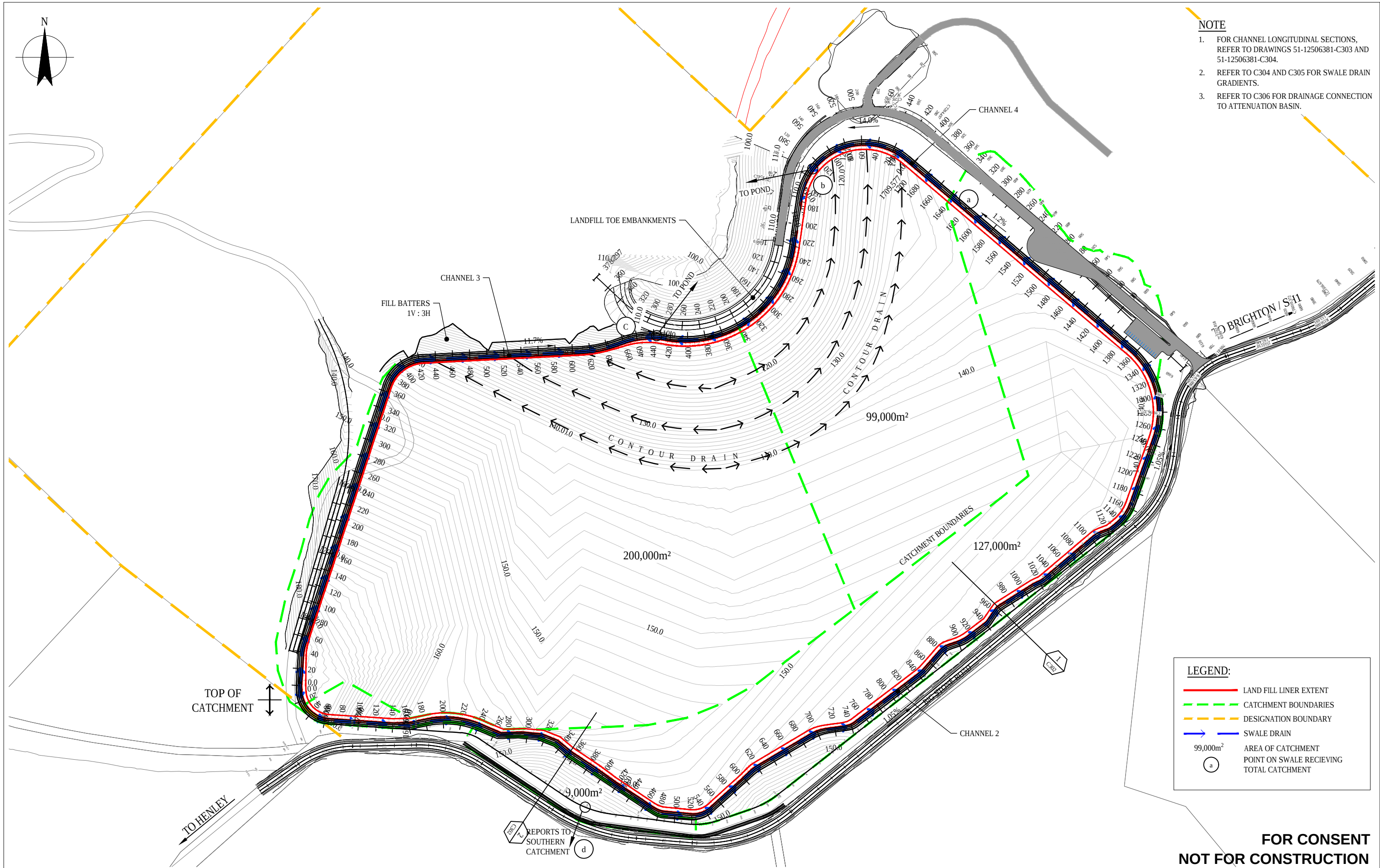




							 SCALE 1:2000 AT ORIGINAL SIZE		 kaunihera a-rohe o ōtepoti		 Level 3, GHD Centre 27 Napier Street, Freemans Bay, Auckland 1011 New Zealand T 64 9 370 8000 F 64 9 370 8001 E akimail@ghd.com W www.ghd.com		DO NOT SCALE		Drawn R.KARAVAKI		Designer R.COOMBE		Client Project Title	DUNEDIN CITY COUNCIL SMOOTH HILL LANDFILL SWALE DRAIN AND CATCHMENT	
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1. FOR GENERAL ARRANGEMENT PLAN, REFER TO DRAWING 51-12506381-C110.
2. REFER PLAN C303 FOR CHAINAGE LOCATIONS.



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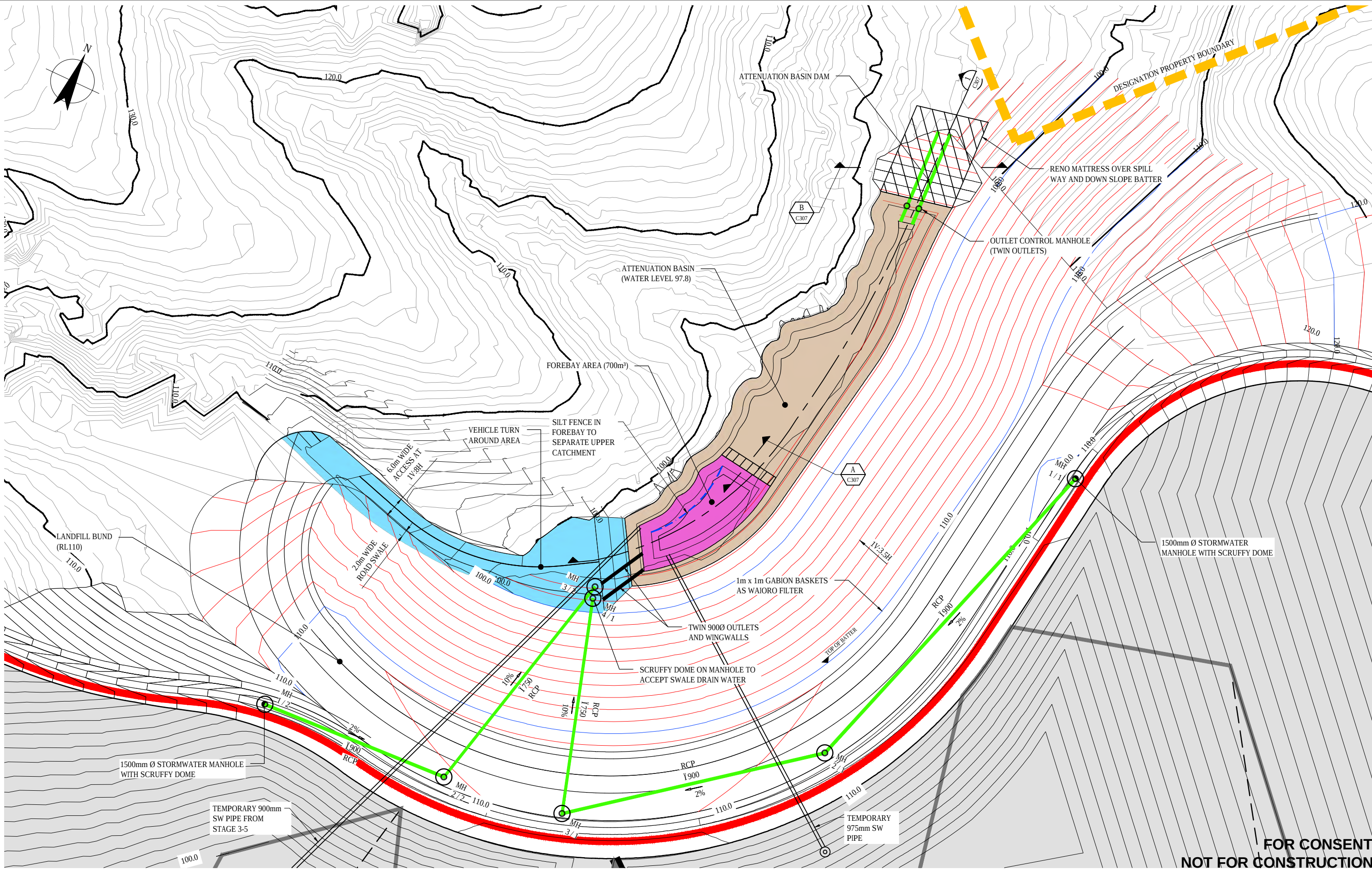
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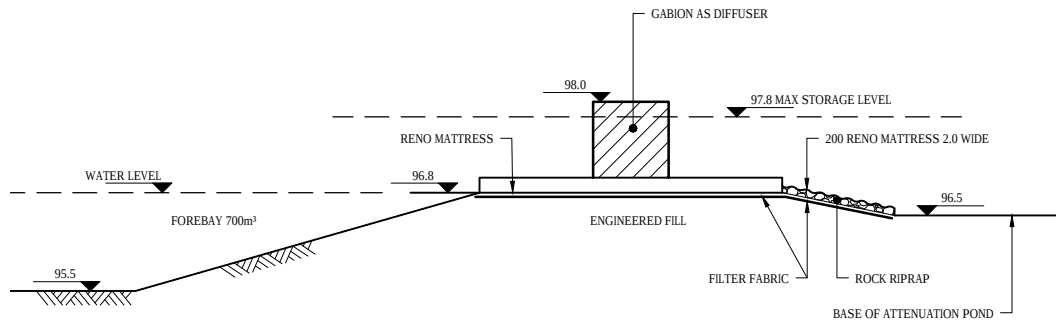
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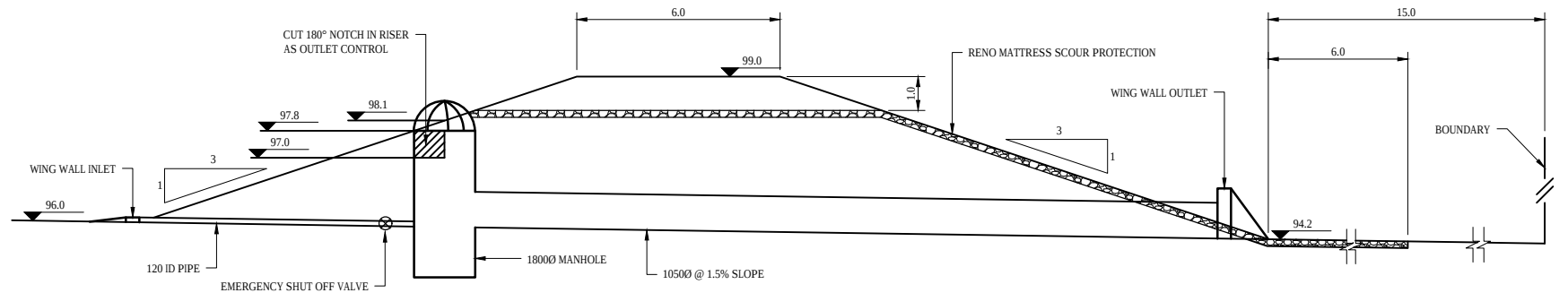


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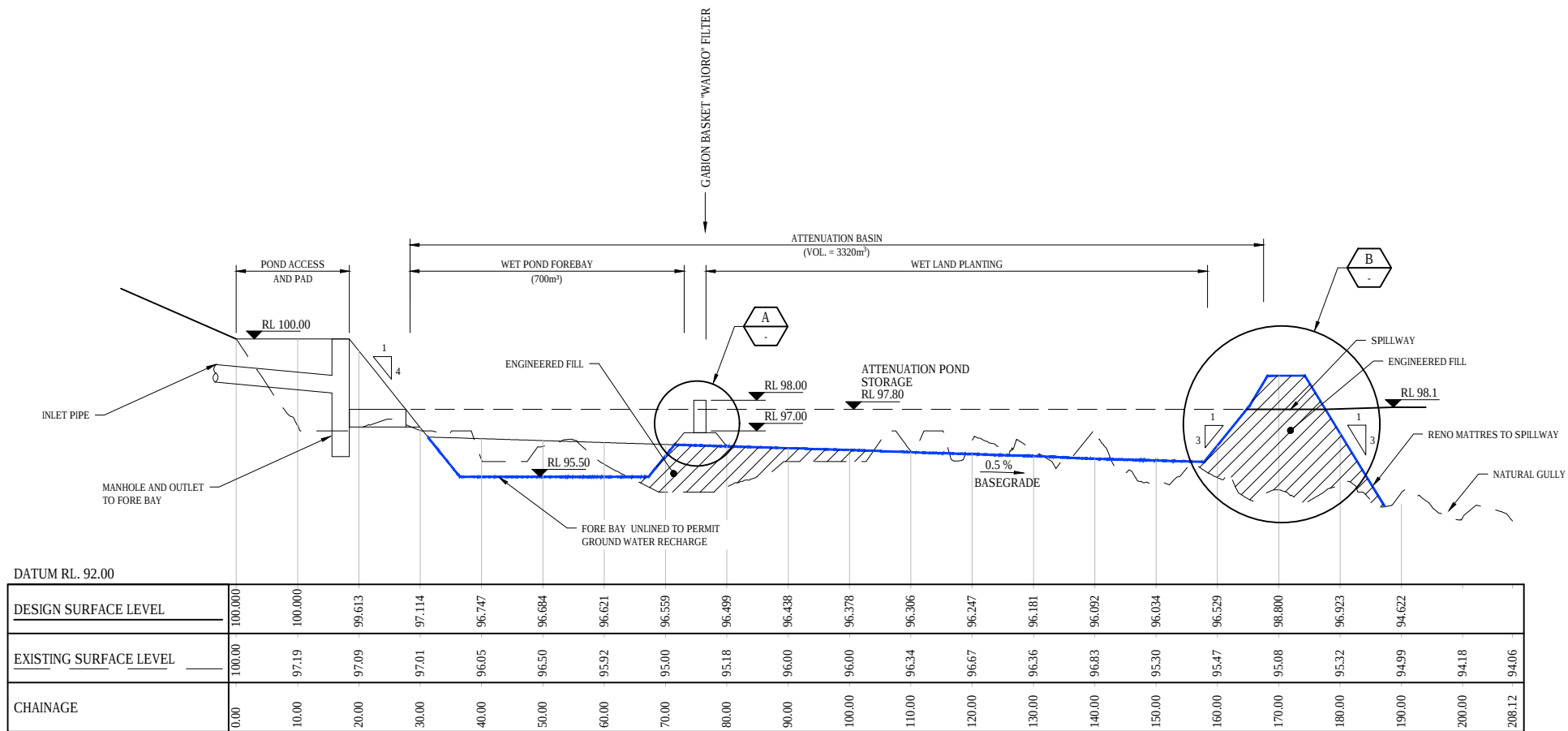


A WAIOERO FILTER DETAIL
C306 SCALE 1 : 50



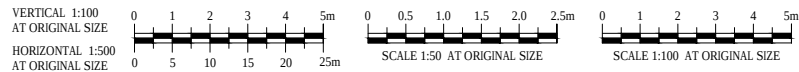
B LOWER DAM OUTLET DETAIL
C306 SCALE 1 : 100

NOTE: OUTLET STRUCTURE CONSISTS OF 2x COMPLETE OUTLETS



LONGITUDINAL SECTION - SECT01

HORZ 1:500 VERT 1:100

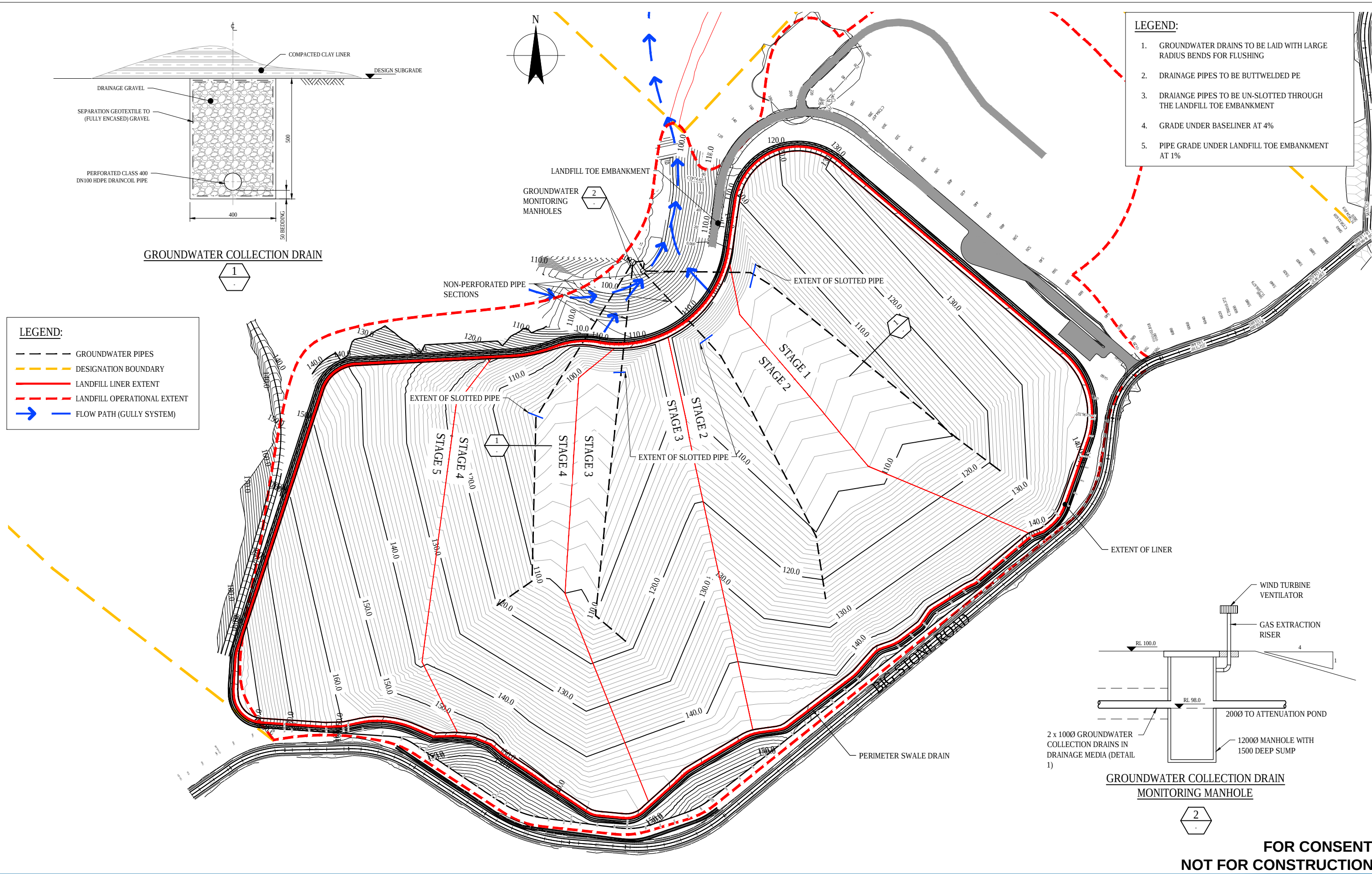


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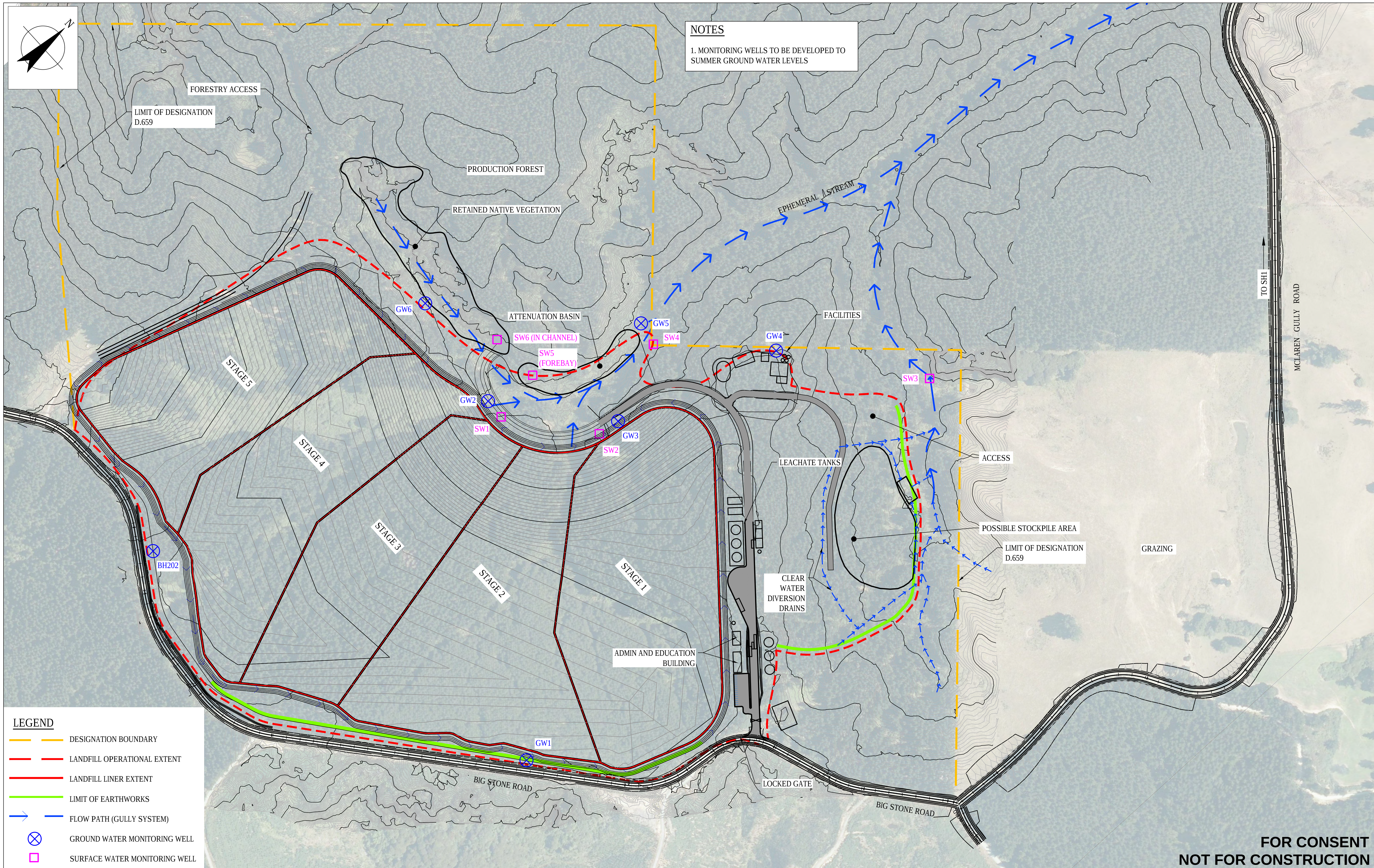
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
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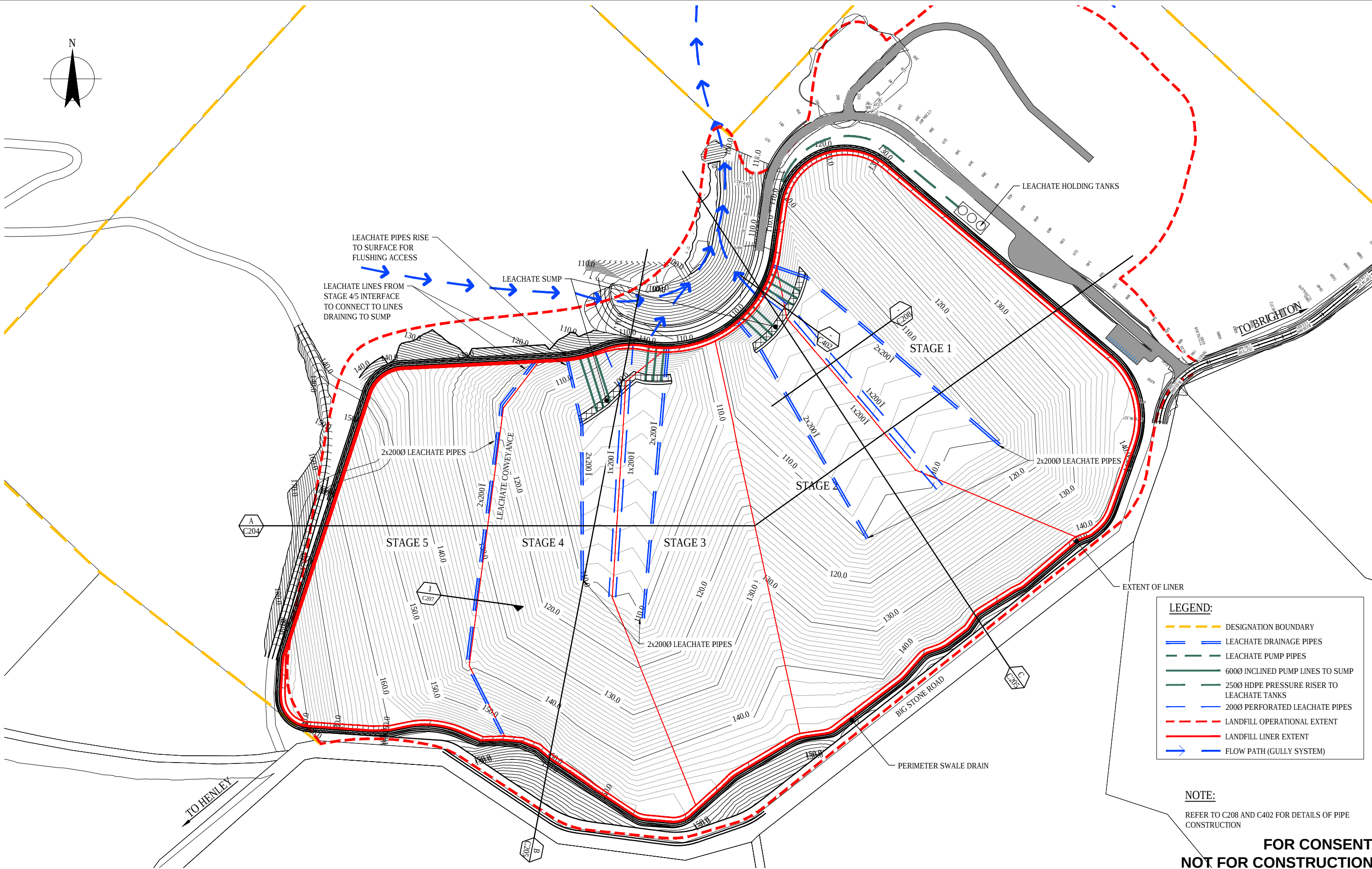
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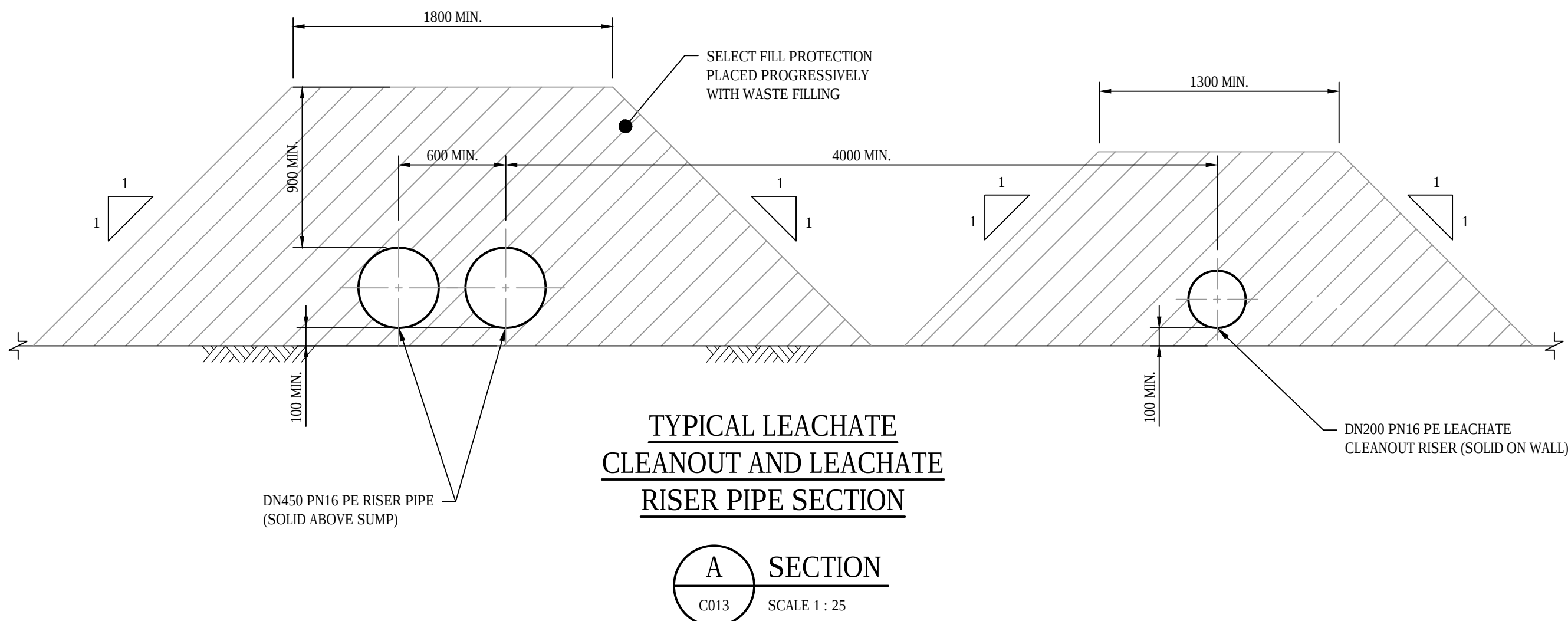
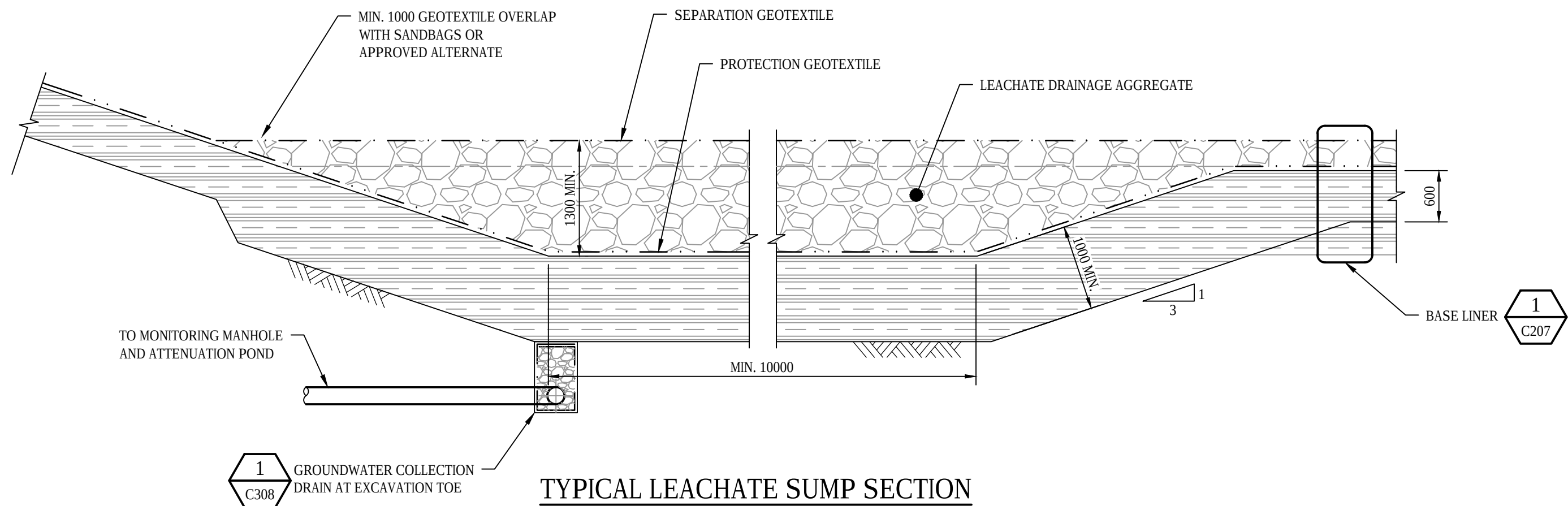
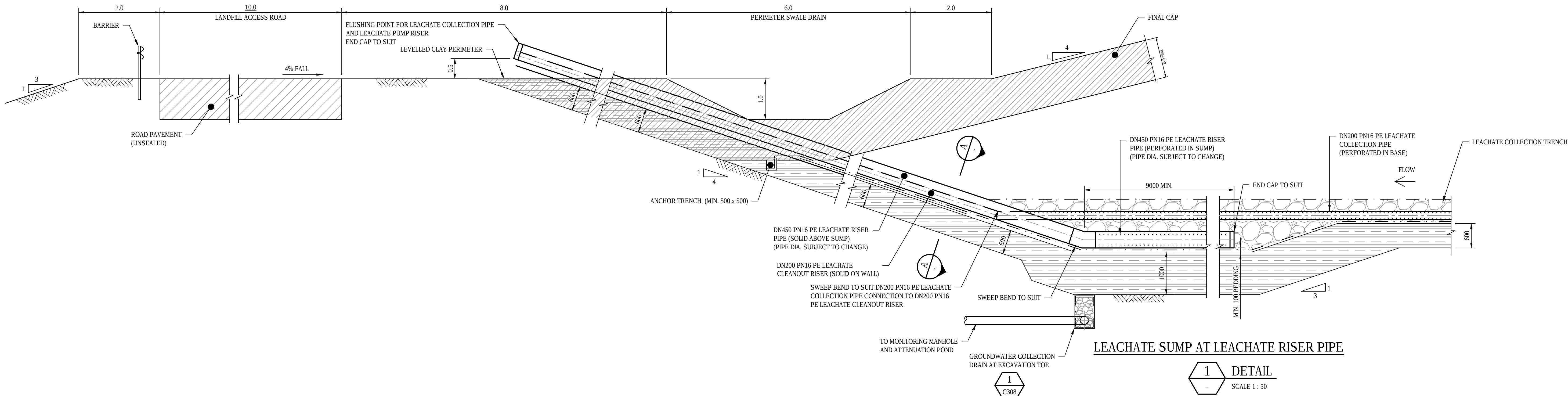
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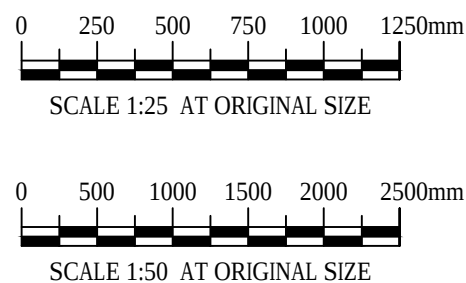


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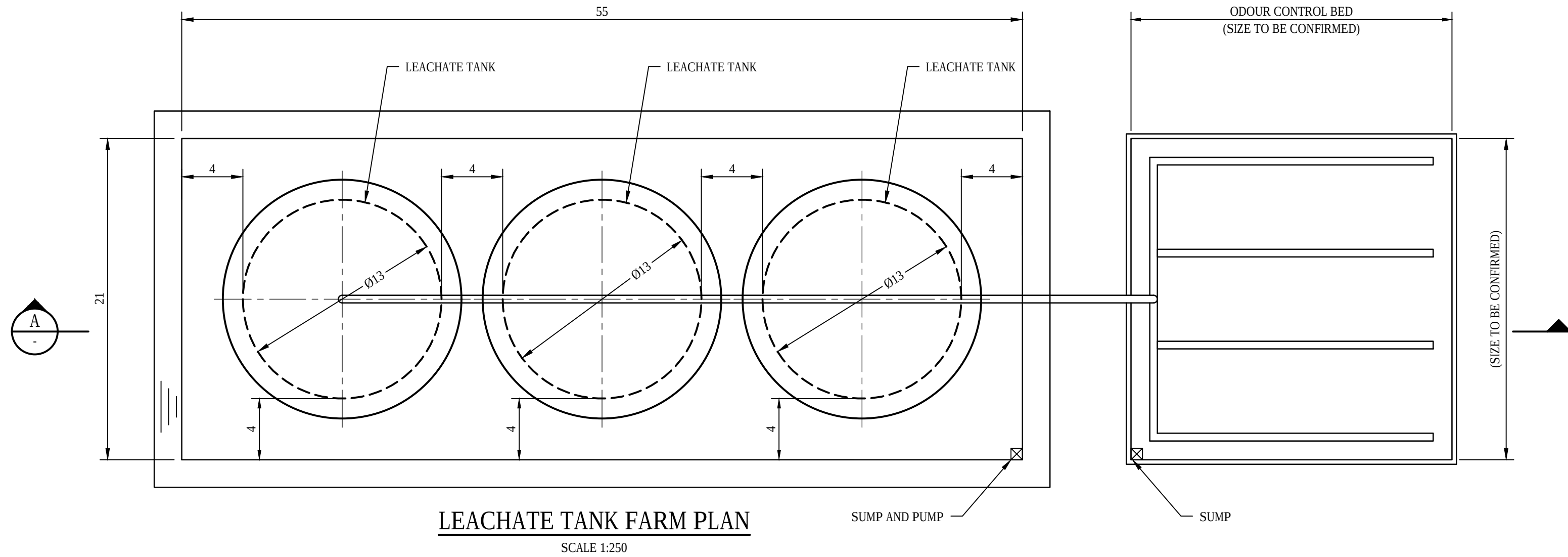
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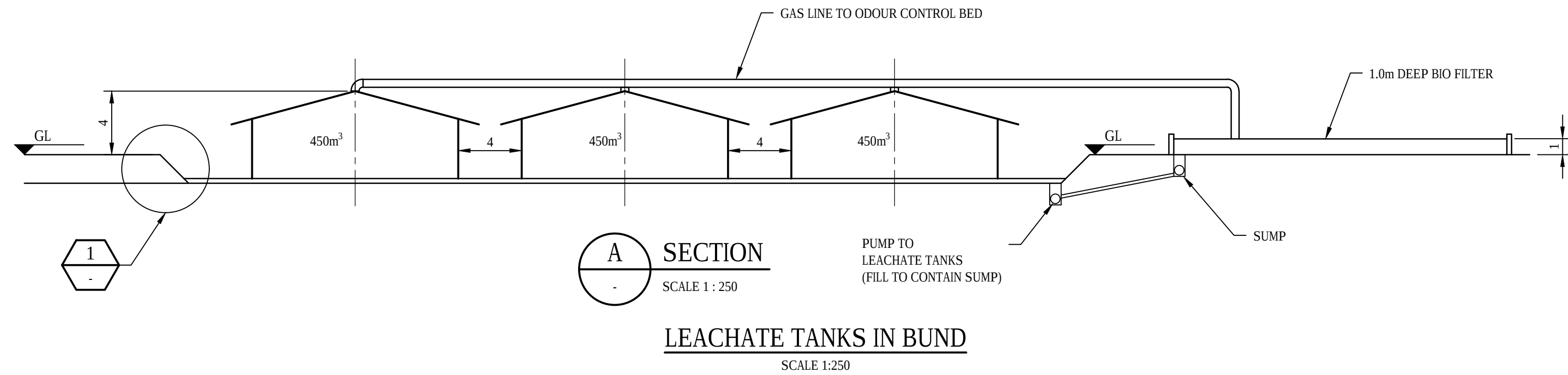
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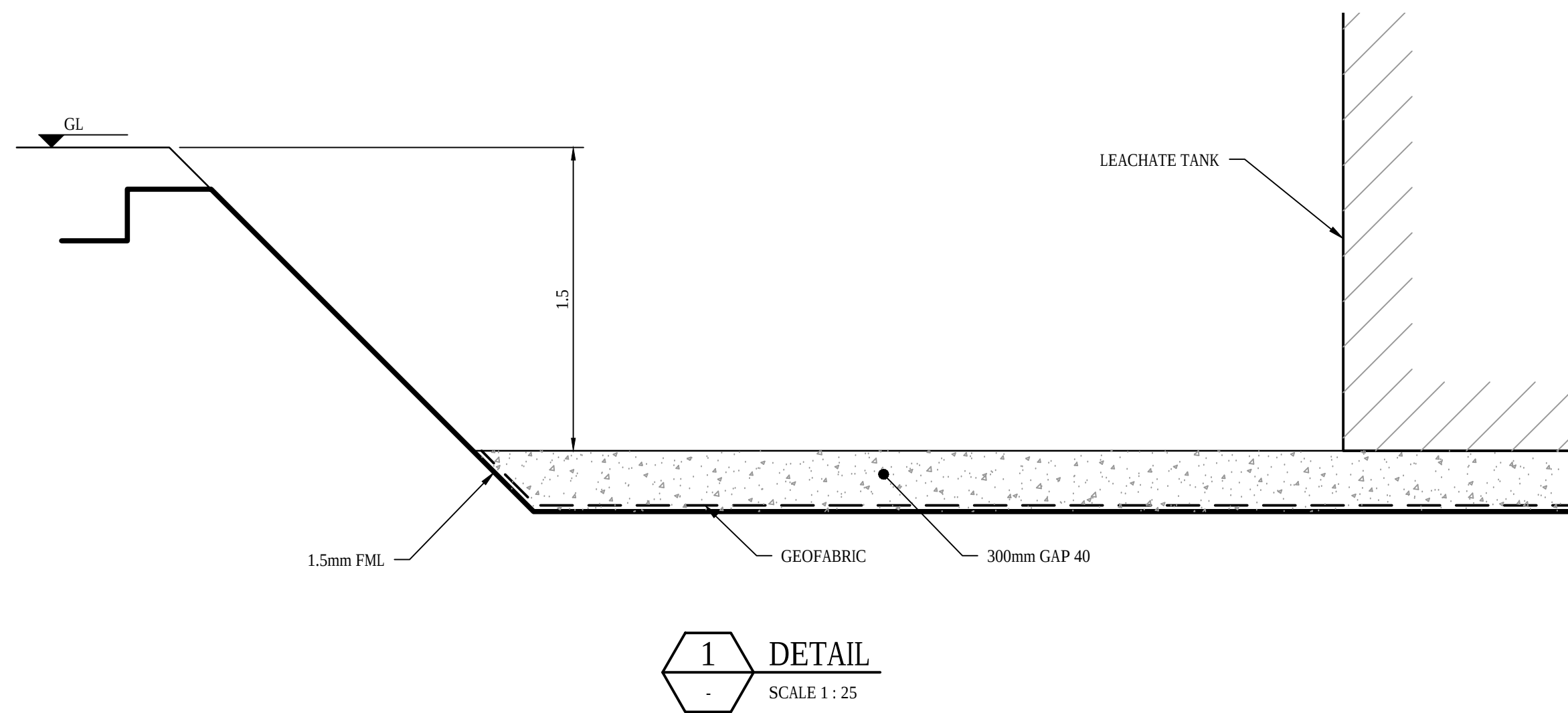
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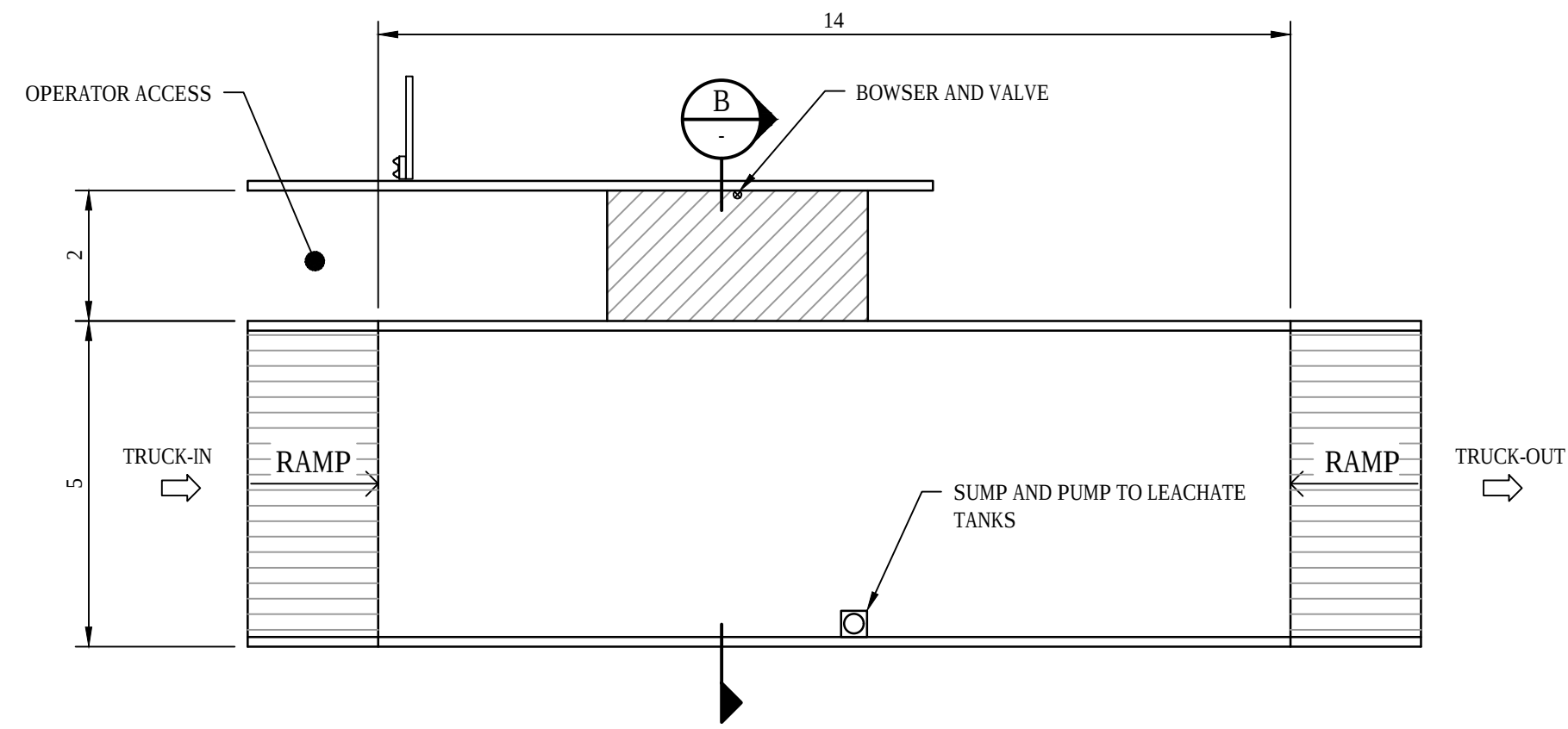
LEACHATE TANK FARM PLAN
SCALE 1:250



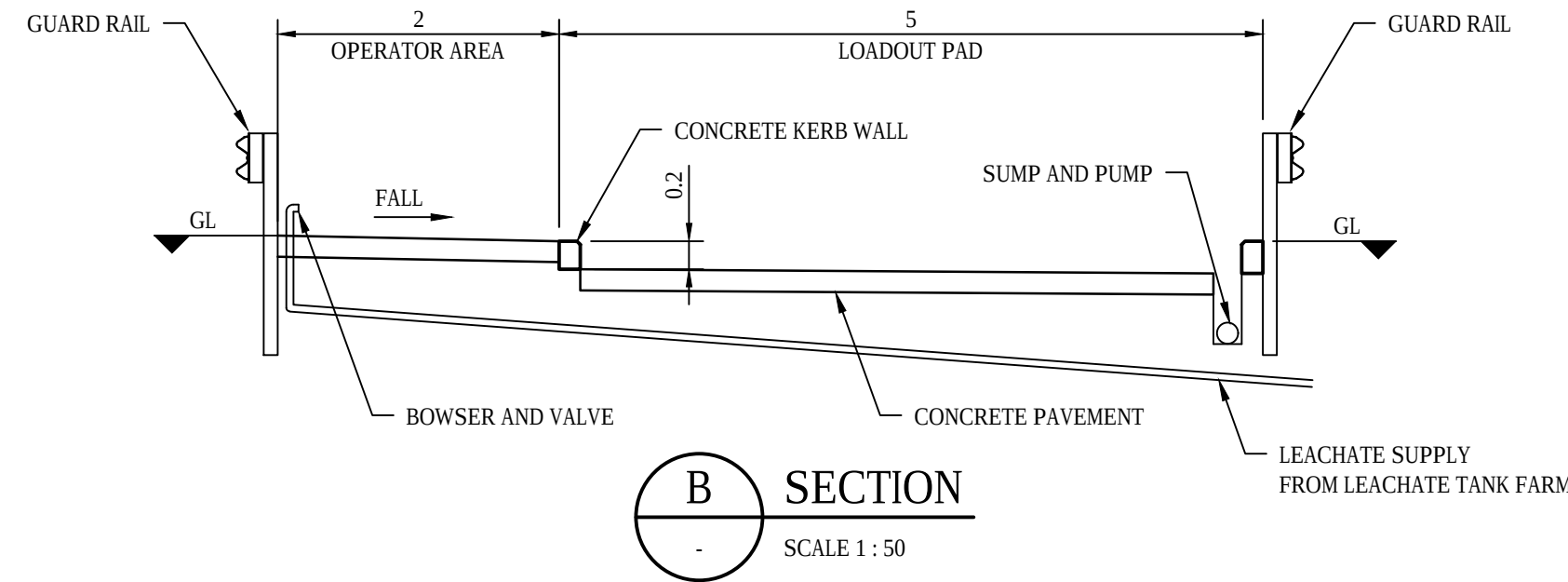
SECTION
SCALE 1:250
LEACHATE TANKS IN BUND
SCALE 1:250



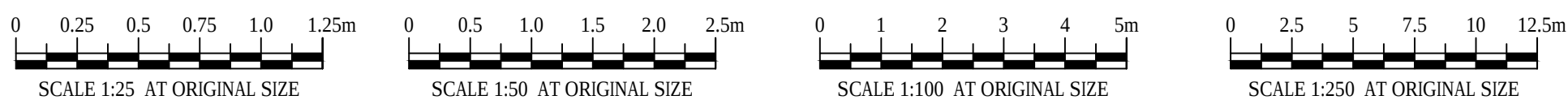
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SCALE 1:25
DETAIL



LEACHATE LOAD OUT BAY PLAN
SCALE 1:100



B
SCALE 1:50
SECTION



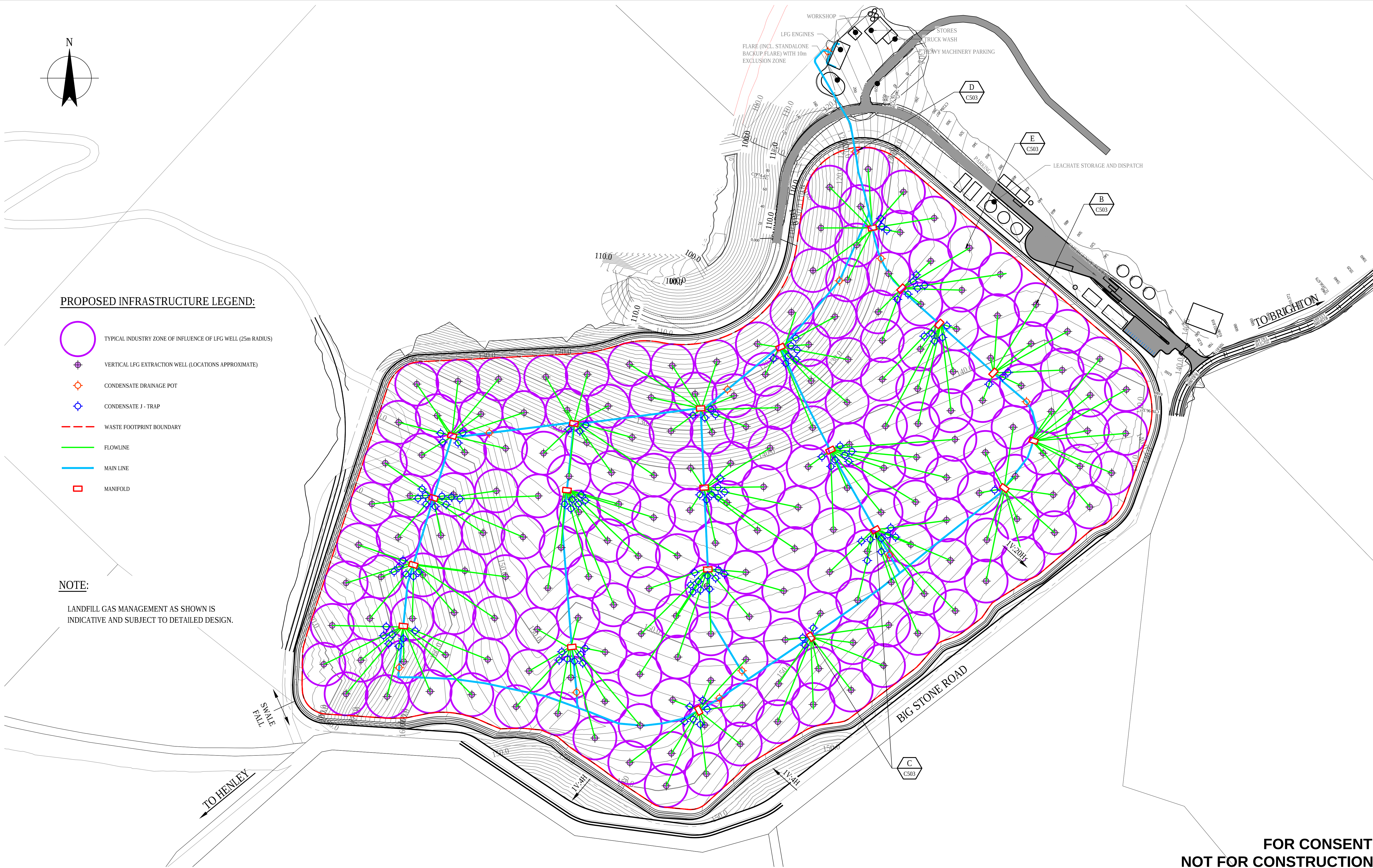
FOR CONSENT
NOT FOR CONSTRUCTION

1	FOR CONSENT		RK	RC*	SD*
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director
					Date



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		Approved (Project Director)		S.DOUGLAS*		Title		LEACHATE TANK FARM AND LOAD OUT BAY	
		Date		14.08.2020					
		Scale AS SHOWN		This Drawing must not be used for Construction unless signed as Approved		Original Size			
						A1		Drawing No: 51-12506381-01-C403	
								Rev: 1	



PROPOSED INFRASTRUCTURE LEGEND:

- TYPICAL INDUSTRY ZONE OF INFLUENCE OF LFG WELL (25m RADIUS)
- VERTICAL LFG EXTRACTION WELL (LOCATIONS APPROXIMATE)
- CONDENSATE DRAINAGE POT
- CONDENSATE J - TRAP
- WASTE FOOTPRINT BOUNDARY
- FLOWLINE
- MAIN LINE
- MANIFOLD

NOTE:
LANDFILL GAS MANAGEMENT AS SHOWN IS
INDICATIVE AND SUBJECT TO DETAILED DESIGN.

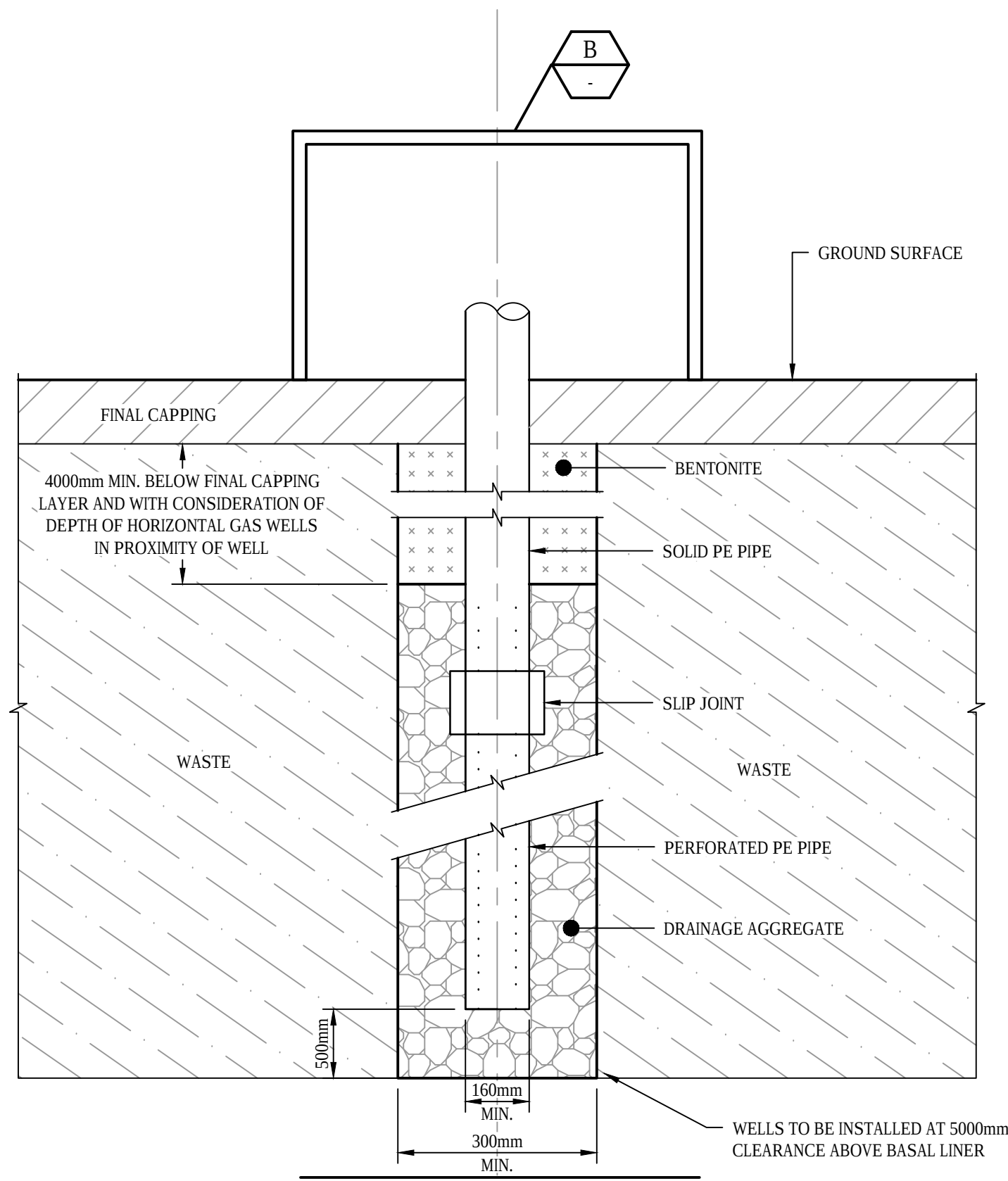
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NOT FOR CONSTRUCTION

1	FOR CONSENT		RK	RC*	SD*	14.08.20
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date



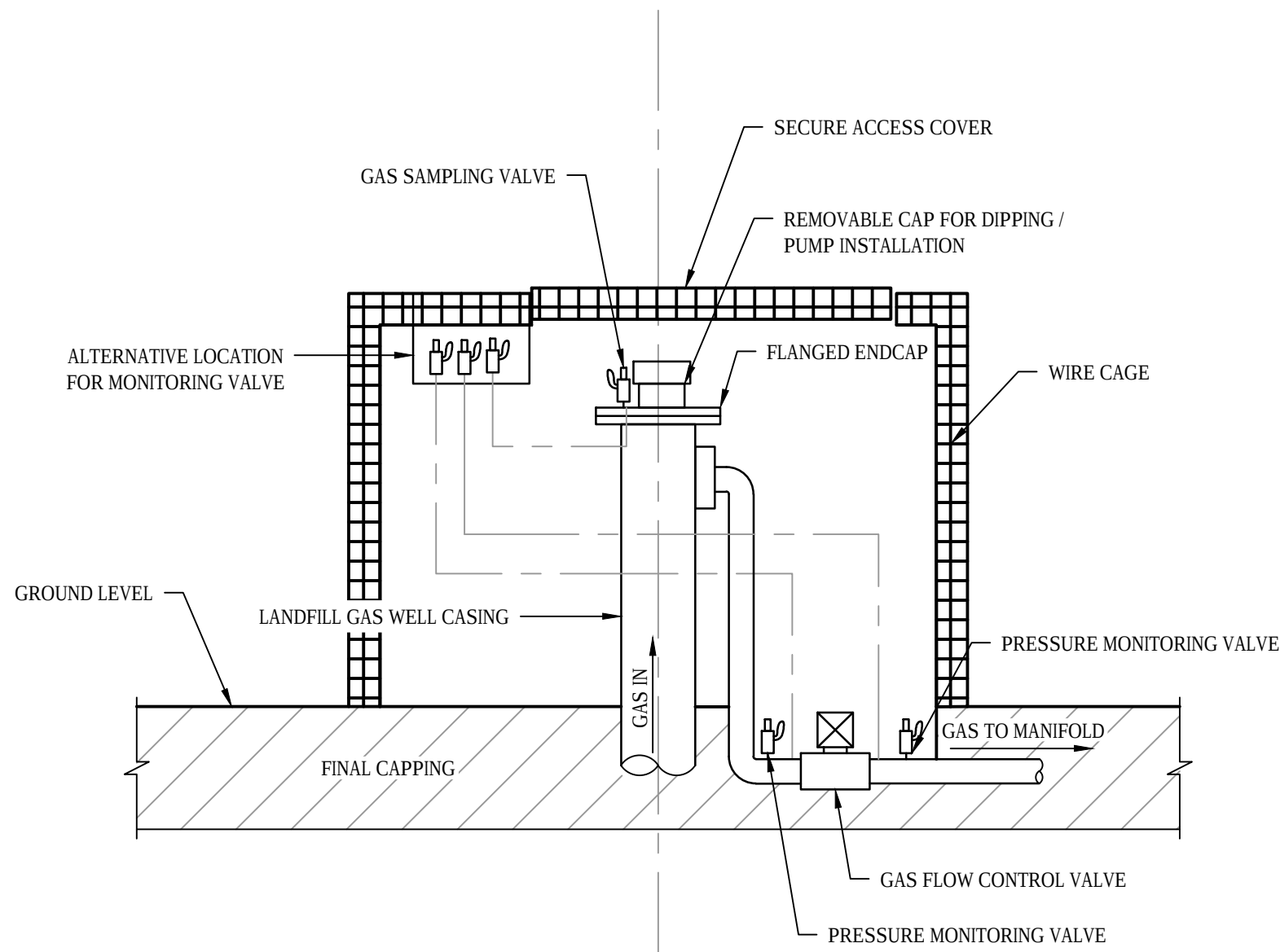
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	Approved (Project Director) S.DOUGLAS*	
	Date 14.08.2020	
	Scale 1 : 2000	This Drawing must not be used for Construction unless signed as Approved

Client	DUNEDIN CITY COUNCIL
Project	SMOOTH HILL LANDFILL
Title	LANDFILL GAS MANAGEMENT CONCEPTUAL SYSTEM LAYOUT
Original Size	A1
Drawing No:	12506381-01-C501
Rev:	1



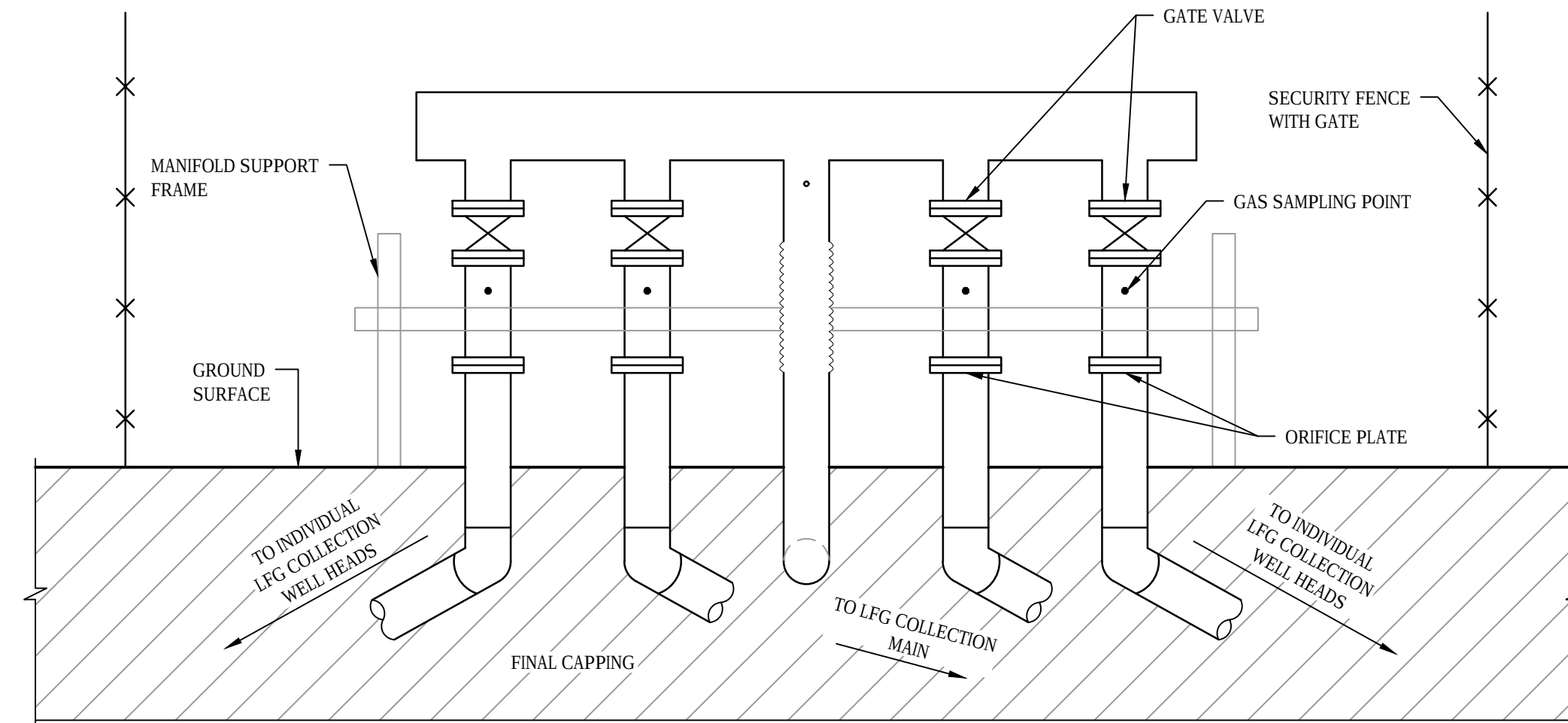
A DETAIL
C501 N.T.S.

LANDFILL GAS COLLECTION WELL (VERTICAL) (TYP.)



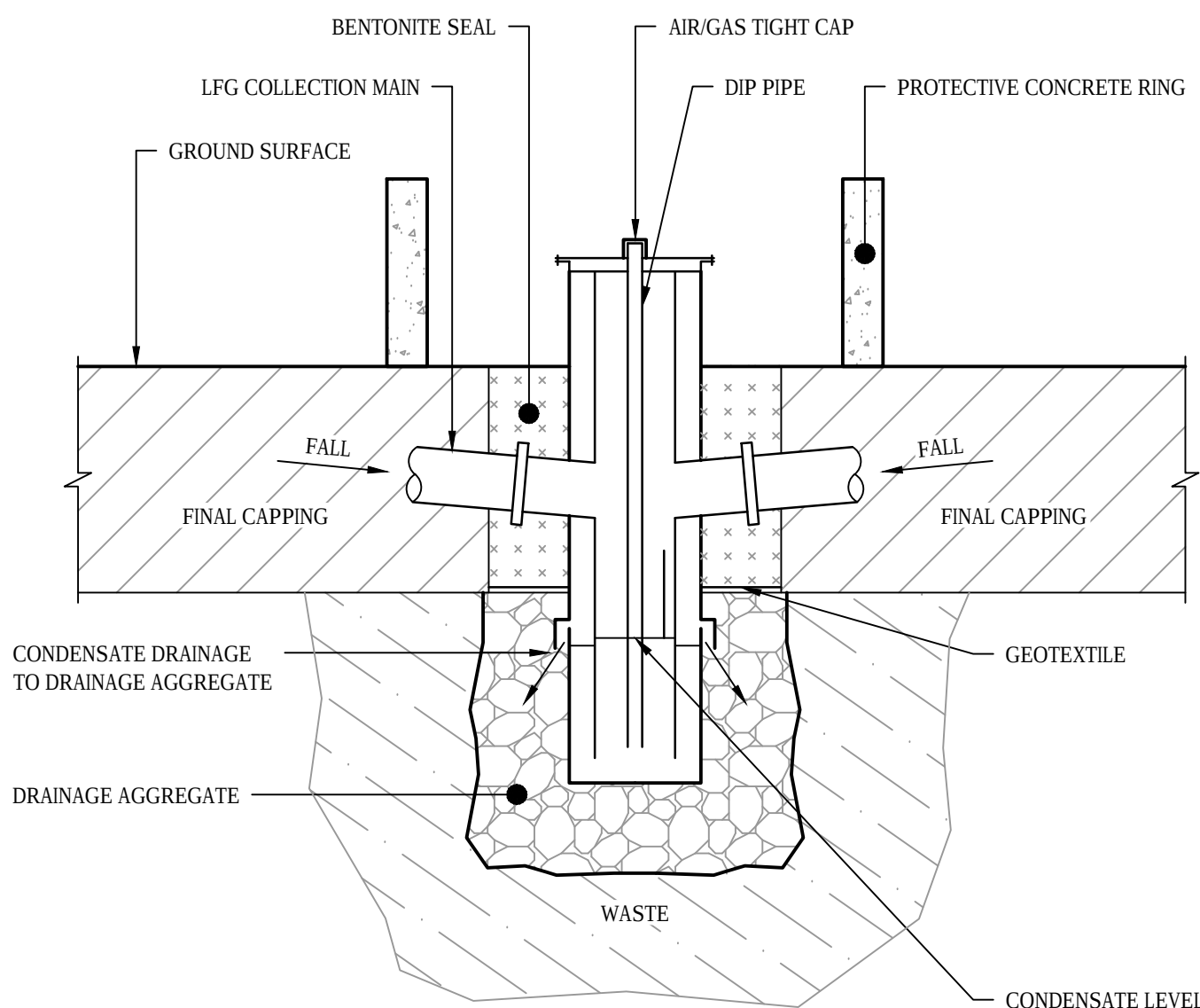
B DETAIL
C501 N.T.S.

LANDFILL GAS COLLECTION WELL HEAD (TYP.)



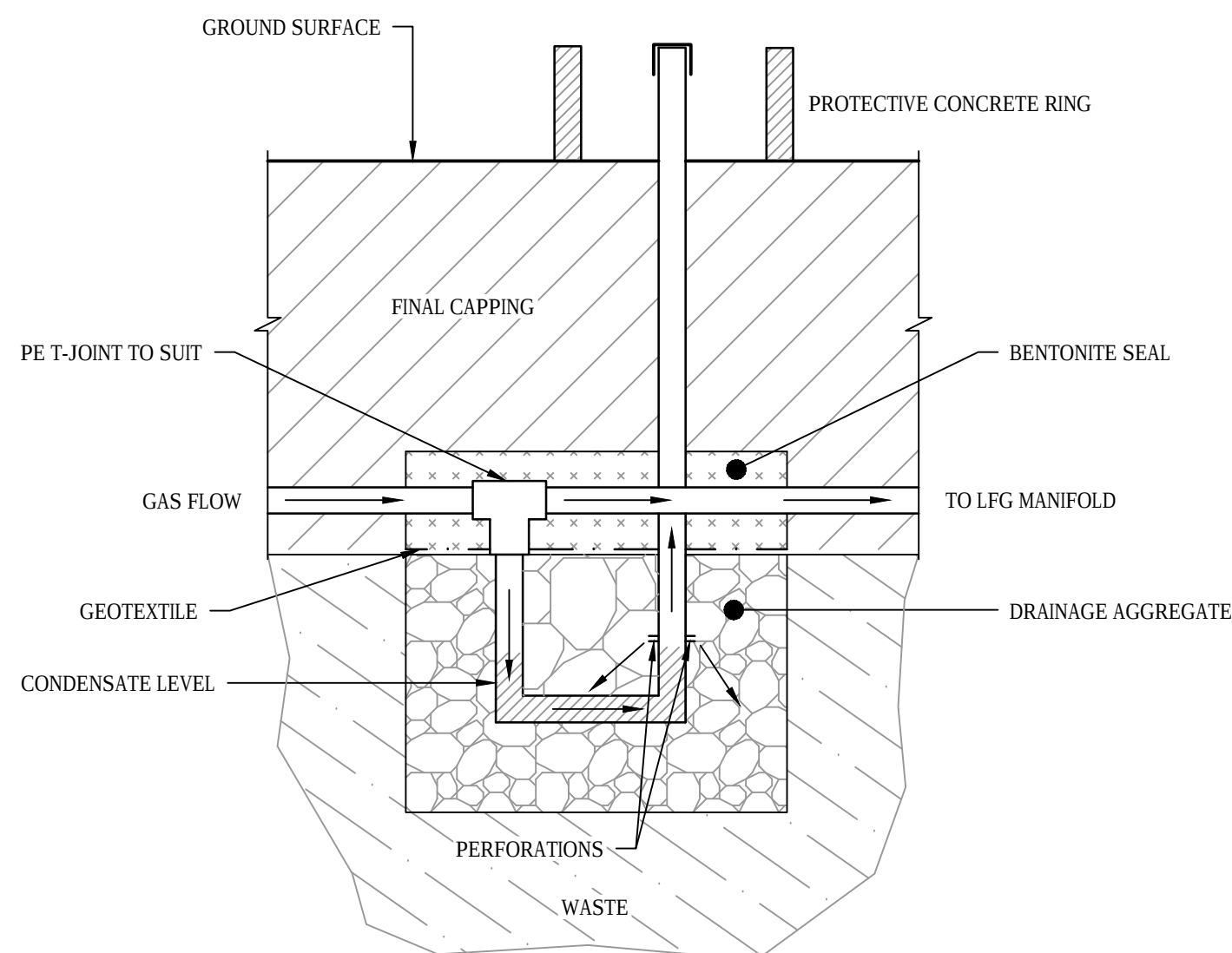
C DETAIL
C501 N.T.S.

LANDFILL GAS MANIFOLD (TYP.)



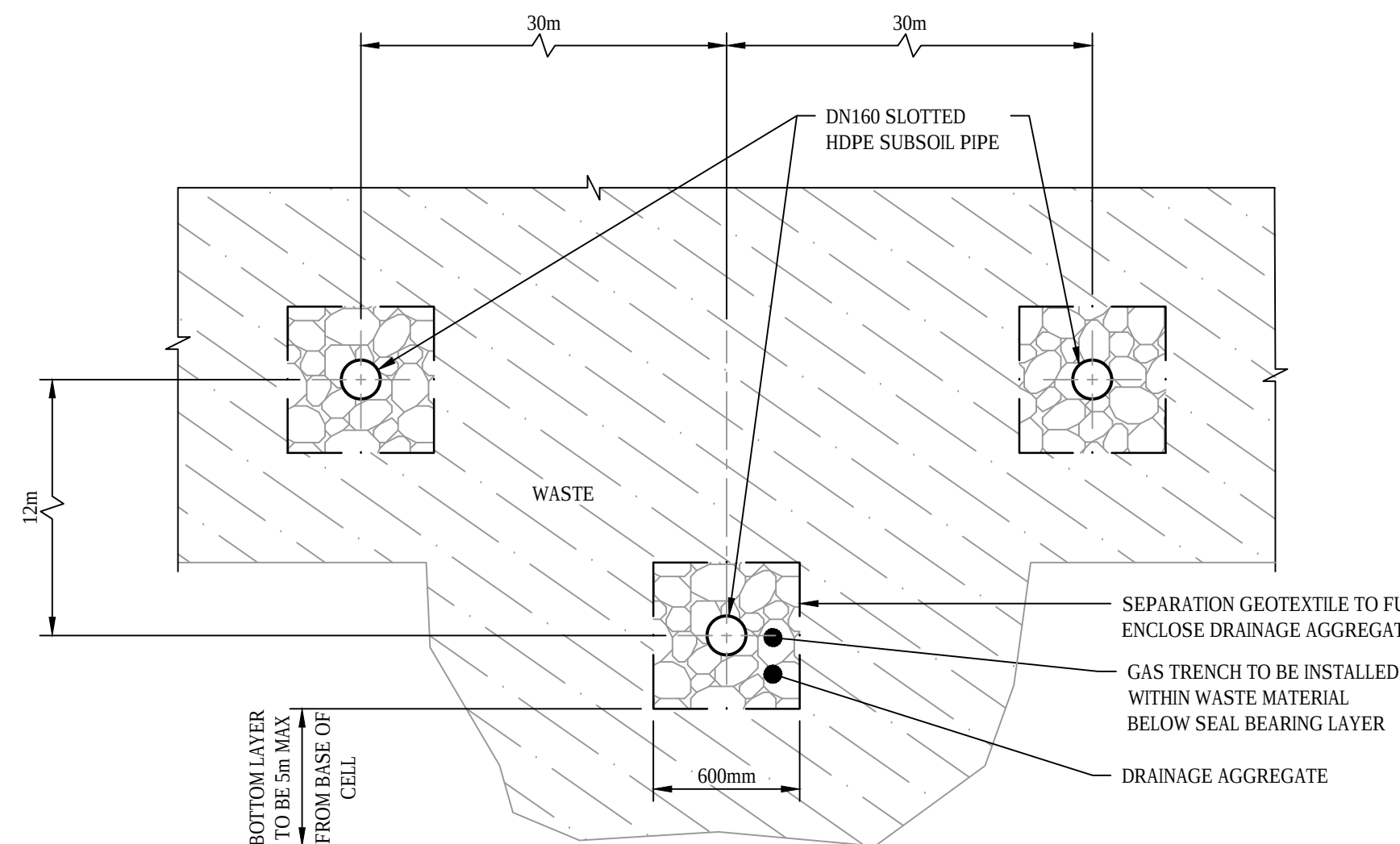
D DETAIL
C501 N.T.S.

CONDENSATE DRAINAGE POT (TYP.)



E DETAIL
C501 N.T.S.

J-TRAP (TYP.)



F DETAIL
C501 N.T.S.

HORIZONTAL LFG WELL
(SEE NOTE 1)

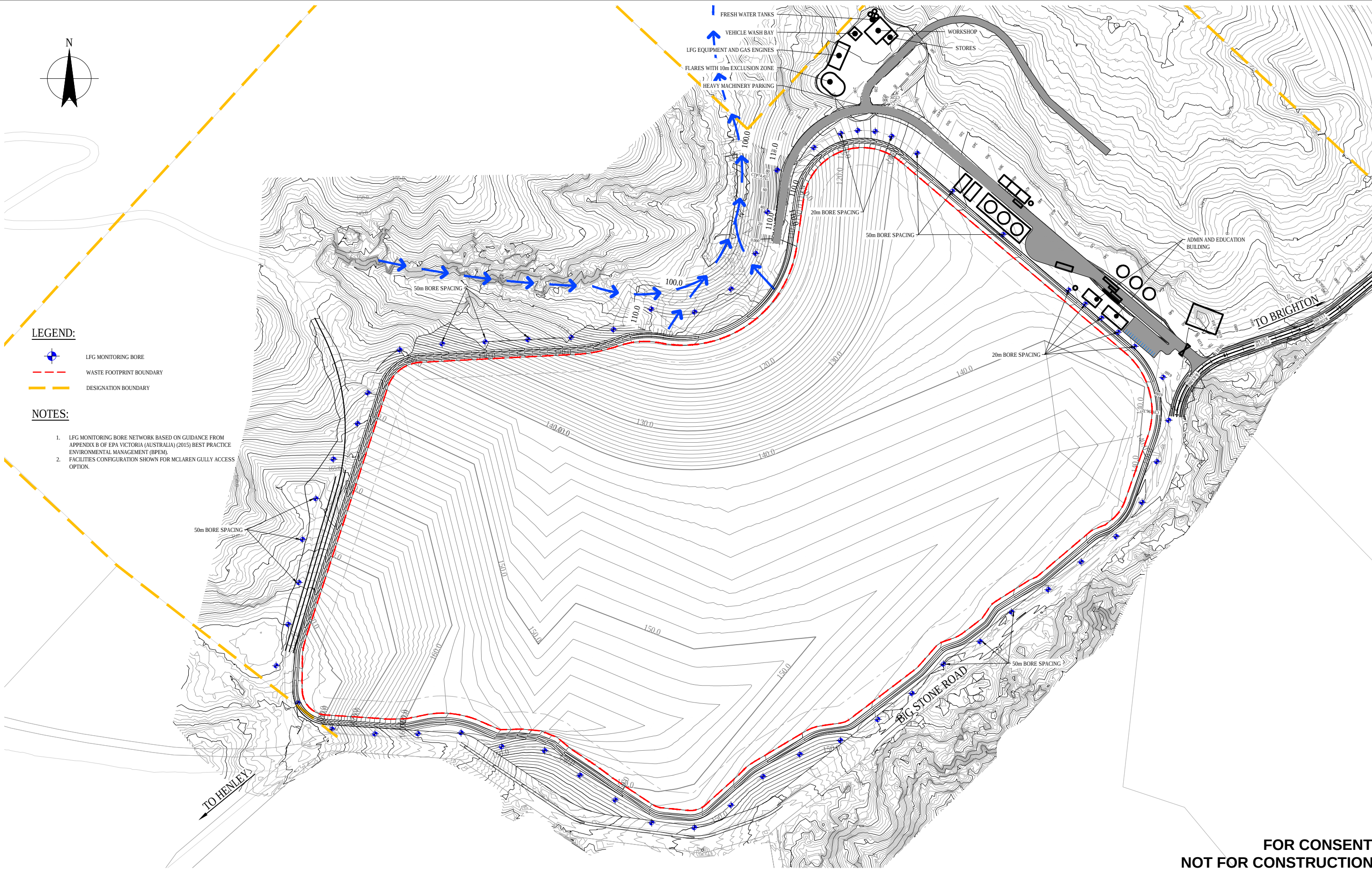
- NOTE:**
- LAYOUT OF HORIZONTAL LFG WELLS NOT SHOWN ON PLAN C501 DUE TO 3D NATURE.
 - NOT FOR CONSTRUCTION.

**FOR CONSENT
NOT FOR CONSTRUCTION**

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No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director Date



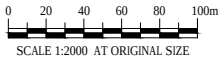
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	Approved (Project Director) S.DOUGLAS*	Date 14.08.2020	Title LANDFILL GAS MANAGEMENT DETAILS SHEET
Scale NOT TO SCALE	This Drawing must not be used for Construction unless signed as Approved	Original Size A1	Drawing No: 51-12506381-01-C502 Rev: 1



- LEGEND:**
- LFG MONITORING BORE
 - WASTE FOOTPRINT BOUNDARY
 - DESIGNATION BOUNDARY
- NOTES:**
- LFG MONITORING BORE NETWORK BASED ON GUIDANCE FROM APPENDIX B OF EPA VICTORIA (AUSTRALIA) (2015) BEST PRACTICE ENVIRONMENTAL MANAGEMENT (BPEM).
 - FACILITIES CONFIGURATION SHOWN FOR MCLAREN GULLY ACCESS OPTION.

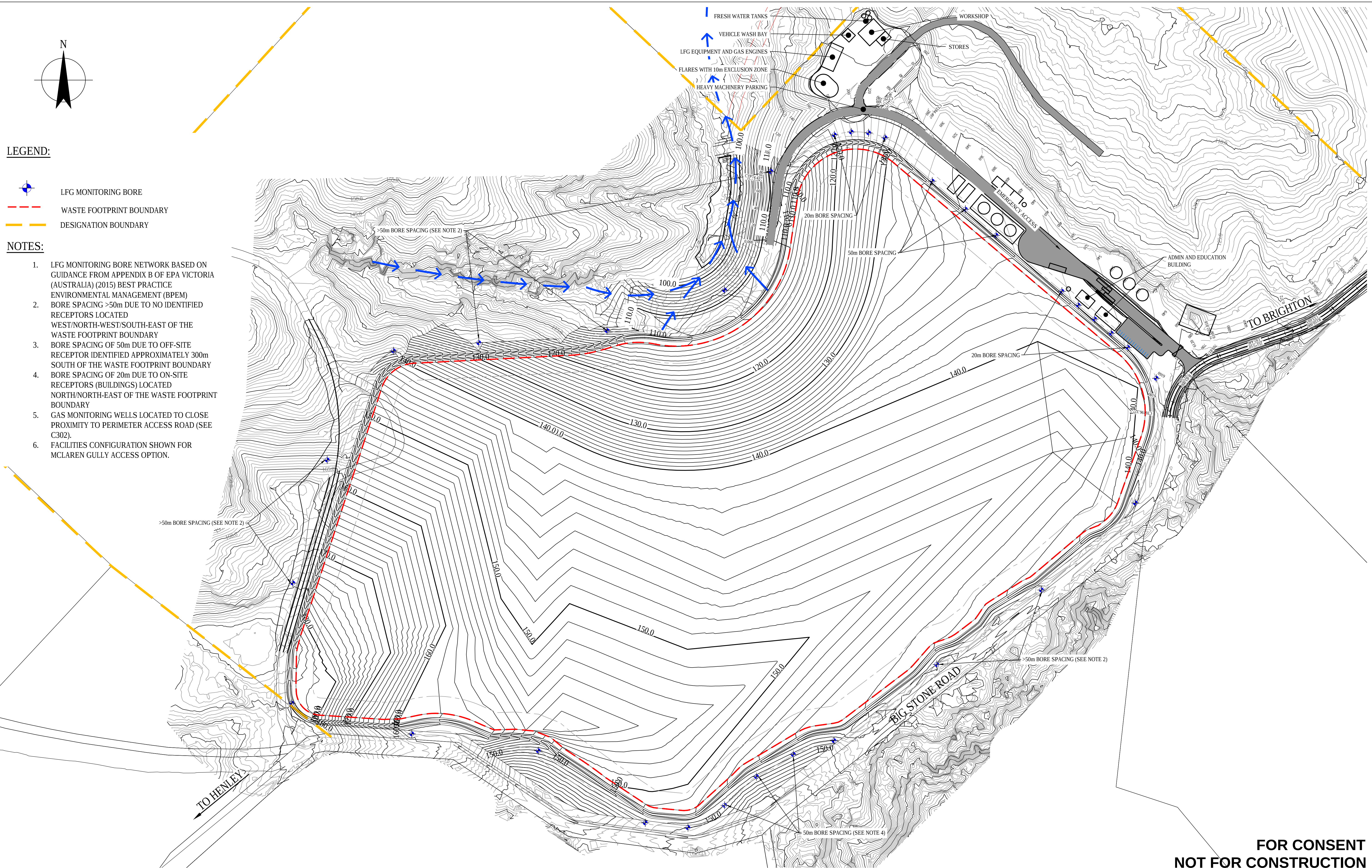
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NOT FOR CONSTRUCTION**

1	FOR CONSENT		RK	RC*	SD*
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director
					Date
					14.08.20



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	Approved (Project Director) S.DOUGLAS*	
	Date 14.08.2020	
	Scale 1 : 2000	This Drawing must not be used for Construction unless signed as Approved

Client	DUNEDIN CITY COUNCIL
Project	SMOOTH HILL LANDFILL
Title	LANDFILL GAS MANAGEMENT LFG BORE MONITORING NETWORK (CONSERVATIVE)
Original Size	A1
Drawing No:	51-12506381-01-C503
Rev:	1



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	Approved (Project Director)	S.DOUGLAS*	Title	LANDFILL GAS MANAGEMENT
	Date	14.08.2020	LFG BORE MONITORING NETWORK (RECOMMENDED)	
Scale 1 : 2000	This Drawing must not be used for Construction unless signed as Approved		Original Size	A1
			Drawing No:	51-12506381-01-C504
			Rev:	1

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No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director
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Drawn	R.KARAVAKI
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Drafting Check	V.LITH*	De Ch
Approved (Project Director)	S.DOUGLAS*	
Date	14.08.2020	

Scale 1 : 2000

Designer R.COOMBE

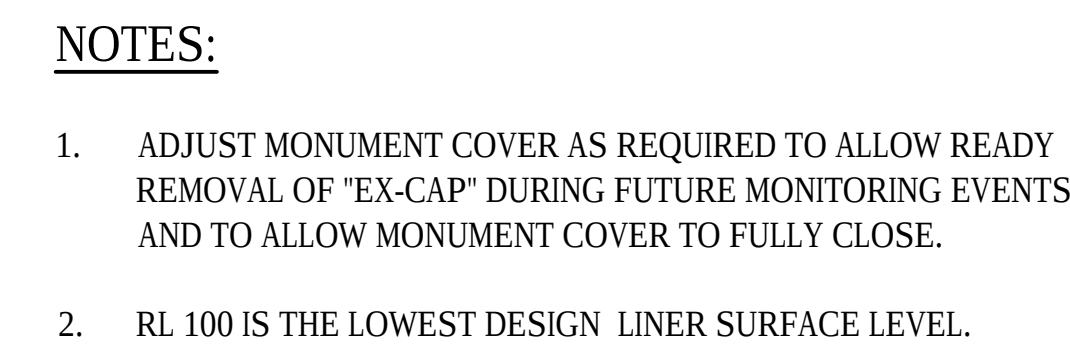
Design Check	N.ELDRED*
GLAS*	

2020

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signed as Approved

Client	DUNEDIN CITY COUNCIL
Project	SMOOTH HILL LANDFILL
Title	LANDFILL GAS MANAGEMENT LFG BORE MONITORING NETWORK (RECOMMENDED)

Original Size
A1 Drawing No: **51-12506381-01-C504** Rev: **1**



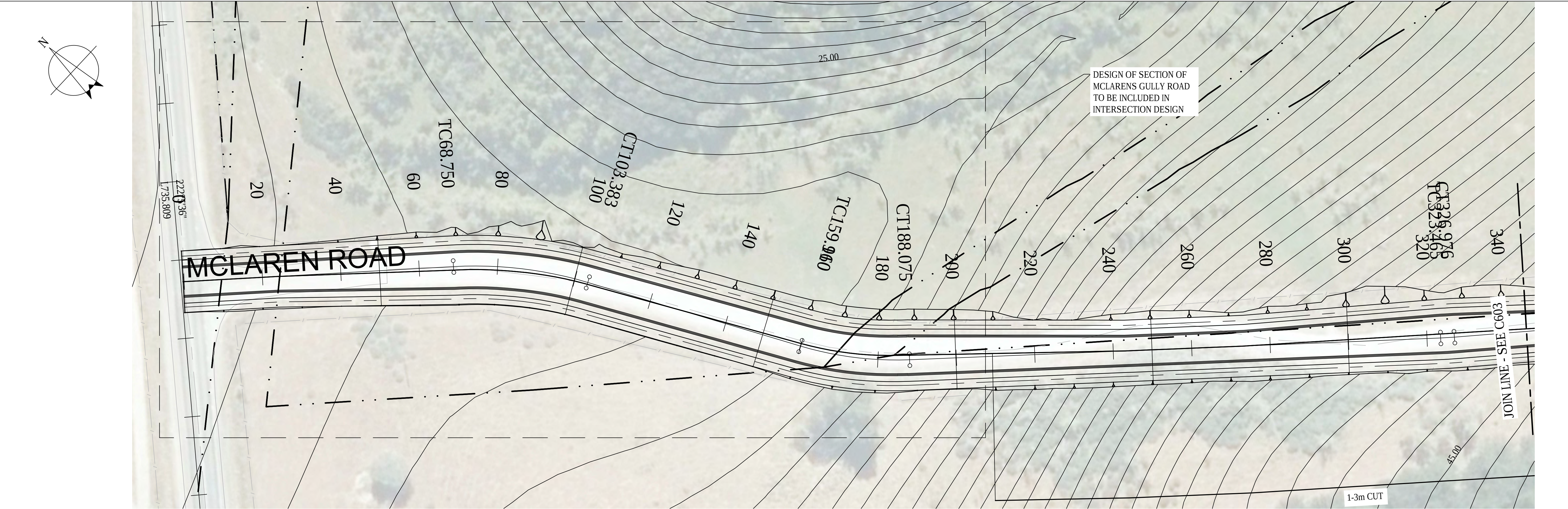
LANDFILL GAS MONITORING BORE (TYP.)

[illegible]



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							 SCALE 1:500 AT ORIGINAL SIZE						GHD Limited Conditions of Use. This document may only be used by GHD's client (and any other person who GHD has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.		Drafting Check V.LITH*	Design Check A. WHALEY*	Project SMOOTH HILL LANDFILL		
													Approved (Project Director) S. DOUGLASS*				Title INTERSECTION UPGRADE SH1 AND MCLARENS GULLY ROAD		
													Date 14.08.2020				Original Size		
1	FOR CONSENT					SLP	NE*	SD*	14.08.20					Scale AS SHOWN		This Drawing must not be used for Construction unless signed as Approved.		A1 Drawing No: 12506381-C601	Rev: 1
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing				Drawn	Job Manager	Project Director	Date										



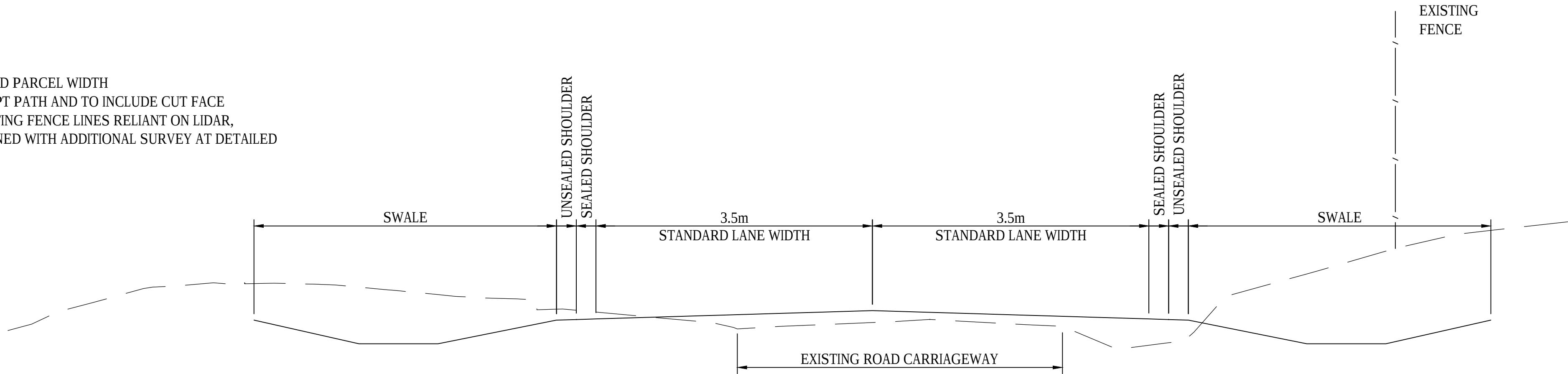
PROPOSED ROAD IMPROVEMENT CORRIDOR

SCALE 1:500

LEGEND:	
	PROPERTY BOUNDARY
	EXISTING FENCE
	INDICATIVE CENTERLINE
	PROPOSED ROAD
	CORRIDOR BOUNDARY
	EXTENT OF EARTHWORKS

NOTES:

- ROAD CORRIDOR
 - STANDARD 20m ROAD PARCEL WIDTH
 - WIDENED FOR SWEEP PATH AND TO INCLUDE CUT FACE
- SURVEY OUTSIDE EXISTING FENCE LINES RELIANT ON LIDAR, BOUNDARY TO BE REFINED WITH ADDITIONAL SURVEY AT DETAILED DESIGN

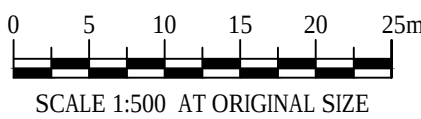


TYPICAL SECTION

SCALE N.T.S

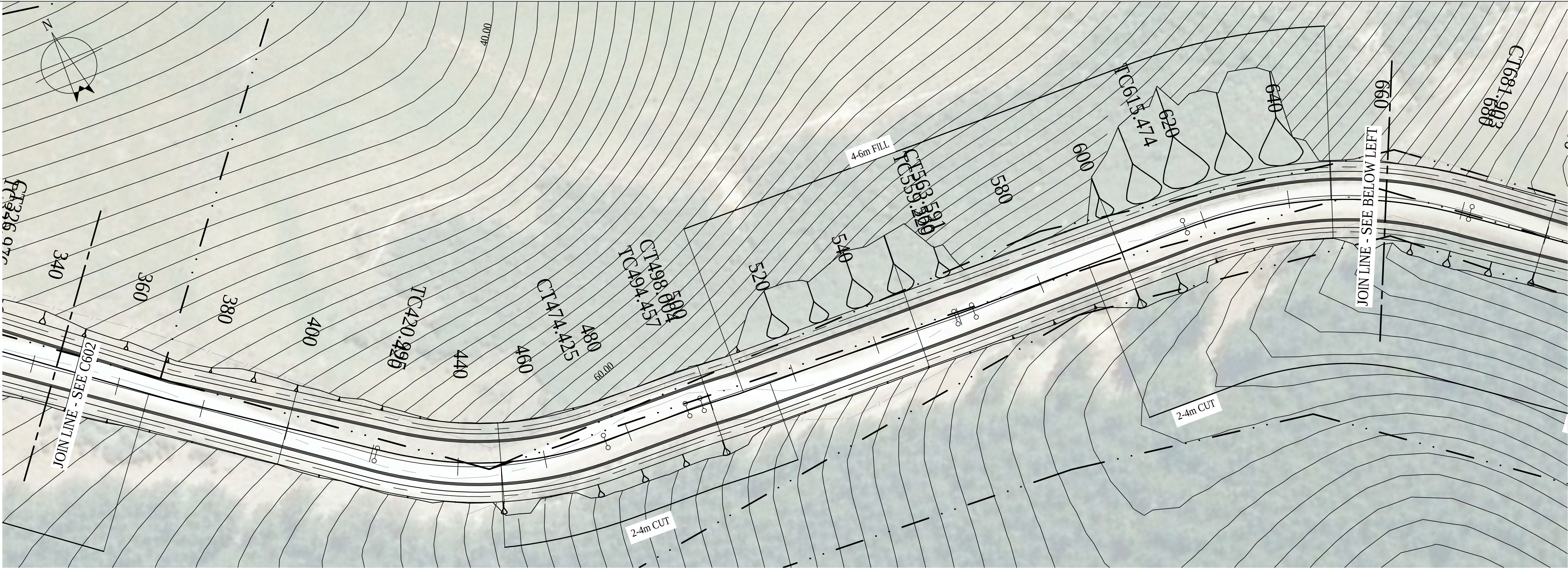
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1	FOR CONSENT		SLP	NE*	SD*	14.08.20
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date



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	Approved (Project Director) S. DOUGLASS*	Date 14.08.2020
	Scale 1:500	This Drawing must not be used for Construction unless signed as Approved

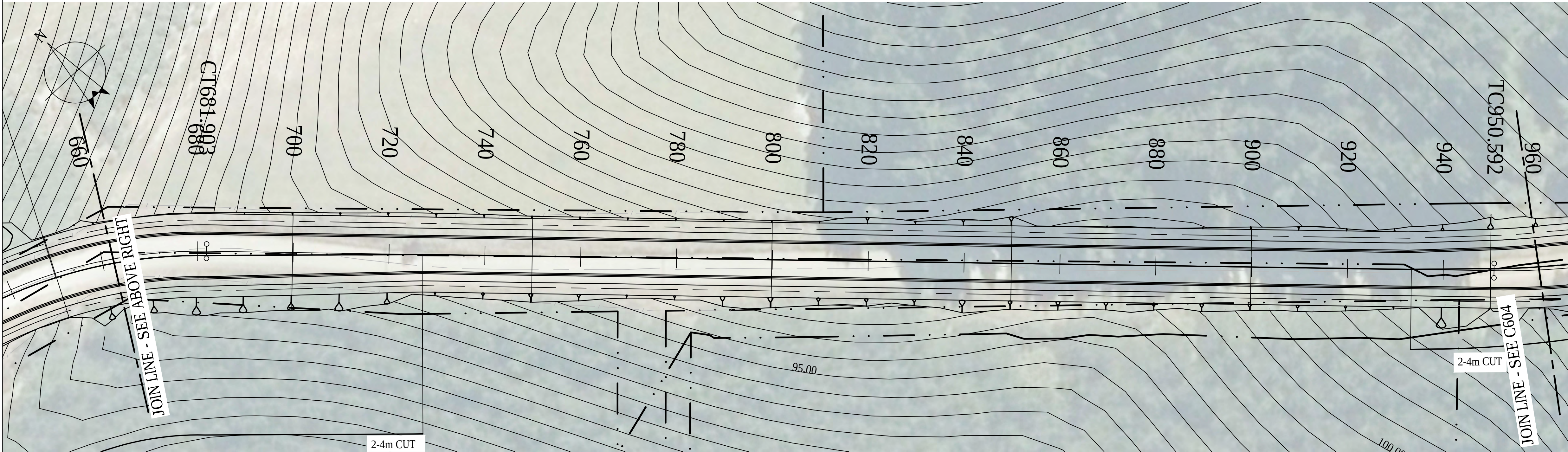
Client	DUNEDIN CITY COUNCIL
Project	SMOOTH HILL LANDFILL
Title	MCLARENS GULLY ROAD IMPROVEMENTS PLAN
Original Size	A1
Drawing No:	51-12506381-01-C602
Rev:	1



PROPOSED ROAD IMPROVEMENT CORRIDOR

SCALE 1:500

LEGEND:	
	PROPERTY BOUNDARY
	EXISTING FENCE
	INDICATIVE CENTERLINE
	PROPOSED ROAD CORRIDOR BOUNDARY
	EXTENT OF EARTHWORKS

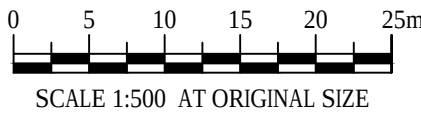


PROPOSED ROAD IMPROVEMENT CORRIDOR

SCALE 1:500

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Drawn S. LEPAGE

Drafting v. LITH*

Approved (Project Director)

Date 14.08.2020

Designer S. LE PAGE

Design Check A. WHALEY*

S. DOUGLASS*

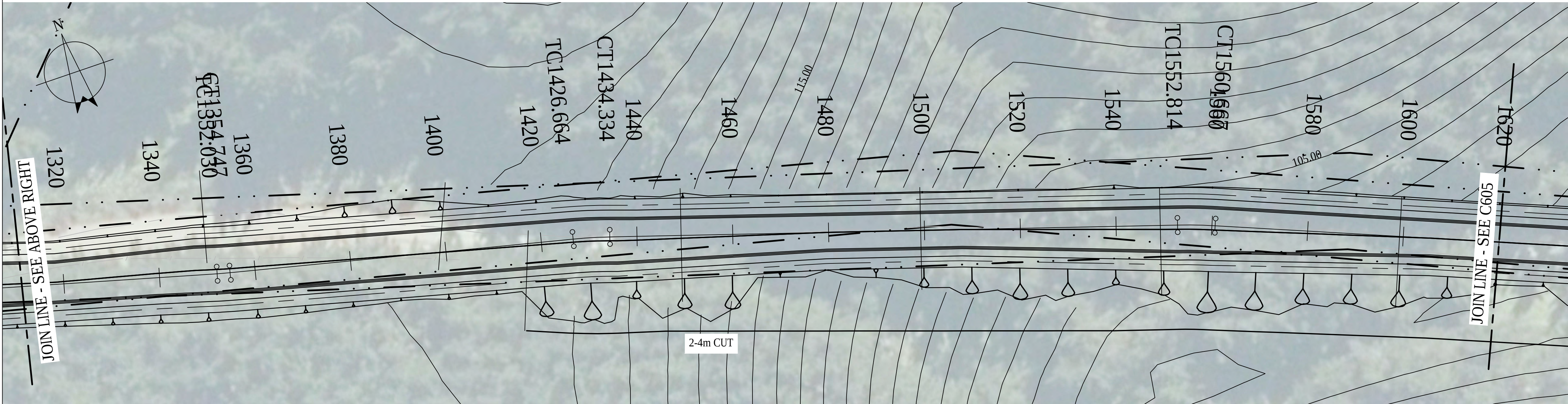
Scale 1:500

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signed as Approved

Client	DUNEDIN CITY COUNCIL
Project	SMOOTH HILL LANDFILL
Title	MCLARENS GULLY ROAD IMPROVEMENTS PLAN
Original Size	A1
Drawing No:	51-12506381-01-C603
Rev:	1



PROPOSED ROAD IMPROVEMENT CORRIDOR
SCALE 1:500

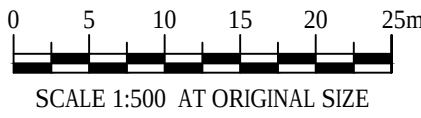


PROPOSED ROAD IMPROVEMENT CORRIDOR
SCALE 1:500

LEGEND:	
	PROPERTY BOUNDARY
	EXISTING FENCE
	INDICATIVE CENTERLINE
	PROPOSED ROAD
	CORRIDOR BOUNDARY
	EXTENT OF EARTHWORKS

FOR CONSENT
NOT FOR CONSTRUCTION

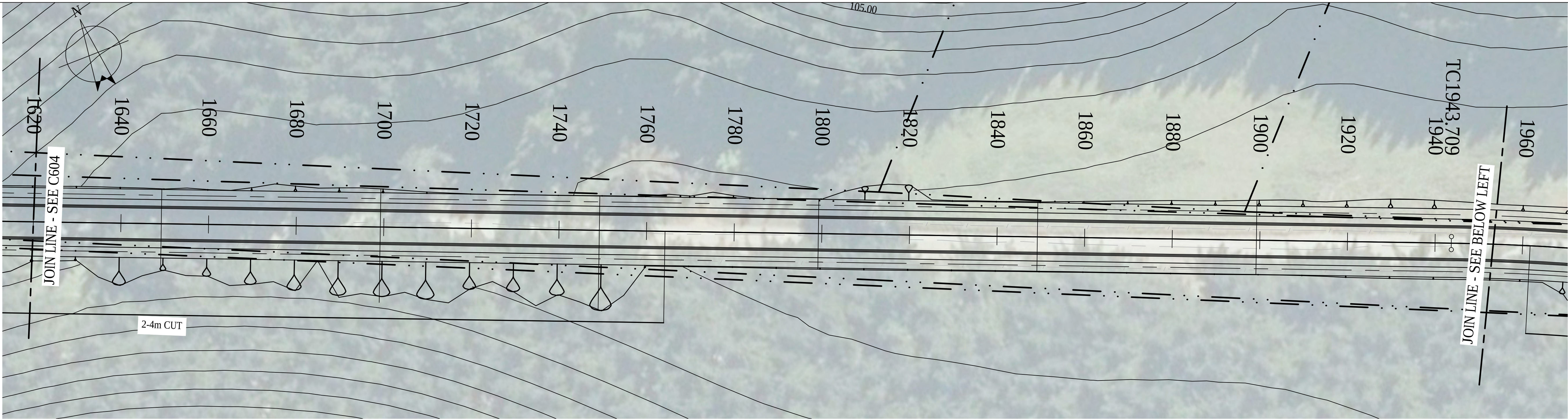
1	FOR CONSENT	SLP	NE*	SD*	14.08.20
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director



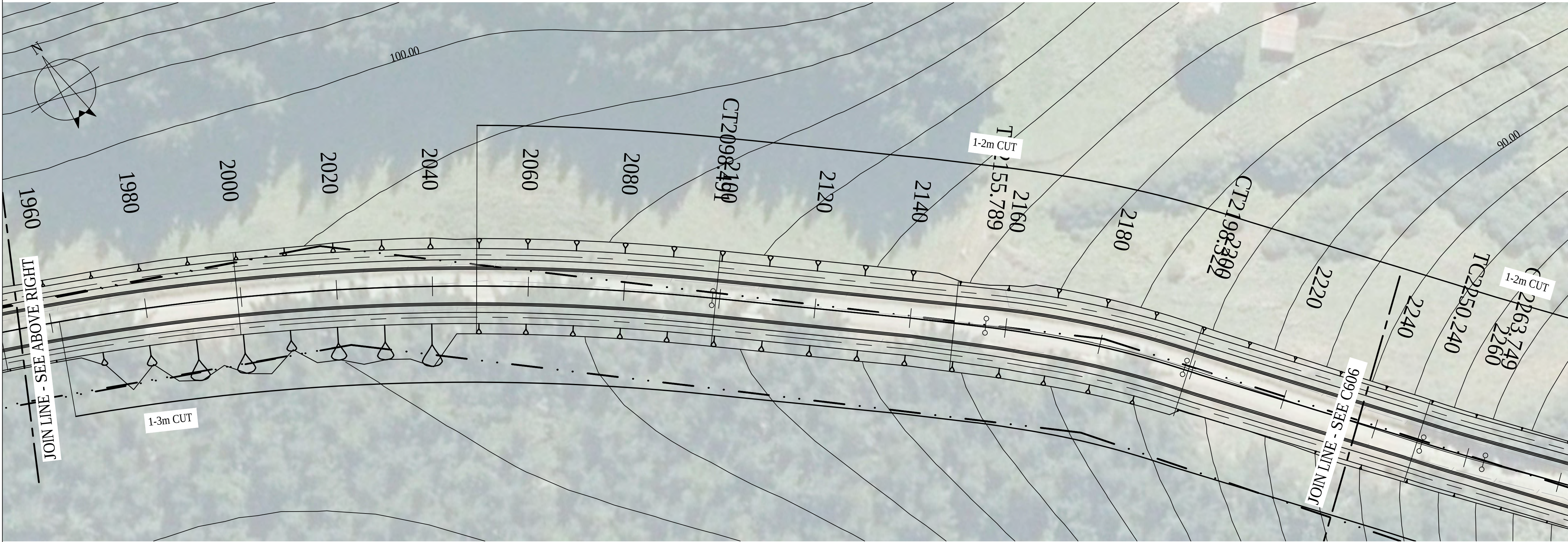
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	Designer S. LE PAGE
	Drafting v. LITH*
	Design Check A. WHALEY*
Approved (Project Director)	S. DOUGLASS*
	Date 14.08.2020
Scale	1:500
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Client	DUNEDIN CITY COUNCIL		
Project	SMOOTH HILL LANDFILL		
Title	MCLARENS GULLY ROAD IMPROVEMENTS PLAN		
Original Size	A1	Drawing No: 51-12506381-01-C604	Rev: 1



PROPOSED ROAD IMPROVEMENT CORRIDOR
SCALE 1:500

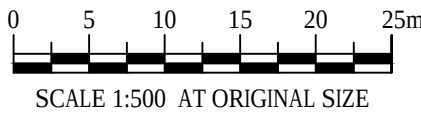


PROPOSED ROAD IMPROVEMENT CORRIDOR
SCALE 1:500

LEGEND:	
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	EXISTING FENCE
	INDICATIVE CENTERLINE
	PROPOSED ROAD
	CORRIDOR BOUNDARY
	EXTENT OF EARTHWORKS

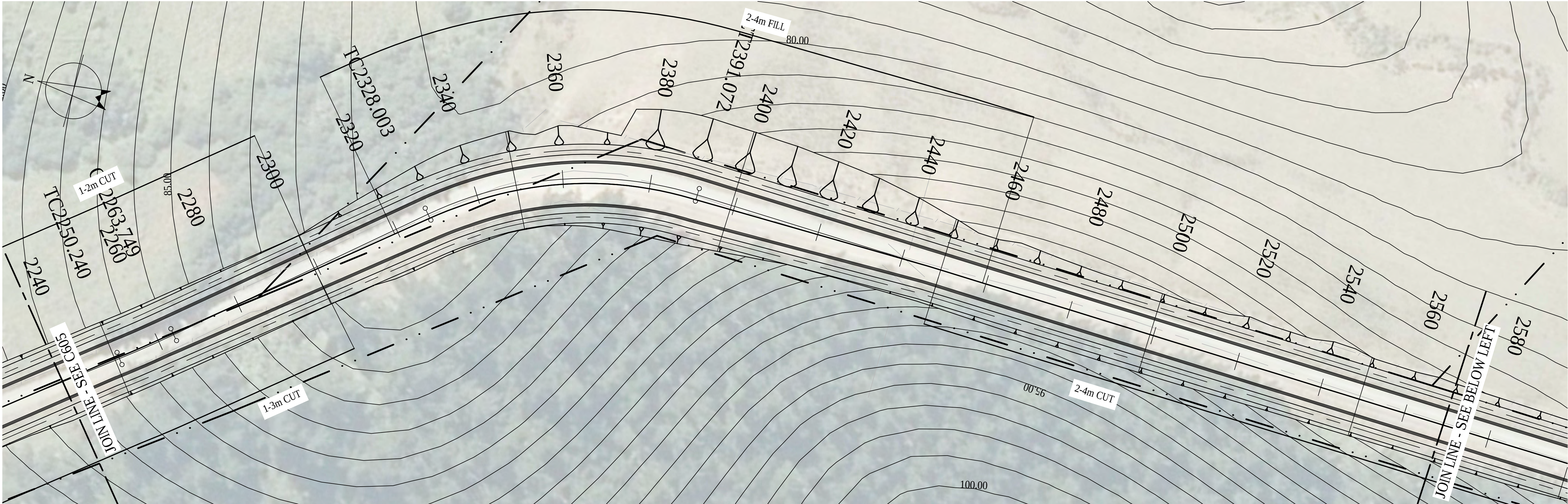
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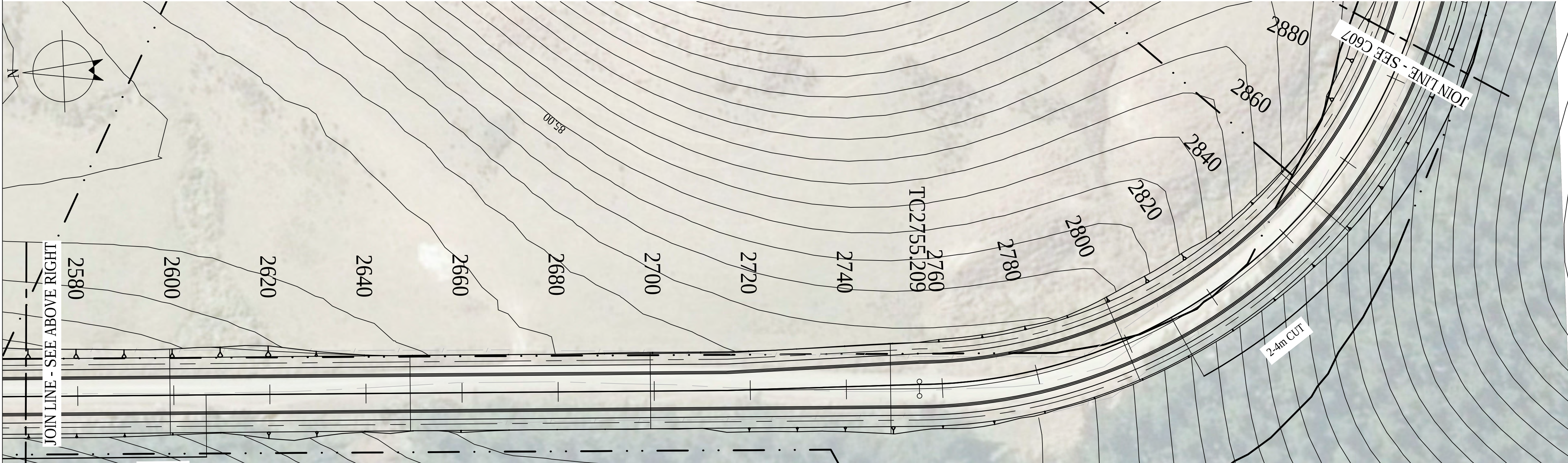
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	Approved (Project Director)	S. DOUGLASS*		
	Date	14.08.2020		
	Scale	1:500		
		This Drawing must not be used for Construction unless signed as Approved		
		Original Size	A1	
		Drawing No:	51-12506381-01-C605	
		Rev:	1	



PROPOSED ROAD IMPROVEMENT CORRIDOR

SCALE 1:500



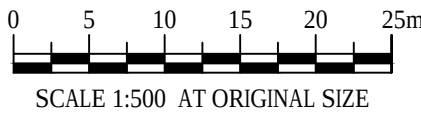
PROPOSED ROAD IMPROVEMENT CORRIDOR

SCALE 1:500

LEGEND:	
	PROPERTY BOUNDARY
	EXISTING FENCE
	INDICATIVE CENTERLINE
	PROPOSED ROAD
	CORRIDOR BOUNDARY
	EXTENT OF EARTHWORKS

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No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date



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Drawn S. LEPAGE

Designer S. LE PAGE

Drafting V. LITH*

Design Check A. WHALEY*

Approved (Project Director)

S. DOUGLASS*

Date

14.08.2020

Scale

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Client

DUNEDIN CITY COUNCIL

Project

SMOOTH HILL LANDFILL

Title

MCLARENS GULLY ROAD IMPROVEMENTS PLAN

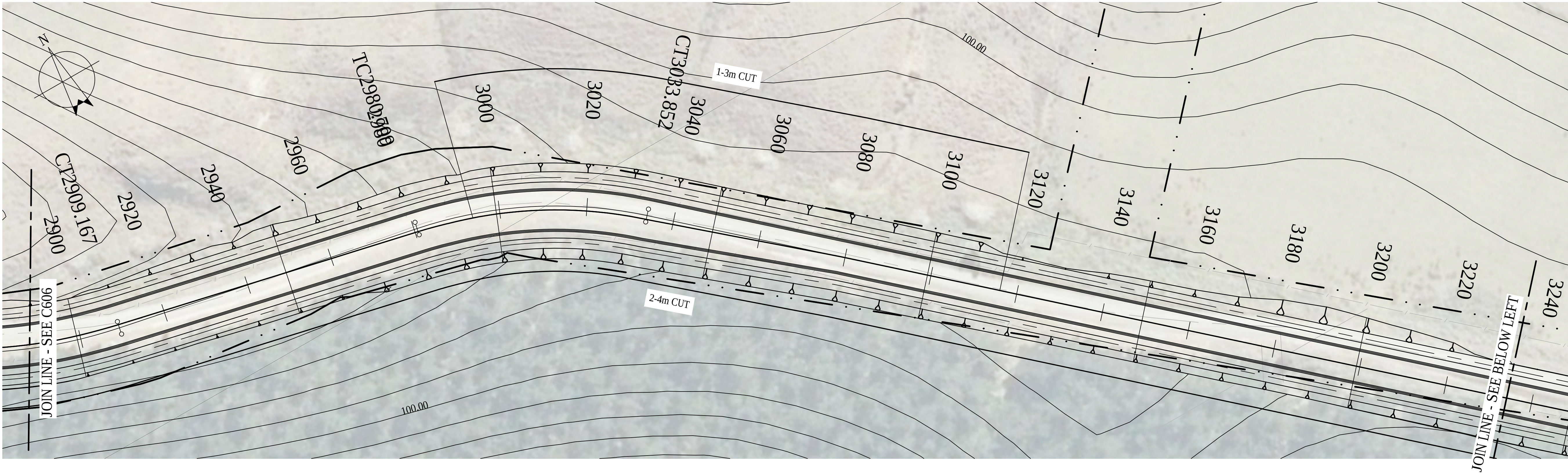
Original Size

A1

Drawing No:

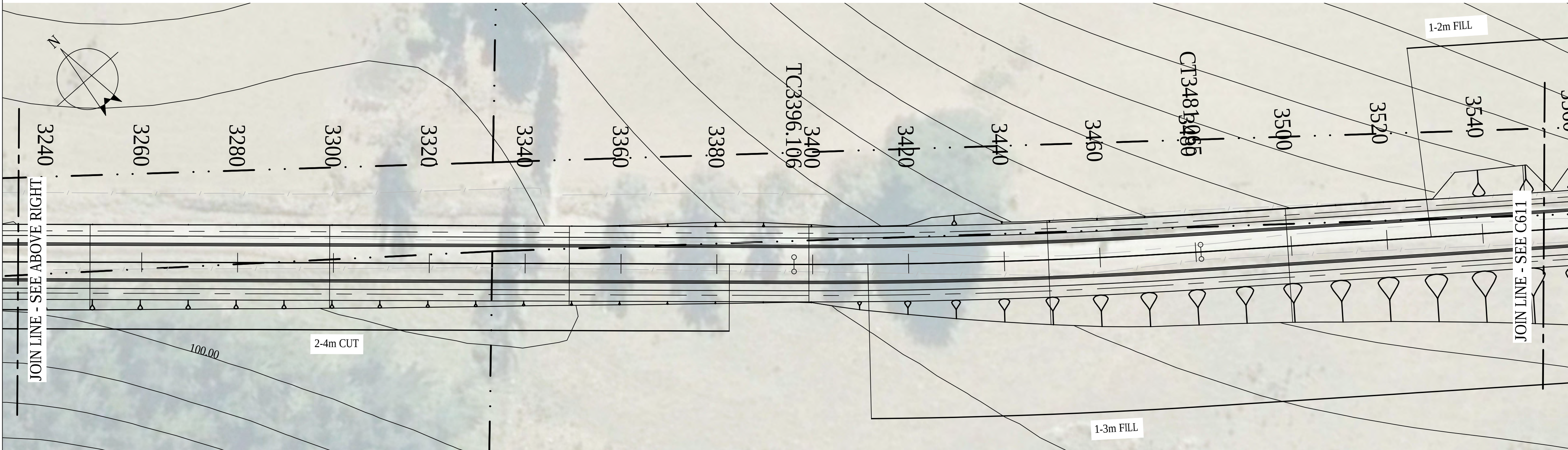
51-12506381-01-C606

Rev: 1



PROPOSED ROAD IMPROVEMENT CORRIDOR

SCALE 1:500



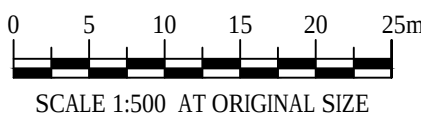
PROPOSED ROAD IMPROVEMENT CORRIDOR

SCALE 1:500

LEGEND:	
	PROPERTY BOUNDARY
	EXISTING FENCE
	INDICATIVE CENTERLINE
	PROPOSED ROAD
	CORRIDOR BOUNDARY
	EXTENT OF EARTHWORKS

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No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
1	FOR CONSENT		SLP	NE*	SD*	14.08.20



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Drawn S. LEPAGE

Designer S. LE PAGE

Drafting v. LITH*

Design Check A. WHALEY*

Approved (Project Director)

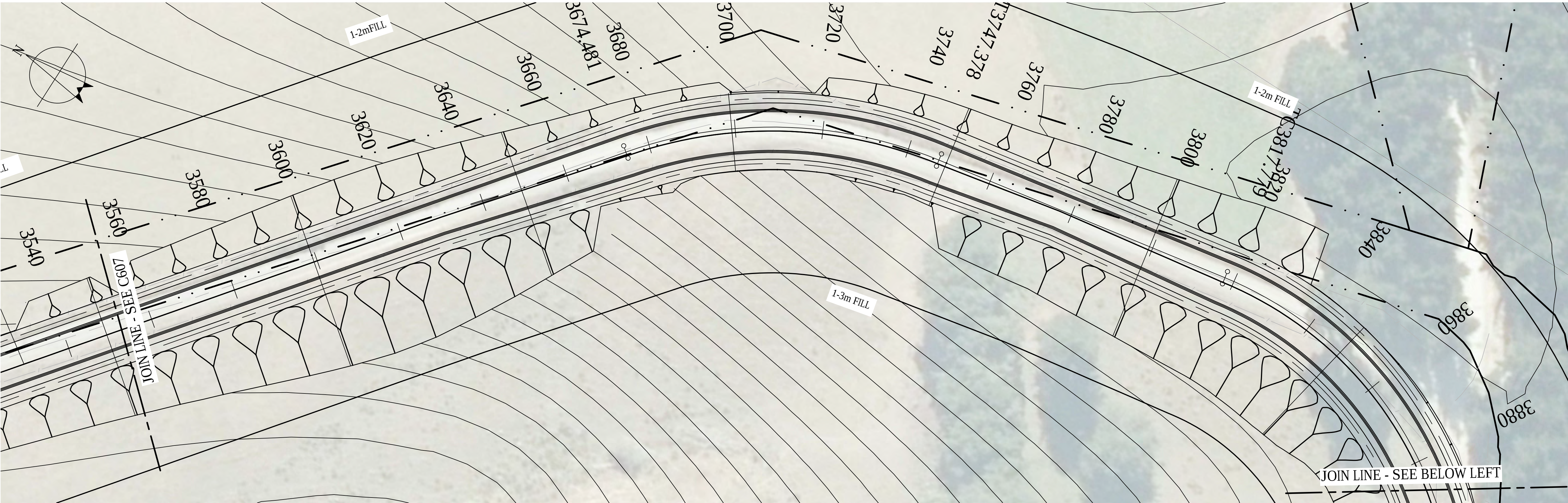
S. DOUGLASS*

Date 14.08.2020

Scale 1:500

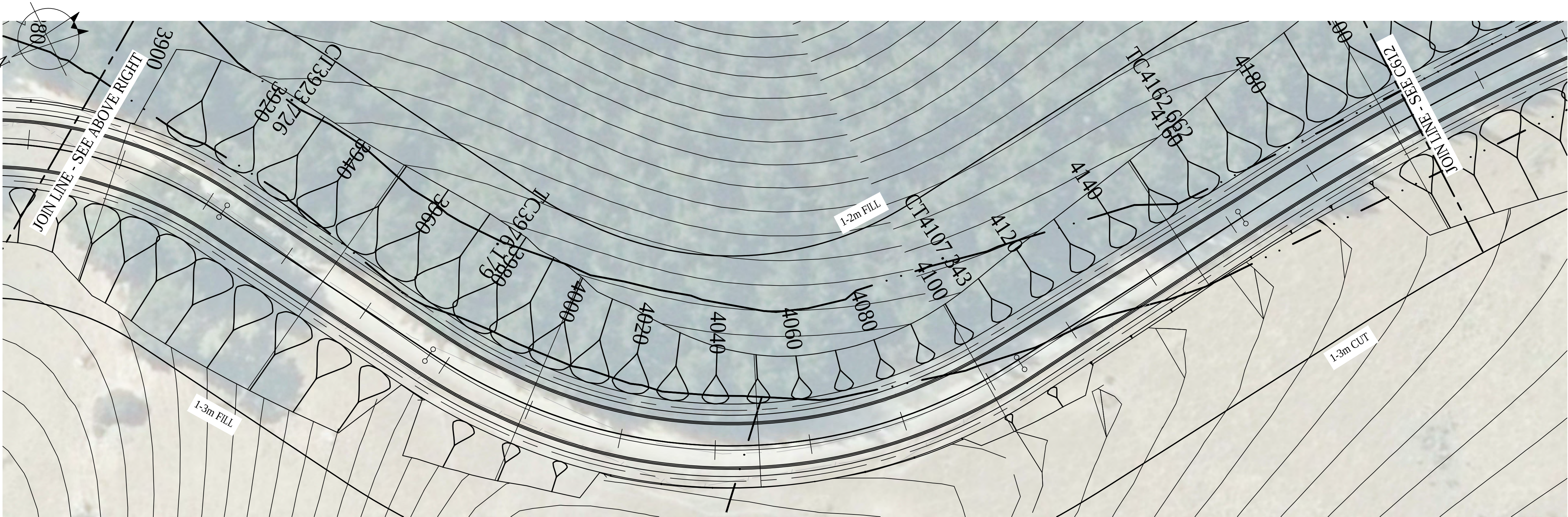
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Client	DUNEDIN CITY COUNCIL
Project	SMOOTH HILL LANDFILL
Title	MCLARENS GULLY ROAD IMPROVEMENTS PLAN
Original Size	A1
Drawing No:	51-12506381-01-C607
Rev:	1



PROPOSED ROAD IMPROVEMENT CORRIDOR

SCALE 1:500



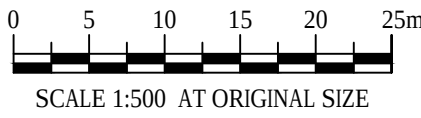
PROPOSED ROAD IMPROVEMENT CORRIDOR

SCALE 1:500

LEGEND:	
	PROPERTY BOUNDARY
	EXISTING FENCE
	INDICATIVE CENTERLINE
	PROPOSED ROAD
	CORRIDOR BOUNDARY
	EXTENT OF EARTHWORKS

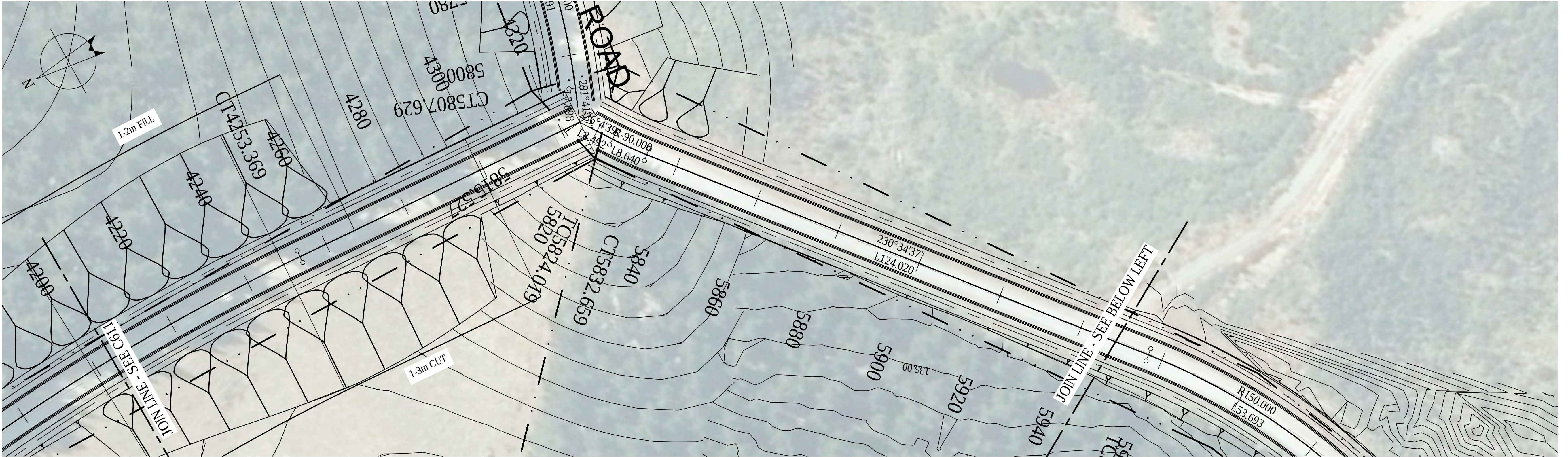
FOR CONSENT
NOT FOR CONSTRUCTION

1	FOR CONSENT		SLP	NE*	SD*	14.08.20
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date



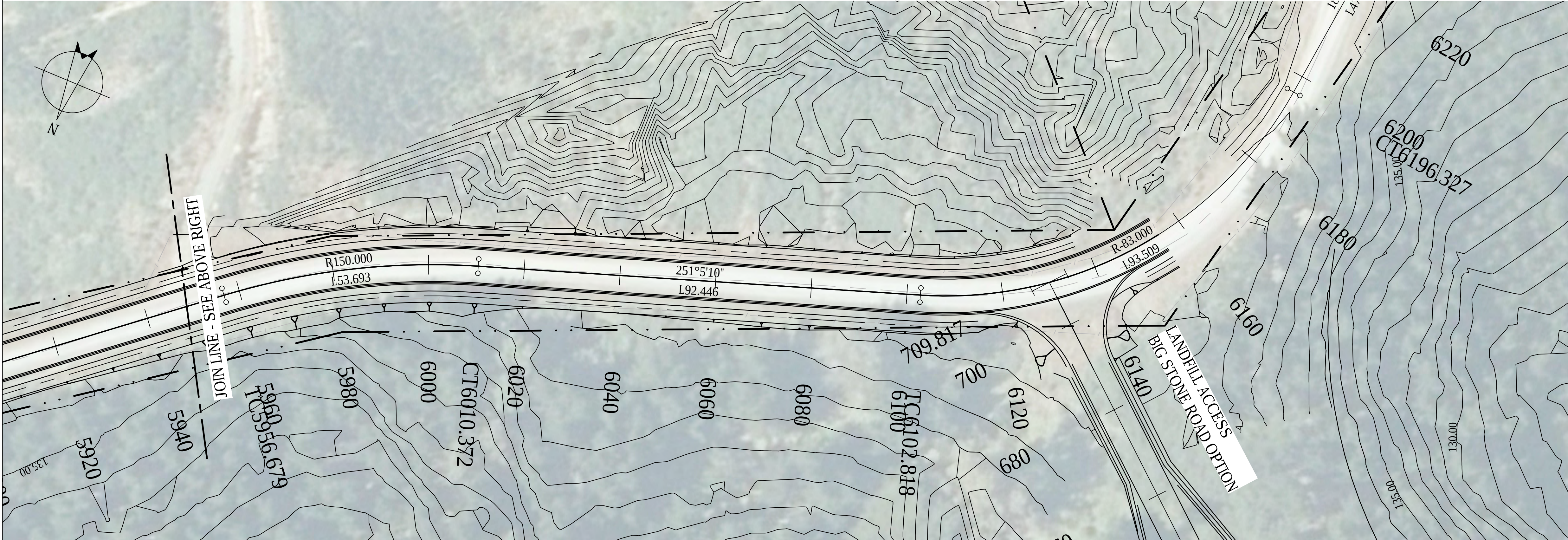
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	Approved (Project Director) S. DOUGLASS*	Date 14.08.2020
	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved

Client	DUNEDIN CITY COUNCIL
Project	SMOOTH HILL
Title	MCLARENS GULLY ROAD IMPROVEMENTS PLAN
Original Size	A1
Drawing No:	12506381-C611
Rev:	1



PROPOSED ROAD IMPROVEMENT CORRIDOR

SCALE 1:500



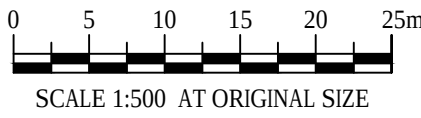
PROPOSED ROAD IMPROVEMENT CORRIDOR

SCALE 1:500

LEGEND:	
	PROPERTY BOUNDARY
	EXISTING FENCE
	INDICATIVE CENTERLINE
	PROPOSED ROAD
	CORRIDOR BOUNDARY
	EXTENT OF EARTHWORKS

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1	FOR CONSENT		SLP	NE*	SD*	14.08.20
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date



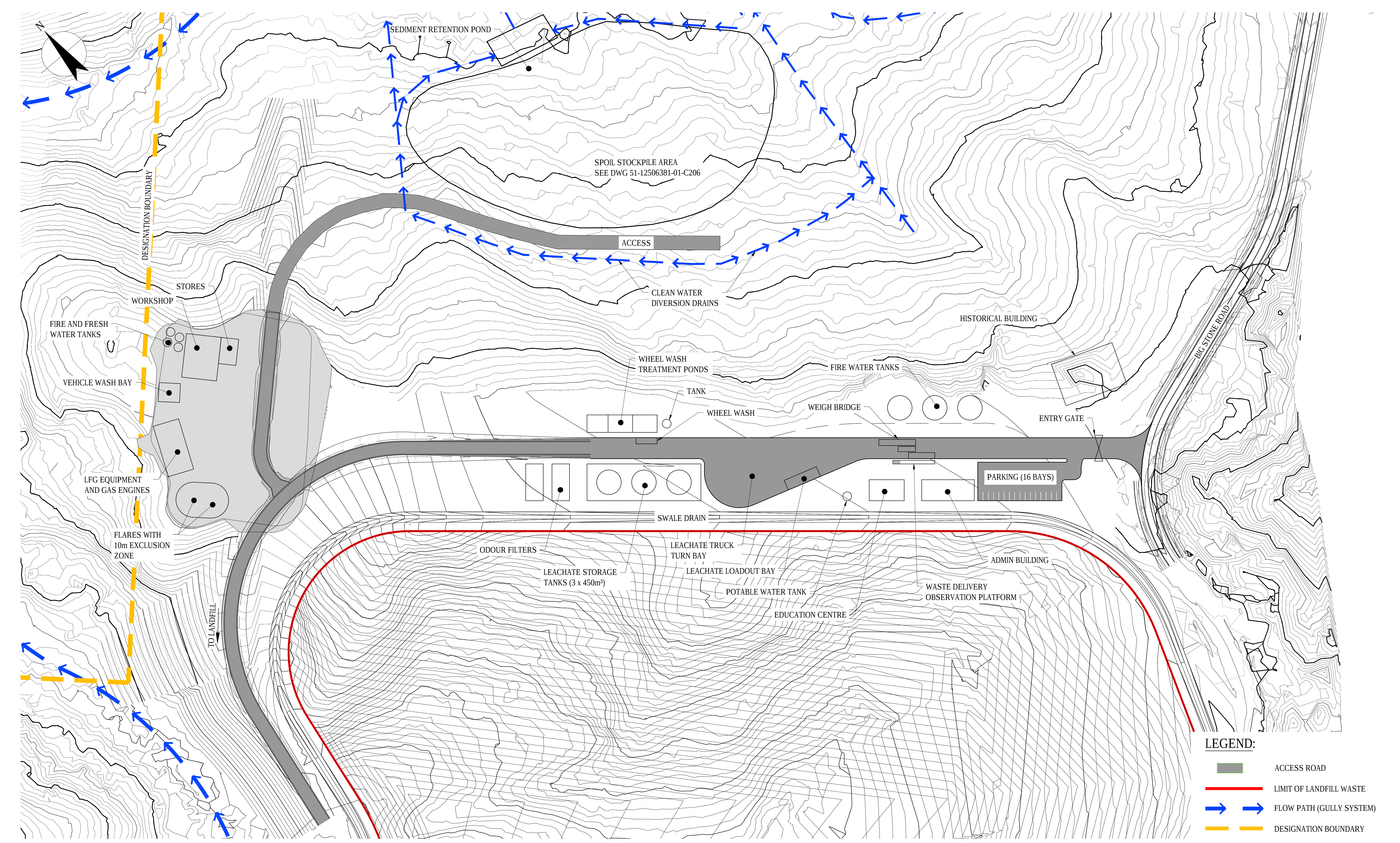
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Drafting Check	V. LITH*	Design Check	A. WHALEY*
Approved (Project Director)	S. DOUGLASS*	Date	14.08.2020
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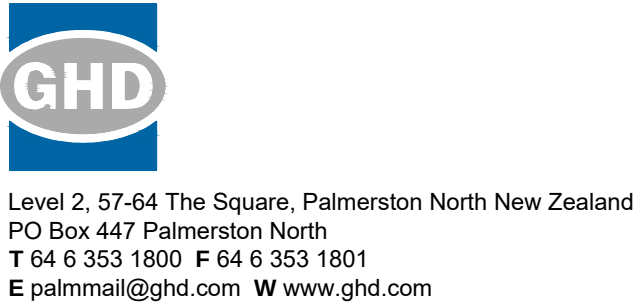
Client	DUNEDIN CITY COUNCIL
Project	SMOOTH HILL
Title	MCLARENS GULLY ROAD IMPROVEMENTS PLAN
Original Size	A1
Drawing No:	12506381-C612
Rev:	1



- LEGEND:**
- ACCESS ROAD
 - LIMIT OF LANDFILL WASTE
 - FLOW PATH (GULLY SYSTEM)
 - DESIGNATION BOUNDARY

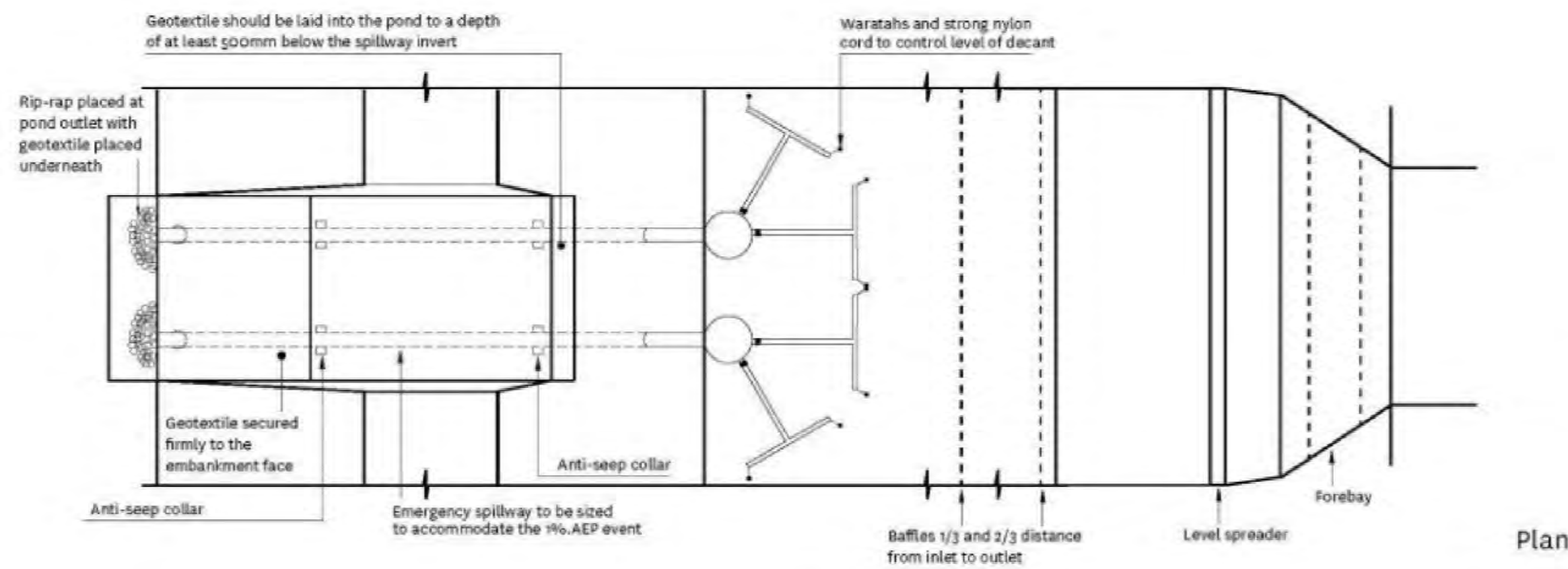
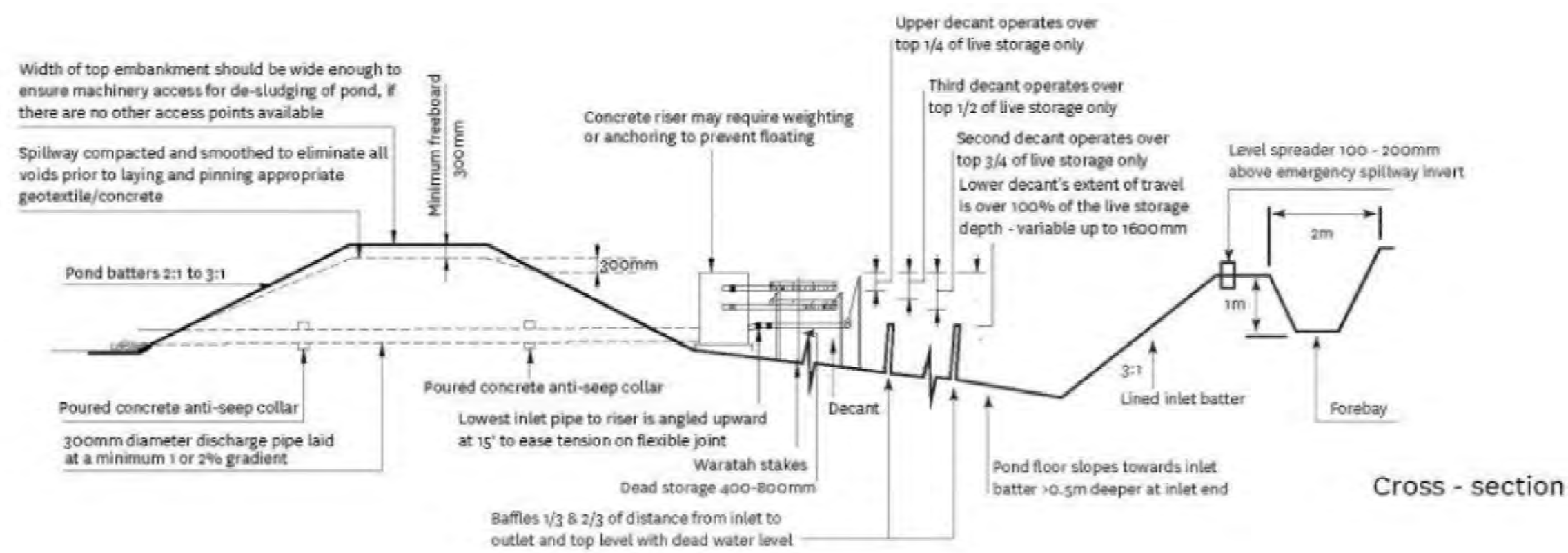
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No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

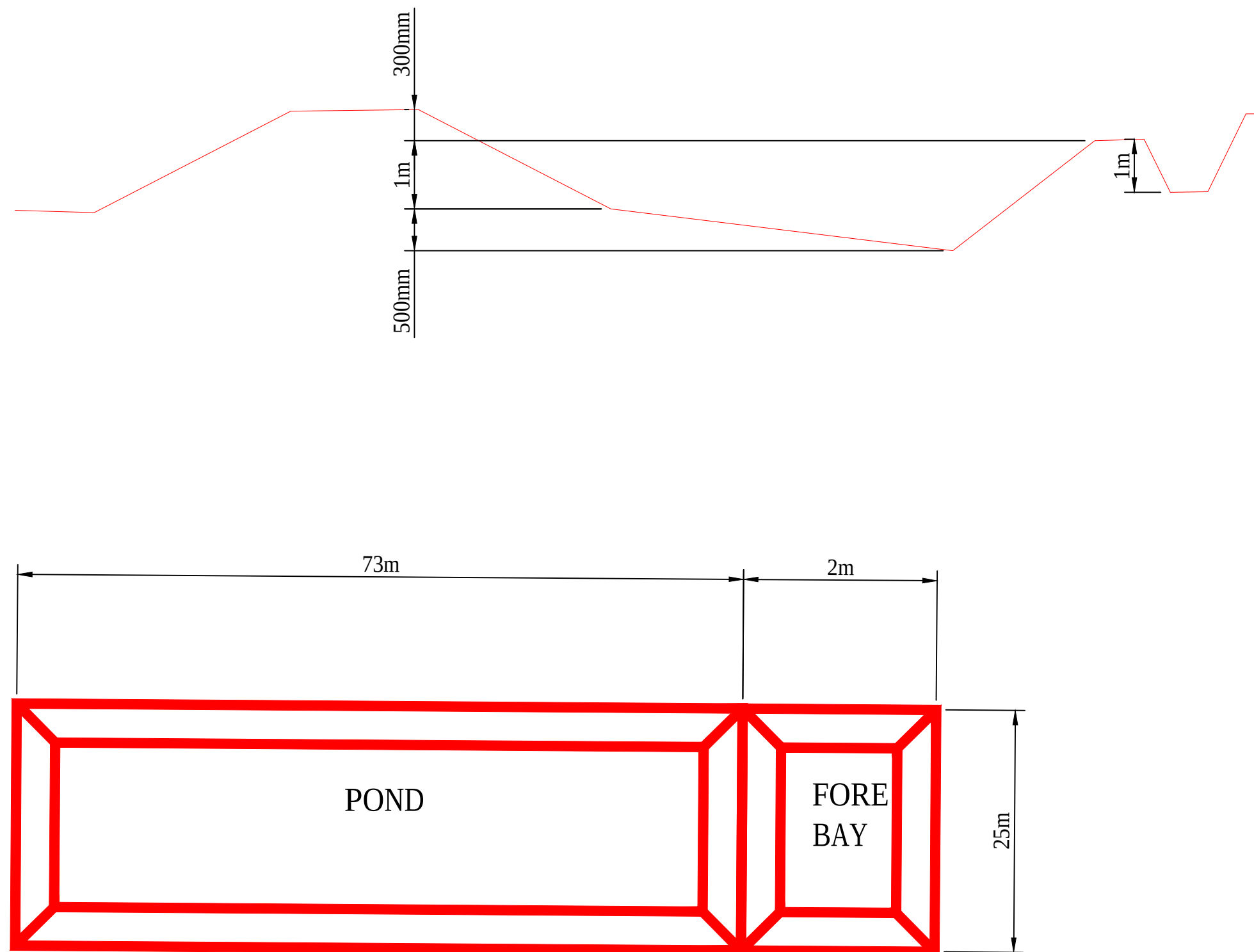


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	Approved (Project Director) S.DOUGLAS*	Date 14.08.2020
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Client	DUNEDIN CITY COUNCIL
Project	SMOOTH HILL LANDFILL
Title	LANDFILL FACILITIES PLAN BIG STONE ROAD ACCESS OPTION
Original Size	A1
Drawing No:	51-12506381-01-C702
Rev:	1



GENERIC SEDIMENTATION POND (SUBJECT TO SPECIFIC DESIGN)



STAGE 1 SEDIMENT POND DIMENSIONS

FOR CONSENT
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1	FOR CONSENT	RK	RC*	SD*	14.08.20
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	Approved (Project Director)	S.DOUGLAS*	Title	EXAMPLE OF SEDIMENT CONTROL	
	Date	14.08.2020		STANDARD DETAILS	
	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved		Original Size A1	Drawing No: 51-12506381-01-C804

