINER DETAILS
11290-2014	SURFACE WATER AND FOUL DRAINAGE MASTER PLAN	11290-2061	GROUNDWATER PUMP STATION - DETAILS
11290-2015	UTILITIES MASTER PLAN	11290-2062	LEACHATE HEADWALL - DETAILS
11290-2016	DRAINAGE AND UTILITIES LAYOUT PLAN 1 of 9	11290-2063	LANDFILL GAS MANAGEMENT & CAPPING DETAILS
11290-2017	DRAINAGE AND UTILITIES LAYOUT PLAN 2 of 9	11290-2064	INTEGRATED CONSTRUCTED WETLANDS - DETAILS
11290-2018	DRAINAGE AND UTILITIES LAYOUT PLAN 3 of 9		
11290-2019	DRAINAGE AND UTILITIES LAYOUT PLAN 4 of 9	11290-2070	LANDFILL CAP FINAL RESTORATION LEVELS
11290-2020	DRAINAGE AND UTILITIES LAYOUT PLAN 5 of 9	11290-2071	LANDSCAPE PLAN
11290-2021	DRAINAGE AND UTILITIES LAYOUT PLAN 6 of 9		
11290-2022	DRAINAGE AND UTILITIES LAYOUT PLAN 7 of 9	11290-2080	STRUCTURES GENERAL ARRANGEMENT
11290-2023	DRAINAGE AND UTILITIES LAYOUT PLAN 8 of 9	11290-2081	MSW PROCESSING & COMPOSTING BUILDING, NEW BIOFILTERS & PLANT CONTROL ROOM - PLAN
11290-2024	DRAINAGE AND UTILITIES LAYOUT PLAN 9 of 9	11290-2082	MSW PROCESSING & COMPOSTING BUILDING, NEW BIOFILTERS & PLANT CONTROL ROOM - ELEVATIONS & SECTION
11290-2028	UNDERCELL DRAINAGE SYSTEMS	11290-2083	MSW PROCESSING & COMPOSTING BUILDING, NEW BIOFILTERS & PLANT CONTROL ROOM - ELEVATIONS
		11290-2085	SOIL & STONES AND C&D WASTE (Rubble) PROCESSING BUILDING & FUEL STORAGE AREA - PLAN, ELEVATIONS & SECTION
11290-2030	CELL LAYOUT		
11290-2031	PROPOSED LANDFILL - LONGITUDINAL SECTIONS	11290-2096	MAINTENANCE BUILDING PLAN
11290-2032	PROPOSED LANDFILL - CROSS SECTIONS	11290-2097	MAINTENANCE BUILDING SECTION AND ELEVATIONS

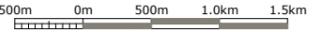


GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
SITE NOTICE LOCATION	LOCATION

- NOTES:**
- FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING.
 - ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE.
 - ENGINEER/EMPLOYERS REPRESENTATIVE, AS APPROPRIATE, TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES.
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 - ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

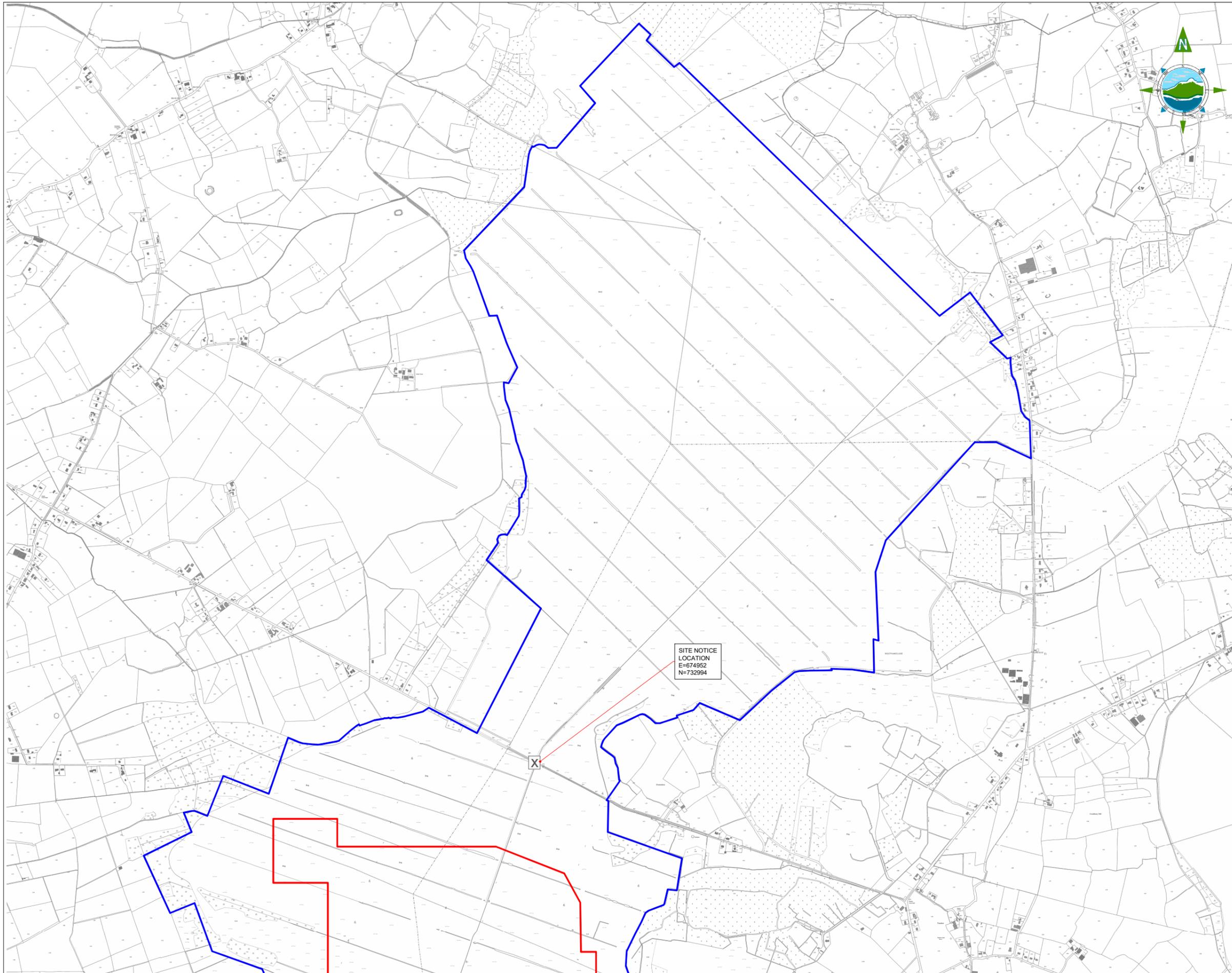
Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
REGIONAL SITE LOCATION MAP

Scale @ A1: **1:25,000**
 Prepared by: M. Nolan
 Checked: R. Hunt
 Date: November 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

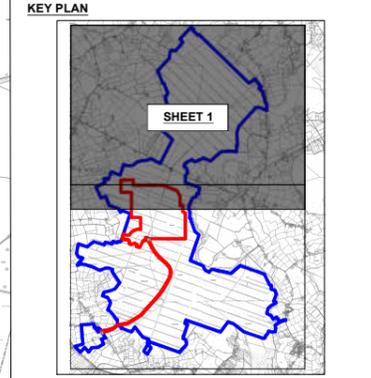
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 e-mail: dublin@tobin.ie
 www.tobin.ie

Drawing No.: **11290-2000**
 Revision: **A**



GENERAL LEGEND
 BORD NA MÓNA OWNERSHIP BOUNDARY APPLICATION BOUNDARY

SITE NOTICE LOCATION X



- NOTES:**
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200m 0m 200m 400m 600m

Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

SITE NOTICE LOCATION
 E=674952
 N=732994

Client:
Bord na Móna

Project:
 DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
 SITE LOCATION MAP - Sheet 1 of 2 -

Scale @ A1: 1:10,000

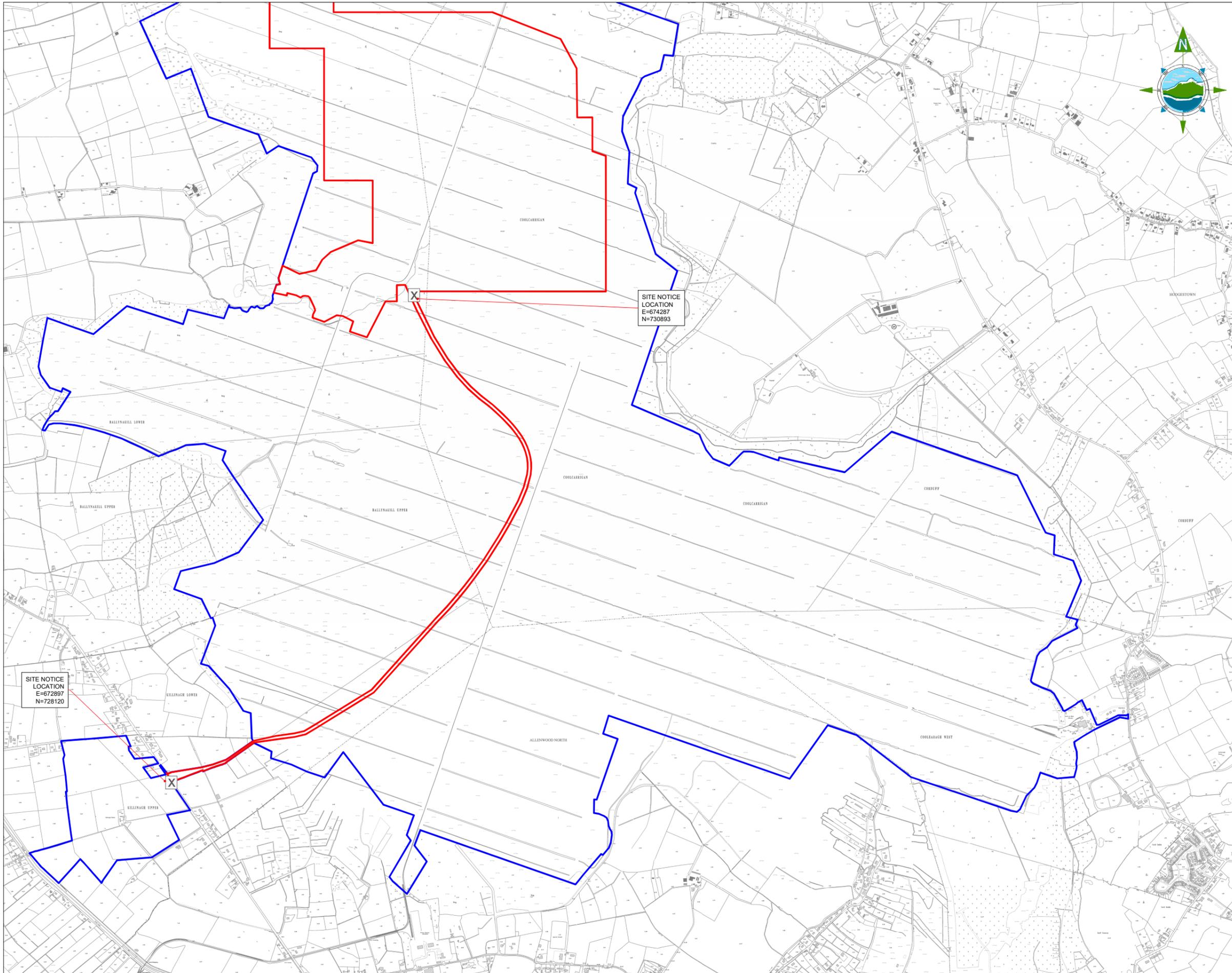
Prepared by: M. Nolan
 Checked: R. Hunt
 Date: November 22

Project Director: S. Tinnelly
 Drawing Status: Planning

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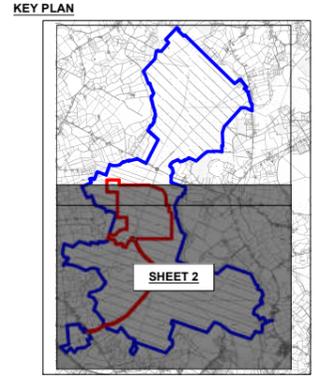
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 fax: +353-(0)1-8030409
 e-mail: dublin@tobin.ie
 www.tobin.ie

Drawing No.: 11290-2001 A



GENERAL LEGEND
 BORD NA MÓNA OWNERSHIP BOUNDARY APPLICATION BOUNDARY

SITE NOTICE LOCATION



- NOTES:**
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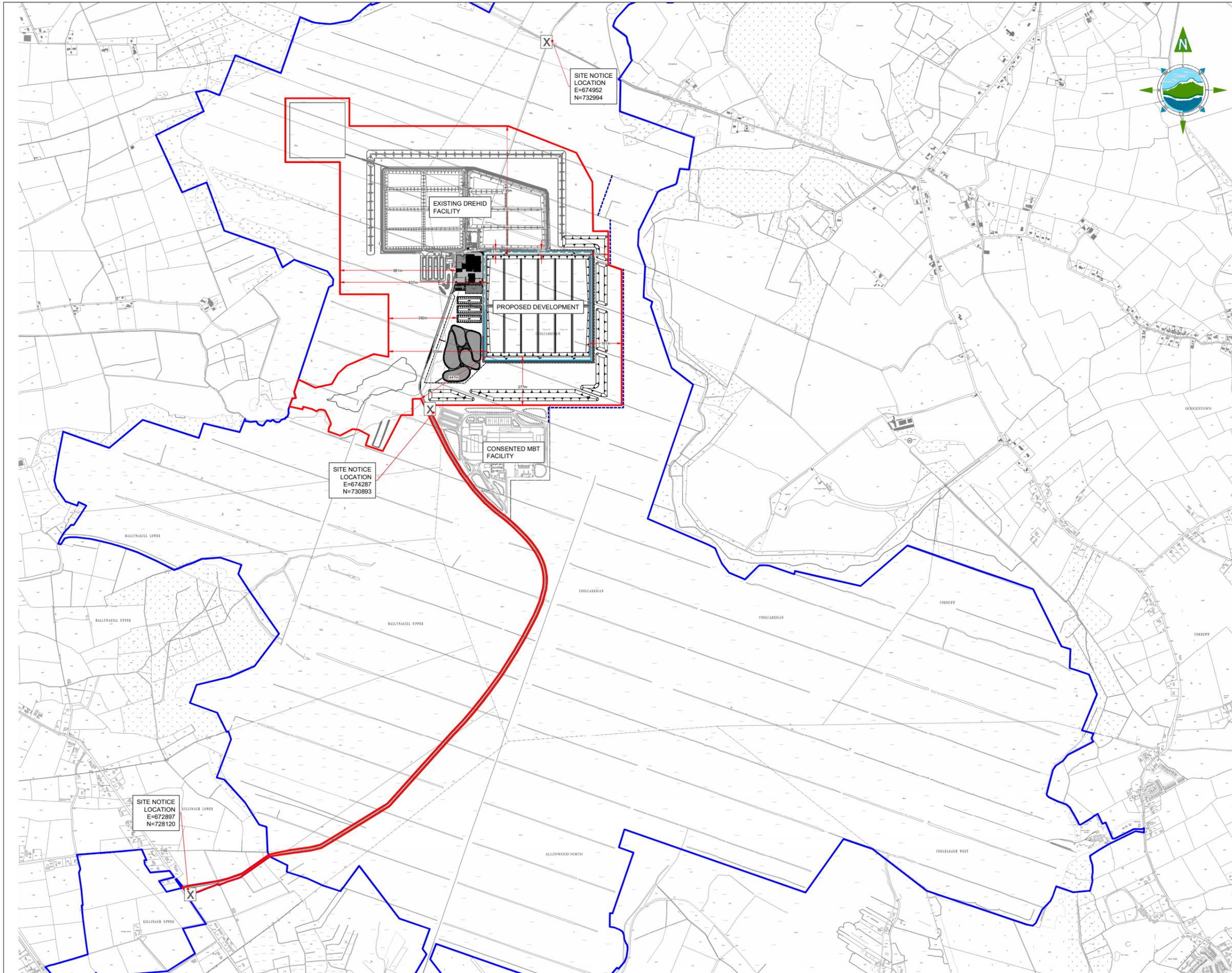
Project:
 DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
 SITE LOCATION MAP - Sheet 2 of 2 -

Scale @ A1: 1:10,000
 Prepared by: M. Nolan
 Checked by: R. Hunt
 Date: November 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

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Drawing No.: 11290-2002
 Revision: A



GENERAL LEGEND
 BORD NA MÓNA OWNERSHIP BOUNDARY APPLICATION BOUNDARY
 SITE NOTICE LOCATION X

- NOTES:**
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200m 0m 200m 400m 600m

Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

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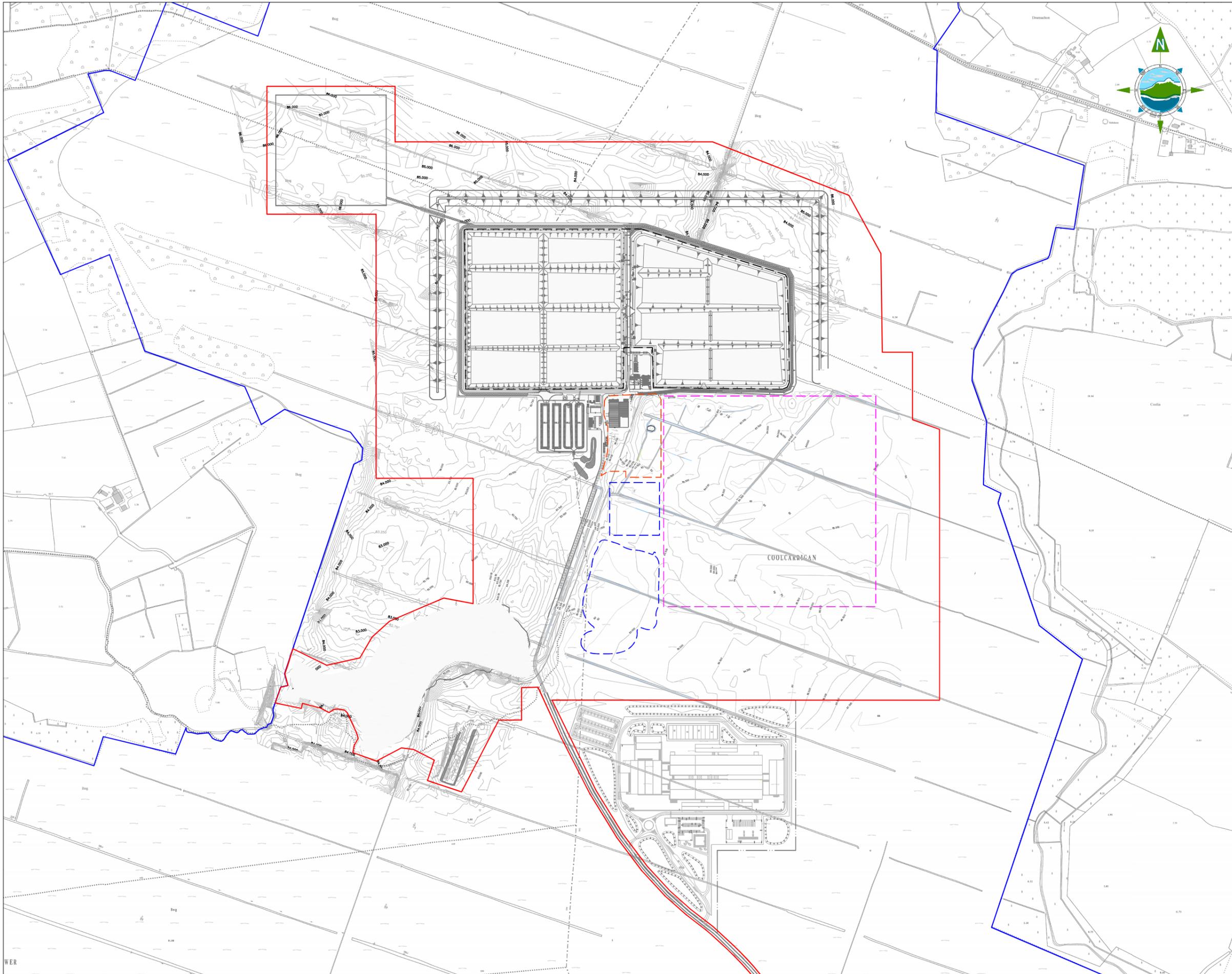
Project:
 DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
 SITE LAYOUT PLAN

Scale @ A1: 1:10,000
 Prepared by: M. Nolan
 Checked: R. Hunt
 Date: November 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

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Drawing No.: 11290-2003
 Revision: A



GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
EXISTING PERMITTED LANDFILL FOOTPRINT	PROPOSED LANDFILL FOOTPRINT
PROPOSED BUILDINGS / WORKS FOOTPRINT	PROPOSED SURFACE WATER LAGOONS & WETLAND FOOTPRINT
EXISTING MAJOR CONTOUR	EXISTING MINOR CONTOUR

84.250 84.000

- NOTES:**
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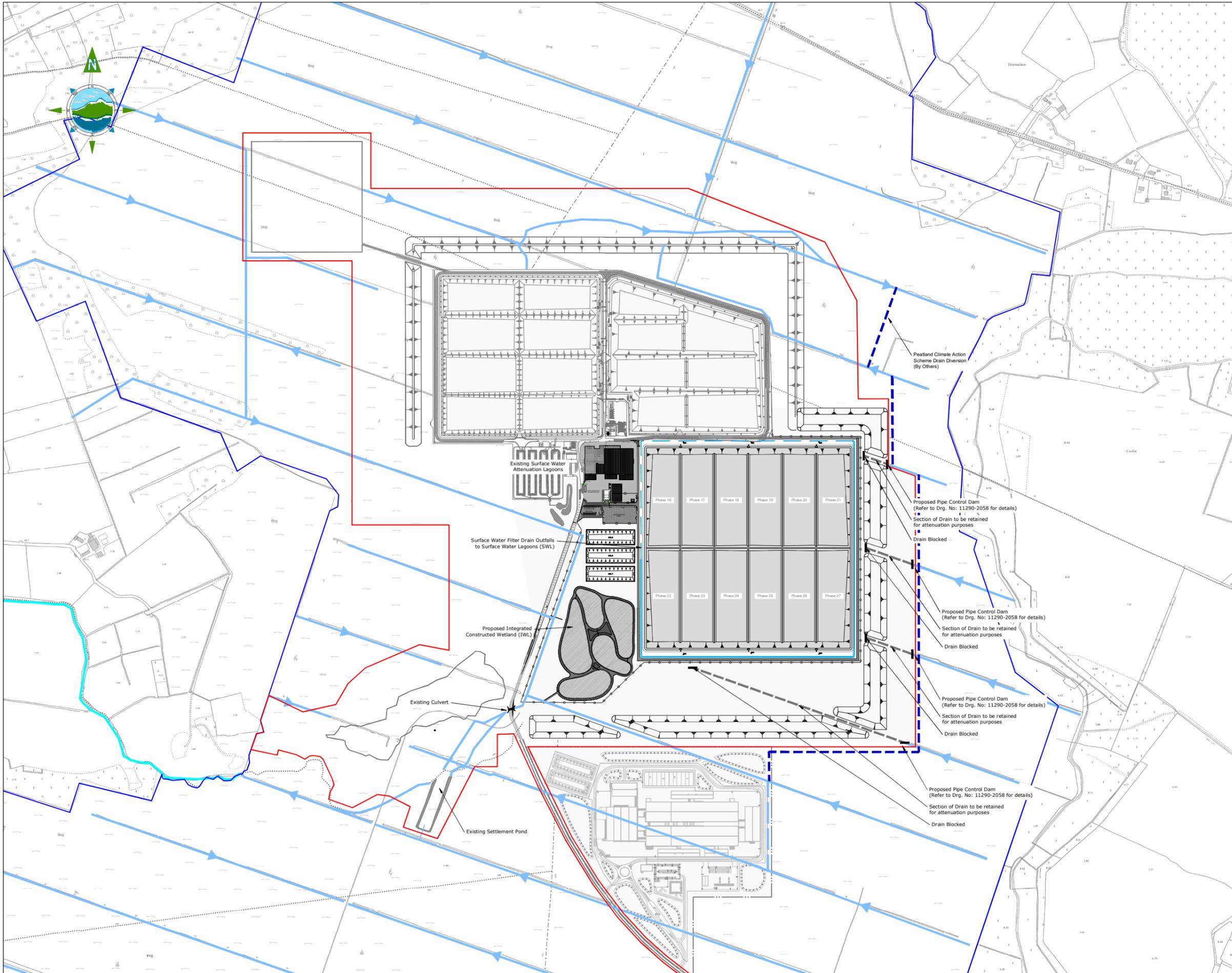
Project:
 DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
 EXISTING SITE TOPOGRAPHY

Scale @ A1: 1:5,000
 Prepared by: M. Nolan Checked: R. Hunt Date: November 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

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Drawing No.: 11290-2004 Revision: A



GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
EXISTING LAND DRAINS	CLOSED DRAIN FOR ATTENUATION
PEATLAND CLIMATE ACTION SCHEME DRAIN DIVERSION	

- NOTES:**
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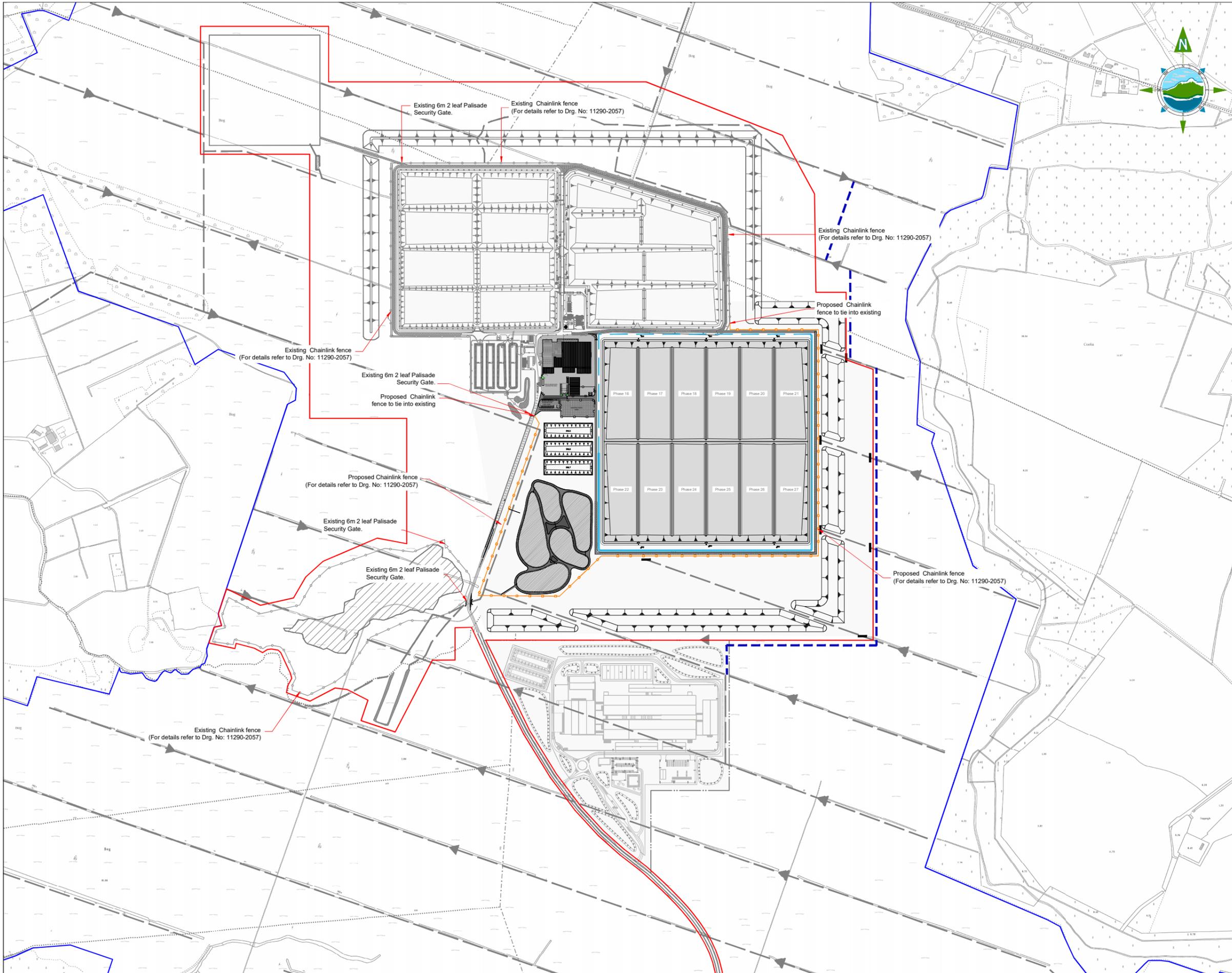
Project:
 DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
 SITE DRAINAGE LAYOUT

Scale @ A1: 1:5,000
 Prepared by: M. Nolan Checked: R. Hunt Date: November 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

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 Drawing No.: 11290-2005 Revision: A



GENERAL LEGEND

BORD NA MONA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
EXISTING CHAINLINK FENCE	PROPOSED CHAINLINK FENCE
BORROW AREAS (Clay & sand & gravel)	

- NOTES:**
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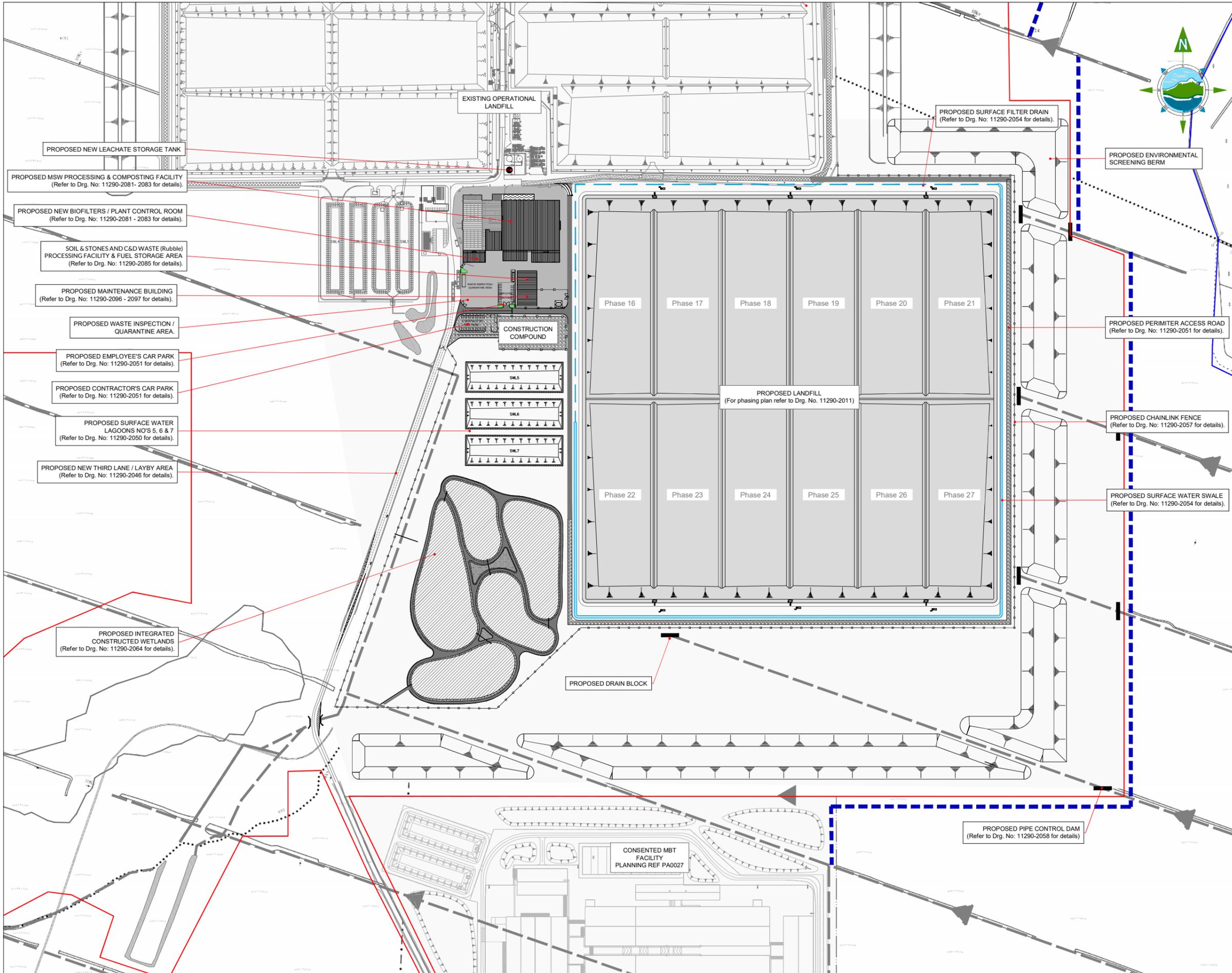
Project:
 DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
 SITE FENCING LAYOUT

Scale @ A1: 1:5,000
 Prepared by: M. Nolan
 Checked: R. Hunt
 Date: November 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

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Revision:
 Drawing No.: 11290-2006 A



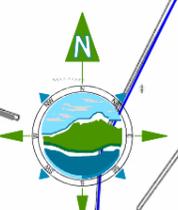
GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY (Blue dashed line)

APPLICATION BOUNDARY (Red solid line)

PROPOSED WORKS (Red dashed line)

EXISTING WORKS (Black solid line)



- NOTES:**
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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

Project:
 DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
 FACILITY MASTER PLAN

Scale @ A1: 1:2,500

Prepared by: M. Nolan Checked: R. Hunt Date: November 22

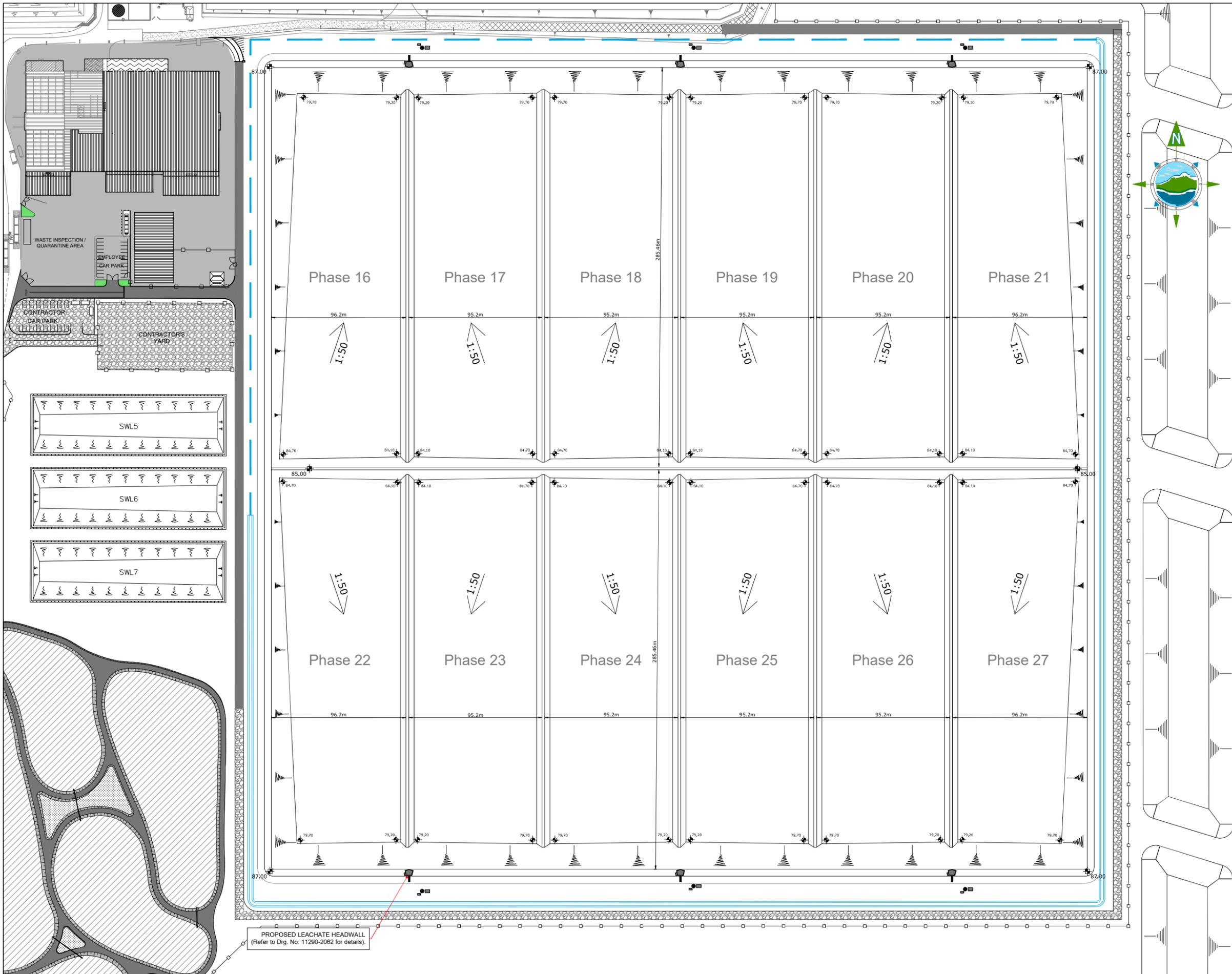
Project Director: S. Tinnelly

Drawing Status: Planning

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Drawing No.: 11290-2010 Revision: A



PROPOSED LEACHATE HEADWALL
(Refer to Drg. No: 11290-2062 for details).

- SYMBOLS LEGEND**
- SPOT HEIGHTS ON FORMATION
 - SPOT HEIGHTS ON TOP OF BANK
 - EMBANKMENT
 - LEACHATE HEADWALL
 - GROUNDWATER PUMP STATION AND KIOSK

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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
LANDFILL PHASING PLAN

Scale @ A1: 1:1,250

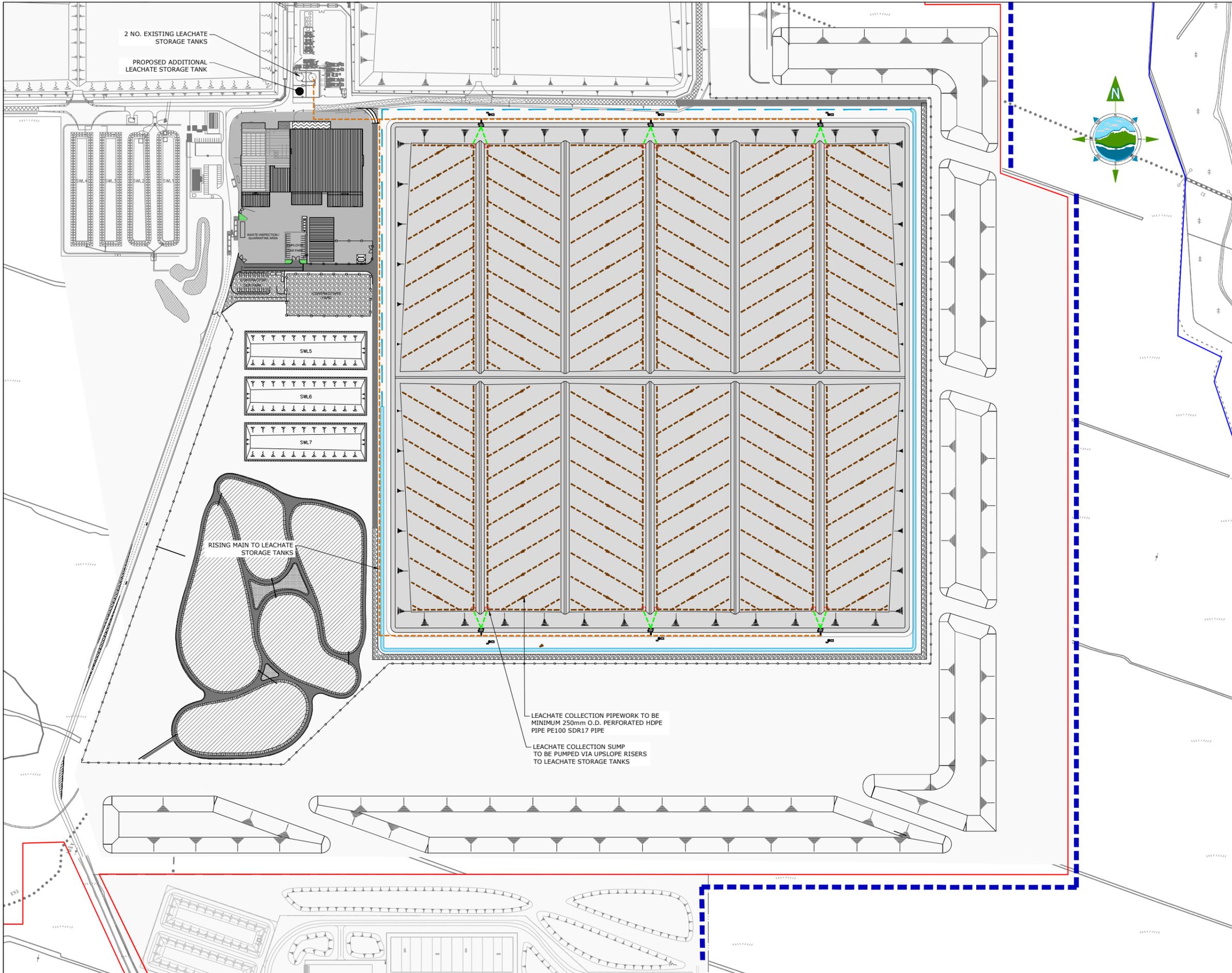
Prepared by: M. Nolan
Checked: R. Hunt
Date: November 22

Project Director: S. Tinnelly

Drawing Status: Planning

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Drawing No.: 11290-2011
Revision: A



2 NO. EXISTING LEACHATE STORAGE TANKS
PROPOSED ADDITIONAL LEACHATE STORAGE TANK

RISING MAIN TO LEACHATE STORAGE TANKS

LEACHATE COLLECTION PIPEWORK TO BE MINIMUM 250mm O.D. PERFORATED HDPE PIPE PE100 SDR17 PIPE
LEACHATE COLLECTION SUMP TO BE PUMPED VIA UPSLOPE RISERS TO LEACHATE STORAGE TANKS

- GENERAL LEGEND**
- BORD NA MÓNA OWNERSHIP BOUNDARY
 - LEACHATE COLLECTION PIPEWORK IN LANDFILL
 - UPSLOPE RISERS TO LEACHATE HEADWALL
 - PROPOSED LEACHATE HEADWALL
 - APPLICATION BOUNDARY
 - LEACHATE COLLECTION RISING MAIN
 - LEACHATE COLLECTION SUMP

- NOTES:**
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A	26.04.23	PLANNING ISSUE	MN	RH

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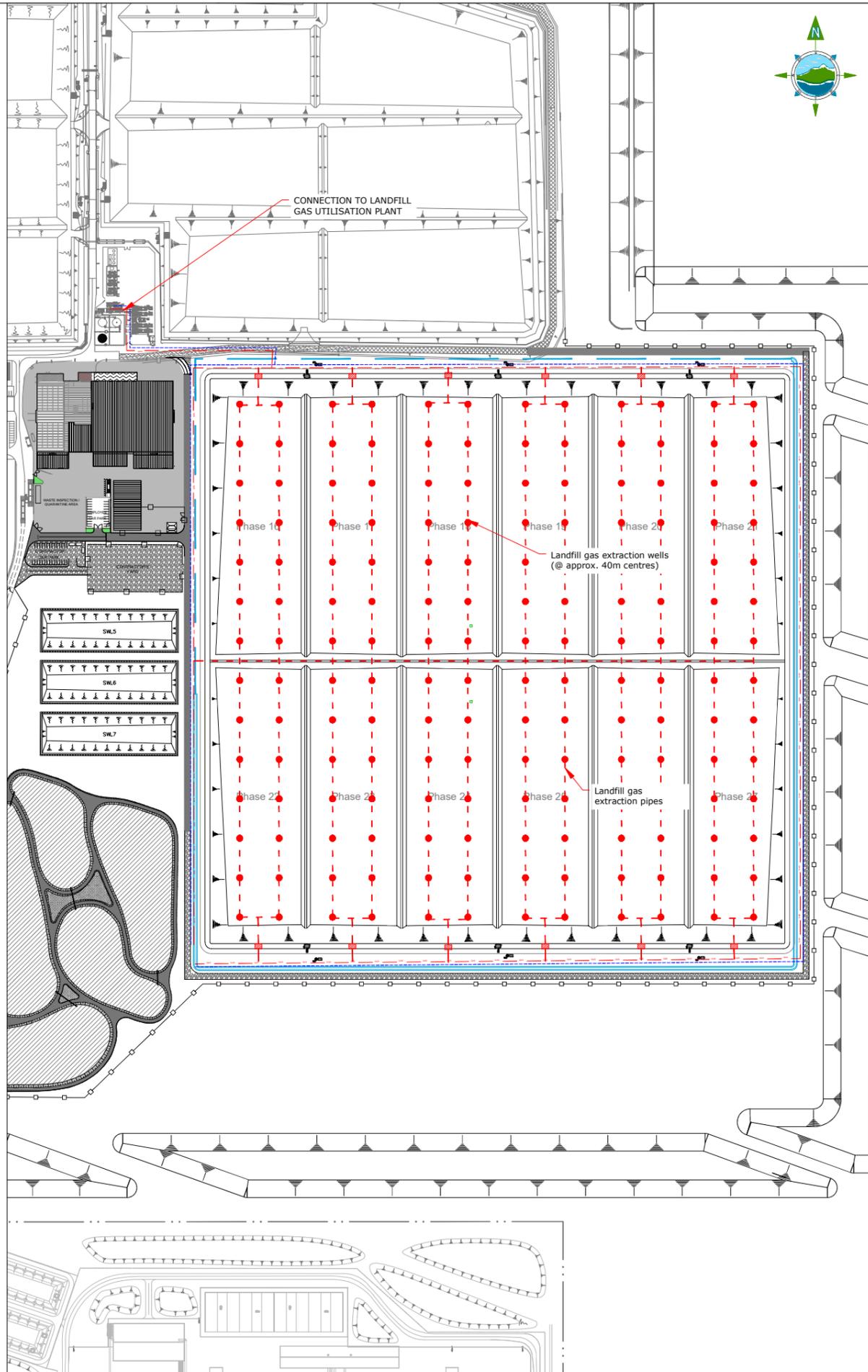
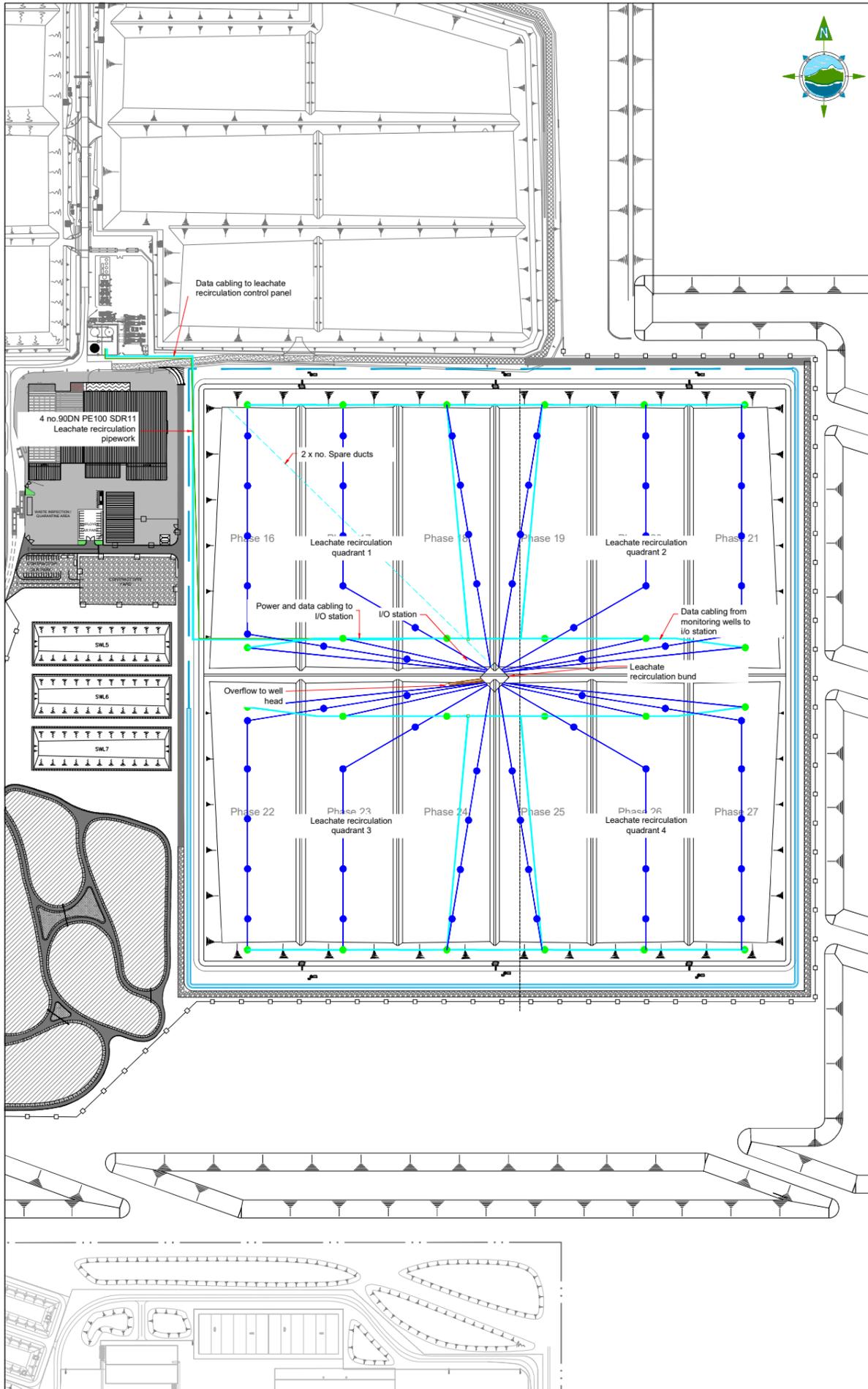
Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
LEACHATE COLLECTION SYSTEMS

Scale @ A1: 1:2,000
Prepared by: M. Nolan
Checked: R. Hunt
Date: November 22
Project Director: S. Tinnelly
Drawing Status: Planning

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Drawing No.: 11290-2012
Revision: A



GENERAL LEGEND

LEACHATE CIRCULATION PIPES AND WELLS	LANDFILL GAS EXTRACTION PIPES & WELLS
RECIRCULATED LEACHATE - PUMPED DELIVERY LINES	LANDFILL GAS COLLECTION RISING MAIN
INDICATIVE CABLE ROUTES	LANDFILL GAS COLLECTION COMPRESSED AIR LINE
OVERFLOW PIPEWORK	GAS FIELD CONNECTION MANIFOLD
QUADRANT BOUNDARIES	
LEACHATE RECIRCULATION WELLS REQUIRING HYDROSTATIC TRANSDUCER INSTALLATION	

- NOTES:**
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 - ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD



Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

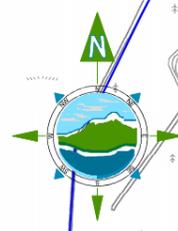
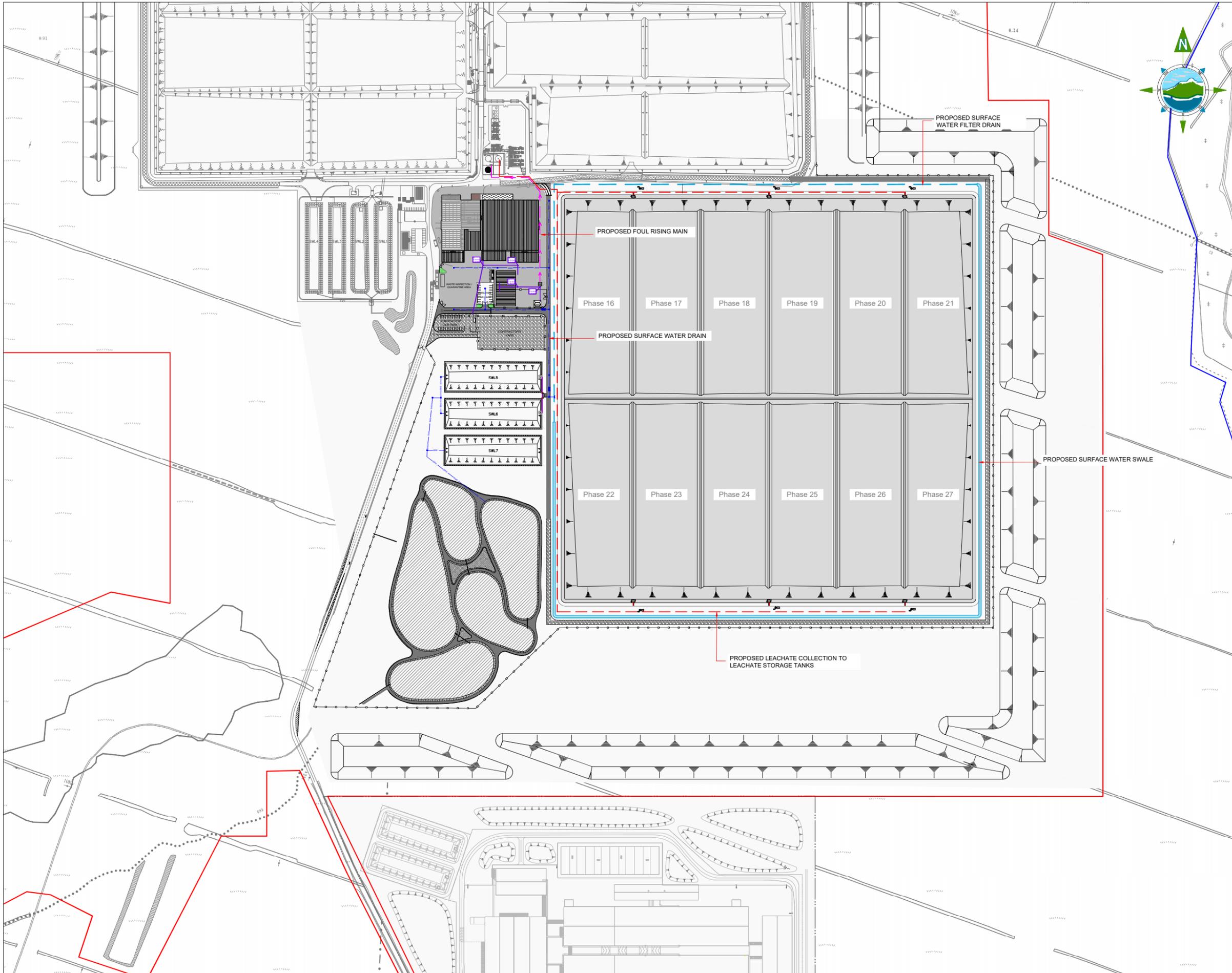
Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
LANDFILL GAS & LEACHATE RECIRCULATION LAYOUT

Scale @ A1: 1:2,500
 Prepared by: M. Nolan Checked: R. Hunt Date: November 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

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 e-mail: dublin@tobin.ie
 www.tobin.ie

Drawing No.: 11290-2013 A Revision:



GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
PROPOSED SURFACE WATER SWALE	PROPOSED LEACHATE COLLECTION NETWORK
PROPOSED FOUL GRAVITY MAIN	PROPOSED FOUL RISING MAIN ROUTES
PROPOSED SURFACE WATER NETWORK	PROPOSED SURFACE WATER FILTER DRAIN

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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

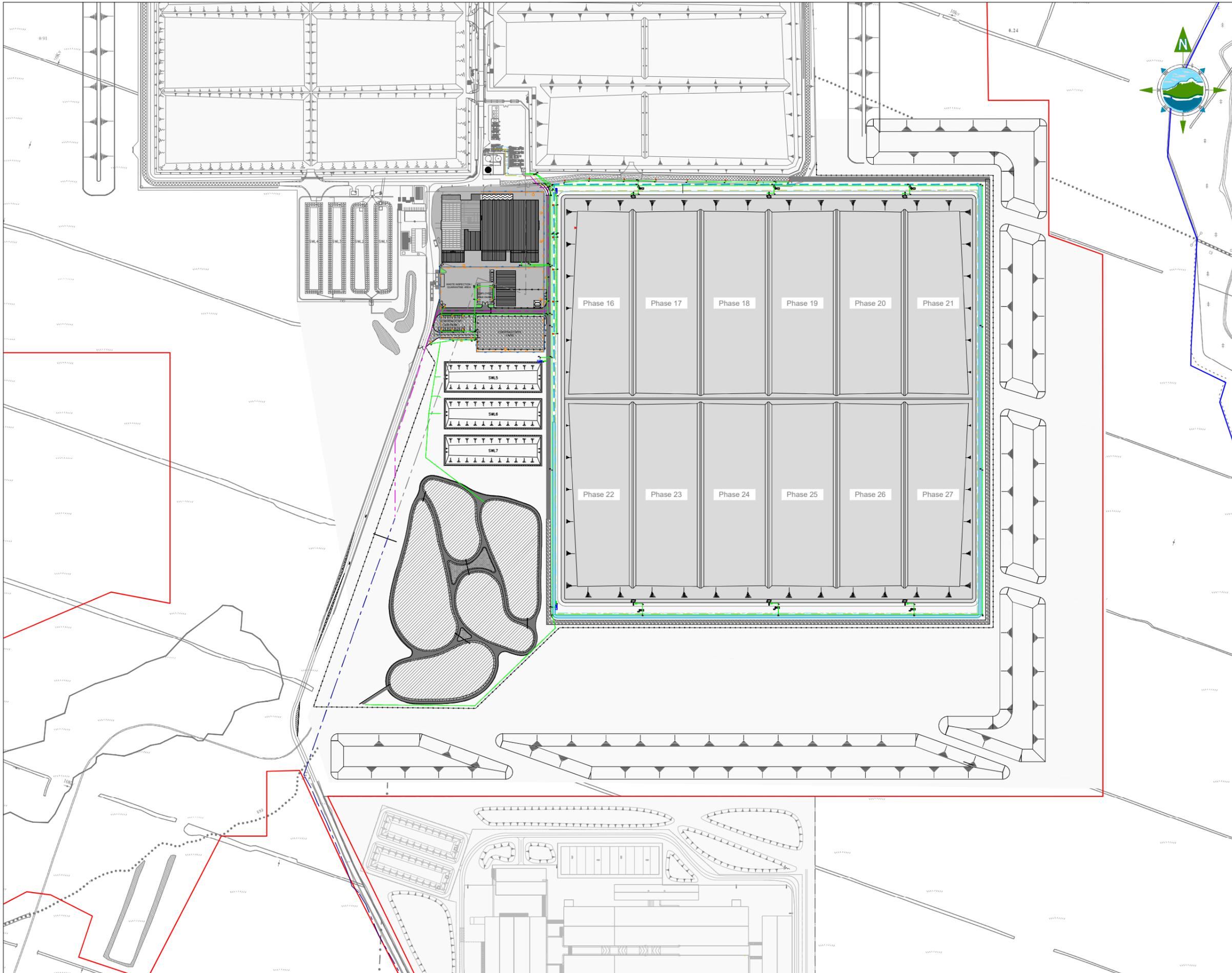
Project:
 DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
 SURFACE WATER & FOUL DRAINAGE MASTER PLAN

Scale @ A1: 1:2,500
 Prepared by: M. Nolan
 Checked: R. Hunt
 Date: November 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

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Drawing No.: 11290-2014
 Revision: A



GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
PROPOSED WATERMAIN	PROPOSED FIREMAIN
PROPOSED ESB & COMMS DUCT	PROPOSED HYDRANT
EXISTING OVERHEAD POWERLINE	PROPOSED DIVERSION TO POWERLINE (Underground)
OVERHEAD POWERLINE TO BE REMOVED	

- NOTES:**
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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

Project:
 DREHID WASTE MANAGEMENT FACILITY FUTURE DEVELOPMENT

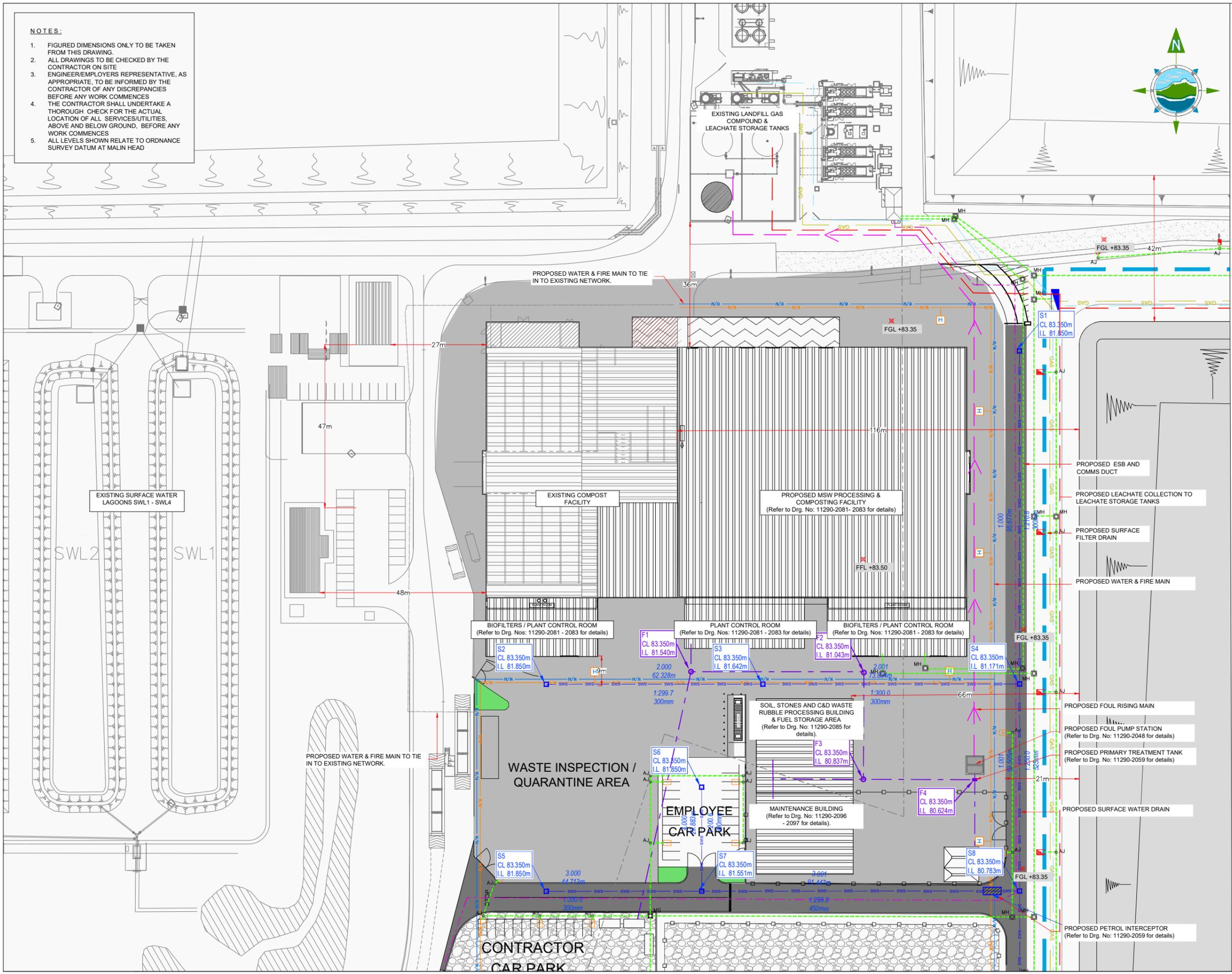
Title:
 UTILITIES MASTER PLAN

Scale @ A1: 1:2,500
 Prepared by: M. Nolan
 Checked: R. Hunt
 Date: November 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

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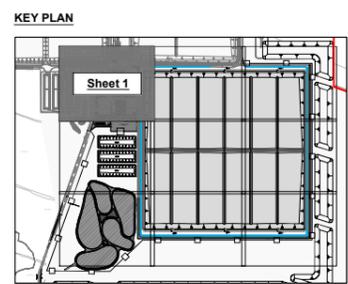
Drawing No.: 11290-2015
 Revision: A

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GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
PROPOSED SURFACE WATER SWALE	PROPOSED SURFACE WATER FILTER DRAIN
PROPOSED FOUL GRAVITY MAIN	PROPOSED FOUL RISING MAIN
PROPOSED SURFACE WATER NETWORK	PROPOSED LEACHATE COLLECTION NETWORK
PROPOSED WATERMAIN	PROPOSED FIREMAIN
PROPOSED UNDERGROUND CABLE DIVERSION	PROPOSED GAS RING MAIN
PROPOSED ESB & COMMS DUCT	PROPOSED HYDRANT



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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

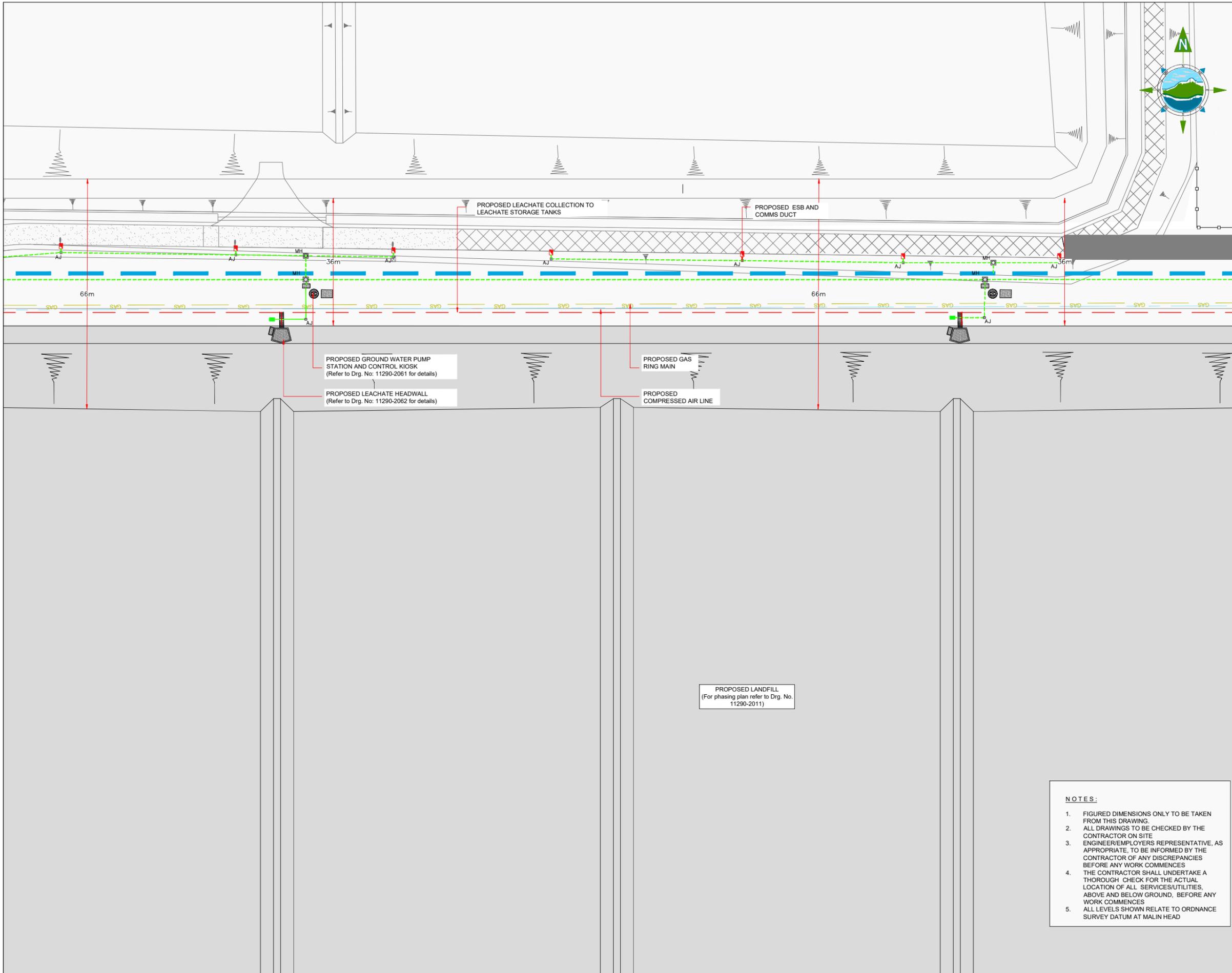
Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
DRAINAGE & UTILITIES LAYOUT PLAN - Sheet 1 of 9 -

Scale @ A1: 1:500
 Prepared by: M. Nolan
 Checked: R. Hunt
 Date: November 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

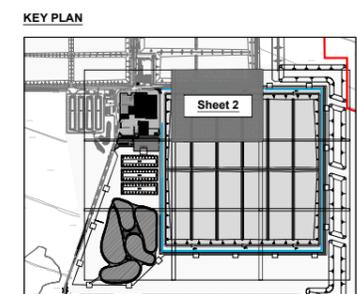
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Drawing No.: **11290-2016** A



GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
PROPOSED SURFACE WATER SWALE	PROPOSED SURFACE WATER FILTER DRAIN
PROPOSED FOUL GRAVITY MAIN	PROPOSED FOUL RISING MAIN
PROPOSED SURFACE WATER NETWORK	PROPOSED LEACHATE COLLECTION NETWORK
PROPOSED WATERMAIN	PROPOSED FIREMAIN
PROPOSED UNDERGROUND CABLE DIVERSION	PROPOSED GAS RING MAIN
PROPOSED ESB & COMMS DUCT	PROPOSED HYDRANT



Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

PROPOSED LANDFILL
(For phasing plan refer to Drg. No. 11290-2011)

- NOTES:**
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 5. ALL LEVELS SHOWN RELATE TO ORDINANCE SURVEY DATUM AT MALIN HEAD

Client:
Bord na Móna

Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
DRAINAGE & UTILITIES LAYOUT PLAN - Sheet 2 of 9 -

Scale @ A1: **1:500**

Prepared by: M. Nolan Checked: R. Hunt Date: November 22

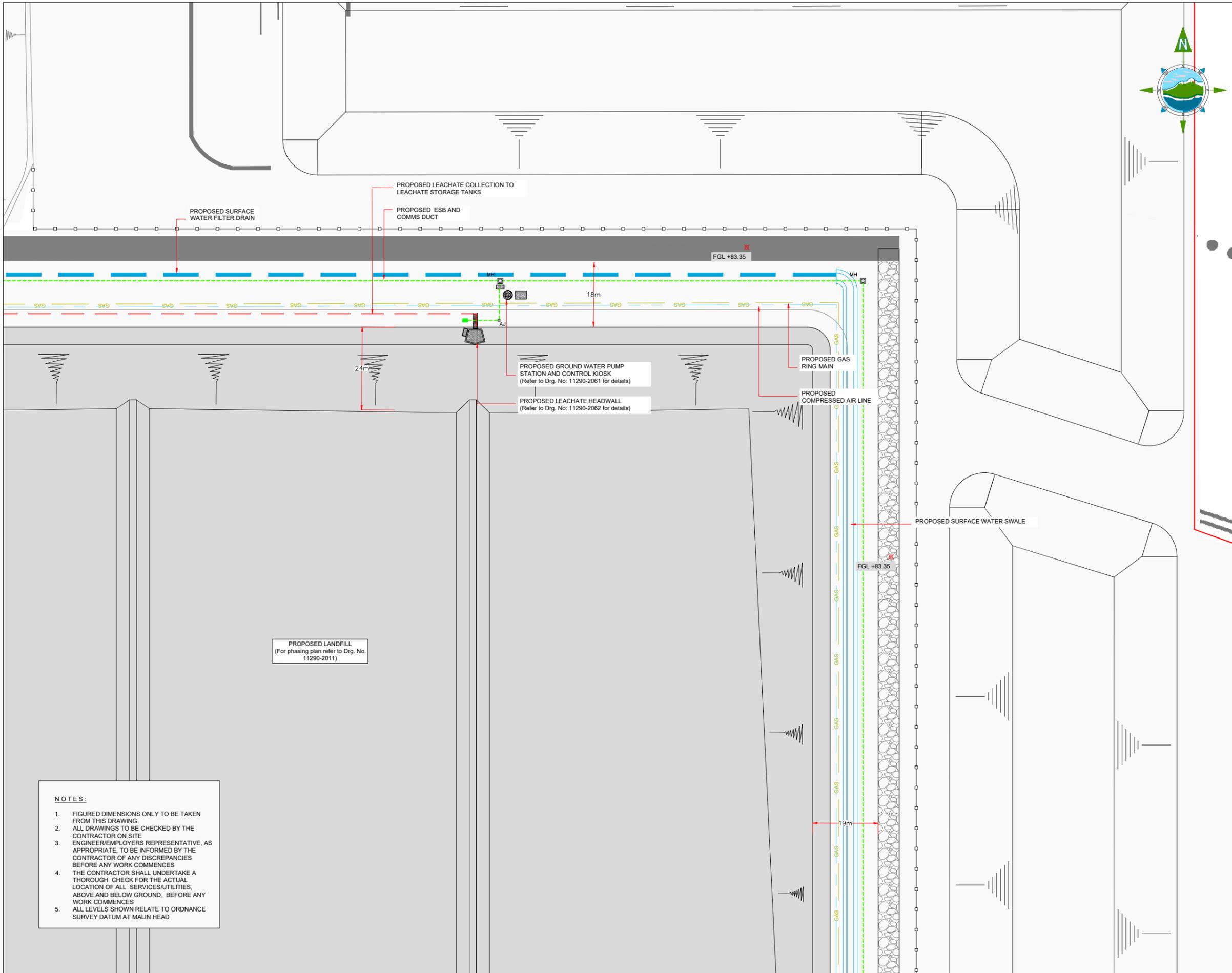
Project Director: S. Tinnelly

Drawing Status: Planning

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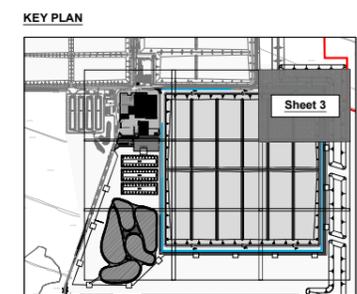
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Drawing No.: **11290-2017** Revision: **A**



GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
PROPOSED SURFACE WATER SWALE	PROPOSED SURFACE WATER FILTER DRAIN
PROPOSED FOUL GRAVITY MAIN	PROPOSED FOUL RISING MAIN
PROPOSED SURFACE WATER NETWORK	PROPOSED LEACHATE COLLECTION NETWORK
PROPOSED WATERMAIN	PROPOSED FIREMAIN
PROPOSED UNDERGROUND CABLE DIVERSION	PROPOSED GAS RING MAIN
PROPOSED ESB & COMMS DUCT	PROPOSED HYDRANT



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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

PROPOSED LANDFILL
(For phasing plan refer to Drg. No. 11290-2011)

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Client:
Bord na Móna

Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
DRAINAGE & UTILITIES LAYOUT PLAN - Sheet 3 of 9 -

Scale @ A1: 1:500

Prepared by: M. Nolan
Checked: R. Hunt
Date: November 22

Project Director: S. Tinnelly

Drawing Status: Planning

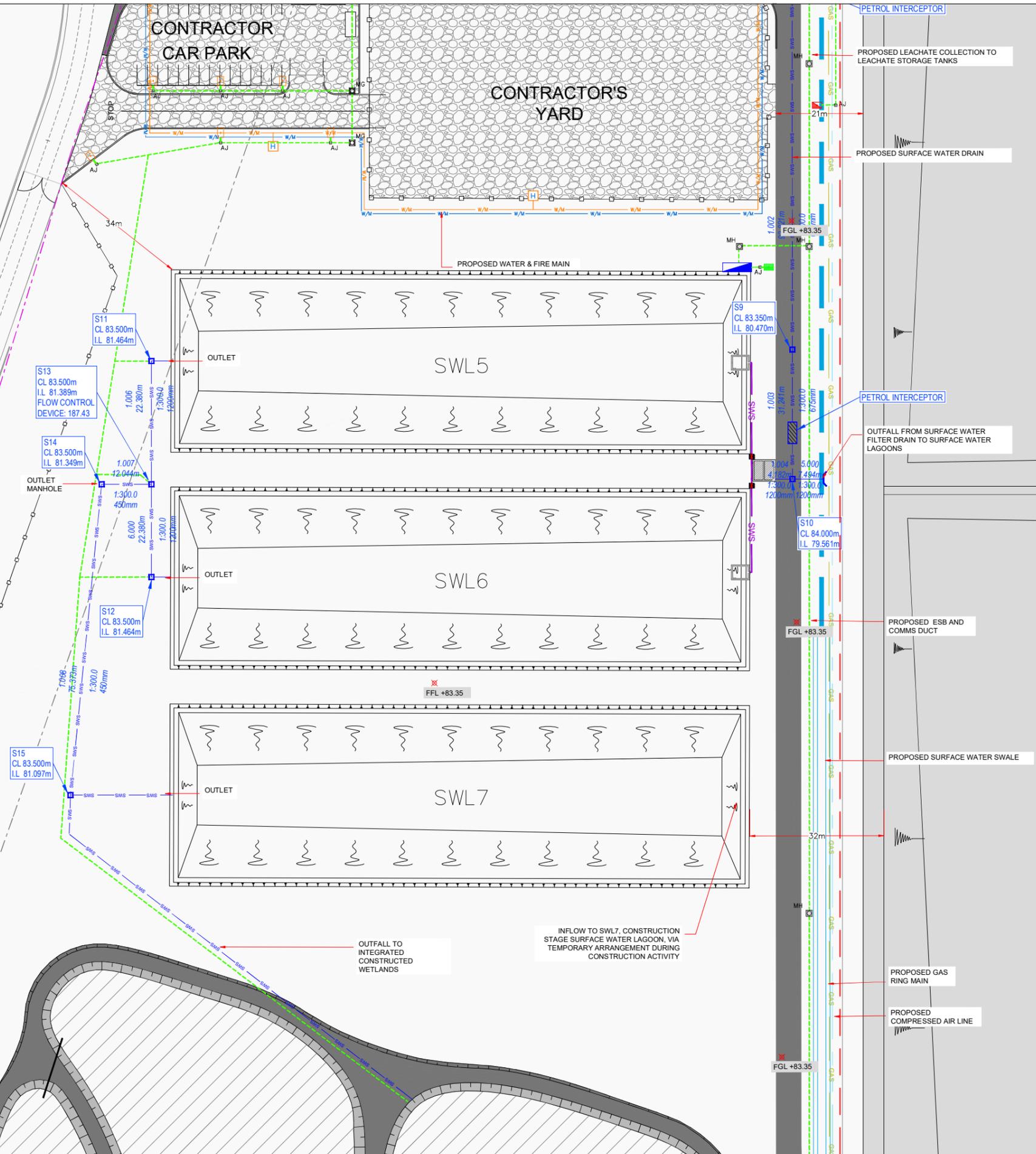
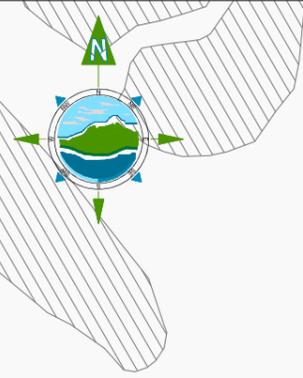
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Drawing No.: 11290-2018
Revision: A

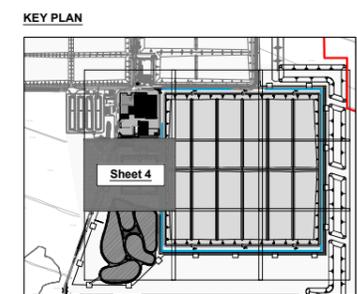
NOTES:

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GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
PROPOSED SURFACE WATER SWALE	PROPOSED SURFACE WATER FILTER DRAIN
PROPOSED FOUL GRAVITY MAIN	PROPOSED FOUL RISING MAIN
PROPOSED SURFACE WATER NETWORK	PROPOSED LEACHATE COLLECTION NETWORK
PROPOSED WATERMAIN	PROPOSED FIREMAIN
PROPOSED UNDERGROUND CABLE DIVERSION	PROPOSED GAS RING MAIN
PROPOSED ESB & COMMS DUCT	PROPOSED HYDRANT



10m 0 10m 20m 30m

Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
DRAINAGE & UTILITIES LAYOUT PLAN - Sheet 4 of 9 -

Scale @ A1: **1:500**

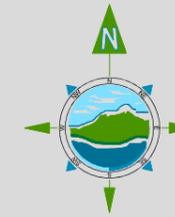
Prepared by: M. Nolan
Checked: R. Hunt
Date: November 22

Project Director: S. Tinnelly
Drawing Status: Planning

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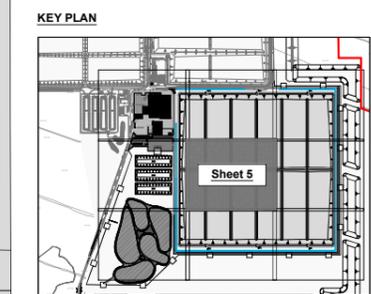
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Drawing No.: **11290-2019** Revision: **A**



GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
PROPOSED SURFACE WATER SWALE	PROPOSED SURFACE WATER FILTER DRAIN
PROPOSED FOUL GRAVITY MAIN	PROPOSED FOUL RISING MAIN
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PROPOSED WATERMAIN	PROPOSED FIREMAIN
PROPOSED UNDERGROUND CABLE DIVERSION	PROPOSED GAS RING MAIN
PROPOSED ESB & COMMS DUCT	PROPOSED HYDRANT



PROPOSED LANDFILL
(For phasing plan refer to Drg. No. 11290-2011)



Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

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Client:
Bord na Móna

Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
DRAINAGE & UTILITIES LAYOUT PLAN - Sheet 5 of 9 -

Scale @ A1: 1:500

Prepared by: M. Nolan Checked: R. Hunt Date: November 22

Project Director: S. Tinnelly

Drawing Status: Planning

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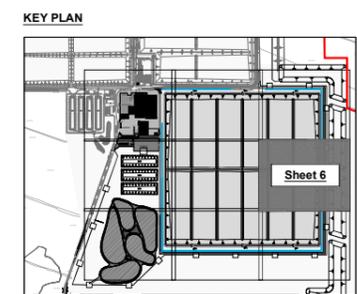
Drawing No.: 11290-2020 Revision: A



- NOTES:**
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GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
PROPOSED SURFACE WATER SWALE	PROPOSED SURFACE WATER FILTER DRAIN
PROPOSED FOUL GRAVITY MAIN	PROPOSED FOUL RISING MAIN
PROPOSED SURFACE WATER NETWORK	PROPOSED LEACHATE COLLECTION NETWORK
PROPOSED WATERMAIN	PROPOSED FIREMAIN
PROPOSED UNDERGROUND CABLE DIVERSION	PROPOSED GAS RING MAIN
PROPOSED ESB & COMMS DUCT	PROPOSED GAS RING MAIN
	PROPOSED HYDRANT



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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
DRAINAGE & UTILITIES LAYOUT PLAN - Sheet 6 of 9 -

Scale @ A1: **1:500**

Prepared by: **M. Nolan** Checked: **R. Hunt** Date: **November 22**

Project Director: **S. Tinnelly**

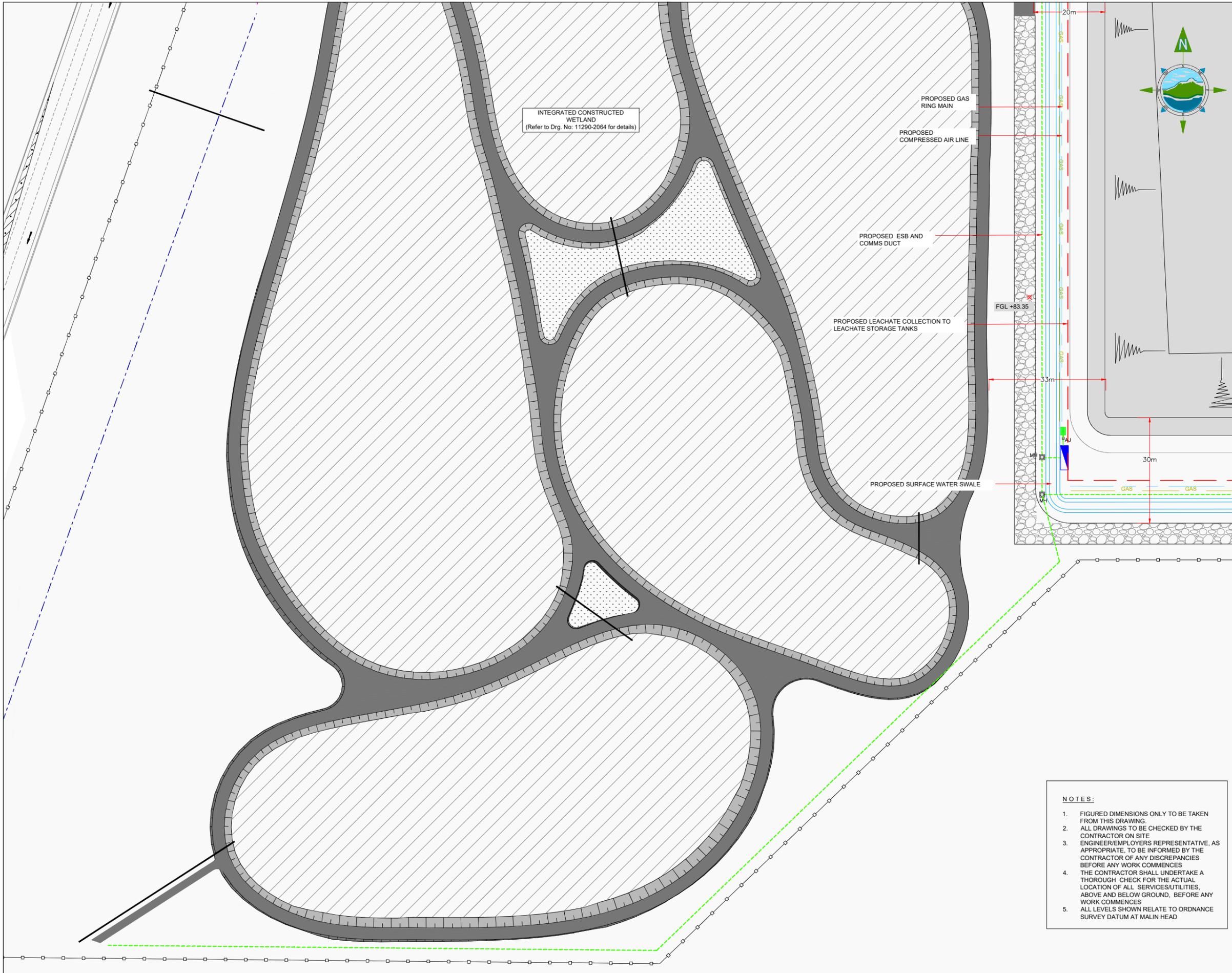
Drawing Status: **Planning**

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Drawing No.: **11290-2021** Revision: **A**



INTEGRATED CONSTRUCTED WETLAND
(Refer to Drg. No: 11290-2064 for details)

PROPOSED GAS RING MAIN

PROPOSED COMPRESSED AIR LINE

PROPOSED ESB AND COMMS DUCT

PROPOSED LEACHATE COLLECTION TO LEACHATE STORAGE TANKS

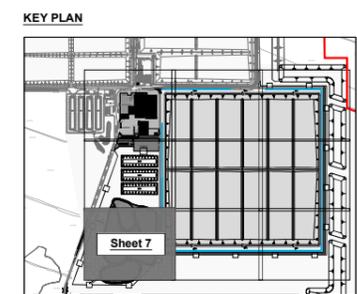
PROPOSED SURFACE WATER SWALE

FGL +83.35

- NOTES:**
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GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
PROPOSED SURFACE WATER SWALE	PROPOSED SURFACE WATER FILTER DRAIN
PROPOSED FOUL GRAVITY MAIN	PROPOSED FOUL RISING MAIN
PROPOSED SURFACE WATER NETWORK	PROPOSED LEACHATE COLLECTION NETWORK
PROPOSED WATERMAIN	PROPOSED FIREMAIN
PROPOSED UNDERGROUND CABLE DIVERSION	PROPOSED GAS RING MAIN
PROPOSED ESB & COMMS DUCT	PROPOSED HYDRANT



Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

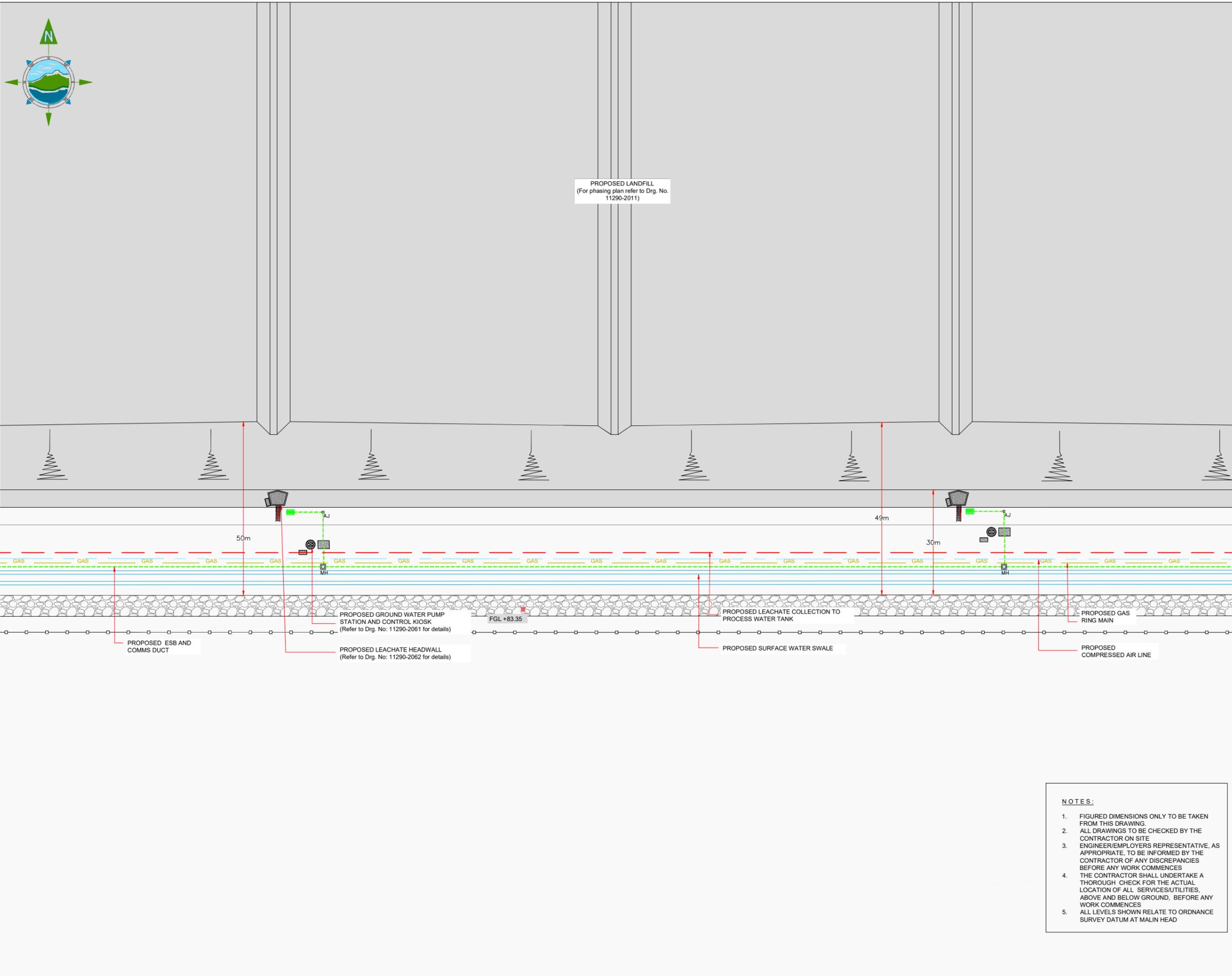
Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
DRAINAGE & UTILITIES LAYOUT PLAN - Sheet 7 of 9 -

Scale @ A1: **1:500**
Prepared by: **M. Nolan** Checked: **R. Hunt** Date: **November 22**
Project Director: **S. Tinnelly**
Drawing Status: **Planning**

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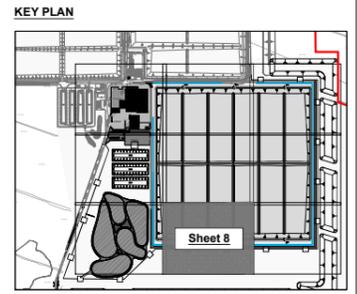
Drawing No.: **11290-2022** Revision: **A**



PROPOSED LANDFILL
(For phasing plan refer to Drg. No. 11290-2011)

GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
PROPOSED SURFACE WATER SWALE	PROPOSED SURFACE WATER FILTER DRAIN
PROPOSED FOUL GRAVITY MAIN	PROPOSED FOUL RISING MAIN
PROPOSED SURFACE WATER NETWORK	PROPOSED LEACHATE COLLECTION NETWORK
PROPOSED WATERMAIN	PROPOSED FIREMAIN
PROPOSED UNDERGROUND CABLE DIVERSION	PROPOSED GAS RING MAIN
PROPOSED ESB & COMMS DUCT	PROPOSED HYDRANT



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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

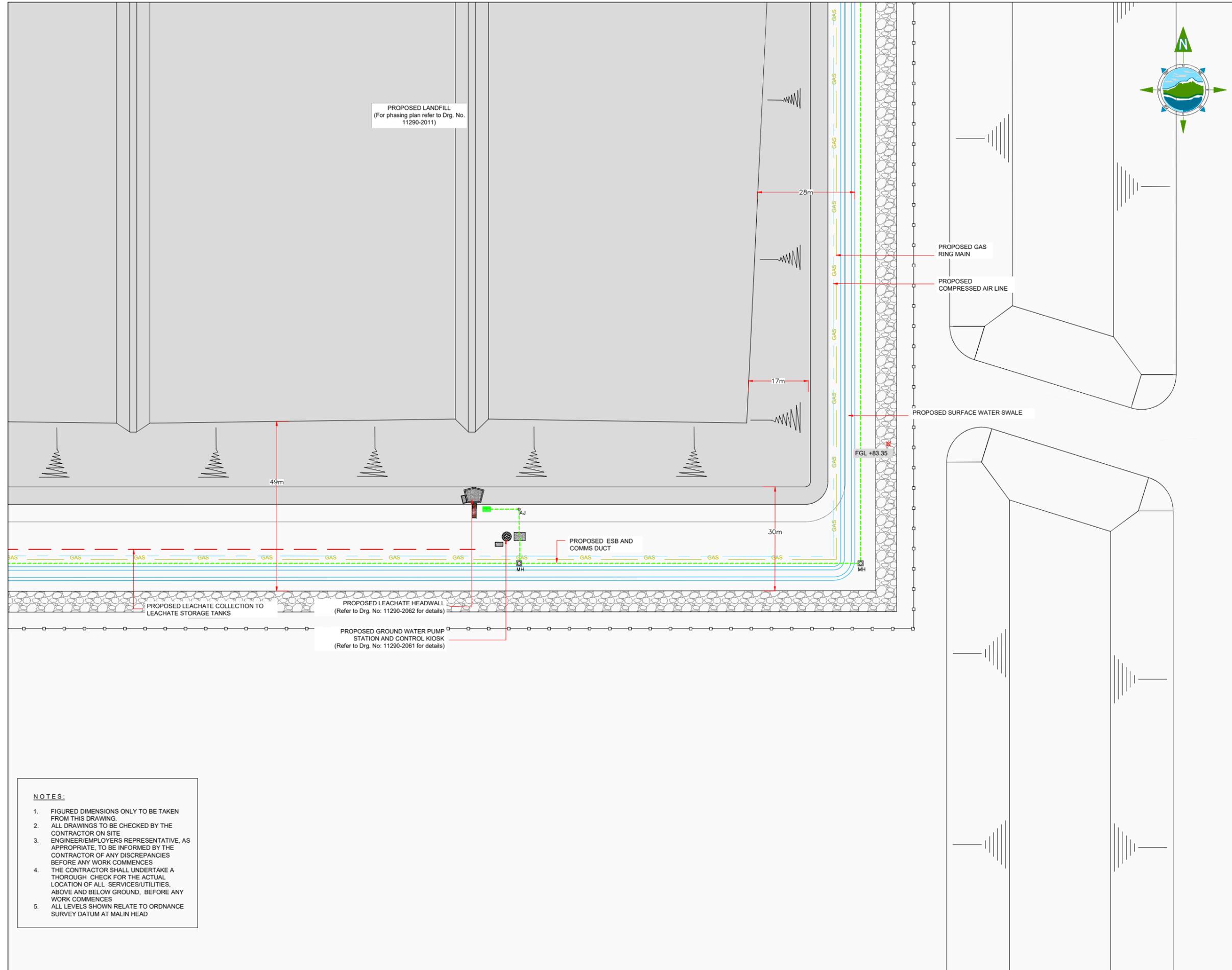
Title:
DRAINAGE & UTILITIES LAYOUT PLAN - Sheet 8 of 9 -

Scale @ A1: 1:500
Prepared by: M. Nolan
Checked: R. Hunt
Date: November 22
Project Director: S. Tinnelly
Drawing Status: Planning

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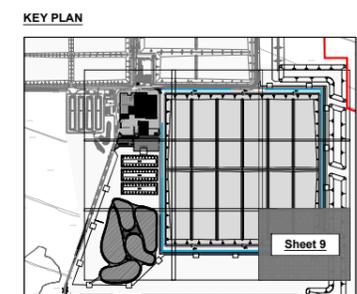
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 - ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

Revision:
Drawing No.: 11290-2023 A



GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
PROPOSED SURFACE WATER SWALE	PROPOSED SURFACE WATER FILTER DRAIN
PROPOSED FOUL GRAVITY MAIN	PROPOSED FOUL RISING MAIN
PROPOSED SURFACE WATER NETWORK	PROPOSED LEACHATE COLLECTION NETWORK
PROPOSED WATERMAIN	PROPOSED FIREMAIN
PROPOSED UNDERGROUND CABLE DIVERSION	PROPOSED GAS RING MAIN
PROPOSED ESB & COMMS DUCT	PROPOSED HYDRANT



Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

- NOTES:**
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 - ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

Client:
Bord na Móna

Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
DRAINAGE & UTILITIES LAYOUT PLAN - Sheet 9 of 9 -

Scale @ A1: **1:500**

Prepared by: **M. Nolan** Checked: **R. Hunt** Date: **November 22**

Project Director: **S. Tinnelly**

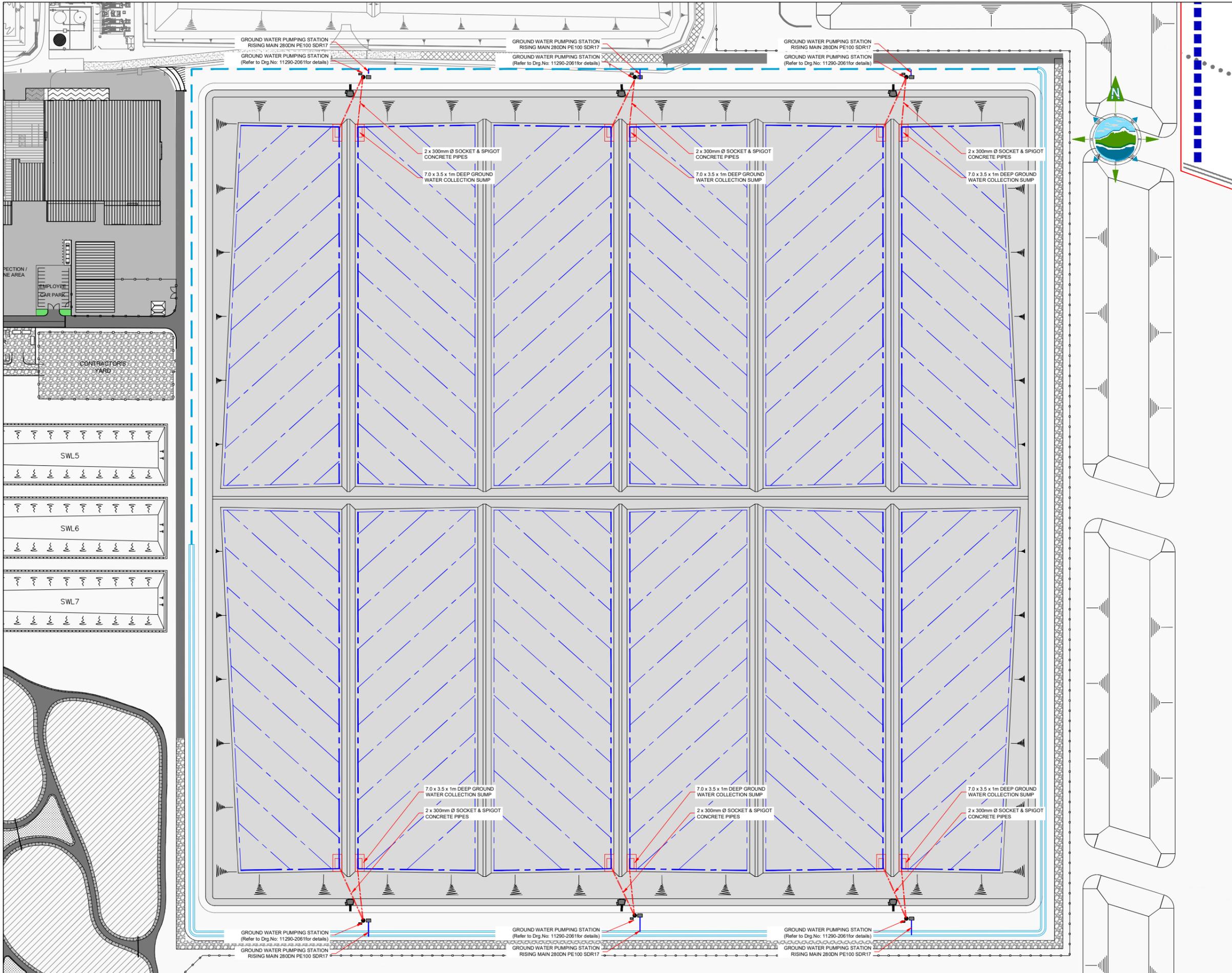
Drawing Status: **Planning**

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Revision: **A**

Drawing No.: **11290-2024**



GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
GROUNDWATER COLLECTION PIPEWORK	SOCKET & SPIGGOT CONCRETE PIPES
GROUND WATER COLLECTION SUMP	SURFACE WATER SWALE

- NOTES:**
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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

Project:
DREHID WASTE MANAGEMENT FACILITY LANDFILL EXTENSION PLANNING APPLICATION

Title:
UNDER CELL DRAINAGE SYSTEMS

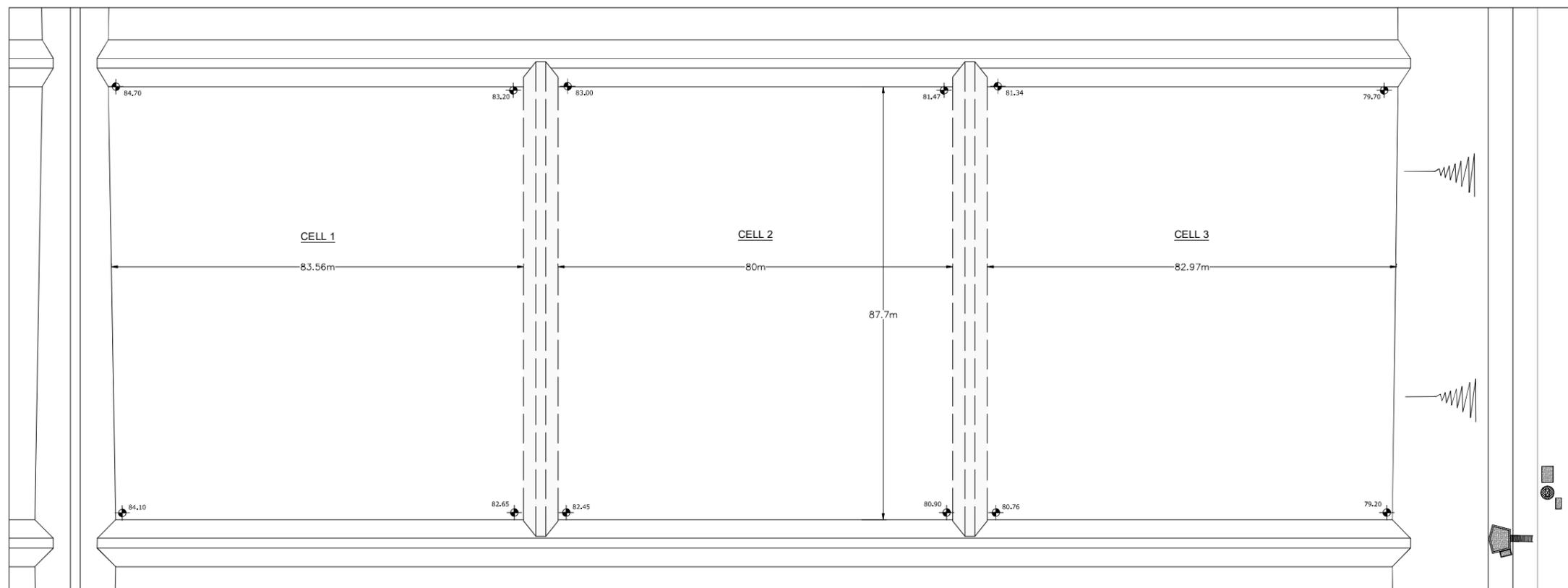
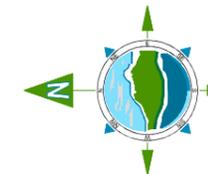
Scale @ A1: 1:1,250

Prepared by: M. Nolan
Checked: R. Hunt
Date: November 22

Project Director: S. Tinnelly
Drawing Status: Planning

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Drawing No.: 11290-2028
Revision: A



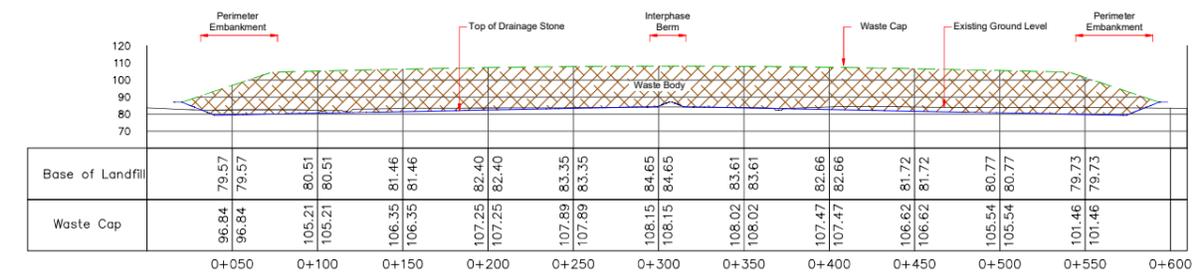
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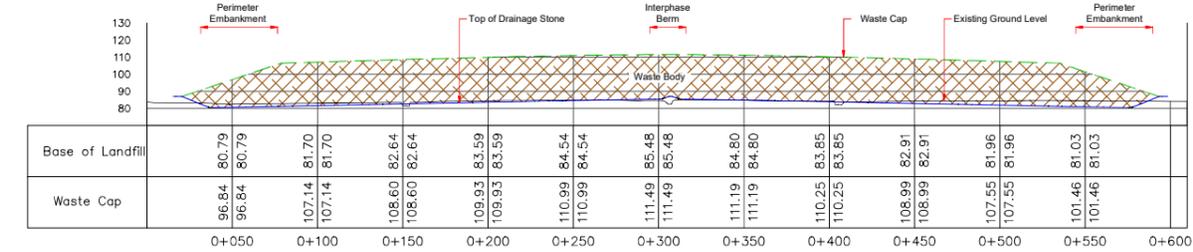
Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

LANDFILL CELL LAYOUT
Scale 1:500

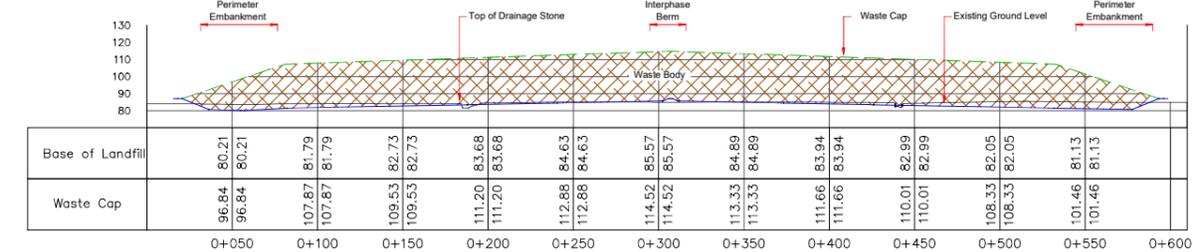
Client:	
Bord na Móna	
Project:	
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT	
Title:	
PROPOSED LANDFILL CELL LAYOUT	
Scale @ A1: 1:500	
Prepared by:	Checked: Date:
M. Nolan	R. Hunt November 22
Project Director: S. Tinnelly	
Drawing Status: Planning	
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Drawing No.: 11290-2030	Revision: A



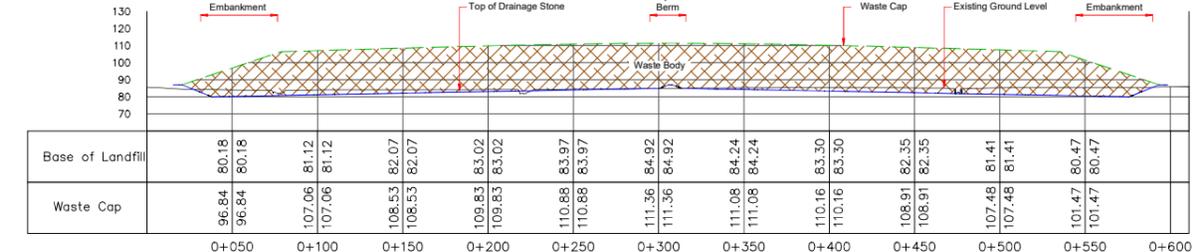
LONGITUDINAL SECTION 1 - 1



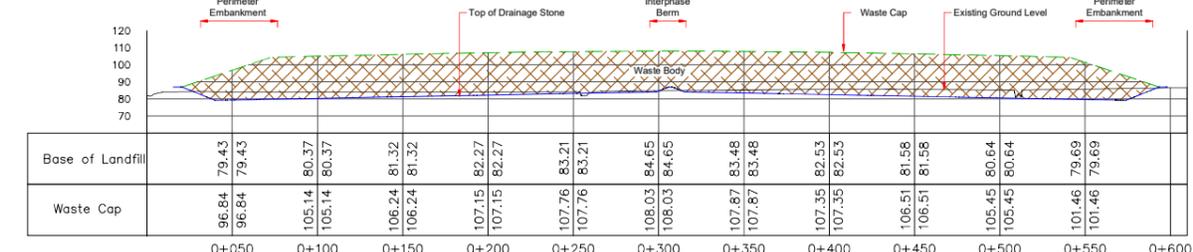
LONGITUDINAL SECTION 2 - 2



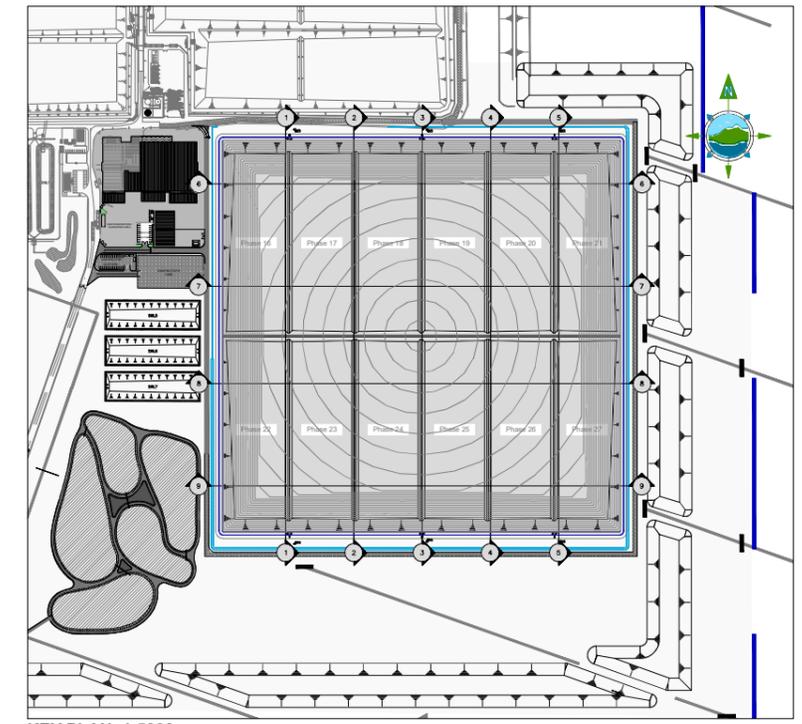
LONGITUDINAL SECTION 3 - 3



LONGITUDINAL SECTION 4 - 4



LONGITUDINAL SECTION 5 - 5



KEY PLAN -1:5000



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A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

Project:
DREHID WASTE
MANAGEMENT FACILITY
FURTHER DEVELOPMENT

Title:
PROPOSED LANDFILL
LONGITUDINAL SECTIONS

Scale @ A1: 1:2,000

Prepared by: M. Nolan
Checked: R. Hunt
Date: November 22

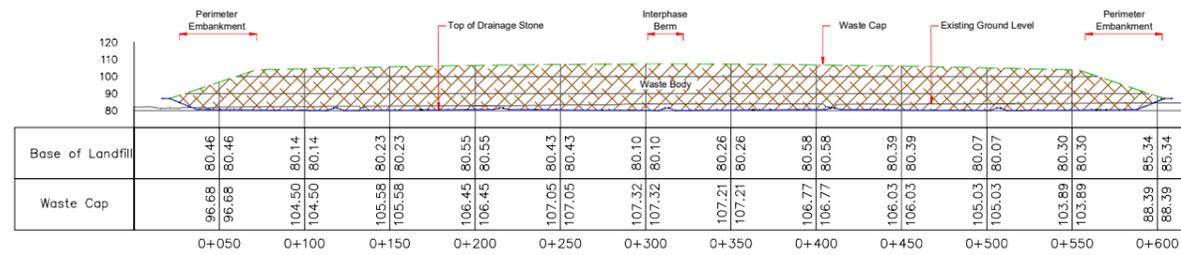
Project Director: S. Tinnelly
Drawing Status: Planning

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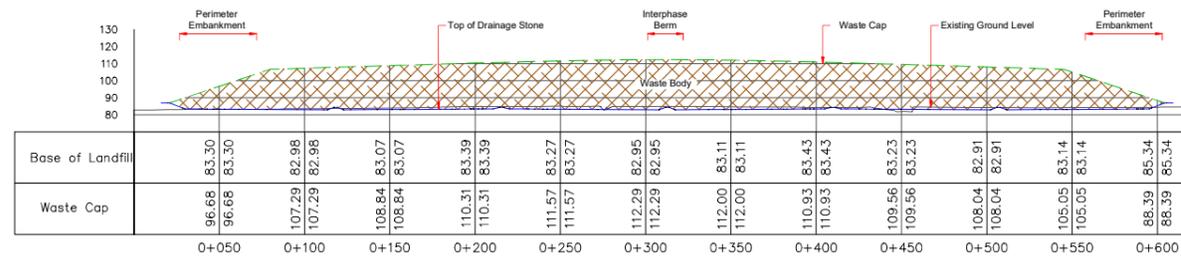
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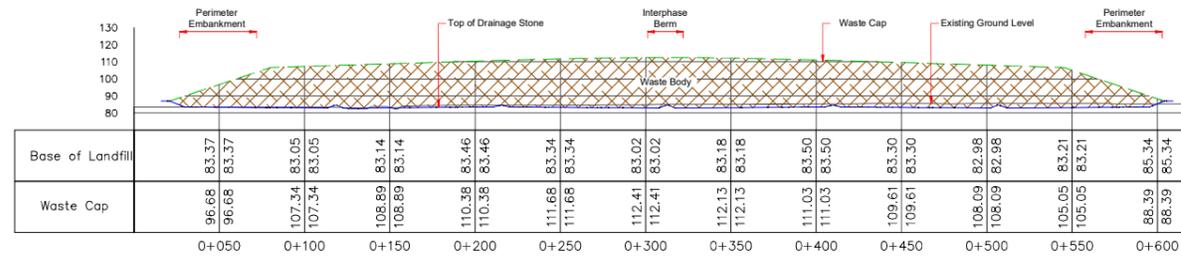
Drawing No.: 11290-2031
Revision: A



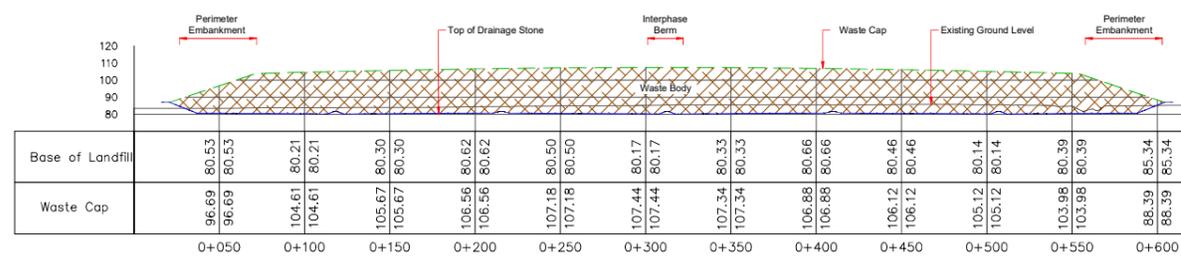
Cross Section 6-6



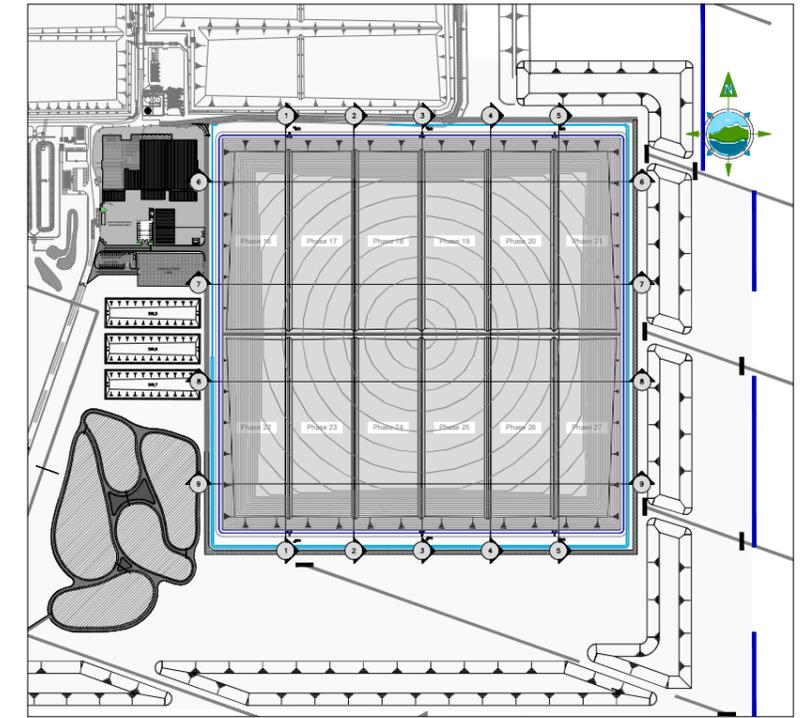
Cross Section 7-7



Cross Section 8-8



Cross Section 9-9



KEY PLAN -1:5000



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A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
PROPOSED LANDFILL CROSS SECTIONS

Scale @ A1: **1:2,000**

Prepared by: **M. Nolan** Checked: **R. Hunt** Date: **November 22**

Project Director: **S. Tinnelly**

Drawing Status: **Planning**

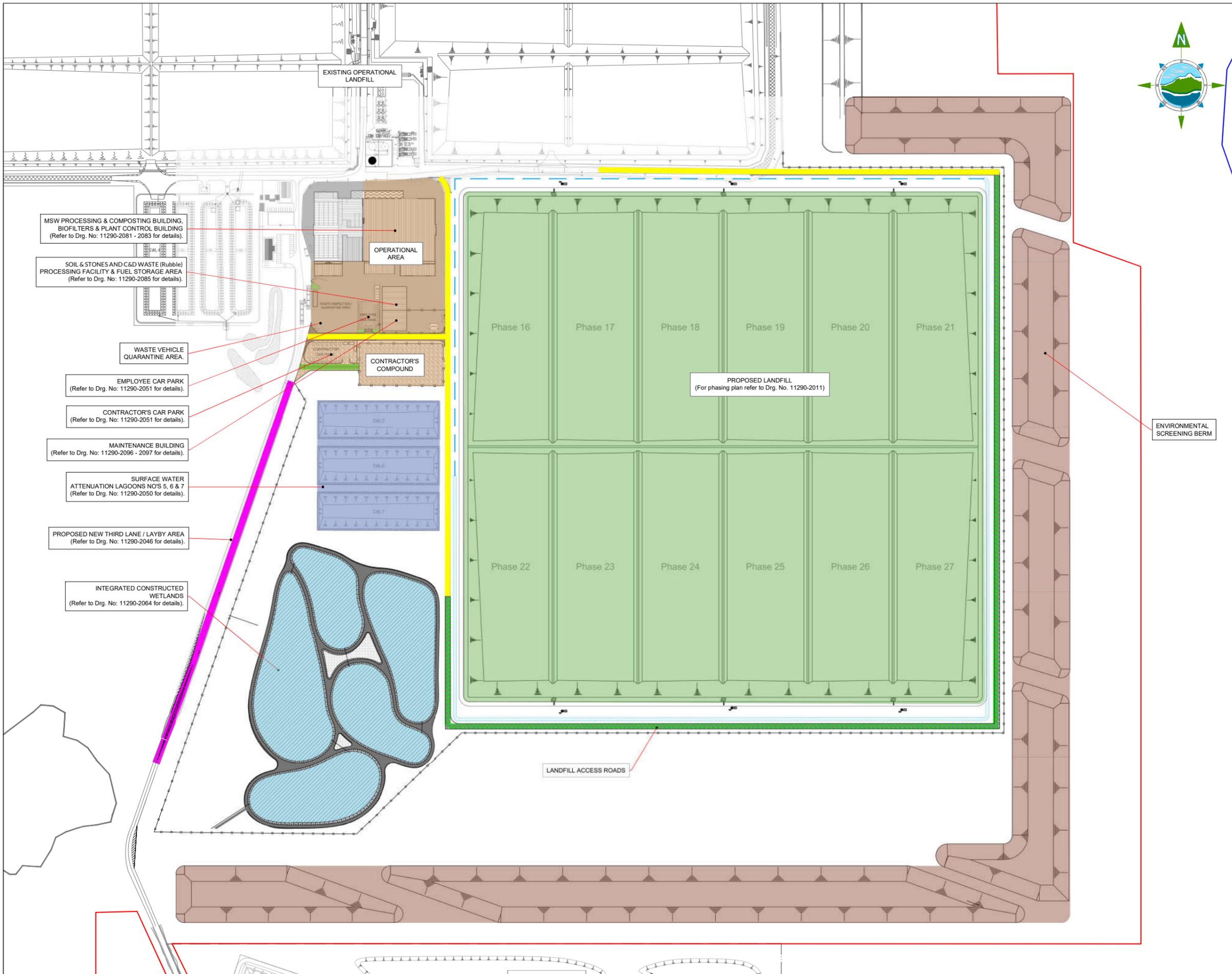
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Drawing No.: **11290-2032**

Revision: **A**



GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
PROPOSED WORKS	EXISTING WORKS
PROPOSED CONCR. HARDSTAND	PROPOSED GRAVEL SURFACE
EXISTING FACILITY	PROPOSED LANDFILL EXTENTS
PRP CONTRACTOR'S AREA	PRP SETTLEMENT LAGOONS
PRP ENGINEERED WETLANDS	PROPOSED SCREENING BERM
EXISTING SURFACED TRACK	EXISTING UNSURFACED HAUL ROAD
PROPOSED SURFACED HAUL ROAD	PROPOSED UNSURFACED HAUL ROAD
PROPOSED BITUMEN SURFACED ADDITIONAL LANE	

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Scale: 40m 0m 40m 80m 160m

Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

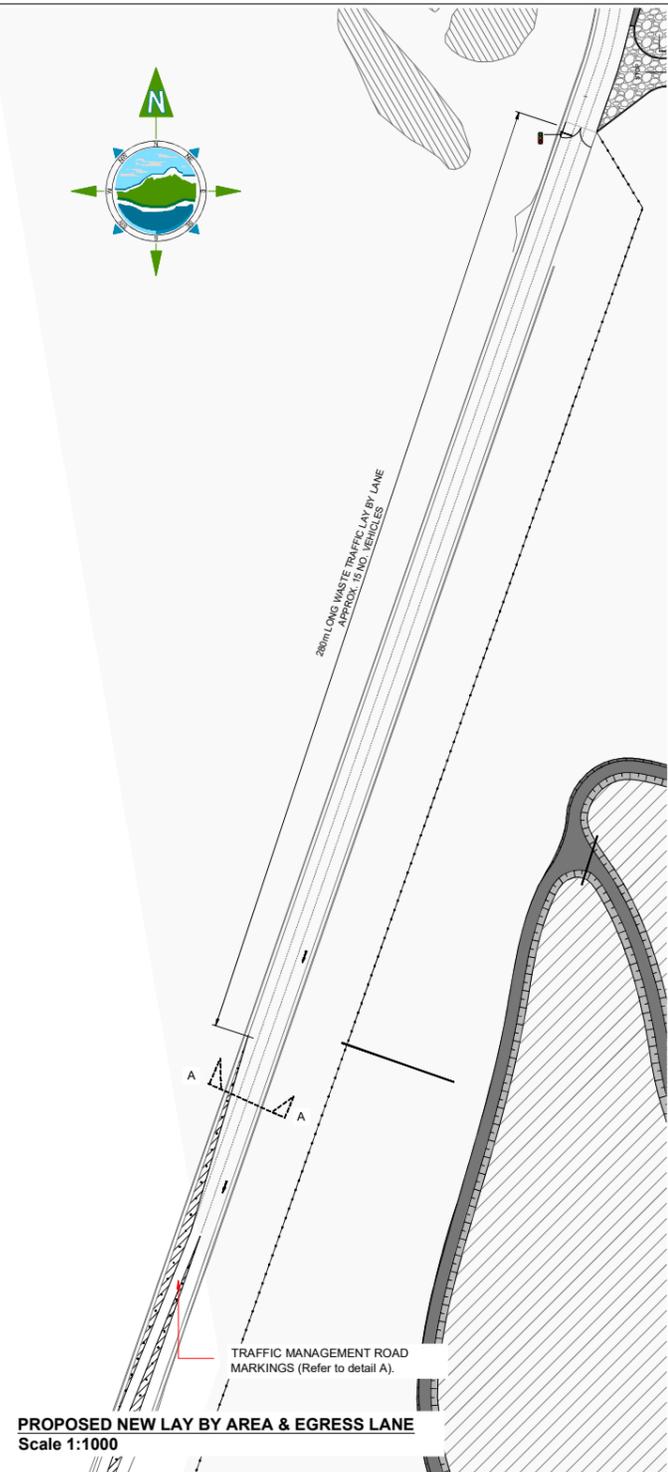
Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
PROPOSED ROADS KEY PLAN

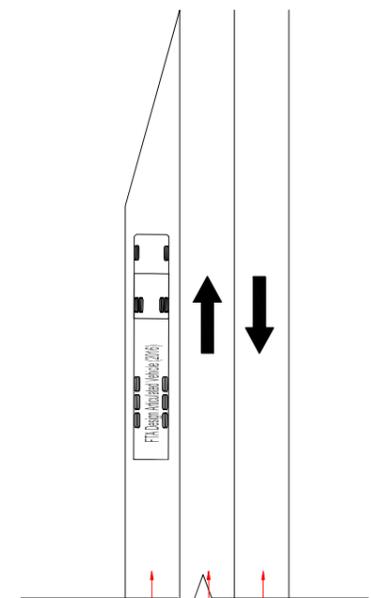
Scale @ A1: 1:2,000
 Prepared by: M. Nolan Checked: R. Hunt Date: November 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

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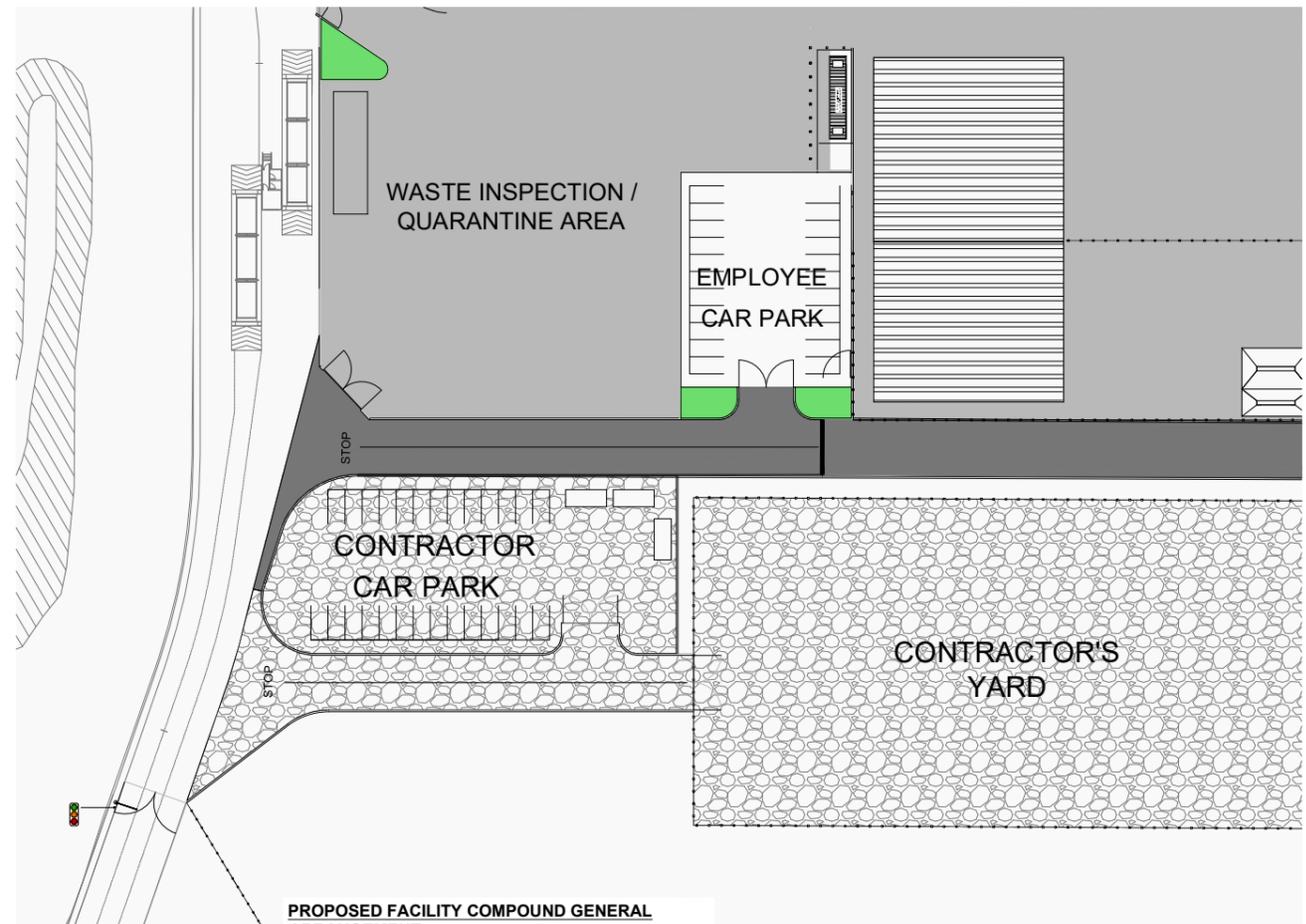
Drawing No.: 11290-2045 Revision: A



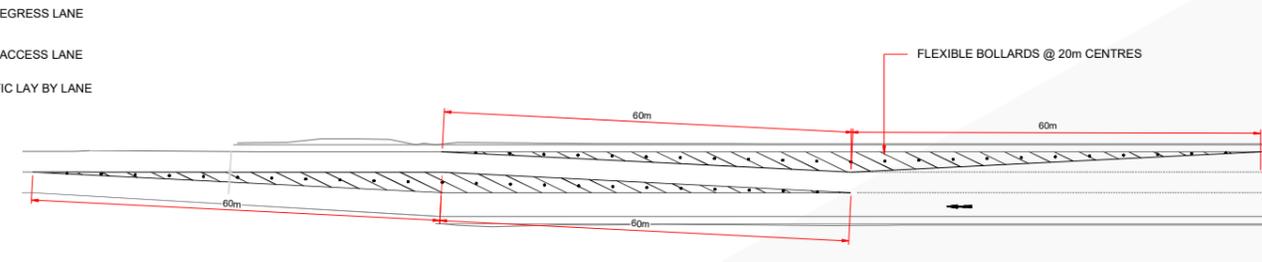
PROPOSED NEW LAY BY AREA & EGRESS LANE
Scale 1:1000



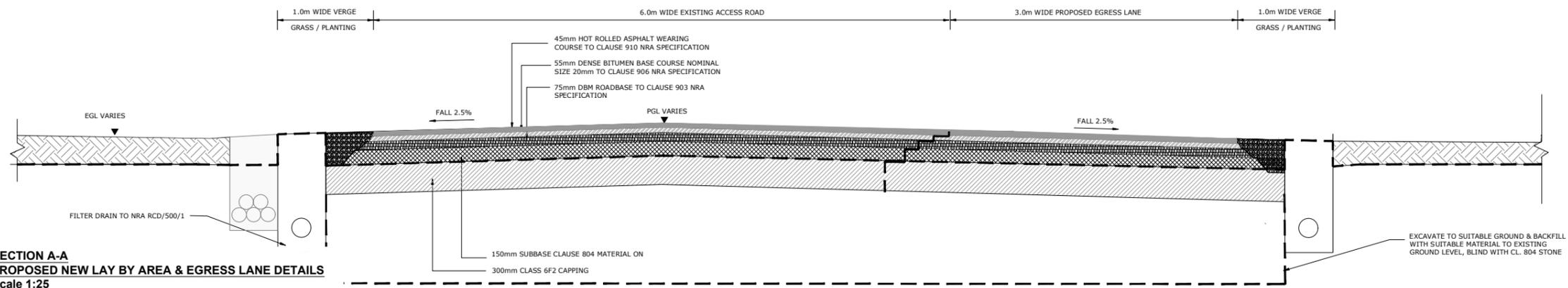
PROPOSED NEW LANE ARRANGEMENT
NTS



PROPOSED FACILITY COMPOUND GENERAL ARRANGEMENT
Scale 1:500



DETAIL A - PROPOSED TRAFFIC MANAGEMENT ROAD MARKINGS
Scale 1:500



SECTION A-A PROPOSED NEW LAY BY AREA & EGRESS LANE DETAILS
Scale 1:25

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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
PROPOSED WASTE TRAFFIC LAYBY & NEW SITE EGRESS LANE

Scale @ A1: As Shown

Prepared by: M. Nolan
Checked: R. Hunt
Date: October 22

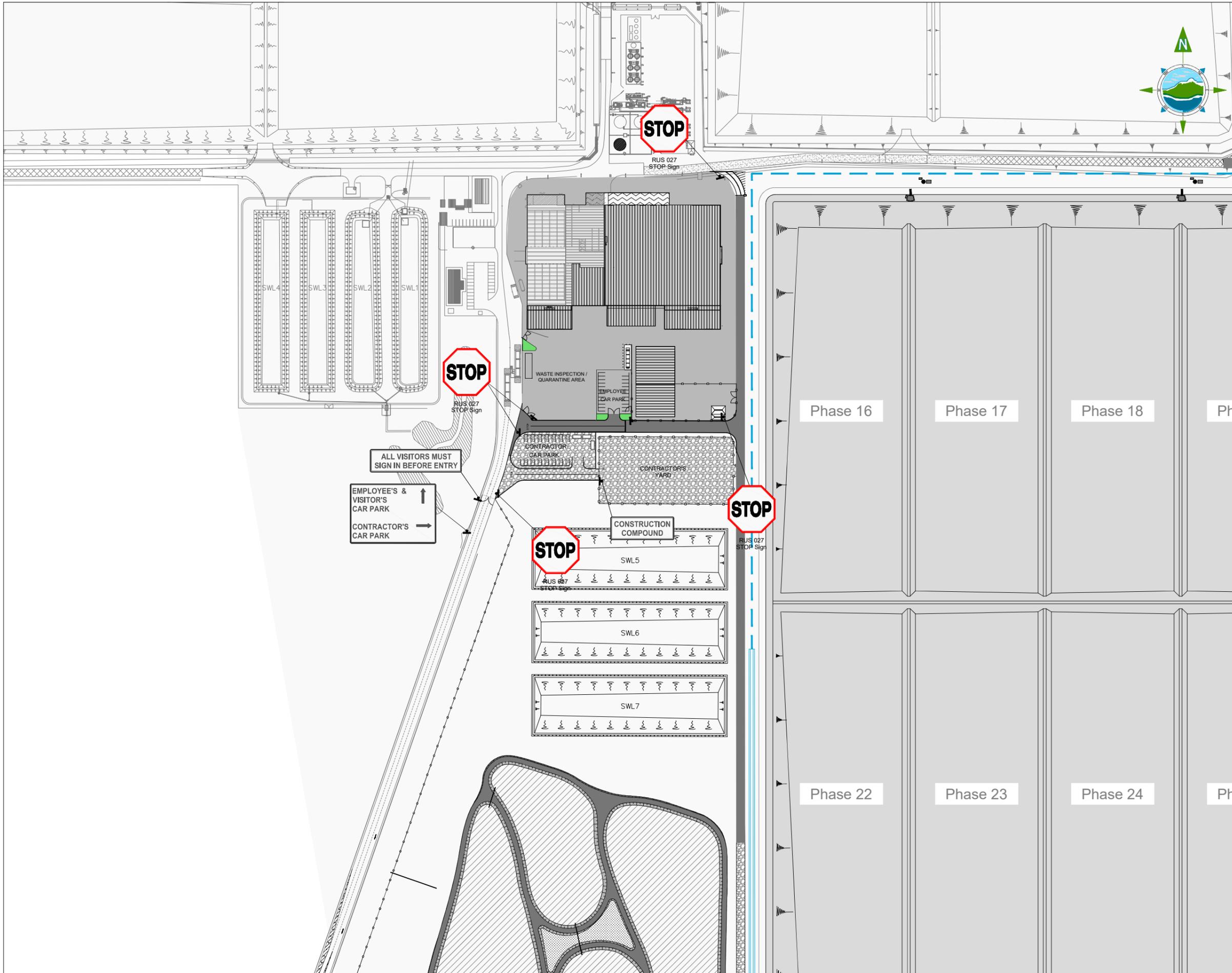
Project Director: S. Tinnelly

Drawing Status: Planning

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Drawing No.: 11290-2046
Revision: A



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A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

Project:
 DREHID WASTE
 MANAGEMENT FACILITY
 FURTHER DEVELOPMENT

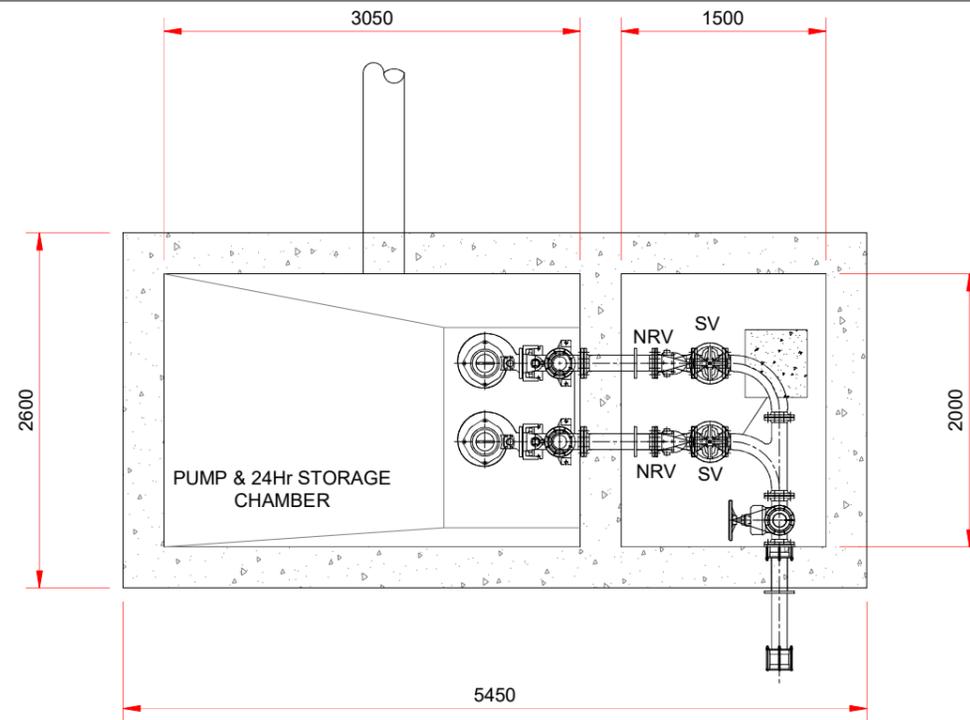
Title:
 ROAD MARKINGS &
 SIGNAGE

Scale @ A1: 1:1,250
 Prepared by: M. Nolan
 Checked: R. Hunt
 Date: October 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

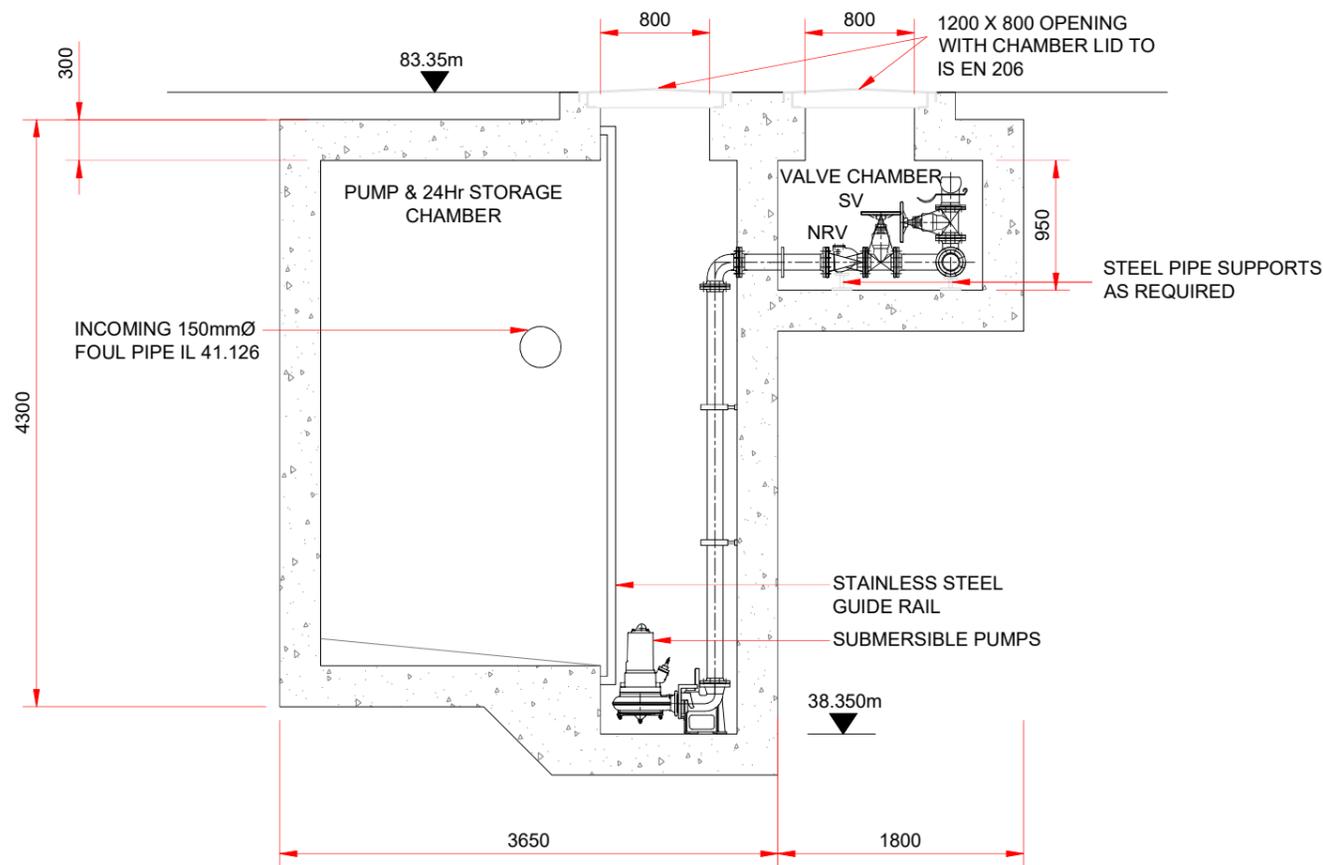
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Drawing No.: 11290-2047 A



FOUL PUMPING STATION - PLAN



FOUL PUMPING STATION - ELEVATION

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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	PF	RH

Client:

Bord na Móna

Project:

DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:

FOUL WATER PUMP STATION DETAILS

Scale @ A1: 1:25

Prepared by: P. Fanning Checked: R. Hunt Date: December 22

Project Director: S. Tinnelly

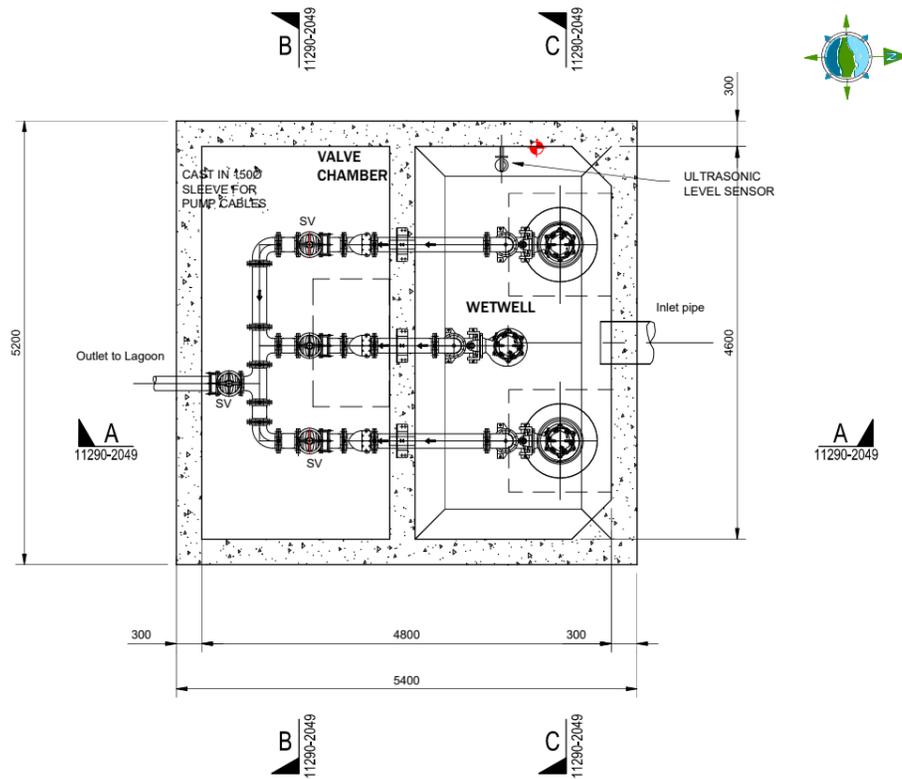
Drawing Status: Planning

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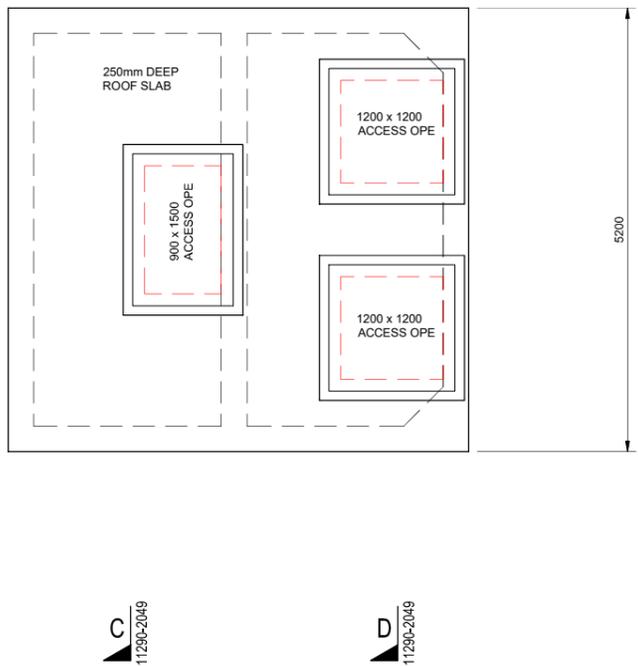
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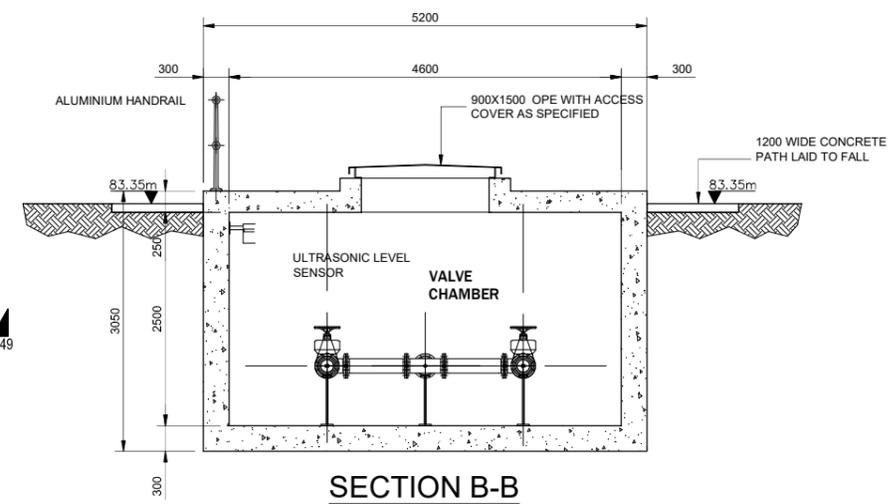
PUMPING STATION (underground) - PLAN

ALL ACCESS COVERS TO BE GALVANISED MILD STEEL CHEQUER PLATE DOUBLE SEAL GAS ASSISTED COVERS WITH SAFETY GRID AND SECURITY LOCKING

1600X1200 CLEAR OPE ROOF LIGHT OVER

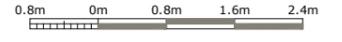


PLAN ON PRESSURE VESSEL CHAMBER & PUMPING STATION ROOF

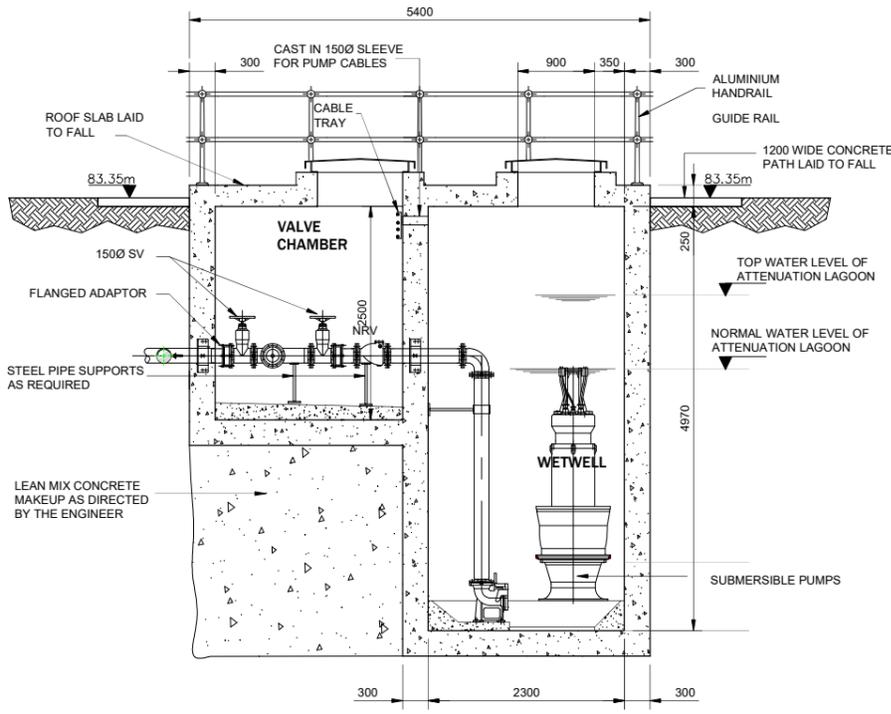


SECTION B-B

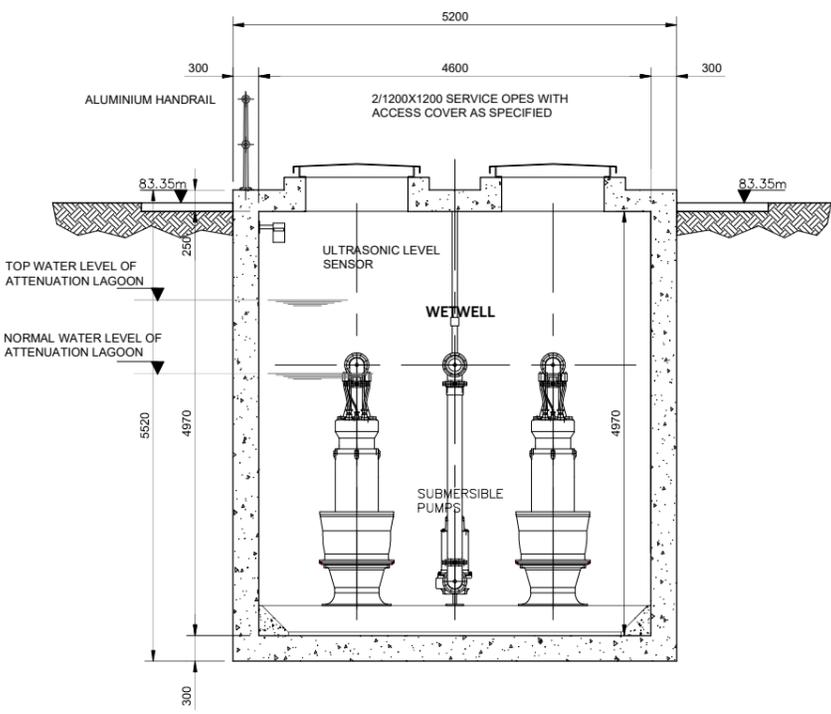
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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	PF	RH



SECTION A-A



SECTION C-C

Client:
Bord na Móna

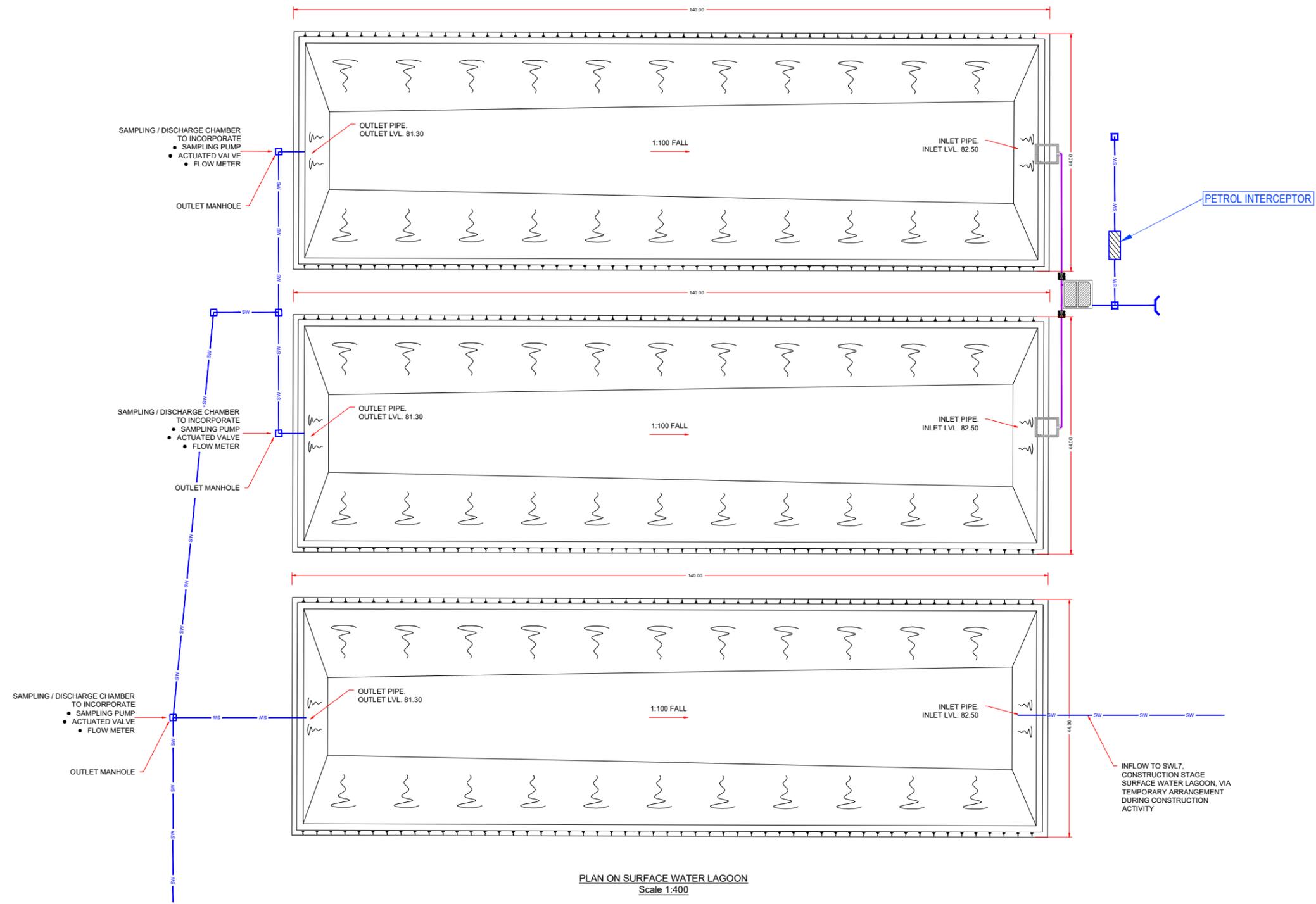
Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
SURFACE WATER PUMP STATION DETAILS

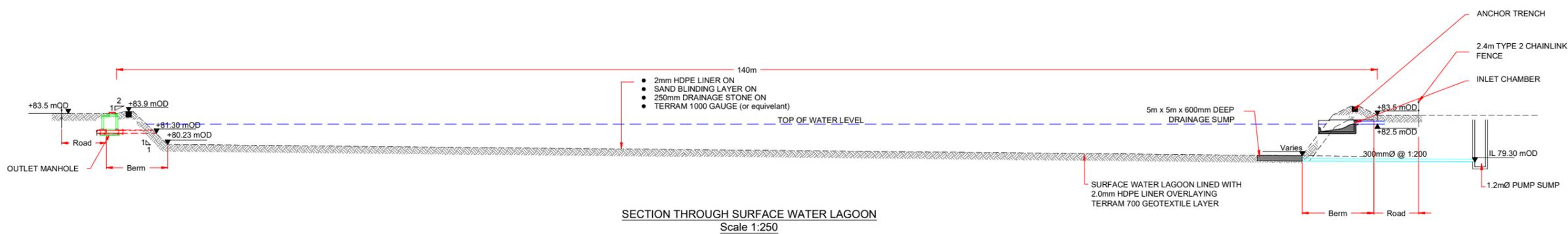
Scale @ A1: 1:40
Prepared by: P. Fanning
Checked: R. Hunt
Date: November 22
Project Director: S. Tinnelly
Drawing Status: Planning

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Drawing No.: 11290-2049
Revision: A



PLAN ON SURFACE WATER LAGOON
Scale 1:400



SECTION THROUGH SURFACE WATER LAGOON
Scale 1:250

Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

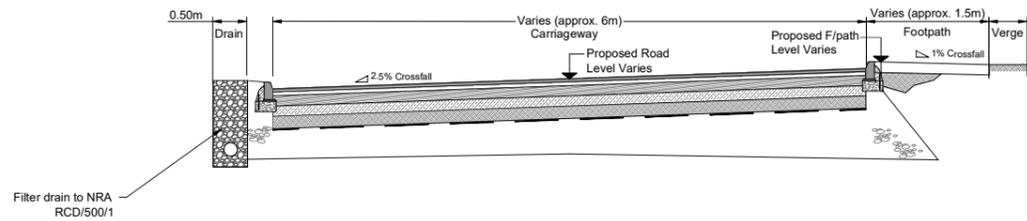
Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
ATTENUATION LAGOONS PLAN & SECTION

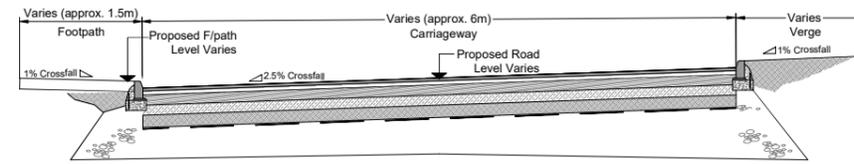
Scale @ A1: As Shown
Prepared by: M. Nolan
Checked: R. Hunt
Date: November 22
Project Director: S. Tinnelly
Drawing Status: Planning

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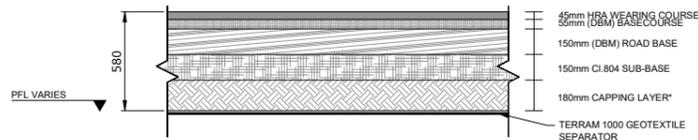
Drawing No.: 11290-2050
Revision: A



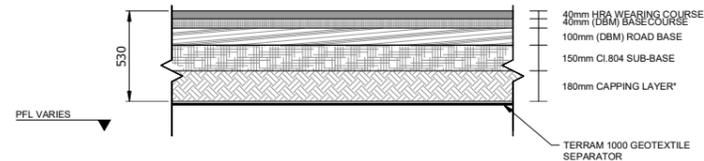
ROAD CROSS SECTION WITH FILTER DRAIN
SCALE 1:50



ROAD CROSS-SECTION
SCALE 1:50

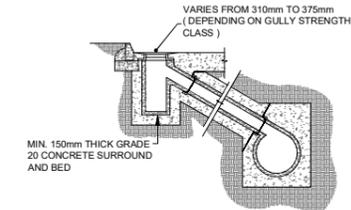


A ROAD CONSTRUCTION
SCALE 1:20



B CARPARK CONSTRUCTION
SCALE 1:20

*NOTE: CAPPING LAYER IS DEPENDENT ON CBR TESTS.



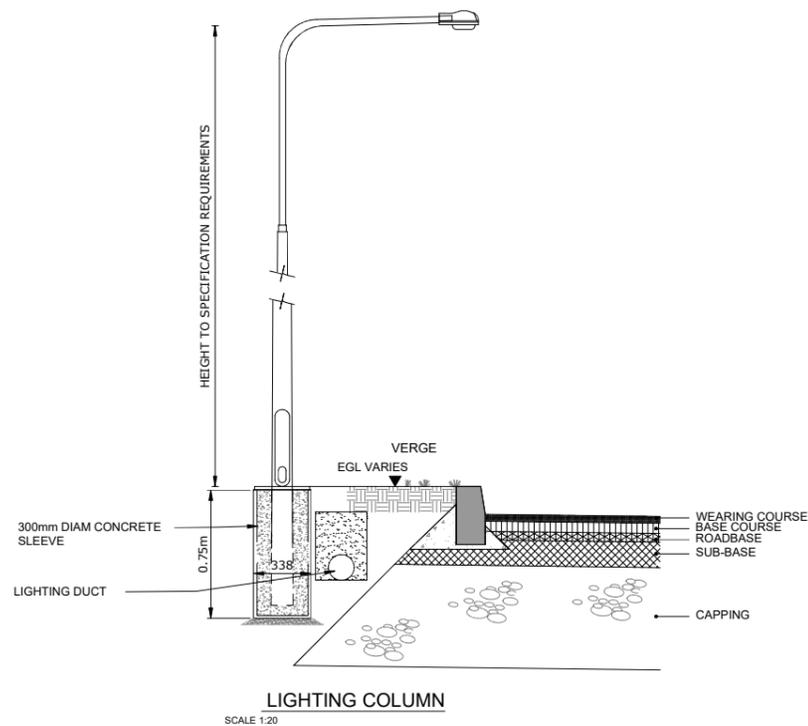
NOTE 1 : TRAPPED GULLIES TO BE USED WHERE CONNECTED TO A COMBINED SEWER
NOTE 2 : FOR STRENGTH CLASS OF GULLY REFER TO EN 124 : 1994, CLAUSE 5

C GULLY CONSTRUCTION
SCALE 1:20

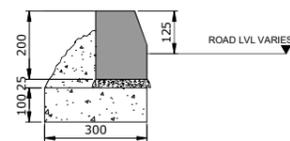
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5. ALL LEVELS SHOWN RELATE TO ORDINANCE SURVEY DATUM AT MALIN HEAD.

Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

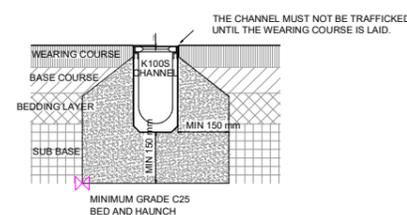


LIGHTING COLUMN
SCALE 1:20

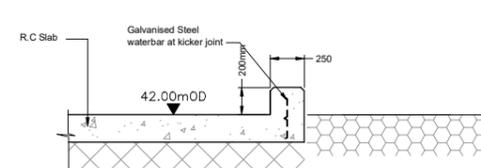


TYPE 2 - EDGE RESTRAINT
CARPARK/LIGHT VEHICLES

EDGE RESTRAINT DETAILS
SCALE 1:10



INSTALLATION EXAMPLE
FLEXIBLE PAVEMENT
SCALE 1:10



BUND WALL DETAIL SURROUNDING
HARDSTAND & SRF STORAGE AREA
Scale 1:25

Client:

Bord na Móna

Project:

**DREHID WASTE
MANAGEMENT FACILITY
FURTHER DEVELOPMENT**

Title:

**CAR PARK &
ROAD CONSTRUCTION DETAILS**

Scale @ A1: **As Shown**

Prepared by: **M. Nolan** Checked: **R. Hunt** Date: **November 22**

Project Director: **S. Tinnelly**

Drawing Status: **Planning**

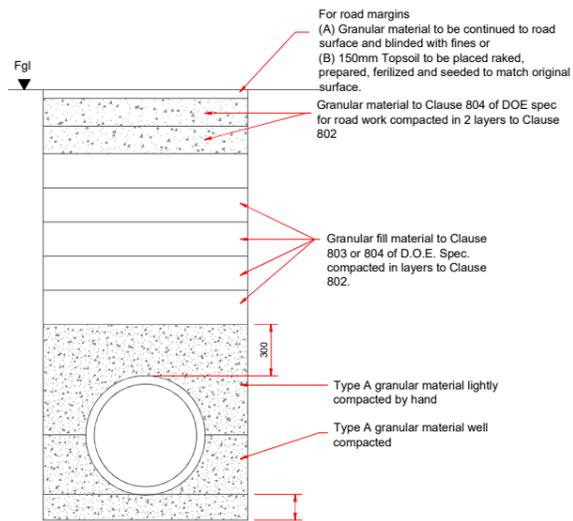
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Drawing No.: **11290-2051**

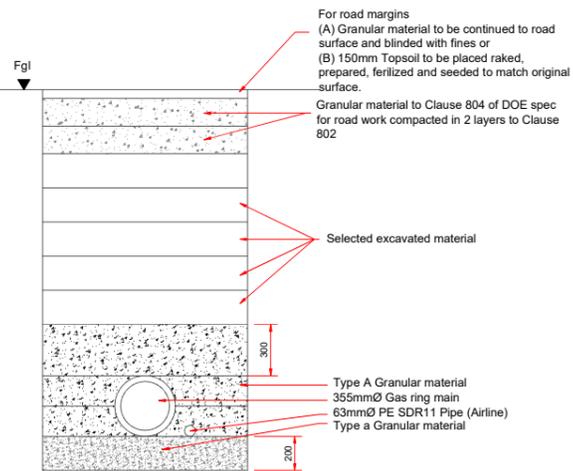
Revision: **A**



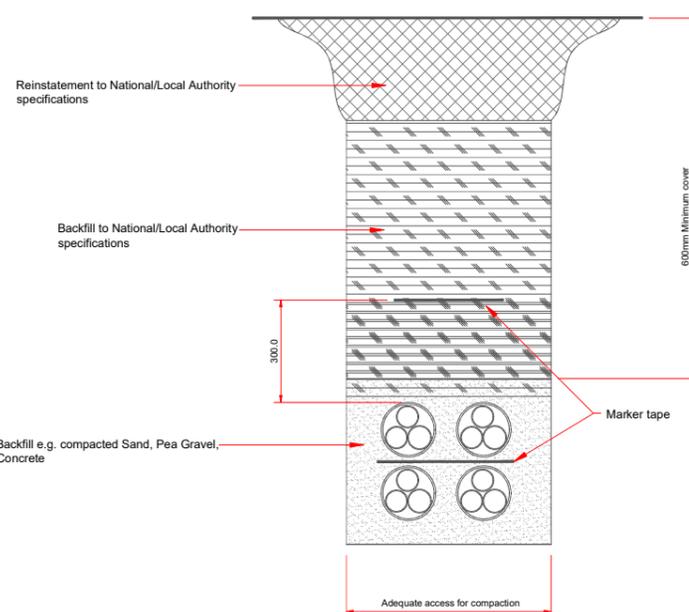
NOTE
 "Y"=150 for pipes up to 300Ø
 "Y"=200 for pipes from 375Ø to 1200Ø
 In rock or mixed soils containing boulders or hard spots dimension "Y" shall be increased by 100

TRENCH IN ROAD AND ROAD MARGINS

SCALE 1:20

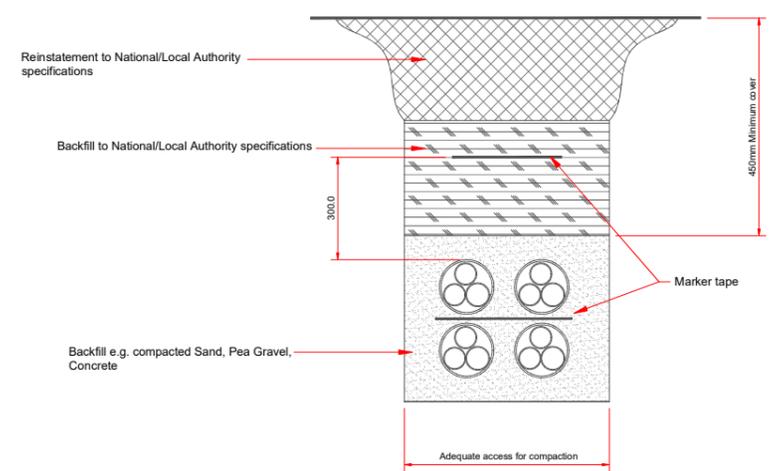


TRENCH FOR GAS RING MAIN



TRENCH IN ACCESS ROAD/ADMINISTRATION AREA

SCALE 1:10



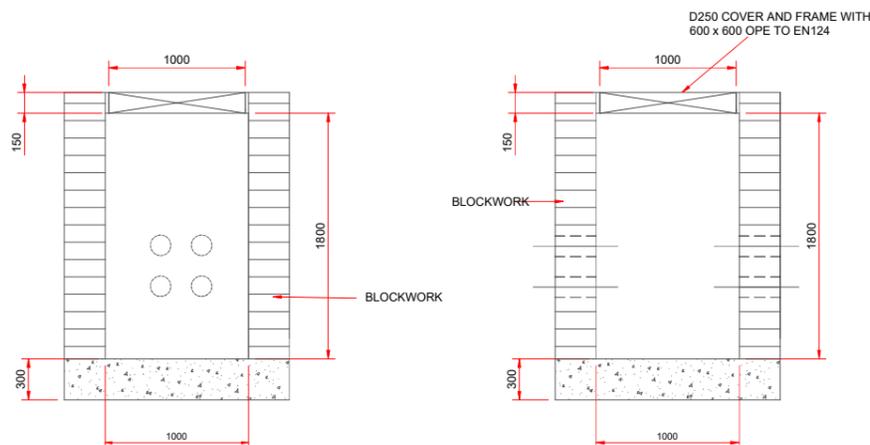
TRENCH IN FOOTWAYS, PAVEMENTS, VERGES

SCALE 1:10

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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

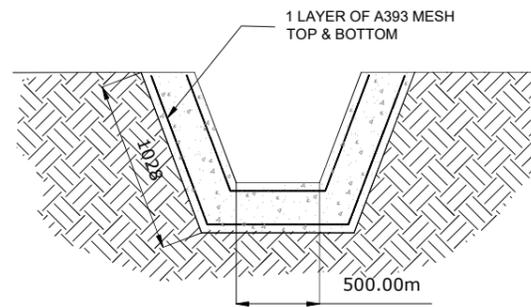


SECTION 1-1 THROUGH BLOCKWORK DUCT CHAMBER

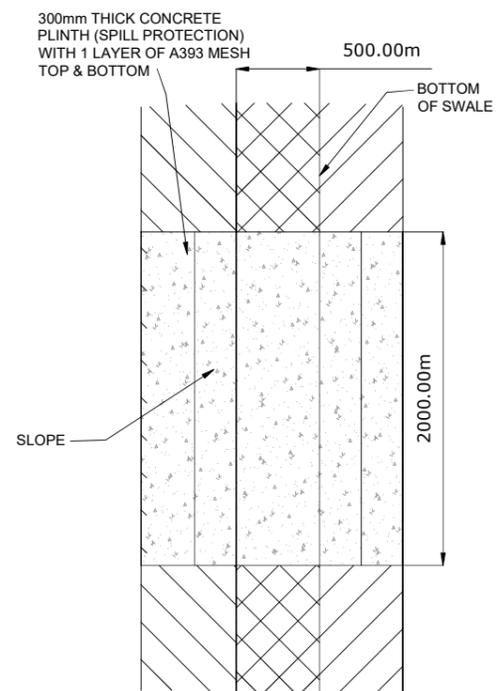
SCALE 1:25

SECTION 2-2 THROUGH BLOCKWORK DUCT CHAMBER

SCALE 1:25

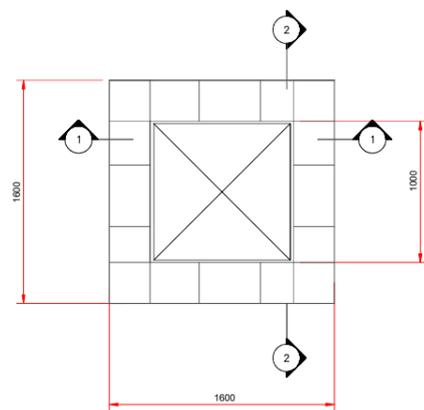


SECTION THROUGH SWALE CONCRETE PLINTH



PLAN OF SWALE CONCRETE PLINTH

SCALE 1:20



PLAN ON BLOCKWORK DUCT CHAMBER

SCALE 1:25

Client:
Bord na Móna

Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
TRENCH BEDDING & SWALE DETAILS

Scale @ A1: **As Shown**

Prepared by: **M. Nolan** Checked: **R. Hunt** Date: **November 22**

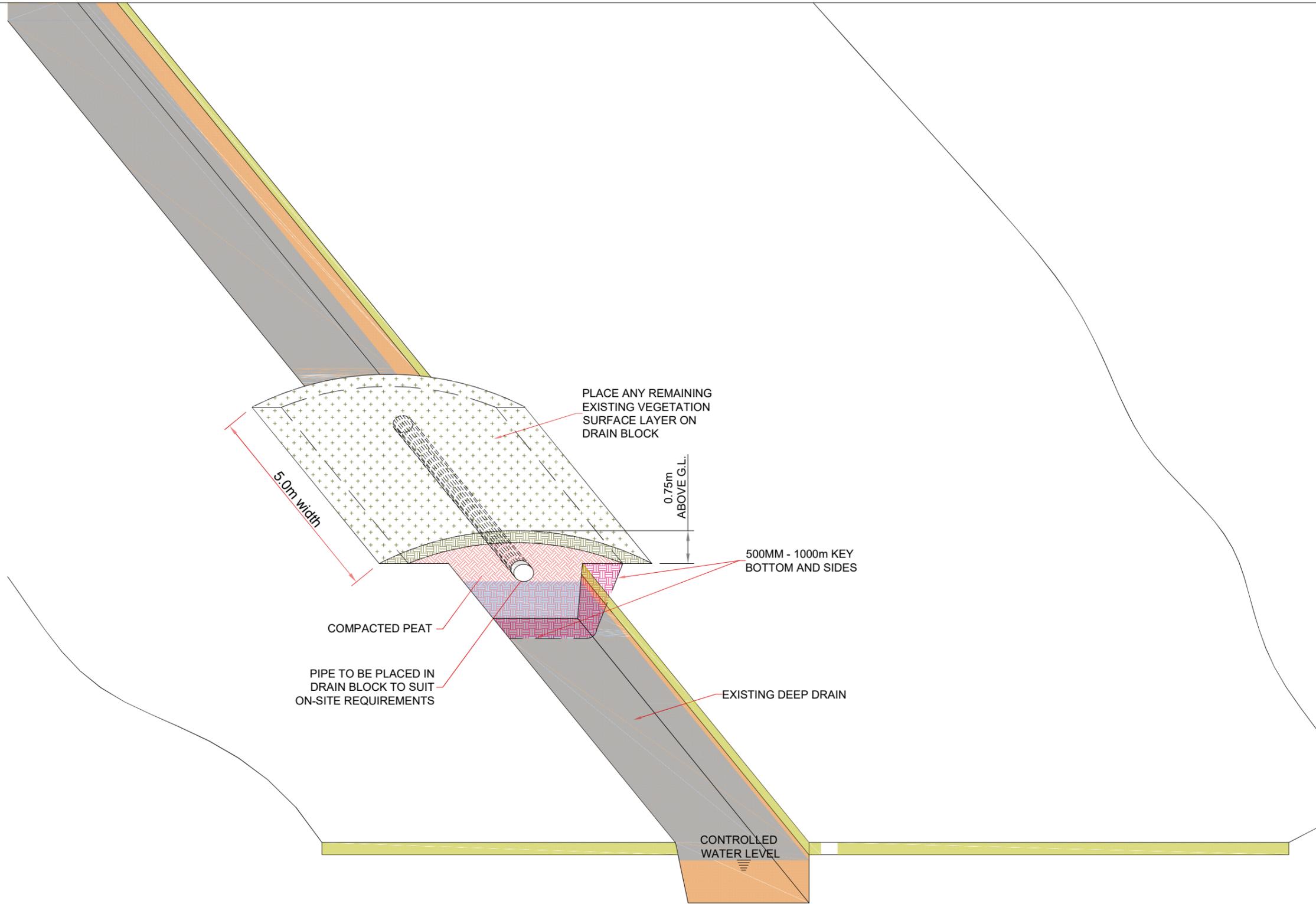
Project Director: **S. Tinnelly**

Drawing Status: **Planning**

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Drawing No.: **11290-2054** Revision: **A**



PLACE ANY REMAINING EXISTING VEGETATION SURFACE LAYER ON DRAIN BLOCK

5.0m width

0.75m ABOVE G.L.

500MM - 1000m KEY BOTTOM AND SIDES

COMPACTED PEAT

PIPE TO BE PLACED IN DRAIN BLOCK TO SUIT ON-SITE REQUIREMENTS

EXISTING DEEP DRAIN

CONTROLLED WATER LEVEL

**PROPOSED PIPE CONTROL DAM
DEEP DRAIN BLOCK WHERE
PIPE INSTALLED TO CONTROL
WATER LEVEL**

Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

Project:
DREHID WASTE
MANAGEMENT FACILITY
FURTHER DEVELOPMENT

Title:
PROPOSED PIPE CONTROL DAM
DETAILS

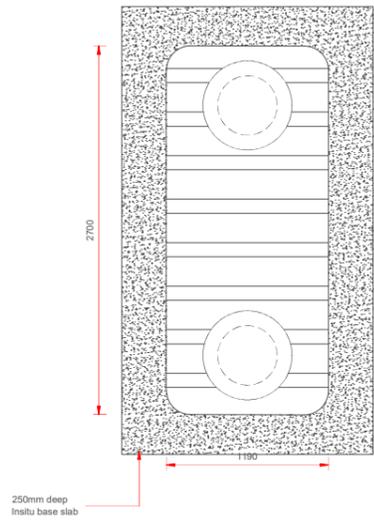
Scale @ A1: 1:50
Prepared by: M. Nolan
Checked: R. Hunt
Date: November 22
Project Director: S. Tinnelly
Drawing Status: Planning

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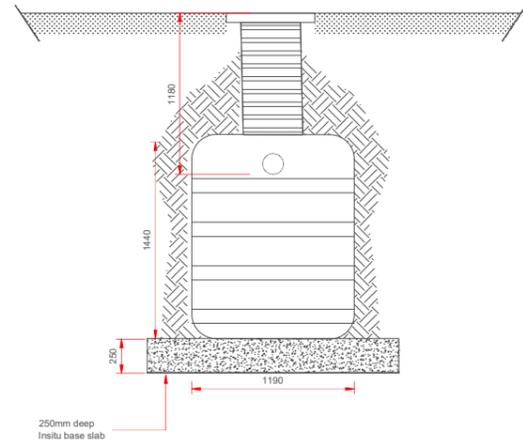
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Drawing No.: 11290-2058

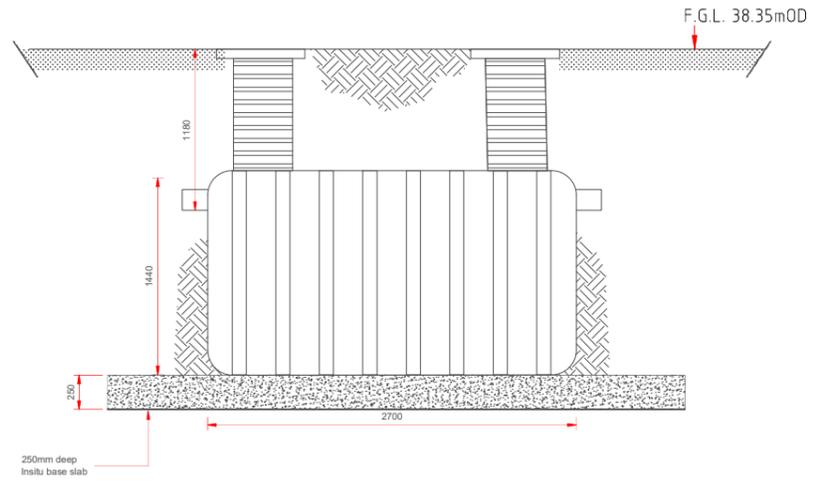
Revision:
A



**PRIMARY TREATMENT TANK
- PLAN**
Scale 1:25



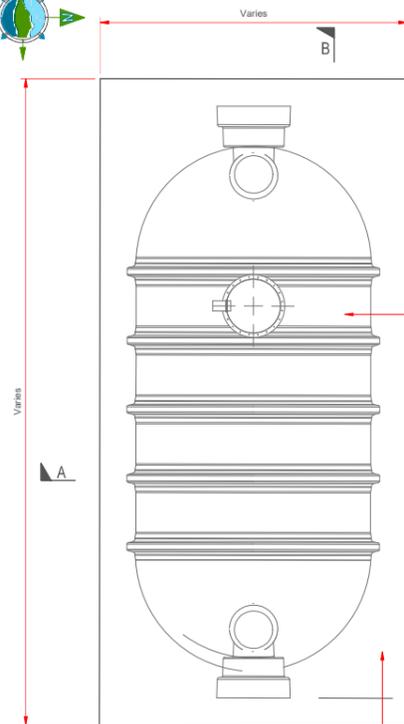
SECTION A-A
Scale 1:25



SECTION B-B
Scale 1:25



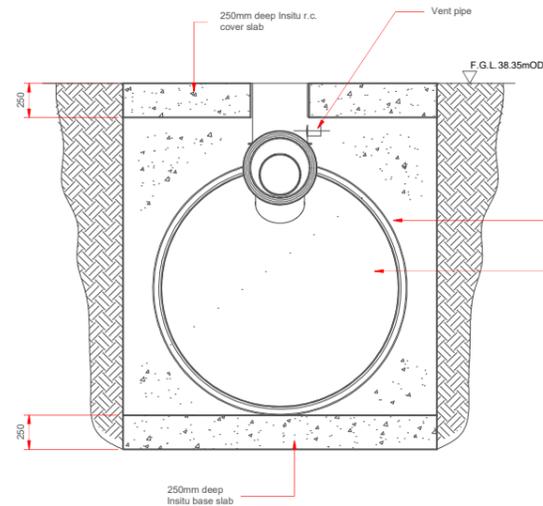
Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH



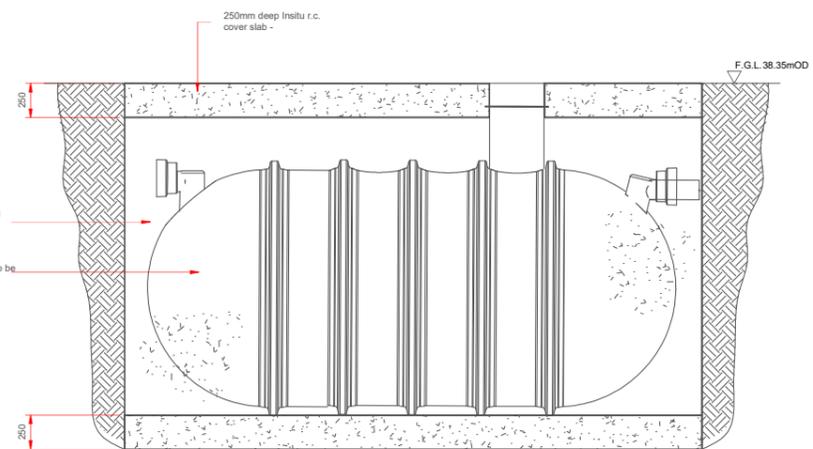
OIL INTERCEPTOR - PLAN
Scale 1:25

Class 1 bypass separator to be installed to manufacturers recommendations

250mm deep Insitu r.c. cover slab



SECTION A-A
Scale 1:25



SECTION B-B
Scale 1:25

Client:
Bord na Móna

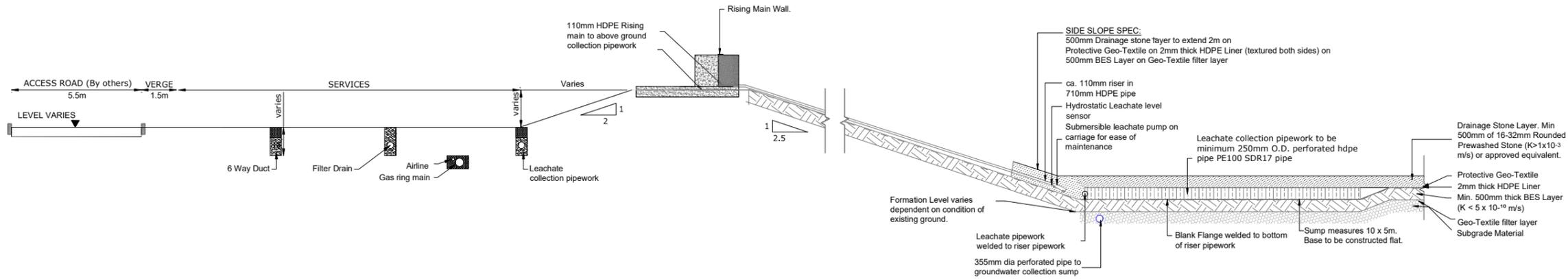
Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
PRIMARY TREATMENT TANK & OIL INTERCEPTOR DETAILS

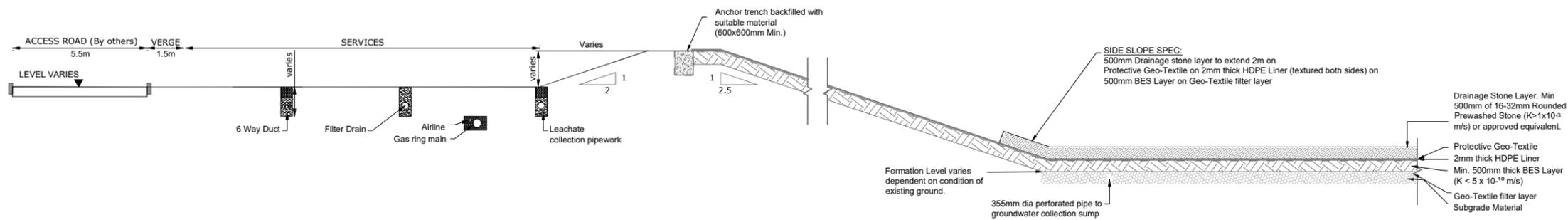
Scale @ A1: 1:25
Prepared by: M. Nolan
Checked: R. Hunt
Date: November 22
Project Director: S. Tinnelly
Drawing Status: Planning

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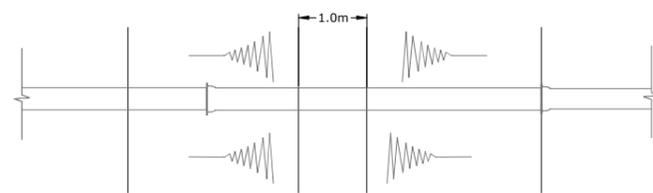
Drawing No.: 11290-2059
Revision: A



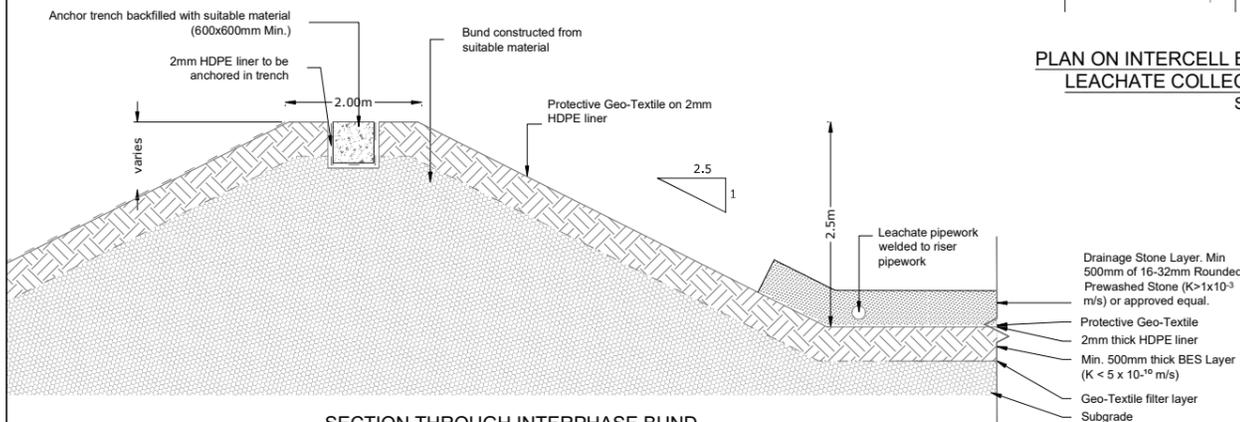
SECTION THROUGH LEACHATE SUMP AND UPSLOPE RISER



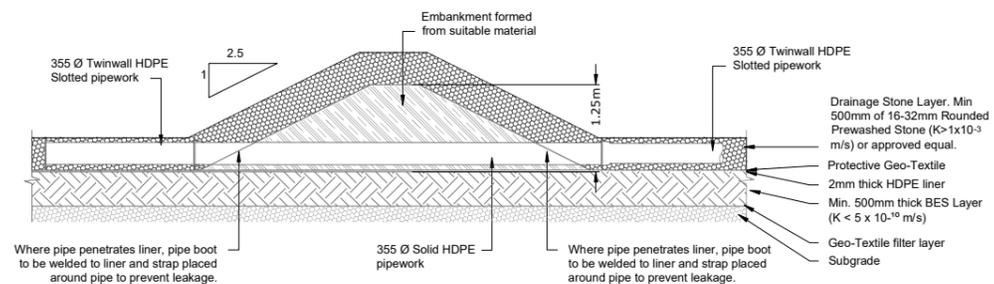
SECTION THROUGH BERM



PLAN ON INTERCELL BUND AT LOCATIONS WHERE LEACHATE COLLECTION PIPEWORK PASSES
Scale 1:50



SECTION THROUGH INTERPHASE BUND
Scale 1:50



SECTION THROUGH INTERCELL BUND AT LOCATIONS WHERE LEACHATE COLLECTION PIPEWORK PASSES
Scale 1:50

NOTES:

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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:

Bord na Móna

Project:

DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:

EMBANKMENT & LINER DETAILS

Scale @ A1: 1:100 or As Shown

Prepared by: M. Nolan
Checked: R. Hunt
Date: November 22

Project Director: S. Tinnelly

Drawing Status: Planning

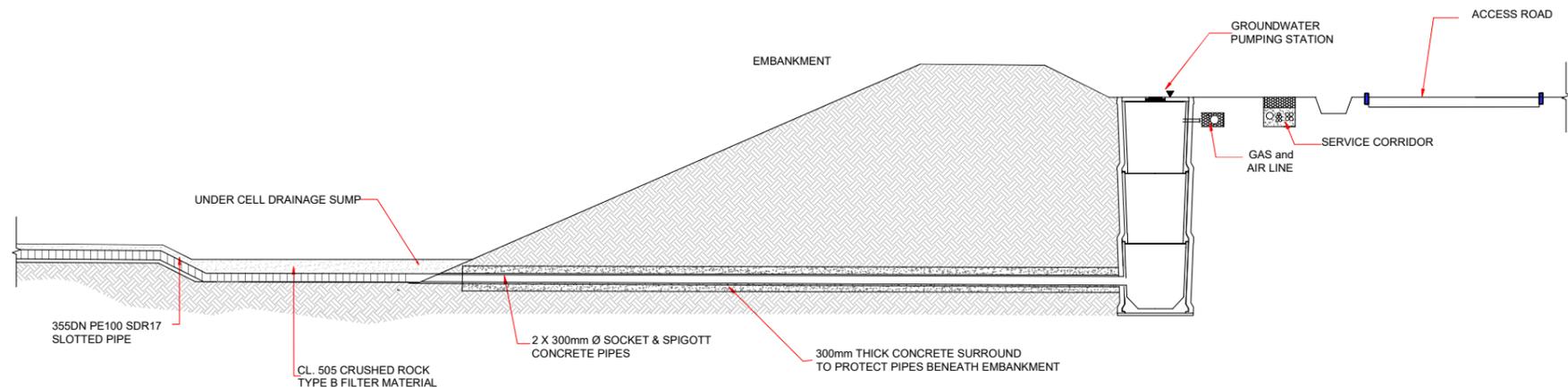
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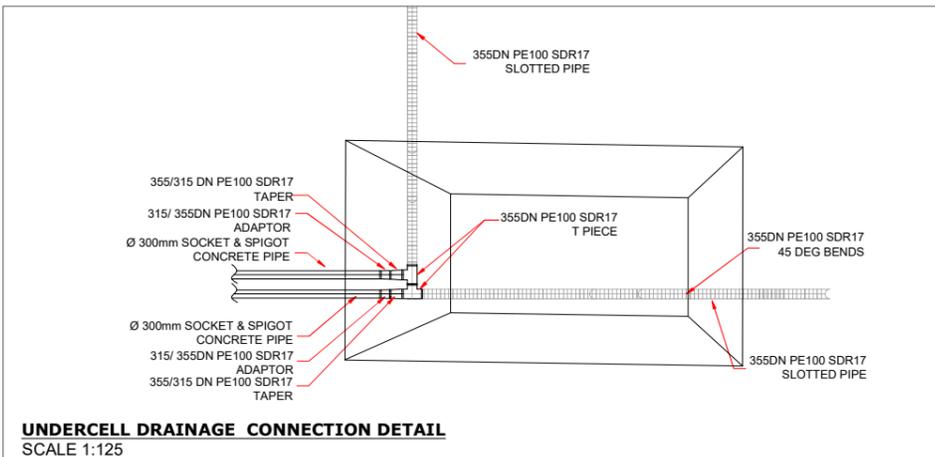
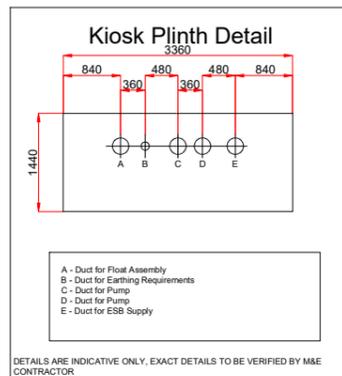
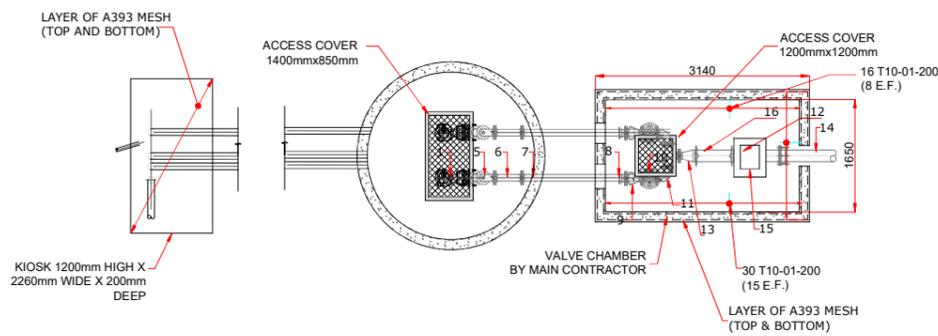
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Drawing No.: 11290-2060

Revision: A



SECTION THROUGH GROUNDWATER PUMPING STATION
SCALE 1:125

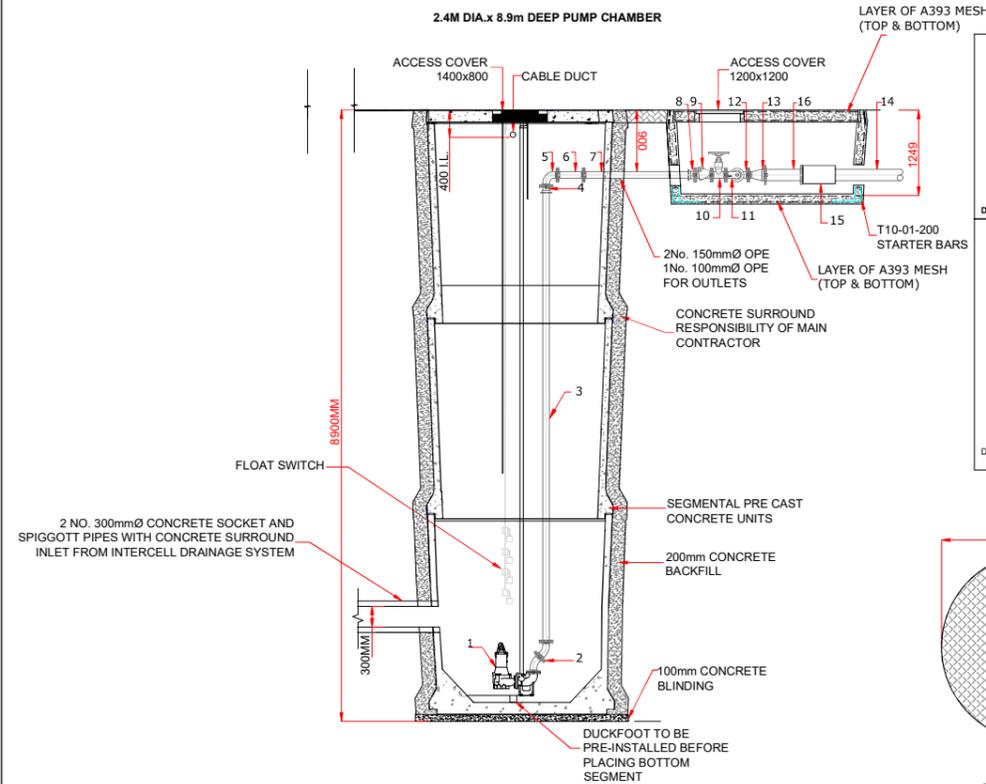


UNDERCELL DRAINAGE CONNECTION DETAIL
SCALE 1:125

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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH



Material List - Internal Pipe Work

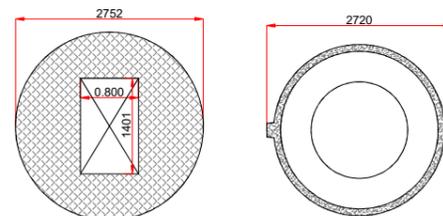
Item	Description
1	Submersible Pump
2	Flanged 45° Bend
3	Flanged pipe one end x 6670mm Long
4	Flange Adapter
5	Flanged 90° S.R. Elbow
6	Flanged Pipe x 400mm Long

DIMENSIONS TO BE VERIFIED BY M&E CONTRACTOR

Material List - External Pipe Work

Item	Description
7	Flanged pipe one end x 1310mm long
8	Flange Adapter
9	Non Return Valve
10	Gate Valve
11	Flanged 90° S.R. Elbow
12	Equal Tee
13	Concentric Taper
14	Flanged Pipe one end x 1000mm Long
15	Flow Meter
16	Flanged Pipe x 500mm Long

DIMENSIONS TO BE VERIFIED BY M&E CONTRACTOR



NOTES:

- MULTIPLE INSTANCES ON SITE FOR NORTH POINT REFER TO DRG. NO: 11290-2010

PUMP STATION DETAILS
SCALE 1:50

Client:
Bord na Móna

Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
GROUNDWATER PUMP STATION DETAILS

Scale @ A1: As Shown

Prepared by: M. Nolan
Checked: R. Hunt
Date: November 22

Project Director: S. Tinnelly

Drawing Status: Planning

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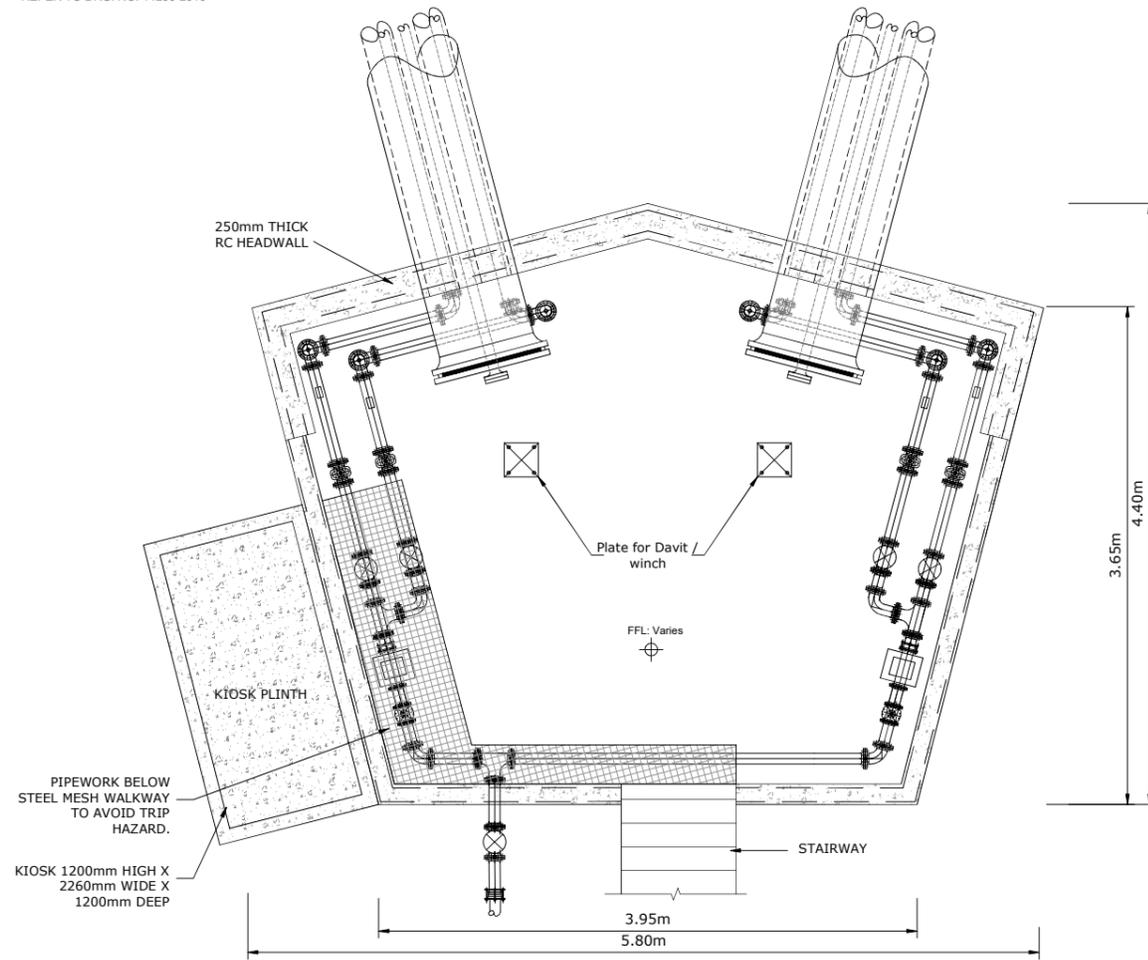
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Drawing No.: 11290-2061

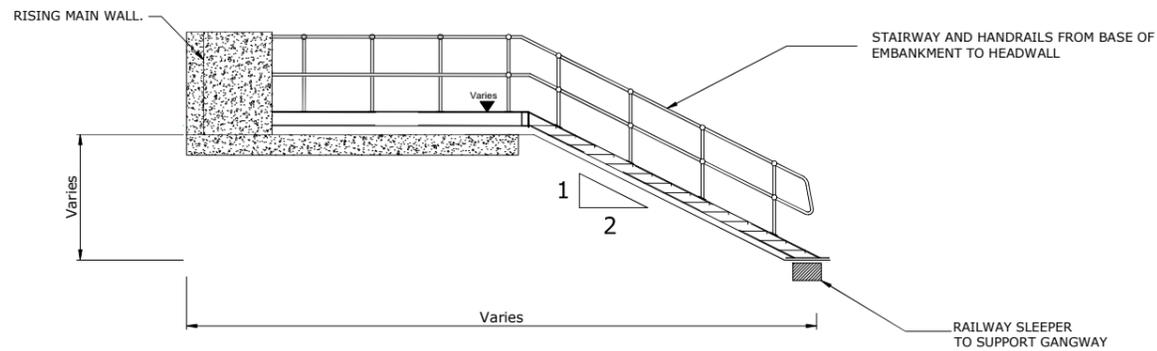
Revision: A

NOTES:

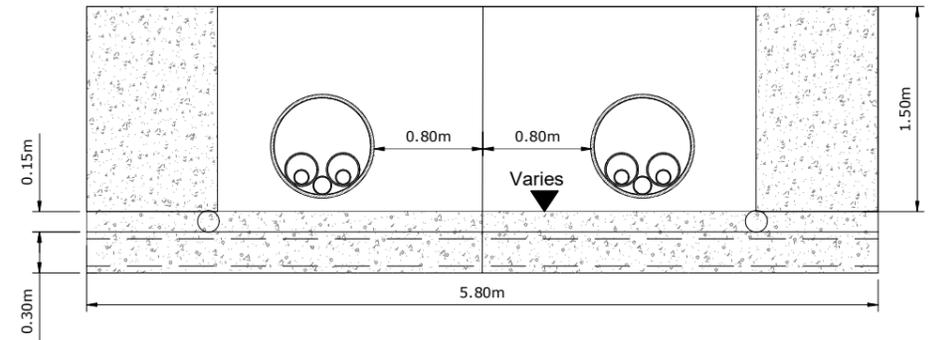
1. MULTIPLE INSTANCES ON SITE FOR NORTH POINT REFER TO DRG. NO: 11290-2010



LEACHATE HEADWALL PLAN
Scale 1:25



LEACHATE HEADWALL ACCESS GANGWAY
Scale 1:50



LEACHATE HEADWALL FRONT ELEVATION
Scale 1:25

NOTES:

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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH



LEACHATE HEADWALL SIDE ELEVATION
Scale 1:25

Client:

Bord na Móna

Project:

DREHID WASTE
MANAGEMENT FACILITY
LANDFILL EXTENSION
PLANNING APPLICATION

Title:

LEACHATE HEADWALL
DETAILS

Scale @ A1: As Shown

Prepared by: M. Nolan
Checked by: R. Hunt
Date: November 22

Project Director: S. Tinnelly

Drawing Status: Planning

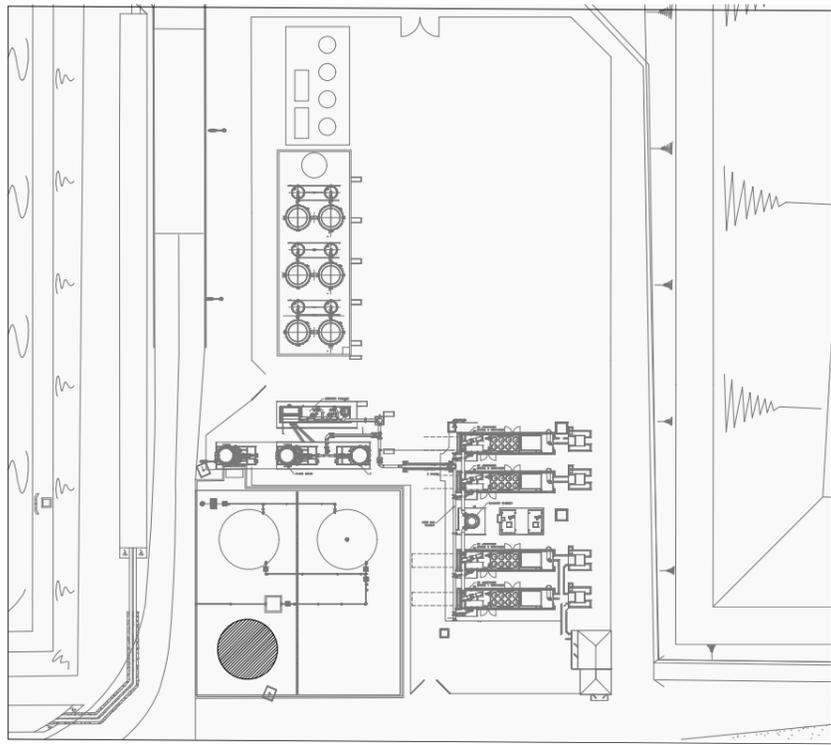
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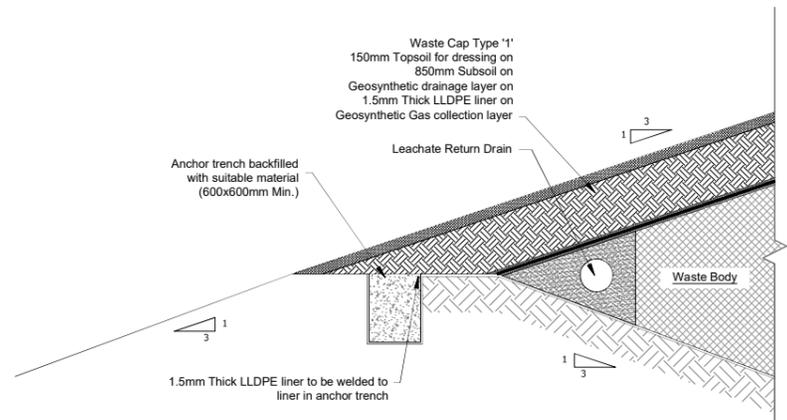
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Drawing No.: 11290-2062

Revision: A

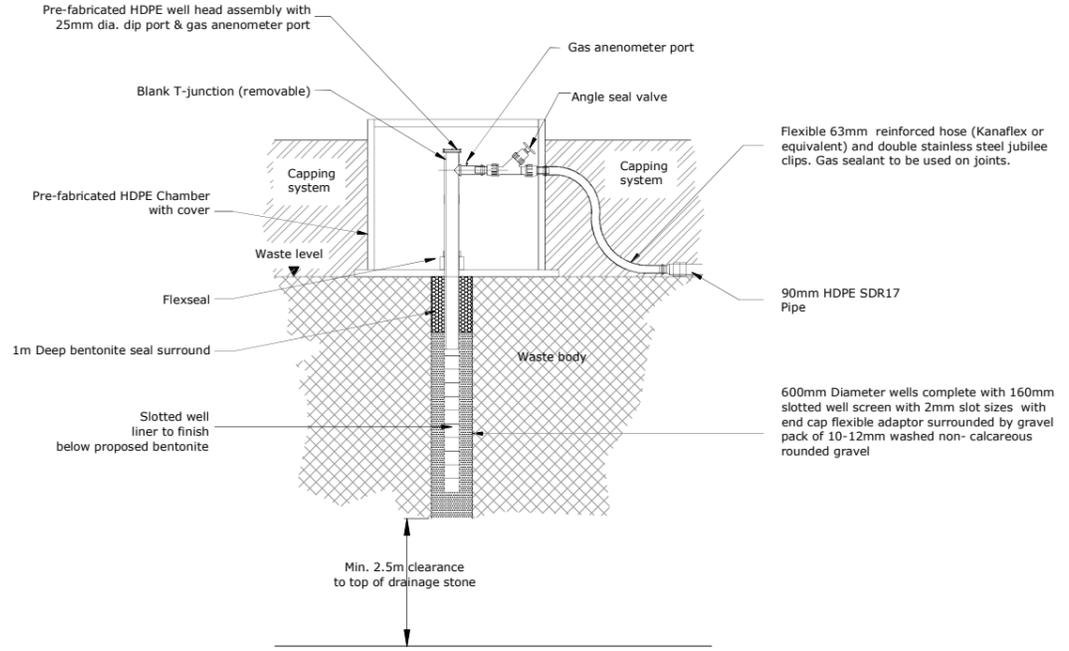


LANDFILL GAS UTILISATION COMPOUND
- Scale 1:500

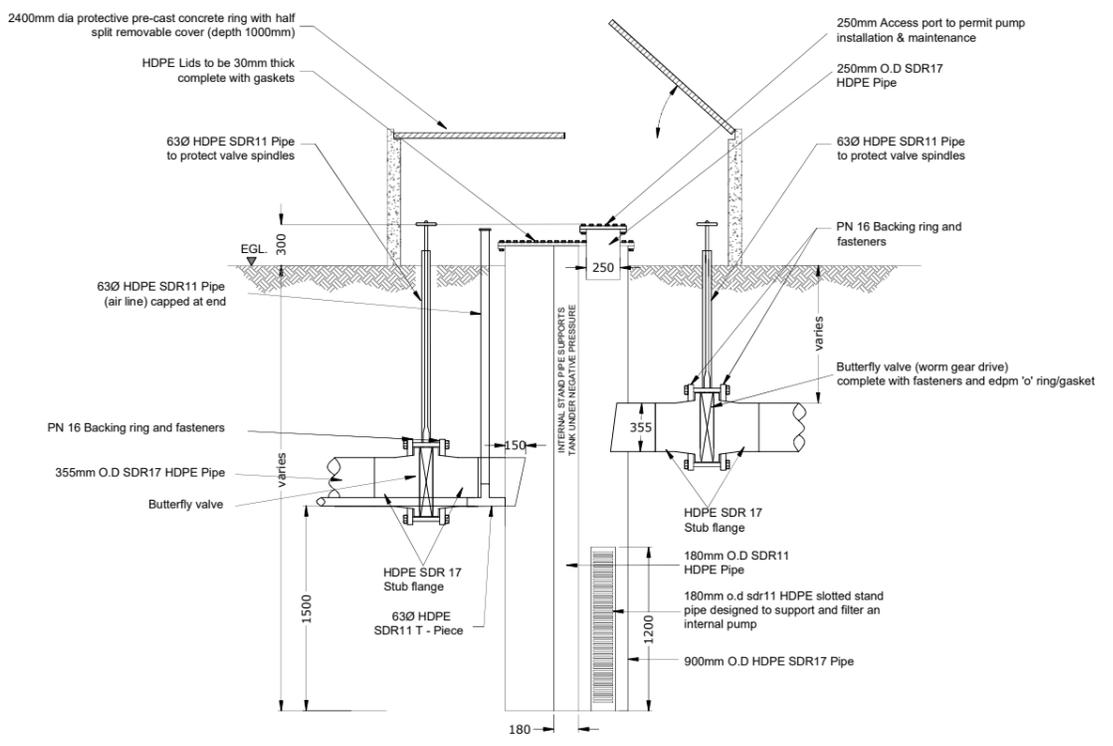


TYPICAL WASTE CAP DETAIL - Scale 1:50

- NOTES:**
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SCHEMATIC DETAIL OF TYPICAL LANDFILL GAS EXTRACTION WELL (NTS)



SCHEMATIC DETAIL OF LANDFILL GAS CONDENSATE TRAP (NTS)

Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
LANDFILL GAS MANAGEMENT & CAPPING DETAILS

Scale @ A1: **As Shown**
Prepared by: **M. Nolan** Checked: **R. Hunt** Date: **November 22**
Project Director: **S. Tinnelly**
Drawing Status: **Planning**

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Drawing No.: **11290-2063** Revision: **A**



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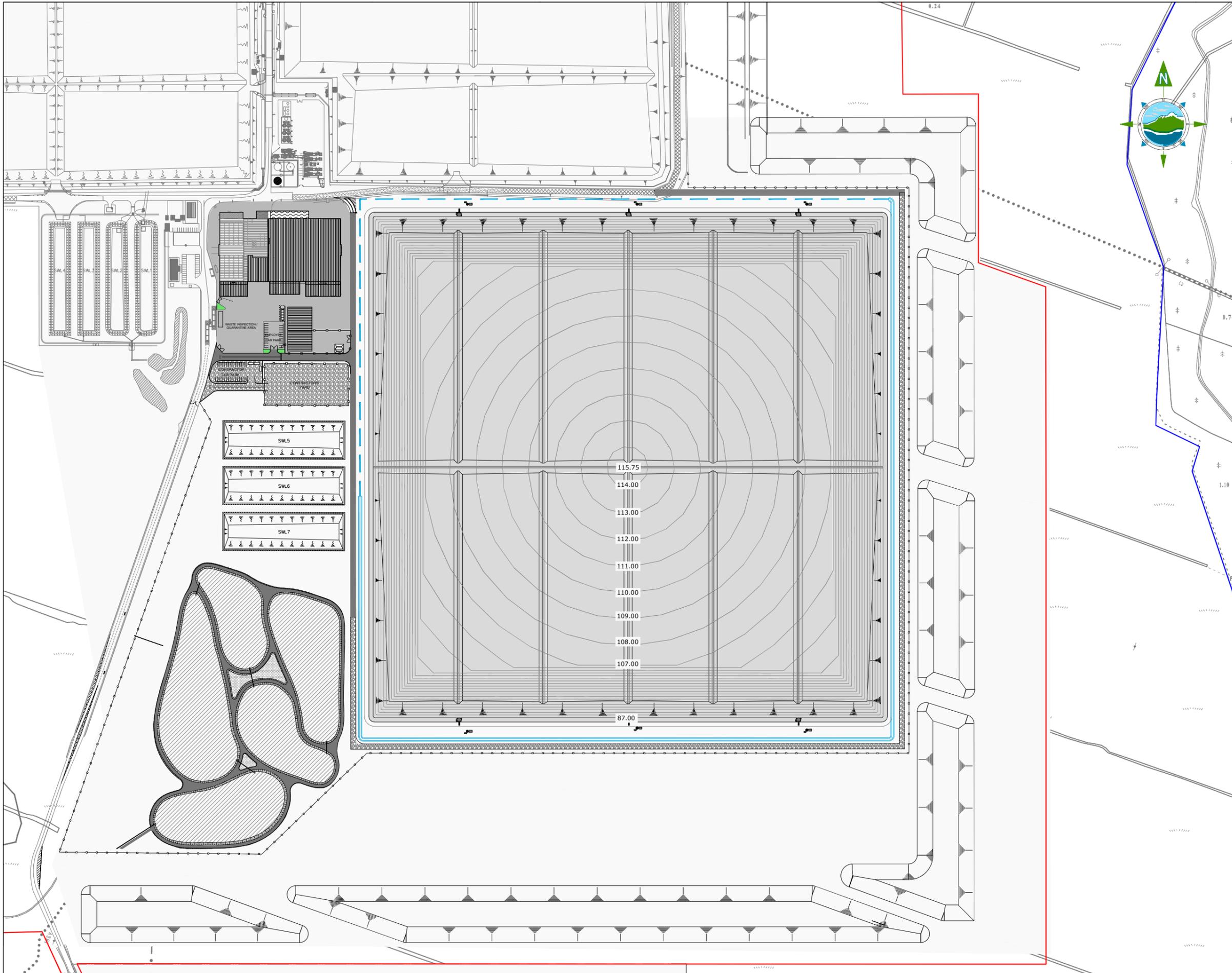
- LEGEND:**
- EXISTING SURFACE WATER SYSTEMS
 - EXISTING PIPE
 - EXISTING OVERHEAD POWER LINES
 - PROPOSED PIPEWORK
 - PROPOSED CELL
 - 1:2 CUT SLOPE
 - 3.5m PROPOSED ACCESS ROAD
 - 1:2 CUT/FILL SLOPE TO EXISTING GROUND
 - ELEVATION CONTOURS (MAJOR)
 - ELEVATION CONTOURS (MINOR)
 - PROPOSED LEVELS
 - TOPOGRAPHICAL SURVEY SHOWN IN GREY
 - PROPOSED INFRASTRUCTURE SHOWN IN DARK GREY

CELL TREATMENT AREAS:

CELL 1 = 8.57m ²
CELL 2 = 6.94m ²
CELL 3 = 5.70m ²
CELL 4 = 12.26m ²
CELL 5 = 3.95m ²
TOTAL CELL AREA = 43,045m²



B	ISSUED FOR PLANNING	JFR	18.05.2023
REV:	DESCRIPTION:	BY:	DATE:
CONSULTANT:		BLOCK B, DUNHILL ECO PARK, DUNHILL, IRELAND.	
YESI ENVIRONMENTAL <small>Integrating our water with the nature</small>		T: +353 87 215 1882 E: INFO@YESIENVIRO.COM W: WWW.YESIENVIRO.COM	
CLIENT:		BORD NA MÓNA PLC <small>Naturally Driven</small>	
SITE: DREHID WASTE MANAGEMENT FACILITY			
PROJECT: INTEGRATED CONSTRUCTED WETLAND			
DRAWING TITLE: PROPOSED SITE LAYOUT			
SCALE AT A1: 1:750	DATE: MAY 2023	DRAWN: JFR	CHECKED: PH
PROJECT NO: 11290	DRAWING NUMBER: 11290-2064	REVISION: B	



GENERAL LEGEND

BORD NA MÓNA OWNERSHIP BOUNDARY	APPLICATION BOUNDARY
EXISTING MAJOR CONTOUR	EXISTING MINOR CONTOUR
PROPOSED FINAL CAP CONTOUR	EMBANKMENT
86.00	86.25
98.00	

- NOTES:**
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 - ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD.

OSI 1:5,000 SERIES SHEET NO'S:
3187, 3188, 3253, 3254, 3318, 3319, 3381, 3382.

Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH



Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
LANDFILL CAP FINAL RESTORATION LEVELS

Scale @ A1: **1:2,000**
 Prepared by: M. Nolan Checked: R. Hunt Date: October 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

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Drawing No.: **11290-2070** Revision: **A**

Legend:

- PEATLAND TOLERANT GRASS AND SHRUB MIX
- PROPOSED SCRUB MIX
- HABITAT ENHANCEMENT AREA
- DRAIN BLOCKS
- SITE BOUNDARY
- SITE OWNERSHIP

Notes:

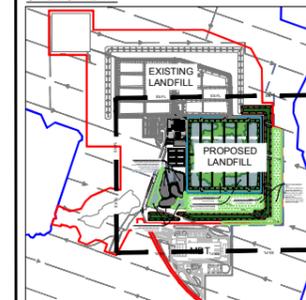
Woodland Planting Mix:
Woodland planting mix to comprise of High Canopy Dominants (<20%), Low-canopy: Sub-dominants (20-25%), Understorey and Fringe: High-Shrubs (20-40%) and Understorey and Edge: Lower-Shrubs (15-25%). Planting to be allowed to grow to reach maturity.

Species mix to be finalised in conjunction with the project ecologist. All species to be from certified native stock and preferably from an approved supplier of the Green, Low-Carbon, Agri Environment Scheme (GLAS).

WOODLAND MIX SPECIES:

Botanical name	Common name	Size	%
<i>High Canopy (dominants)</i>			
<i>Quercus robur</i>	Pedunculate Oak	Medium Tree 20-30cm	<20%
<i>Pinus sylvestris</i>	Scots Pine	Medium Tree 20-30cm	
<i>Low Canopy (Sub-dominants)</i>			
<i>Alnus glutinosa</i>	Alder	Fastest Tree 20-30cm	20-25%
<i>Betula pubescens</i>	Downy Birch	Fastest Tree 20-30cm	
<i>Salix cinerea</i>	Grey Willow	1+1m, 8m-12cm, bare root	
<i>Understorey and Fringe (High Shrub)</i>			
<i>Sorbus aucuparia</i>	Rowan	1+1m 90-120cm	20-40%
<i>Ilex aquifolium</i>	Holly	1+1m 90-120cm	
<i>Understorey and Edge (Lower Shrub and Ground)</i>			
<i>Lonicera periclymenum</i>	Common honeysuckle	1+1m 40-60cm	15-25%
<i>Vaccinium myrtillus</i>	Bilberry	1+1m 40-60cm	
<i>Calluna vulgaris</i>	Ling	1+1m 40-60cm	
<i>Erica Tetralix</i>	Heath	1+1m 40-60cm	
<i>Myrica Gale</i>	Bay Myrtle	1+1m 40-60cm	
<i>Corylus Avellana</i>	Hazel	1+1m 40-60cm	
<i>Viburnum Opulus</i>	Guelder Rose	1+1m 40-60cm	

SITE CONTEXT:



HABITAT ENHANCEMENT AREA
Area will be left undisturbed to allow natural colonisation. In addition, plant species will be planted to create new habitats such as fens, reed swamps, heath embryonic Sphagnum-rich vegetation and wet and birch woodland communities, where conditions are suitable.

PROPOSED INFILL
Infill to be topsoiled and seeded with a grass and scrub mix.

PROPOSED SCRUB MIX
Infill to be topsoiled and seeded Pockets of scrub mix. Species mix to be finalised in conjunction with project ecologist.

BERM
Peat tolerant grass and shrub mix will be planted on the berms.

INTEGRATED CONSTRUCTED WETLAND
Native wetland emergent species such as greater pond sedge, reed sweet-grass, bulrush, common clubrush and yellow flag iris will be planted within the wetlands. Refer to Vesi drawing for detail.

INTEGRATED CONSTRUCTED WETLAND
Native trees and shrubs such as alder, buckthorn, willow, alder and birch will be planted around the ICW.

Prepared by:
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HIBERNIA HOUSE,
CHERRYWOOD BUSINESS PARK,
LOUGHLINSTOWN, DUBLIN 18
00353 (01) 2303585
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Site location:
CARBURY,
COUNTY KILDARE

Drawing Title:
LANDSCAPE PLAN

Project:
**DREHID WASTE MANAGEMENT FACILITY
LANDFILL EXTENSION**

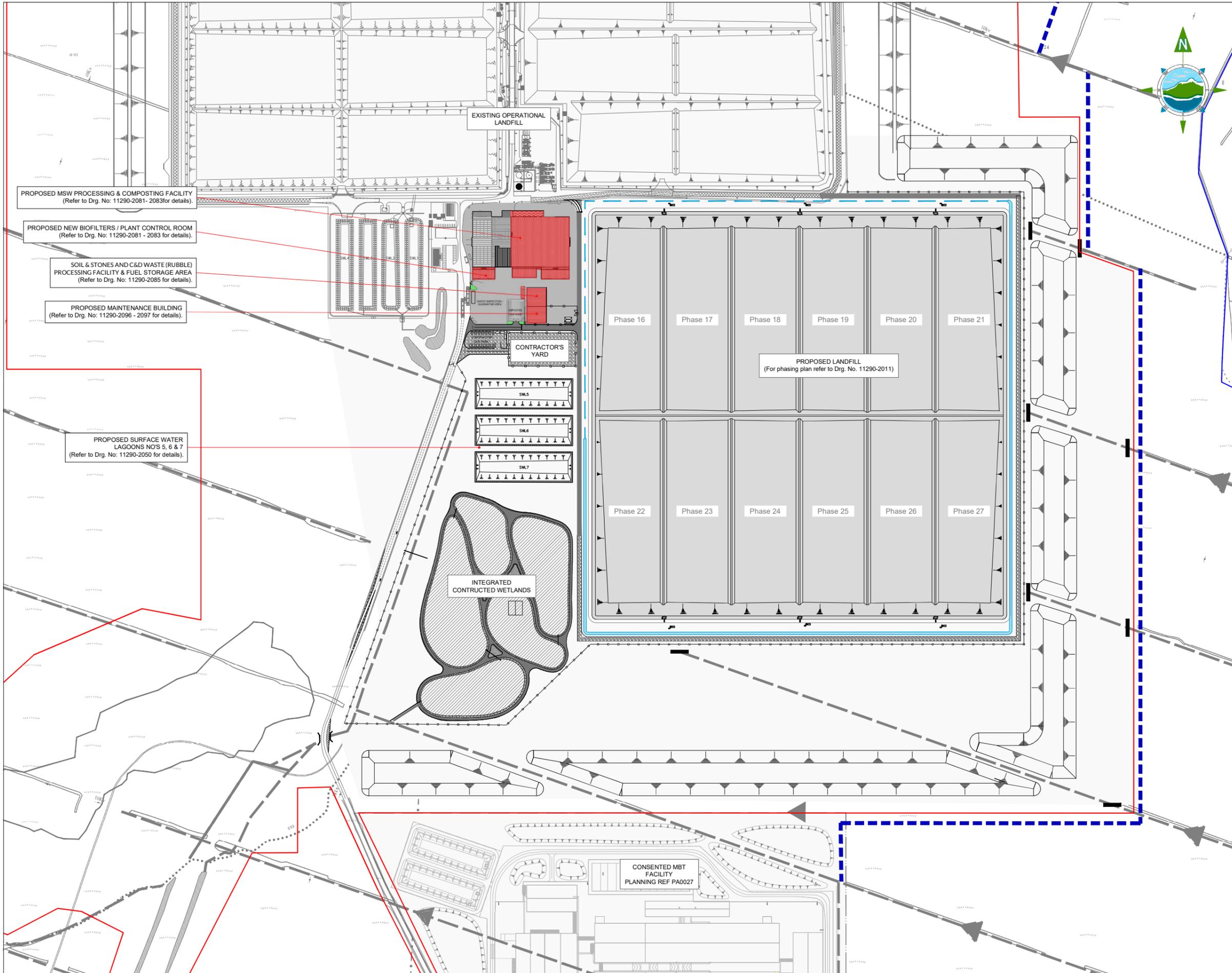
Drawn by:
JD

Checked by:
RC

Drawing Ref: **11290-2071**

Scale: 1:2000 @ A1

Date: MAY 2023



GENERAL LEGEND
 BORD NA MÓNA OWNERSHIP BOUNDARY
 APPLICATION BOUNDARY

PROPOSED BUILDINGS

- NOTES:**
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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

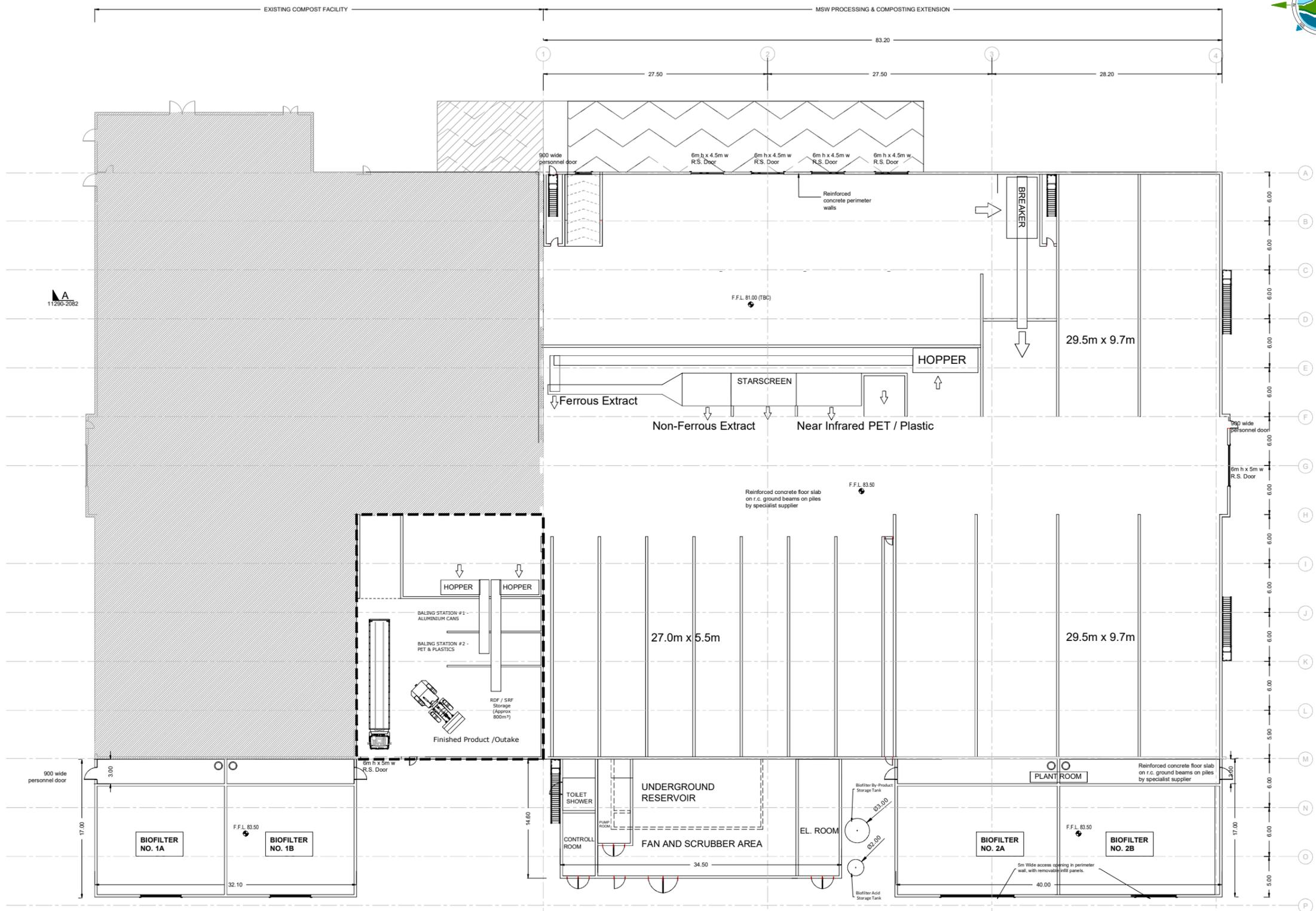
Project:
 DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
 STRUCTURES GENERAL ARRANGEMENT

Scale @ A1: 1:2,500
 Prepared by: M. Nolan
 Checked: R. Hunt
 Date: November 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

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Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:

Bord na Móna

Project:

DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:

MSW PROCESSING & COMPOSTING BUILDING, NEW BIOFILTERS & PLANT CONTROL ROOMS PLAN

Scale @ A1: 1:250

Scale as agreed with An Bord
Planning ref: AB-322446-22
Date: 09/03/23

Prepared by: M. Nolan
Checked: R. Hunt
Date: November 22

Project Director: S. Tinnelly

Drawing Status: Planning

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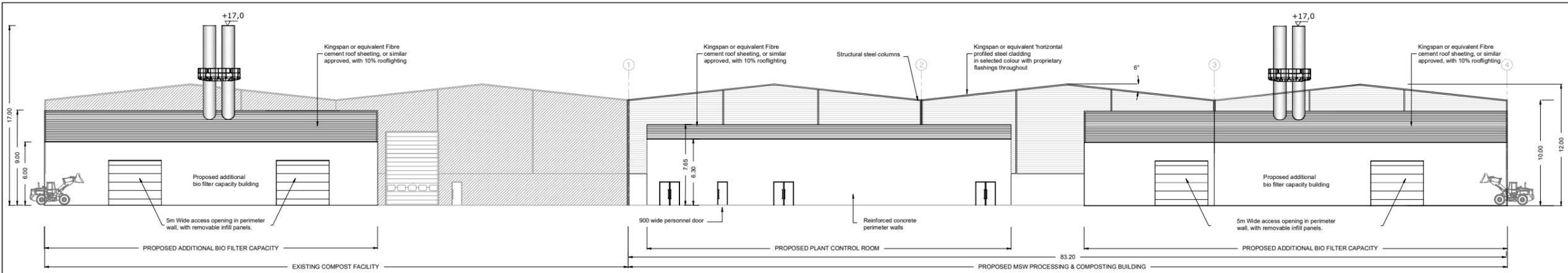
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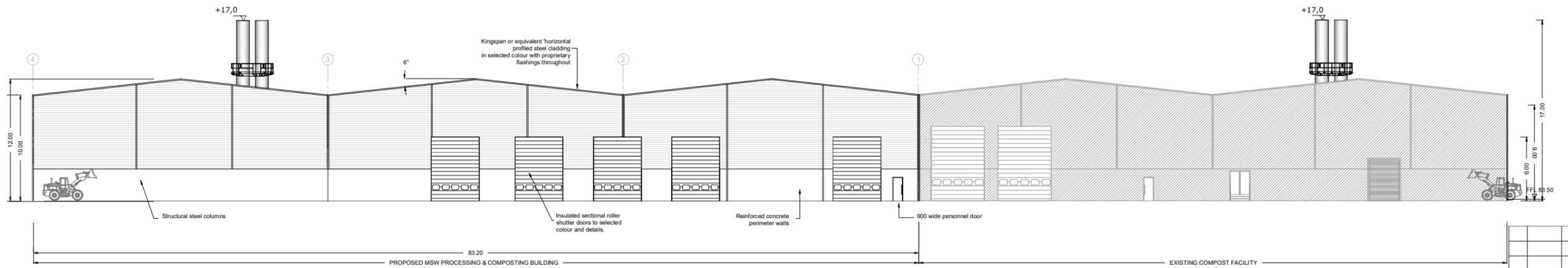
Drawing No.: 11290-2081

Revision: A

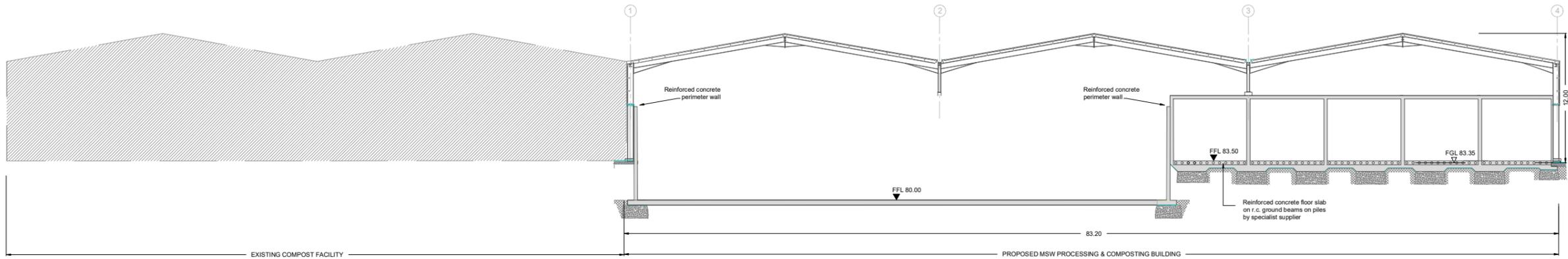
**MSW PROCESSING & COMPOSTING BUILDING,
BIOFILTERS & PLANT CONTROL ROOM
PLAN**



**MSW PROCESSING & COMPOSTING BUILDING, BIOFILTERS & PLANT CONTROL ROOM
SOUTH ELEVATION**



**MSW PROCESSING & COMPOSTING BUILDING, BIOFILTERS & PLANT CONTROL ROOM
NORTH ELEVATION**



**MSW PROCESSING & COMPOSTING BUILDING, BIOFILTERS & PLANT CONTROL ROOM
SECTION A-A**

Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
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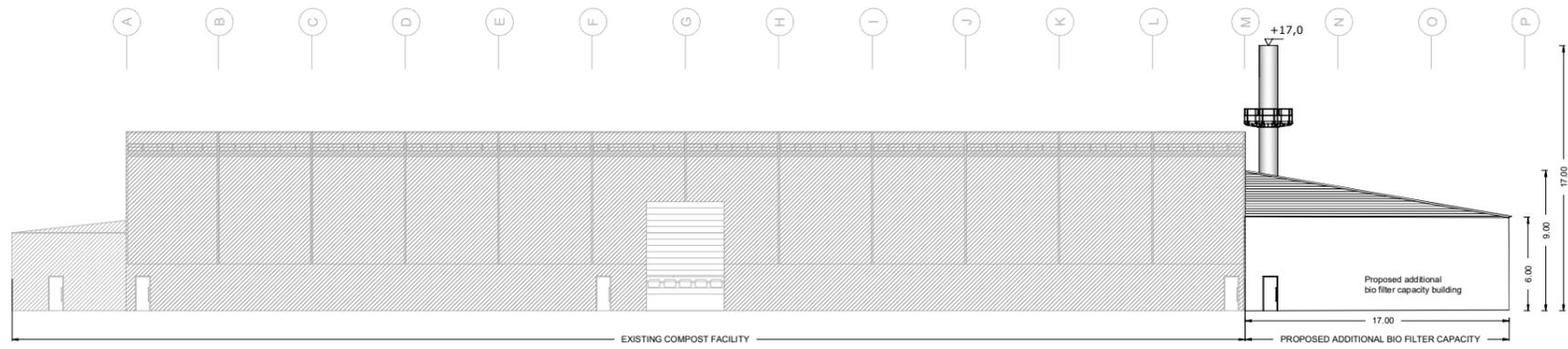
Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
MSW PROCESSING & COMPOSTING BUILDING, BIOFILTERS & PLANT CONTROL ROOM ELEVATIONS & SECTION

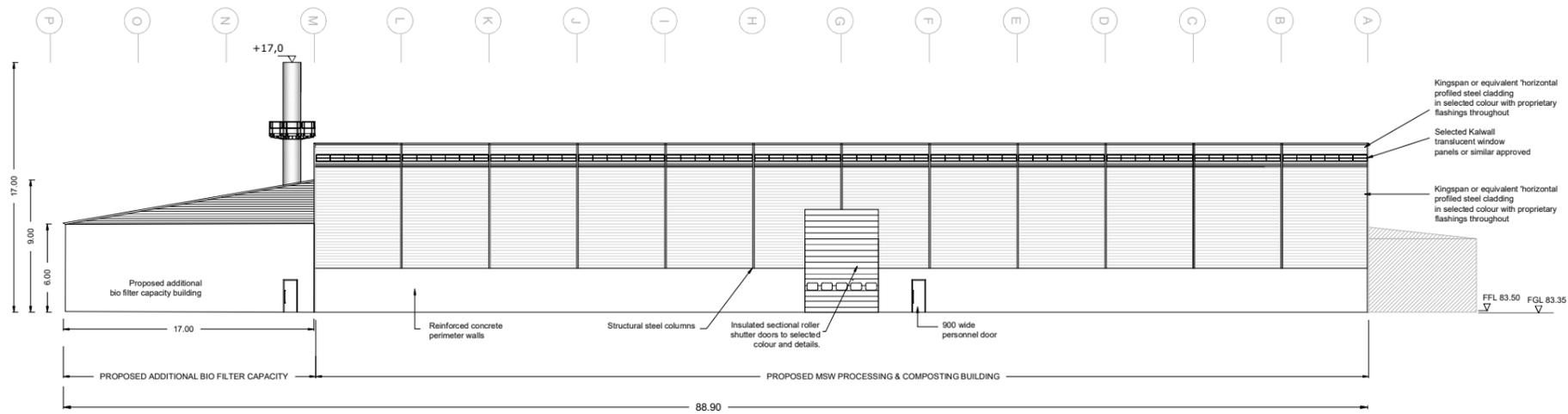
Scale @ A1: **1:200**
 Prepared by: **M. Nolan** Checked: **R. Hunt** Date: **November 22**
 Project Director: **S. Tinnelly**
 Drawing Status: **Planning**

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Drawing No.: **11290-2082** Revision: **A**



MSW PROCESSING & COMPOSTING BUILDING, BIOFILTERS & PLANT CONTROL ROOM
WEST ELEVATION



MSW PROCESSING & COMPOSTING BUILDING, BIOFILTERS & PLANT CONTROL ROOM
EAST ELEVATION

Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

Project:
 DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

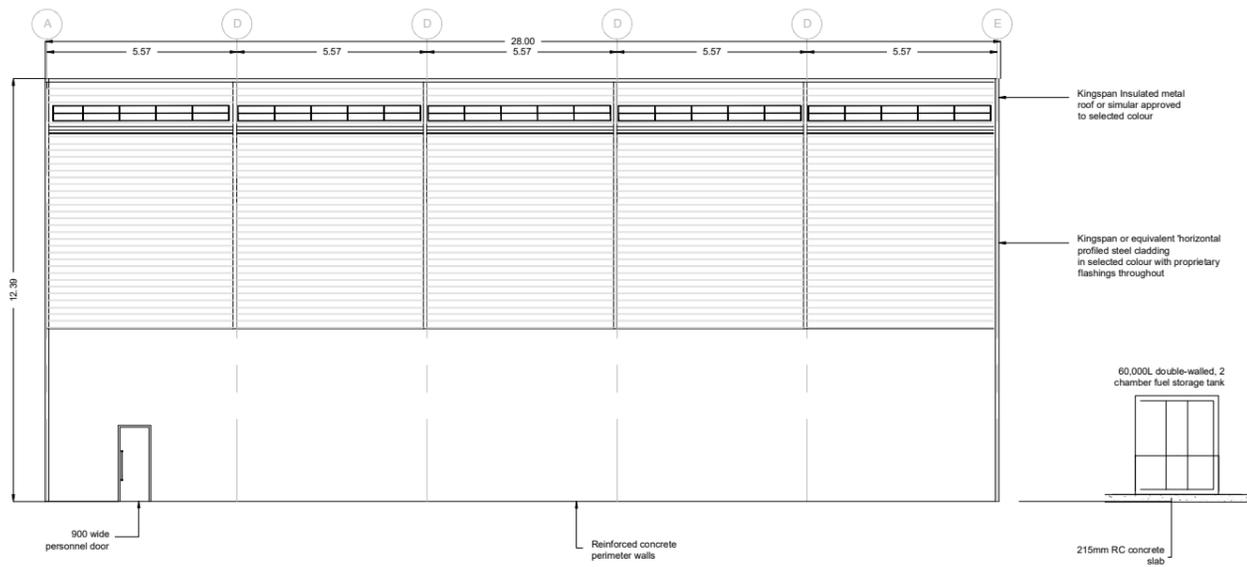
Title:
 MSW PROCESSING & COMPOSTING BUILDING, BIOFILTERS & PLANT CONTROL ROOM ELEVATIONS

Scale @ A1: 1:200
 Prepared by: M. Nolan
 Checked: R. Hunt
 Date: November 22
 Project Director: S. Tinnelly
 Drawing Status: Planning

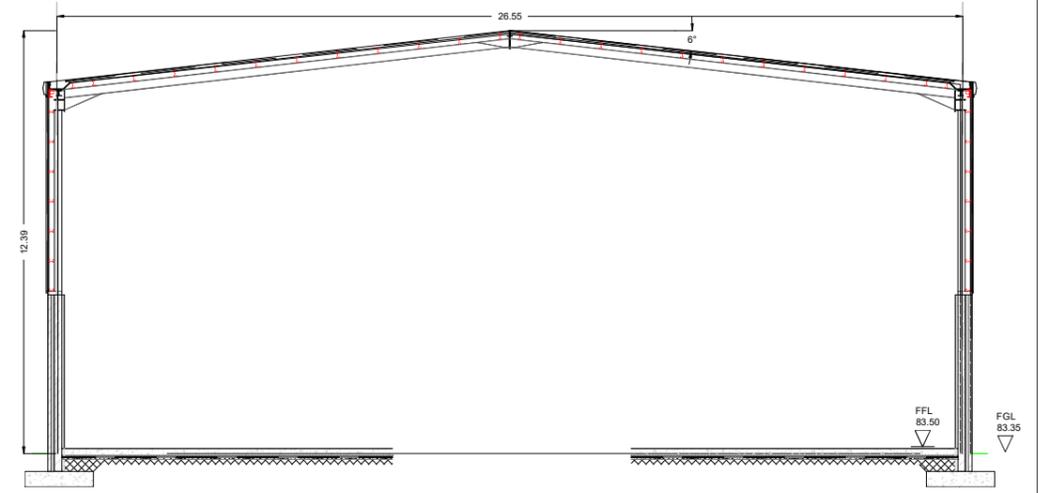
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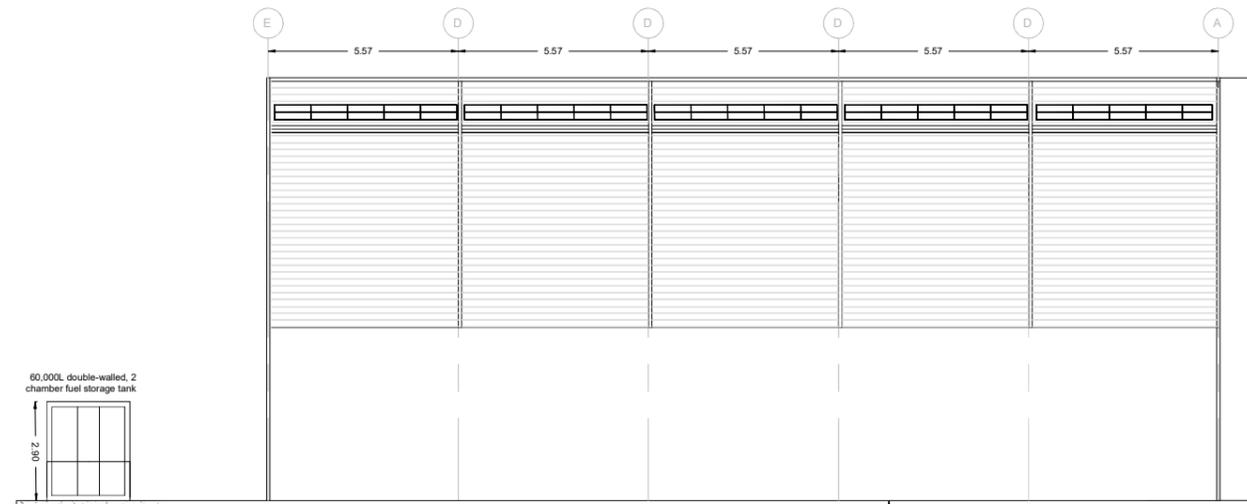
Drawing No.: 11290-2083
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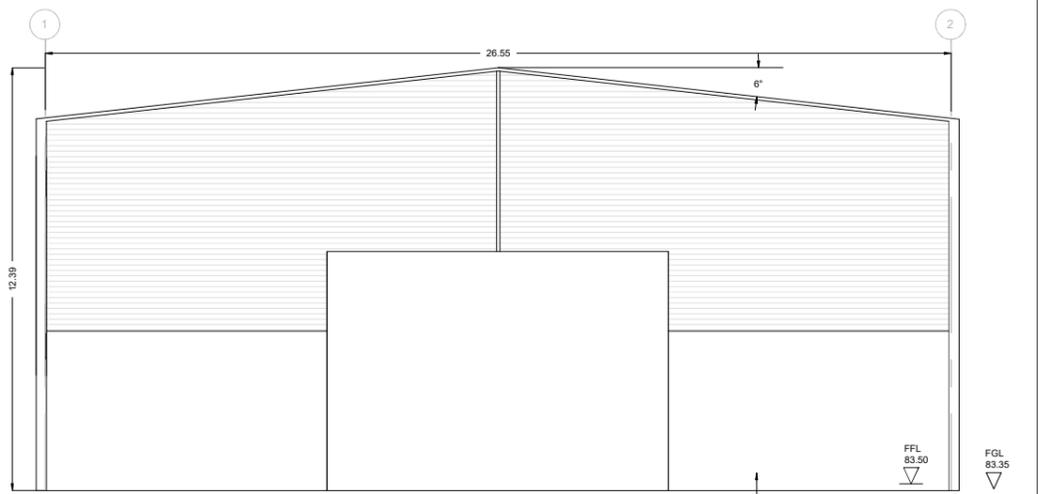
**SOIL, STONES AND C&D RUBBLE PROCESSING BUILDING
NORTH ELEVATION - Scale 1:100**



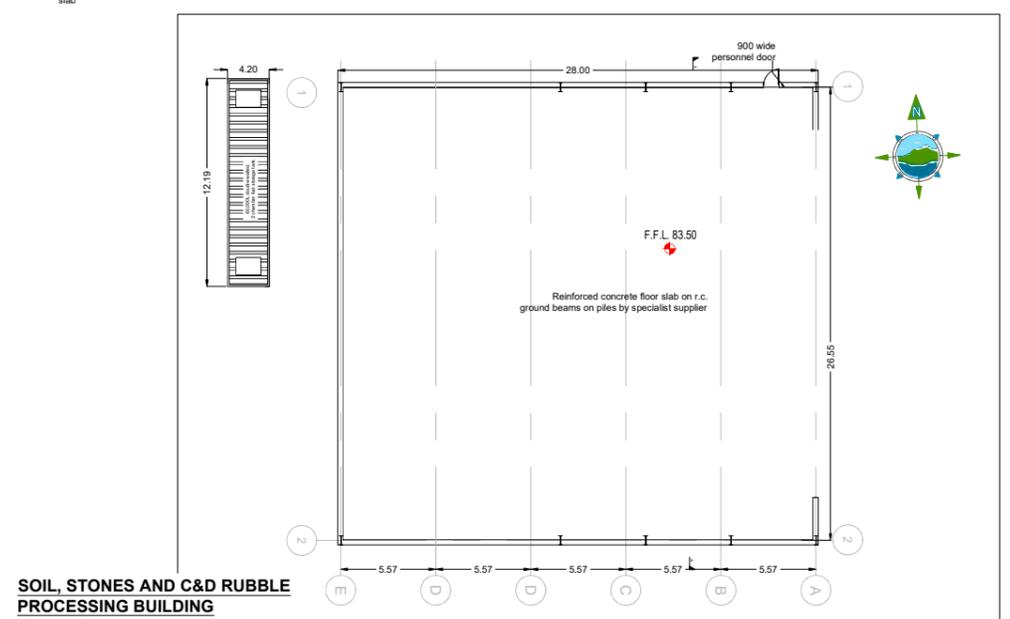
**SOIL, STONES AND C&D RUBBLE PROCESSING BUILDING
SECTION A-A - Scale 1:100**



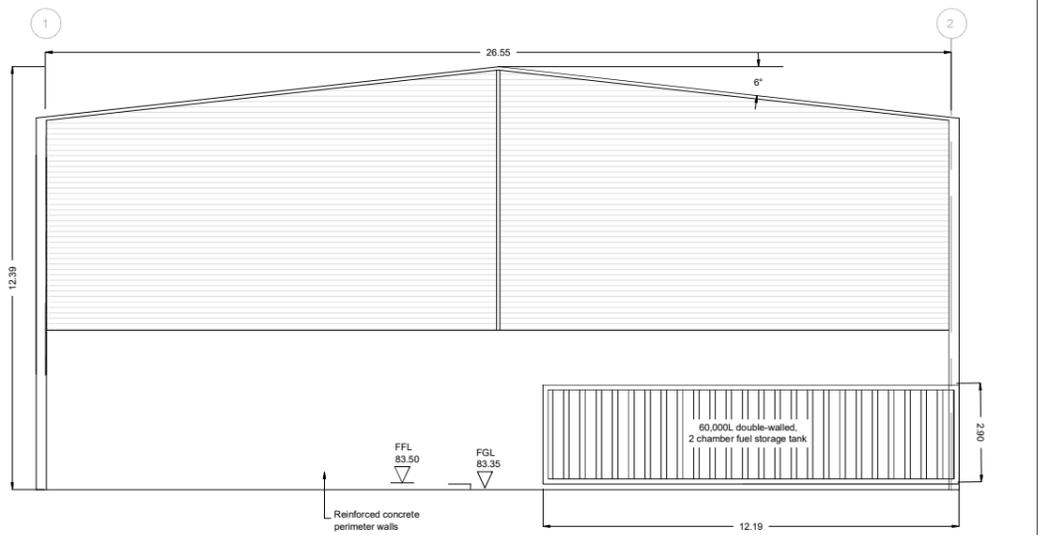
**SOIL, STONES AND C&D RUBBLE PROCESSING BUILDING
SOUTH ELEVATION - Scale 1:100**



**SOIL, STONES AND C&D RUBBLE PROCESSING BUILDING
EAST ELEVATION - Scale 1:100**



**SOIL, STONES AND C&D RUBBLE PROCESSING BUILDING
PLAN - Scale 1:200**



**SOIL, STONES AND C&D RUBBLE PROCESSING BUILDING
WEST ELEVATION - Scale 1:200**

Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:
Bord na Móna

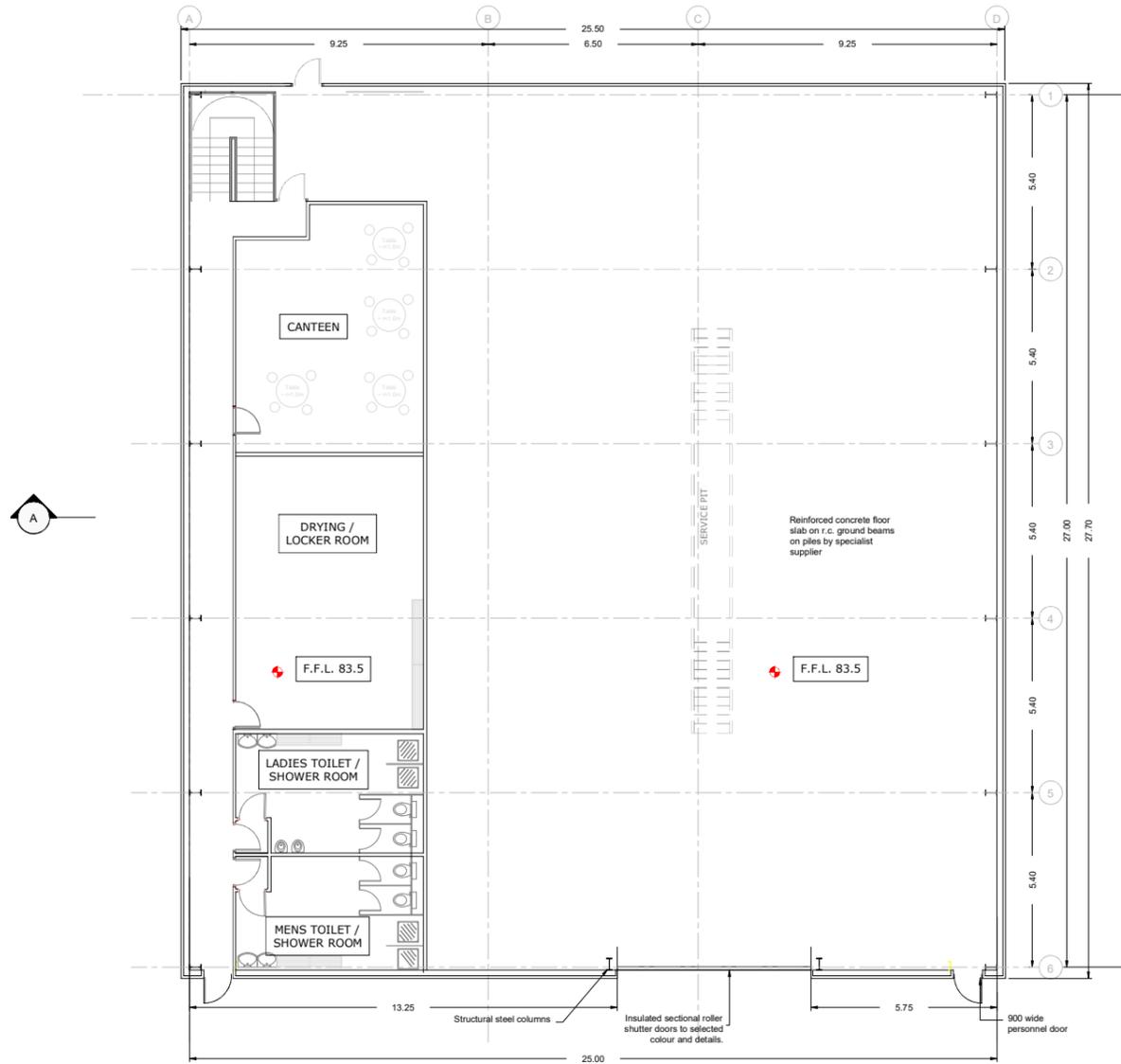
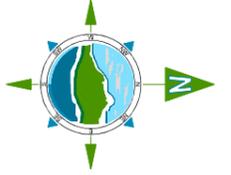
Project:
DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:
SOIL, STONES AND C&D WASTE RUBBLE PROCESSING BUILDING & FUEL STORAGE AREA PLAN, ELEVATIONS & SECTION

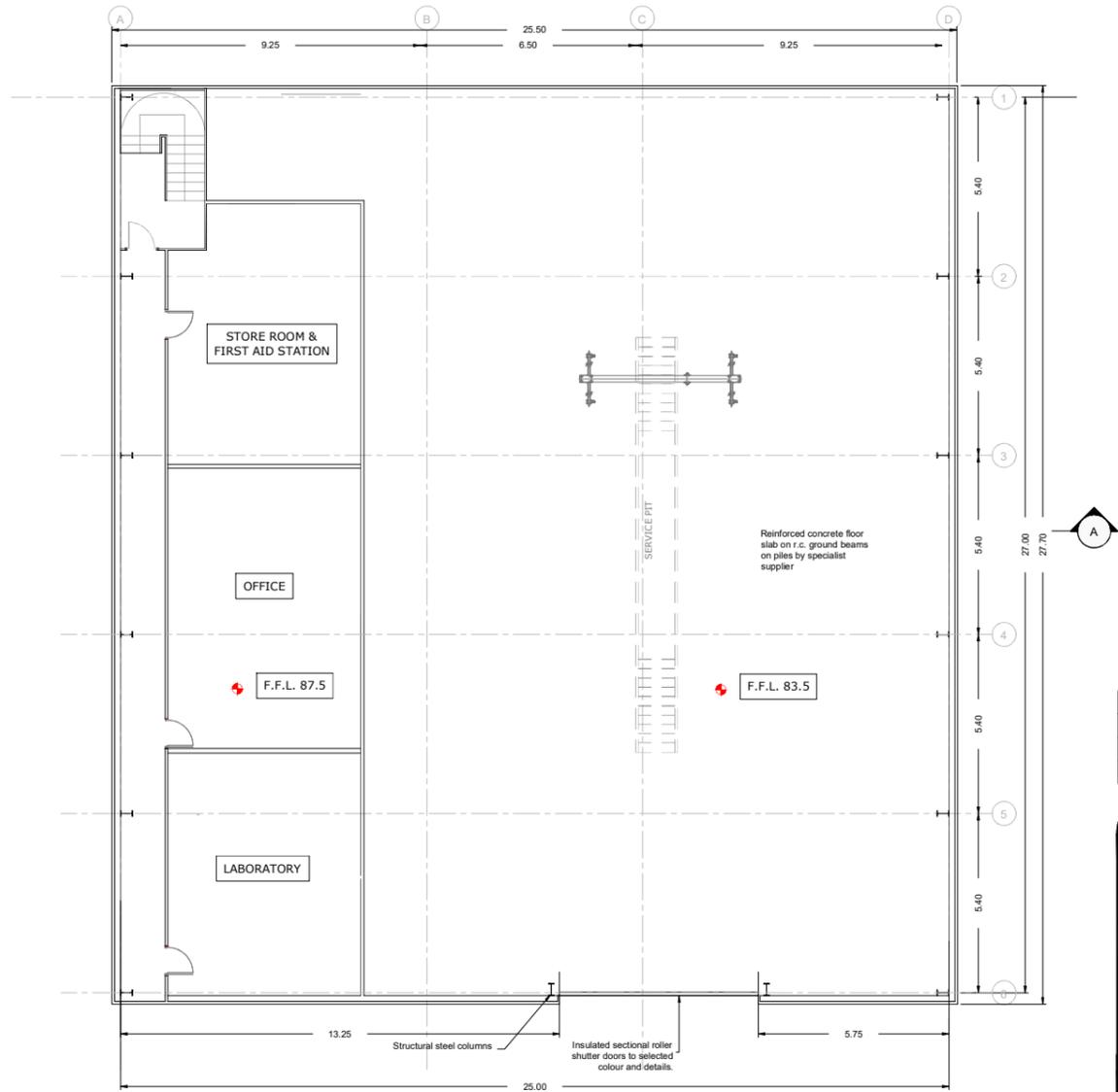
Scale @ A1: As Shown
Prepared by: M. Nolan
Checked: R. Hunt
Date: November 22
Project Director: S. Tinnelly
Drawing Status: Planning

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Drawing No.: 11290-2085
Revision: A



MAINTENANCE BUILDING GROUND FLOOR PLAN



MAINTENANCE BUILDING FIRST FLOOR PLAN



Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH

Client:

Bord na Móna

Project:

DREHID WASTE MANAGEMENT FACILITY FURTHER DEVELOPMENT

Title:

MAINTENANCE BUILDING FLOOR PLANS

Scale @ A1: 1:100

Prepared by: M. Nolan
Checked: R. Hunt
Date: November 22

Project Director: S. Tinnelly

Drawing Status: Planning

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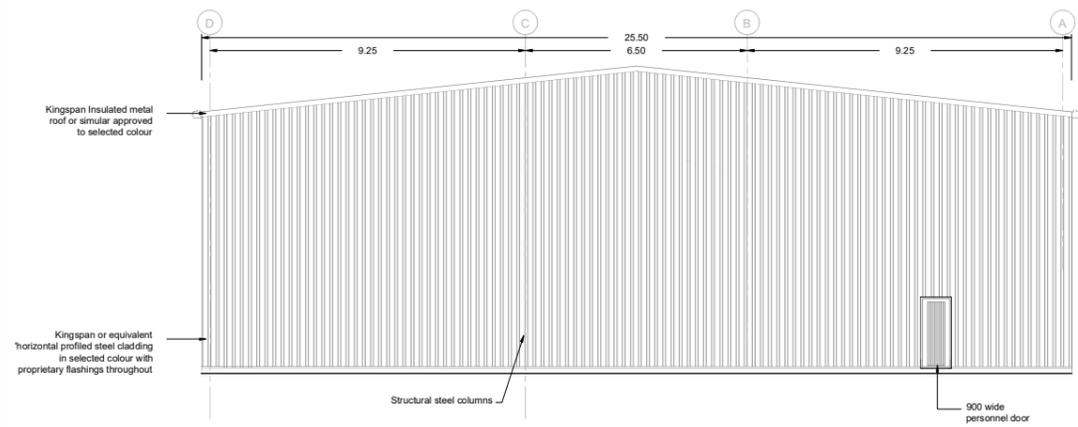
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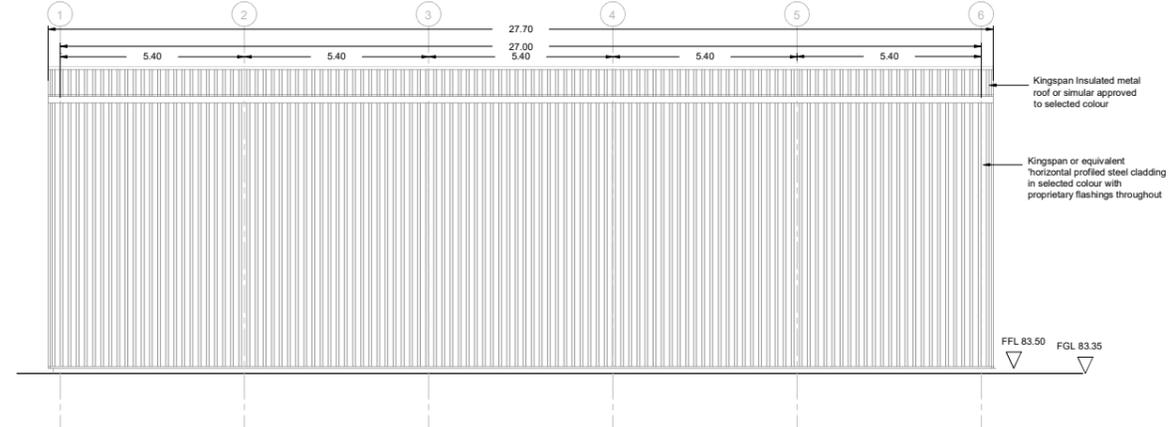
Revision: A

NOTES:

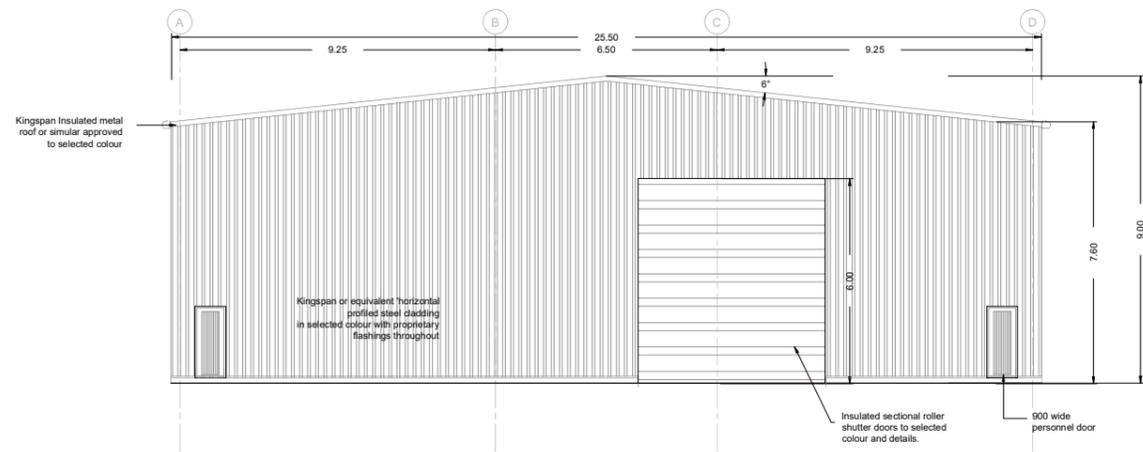
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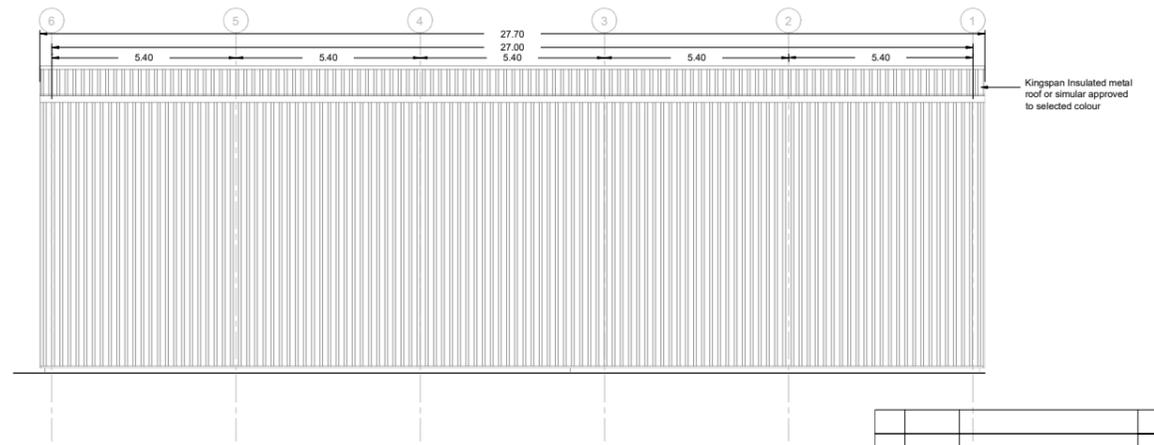
**MAINTENANCE BUILDING
WEST ELEVATION**



**MAINTENANCE BUILDING
SOUTH ELEVATION**

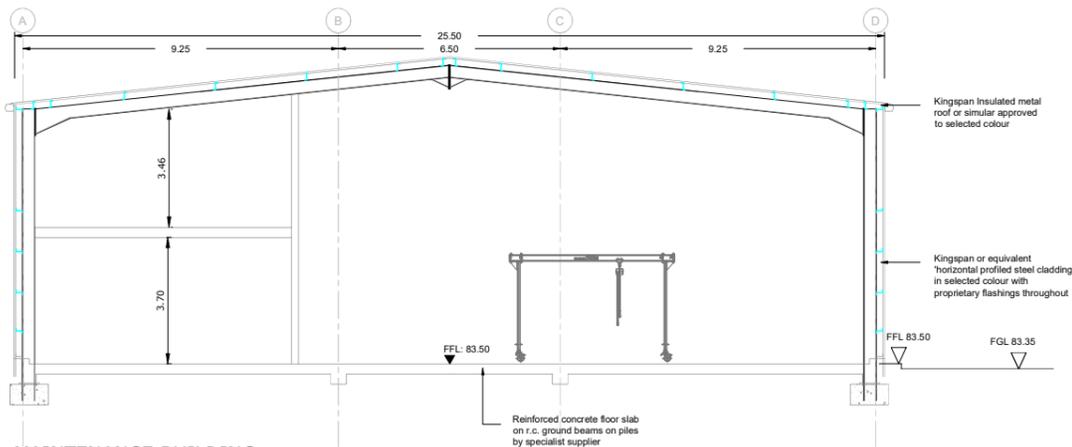


**MAINTENANCE BUILDING
EAST ELEVATION**



**MAINTENANCE BUILDING
NORTH ELEVATION**

Rev	Date	Description	By	Chkd.
A	26.04.23	PLANNING ISSUE	MN	RH



**MAINTENANCE BUILDING
SECTION A-A**



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Client:
Bord na Móna

Project:
**DREHID WASTE
MANAGEMENT FACILITY
FURTHER DEVELOPMENT**

Title:
**MAINTENANCE BUILDING
SECTION & ELEVATIONS**

Scale @ A1: **1:100**
Prepared by: **M. Nolan** Checked: **R. Hunt** Date: **November 22**
Project Director: **S. Tinnelly**
Drawing Status: **Planning**

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Drawing No.: **11290-2097**

Revision: **A**