







KNOCKHARLEY LANDFILL LTD.

ENVIRONMENTAL IMPACT ASSESSMENT REPORT (EIAR) FOR THE PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

VOLUME 4 - DRAWINGS

NOVEMBER 2018

Knockharley Landfill Ltd.
Kentstown, Navan,Co.Meath

FEHILY TIMONEY & COMPANY

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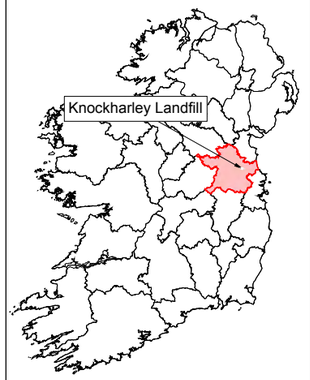
Sheet FTC-A1-2015 rev. A (template filed in O:Acad\Templates\Autocad) (Dec 2015) - template externally referenced

Drawing List

Drawing Number	Drawing Title	Scale	Size	Drawing Pack
LW14-821-01-P-0000-LIST	DRAWING LIST	n/a	n/a	Planning
LW14-821-01-P-0000-BDY	OWNERSHIP BOUNDARY LAYOUT	1:7,500	A3	Planning
LW14-821-01-P-0000-000	1:50,000 SITE LOCATION MAP	1:50,000	A3	Planning
LW14-821-01-P-0000-001	1:10,000 SITE LOCATION MAP	1:10,000	A3	Planning
LW14-821-01-P-0000-002	EXISTING SITE LAYOUT	1:3,750	A1	Planning
LW14-821-01-P-0000-003	PROPOSED SITE LAYOUT PLAN	1:3,750	A1	Planning
LW14-821-01-P-0000-004	PROPOSED SITE LAYOUT PLAN SHEET 1 OF 8	1:1,000	A1	Planning
LW14-821-01-P-0000-005	PROPOSED SITE LAYOUT PLAN SHEET 2 OF 8	1:1,000	A1	Planning
LW14-821-01-P-0000-006	PROPOSED SITE LAYOUT PLAN SHEET 3 OF 8	1:1,000	A1	Planning
LW14-821-01-P-0000-007	PROPOSED SITE LAYOUT PLAN SHEET 4 OF 8	1:1,000	A1	Planning
LW14-821-01-P-0000-008	PROPOSED SITE LAYOUT PLAN SHEET 5 OF 8	1:1,000	A1	Planning
LW14-821-01-P-0000-009	PROPOSED SITE LAYOUT PLAN SHEET 6 OF 8	1:1,000	A1	Planning
LW14-821-01-P-0000-010	PROPOSED SITE LAYOUT PLAN SHEET 7 OF 8	1:1,000	A1	Planning
LW14-821-01-P-0000-011	PROPOSED SITE LAYOUT PLAN SHEET 8 OF 8	1:1,000	A1	Planning
LW14-821-01-P-0000-012	ASSESSMENT OF ALTERNATIVES	1:3,750	A1	EIAR
LW14-821-01-P-0000-013	PLAN SHOWING PROPOSED INFRASTRUCTURE WORK	1:1,000	A1	Planning
LW14-821-01-P-0050-001	EXISTING MONITORING LOCATIONS	1:3,750	A1	EIAR
LW14-821-01-P-0050-002	PROPOSED ENVIRONMENTAL MONITORING LOCATIONS	1:3,750	A1	EIAR
LW14-821-01-P-0050-003	EXISTING FORESTATION PROPOSED FELLING & NEW PLANTING	1:3,750	A1	EIAR
LW14-821-01-P-0050-004	EXISTING SITE LAYOUT WITH INFRASTRUCTURE LOCATIONS	1:3,750	A1	EIAR
LW14-821-01-P-0050-005	PROPOSED SITE LAYOUT PLAN WITH INFRASTRUCTURE LOCATIONS	1:3,750	A1	EIAR
LW14-821-01-P-0050-006	PROPOSED IBA FACILITY BUILDING LOCATION AND CROSS SECTION	1:500	A1	Planning
LW14-821-01-P-0050-007	TRAFFIC MANAGEMENT IBA FACILITY	1:1000	A1	EIAR
LW14-821-01-P-0050-008	TRAFFIC MANAGEMENT BIOLOGICAL TREATMENT FACILITY	1:500	A1	EIAR
LW14-821-01-P-0050-009	TRAFFIC MANAGEMENT LEACHATE MANAGEMENT FACILITY	1:500	A1	EIAR
LW14-821-01-P-0050-010	PROPOSED CELL FILLING	1:2,500	A1	Planning & EIAR
LW14-821-01-P-0050-011	CUT/FILL PHASING PLAN	1:7,500	A1	Planning & EIAR
LW14-821-01-P-0050-012	LANDSCAPE PLAN	1:5,000	A1	Planning & EIAR
LW14-821-01-P-0103-001	PROPOSED SITE CROSS SECTIONS	1:1000	A1	Planning
LW14-821-01-P-0103-002	PROPOSED SITE CROSS SECTIONS	1:1000	A1	Planning
LW14-821-01-P-0103-003	PROPOSED SITE CROSS SECTIONS	1:200	A1	Planning
LW14-821-01-P-0103-004	PROPOSED CROSS SECTIONS of POND And LEACHATE LAGOONS	1:200	A1	Planning
LW14-821-01-P-0500-001	PROPOSED MANAGEMENT PLAN OF SURFACE WATER MANAGEMENT INFRASTRUCTURE	1:1000	A1	Planning
LW14-821-01-P-0500-002	SURFACE WATER MANAGEMENT INFRASTRUCTURE LAYOUT PLANS	1:200	A1	Planning & EIAR
LW14-821-01-P-0500-003	PROPOSED SURFACE WATER INFRASTRUCTURE CROSS SECTIONS	1:1000	A1	Planning
LW14-821-01-P-0500-004	LAMP STANDARD, GAS EXTRACTION AND SWALE INLET DETAILS	Vary	A1	Planning
LW14-821-01-P-0500-005	DETAILS OF SILT FENCE	1:20	A1	Planning
LW14-821-01-P-0500-006	SITE LAYOUT WITH EXISTING STREAM STRUCTURES	1:5000	A1	Planning
LW14-821-01-P-0600-001	PROPOSED LEACHATE MANAGEMENT FACILITY	1:500	A1	Planning
LW14-821-01-P-0600-002	TANK FARM And LEACHATE TREATMENT EQUIPMENT ELEVATIONS	1:200	A1	Planning
LW14-821-01-P-0600-003	TANK FARM And LEACHATE TREATMENT EQUIPMENT PLAN	1:200	A1	Planning
LW14-821-01-P-0600-004	CROSS SECTIONS THROUGH FLOATING COVER LAGOONS	1:500	A1	Planning
LW14-821-01-P-0600-005	PROPOSED WHEEL WASH DETAILS	1:50	A1	Planning
LW14-821-01-P-1700-000	OVERVIEW OF BIOLOGICAL TREATMENT FACILITY AND IBA FACILITY BUILDING	n/a	A1	Planning
LW14-821-01-P-1700-001	SITE LAYOUT PLAN OF PROPOSED BIOLOGICAL TREATMENT FACILITY	1:500	A1	Planning
LW14-821-01-P-1700-002	PROPOSED BIOLOGICAL TREATMENT FACILITY GROUND FLOOR PLAN	1:200	A1	Planning
LW14-821-01-P-1700-003	PROPOSED BIOLOGICAL TREATMENT FACILITY FIRST FLOOR PLAN	1:200	A1	Planning
LW14-821-01-P-1700-004	PROPOSED BIOLOGICAL TREATMENT FACILITY ROOF PLAN	1:200	A1	Planning
LW14-821-01-P-1700-005	PROPOSED BIOLOGICAL TREATMENT FACILITY CROSS SECTIONS	1:200	A1	Planning
LW14-821-01-P-1700-006	PROPOSED BIOLOGICAL TREATMENT FACILITY ELEVATIONS	1:200	A1	Planning
LW14-821-01-P-1700-007	DETAILS OF FULL RETENTION OIL INTERCEPTOR	1:25	A1	Planning
LW14-821-01-P-1700-008	PROPOSED BIOLOGICAL TREATMENT FACILITY LEACHATE & SEPTIC TANK DETAILS	1:50	A1	Planning
LW14-821-01-P-1700-010	ESB MV SUBSTATION DETAILS	1:50	A1	Planning
LW14-821-01-P-1700-021	PROPOSED IBA FACILITY BUILDING FLOOR PLAN	1:200	A1	Planning
LW14-821-01-P-1700-022	PROPOSED IBA FACILITY BUILDING ROOF PLAN	1:200	A1	Planning
LW14-821-01-P-1700-023	PROPOSED IBA FACILITY BUILDING SECTION AND ELEVATIONS	1:200	A1	Planning

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Rev.	Drawn	Chk'd	Appd		
A	SK	CJC	BG	Cork 10.07.18	Issue For Planning Application

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

DRAWING LIST

Scales Used	This Drawing was printed to A3.
1:50000	

Dwg. No.	Rev.
LW14-821-01-P-0000-LIST	A

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0m 250m 500m 750m 1000m 1250m 1500m 1750m 2000m 2250m 2500m
Scale 1:50000

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LEGEND

Ownership Boundary

KNOCKHARLEY

TUITERATH

PHASE 1 (CELL 1, CELL 2, CELL 3, CELL 4, CELL 5, CELL 6, CELL 7, CELL 8)
PHASE 2 (CELL 7, CELL 8, CELL 9, CELL 10)
PHASE 3 (CELL 9, CELL 10, CELL 11, CELL 12)
PHASE 4 (CELL 13, CELL 14, CELL 15, CELL 16)
PHASE 5 (CELL 17, CELL 18, CELL 19, CELL 20)
PHASE 6 (CELL 21, CELL 22, CELL 23, CELL 24)
PHASE 7 (CELL 25, CELL 26, CELL 27, CELL 28)

220kv

Area under construction

Elm Grove

Ruin

Quarry

1.83m FF

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Rev.	Drawn	Chk'd	Appd	Rev Origin	Date	Description
A	SK	CJC	BG	Cork	10.07.18	Issue For Planning Application

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

OWNERSHIP BOUNDARY LAYOUT

Scales Used	This Drawing was printed to A3:
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Dwg. No.	Rev.
LW14-821-01-P-0000-BDY	A

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SCALE - VERTICAL
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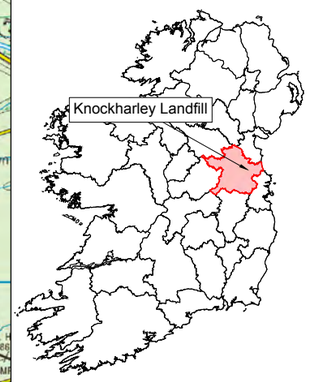
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LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary



SITE LOCATION

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A	SK	CJC	BG	10.07.18	Issue For Planning Application

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Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

1:50,000 SITE LOCATION MAP

Scales Used: 1:50000

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Dwg. No.: LW14-821-01-P-0000-000

Rev.: A

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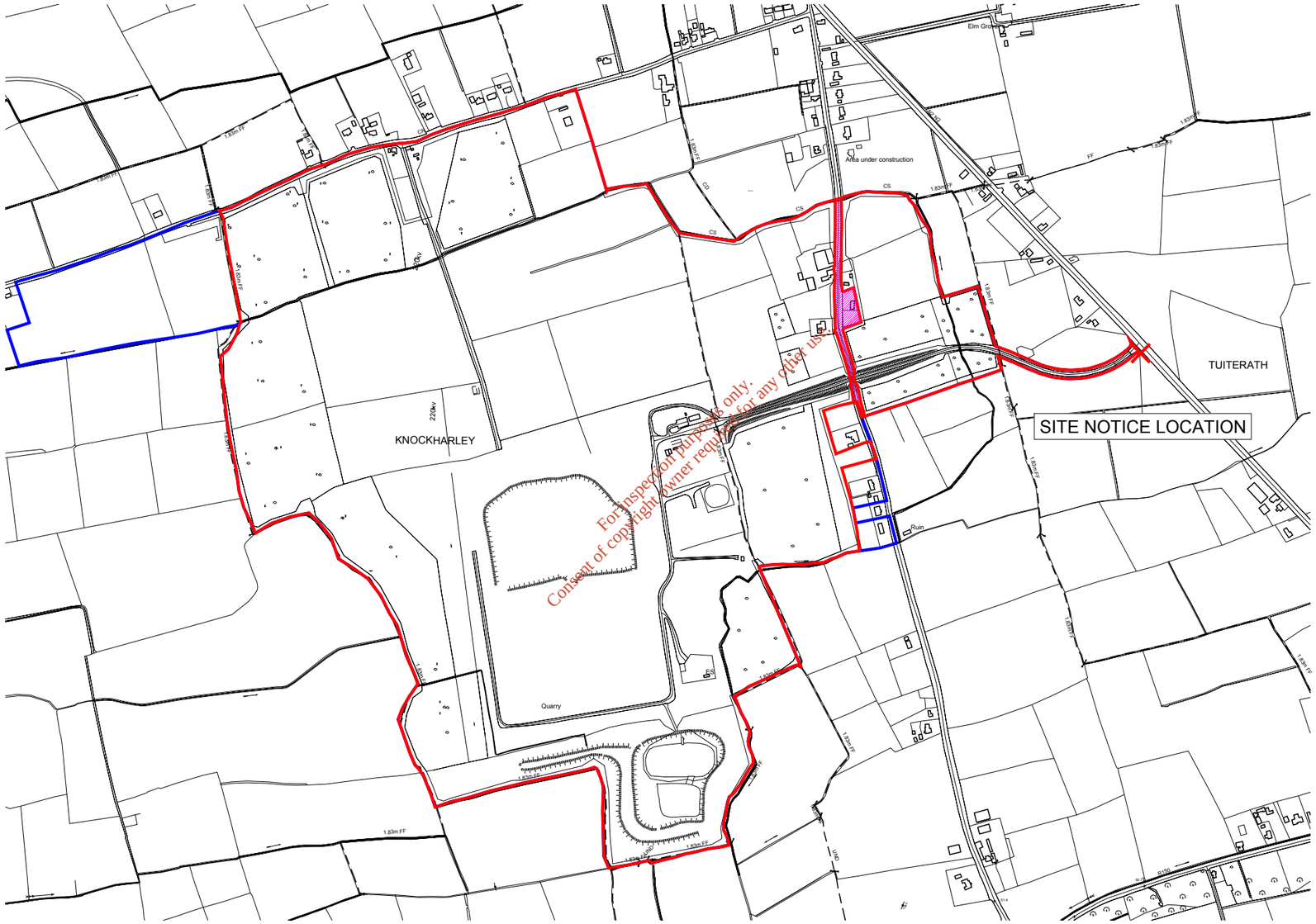
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SCALE HORIZ.
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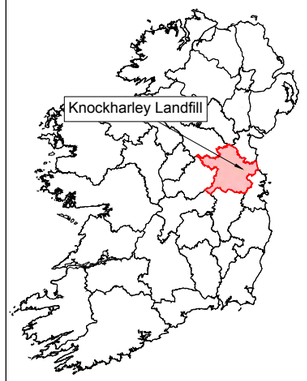
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LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary



Rev.	Drawn	Chk'd	App'd	Rev Origin	Description
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Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

1:10,000 SITE LOCATION MAP

Scales Used 1:10000

This Drawing was printed to A3-

Dwg. No. LW14-821-01-P-0000-001

Rev. A

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0m 50m 100m 150m 200m 250m 300m 350m 400m 450m 500m

Scale 1:10000

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LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary (Refer to dwg P-0000-BDY For Clarity)
- Existing Wayleave
- Ground Contours
- Existing Watercourse
- Landfill Cells currently being filled (2017/ '18)
- Constructed Landfill Cells
- Existing Forested Areas
- Permitted Landfill Cells, To Be Constructed
- Existing Berm

EXISTING SERVICES LEGEND

- ESB Power lines
- Water Supply Pipes
- Storm Sewer
- Telemetry & Power
- Leachate Rising Main
- Groundwater Drainage
- Leachate Collection

PHASE 1 (CELL 1, CELL 2)
PHASE 2 (CELL 3, CELL 4, CELL 5, CELL 6, CELL 7, CELL 8)
PHASE 3 (CELL 9, CELL 10, CELL 11, CELL 12, CELL 13, CELL 14)
PHASE 4 (CELL 15, CELL 16)
PHASE 5 (CELL 17, CELL 18, CELL 19, CELL 20, CELL 21, CELL 22)
PHASE 6 (CELL 23, CELL 24, CELL 25, CELL 26, CELL 27, CELL 28)
PHASE 7

KNOCKHARLEY
TUITERATH
Elm Grove
Area under construction
Quarry
Ruin

Permitted Stream Diversion
Permitted Cell Development
Existing Wheel Wash
Existing Landfill Offices
L1-Existing Leachate Lagoon
Existing Underpass
Existing Cattle Underpass
Existing O/H 20KV Powerline
Existing Landfill Gas Compound
Existing Southern Surface Water Attenuation & Wetland
Existing Screening Berm
Existing gas main
EXISTING GAS MAIN
SITE NOTICE LOCATION

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Refer To Existing Infrastructure References On Drawing P-0050-004

Scale 1:3750
0m 38m 75m 113m 150m 188m 225m 263m 300m 338m 375m

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Revision History: A — EIAR

Name of Client
KNOCKHARLEY LANDFILL LTD.

Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing
EXISTING SITE LAYOUT

Scales Used 1:3750
This Drawing was printed to A1-

Dwg. No. LW14-821-01-P-0000-002
Rev. A
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SCALE - VERTICAL 100 50 20 10 5 0 10

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1:1000 Scale Layout Key

Refer To 1:1000 Scale Layouts For More Details

Proposed Flood Compensatory Culvert & Emergency Spill / Knockharley Stream

Proposed Overhead Electricity Supply

Proposed Northern Surface Water Attenuation Lagoon

Proposed Surface Water Holding Pond

Proposed Wetland

Proposed IBA Facility

Permitted Stream Diversion

Knockharley Stream

Proposed Forestry Compensatory Planting

Proposed Electricity Sub Station 1

Permitted Cell Development

Proposed Increase In Contour Height

KNOCKHARLEY

PHASE 7 PHASE 6 PHASE 5 PHASE 4 PHASE 3 PHASE 2 PHASE 1

CELL 1 CELL 2 CELL 3 CELL 4 CELL 5 CELL 6 CELL 7 CELL 8 CELL 9 CELL 10 CELL 11 CELL 12 CELL 13 CELL 14 CELL 15 CELL 16 CELL 17 CELL 18 CELL 20 CELL 21 CELL 22 CELL 23 CELL 24 CELL 25 CELL 26 CELL 27 CELL 28 CELL 29 CELL 30 CELL 31 CELL 32

70m 80m 85m 60m

Proposed Wheelwash

Existing Wheel Wash

Existing Landfill Offices

L1 L2 L3 L4

L1-Existing Leachate Lagoon

Existing O/H 20kV Powerline

Existing Underpass

Existing Cattle Underpass

Proposed Relocation / Undergrounding Of Electricity Supply

Area under construction

Existing Watermain

Elm Grove

TUITERATH

SITE NOTICE LOCATION

Proposed Extension To Leachate Management Facility

Proposed Leachate Lagoons With Floating Covers

Proposed Electricity Sub Station 2

Proposed Semi mature ash tree planting

Proposed Biological Treatment Facility

Existing Landfill Gas Compound

EXISTING GAS MAIN

Existing Southern Surface Water Attenuation & Wetland

Existing Screening Berm

Existing gas main

Quarry

1.83m FF

P-0000-004 P-0000-005 P-0000-006 P-0000-010 P-0000-011

LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary — Refer to dwg P-0000-BDY For Clarity
- Existing Wayleave
- Ground Contours (90m / 100m)
- Existing Watercourse
- Landfill Cells currently being filled (2017/ '18)
- Constructed Landfill Cells
- Final Forested Areas
- Permitted Landfill Cells, To Be Constructed
- Proposed IBA Facility
- IBA, Cell 33 (Outline Only Shown For Calrity)
- Proposed Screening Berms with New Replanting
- Proposed Stream Diversion
- Existing Berm

EXISTING SERVICES LEGEND

- ESB Power lines
- Water Supply Pipes
- Storm Sewer
- Telemetry & Power
- Leachate Rising Main
- Groundwater Drainage
- Leachate Collection

PROPOSED SERVICES LEGEND

- Power, Telemetry & Gas
- Leachate Collection
- Surface Water Drain
- Water Supply
- Foul Sewer (gravity / pumped)

Rev.	Drawn	Chkd	Appd	Date	Description
A	SK	CJC	BG	Cork 10.07.18	Issue For Planning Application

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED SITE LAYOUT PLAN

Scales Used: 1:3750

This Drawing was printed to A1-

Dwg. No. LW14-821-01-P-0000-003

Rev. A

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SCALE - VERTICAL

ORIGINAL DRAWING SIZE A1 - (841 x 594)

SCALE HORIZ.

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LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary (Refer to dwg P-0000-BDY For Clarity)
- Existing Wayleave
- Ground Contours (90m, 100m)
- Existing Watercourse
- Landfill Cells currently being filled (2017/ '18)
- Constructed Landfill Cells
- Final Forested Areas
- Permitted Landfill Cells, To Be Constructed
- Proposed IBA Facility
- IBA, Cell 33 (Outline Only Shown For Calrity)
- Proposed Screening Berms with New Replanting
- Proposed Stream Diversion
- Existing Berm

EXISTING SERVICES LEGEND

- ESB Power lines
- Water Supply Pipes
- Storm Sewer
- Telemetry & Power
- Leachate Rising Main
- Groundwater Drainage
- Leachate Collection

PROPOSED SERVICES LEGEND

- Power, Telemetry & Gas
- Leachate Collection
- Surface Water Drain
- Water Supply
- Foul Sewer (gravity / pumped)

Rev.	Drawn	Chk'd	App'd	Date	Description
A	SK	CJC	BG	Cork 10.07.18	Issue For Planning Application

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED SITE LAYOUT PLAN
SHEET 1 OF 8

Scales Used	This Drawing was printed to
1:1000	A1 -

Dwg. No.	Rev.
LW14-821-01-P-0000-004	A

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Scale 1:1000 (0m 10m 20m 30m 40m 50m 60m 70m 80m 90m 100m)

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1.83m FF
CR
Proposed Electricity Connection
Permitted Stream Diversion
Proposed Temporary Suspended Solids Management Outfall
Leachate Collection
Power, Telemetry & Gas
Proposed Electricity Sub Station 1
To Site Boundary
259.0m
Knockharley Stream
CELL 27
PHASE 7
CELL 25
70m
80m
62m
225.7
220.8

ORIGINAL DRAWING SIZE A1 - (841 x 594)
SCALE - VERTICAL
SCALE HORIZ.

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Flood Compensatory Embankment
Proposed Temporary Suspended Solids Management Outfall
Proposed Flood Compensatory Culvert & Emergency Spill / Knockharley Stream
Proposed Surface Water Outfall Via Wetland
Proposed Temporary Suspended Solids Management Outfall
Proposed Inlet Structure
Proposed Surface Water Attenuation Lagoon Outfall / Emergency Spill
Proposed Wetland
Proposed Wetland Inlet
Proposed Inlet Structure
Proposed Northern Surface Water Attenuation Lagoon
Drain
100.8m To Site Boundary
Leachate Collection
Power, Telemetry & Gas
Proposed Inlet Structure
Proposed Holding Pond Outfall, Pumpsump & Control Valve Structures
Proposed Surface Water Holding Pond
Leachate Collection
Power, Telemetry & Gas
Proposed Inlet Structure
Proposed Weathering Slab & IBA Facility Building (Temporary)
Stockpile 1
Stockpile 2
Drain
Proposed IBA Facility
Leachate Collection
Power, Telemetry & Gas
Drain
Proposed Embankment Perimeter Swale
80.9m To Site Boundary
1.83m FF
CD
CS
CS
Watermain
Area unde
CELL 28
CELL 26
CELL 24
CELL 32
CELL 31
CELL 30
CELL 29
ASE 7
HASE 8
ESB
W
K
106.6
225.1
20.5
29.6
24.7
13.7
8.7
10.0

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- Proposed Stream Diversion
- Existing Berm

EXISTING SERVICES LEGEND

- ESB Power lines
- Water Supply Pipes
- Storm Sewer
- Telemetry & Power
- Leachate Rising Main
- Groundwater Drainage
- Leachate Collection

PROPOSED SERVICES LEGEND

- Power, Telemetry & Gas
- Leachate Collection
- Surface Water Drain
- Water Supply
- Foul Sewer (gravity / pumped)

Rev.	Drawn	Chk'd	App'd	Date	Description
A	SK	CJC	BG	Cork 10.07.18	Issue For Planning Application
Revision History	A				EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED SITE LAYOUT PLAN

SHEET 2 OF 8

Scales Used	This Drawing was printed to
1:1000	A1 -

Dwg. No.	Rev.
LW14-821-01-P-0000-005	A

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Scale 1:1000 (0m 10m 20m 30m 40m 50m 60m 70m 80m 90m 100m)

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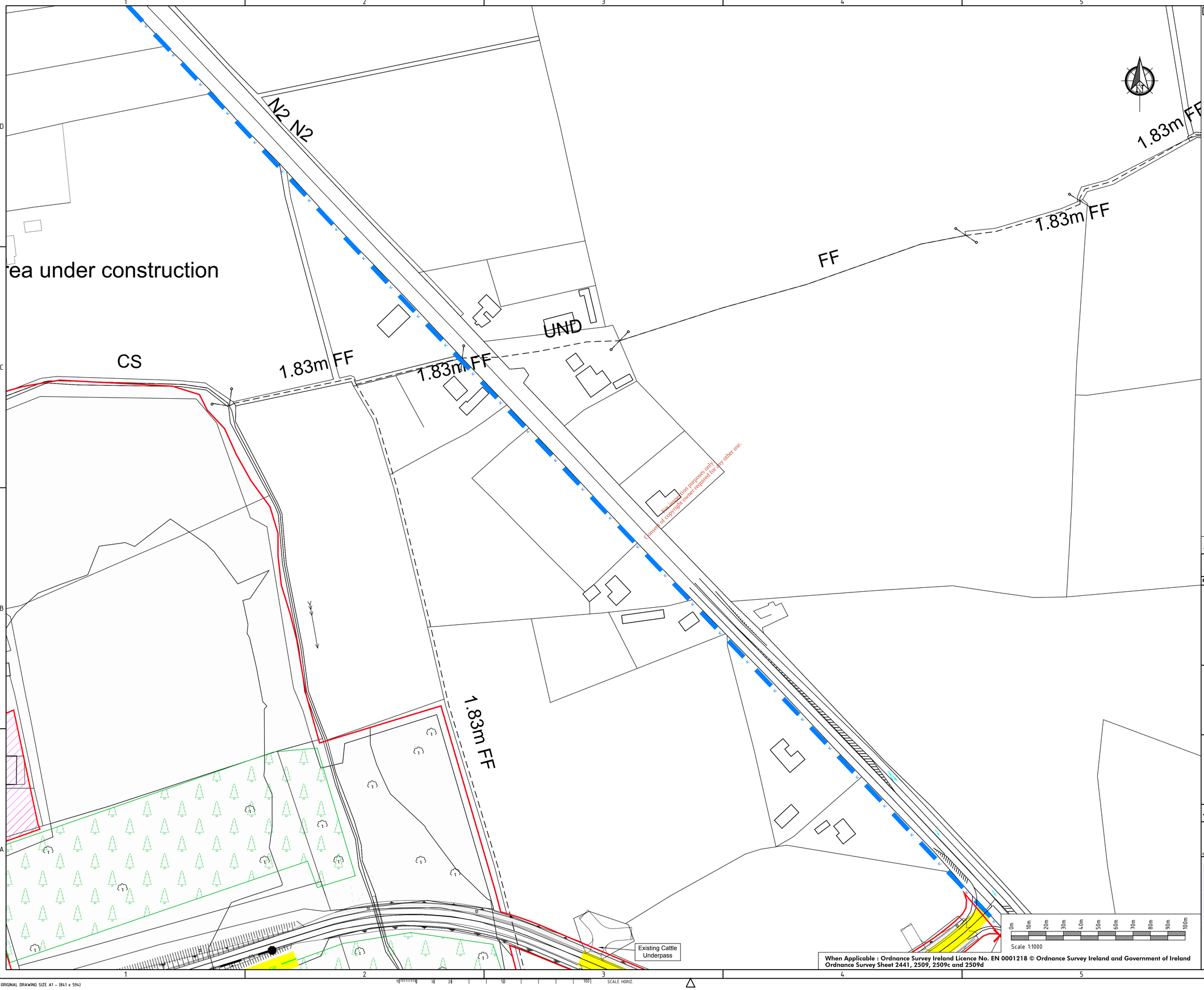
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ORIGINAL DRAWING SIZE A1 - (841 x 594)

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- Proposed Stream Diversion
- Existing Berm

EXISTING SERVICES LEGEND

- ESB Power lines (ESB)
- Water Supply Pipes (W)
- Storm Sewer (SS)
- Telemetry & Power (T+P)
- Leachate Rising Main (LR)
- Groundwater Drainage
- Leachate Collection

PROPOSED SERVICES LEGEND

- Power, Telemetry & Gas
- Leachate Collection
- Surface Water Drain
- Water Supply
- Foul Sewer (gravity / pumped)

Rev.	Drawn	Chk'd	App'd		
A	SK	CJC	BG	Cork 10.07.18	Issue For Planning Application
Revision History				Rev Origin / Date	Description
A					EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED SITE LAYOUT PLAN

SHEET 3 OF 8

Scales Used	This Drawing was printed to
1:1000	A1-

Dwg. No.	Rev.
LW14-821-01-P-0000-006	A

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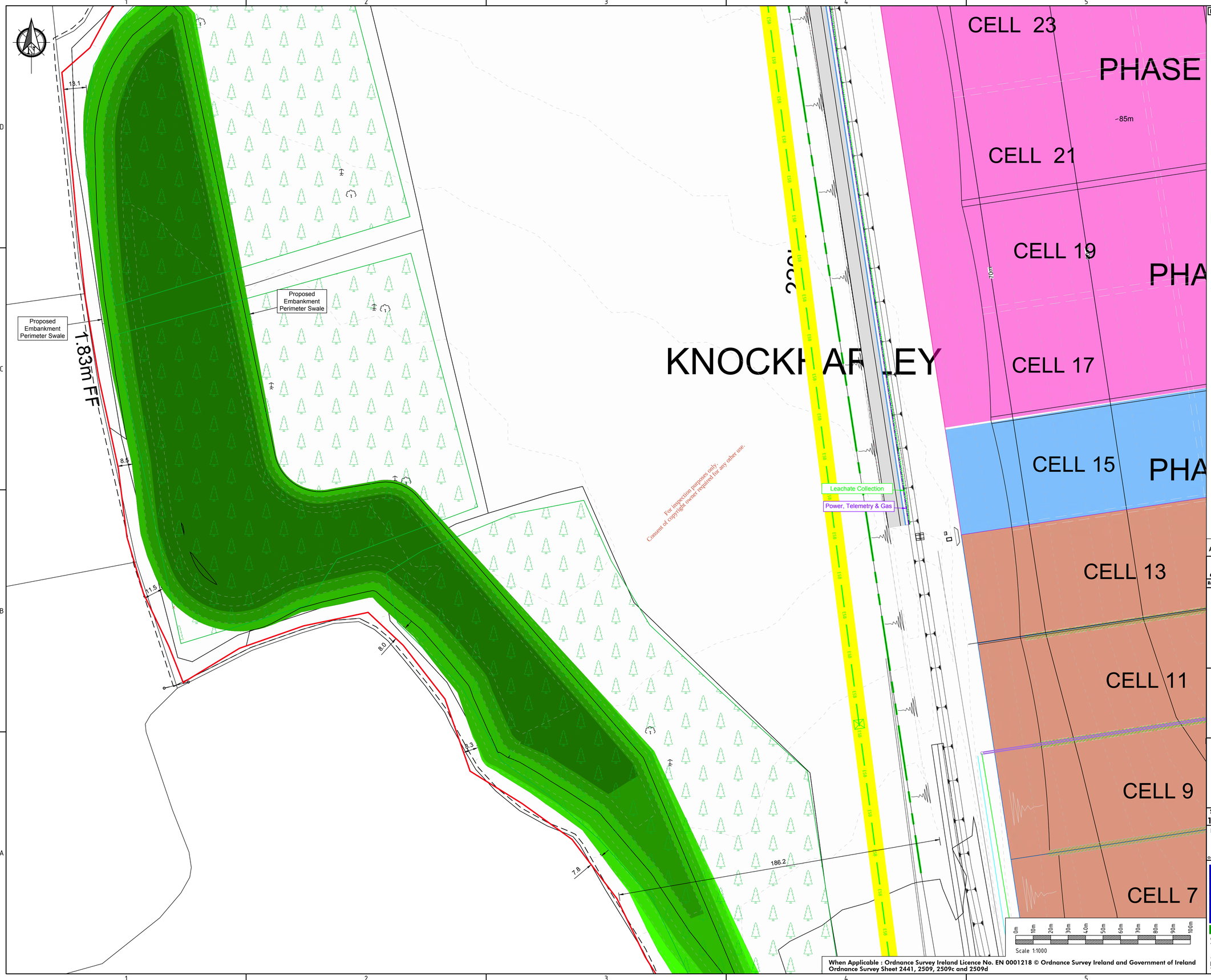
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SCALE HORIZ. (10 20 50 100)

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- Proposed Stream Diversion
- Existing Berm

EXISTING SERVICES LEGEND

- ESB Power lines
- Water Supply Pipes
- Storm Sewer
- Telemetry & Power
- Leachate Rising Main
- Groundwater Drainage
- Leachate Collection

PROPOSED SERVICES LEGEND

- Power, Telemetry & Gas
- Leachate Collection
- Surface Water Drain
- Water Supply
- Foul Sewer (gravity / pumped)

Rev.	Drawn	Chkd	App'd	Date	Description
A	SK	CJC	BG	Cork 10.07.18	Issue For Planning Application

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED SITE LAYOUT PLAN

SHEET 4 OF 8

Scales Used	This Drawing was printed to
1:1000	A1-

Dwg. No.	Rev.
LW14-821-01-P-0000-007	A

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0m 10m 20m 30m 40m 50m 60m 70m 80m 90m 100m
Scale 1:1000

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ORIGINAL DRAWING SIZE A1 - (841 x 594)

SCALE HORIZ. 10 20 50 100

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PHASE 6

CELL 22

CELL 20

PHASE 5

CELL 18

CELL 16

PHASE 4

CELL 14

CELL 13

CELL 12

CELL 11

PHASE 3

CELL 10

CELL 9

CELL 8

CELL 7

PHASE 2

CELL 6

CELL 32

CELL 31

CELL 30

Proposed IBA Facility

Proposed Haul Road

Leachate Collection

Power, Telemetry & Gas

Proposed Petrol Interceptor

Proposed Embankment Perimeter Swale

Connect To Existing Sewer

Drain

Proposed Carpark Extension

Existing Landfill Offices

Existing Weighbridges & Hut

S3 - Tank, 20Ø x 6m High

S4 - Tank, 25Ø x 6m High

Proposed Bund

S5 - Tank 10Ø x 6m High

S1-Tank 25Ø x 6m High

S2-Tank 25Ø x 6m High

Existing Maintenance Area

Proposed Wheelwash

Proposed Leachate Treatment Facility, 40x40m

Proposed Tanker Loading Area

Existing Wheel Wash

Proposed Extension To Leachate Management Facility

L1-Existing Leachate Lagoon

Proposed Leachate Lagoons With Floating Covers

214.5m To Site Boundary

220.5m To Site Boundary

106.2m To Site Boundary

564.2m To Site Boundary

Existing O/H 20kV Powerline

Proposed Electricity Sub Station 2

Proposed Septic Tank and Pump Sump

Proposed Biological Treatment Facility

Ramp Down

Proposed Semi mature ash tree planting

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EXISTING SERVICES LEGEND

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PROPOSED SERVICES LEGEND

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Rev.	Drawn	Chk'd	App'd	Date	Description
A	SK	CJC	BG	Cork 10.07.18	Issue For Planning Application
Revision History	A			Rev Origin	EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED SITE LAYOUT PLAN

SHEET 5 OF 8

Scales Used	This Drawing was printed to
1:1000	A1-

Dwg. No.	Rev.
LW14-821-01-P-0000-008	A

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Scale 1:1000

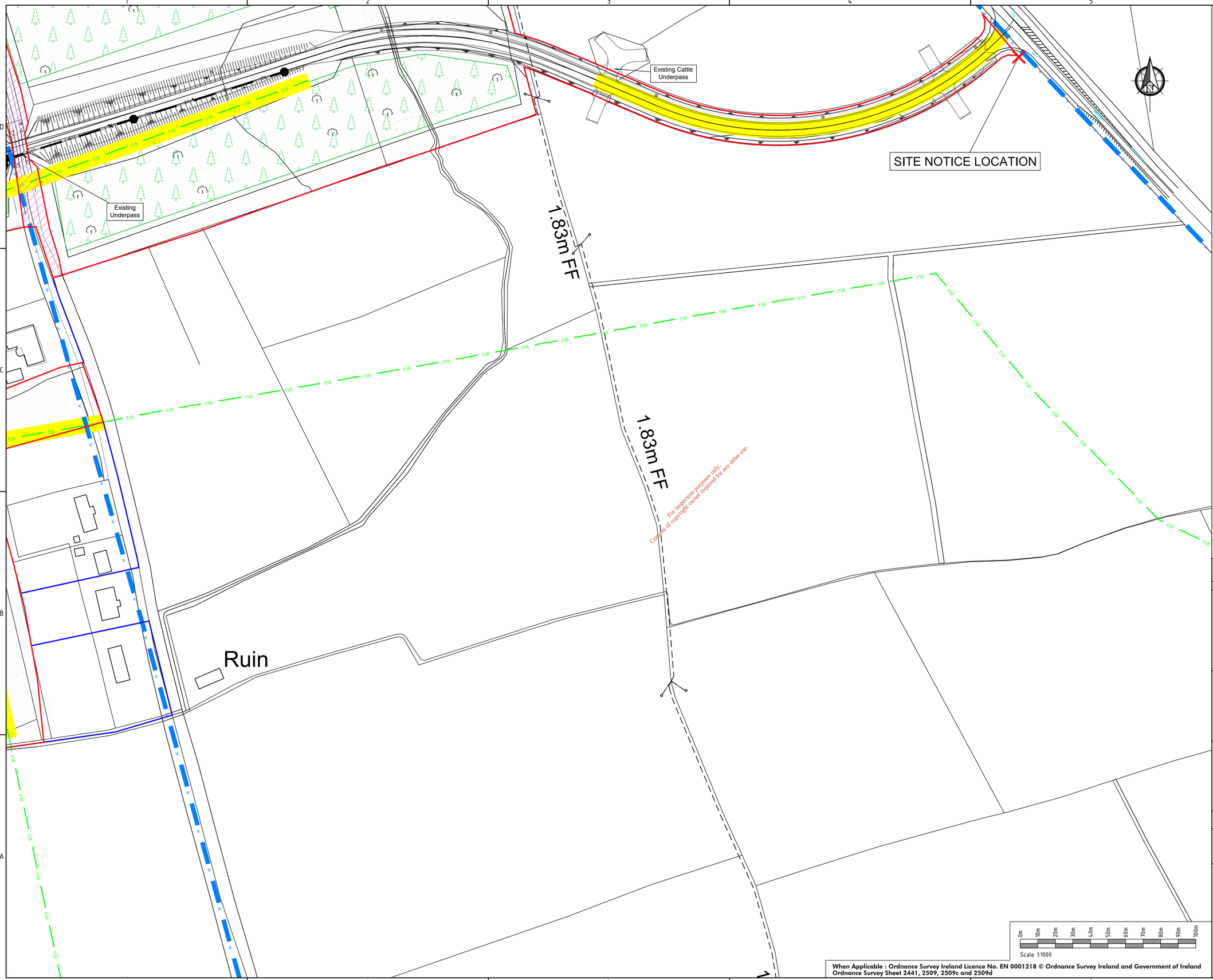
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SCALE HORIZ.

SCALE - VERTICAL

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EXISTING SERVICES LEGEND

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PROPOSED SERVICES LEGEND

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Rev.	Drawn	Chk'd	App'd		
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Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED SITE LAYOUT PLAN

SHEET 6 OF 8

Scales Used	This Drawing was printed to
1:1000	A1-

Dwg. No.	Rev.
LW14-821-01-P-0000-009	A

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Scale 1:1000 (0m, 10m, 20m, 30m, 40m, 50m, 60m, 70m, 80m, 90m, 100m)

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ORIGINAL DRAWING SIZE A1 - (841 x 594)
SCALE HORIZ. (0, 10, 20, 50, 100)
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Existing gas main

1.83m FF

1.83m FF

8.2

7.9

6.3

7.7

Proposed Embankment Perimeter Swale

Proposed Embankment Perimeter Swale

ESB

CELL

CELL

CEL

Qua

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PROPOSED SERVICES LEGEND

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Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED SITE LAYOUT PLAN

SHEET 7 OF 8

Scales Used 1:1000

This Drawing was printed to A1-

Dwg. No. LW14-821-01-P-0000-010

Rev. A

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SCALE - VERTICAL

SCALE HORIZ.

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CELL 6
CELL 5
CELL 4
CELL 3
CELL 2
CELL 1 PHASE 1
70m
Quarry
60m
Proposed Biological Treatment Facility
Proposed Petrol Interceptor
Proposed Below Ground 120m³ Leachate Tank Submersible Foul Pumping Station
To Site Boundary
125.3m
Existing Landfill Gas Compound
ES
Proposed 100mm Dia. Pumped Infill Feed From Rainwater Tank
1.83m FF
Existing 100mm Dia. Pumped Feed From Attenuation Pond
Existing Pump Station (duty & Stand-by) To Draw Off Water From Surface Water Attenuation Pond During High Demand Periods
Existing Southern Surface Water Attenuation & Wetland
Existing Screening Berm
1.83m FF
UND
ESB
SS
T+P
W
LR

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- Existing Wayleave
- Ground Contours (90m / 100m)
- Existing Watercourse
- Landfill Cells currently being filled (2017/'18)
- Constructed Landfill Cells
- Final Forested Areas
- Permitted Landfill Cells, To Be Constructed
- Proposed IBA Facility
- IBA, Cell 33 (Outline Only Shown For Calrity)
- Proposed Screening Berms with New Replanting
- Proposed Stream Diversion
- Existing Berm

EXISTING SERVICES LEGEND

- ESB Power lines
- Water Supply Pipes
- Storm Sewer
- Telemetry & Power
- Leachate Rising Main
- Groundwater Drainage
- Leachate Collection

PROPOSED SERVICES LEGEND

- Power, Telemetry & Gas
- Leachate Collection
- Surface Water Drain
- Water Supply
- Foul Sewer (gravity / pumped)

Rev.	Drawn	Chk'd	App'd		
A	SK	CJC	BG	Cork 10.07.18	Issue For Planning Application

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED SITE LAYOUT PLAN
SHEET 8 OF 8

Scales Used	This Drawing was printed to
1:1000	A1-

Dwg. No.	Rev.
LW14-821-01-P-0000-011	A

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Scale 1:1000

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SCALE - VERTICAL
SCALE HORIZ.
ORIGINAL DRAWING SIZE A1 - (841 x 594)

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LEGEND

- Planning Boundary
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- Proposed Stream Diversion
- Existing Berm

Options considered:

- Option 1 – IBA storage facility – east of the existing permitted landfill footprint
- Option 2 – IBA storage facility - west of the existing permitted landfill footprint
- Option 3 – Biological treatment facility Location 1
- Option 4 – Biological treatment facility Location 2

Rev.	Drawn	Chk'd	App'd	Date	Description
A	SK	CJC	BG	10.07.18	Issue For Planning Application

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

ASSESSMENT OF ALTERNATIVES

Scales Used 1:3750

This Drawing was printed to A1-

Dwg. No. LW14-821-01-P-0000-012

Rev. A

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Scale 1:3750

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Proposed Temporary Suspended Solids Management Outfall
Proposed Surface Water Outfall Via Wetland
Proposed Flood Compensatory Culvert & Emergency Spill / Knockharley Stream
Proposed Temporary Suspended Solids Management Outfall
Proposed Inlet Structure
Proposed Wetland
Proposed Surface Water Attenuation Lagoon Outfall / Emergency Spill
Proposed Wetland Inlet
Leachate Collection
Power, Telemetry & Gas
Proposed Inlet Structure
Proposed Northern Surface Water Attenuation Lagoon
Drain
Proposed Inlet Structure
Proposed Holding Pond Outfall, Pumpsump & Control Valve Structures
Proposed Surface Water Holding Pond
1.83m FF
CD
CS
CELL 28
CELL 26
CELL 24
CELL 22
CELL 20
CELL 18
Leachate Collection
Power, Telemetry & Gas
Proposed Inlet Structure
Stockpile 1
Stockpile 2
Proposed Weathering Slab & IBA Facility Building (Temporary)
Drain
Leachate Collection
Power, Telemetry & Gas
CELL 32
CELL 31
CELL 30
CELL 29
Proposed IBA Facility
Proposed Haul Road
Leachate Collection
Power, Telemetry & Gas
Match Line
Drain
Match Line
Drain
Proposed Carpark Extension
Existing Landfill Offices
Proposed Carpark Extension
Existing Weighbridges & Hut
S3 - Tank, 20Ø x 6m High
Leachate Collection
Power, Telemetry & Gas
Proposed Wheelwash
Drain
Existing Maintenance Area
S4 - Tank, 25Ø x 6m High
Proposed Bund
Drain
S5 - Tank 10Ø x 6m High
Proposed Leachate Treatment Facility, 40x40m
1.83m FF
Existing Wheel Wash
S1-Tank 25Ø x 6m High
S2-Tank 25Ø x 6m High
X2
Proposed Tanker Loading Area
Drain
Proposed Extension To Leachate Management Facility
L1-Existing Leachate Lagoon
X1
X1
Proposed Tanker Loading Area
Proposed Leachate Lagoons With Floating Covers
Drain
Exis
20k
X2
Proposed Septic Tank and Pump Sump
Proposed Electricity Sub Station 2
Leachate Collection
Power, Telemetry & Gas
Ramp Down
Ramp Down
Proposed Biological Treatment Facility
Proposed Petrol Interceptor
Proposed Below Ground 120m³ Leachate Tank Submersible Foul Pumping Station
Existing Landfill Gas Compound
ES
Proposed 100mm Dia. Pumped Infill Feed From Rainwater Tank
0m 10m 20m 30m 40m 50m 60m 70m 80m 90m 100m
Scale 1:1000
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SCALE - VERTICAL 100 50 20 10 5 0 10
SCALE HORIZ. 0 10 20 50 100
ORIGINAL DRAWING SIZE A1 - (841 x 594)

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LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary — Refer to dwg P-0000-BDY For Clarity
- Existing Wayleave
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PROPOSED SERVICES LEGEND

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- Surface Water Drain
- Water Supply
- Foul Sewer (gravity / pumped)

Rev.	Drawn	Chkd	Appd	Date	Description
A	SK	CJC	BG	Cork 10.07.18	Issue For Planning Application
Revision History	A			Rev Origin	EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PLAN SHOWING PROPOSED INFRASTRUCTURE WORK

Scales Used	This Drawing was printed to
1:1000	A1-

Dwg. No.	Rev.
LW14-821-01-P-0000-013	A

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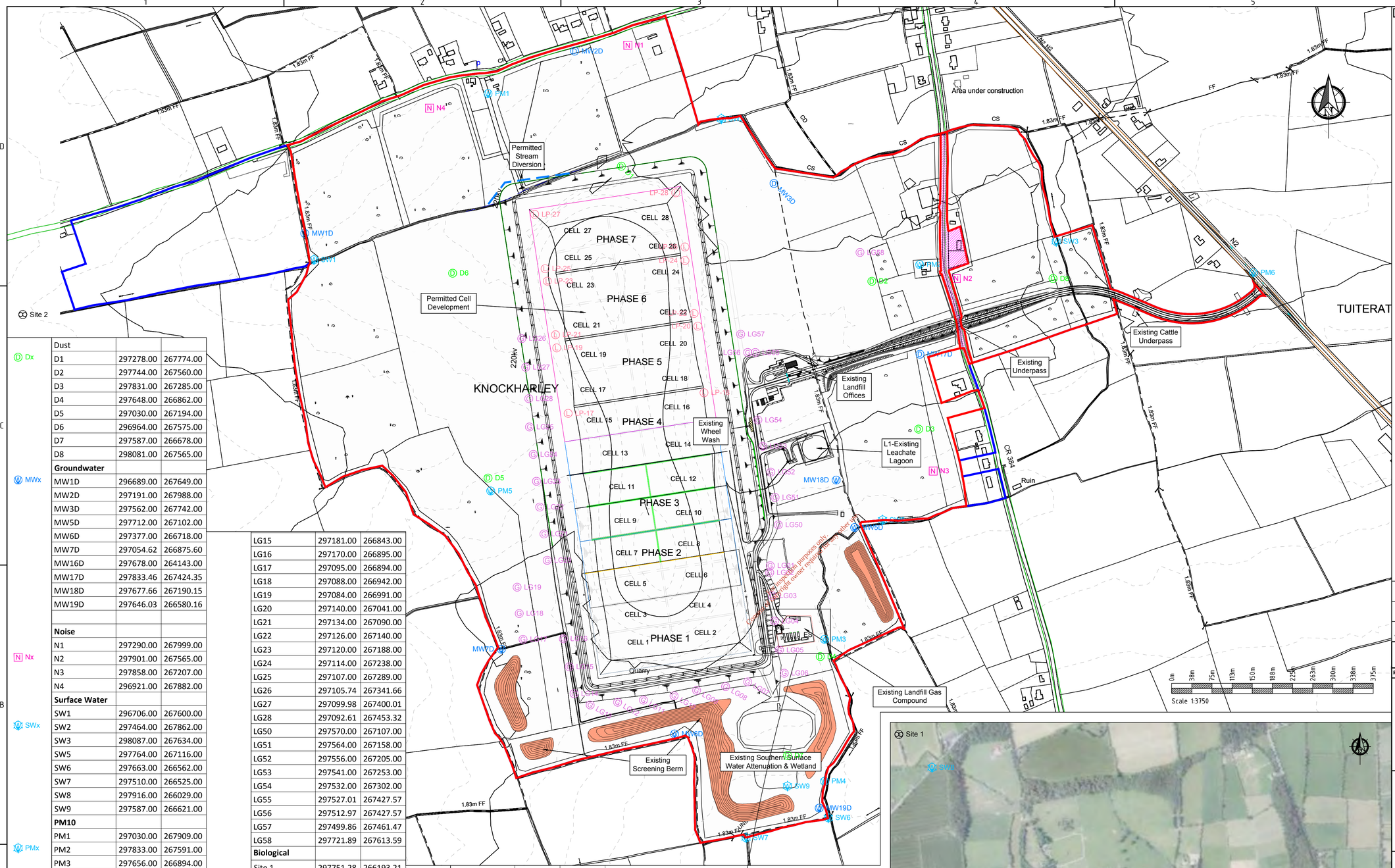
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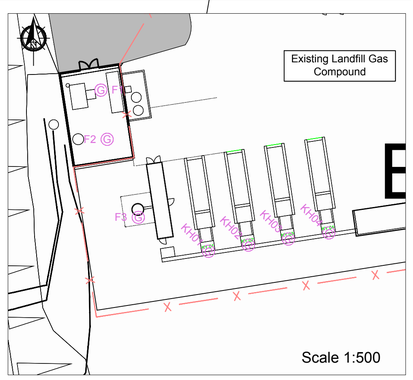
LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary

Note: MW17D, MW18D and MW19D were Installed in 2016 for baseline monitoring for proposed development

	Dust		
Dx	D1	297278.00	267774.00
	D2	297744.00	267560.00
	D3	297831.00	267285.00
	D4	297648.00	266862.00
	D5	297030.00	267194.00
	D6	296964.00	267575.00
	D7	297587.00	266678.00
	D8	298081.00	267565.00
	Groundwater		
MWx	MW1D	296689.00	267649.00
	MW2D	297191.00	267988.00
	MW3D	297562.00	267742.00
	MW5D	297712.00	267102.00
	MW6D	297377.00	266718.00
	MW7D	297054.62	266875.60
	MW16D	297678.00	264143.00
	MW17D	297833.46	267424.35
	MW18D	297677.66	267190.15
	MW19D	297646.03	266580.16
	Noise		
Nx	N1	297290.00	267999.00
	N2	297901.00	267565.00
	N3	297858.00	267207.00
	N4	296921.00	267882.00
	Surface Water		
SWx	SW1	296706.00	267600.00
	SW2	297464.00	267862.00
	SW3	298087.00	267634.00
	SW5	297764.00	267116.00
	SW6	297663.00	266562.00
	SW7	297510.00	266525.00
	SW8	297916.00	266029.00
	SW9	297587.00	266621.00
	PM10		
PMx	PM1	297030.00	267909.00
	PM2	297833.00	267591.00
	PM3	297656.00	266894.00
	PM4	297656.00	266630.00
	PM5	297035.00	267170.00
	PM6	298454.00	267576.00
	Landfill Gas		
LGx	LG01	297555.00	267031.00
	LG02	297554.00	267018.00
	LG03	297559.00	266975.00
	LG04	297563.00	266928.00
	LG05	297572.00	266874.00
	LG06	297581.00	266831.00
	LG07	297513.00	266815.00
	LG08	297472.00	266806.00
	LG09	297418.00	266799.00
	LG10	297376.00	266789.00
	LG11	297319.00	266781.00
	LG12	297271.00	266777.00
	LG13	297220.00	266772.00
	LG14	297190.00	266793.00
	LG15	297181.00	266843.00
	LG16	297170.00	266895.00
	LG17	297095.00	266894.00
	LG18	297088.00	266942.00
	LG19	297084.00	266991.00
	LG20	297140.00	267041.00
	LG21	297134.00	267090.00
	LG22	297126.00	267140.00
	LG23	297120.00	267188.00
	LG24	297114.00	267238.00
	LG25	297107.00	267289.00
	LG26	297105.74	267341.66
	LG27	297099.98	267400.01
	LG28	297092.61	267453.32
	LG50	297570.00	267107.00
	LG51	297564.00	267158.00
	LG52	297556.00	267205.00
	LG53	297541.00	267253.00
	LG54	297532.00	267302.00
	LG55	297527.01	267427.57
	LG56	297512.97	267427.57
	LG57	297499.86	267461.47
	LG58	297721.89	267613.59
	Biological		
SiteX	Site 1	297751.28	266193.21
	Site 2	296164.36	267498.06
	Site 3	300118.26	264757.42
	Site 4	297817.74	265030.67
	Leachate		
LPx	LP-1	297217.00	266895.00
	LP-2	297523.00	266943.00
	LP-3	297216.00	266904.00
	LP-4	297520.00	266962.00
	LP-5	297200.00	267006.00
	LP-6	297505.00	267051.00
	LP-7	297197.00	267107.00
	LP-8	297501.00	267072.00
	LP-9	297196.00	267106.00
	LP-10	297194.00	267112.00
	LP-11	297180.00	267137.00
	LP-12	297482.00	267183.00
	LP-13		
	LP-14	297463.00	267304.00
	LP-S	297612.00	267263.00
	Air		
	LFG Plant		
KHx	KH01	297589.09	266889.81
	KH02	297595.61	266890.81
	KH03	297602.14	266891.81
	KH04	297608.74	266892.81
Fx	F1	297571.54	266916.10
	F2	297572.56	266908.08
	F3	297577.64	266895.34







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Rev.	Drawn	Chk'd	App'd		
A		CJC	BG	Cork 10.07.18	Issue For Planning Application
				Rev Origin Date	Description

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

EXISTING MONITORING POINTS

Scales Used	This Drawing was printed to
1:3750	A1-

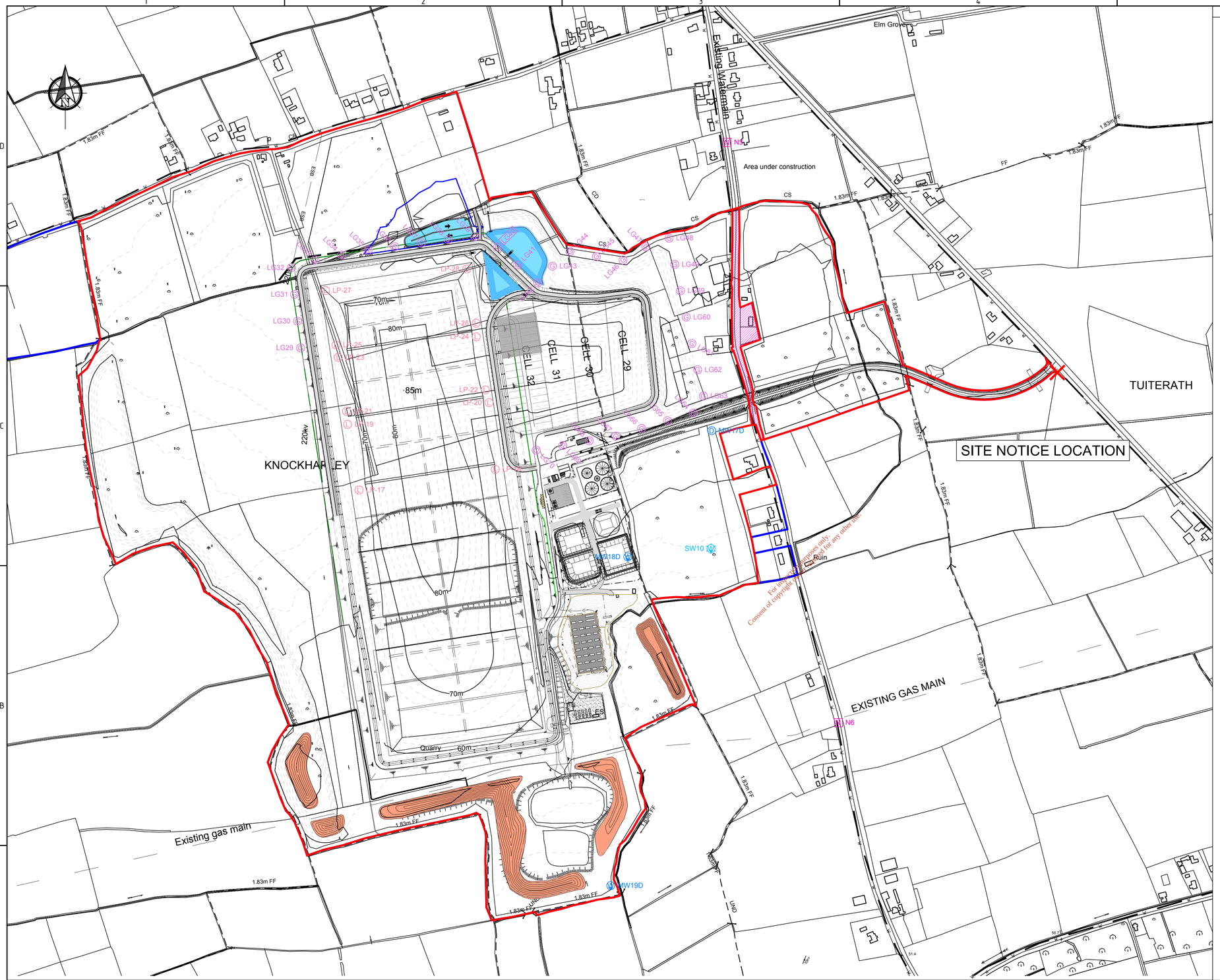
Dwg. No. LW14-821-01-P-0050-001 — Rev. A

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SCALE - VERTICAL
SCALE HORIZ.
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SCALE - VERTICAL

REF	EASTING	NORTHING
Gas		
LG29	297070	267578
LG30	297065	267628
LG31	297059	267677
LG32	297053	267727
LG33	297097	267741
LG34	297146	267750
LG35	297196	267759
LG36	297245	267766
LG37	297295	267773
LG38	297344	267779
LG39	297394	267785
LG40	297436	267765
LG41	297473	267732
LG42	297511	267699
LG43	297538	267730
LG44	297570	267757
LG45	297619	267747
LG46	297669	267741
LG47	297711	267766
LG48	297754	267782
LG49	297765	267733
LG59	297776	267684
LG60	297786	267635
LG61	297797	267586
LG62	297807	267538
LG63	297818	267489
LG64	297799	267457
LG65	297751	267443
LG66	297703	267429
LG67	297655	267414
LG68	297606	267406
LG69	297557	267397
LG70	297508	267388
Groundwater		
MW17D	297833	267424
MW18D	297678	267190
MW19D	297646	266580
Noise		
N5	297862	267959
N6	298069	266882
Surfacewater		
SW10	297832	267206
Leachate		
LP-17	297178.9149	267314.3403
LP-18	297431.7139	267352.6671
LP-19	297157.7742	267436.1495
LP-20	297420.2549	267476.5585
LP-21	297155.4964	267460.4859
LP-22	297413.2442	267500.0493
LP-23	297140.2212	267560.3116
LP-24	297396.3194	267598.6386
LP-25	297136.0972	267583.3901
LP-26	297396.3194	267623.7777
LP-27	297116.7019	267684.5522
LP-28	297378.986	267724.5276

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LEGEND

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Rev.	Drawn	Chk'd	App'd	Date	Description
A	SK	CJC	BG	Cork 10.07.18	Issue For Planning Application
Revision History	A			Rev Origin	EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED ENVIRONMENTAL MONITORING LOCATIONS

Scales Used	This Drawing was printed to
1:3750	A1-

Dwg. No.	Rev.
LW14-821-01-P-0050-002	A

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Scale 1:3750

0m 38m 75m 113m 150m 188m 225m 263m 300m 338m 375m

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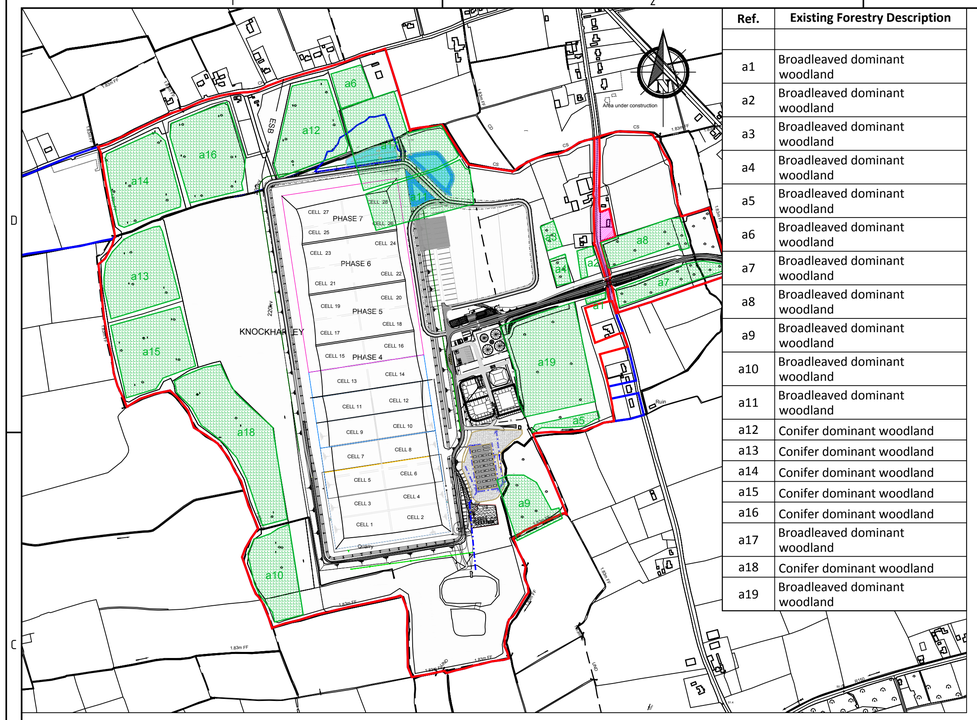
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ORIGINAL DRAWING SIZE A1 - (841 x 594)

SCALE HORIZ.

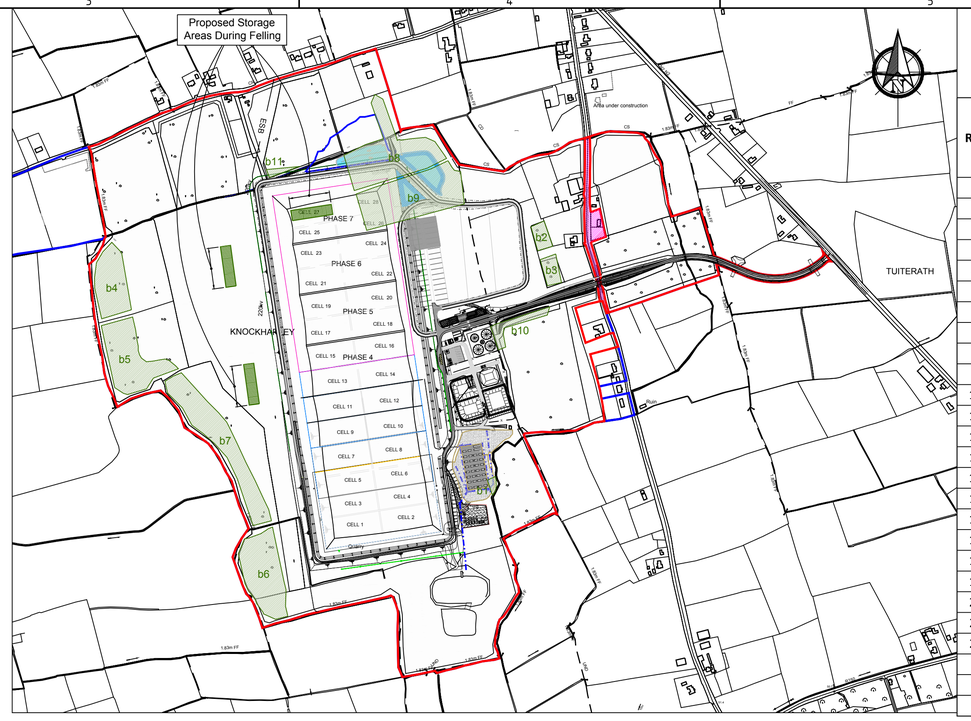
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Ref.	Existing Forestry Description
a1	Broadleaved dominant woodland
a2	Broadleaved dominant woodland
a3	Broadleaved dominant woodland
a4	Broadleaved dominant woodland
a5	Broadleaved dominant woodland
a6	Broadleaved dominant woodland
a7	Broadleaved dominant woodland
a8	Broadleaved dominant woodland
a9	Broadleaved dominant woodland
a10	Broadleaved dominant woodland
a11	Broadleaved dominant woodland
a12	Conifer dominant woodland
a13	Conifer dominant woodland
a14	Conifer dominant woodland
a15	Conifer dominant woodland
a16	Conifer dominant woodland
a17	Broadleaved dominant woodland
a18	Conifer dominant woodland
a19	Broadleaved dominant woodland

(a) EXISTING FOREST PLANTING

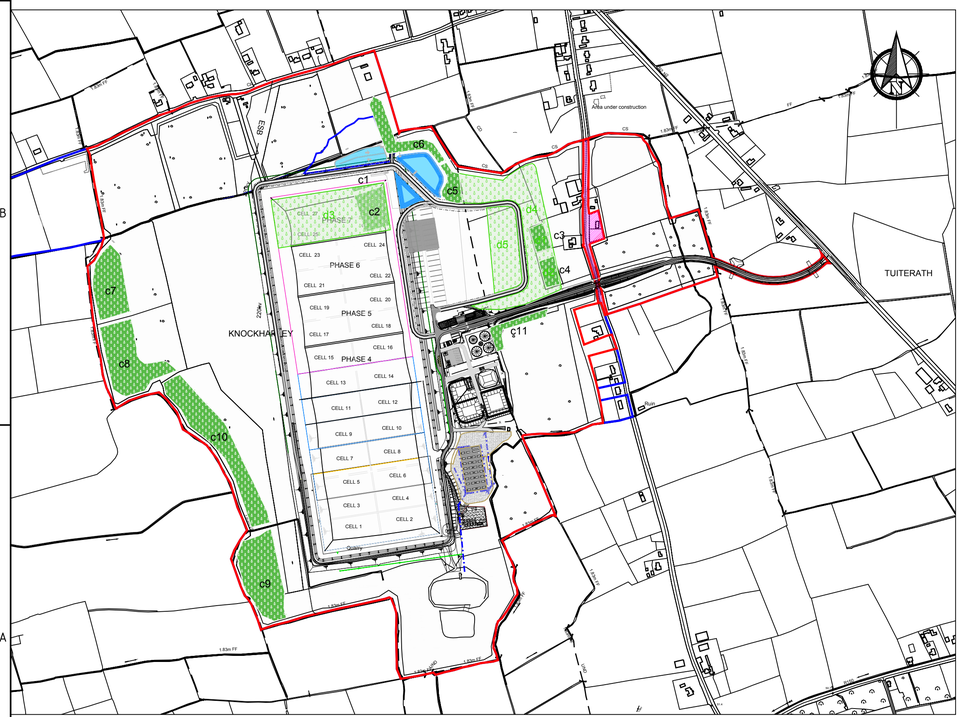


(b) PROPOSED FOREST FELLING

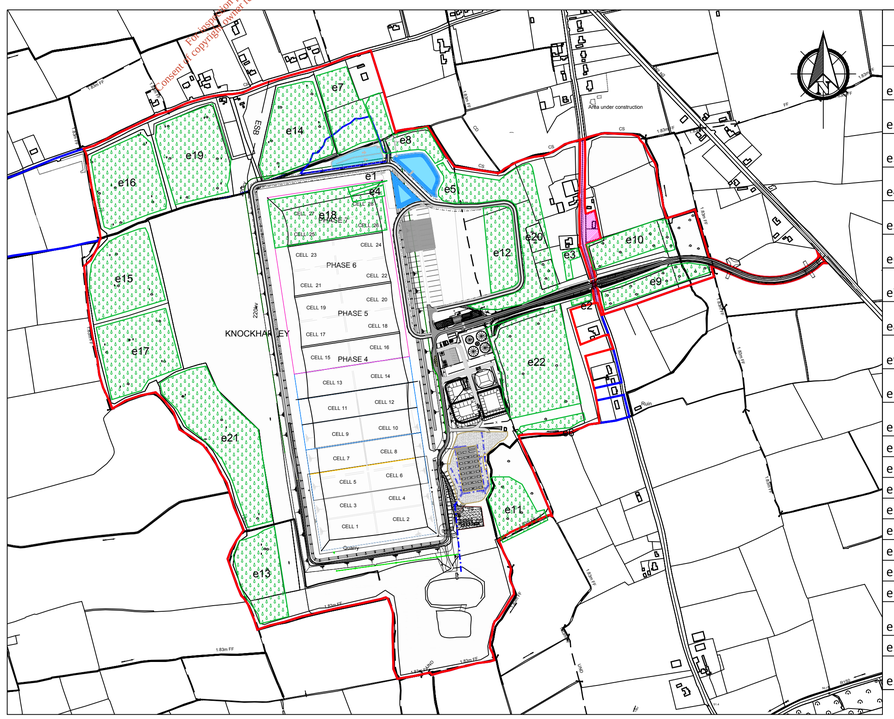
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Ref.	Existing Forestry, (a)	Existing Forestry To Be Cut, (b)	Existing Forestry To Be Restored, (c)	New Forestry (New), (d)	Final Forestry Planting Areas. (e)
1	673	592	649	-2315	649
2	1677	2315	2315	-2596	673
3	2315	2596	2596	13916	1677
4	2596	11689	3257	32551	1728
5	3349	16793	3410	33676	3257
6	6909	17435	6575		3349
7	11269	21152	7061		17420
8	13677	23414	11689		11050
9	14348	25483	16793		11269
10	20878	3410	17435		13677
11	25716	794	21152		13756
12	28322				13916
13	28857				20878
14	29551				28322
15	29852				28857
16	32339				29551
17	38762				29852
18	42256				30190
19	43708				32339
20					32551
21					42256
22					43708
	Areas in sq. meters				
	377054	125673	92932	75232	410925

Reforestation means restoring forestry in areas that were felled to facilitate development.
New forestation means planting forestry in areas that were not previously forested to maintain the same level of forestry on the site.



(c) AREAS OF PROPOSED FORESTRY RESTORATION &
(d) NEW PLANTING



Ref.	Final Proposed Forestry Description
e1	Broadleaved dominant woodland
e2	Broadleaved dominant woodland
e3	Broadleaved dominant woodland
e4	Broadleaved dominant woodland
e5	Broadleaved dominant woodland
e6	Broadleaved dominant woodland
e7	Broadleaved dominant woodland
e8	Broadleaved dominant woodland
e9	Broadleaved dominant woodland
e10	Broadleaved dominant woodland
e11	Broadleaved dominant woodland
e12	Conifer dominant woodland
e13	Conifer dominant woodland
e14	Conifer dominant woodland
e15	Conifer dominant woodland
e16	Conifer dominant woodland
e17	Conifer dominant woodland
e18	Conifer dominant woodland
e19	Conifer dominant woodland
e20	Broadleaved dominant woodland
e21	Conifer dominant woodland
e22	Broadleaved dominant woodland

(e) PROPOSED FINAL FOREST PLANTING

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0m 75m 150m 225m 300m 375m 450m 525m 600m 675m 750m
Scale 1:7500

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Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Drawn	Chk'd	C/C	App'd	BG	Rev Origin	Description
A						Cork 10.07.18	Issue For Planning Application
Revision History	A						EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT
AT KNOCKHARLEY LANDFILL

Title of Drawing

EXISTING FORESTATION
PROPOSED FELLING
& NEW PLANTING

Scales Used	This Drawing was printed to
1:7500	A1 -

Dwg. No.	Rev.
LW14-821-01-P-0050-003	A

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ORIGINAL DRAWING SIZE A1 - (841 x 594)
SCALE HORIZ.
SCALE - VERTICAL
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LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary — Refer to dwg P-0000-BDY For Clarity
- Existing Wayleave
- Ground Contours (90m / 100m)
- Existing Watercourse
- Landfill Cells currently being filled (2017/ '18)
- Constructed Landfill Cells
- Existing Forested Areas
- Permitted Landfill Cells, To Be Constructed

REFERENCE

1	Administration building
2	Machinery/maintenance garage
3	Portable cabins for storage (4 No)
4	Weighbridge Building
5	Weighbridge (2 No.)
6	Inspection slab
7	Quarantine slab
8	Car parking
9	Landfill gas treatment compound
10	Leachate lagoon
11	Surface water attenuation lagoon and wetland

Scale 1:1000

Scale 1:3750

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Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Drawn	Chk'd	App'd	Date	Description
A	SK	CJC	BG	10.07.18	Issue For Planning Application

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

EXISTING SITE LAYOUT WITH INFRASTRUCTURE LOCATIONS

Scales Used	This Drawing was printed to
1:3750	A1.

Dwg. No. LW14-821-01-P-0050-004 — Rev. A

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LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary — Refer to dwg P-0000-BDY For Clarity
- Existing Wayleave
- Ground Contours
- Existing Watercourse
- Landfill Cells currently being filled (2017/ '18)
- Constructed Landfill Cells
- Final Forested Areas
- Permitted Landfill Cells, To Be Constructed
- 1a / 1c — Proposed IBA Facility
- IBA / 1b — IBA, Cell 33 (Outline Only Shown For Calrity)
- Proposed Screening Berms with New Replanting
- Proposed Stream Diversion
- Existing Berm

REFERENCE

1	**Proposed waste types, activities & quantities**
1a	Non stabilised residual
1b	IBA
1c	"Inert" + stabilised
2	**Proposed intensification of landfilling**
2a	Increased profile
2b	Revised cell layout and additional working faces
3	**Proposed dedicated IBA cells**
3a	IBA Cell layout
3b	Additional road access
3c	Additional wheel wash
3d	Suspended solids management leachate
3e	Additional side risers and rising mains
3f	Suspended solids management
3g	Weathering area and temporary building
4	**Proposed biological treatment plant**
5	**Proposed leachate plant**
5a	Bunded storage
5b	Floating cover lagoons
5c	Tanker loading area
5d	Leachate treatment / conditioning area
6	**Proposed surface water/drainage infrastructure**
6a	Additional surface water attenuation
6b	Surface water outfall
6c	Flood compensation
6d	Surface water holding pond
7	**Earth balance and proposed berms**
7a	Berm phase 1
7b	Berm phase 2
8	**Proposed extent of tree felling cut back**
9	**Relocation of ESB powerline**
10	**Ancillary infrastructure**
10a	Additional ESB substation
10b	Additional ESB substation
10c	Additional drainage
10d	New overhead line

Scale 1:3750 (0m, 38m, 75m, 113m, 150m, 188m, 225m, 263m, 300m, 338m, 375m)

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Rev.	Drawn	Chk'd	App'd	BG	C/C	Date	Description
A	SK	CJC				10.07.18	Issue For Planning Application
						Rev Origin	
Revision History	A						EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED SITE LAYOUT PLAN WITH INFRASTRUCTURE LOCATIONS

Scales Used	This Drawing was printed to
1:3750	A1-

Dwg. No.	Rev.
LW14-821-01-P-0050-005	A

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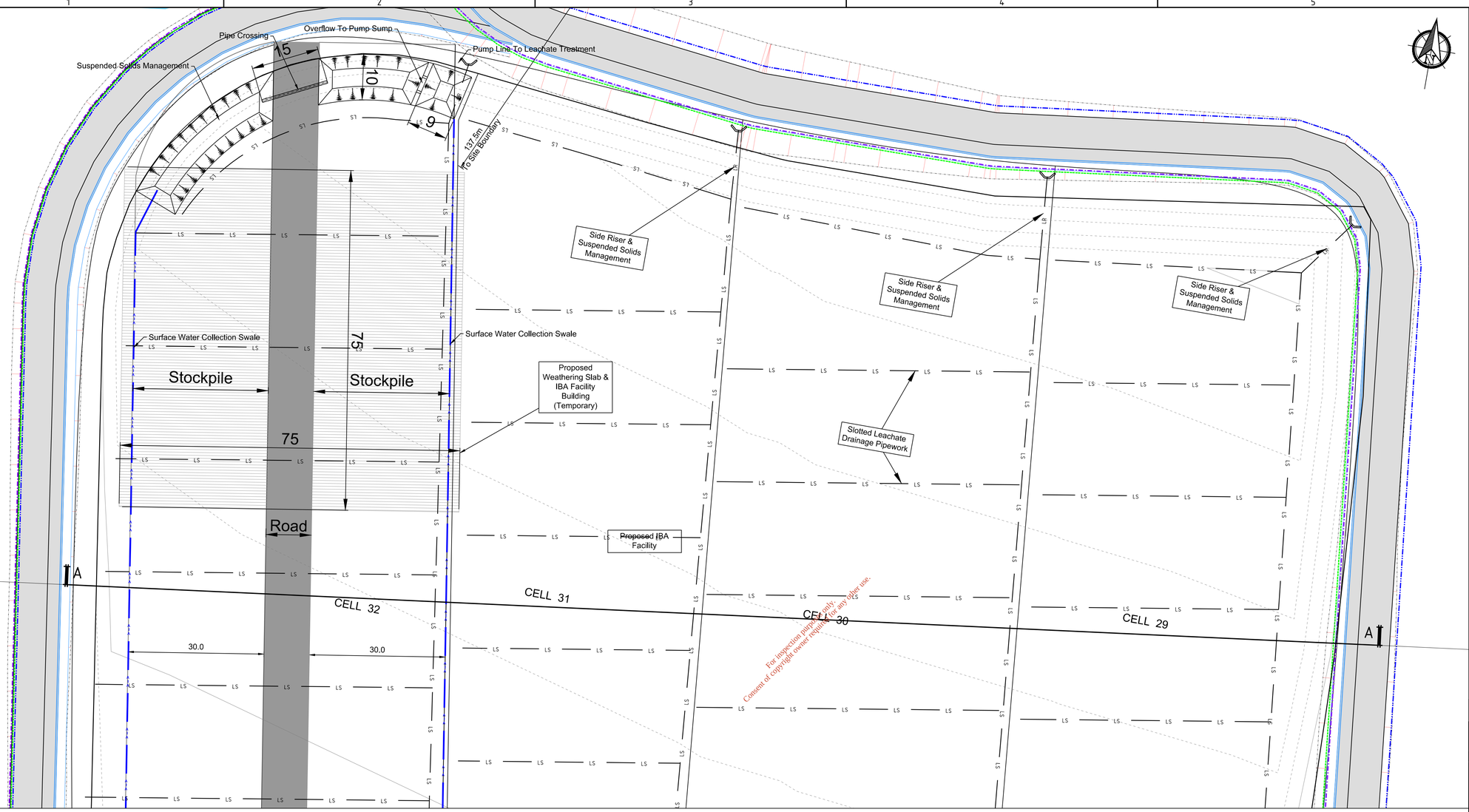
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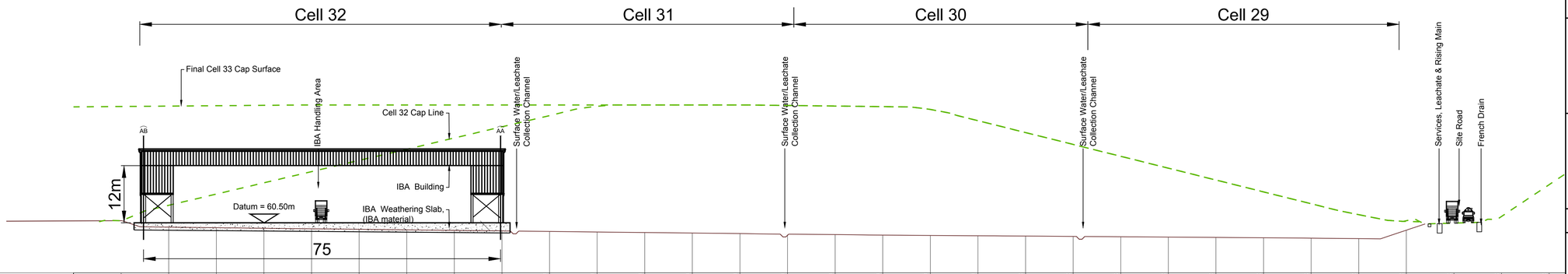
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IBA Cell Floor		59.597	59.469	59.358	59.246	59.135	59.024	58.912	58.801	58.689	58.578	58.466	58.355	58.243	58.111	58.111	58.042	57.924	57.855	57.787	57.716	57.650	57.582	57.508	57.439	57.371	57.282	57.196	56.952	60.938	60.438	61.837	
Proposed Final Profile	84.805	84.887	84.968	85.050	85.131	85.200	85.200	85.200	85.200	85.200	85.200	85.200	85.200	85.200	85.200	85.102	84.980	84.685	84.277	81.909	79.421	76.933	74.445	71.958	69.470	66.982	64.494	62.208	60.938	60.438	61.837	68.505

IBA SECTION A

Scale 1:500

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Legend

Leachate Side Riser & Suspended Solids Management

Leachate Pipework

Rev.	Drawn	Chk'd	App'd		
A		CJC	BG	Cork 10.07.18	Issue For Planning Application
				Rev Origin Date	Description

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED IBA FACILITY BUILDING LOCATION AND CROSS SECTION

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1:500	A1-

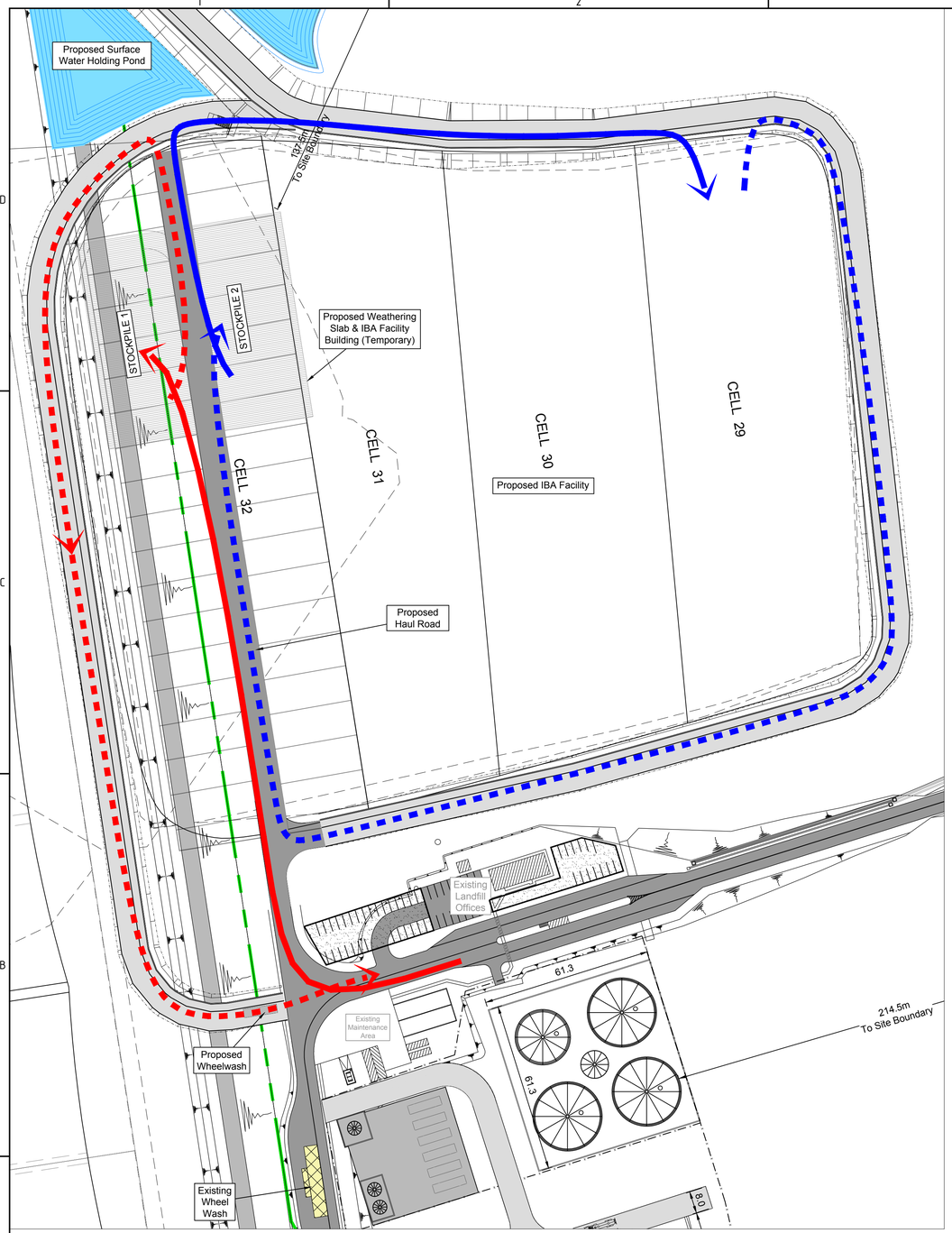
Dwg. No.	Rev.
LW14-821-01-P-0050-006	A

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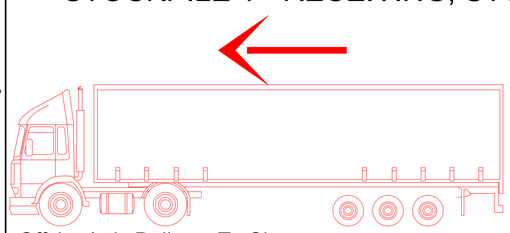
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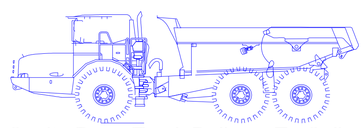
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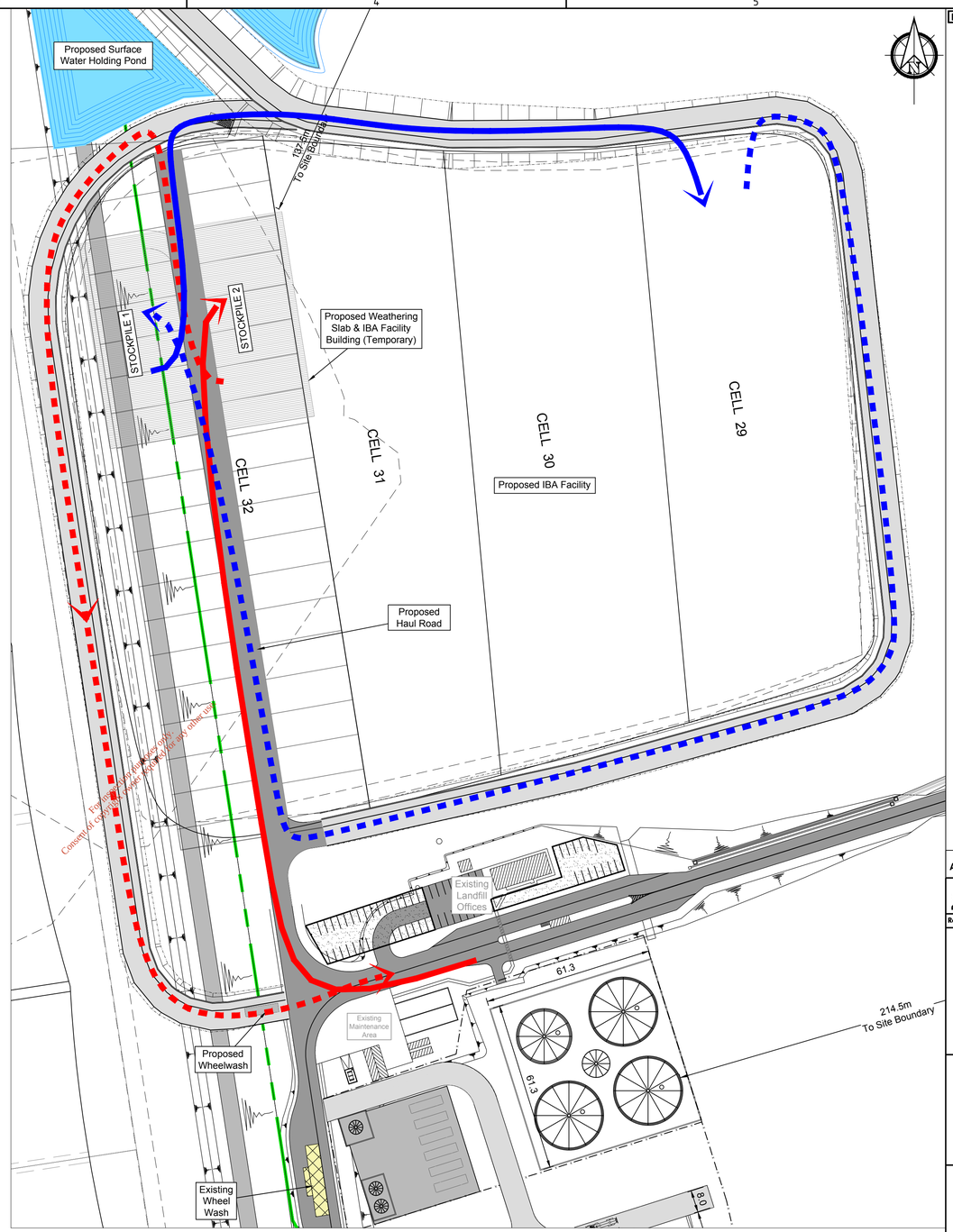
STOCKPILE 1 - RECEIVING, STOCKPILE 2 - TO CELL



Offsite Artic Delivery To Site

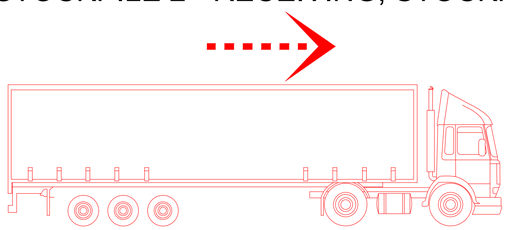


Onsite DumpTruck Delivery To Cell

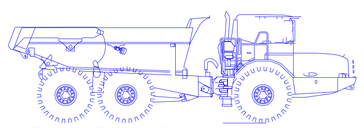


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STOCKPILE 2 - RECEIVING, STOCKPILE 1 - TO CELL



Offsite Artic Leaving Site



Onsite Dump Truck Returning From Cell

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A		CJC	BG	Cork 10.07.18	Issue For Planning Application
				Rev Origin / Date	Description
Revision History	A				EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

TRAFFIC MANAGEMENT IBA FACILITY

Scales Used	This Drawing was printed to
1:1000	A1-

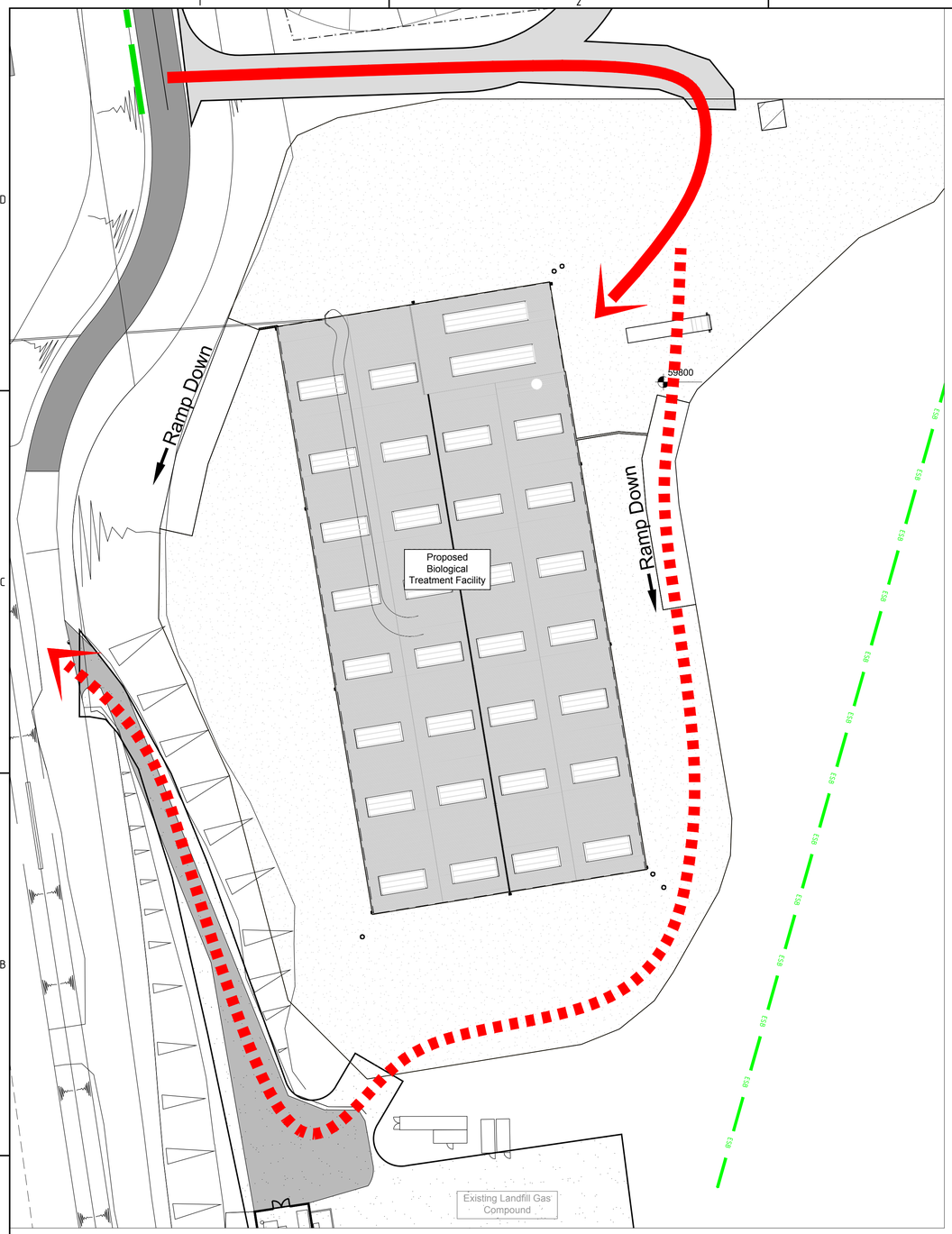
Dwg. No.	Rev.
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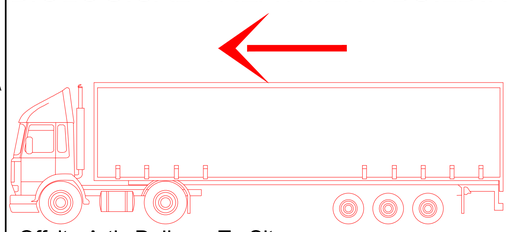
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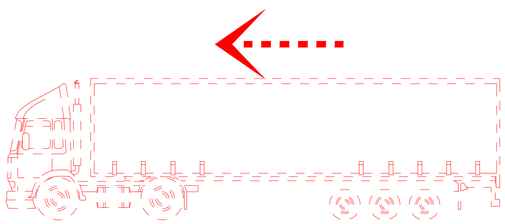
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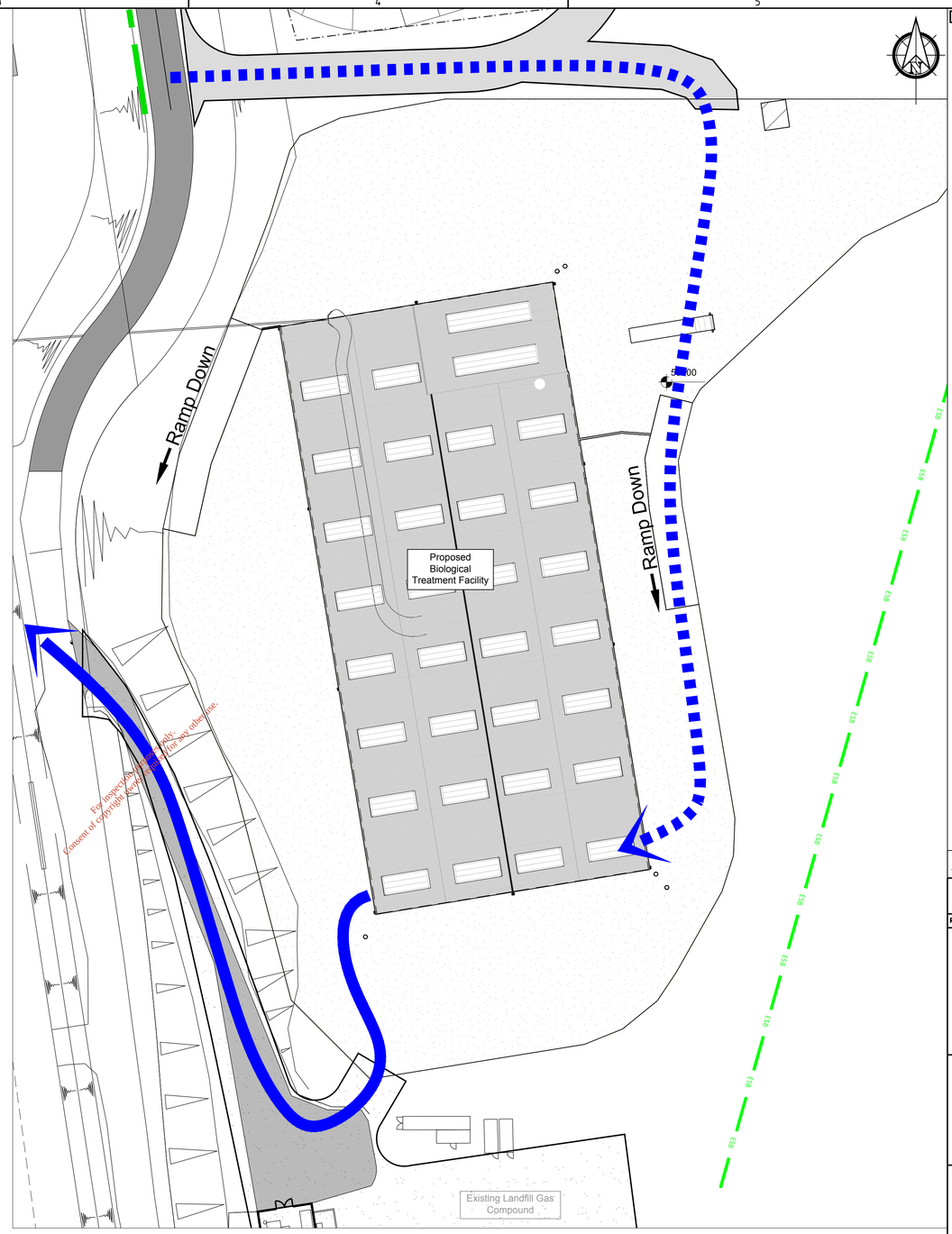
BIOLOGICAL TREATMENT BUILDING RECEIVING WASTE



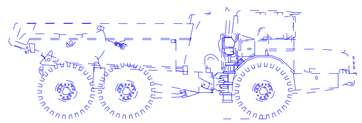
Offsite Artic Delivery To Site



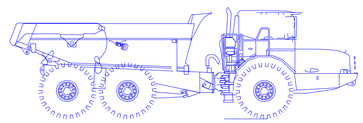
Offsite Artic Leaving To Site



BIOLOGICAL TREATMENT BUILDING TRANSFERING TO CELL



Onsite Dump Truck Returning From Cell Empty



Onsite Dump Truck Returning To Cell Loaded

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Rev.	Drawn	Chk'd	App'd		
A		CJC	BG	Cork 10.07.18	Issue For Planning Application
				Rev Origin / Date	Description

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT
AT KNOCKHARLEY LANDFILL

Title of Drawing

TRAFFIC MANAGEMENT
BIOLOGICAL TREATMENT FACILITY

Scales Used	This Drawing was printed to A1:
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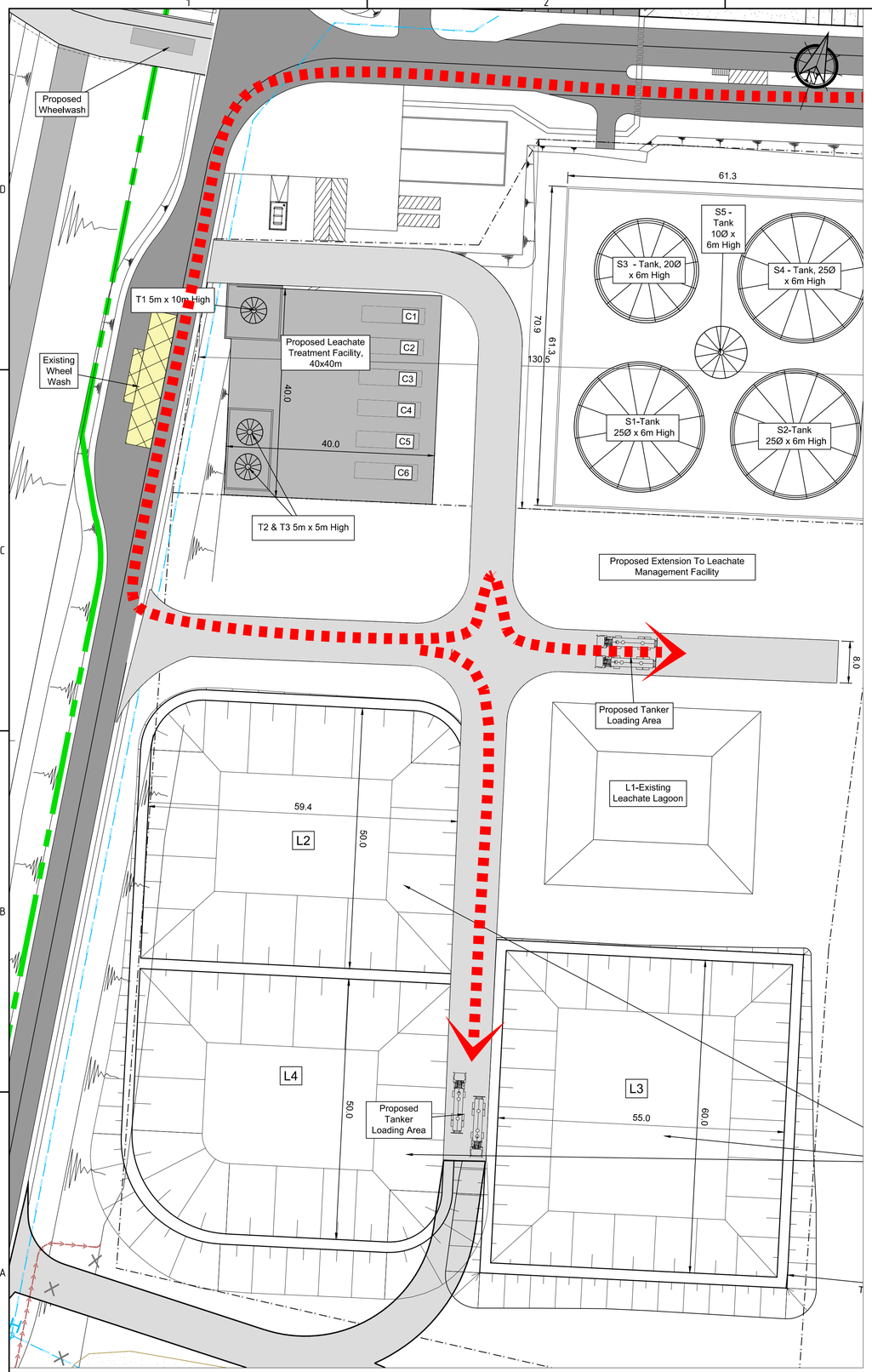
Dwg. No.	Rev.
LW14-821-01-P-0050-008	A

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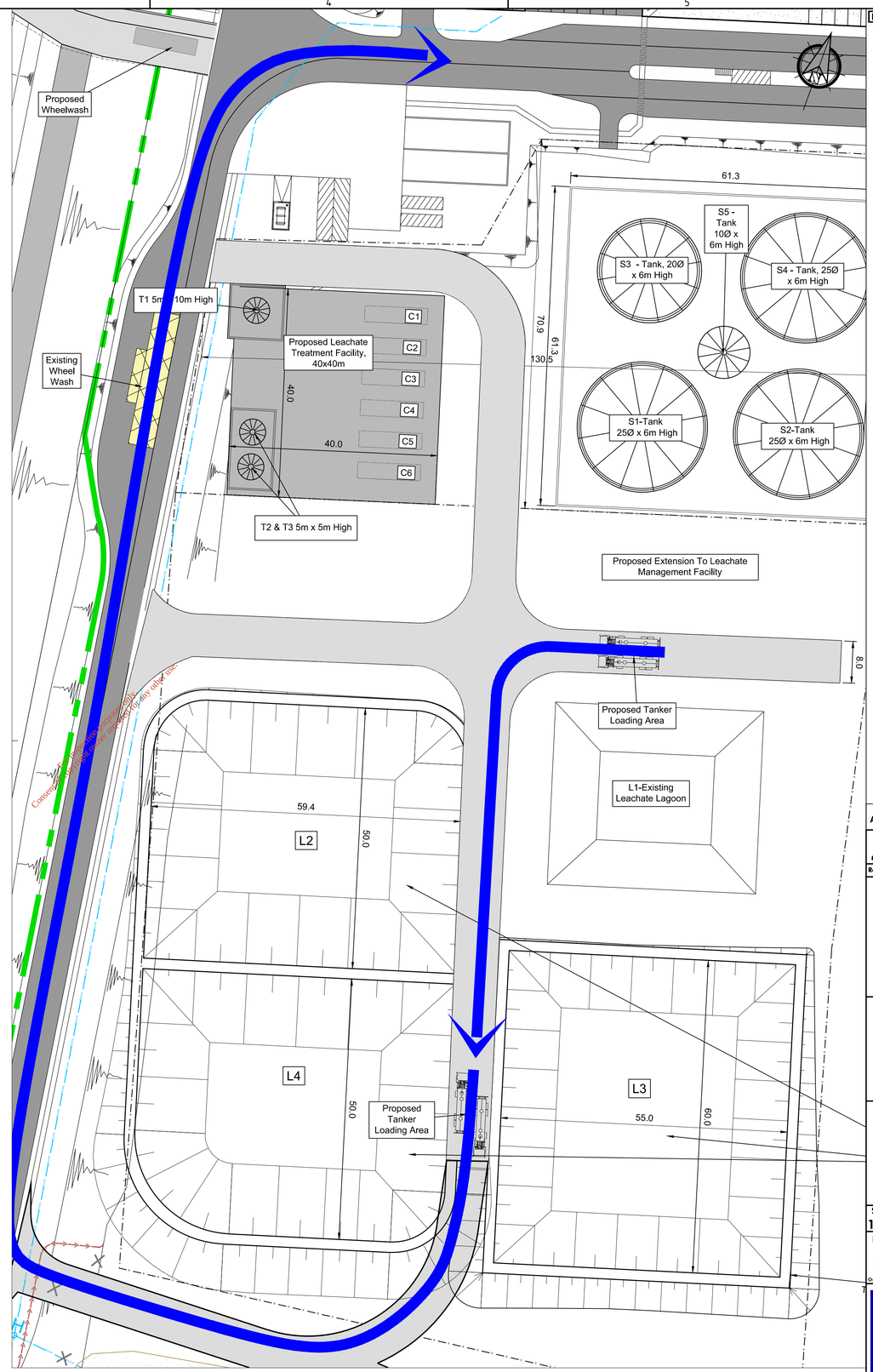
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EMPTY TANKER INTO LEACHATE TREATMENT FACILITY



TANKER OUT OF LEACHATE TREATMENT FACILITY

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Offsite Tanker (Empty) To Site

Offsite Tanker Leaving Site

Rev.	Drawn	Chkd	Appd	Date	Description
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Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

TRAFFIC MANAGEMENT LEACHATE MANAGEMENT FACILITY

Scales Used	This Drawing was printed to
1:500	A1-

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LW14-821-01-P-0050-009	A

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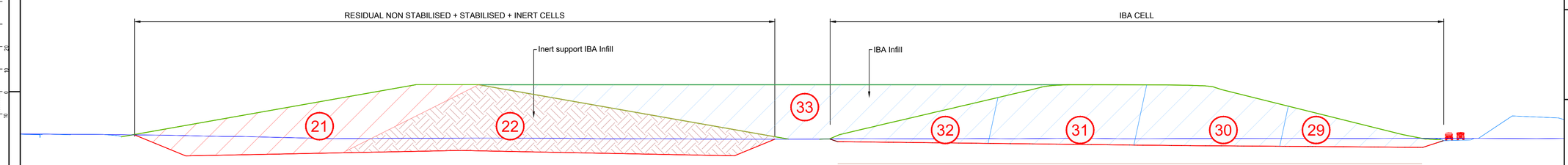
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ORIGINAL DRAWING SIZE A1 - (841 x 594)
SCALE HORIZ.
SCALE - VERTICAL
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SECTION A-A (Scale 1:1000)

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LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary (Refer to dwg P-0000-BDY For Clarity)
- Existing Wayleave
- Ground Contours (90m / 100m)
- Existing Watercourse
- Landfill Cells currently being filled (2017/'18)
- Residual Non Stabilised
- Inert Stabilised
- IBA
- Direction Of Waste Placement
- 29 Cell Number

Rev.	Drawn	Chkd	Appr'd		
A	SK	CJC	BG	Cork 10.07.18	Issue For Planning Application

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED CELL FILLING

Scales Used	This Drawing was printed to
1:2500	A1-

Dwg. No.	Rev.
LW14-821-01-P-0050-010	A

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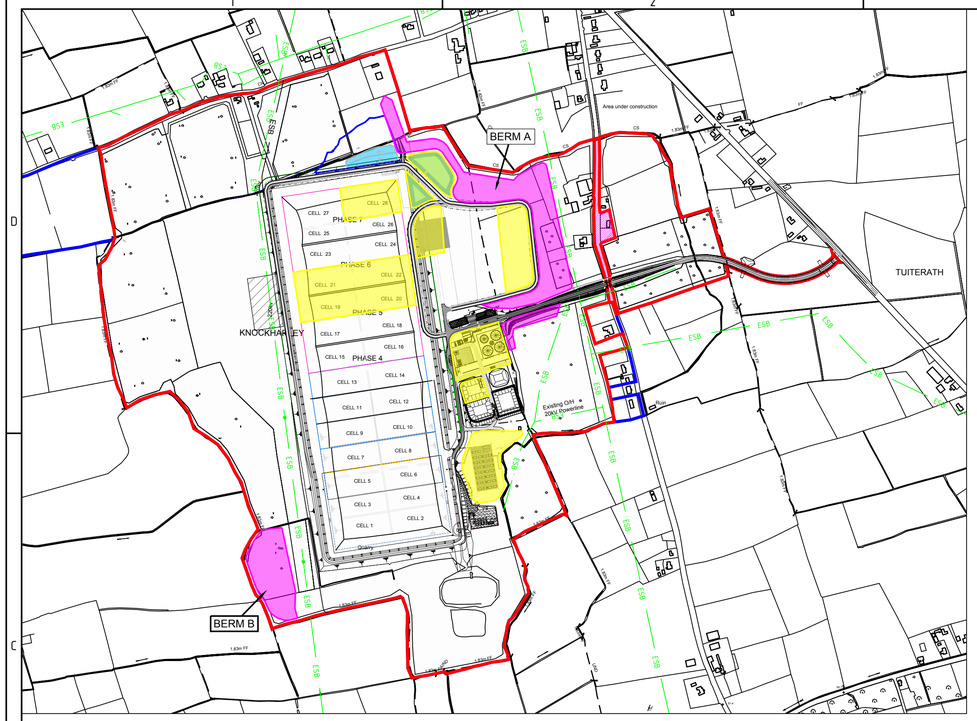
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SCALE HORIZ.
EPA Export 24-10-2019:04:10:15

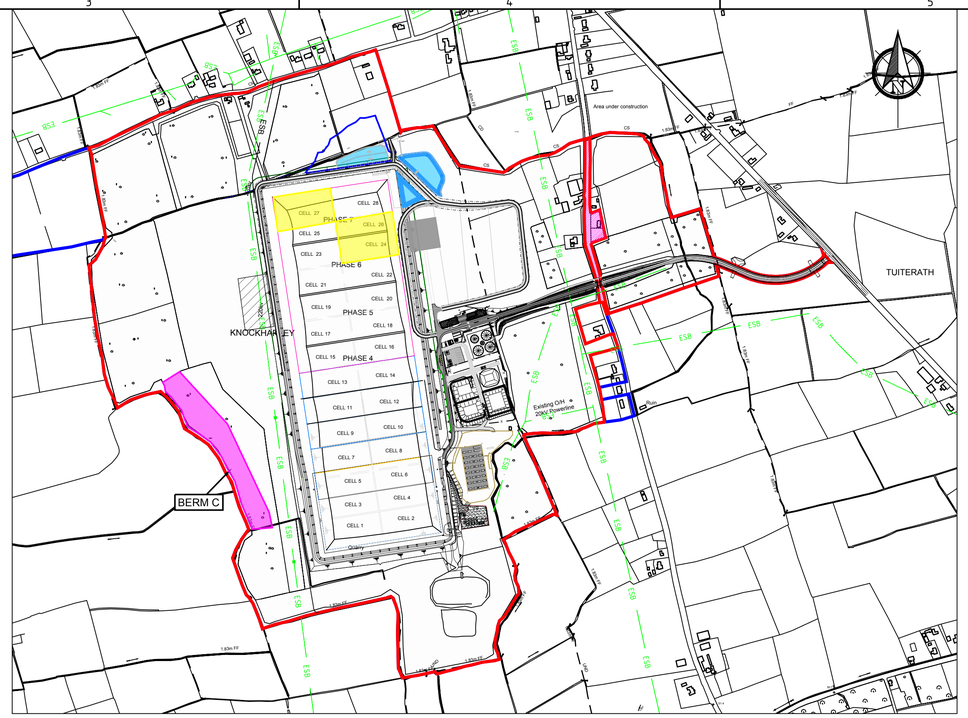
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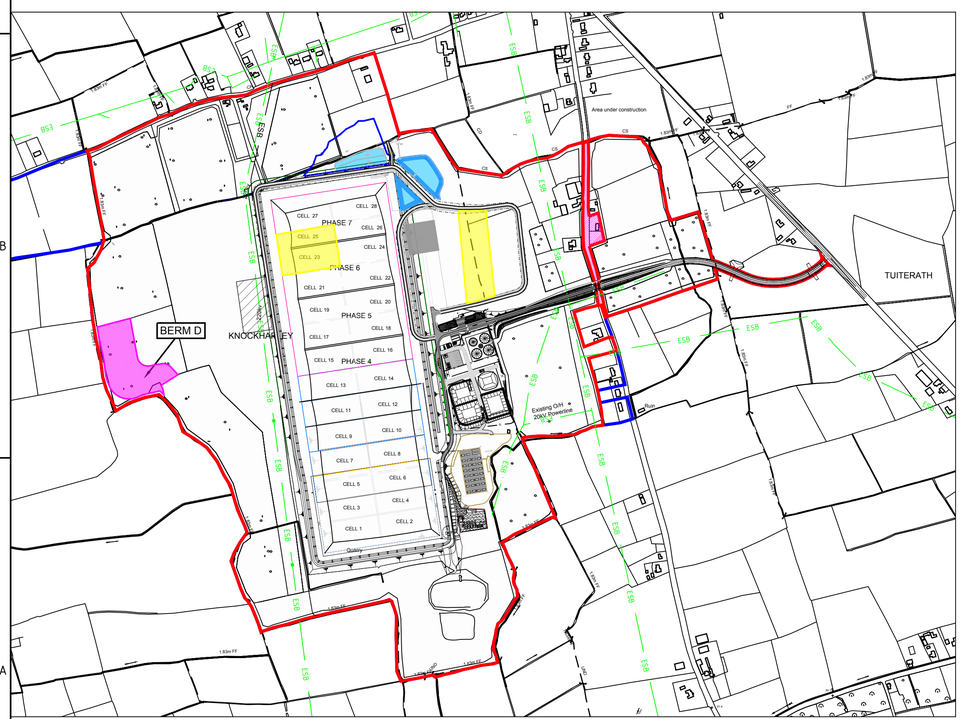
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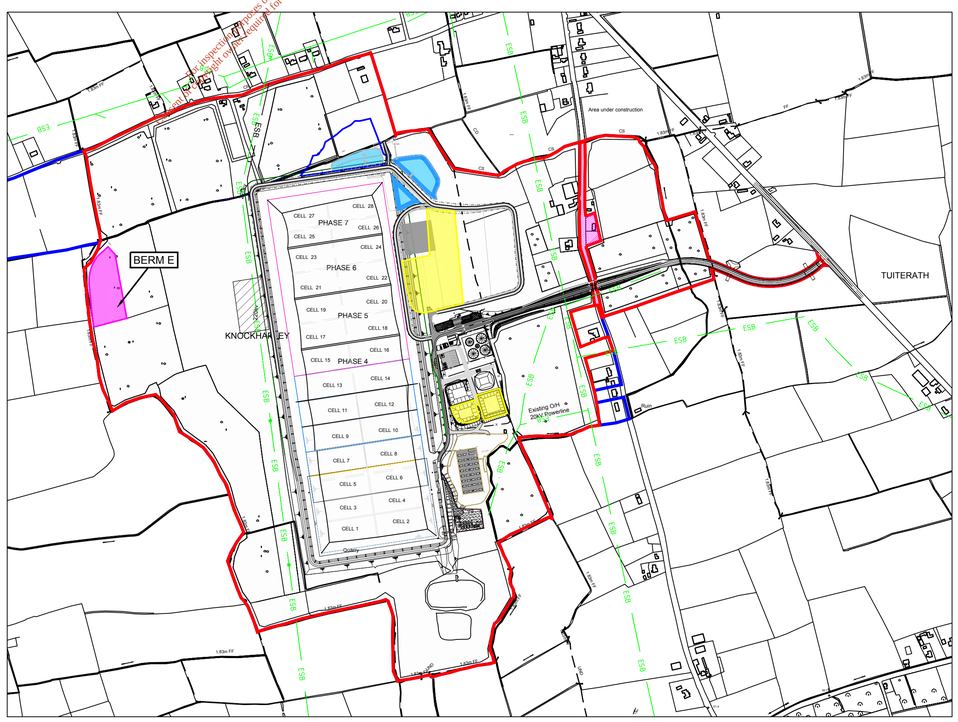
a. CUT - Construction year 0, 1 & 2
b. BERM FILL - Construction year 0, 1 & 2
c. Temporary stockpile area.



a. CUT - Construction year 3 & 4
b. BERM FILL - Construction year 3 & 4
c. Temporary stockpile area.



a. CUT - Construction year 5 & 6
b. BERM FILL - Construction year 5 & 6
c. Temporary stockpile area.



a. CUT - Construction year 7 & 8
b. BERM FILL - Construction year 7 & 8
c. Temporary stockpile area.

	Notes
1	Refer to Chapter 2 Proposed Development - Section Construction Phase Methodology.
2	Refer to Dwg Lw14-821-01-P-0050-003 for Proposed felling and Compensatory Planting Details.
3	Earthwork phasing associated with capping ommited for clarity on Dwg. Capping under prevailing waste license conditions typically requires a cap to be in place 12 months after waste reaches pre-settlment and will be subject to Specified Engineering Submission to Agency.
4	Construction year 0 refers to onging cell works under permitted development. Years 1 + will be subject to grant of permission for proposed development.

0m 75m 150m 225m 300m 375m 450m 525m 600m 675m 750m
Scale 1:7500

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Rev.	Drawn	Chk'd	App'd		
A		CJC	BG	Cork 10.07.18	Issue For Planning Application
Revision History				Rev Origin / Date	Description
A					EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

CUT/FILL PHASING PLAN

Scales Used	This Drawing was printed to
1:7500	A1-

Dwg. No.	Rev.
LW14-821-01-P-0050-011	A

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SCALE - VERTICAL 100 50 20 10 0

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SCALE HORIZ. 10 20 50 100

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Legend:

- Forestry Restoration Planting
- New Forestry Planting
- Proposed Berm
- Planning Boundary

RESTORATION & NEW FORESTRY SPECIES:

Botanical name	Common name	%
Alder	*Alnus glutinosa*	50
Grey Willow	*Salix cinerea*	10
Downy Birch	*Betula pubescens*	10
Pedunculate Oak	*Quercus robur*	10
Hawthorn	*Crataegus monogyna*	5
Holly	*Ilex aquifolium*	5
Hazel	*Corylus avellana*	5
Guelder-rose	*Viburnum opulus*	5

NOTES:

Species mix adheres to Native Woodland Establishment GPC10; Scenaro 4 Gleys/Alder-Oak-Ash Woodland (Department of Agriculture, Food and the Marine) and has been selected with both site soil conditions and biodiversity in mind. Mix Subject to Prevailing Site Conditions.

The planting, ground preparation, and vegetation management will adhere to *Native Woodland Establishment GPC9 & GPC10 Silviculture Standards (Department of Agriculture, Food and the Marine, September 2015)*.

All Planting Will be Disease Free & Native or of Local Provenance.

Planting Subject to Forest Service Licensing

Rev.	Drawn	Chk'd	App'd		
A	SK	CJC	BG	Cork	Issue For Planning Application
				10.07.18	
				Rev Origin	Description
				Date	

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT
AT KNOCKHARLEY LANDFILL

Title of Drawing

LANDSCAPE PLAN

Scales Used	This Drawing was printed to
1:5000	A1-

Dwg. No.	Rev.
LW14-821-01-P-0050-012	A

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0m 50m 100m 150m 200m 250m 300m 350m 400m 450m 500m
Scale 1:5000

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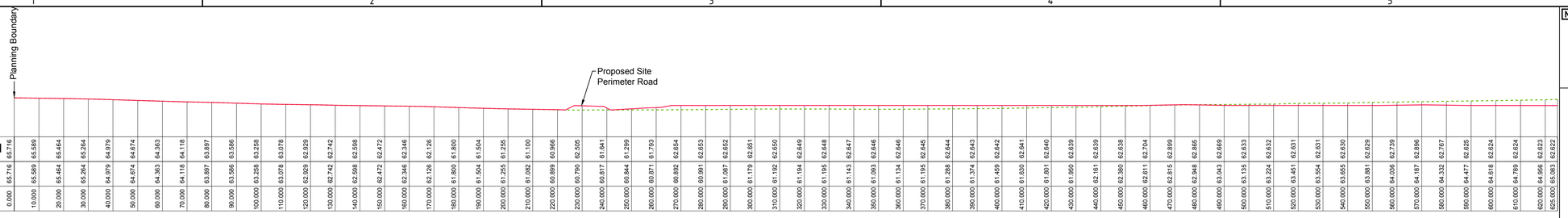
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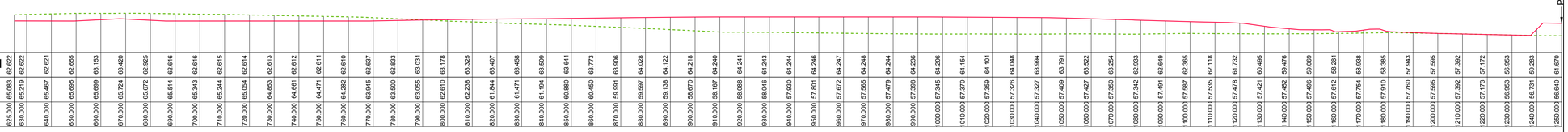
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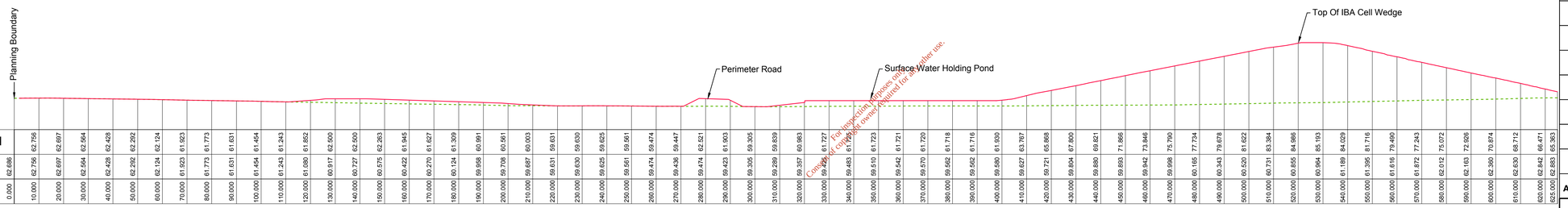
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Existing Ground Level	65.716	65.589	65.464	65.284	64.979	64.674	64.363	64.118	63.897	63.586	63.258	63.078	62.929	62.742	62.598	62.472	62.346	62.126	61.800	61.504	61.255	61.100	60.966	62.505	61.641	61.299	61.793	62.654	62.653	62.652	62.651	62.650	62.649	62.648	62.647	62.646	62.646	62.645	62.644	62.643	62.642	62.641	62.640	62.639	62.639	62.638	62.704	62.899	62.865	62.669	62.633	62.632	62.631	62.631	62.630	62.629	62.739	62.896	62.767	62.625	62.624	62.624	62.623	62.622
Proposed Ground Level	65.716	65.589	65.464	65.284	64.979	64.674	64.363	64.118	63.897	63.586	63.258	63.078	62.929	62.742	62.598	62.472	62.346	62.126	61.800	61.504	61.255	61.082	60.899	60.790	60.617	60.844	60.671	60.892	60.991	61.087	61.179	61.192	61.194	61.195	61.143	61.093	61.134	61.195	61.288	61.374	61.459	61.630	61.801	61.950	62.161	62.360	62.611	62.815	62.948	63.043	63.135	63.224	63.451	63.554	63.655	63.881	64.038	64.187	64.332	64.477	64.618	64.789	64.956	65.083	65.222
Chainage	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000	300.000	310.000	320.000	330.000	340.000	350.000	360.000	370.000	380.000	390.000	400.000	410.000	420.000	430.000	440.000	450.000	460.000	470.000	480.000	490.000	500.000	510.000	520.000	530.000	540.000	550.000	560.000	570.000	580.000	590.000	600.000	610.000	620.000	625.000

SECTION A(0 to 625m)



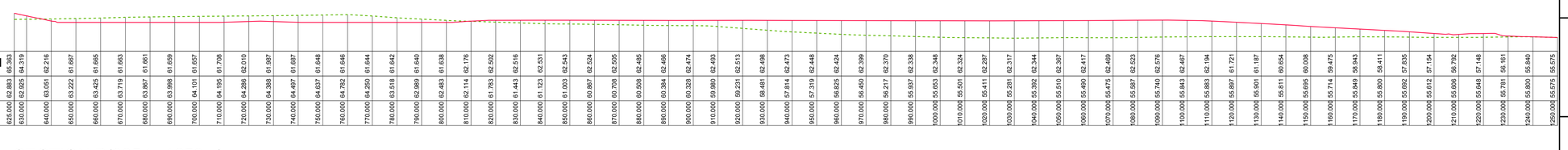
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Existing Ground Level	65.083	65.219	65.467	65.605	65.699	65.724	65.672	65.514	65.343	65.244	65.054	64.853	64.661	64.471	64.282	63.945	63.500	63.055	62.610	62.238	61.844	61.471	61.194	60.880	60.450	59.991	59.697	59.138	58.670	58.167	58.088	58.046	57.930	57.801	57.672	57.565	57.479	57.398	57.345	57.370	57.359	57.226	57.327	57.409	57.427	57.350	57.342	57.491	57.587	57.535	57.478	57.421	57.452	57.496	57.612	57.754	57.910	57.760	57.595	57.392	57.173	56.953	56.731	56.510
Proposed Ground Level	62.622	62.622	62.621	62.605	63.153	63.420	62.925	62.616	62.616	62.615	62.614	62.613	62.612	62.611	62.610	62.637	62.833	63.031	63.178	63.325	63.407	63.458	63.509	63.641	63.773	63.906	64.028	64.122	64.218	64.240	64.241	64.243	64.244	64.246	64.247	64.248	64.244	64.236	64.206	64.154	64.101	64.048	63.994	63.791	63.522	63.254	62.933	62.649	62.365	62.118	61.732	60.496	59.476	59.069	58.281	58.938	58.385	57.943	57.595	57.392	57.172	56.953	56.731	56.510
Chainage	625.000	630.000	640.000	650.000	660.000	670.000	680.000	690.000	700.000	710.000	720.000	730.000	740.000	750.000	760.000	770.000	780.000	790.000	800.000	810.000	820.000	830.000	840.000	850.000	860.000	870.000	880.000	890.000	900.000	910.000	920.000	930.000	940.000	950.000	960.000	970.000	980.000	990.000	1000.000	1010.000	1020.000	1030.000	1040.000	1050.000	1060.000	1070.000	1080.000	1090.000	1100.000	1110.000	1120.000	1130.000	1140.000	1150.000	1160.000	1170.000	1180.000	1190.000	1200.000	1210.000	1220.000	1230.000	1240.000	1250.000

SECTION A(625 to 1250m)



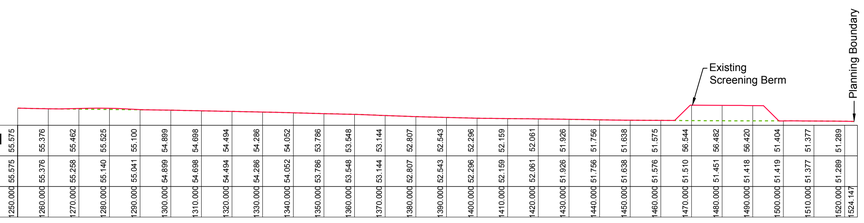
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Existing Ground Level	62.686	62.756	62.697	62.564	62.428	62.292	62.124	61.923	61.773	61.631	61.454	61.243	61.080	60.917	60.727	60.575	60.422	60.270	60.124	59.988	59.708	59.687	59.631	59.630	59.625	59.561	59.474	59.436	59.474	59.423	59.305	59.289	59.357	59.483	59.510	59.542	59.570	59.562	59.562	59.580	59.627	59.721	59.804	59.880	59.883	59.942	59.998	60.165	60.343	60.520	60.731	60.855	60.964	61.189	61.395	61.616	61.872	62.012	62.163	62.360	62.830	62.842	62.883
Proposed Ground Level	62.686	62.756	62.697	62.564	62.428	62.292	62.124	61.923	61.773	61.631	61.454	61.243	61.080	60.917	60.727	60.575	60.422	60.270	60.124	59.988	59.708	59.687	59.631	59.630	59.625	59.561	59.474	59.436	59.474	59.423	59.305	59.289	59.357	59.483	59.510	59.542	59.570	59.562	59.562	59.580	59.627	59.721	59.804	59.880	59.883	59.942	59.998	60.165	60.343	60.520	60.731	60.855	60.964	61.189	61.395	61.616	61.872	62.012	62.163	62.360	62.830	62.842	62.883
Chainage	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000	300.000	310.000	320.000	330.000	340.000	350.000	360.000	370.000	380.000	390.000	400.000	410.000	420.000	430.000	440.000	450.000	460.000	470.000	480.000	490.000	500.000	510.000	520.000	530.000	540.000	550.000	560.000	570.000	580.000	590.000	600.000	610.000	620.000	625.000

SECTION B(0 to 625m)



Chainage	625.000	630.000	640.000	650.000	660.000	670.000	680.000	690.000	700.000	710.000	720.000	730.000	740.000	750.000	760.000	770.000	780.000	790.000	800.000	810.000	820.000	830.000	840.000	850.000	860.000	870.000	880.000	890.000	900.000	910.000	920.000	930.000	940.000	950.000	960.000	970.000	980.000	990.000	1000.000	1010.000	1020.000	1030.000	1040.000	1050.000	1060.000	1070.000	1080.000	1090.000	1100.000	1110.000	1120.000	1130.000	1140.000	1150.000	1160.000	1170.000	1180.000	1190.000	1200.000	1210.000	1220.000	1230.000	1240.000	1250.000
Existing Ground Level	62.883	64.319	63.051	63.222	63.425	63.719	63.867	63.968	64.101	64.195	64.286	64.388	64.497	64.637	64.762	64.290	63.518	62.989	62.483	62.114	61.783	61.443	61.123	61.003	60.867	60.708	60.508	60.384	60.328	59.980	59.231	58.481	57.814	57.319	56.825	56.450	56.217	55.937	55.853	55.501	55.411	55.281	55.392	55.510	55.490	55.475	55.587	55.740	55.843	55.883	55.897	55.901	55.811	55.695	55.714	55.849	55.800	55.692	55.612	55.606	55.648	55.781	55.800	55.575
Proposed Ground Level	66.363	64.319	62.216	61.667	61.665	61.663	61.661	61.659	61.657	61.706	62.010	61.987	61.687	61.648	61.646	61.644	61.642	61.640	61.638	62.176	62.502	62.516	62.531	62.543	62.524	62.505	62.485	62.466	62.474	62.493	62.513	62.498	62.473	62.448	62.424	62.399	62.370	62.338	62.348	62.324	62.287	62.317	62.344	62.367	62.417	62.469	62.523	62.576	62.467	62.194	61.721	61.187	60.654	60.008	59.475	58.943	58.411	57.835	57.154	56.792	57.148	56.161	56.840	55.575
Chainage	625.000	630.000	640.000	650.000	660.000	670.000	680.000	690.000	700.000	710.000	720.000	730.000	740.000	750.000	760.000	770.000	780.000	790.000	800.000	810.000	820.000	830.000	840.000	850.000	860.000	870.000	880.000	890.000	900.000	910.000	920.000	930.000	940.000	950.000	960.000	970.000	980.000	990.000	1000.000	1010.000	1020.000	1030.000	1040.000	1050.000	1060.000	1070.000	1080.000	1090.000	1100.000	1110.000	1120.000	1130.000	1140.000	1150.000	1160.000	1170.000	1180.000	1190.000	1200.000	1210.000	1220.000	1230.000	1240.000	1250.000

SECTION B(625 to 1250m)



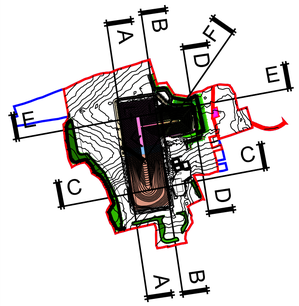
Chainage	1200.000	1200.000	1270.000	1280.000	1290.000	1300.000	1310.000	1320.000	1330.000	1340.000	1350.000	1360.000	1370.000	1380.000	1390.000	1400.000	1410.000	1420.000	1430.000	1440.000	1450.000	1460.000	1470.000	1480.000	1490.000	1500.000	1510.000	1520.000	1524.147
Existing Ground Level	55.575	55.376	55.462	55.625	55.100	54.899	54.698	54.494	54.286	54.052	53.786	53.548	53.144	52.807	52.543	52.296	52.159	52.061	51.926	51.756	51.638	51.575	56.544	56.462	56.420	51.404	51.377	51.289	51.289
Proposed Ground Level	55.575	55.376	55.258	55.140	55.041	54.899	54.698	54.494	54.286	54.052	53.786	53.548	53.144	52.807	52.543	52.296	52.159	52.061	51.926	51.756	51.638	51.575	51.510	51.451	51.418	51.419	51.377	51.289	51.289
Chainage	1200.000	1200.000	1270.000	1280.000	1290.000	1300.000	1310.000	1320.000	1330.000	1340.000	1350.000	1360.000	1370.000	1380.000	1390.000	1400.000	1410.000	1420.000	1430.000	1440.000	1450.000	1460.000	1470.000	1480.000	1490.000	1500.000	1510.000	1520.000	1524.147

SECTION B(1250 to 1524m)

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Legend

Profile

- Existing Ground Line
- Proposed Finished Ground

Rev.	Drawn	Chk'd	App'd	Rev Origin	Description
A	SK	C/C	BG	Cork 10.07.18	Issue For Planning Application

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED SITE CROSS SECTIONS

SHEET 1 OF 3

Scales Used	This Drawing was printed to
1:1000	A1-

Dwg. No.	Rev.
LW14-821-01-P-0103-001	A

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Scale 1:1000

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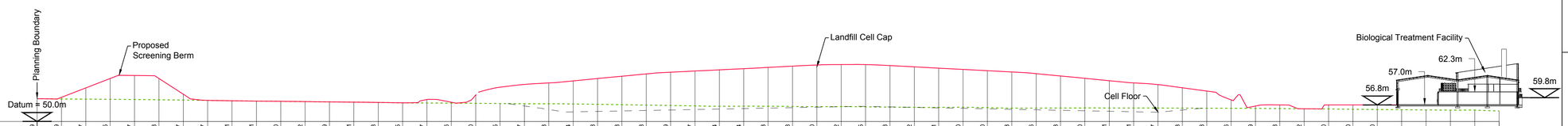
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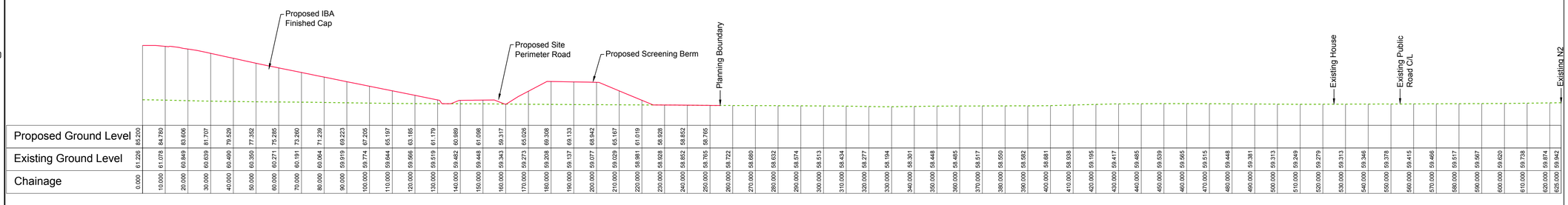
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Sheet FTC-A1-2015 rev. A (template filed in O:\Acad\Templates\Autocad) (Dec 2015) - template externally referenced

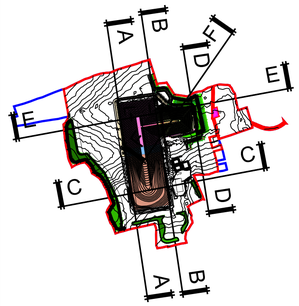


Chainage	Existing Ground Level	Proposed Ground Level
0.000	61.226	65.200
10.000	61.078	64.780
20.000	60.849	63.606
30.000	60.639	61.707
40.000	60.490	79.529
50.000	60.350	77.302
60.000	60.271	75.285
70.000	60.191	73.260
80.000	60.064	71.239
90.000	59.919	69.223
100.000	59.774	67.205
110.000	59.644	65.197
120.000	59.566	63.185
130.000	59.519	61.179
140.000	59.482	60.989
150.000	59.448	61.098
160.000	59.343	59.317
170.000	59.273	65.026
180.000	59.208	69.308
190.000	59.137	69.133
200.000	59.077	68.942
210.000	59.029	65.167
220.000	58.981	61.019
230.000	58.928	58.928
240.000	58.852	58.852
250.000	58.765	58.765
260.000	58.722	
270.000	58.680	
280.000	58.632	
290.000	58.574	
300.000	58.513	
310.000	58.434	
320.000	58.277	
330.000	58.194	
340.000	58.301	
350.000	58.448	
360.000	58.485	
370.000	58.517	
380.000	58.550	
390.000	58.582	
400.000	58.681	
410.000	58.938	
420.000	59.195	
430.000	59.417	
440.000	59.485	
450.000	59.539	
460.000	59.965	
470.000	59.515	
480.000	59.448	
490.000	59.381	
500.000	59.313	
510.000	59.249	
520.000	59.279	
530.000	59.313	
540.000	59.346	
550.000	59.378	
560.000	59.415	
570.000	59.466	
580.000	59.517	
590.000	59.567	
600.000	59.620	
610.000	59.738	
620.000	59.874	
625.000	59.942	

SECTION F(0 to 625m)

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Legend

Profile

- Existing Ground Line
- Proposed Finished Ground

Rev.	Drawn	Chk'd	App'd		
A	SK	CJC	BG	Cork 10.07.18	Issue For Planning Application
				Rev Origin / Date	Description

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT
AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED SITE CROSS SECTIONS
SHEET 3 OF 3

Scales Used	This Drawing was printed to
1:1000	A1-

Dwg. No.	Rev.
LW14-821-01-P-0103-003	A

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0m 10m 20m 30m 40m 50m 60m 70m 80m 90m 100m
Scale 1:1000

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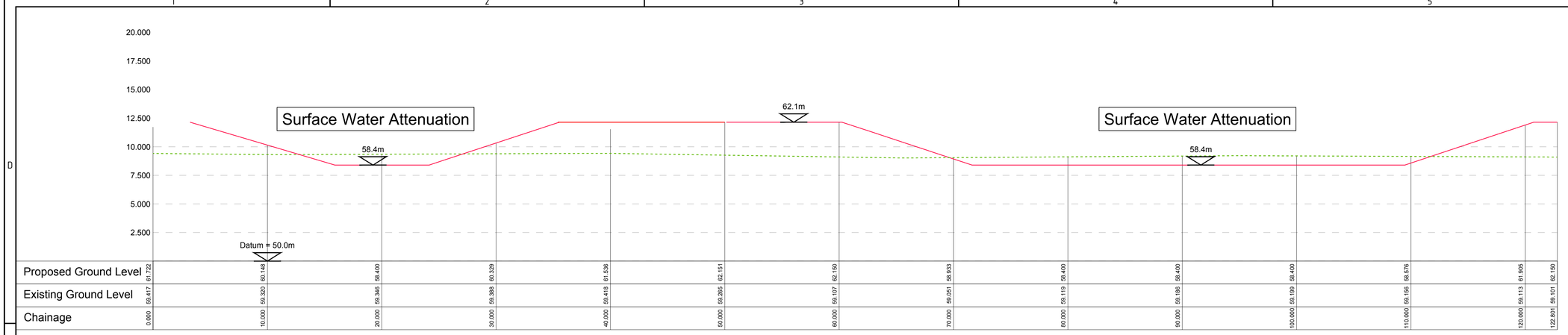
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ORIGINAL DRAWING SIZE A1 - (841 x 594)

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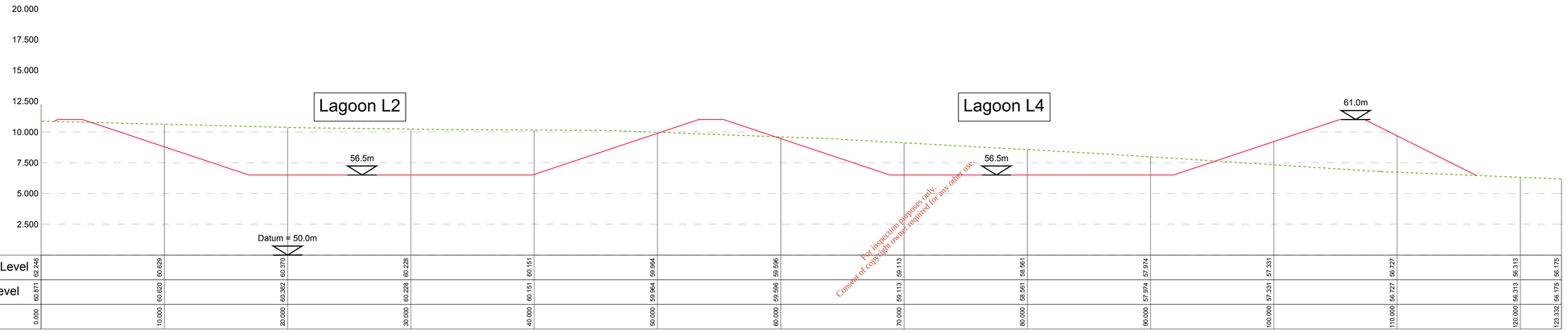
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Sheet FTC-A1-2015 rev. A (template filed in O:\Acad\Templates\Autocad) (Dec 2015) - template externally referenced



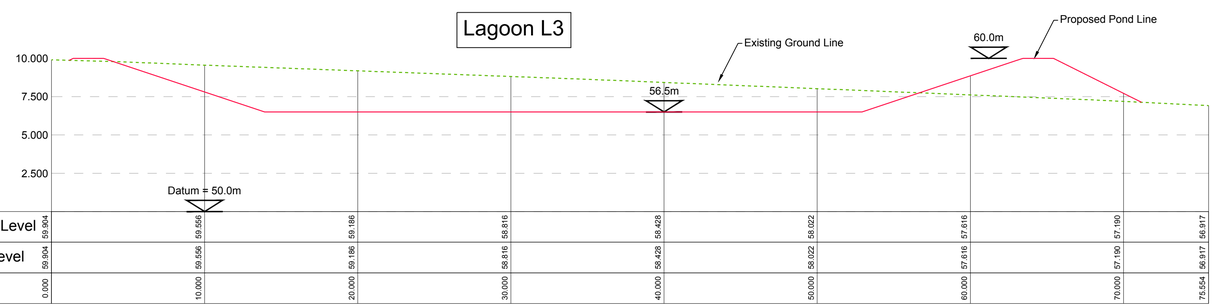
Proposed Ground Level	61.722	60.148	59.400	60.329	61.536	62.151	62.150	58.933	58.400	58.400	58.400	58.576	61.905	62.150
Existing Ground Level	59.417	59.320	59.346	59.388	59.418	59.265	59.107	59.051	59.119	59.186	59.199	59.156	59.113	59.101
Chainage	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	122.801

SECTION P1(0 to 123m)



Proposed Ground Level	62.248	60.629	60.370	60.228	60.151	59.964	59.596	59.113	58.561	57.974	57.331	56.727	56.313	56.175
Existing Ground Level	60.871	60.620	60.362	60.228	60.151	59.964	59.596	59.113	58.561	57.974	57.331	56.727	56.313	56.175
Chainage	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	123.332

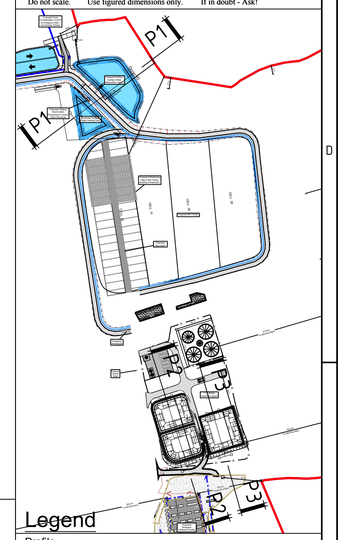
SECTION P2(0 to 123m)



Proposed Ground Level	59.904	59.556	59.186	58.816	58.428	58.022	57.616	57.190	56.917
Existing Ground Level	59.904	59.556	59.186	58.816	58.428	58.022	57.616	57.190	56.917
Chainage	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	75.554

SECTION P3(0 to 76m)

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Legend

Profile

Existing Ground Line

Proposed Finished Ground

Rev.	Drawn	Chk'd	App'd		
A	SK	CJC	BG	Cork 10.07.18	Issue For Planning Application
				Rev Origin	Description
				Date	

Revision History A EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing

PROPOSED CROSS SECTIONS OF POND AND LEACHATE LAGOONS

Scales Used	This Drawing was printed to
1:200	A1-

Dwg. No.	Rev.
LW14-821-01-P-0103-004	A

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Scale 1:200

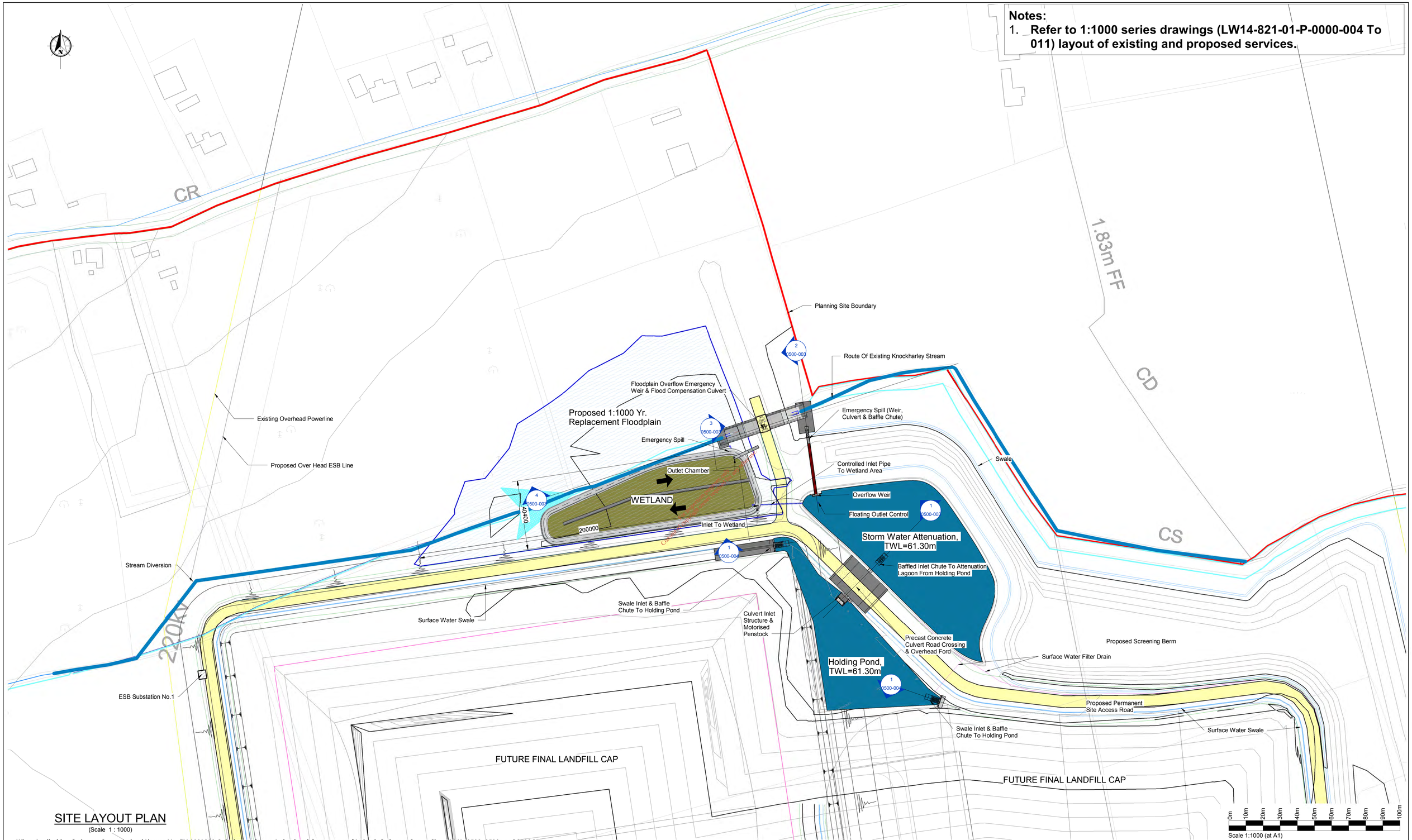
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ORIGINAL DRAWING SIZE A1 - (841 x 594)
SCALE HORIZ.
SCALE - VERTICAL
EPA Export 28-09-2018:04:19:15

Notes:

1. **Refer to 1:1000 series drawings (LW14-821-01-P-0000-004 To 011) layout of existing and proposed services.**



SITE LAYOUT PLAN

(Scale 1 : 1000)

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Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
0500		PLANNING	EIAR

PROJECT

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT

KNOCKHARLEY LANDFILL Ltd.

SHEET

PROPOSED LAYOUT PLAN OF SURFACE WATER MANAGEMENT INFRASTRUCURE

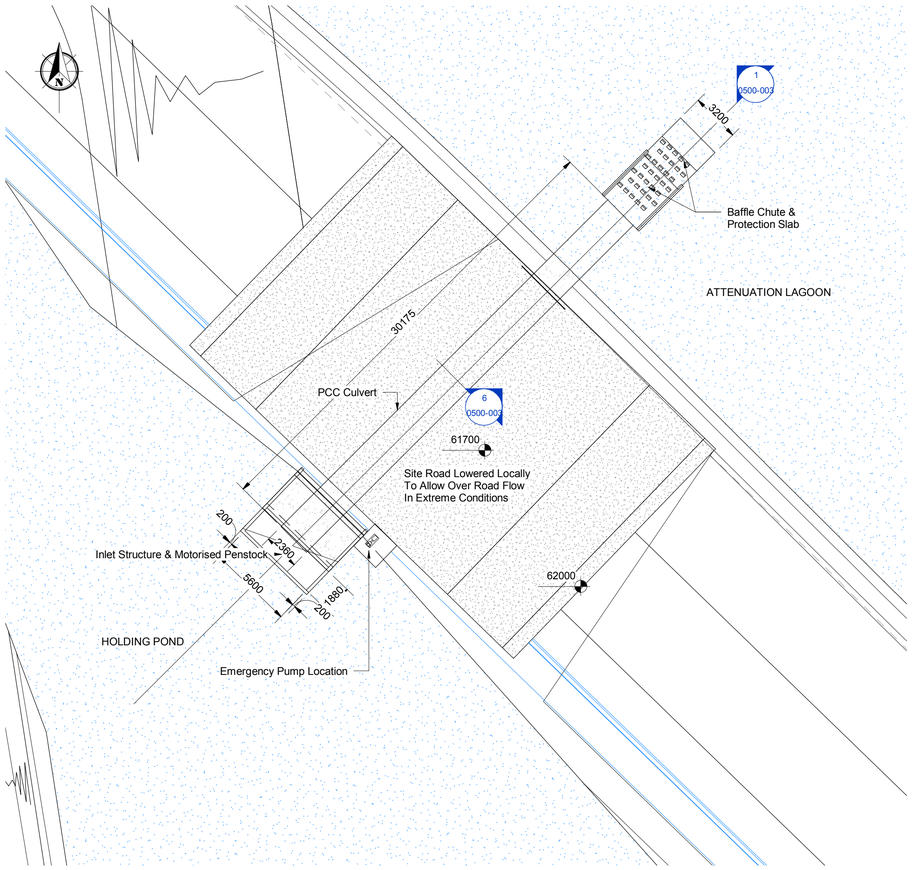
Date	Project number	Scale (@ A1)
09/11/17	LW14-821-01	As indicated
Drawn by SK	**Drawing Number** LW14-821-01-P-0500-001	**Rev** A
Checked by CJC		

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Drawing printed: 13/07/2018 12:15:45

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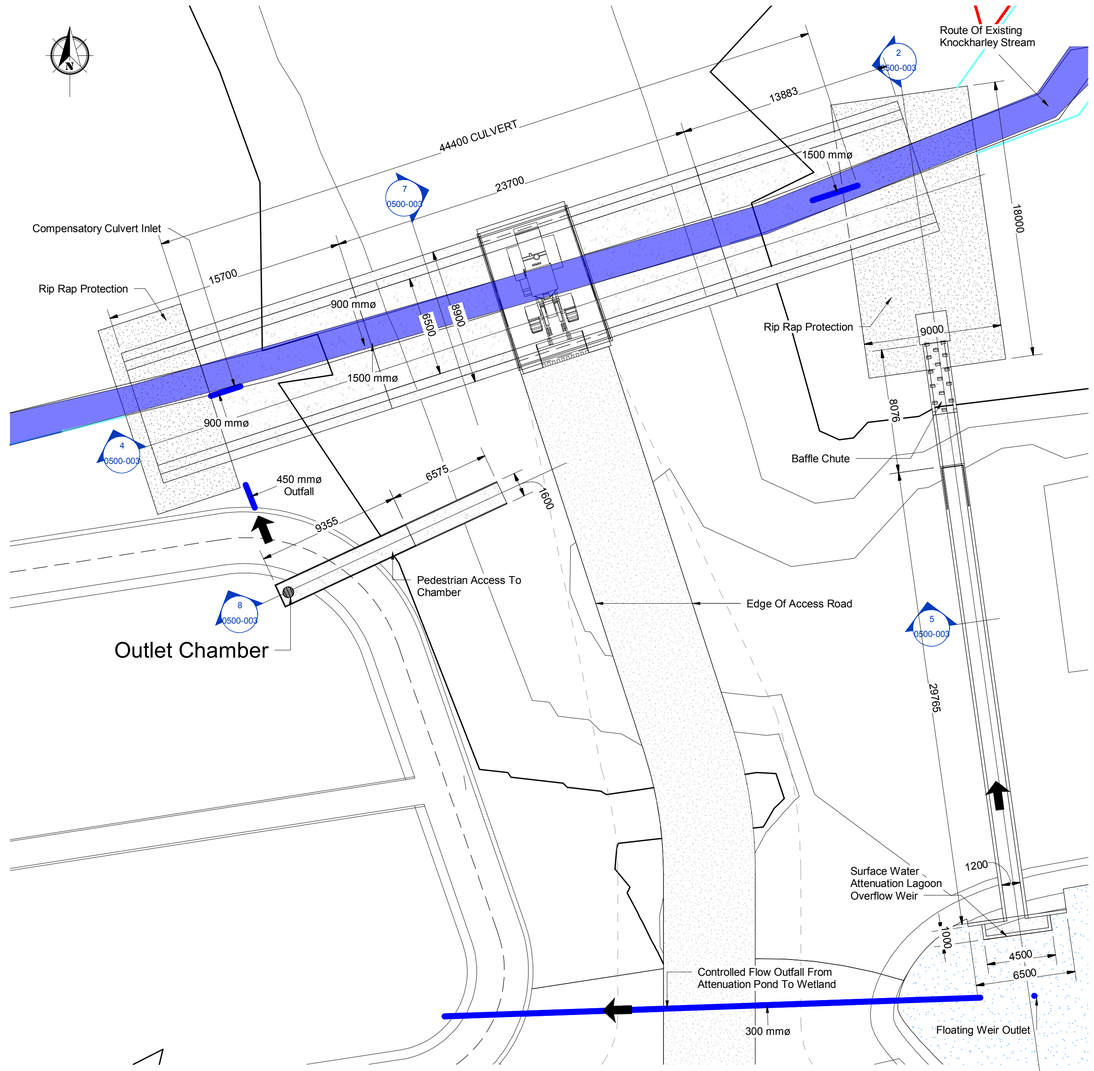
Notes:
1. **Refer to 1:1000 series drawings (LW14-821-01-P-0000-004 To 011) layout of existing and proposed services.**



1/200 LAYOUT PLAN OF ATTENUATION INLET STRUCTURE

(Scale 1 : 200)

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1/200 LAYOUT PLAN OF FLOODPLAIN OVERFLOW WEIR AND ATTENUATION POND OVERFLOW

(Scale 1 : 200)

0m 2m 4m 6m 8m 10m 12m 14m 16m 18m 20m

Scale 1:200 (at A1)

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Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
0500		PLANNING	EIAR

PROJECT
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT
KNOCKHARLEY LANDFILL Ltd.

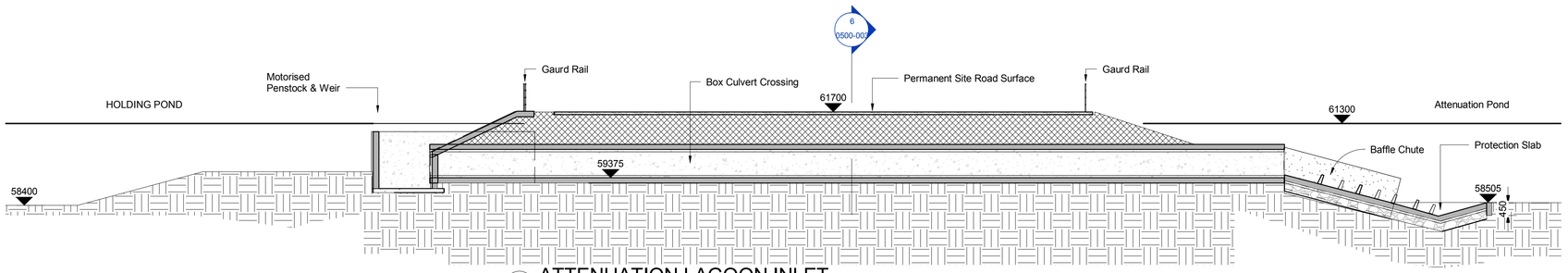
SHEET
SURFACE WATER MANAGEMENT INFRASTRUCTURE LAYOUT PLANS

Date	Project number	Scale (@ A1)
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Drawn by SK	**Drawing Number**	**Rev**
Checked by CJC	LW14-821-01-P-0500-002	A

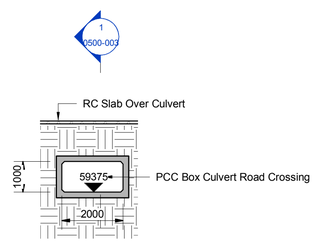
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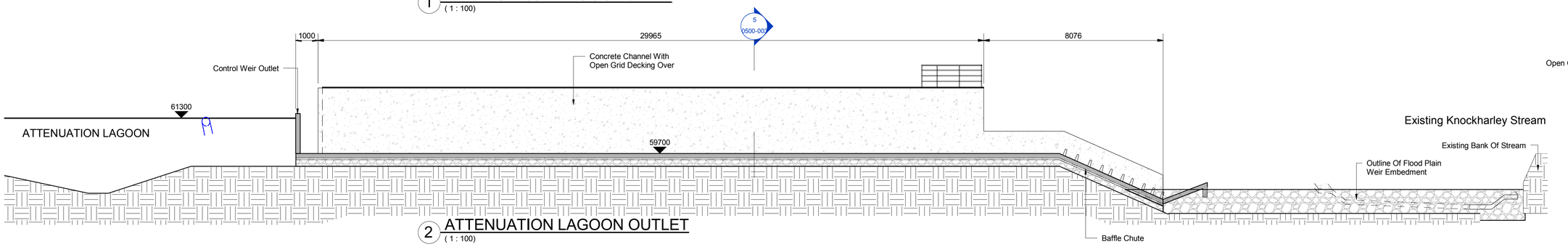
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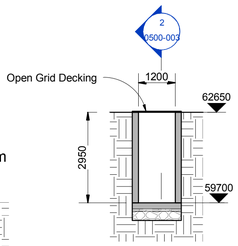
1 ATTENUATION LAGOON INLET
(1 : 100)



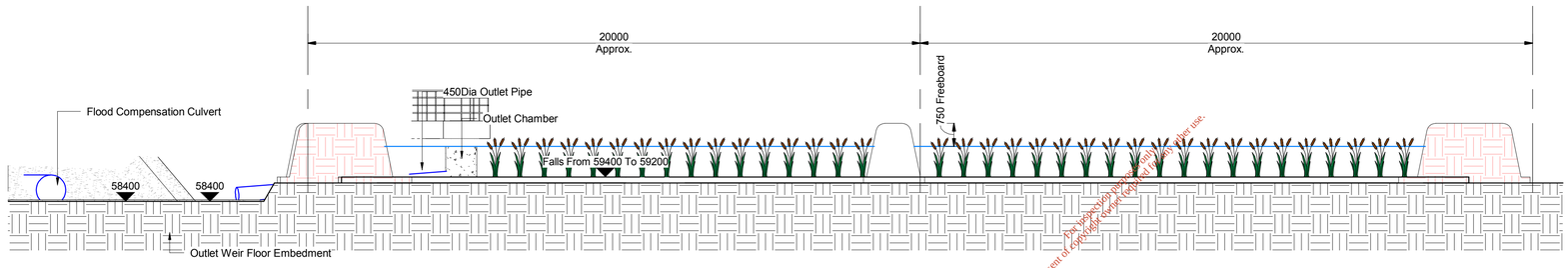
SECTION 6
(Scale 1 : 100)



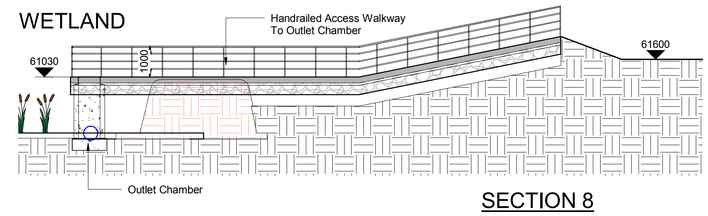
2 ATTENUATION LAGOON OUTLET
(1 : 100)



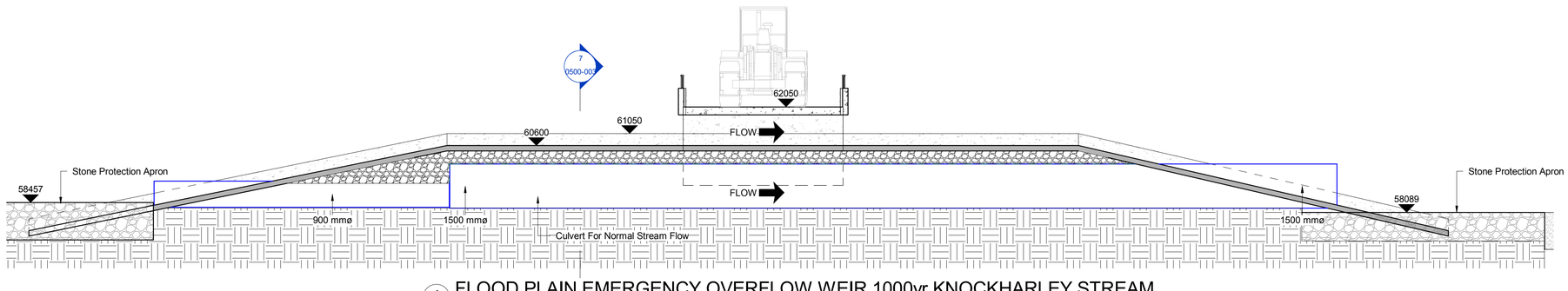
SECTION 5
(Scale 1 : 100)



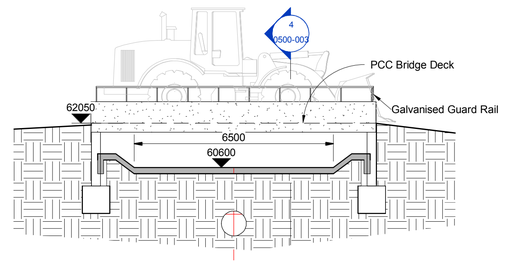
3 CROSS SECTION THRU' WETLAND
(1 : 100)



SECTION 8
(Scale 1 : 100)



4 FLOOD PLAIN EMERGENCY OVERFLOW WEIR 1000yr KNOCKHARLEY STREAM
(1 : 100)



SECTION 7
(Scale 1 : 100)

0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m
Scale 1:100 (at A1)

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Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
0500		PLANNING	EIAR

PROJECT
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT
KNOCKHARLEY LANDFILL Ltd.

SHEET
PROPOSED SURFACE WATER INFRASTRUCTURE CROSS SECTIONS

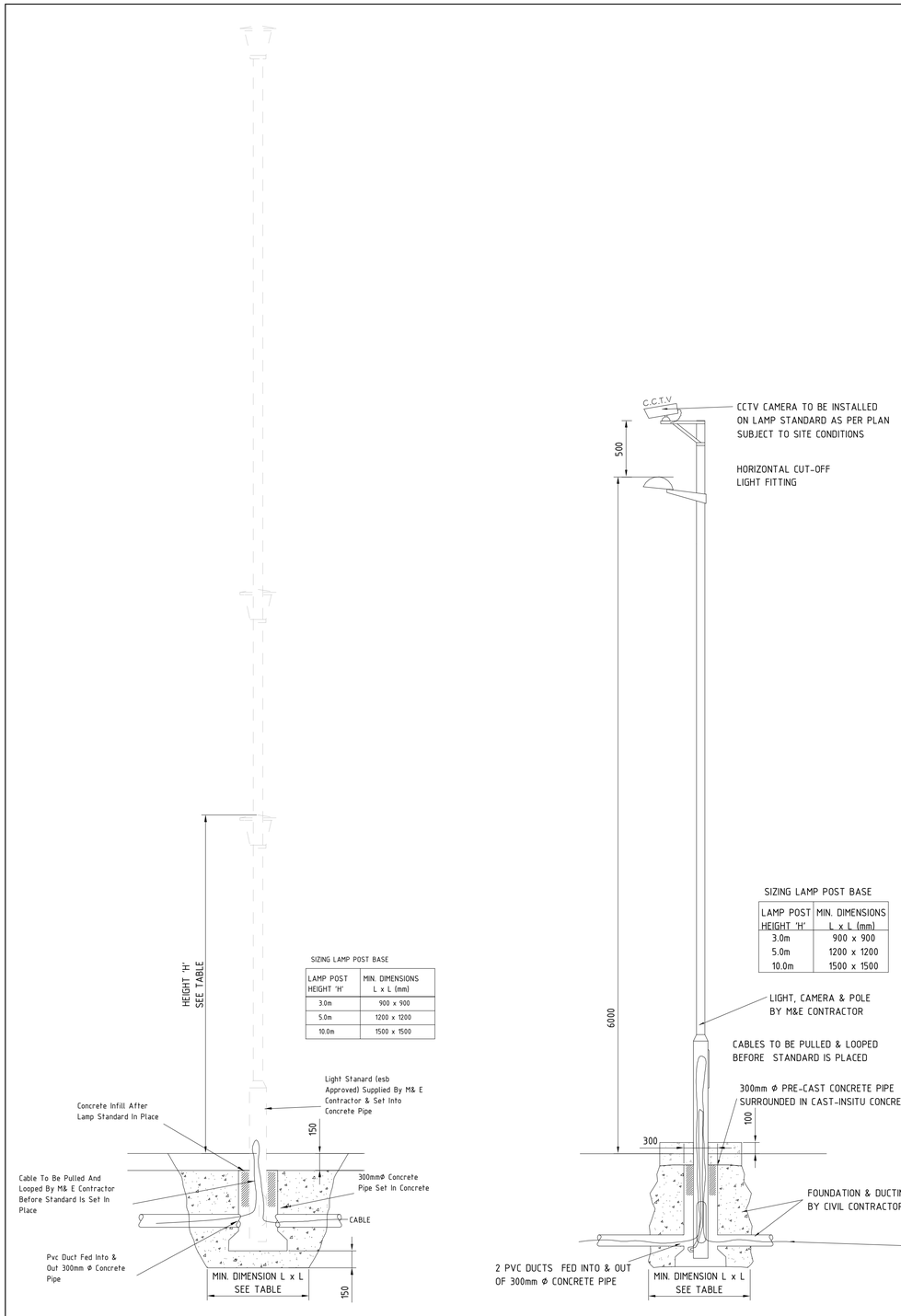
Date	Project number	Scale (@ A1)
09/11/17	LW14-821-01	1 : 100
Drawn by SK	Drawing Number	Rev
Checked by CJC	LW14-821-01-P-0500-003	A

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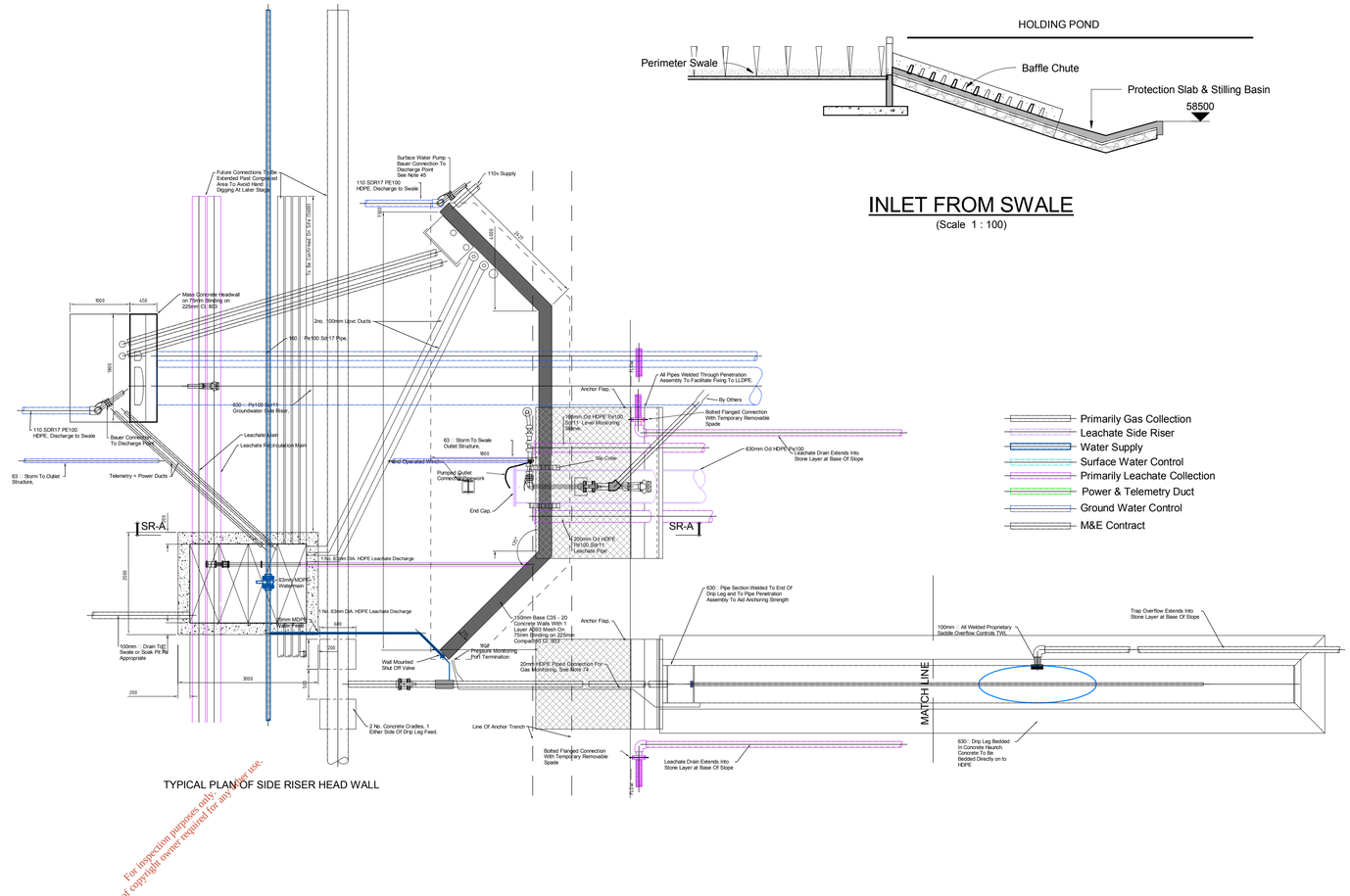


TYPICAL LAMP STANDARD DETAIL

TYPICAL LAMP STANDARD + CCTV DETAIL

Lamp Standard Details

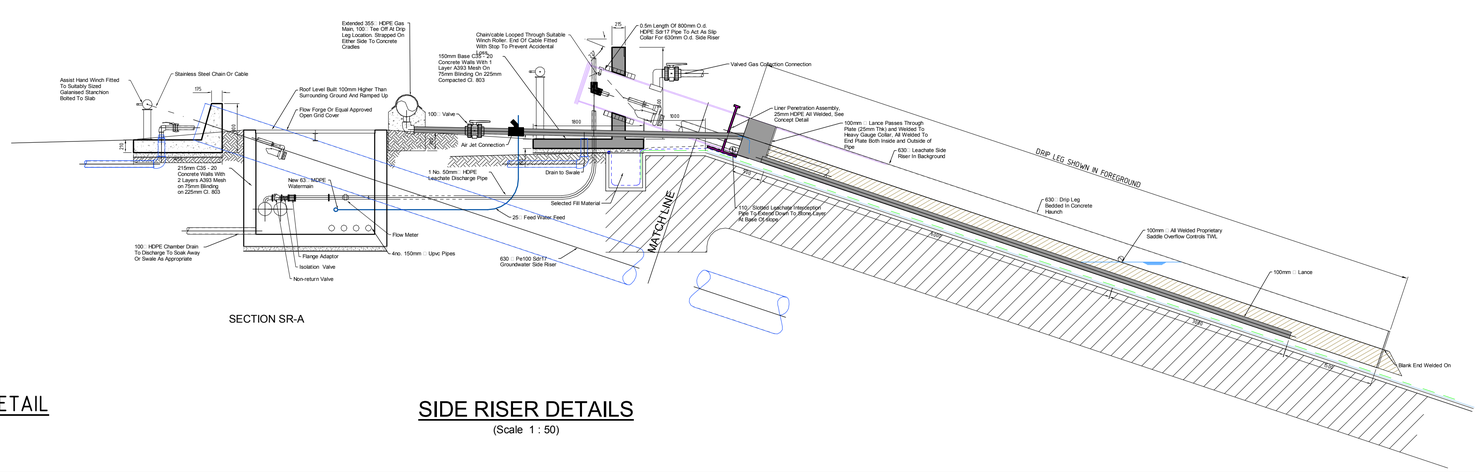
(Scale 1 : 25)



TYPICAL PLAN OF SIDE RISER HEAD WALL

INLET FROM SWALE

(Scale 1 : 100)



SECTION SR-A

SIDE RISER DETAILS

(Scale 1 : 50)

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Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
0500		PLANNING	EIAR

PROJECT
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT
KNOCKHARLEY LANDFILL Ltd.

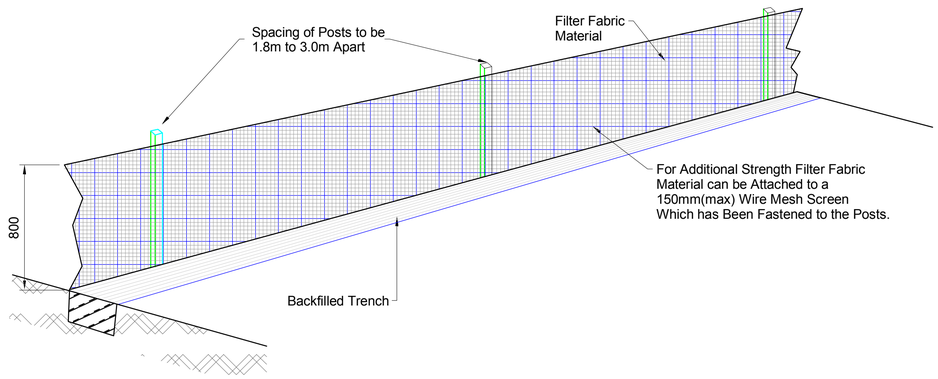
SHEET
LAMP STANDARD, GAS EXTRACTION AND SWALE INLET DETAILS

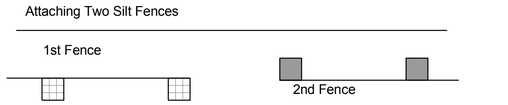
Date	Project number	Scale (@ A1)
01/17/18	LW14-821-01	As indicated
Drawn by SK	Drawing Number LW14-821-01-P-0500-004	Rev A
Checked by CJC		

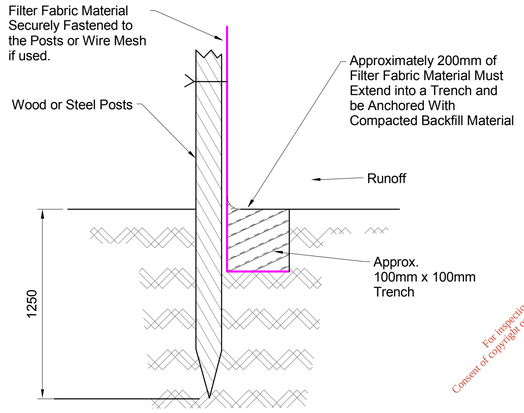
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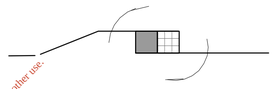






Step 1

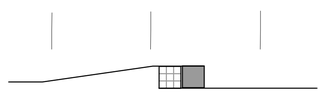
Place the End Post of the Second Fence Inside The End Post of The First Fence



Step 2

Rotate Both Posts at Least 180 Degrees in a Clockwise Direction to Create a Tight Seal With the Fabric Material

Direction of Runoff Waters



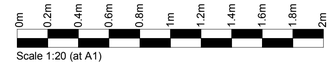
Step 3

Drive Both Posts About 250mm into the Ground and Bury Flap

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SILT FENCE DETAILS

(Scale 1 : 20)



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Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
0500		PLANNING	EIAR

PROJECT

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT

KNOCKHARLEY LANDFILL Ltd.

SHEET

DETAILS OF SILT FENCE

Date 03/09/18	Project number LW14-821-01	Scale (@ A1) 1 : 20
Drawn by SK	Drawing Number LW14-821-01-P-0500-005	Rev A
Checked by CJC		

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LEGEND

- Planning Boundary
- Areas Within Planning Boundary, Not Within Application Site
- Ownership Boundary — Refer to dwg P-0000-BDY For Clarity
- Existing Wayleave
- Ground Contours
- Existing Watercourse
- Landfill Cells currently being filled (2017/'18)
- Constructed Landfill Cells
- Final Forested Areas
- Permitted Landfill Cells, To Be Constructed
- Proposed IBA Facility
- IBA, Cell 33 (Outline Only Shown For Calrity)
- Proposed Screening Berms with Compensatory Replanting
- Proposed Stream Diversion
- Existing Berm

Ch. 4695m - Existing Culvert
Ch. 5113m - Existing Culvert
Ch. 5454m - Existing Culvert
Ch. 3709m - Existing Culvert
Ch. 2303m - Point of Discharge from Attenuation Pond
Existing Structure 4
Existing Structures 5(1) & 5(2)
Existing Structure 6

KNOCKHARLEY
TUITERATH
EXISTING GAS MAIN
Existing gas main
Community Hall
Area under construction
Existing O/H 20kV Powerline
Ruin
Quarry

PHASE 7 · PHASE 6 · PHASE 5 · PHASE 4
CELL 1 … CELL 28

4769.0m · 4695.0m · 5113.0m · 5363.0m · 5454.0m · 3709.0m · 2897.0m · 2621.0m · 2612.0m · 2303.0m · 1603.0m · 1100.0m · 1072.0m · 8.0m · 5.4m

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0m 50m 100m 150m 200m 250m 300m 350m 400m 450m 500m
Scale 1:5000

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Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

Rev.	Drawn	Chk'd	App'd	Date	Description
A		CJC	BG	Cork 10.07.18	Issue For Planning Application

Revision History: A — EIAR

Name of Client
KNOCKHARLEY LANDFILL LTD.

Name of Job
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

Title of Drawing
SITE LAYOUT WITH EXISTING STREAM STRUCTURES

Scales Used	This Drawing was printed to
1:5000	A1 -

Dwg. No.	Rev.
LW14-821-01-P-0500-006	A

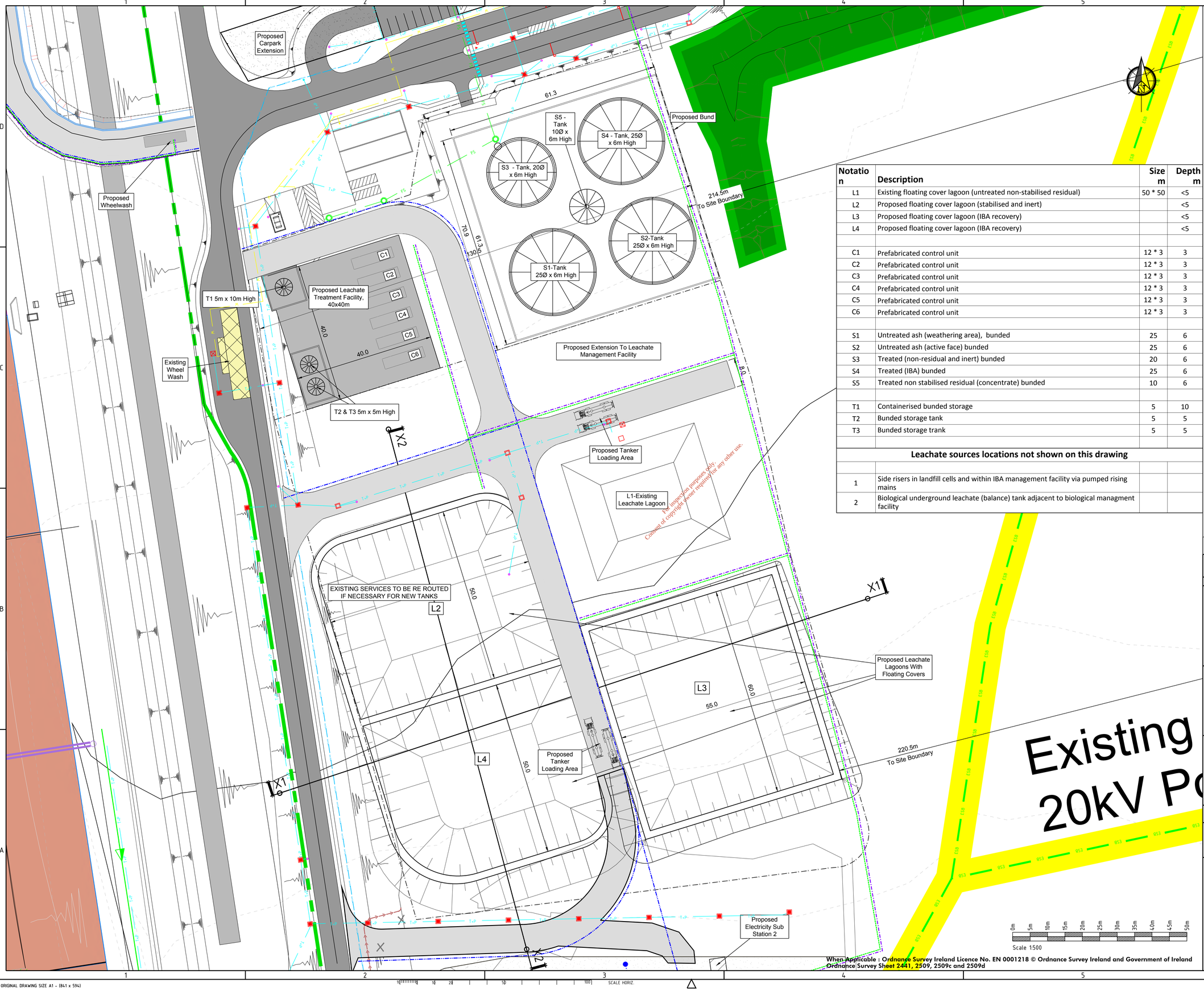
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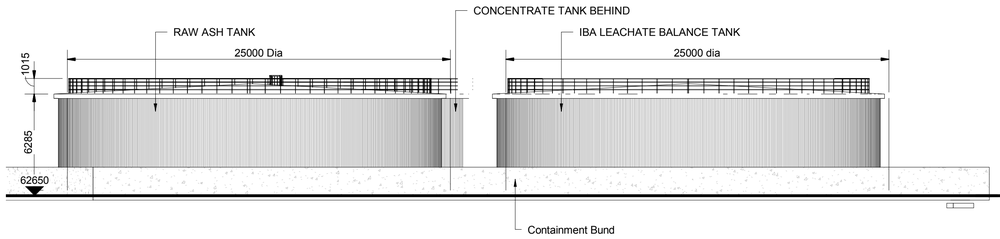
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ORIGINAL DRAWING SIZE A1 - (841 x 594)
SCALE - VERTICAL
SCALE HORIZ.

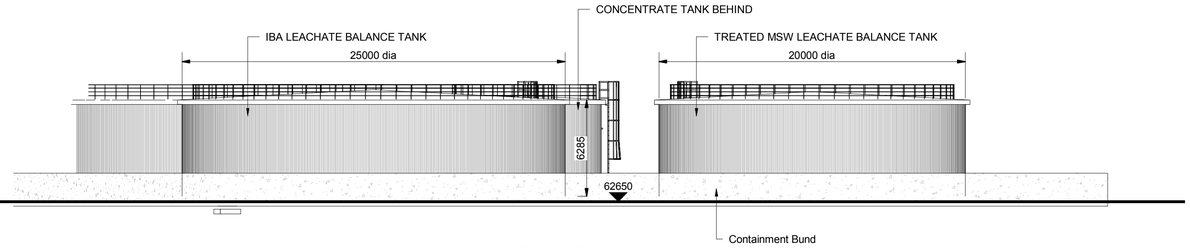
EPA Export 24-10-2019:04:10:15

Sheet FTC-A1-2015 rev. A (template filed in O:\Acad\Templates\Autocad) (Dec 2015) - template externally referenced

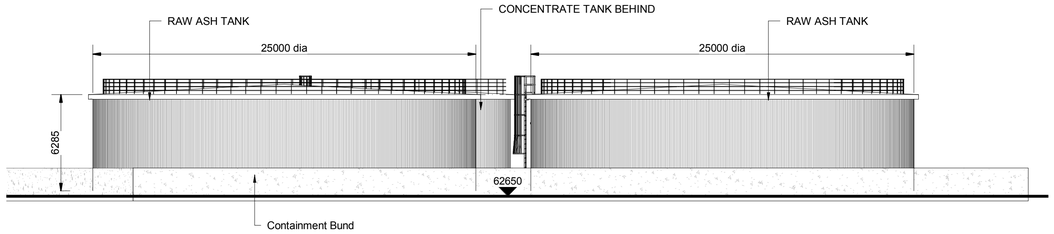

Proposed Carpark Extension
Proposed Wheelwash
Existing Wheel Wash
T1 5m x 10m High
Proposed Leachate Treatment Facility, 40x40m
C1
C2
C3
C4
C5
C6
40.0
40.0
T2 & T3 5m x 5m High
X2
S5 - Tank 10Ø x 6m High
S4 - Tank, 25Ø x 6m High
S3 - Tank, 20Ø x 6m High
S2-Tank 25Ø x 6m High
S1-Tank 25Ø x 6m High
61.3
70.9
61.3
30.6
Proposed Bund
214.5m To Site Boundary
Proposed Extension To Leachate Management Facility
8.0
Proposed Tanker Loading Area
L1-Existing Leachate Lagoon
EXISTING SERVICES TO BE RE ROUTED IF NECESSARY FOR NEW TANKS
L2
50.0
X1
Proposed Leachate Lagoons With Floating Covers
L3
55.0
60.0
L4
50.0
Proposed Tanker Loading Area
220.5m To Site Boundary
Proposed Electricity Sub Station 2
Existing
20kV Po
ESB
ESB
ESB



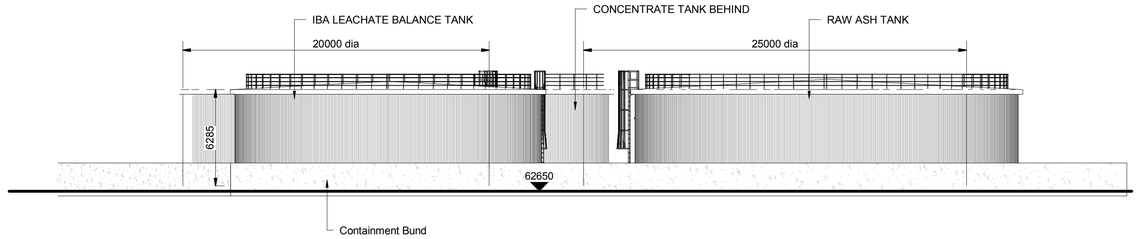
Tank Farm Elevation East
(Scale 1 : 200)



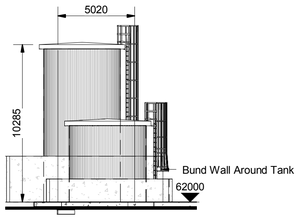
Tank Farm Elevation North
(Scale 1 : 200)



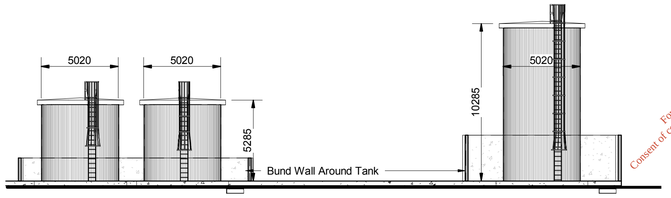
Tank Farm Elevation South
(Scale 1 : 200)



Tank Farm Elevation West
(Scale 1 : 200)

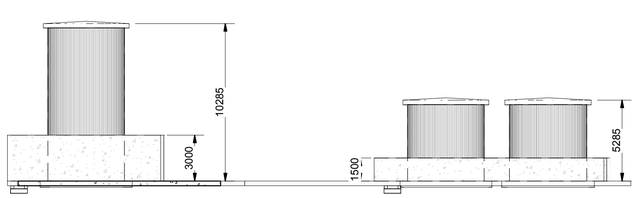


Leachate Tank Elevation - South
(Scale 1 : 200)

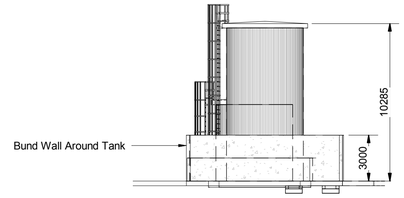


Leachate Tank Elevation- East
(Scale 1 : 200)

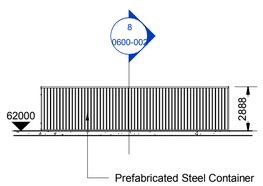
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Leachate Tank Elevation- West
(Scale 1 : 200)

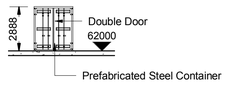


Leachate Tank Elevation - North
(Scale 1 : 200)



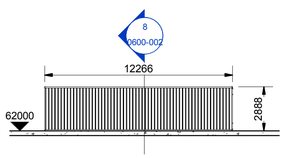
North Elevation, South Elevation Similar

Prefabricated Control Unit Elevation -South
(Scale 1 : 200)

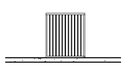


West Elevation

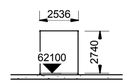
Prefabricated Control Unit Elevation - West
(Scale 1 : 200)



Prefabricated Control Unit Elevation -North
(Scale 1 : 200)



Prefabricated Control Unit Elevation - East
(Scale 1 : 200)



Leachate Yard Unit - Section
(Scale 1 : 200)

REFER TO P0600-003 FOR PLANS

0m 2m 4m 6m 8m 10m 12m 14m 16m 18m 20m
Scale 1:200 (at A1)

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Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
0600		PLANNING	EIAR

PROJECT: PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT: **KNOCKHARLEY LANDFILL Ltd.**

SHEET: TANK FARM And LEACHATE TREATMENT EQUIPMENT ELEVATIONS

Date: 01/18/18	Project number: LW14-821-01	Scale (@ A1): 1 : 200
Drawn by: SK	Drawing Number: LW14-821-01-P-0600-002	Rev: A
Checked by: CJC		

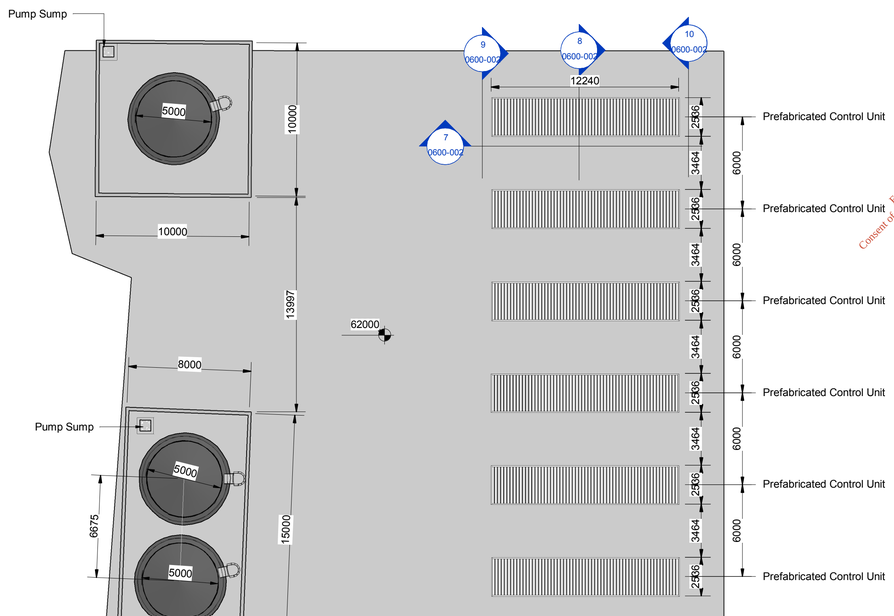
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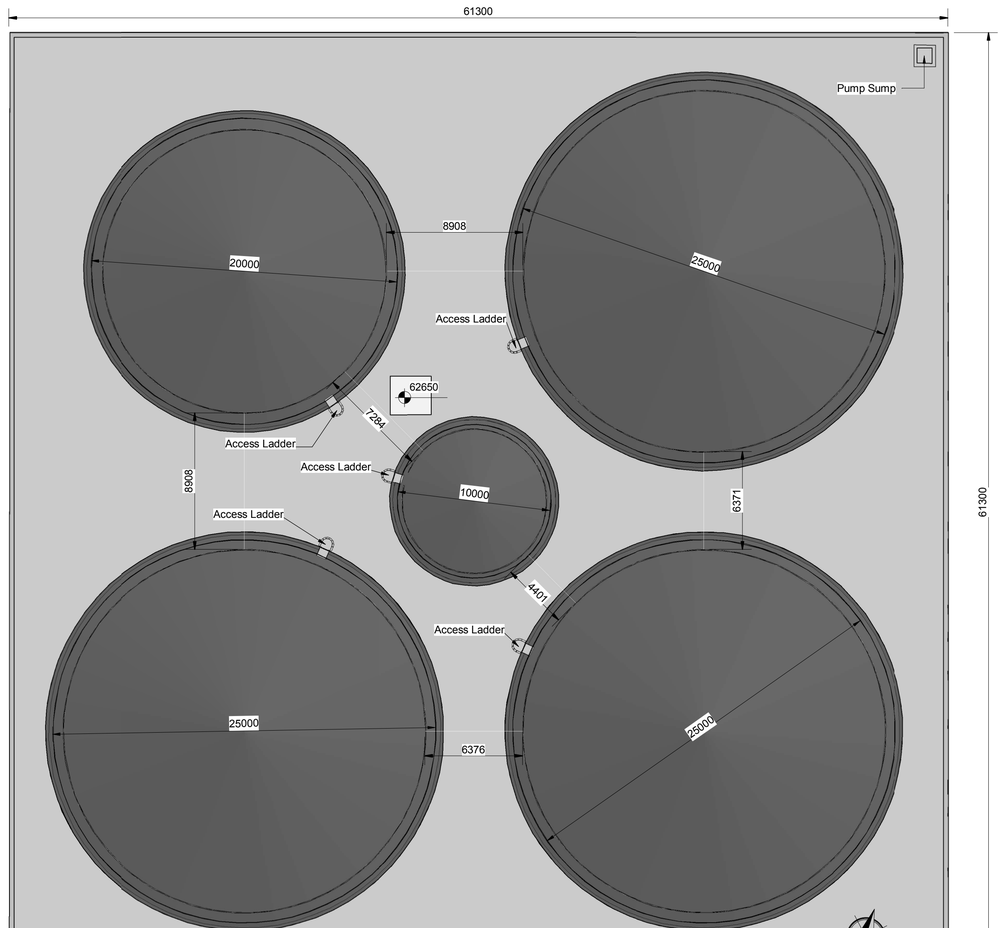
Drawing printed: 09/07/2018 10:29:34

EPA Export 24-10-2019:04:19:15

Notes:

1. **Refer to 1:1000 series drawings (LW14-821-01-P-0000-004 To 011) layout of existing and proposed services.**





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LEACHATE YARD

(Scale 1 : 200)

0m 2m 4m 6m 8m 10m 12m 14m 16m 18m 20m

Scale 1:200 (at A1)

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Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
0600		PLANNING	EIAR

PROJECT

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT

KNOCKHARLEY LANDFILL Ltd.

SHEET

TANK FARM And LEACHATE TREATMENT EQUIPMENT PLAN

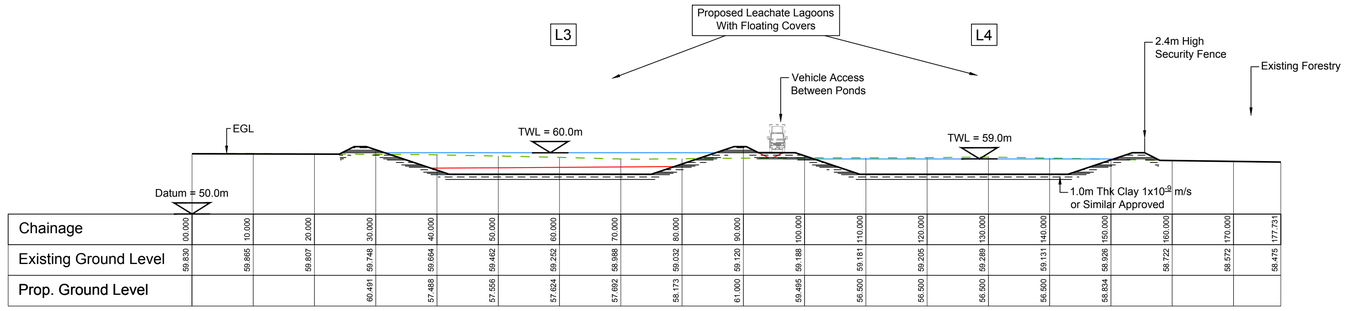
Date	Project number	Scale (@ A1)
02/12/18	LW14-821-01	As indicated
Drawn by SK	**Drawing Number** LW14-821-01-P-0600-003	**Rev** A
Checked by CJC		

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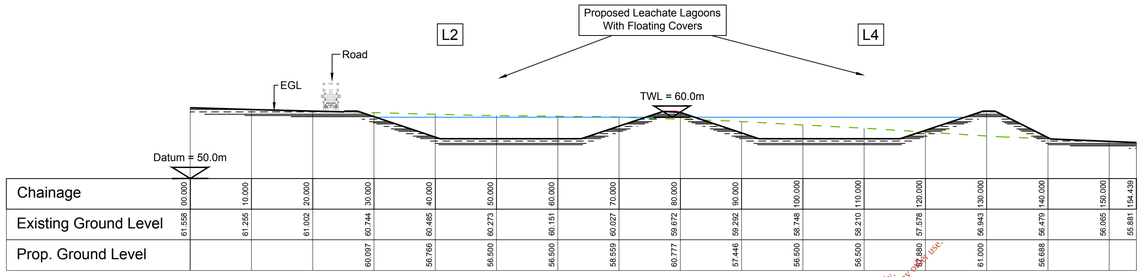
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Sheet FTC-A1-2015 rev. A (template filed in O:\Acad\Templates\Autocad) (Dec 2015) - template externally referenced



Chainage	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	177.731
Existing Ground Level	59.839	59.865	59.807	59.748	59.664	59.462	59.252	58.988	59.032	59.120	59.188	59.181	59.205	59.289	59.131	58.926	58.722	58.572	58.475
Prop. Ground Level				60.491	57.488	57.556	57.624	57.692	58.173	61.000	59.495	56.500	56.500	56.500	56.500	58.834			

SECTION X1



Chainage	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	154.439
Existing Ground Level	61.558	61.255	61.602	60.744	60.485	60.273	60.151	60.027	59.672	59.292	58.748	58.210	57.578	56.943	56.479	56.065	55.881
Prop. Ground Level				60.097	56.766	56.500	56.500	58.559	60.777	57.446	56.500	56.500	57.880	61.000	56.688		

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SECTION X2

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Rev.	Drawn	Chk'd	App'd		
A	SK	CJC	BG	Cork 10.07.18	Issue For Planning Application

Revision History: A — EIAR

Name of Client

KNOCKHARLEY LANDFILL LTD.

Name of Job

PROPOSED DEVELOPMENT
AT KNOCKHARLEY LANDFILL

Title of Drawing

CROSS SECTIONS THROUGH
FLOATING COVER LAGOONS

Scales Used: 1:500

This Drawing was printed to A1-

Dwg. No. LW14-821-01-P-0600-004

Rev. A

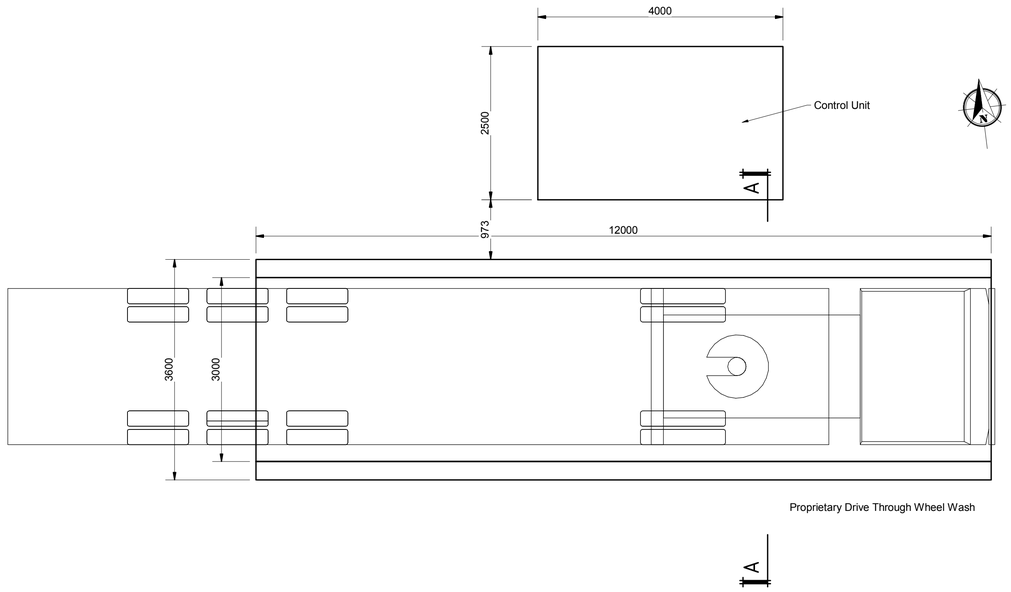
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Scale 1:500

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Ordnance Survey Sheet 2441, 2509, 2509c and 2509d

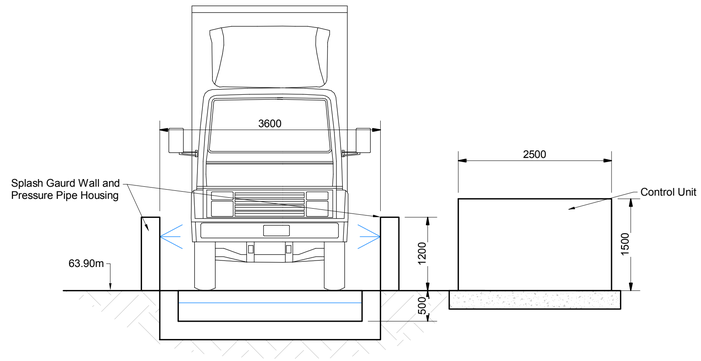
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ORIGINAL DRAWING SIZE A1 - (841 x 594)
SCALE - VERTICAL
SCALE HORIZ.
EPA Export 24-10-2019:04:12:15



Proprietary Drive Through Wheel Wash

PLAN

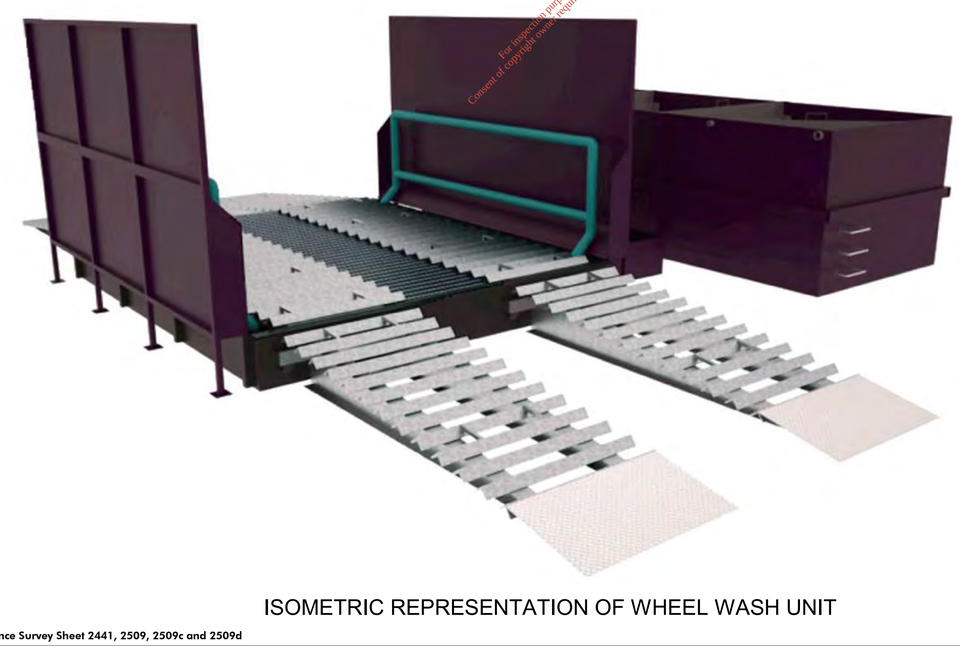


SECTION A-A

WHEELWASH DETAILS

(Scale 1 : 50)

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ISOMETRIC REPRESENTATION OF WHEEL WASH UNIT

0m 0.5m 1m 1.5m 2m 2.5m 3m 3.5m 4m 4.5m 5m

Scale 1:50 (at A1)

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Rev.	Description	App By	Date
A	ISSUE FOR PLANNING APPLICATION	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
0600		PLANNING	EIAR

PROJECT

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT

KNOCKHARLEY LANDFILL Ltd.

SHEET

PROPOSED WHEEL WASH DETAILS

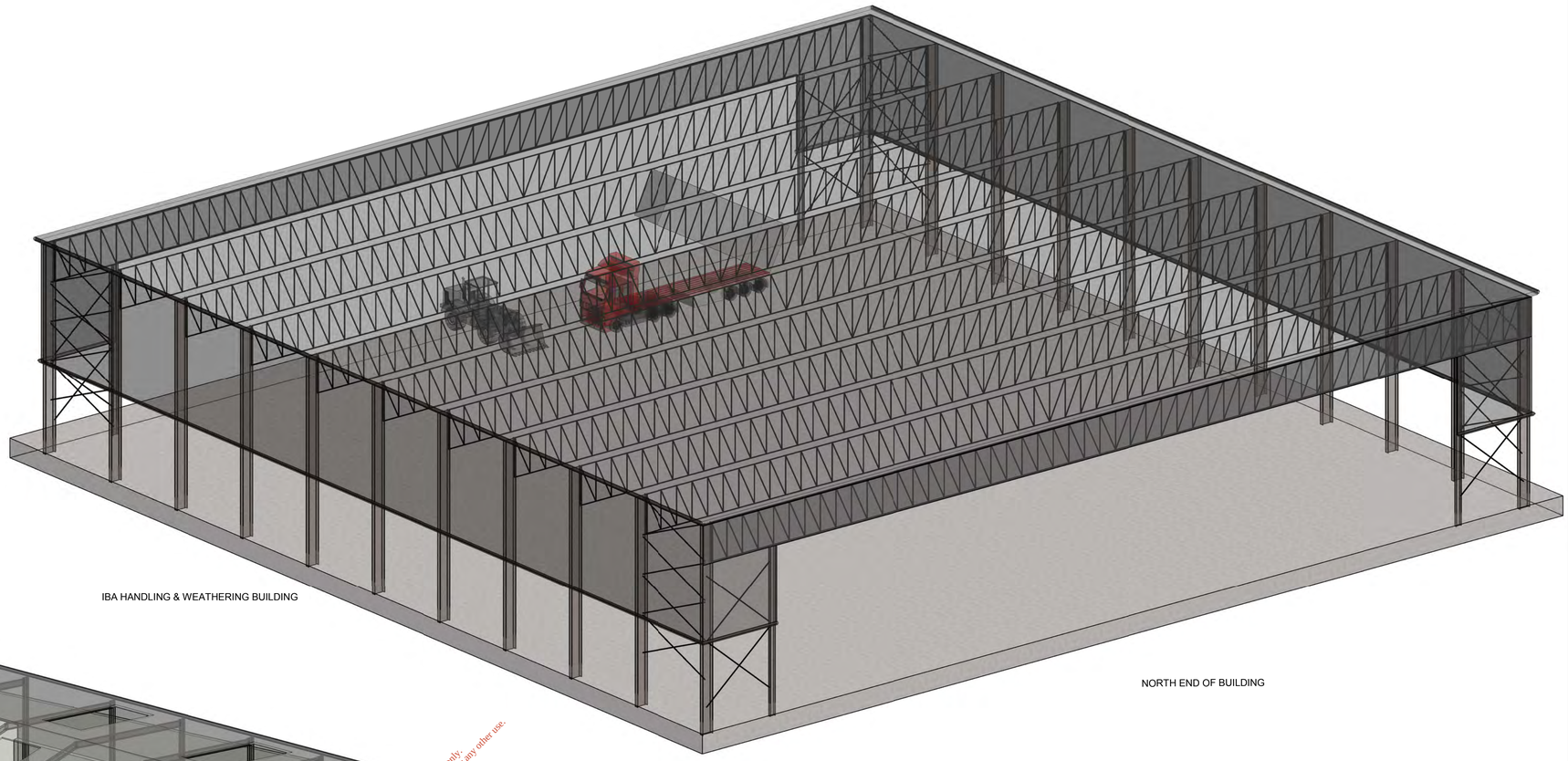
Date 02/13/18	Project number LW14-821-01	Scale (@ A1) 1 : 50
Drawn by SK	Drawing Number LW14-821-01-P-0600-005	Rev A
Checked by CJC		

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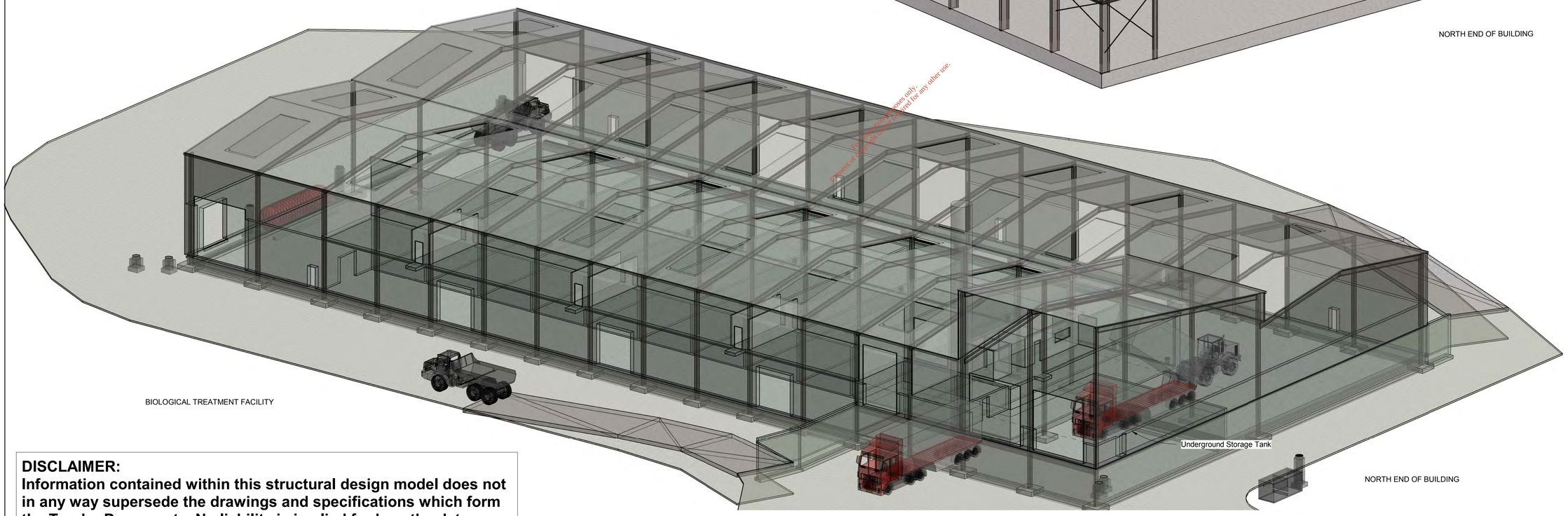
EPA Export 24-10-2019:04:19:15

Sheet List				
Zone	Level	Sheet Number	Sheet Name	Revision
P	1700	000	OVERVIEW OF BIOLOGICAL TREATMENT FACILITY AND IBA FACILITY BUILDING	A
P	1700	001	SITE LAYOUT PLAN OF PROPOSED BIOLOGICAL TREATMENT FACILITY	A
P	1700	002	PROPOSED BIOLOGICAL TREATMENT FACILITY GROUND FLOOR PLAN	A
P	1700	003	PROPOSED BIOLOGICAL TREATMENT FACILITY FIRST FLOOR PLAN	A
P	1700	004	PROPOSED BIOLOGICAL TREATMENT FACILITY ROOF PLAN	A
P	1700	005	PROPOSED BIOLOGICAL TREATMENT FACILITY CROSS SECTIONS	A
P	1700	006	PROPOSED BIOLOGICAL TREATMENT FACILITY ELEVATIONS	A
P	1700	007	DETAILS OF FULL RETENTION OIL INTERCEPTOR	A
P	1700	008	PROPOSED BIOLOGICAL TREATMENT FACILITY LEACHATE & SEPTIC TANK DETAILS	A
P	1700	010	ESB MV SUBSTATION DETAILS	A
P	1700	021	PROPOSED IBA FACILITY BUILDING FLOOR PLAN	A
P	1700	022	PROPOSED IBA FACILITY BUILDING ROOF PLAN	A
P	1700	023	PROPOSED IBA FACILITY BUILDING SECTION AND ELEVATIONS	A



IBA HANDLING & WEATHERING BUILDING

NORTH END OF BUILDING



BIOLOGICAL TREATMENT FACILITY

NORTH END OF BUILDING

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Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
-	-	-	EIAR

PROJECT
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

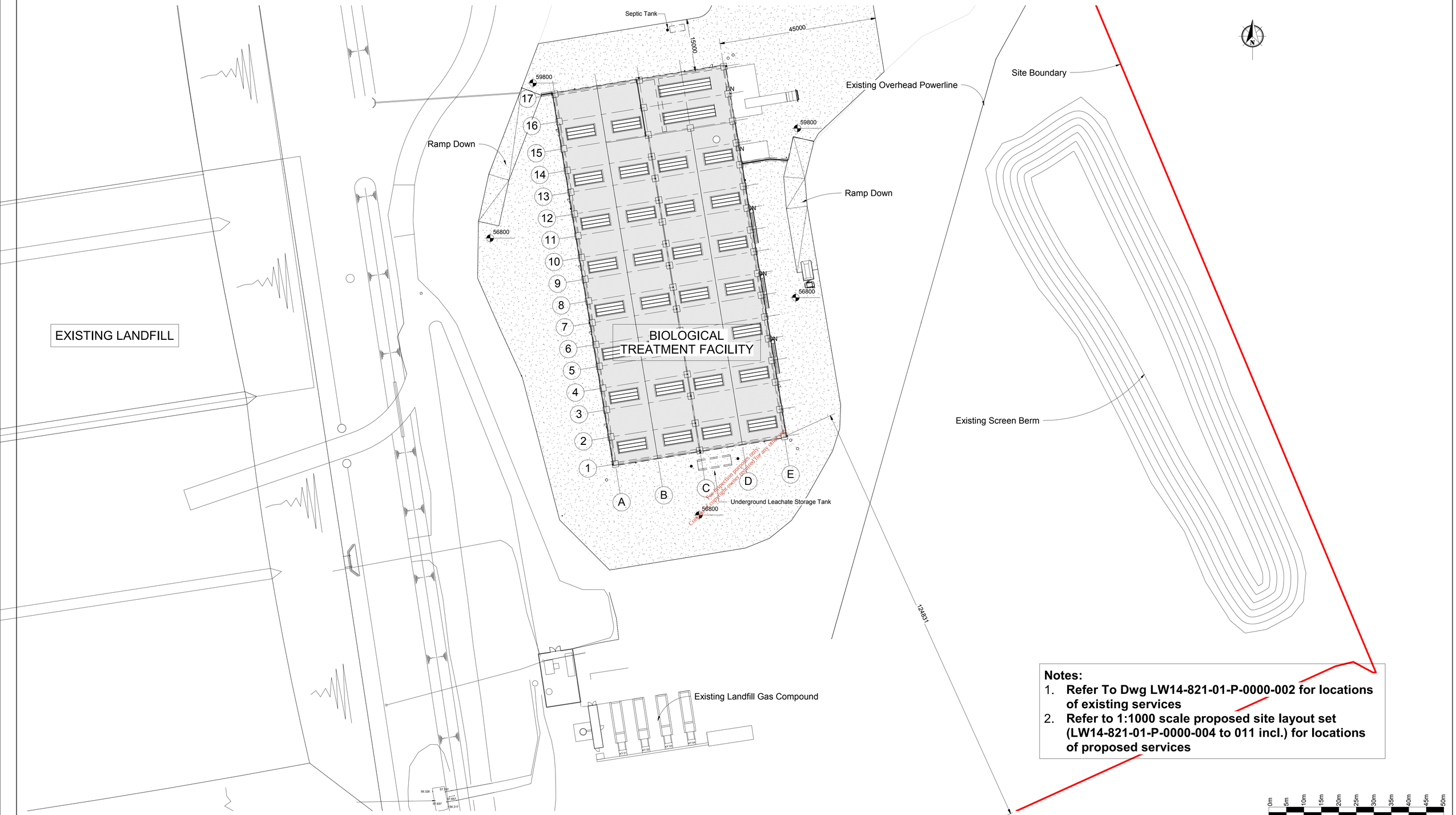
CLIENT
KNOCKHARLEY LANDFILL Ltd.

SHEET
OVERVIEW OF BIOLOGICAL TREATMENT FACILITY AND IBA FACILITY BUILDING

Date	Project number	Scale (@ A1)
10.07.18	LW14-821-01	N/A
Drawn by SK	Drawing Number	Rev
Checked by CC	LW14-821-01-P-1700-000	A

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SITE PLAN BIOLOGICAL TREATMENT FACILITY

(Scale 1 : 500)

Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT: PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT: **KNOCKHARLEY LANDFILL Ltd.**

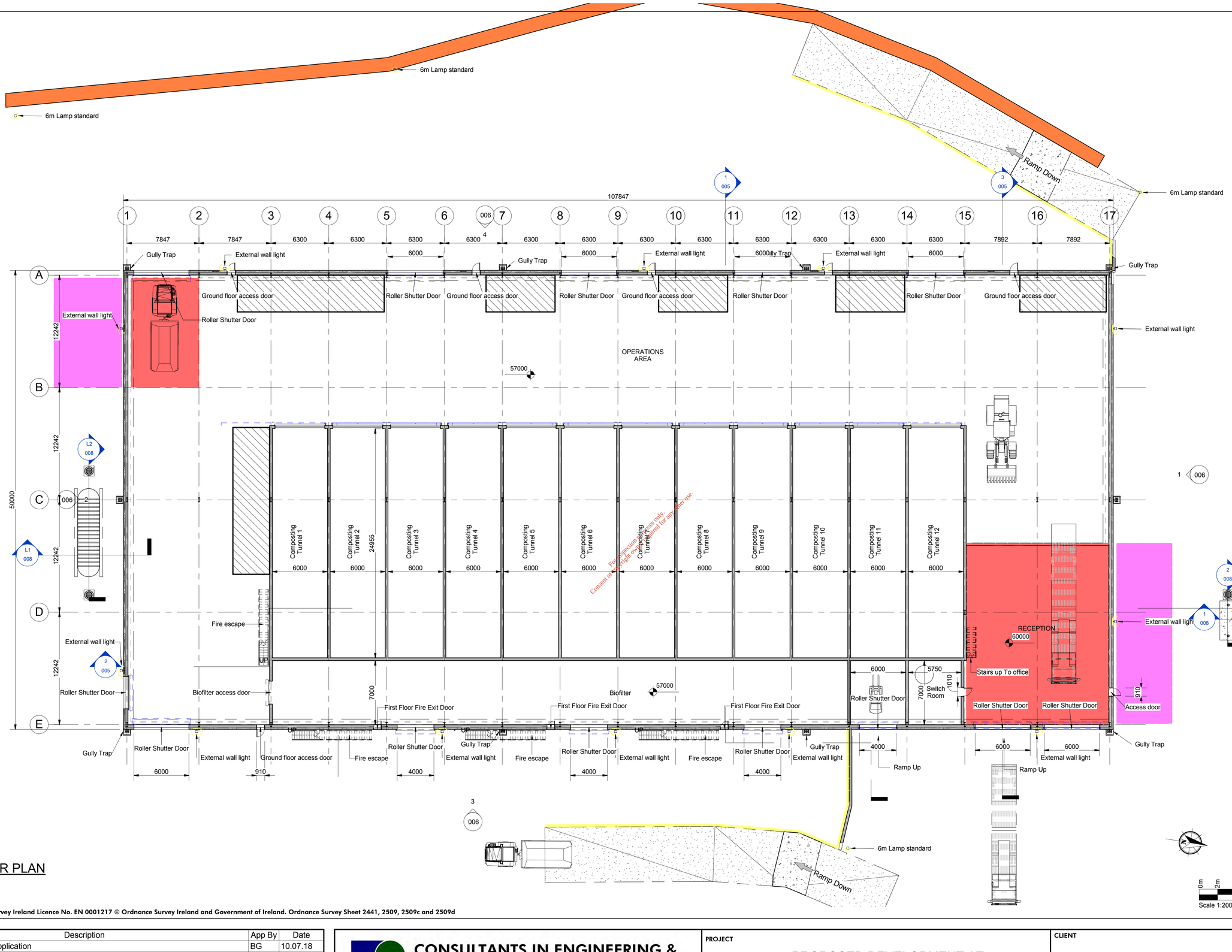
SHEET: SITE LAYOUT PLAN OF PROPOSED BIOLOGICAL TREATMENT FACILITY

Date	Project number	Scale (@ A1)
04/04/17	LW14-821-01	As indicated
Drawn by SK	Drawing Number	Rev
Checked by CC	LW14-821-01-P-1700-001	A

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GROUND FLOOR PLAN

(Scale 1 : 200)

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Scale 1:200 (at A1)

Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT: PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT: **KNOCKHARLEY LANDFILL Ltd.**

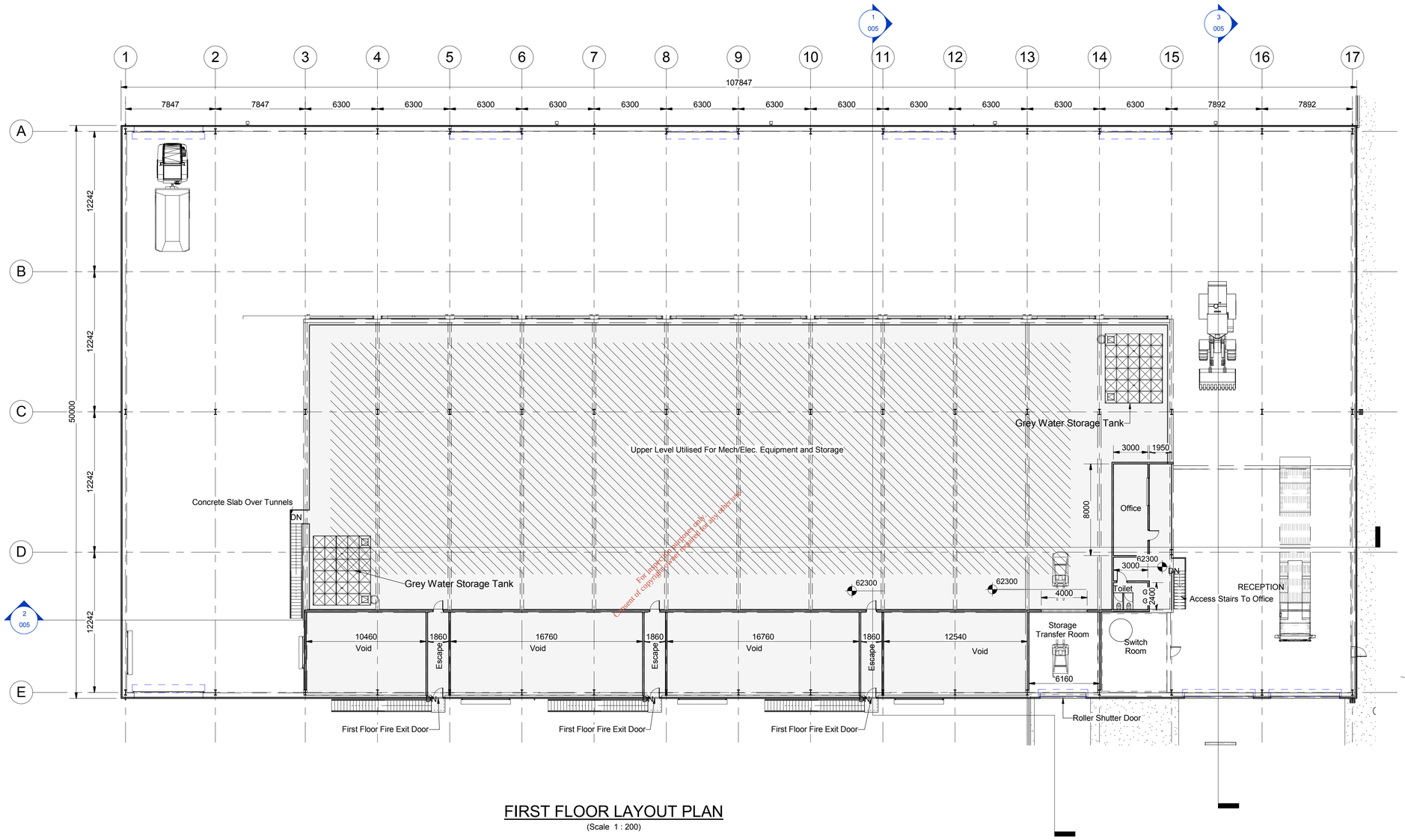
SHEET: PROPOSED BIOLOGICAL TREATMENT FACILITY GROUND FLOOR PLAN

Date: 09/27/17	Project number: LW14-821-01	Scale (@ A1): 1 : 200
Drawn by: SK	Drawing Number: LW14-821-01-P-1700-002	Rev: A
Checked by: CC		

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FIRST FLOOR LAYOUT PLAN

(Scale 1 : 200)

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Scale 1:200 (at A1)

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Rev.	Description	App By	Date
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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT

KNOCKHARLEY LANDFILL Ltd.

SHEET

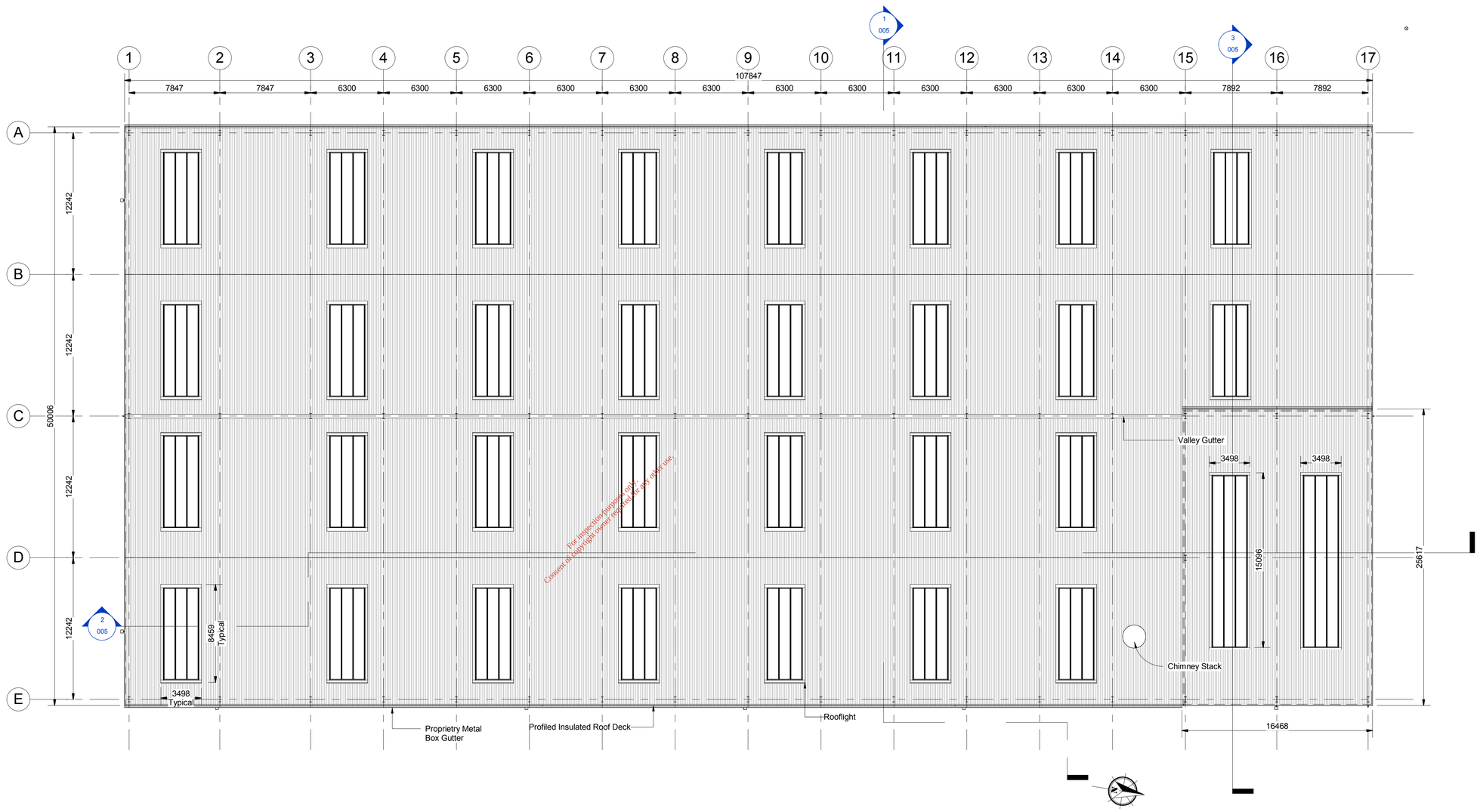
PROPOSED BIOLOGICAL TREATMENT FACILITY FIRST FLOOR PLAN

Date	Project number	Scale (@ A1)
01/16/18	LW14-821-01	1 : 200
Drawn by SK	**Drawing Number**	**Rev**
Checked by CC	LW14-821-01-P-1700-003	A

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ROOF PLAN

(Scale 1 : 200)

0m 2m 4m 6m 8m 10m 12m 14m 16m 18m 20m

Scale 1:200 (at A1)

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Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT

KNOCKHARLEY LANDFILL Ltd.

SHEET

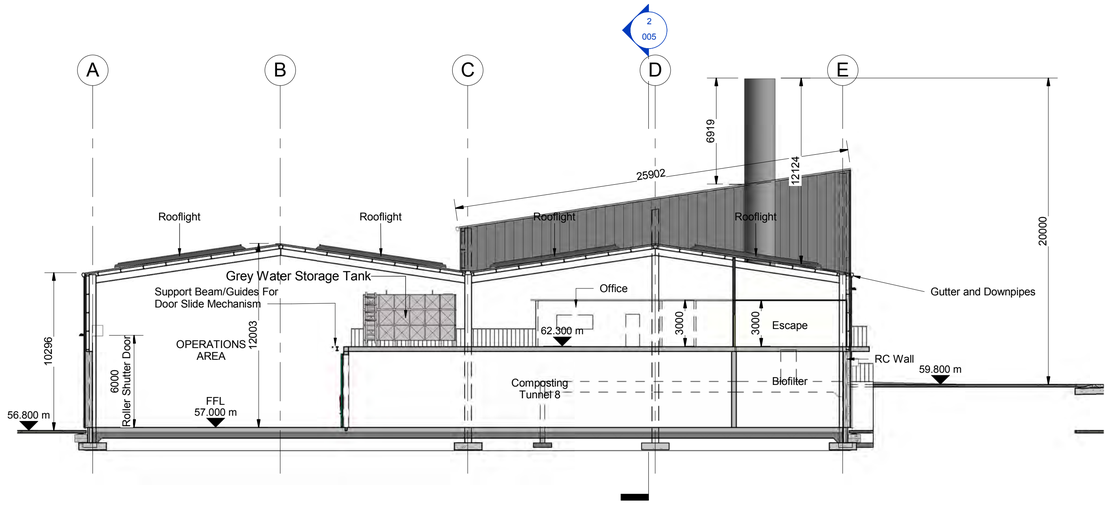
PROPOSED BIOLOGICAL TREATMENT FACILITY ROOF PLAN

Date	Project number	Scale (@ A1)
09/27/17	LW14-821-01	1 : 200
Drawn by SK	Drawing Number	Rev
Checked by CC	LW14-821-01-P-1700-004	A

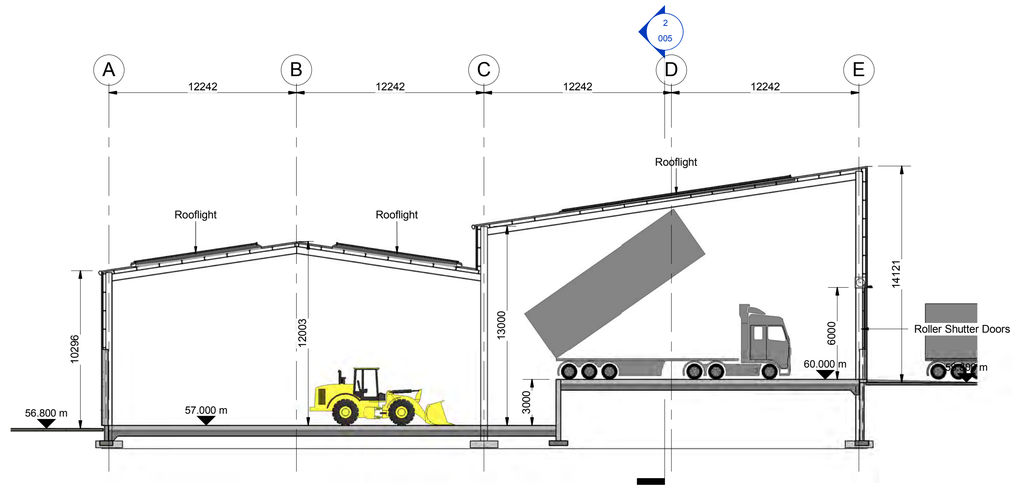
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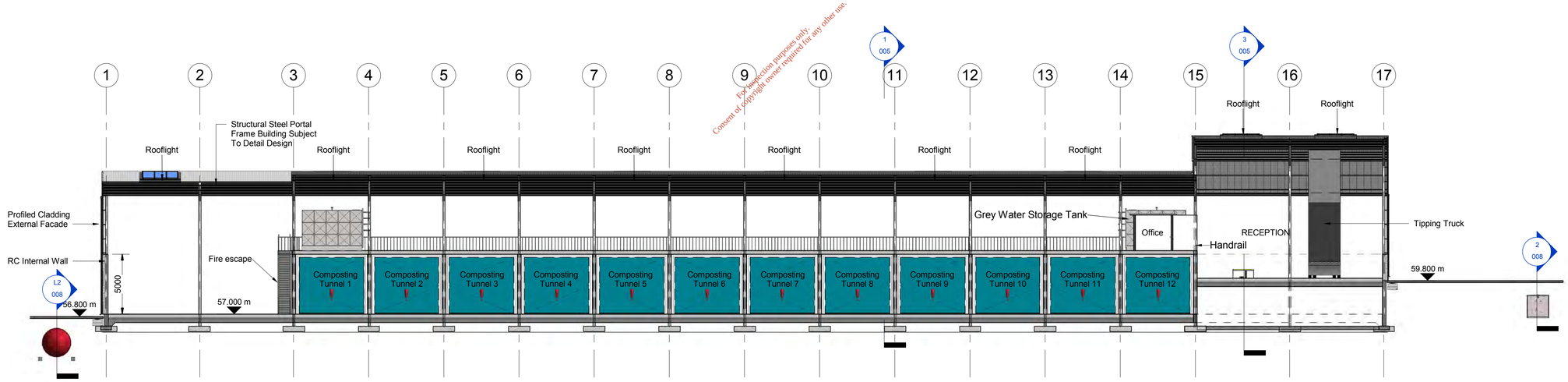
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Section 1
(Scale 1 : 200)



Section 3
(Scale 1 : 200)



Section 2
(Scale 1 : 200)

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Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT
KNOCKHARLEY LANDFILL Ltd.

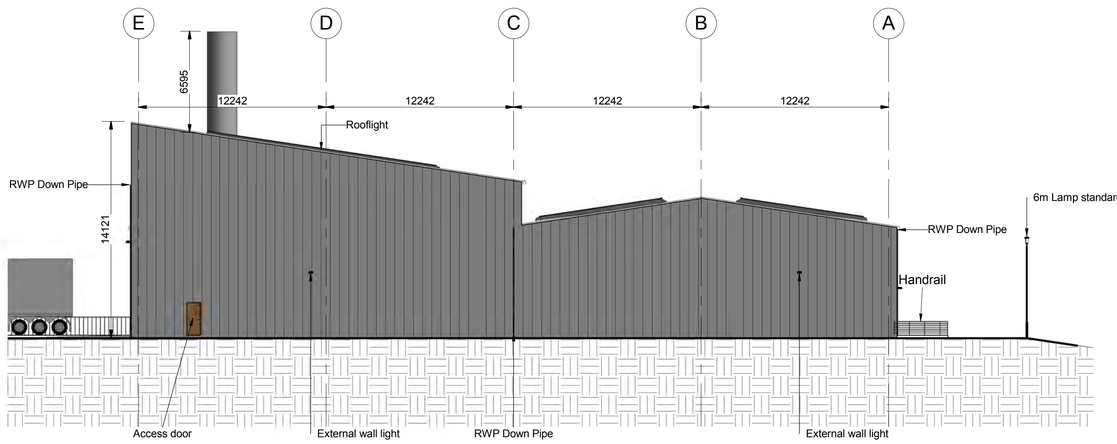
SHEET
PROPOSED BIOLOGICAL TREATMENT FACILITY CROSS SECTIONS

Date	Project number	Scale (@ A1)
09/27/17	LW14-821-01	1 : 200
Drawn by SK	Drawing Number LW14-821-01-P-1700-005	Rev A
Checked by CC		

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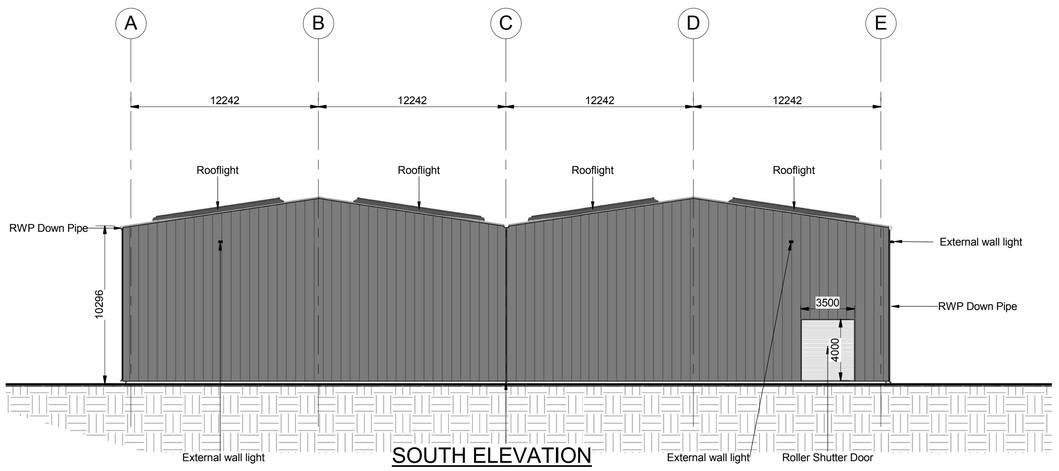
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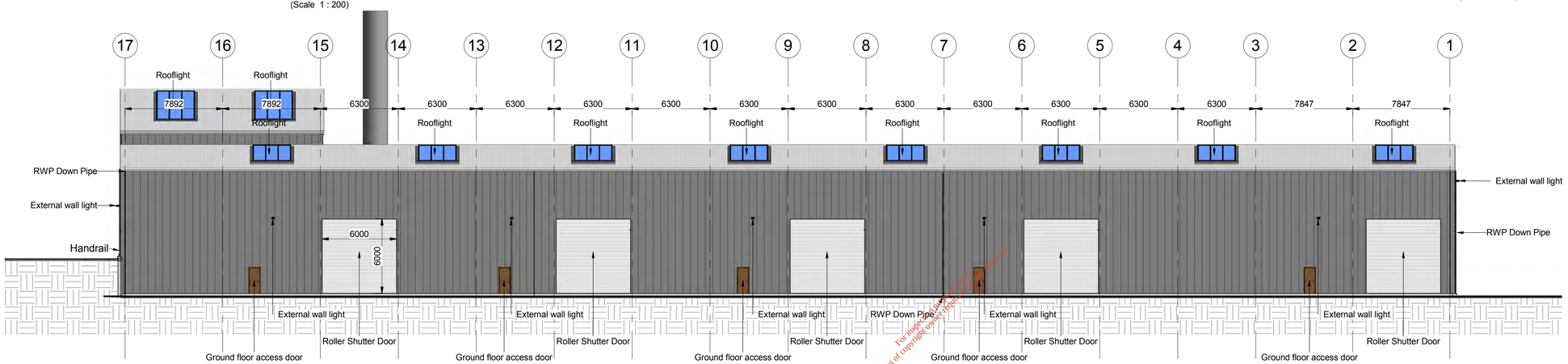
NORTH ELEVATION

(Scale 1 : 200)



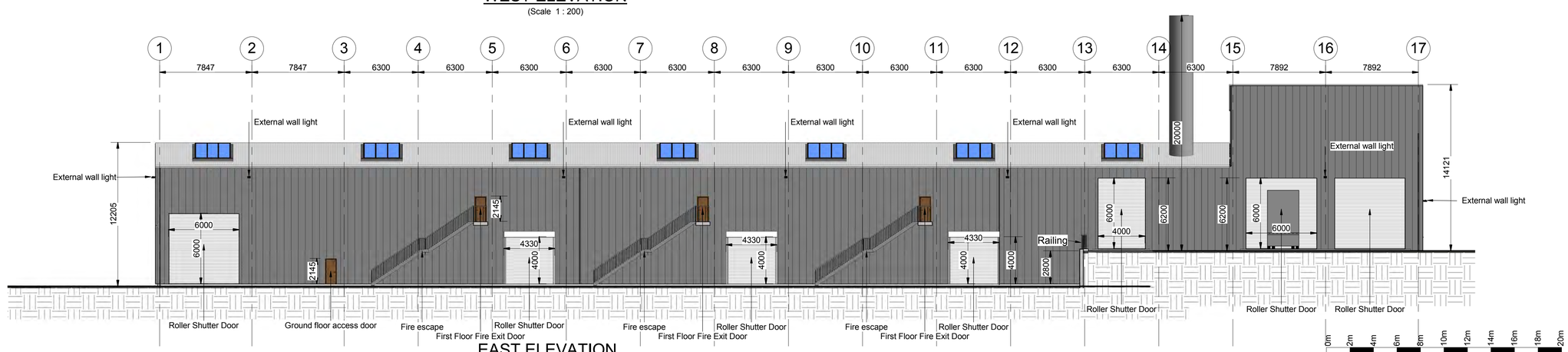
SOUTH ELEVATION

(Scale 1 : 200)



WEST ELEVATION

(Scale 1 : 200)



EAST ELEVATION

(Scale 1 : 200)

EXTERNAL FINISH

1. WALLS - VERTICAL PROFILED INSULATED METAL CLADDING
2. ROOF - PROFILED INSULATED METAL ROOF PANEL SYSTEM
3. MUSHROOM COLOUR (RAL 1006020)

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Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT

KNOCKHARLEY LANDFILL Ltd.

SHEET

PROPOSED BIOLOGICAL TREATMENT FACILITY ELEVATIONS

Date	Project number	Scale (@ A1)
09/27/17	LW14-821-01	1 : 200
Drawn by SK	Drawing Number	Rev
Checked by CC	LW14-821-01-P-1700-006	A

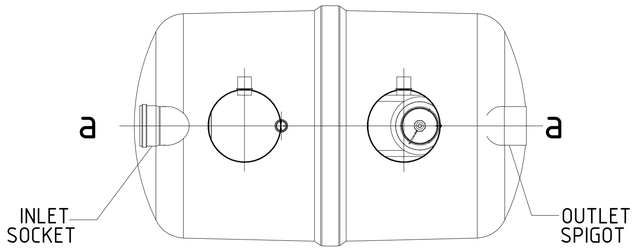
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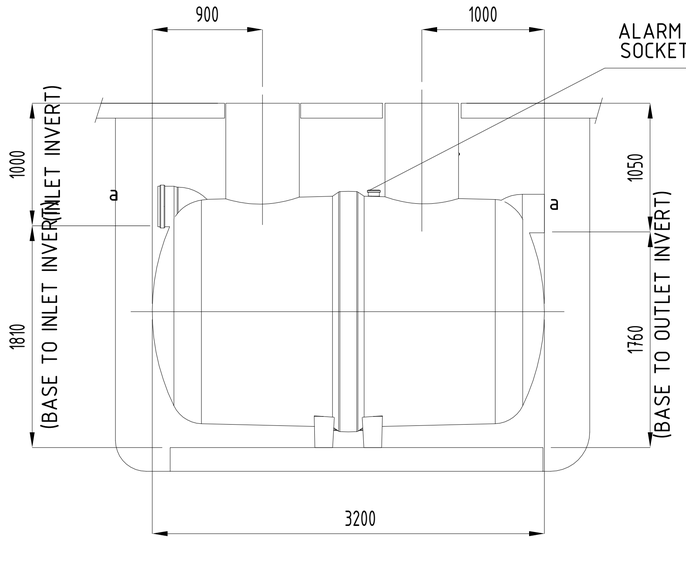
EPA Export 24-10-2019:04:19:16

UNIT REF.	NOMINAL FLOW RATE (L/s)	APPROX. EMPTY WEIGHT (kg)	OVERALL LENGTH 'L'
NSFA020	20	575	3200
NSFA030	30	665	3915
NSFA040	40	740	4640
NSFA050	50	985	5425
NSFA065	65	1145	6850
INFORMATION COMMON FOR CLASS 1 & CLASS 2 UNITS			

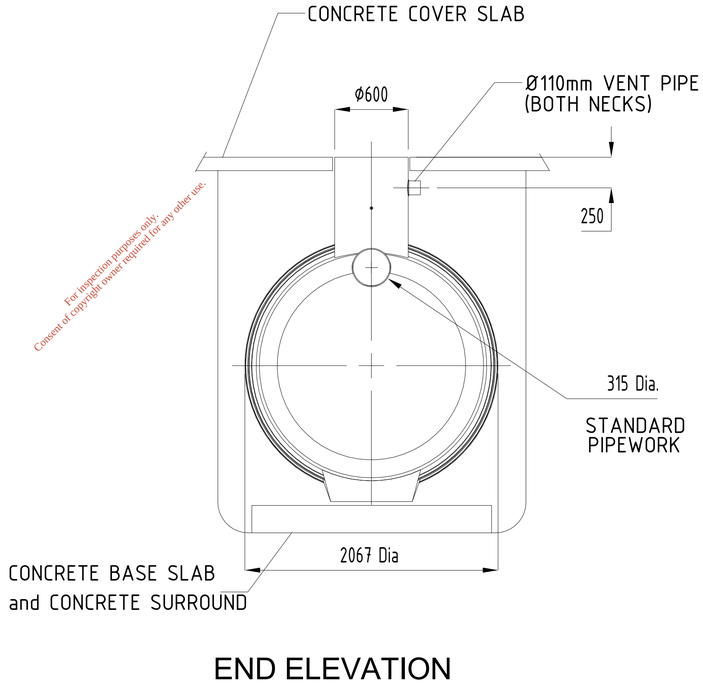
NOTES:-
1. Inlet/outlet pipes are plain pipe ø315mm PVCu. The standard EN858 states minimum connection sizes, units ordered with different sized connections are not fully compliant with the standard.
2. Please note. A Class 1 Separator includes filter media, Class 2 do not.
3. Extension necks for deeper inverts can be provided in 0.5m increments, for on site assembly. Maximum 2.0m invert recommended.
4. All units require appropriate cover and frame to suit applied loadings.
5. This drawing should be used for dimensional Information only. It is essential that this drawing is read in conjunction with installation guidelines supplied with unit. (copies are available from our sales department).
6. This drawing is also available on our website www.kingspanenv.com



PLAN



SIDE ELEVATION



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END ELEVATION

KlargestorDetails
(Scale 1 : 25)

Scale 1:25 (at A1)

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT: PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

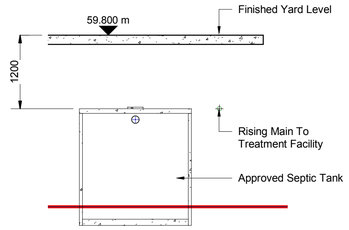
CLIENT: **KNOCKHARLEY LANDFILL Ltd.**

SHEET: DETAILS OF FULL RETENTION OIL INTERCEPTOR

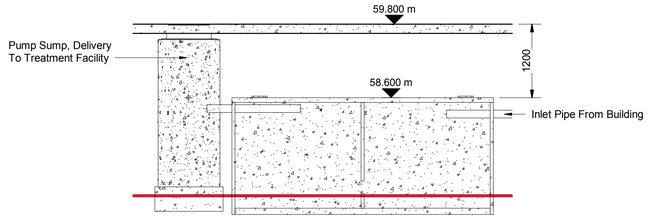
Date	Project number	Scale (@ A1)
10/04/17	LW14-821-01	1 : 25
Drawn by SK	Drawing Number	Rev
Checked by CC	LW14-821-01-P-1700-007	A

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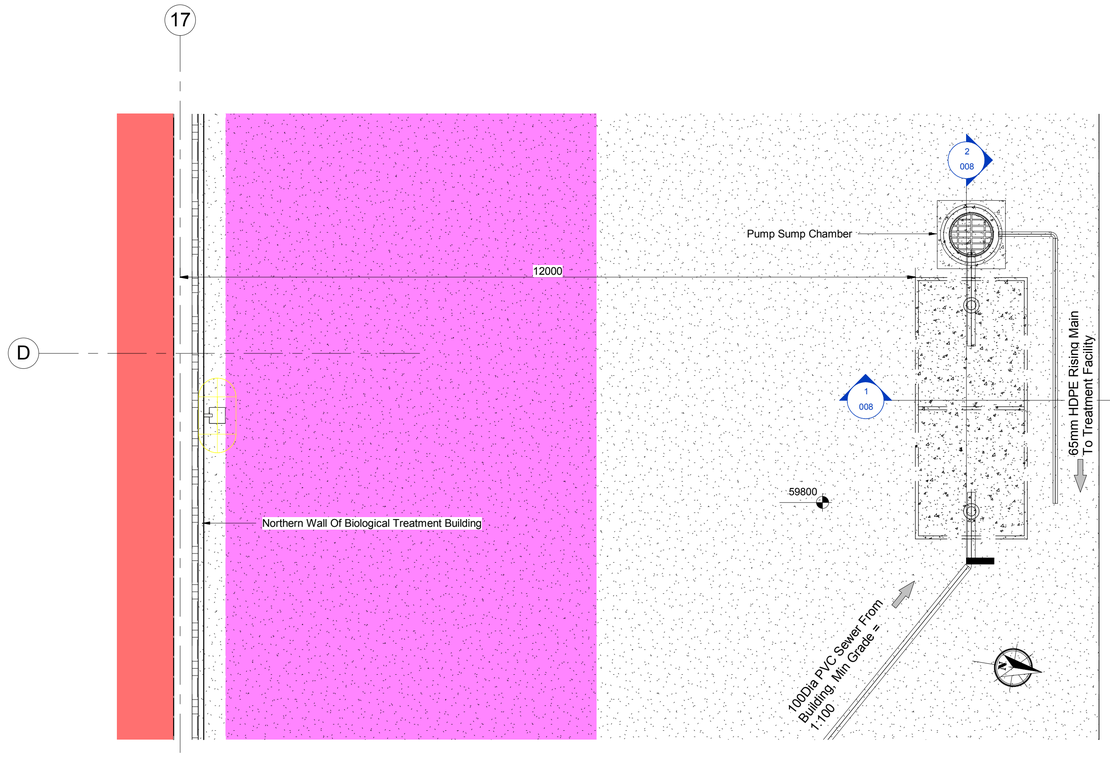
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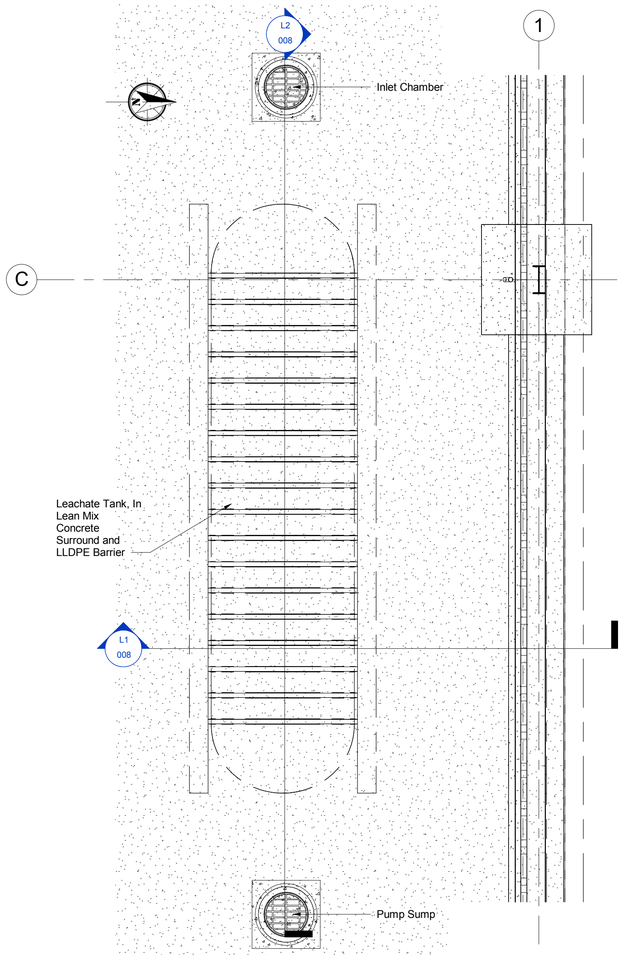
SECTION 1
(Scale 1 : 50)



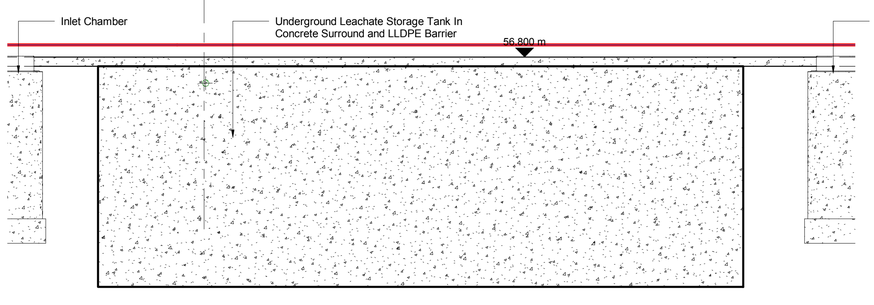
SECTION 2
(Scale 1 : 50)



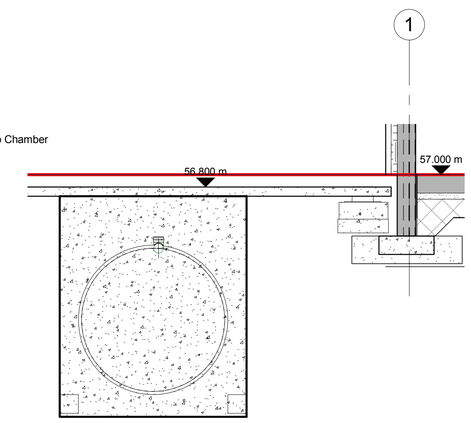
PLAN OF SEPTIC TANK
(Scale 1 : 50)



PLAN OF LEACHATE TANK
(Scale 1 : 50)



SECTION L2 - LEACHATE TANK
(Scale 1 : 50)



SECTION L1 - LEACHATE TANK
(Scale 1 : 50)

Legend
- Internal vehicle wash area.
- External vehicle wash area.

0m 0.5m 1m 1.5m 2m 2.5m 3m 3.5m 4m 4.5m 5m
Scale 1:50 (at A1)

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A	Issue For Planning Application	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT: PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT: **KNOCKHARLEY LANDFILL Ltd.**

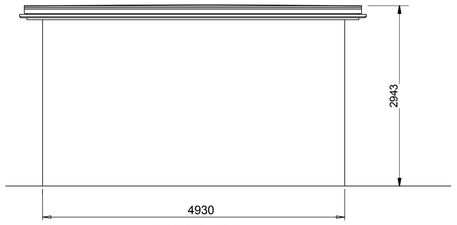
SHEET: PROPOSED BIOLOGICAL TREATMENT FACILITY LEACHATE & SEPTIC TANK DETAILS

Date 02/15/18	Project number LW14-821-01	Scale (@ A1) As indicated
Drawn by SK	Drawing Number LW14-821-01-P-1700-008	Rev A
Checked by CC		

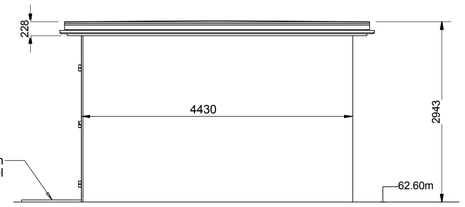
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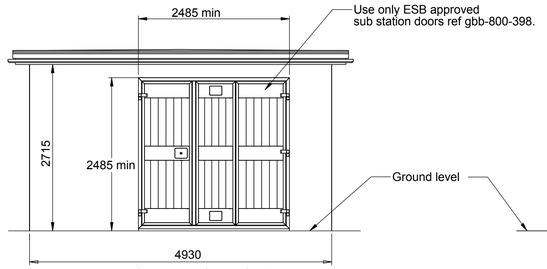
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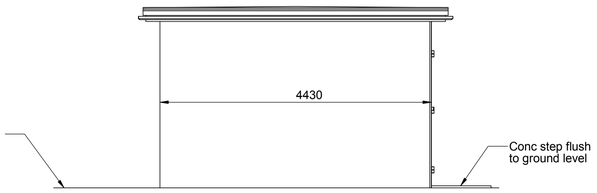
WEST ELEVATION



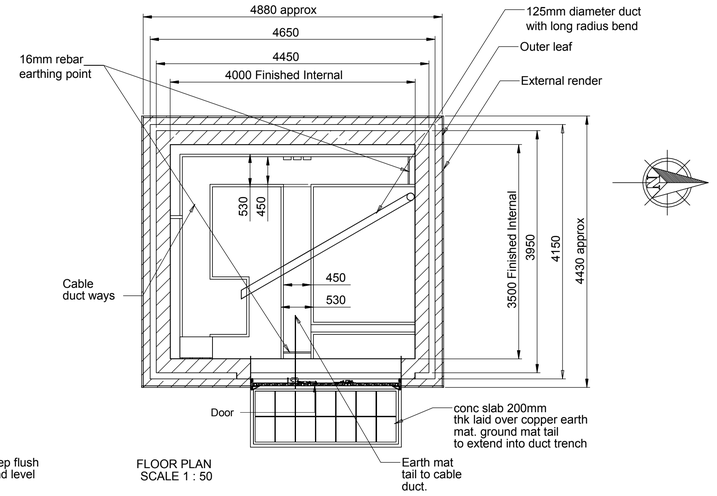
NORTH ELEVATION



EAST ELEVATION (FRONT)



SOUTH ELEVATION



FLOOR PLAN
SCALE 1 : 50

NOTES:

1. GENERAL.

   The following notes refer to the siting for the sub-station.

2. ACCESS.

   The substation building must be located at ground level. Vehicular access may be required at any time of day or night. The station will have an access corridor of at least 3m wide and 4m high. The maximum slope of access will be 1:10.

   Where necessary, a driveway 3m wide will be laid. The driveway will be 100mm of concrete on 150mm bed of well compacted hard core.

   If the sub-station is to be located in a car park, it may be necessary to install demountable bollards or paint yellow hatching on the ground to ensure that ESB can gain un-restricted access to the station.

3. SITING OF THE STATION WITHIN A BUILDING COMPLEX (An Incorporated MV Station).

   Where substation doors are more than 10m from main entrances and exits, air conditioning intakes, escape ways, oil pipes, gas pipes, fuel tanks or similar risks, then will be no more additional fire safety requirements.

   Where substation doors are less than 10m from main entrances and exits, air conditioning intakes, escape ways, oil pipes, gas pipes, fuel tanks or similar risks, then additional precautions shall be taken and written agreement must be obtained from the Fire Officer.
   If there are windows within a 3m radius of the substation door frame, the rooms, units or apartments served by the windows shall have an alarm activated by a detector in the substation.

4. DRAINAGE.

   Adequate below ground level drainage must be provided to ensure that the substation and ducts are not liable to flood.

NOTES cont... :

5. RAINWATER PIPE.

   For free standing stations a non metallic rain water pipe must be provided. Drainage pipes must not pass inside the sub-station.

6. DOORS.

   Special doors have been designed to include vertical louvres for ventilation. It must be possible to open the doors through 180 degrees. The doors are available in one standard size and the door ope must be made to accommodate these. The ope size must be 2485 X 2485mm -0mm / +20mm.

7. EARTHING.

   To ensure electrical safety, the re-inforcing steel incorporated in the sub-station floor will be earthed. The earthed reinforcing steel in the floor must not be connected to any other steelwork.

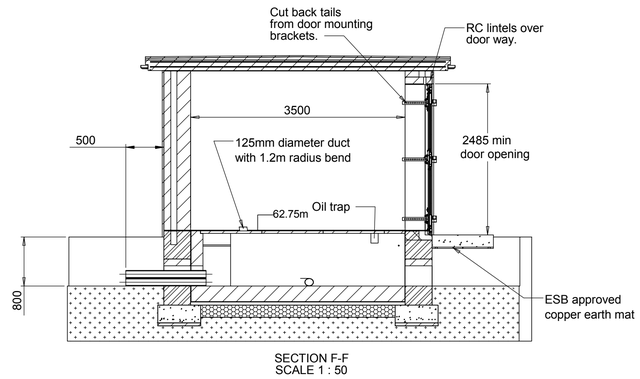
   Connection points and electrical test points are shown in Fig's A & B in sheet 2 of this drawing.

8. NO IMPEDIMENTS.

   There must be no impediments (beams, columns etc) within the substation. Pipes or other services not related to the electricity connection must not be routed through the substation.

A number of possible duct locations are shown on all four sides of the substation building. Details of cable trench layout shall be discussed with a local ESB representative to determine duct installation best suited to the particular site.

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SECTION F-F
SCALE 1 : 50

ESB SUB STATION DETAILS

(Scale 1 : 50)

0m 0.5m 1m 1.5m 2m 2.5m 3m 3.5m 4m 4.5m 5m

Scale 1:50 (at A1)

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A	Issue For Planning Application	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT: PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

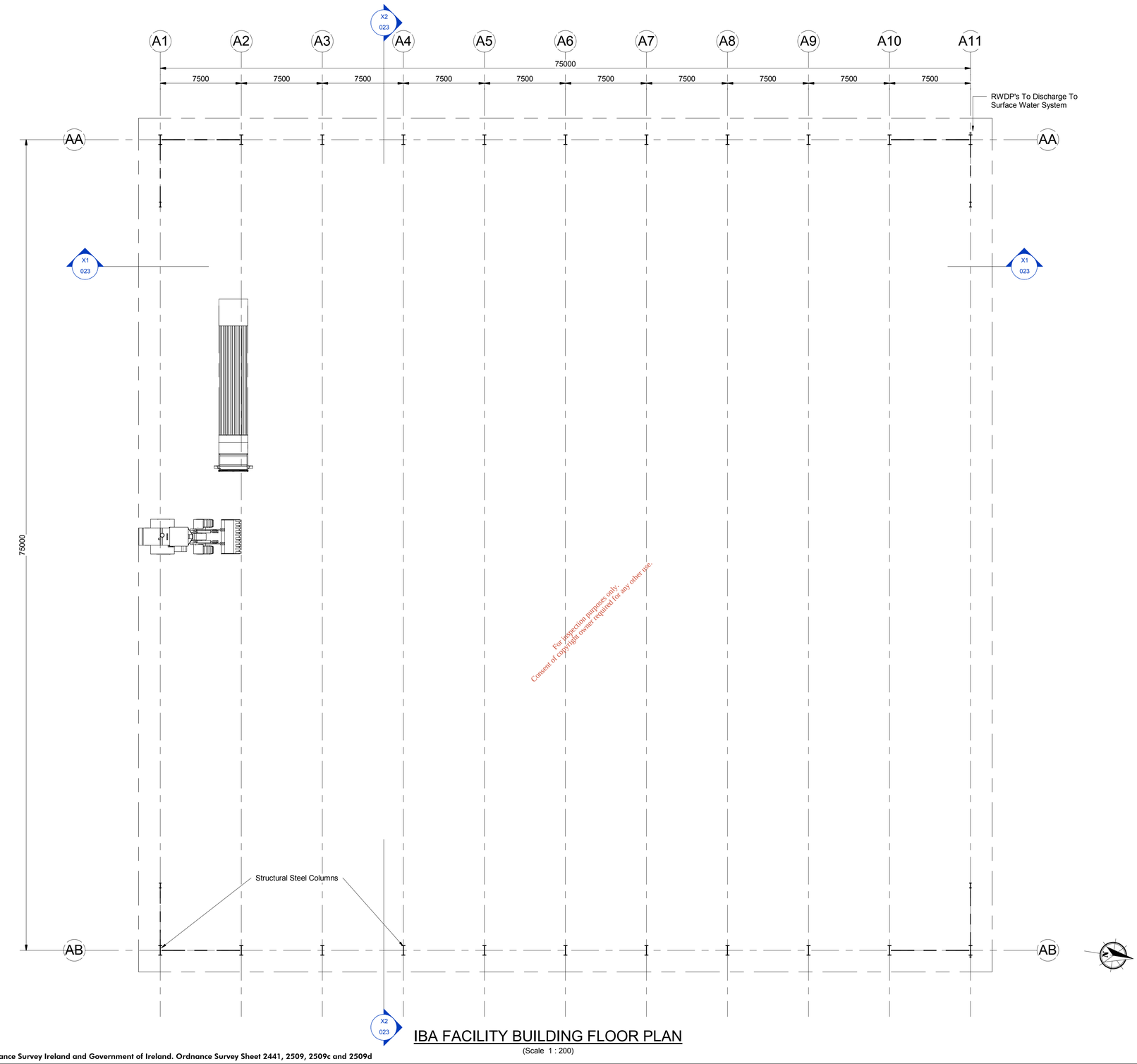
CLIENT: **KNOCKHARLEY LANDFILL Ltd.**

SHEET: ESB MV SUBSTATION DETAILS

Date	Project number	Scale (@ A1)
11/07/17	LW14-821-01	1 : 50
Drawn by SK	Drawing Number	Rev
Checked by CC	LW14-821-01-P-1700-010	A

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IBA FACILITY BUILDING FLOOR PLAN

(Scale 1 : 200)

Scale 1:200 (at A1)

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT

KNOCKHARLEY LANDFILL Ltd.

SHEET

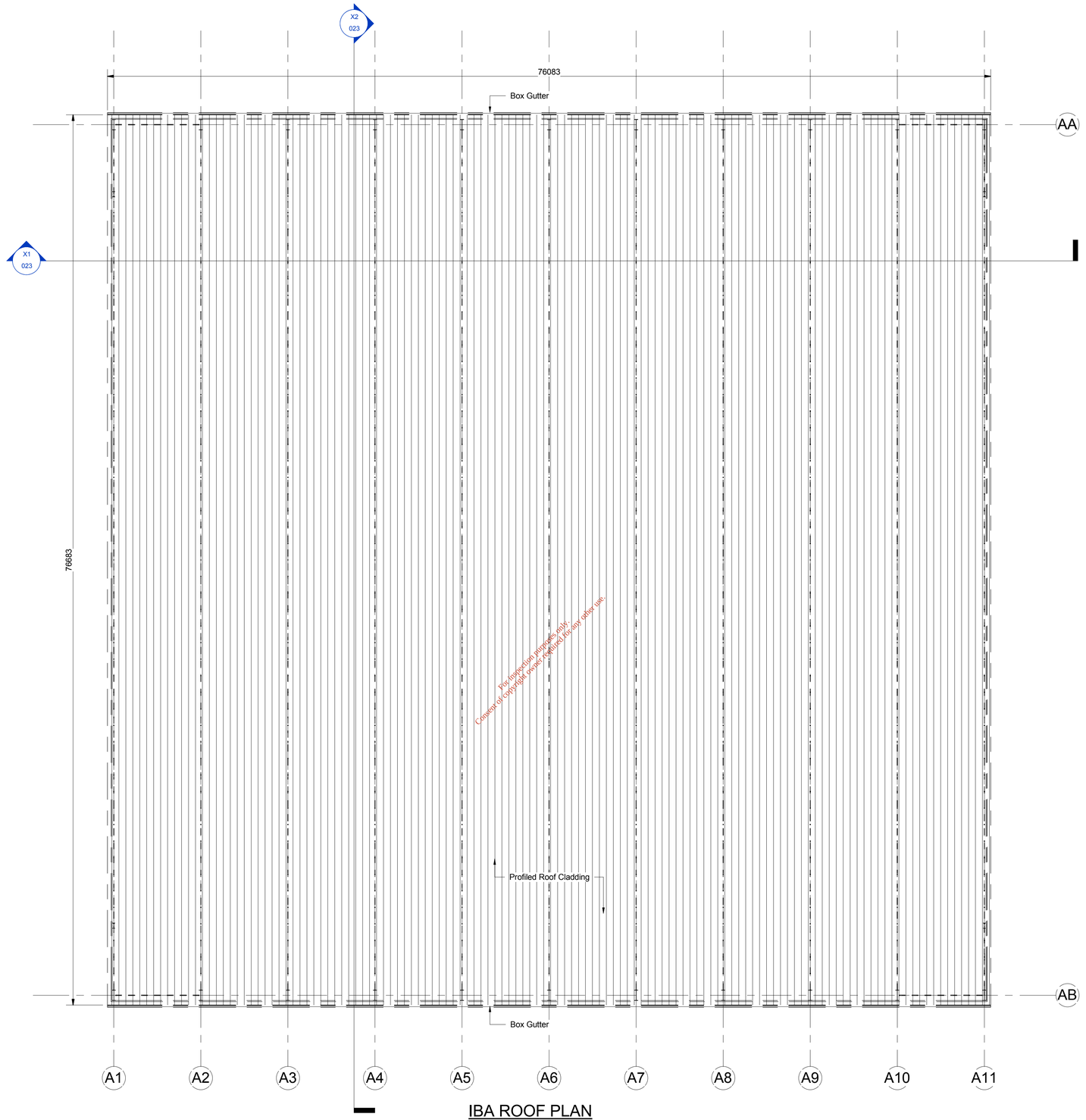
PROPOSED IBA FACILITY BUILDING FLOOR PLAN

Date	Project number	Scale (@ A1)
02/23/18	LW14-821-01	1 : 200
Drawn by SK	Drawing Number	Rev
Checked by CC	LW14-821-01-P-1700-021	A

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IBA ROOF PLAN

(Scale 1 : 200)

0m 2m 4m 6m 8m 10m 12m 14m 16m 18m 20m

Scale 1:200 (at A1)

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Rev.	Description	App By	Date
A	Issue For Planning Application	BG	10.07.18

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT

PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT

KNOCKHARLEY LANDFILL Ltd.

SHEET

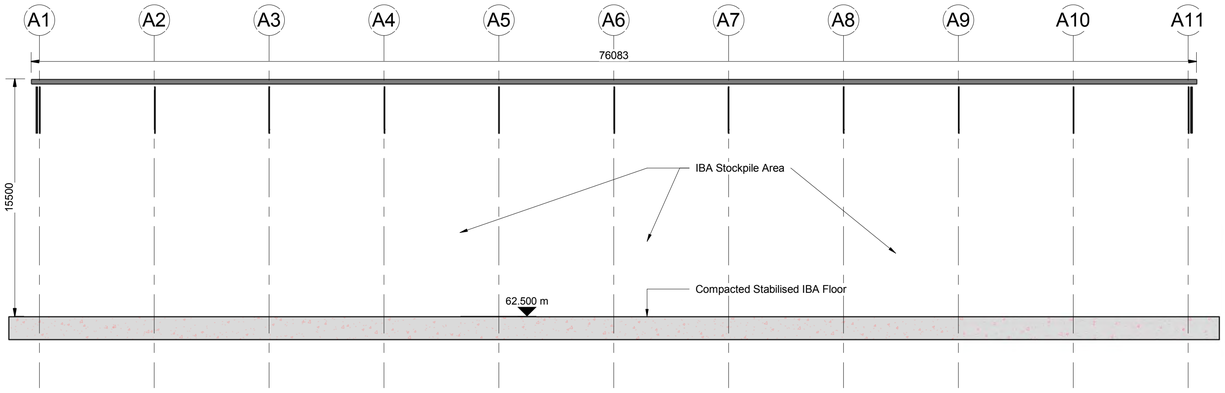
PROPOSED IBA FACILITY BUILDING ROOF PLAN

Date	Project number	Scale (@ A1)
02/26/18	LW14-821-01	1 : 200
Drawn by SK	**Drawing Number**	**Rev**
Checked by CC	LW14-821-01-P-1700-022	A

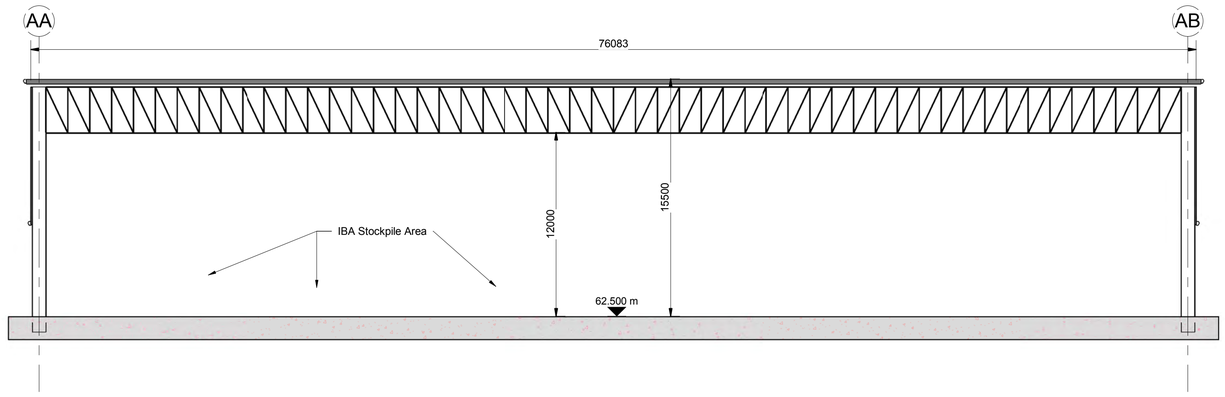
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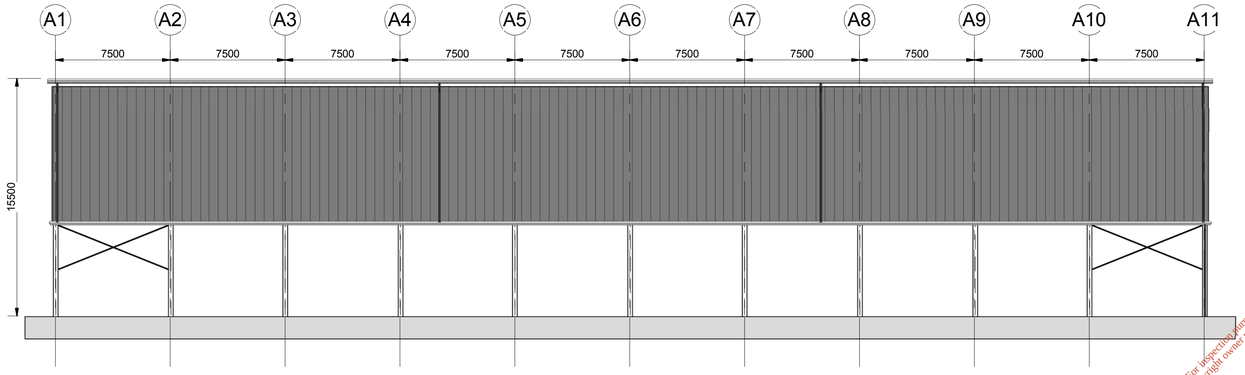
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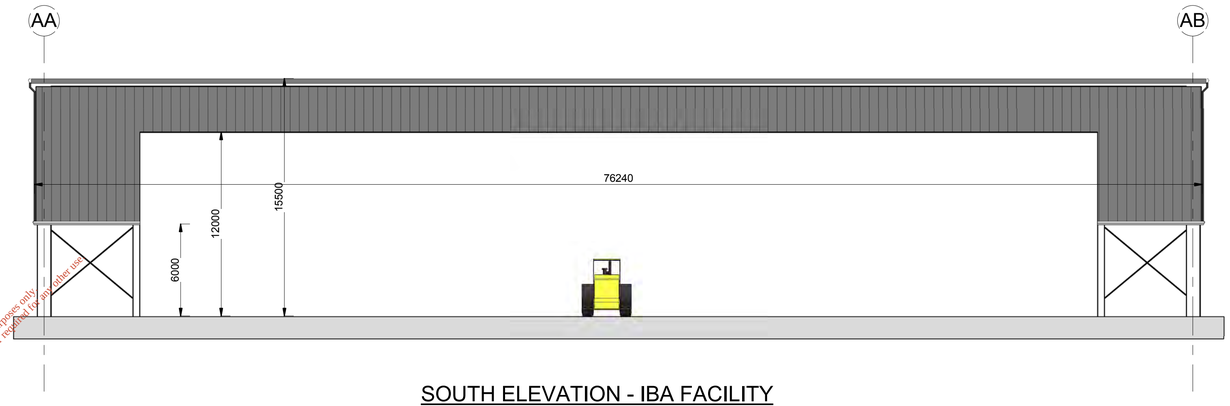
X1 SECTION A-A THROUGH IBA BUILDING
(1 : 200)



X2 SECTION B-B THROUGH IBA BUILDING
(1 : 200)

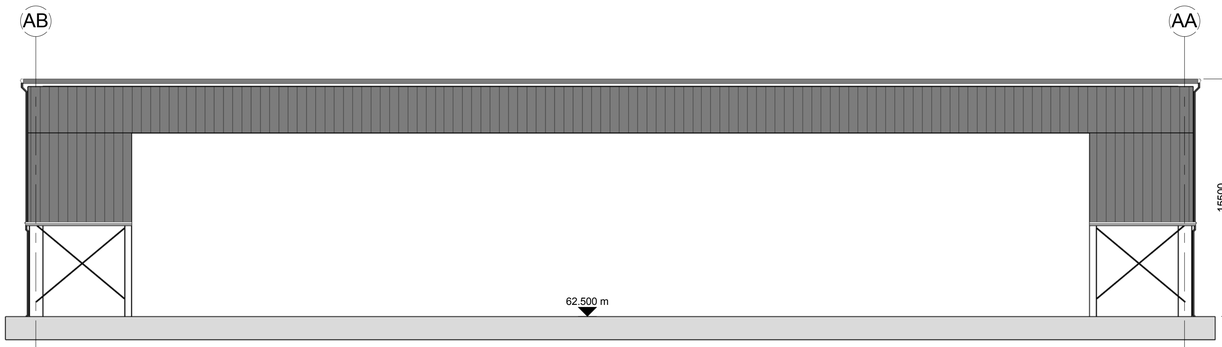


EAST ELEVATION - IBA FACILITY
(Scale 1 : 200)

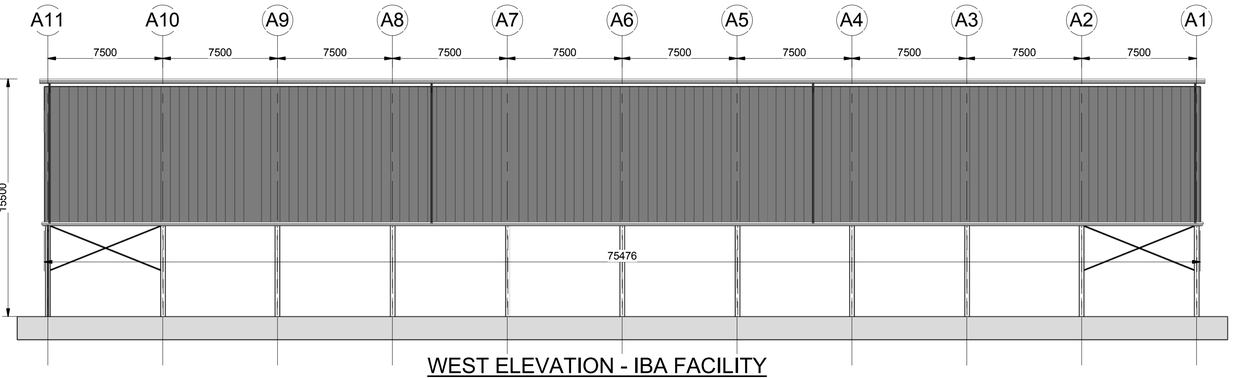


SOUTH ELEVATION - IBA FACILITY
(Scale 1 : 200)

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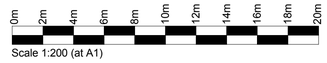
NORTH ELEVATION - IBA FACILITY
(Scale 1 : 200)



WEST ELEVATION - IBA FACILITY
(Scale 1 : 200)

EXTERNAL FINISH

1. WALLS - VERTICAL PROFILED INSULATED METAL CLADDING
2. ROOF - PROFILED INSULATED METAL ROOF PANEL SYSTEM
3. MUSHROOM COLOUR (RAL 1006020)



Scale 1:200 (at A1)

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CODE	STATUS	SUITABILITY DESCRIPTION	PURPOSE OF ISSUE
			EIAR

PROJECT
PROPOSED DEVELOPMENT AT KNOCKHARLEY LANDFILL

CLIENT
KNOCKHARLEY LANDFILL Ltd.

SHEET
PROPOSED IBA FACILITY BUILDING SECTION AND ELEVATIONS

Date	Project number	Scale (@ A1)
02/26/18	LW14-821-01	1 : 200

Drawn by	Drawing Number	Rev
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