

ENVIROGUARD PTY LTD

ERSKINE PARK LANDFILL - MSE WALL DESIGN



LOCALITY PLAN
SCALE: 1:5 mm

DRAWING LIST

SHEET No.	DATE	REV No	SHEET TITLE	ISSUE
001	2020-04-08	A	COVER SHEET	PRELIMINARY
003	2020-04-08	A	EXISTING SITE CONDITIONS AND SERVICES	PRELIMINARY
004	2020-04-08	A	GENERAL ARRANGEMENT PLAN	PRELIMINARY
011	2020-04-08	A	STAGE 1 - RETAINING WALL PLAN	PRELIMINARY
012	2020-04-08	A	STAGE 1 - FILLING PLAN (TOP OF WASTE)	PRELIMINARY
021	2020-04-08	A	STAGE 2 - RETAINING WALL PLAN	PRELIMINARY
022	2020-04-08	A	STAGE 2 - FILLING PLAN (TOP OF WASTE)	PRELIMINARY
030	2020-04-08	A	PLAN AND LONGSECTION - SHEET 1 OF 2	PRELIMINARY
031	2020-04-08	A	PLAN AND LONGSECTION - SHEET 2 OF 2	PRELIMINARY
032	2020-04-08	A	SITE CROSS SECTIONS	PRELIMINARY
040	2020-04-08	A	RETAINING WALL TYPICAL SECTIONS SHEET 1 OF 2	PRELIMINARY
041	2020-04-08	A	RETAINING WALL TYPICAL SECTIONS SHEET 2 OF 2	PRELIMINARY
042	2020-04-08	A	REINFORCING SECTIONS	PRELIMINARY
050	2020-04-08	A	TYPICAL LINER DETAILS	PRELIMINARY

NOTES

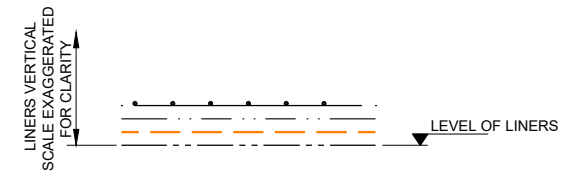
- THESE NOTES APPLY TO ALL PROJECT DRAWINGS IN THE SET UNLESS NOTED OTHERWISE AND SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION.
- ALL LEVELS ARE IN METRES TO AHD DATUM.
- ALL CO-ORDINATES ARE IN METRES TO MAP GRID AUSTRALIA (MGA 94, ZONE 56).
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE
- LOCATION AND DEPTH OF ALL SERVICES TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS.
- DIMENSIONS SHALL NOT BE SCALED OFF DRAWINGS.
- DRAWINGS MUST BE PRINTED IN COLOUR TO CORRECTLY IDENTIFY ALL DESIGN ELEMENTS

REFERENCES

- SITE BOUNDARIES TAKEN FROM FILE "2220BASE.dwg"
- AERIAL IMAGERY PROVIDED BY CLIENT "Erskine_Park_2019_12_04_map.ecw"
- EXISTING GROUND IS COMBINATION OF THE FOLLOWING DATA SOURCES, ORDERED BY PRIORITY (1 IS LOWEST)
 - SITE SURVEY FROM CLIENT "2019_12_04_Erskine_Park_3m_Grid_Faces.dxf"
 - EAST EMBANKMENT SURVEY "2220DET08.dwg" CAPTURE DATE 2020-02-18
 - GHD "TOP OF WASTE" LANDFORM "21-19620-ERSKINE PARK DESN 20190314.dwg"
- INTERNAL LANDFILL GAS INFRASTRUCTURE TAKEN FROM "RE-ERSKINE-001_ERSKINE PARK.dwg" AND POSITIONED MANUALLY USING AERIAL PHOTOGRAPHY. ACCURACY +/- 5m
- EXTERNAL LANDFILL GAS INFRASTRUCTURE DIGITIZED FROM DBYD PDF "DBYD easement maps.pdf" SURVEYOR REF # 111783514_00 CAPTURE DATE 2014-07-01. ACCURACY +/- 5m
- INFERRED WASTE BOUNDARY/EDGE OF SIDELINER TAKEN FROM "SS17375_INFERRED EDGE OF SIDELINER (2020.02.04)_3D LINES.dwg"

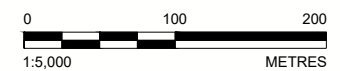
LINER VERTICAL EXAGGERATION DETAILS

- LINER MATERIALS HAVE BEEN EXAGGERATED ON ALL PLANS AS IN DETAIL BELOW



- LINER MAY COVER PIPES AND MATERIALS ON DETAILS

NOT FOR CONSTRUCTION
PRELIMINARY



REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
A	2020-04-08	FOR APPROVAL	PR/JR	BK/JF	GRS	GRS

CLIENT
ENVIROGUARD PTY LTD

CONSULTANT



BRISBANE OFFICE
147 CORONATION DRIVE
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AUSTRALIA
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www.golder.com

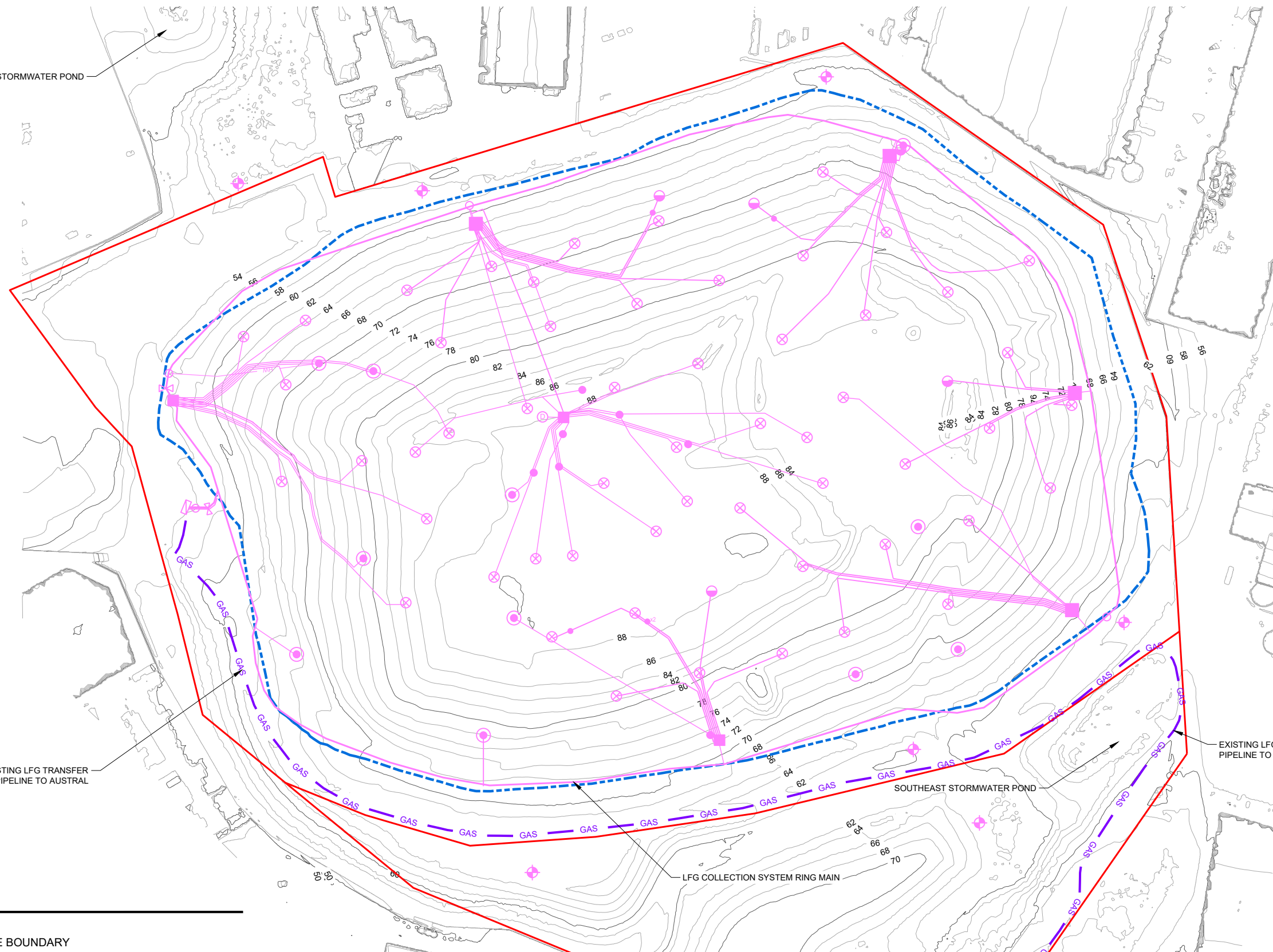
PROJECT
ERSKINE PARK LANDFILL
MSE WALL DESIGN

TITLE
COVER SHEET

PROJECT NO. 19135652 CONTROL 005 REV. A 28 of 26 DRAWING 001



NORTHWEST STORMWATER POND



PLAN LEGEND

- LICENSED SITE BOUNDARY
- - - INFERRED WASTE BOUNDARY / EDGE OF SIDE LINER
- INTERNAL GAS INFRASTRUCTURE
- EXISTING GROUND CONTOURS



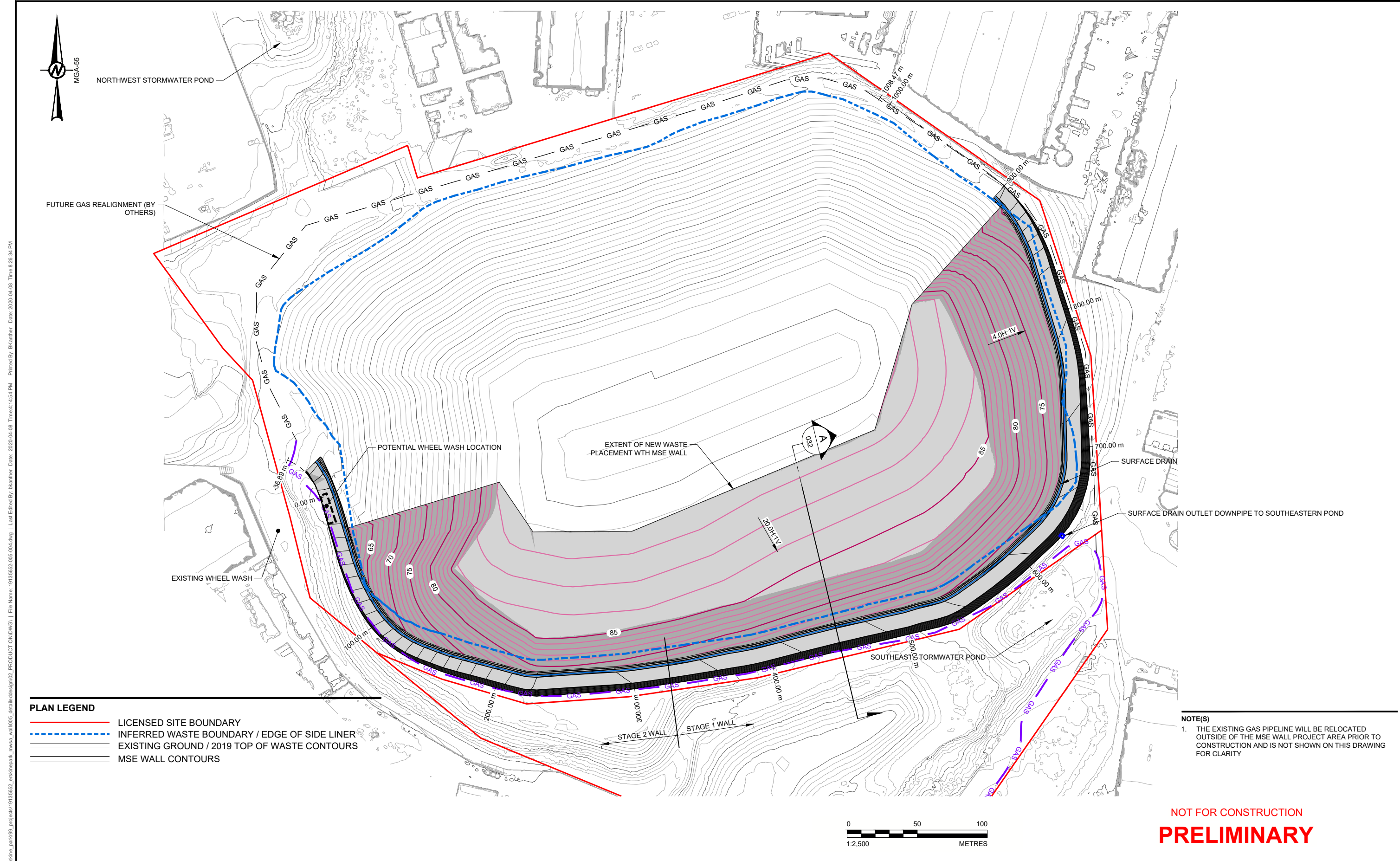
NOT FOR CONSTRUCTION
PRELIMINARY

	CLIENT	ENVIROGUARD PTY LTD			
	CONSULTANT	GOLDER BRISBANE OFFICE 147 CORONATION DRIVE MILTON, QLD 4064 AUSTRALIA [+61] (7) 3721 5400 www.golder.com			
	PROJECT	ERSKINE PARK LANDFILL MSE WALL DESIGN			
	TITLE	EXISTING SITE CONDITIONS AND SERVICES			
A	2020-04-08	FOR APPROVAL	PR/JR	BK/JF	GRS GRS
REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED APPROVED

PROJECT NO.	CONTROL	REV.	30 of 26	DRAWING
19135652	005	A		003

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25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ISO A3



PLAN LEGEND

	LICENSED SITE BOUNDARY
	INFERRED WASTE BOUNDARY / EDGE OF SIDE LINER
	EXISTING GROUND / 2019 TOP OF WASTE CONTOURS
	MSE WALL CONTOURS

NOTE(S)

1. THE EXISTING GAS PIPELINE WILL BE RELOCATED OUTSIDE OF THE MSE WALL PROJECT AREA PRIOR TO CONSTRUCTION AND IS NOT SHOWN ON THIS DRAWING FOR CLARITY

NOT FOR CONSTRUCTION
PRELIMINARY



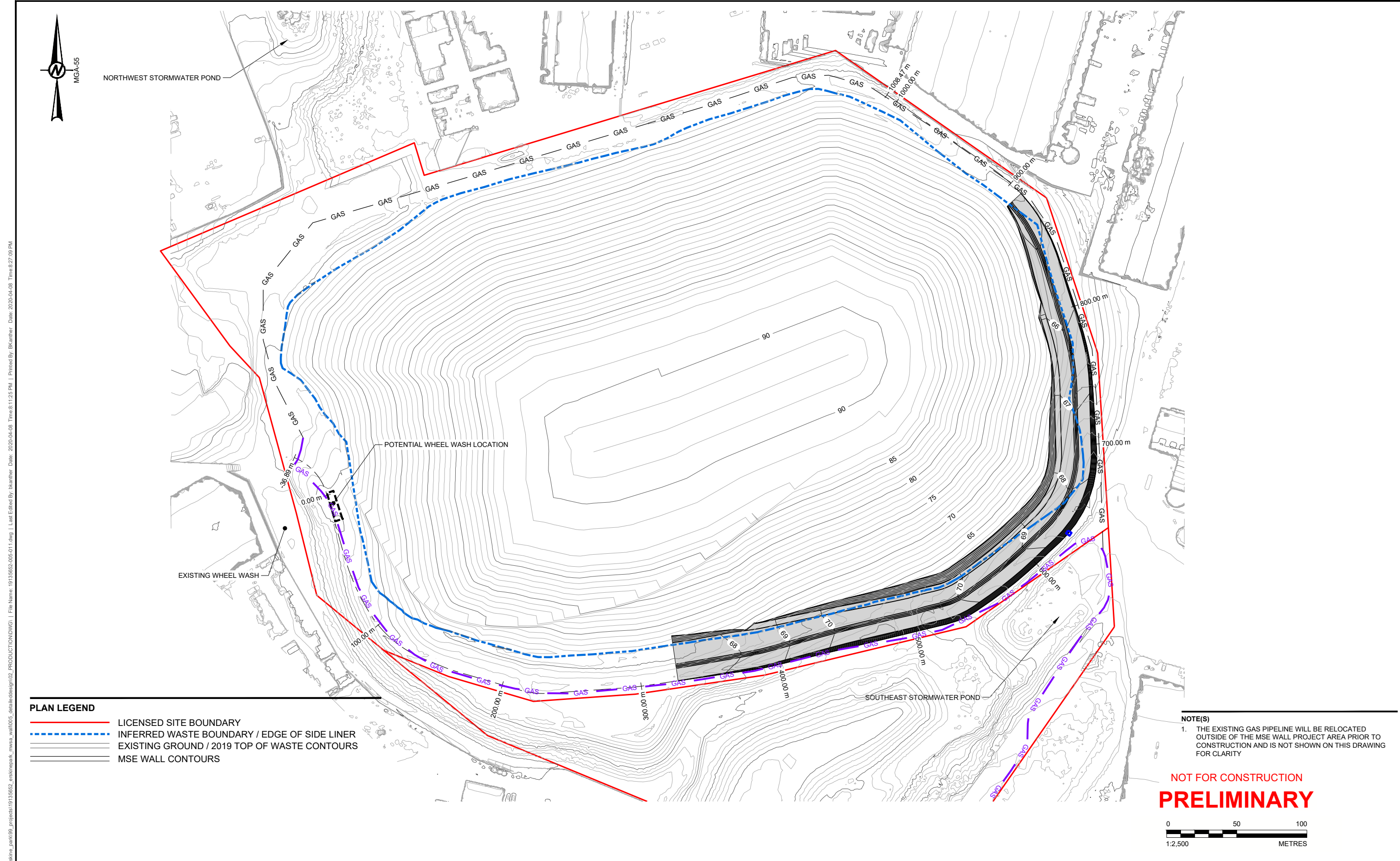
CLIENT		ENVIROGUARD PTY LTD	
CONSULTANT		GOLDER	
PROJECT		ERSKINE PARK LANDFILL MSE WALL DESIGN	
TITLE		GENERAL ARRANGEMENT PLAN	
PROJECT NO.	CONTROL	REV.	31 of 26
19135652	005	A	
DESIGNED		APPROVED	
PR/JR	BK/JF	GRS	GRS
DESIGNED		APPROVED	
PR/JR	BK/JF	GRS	GRS

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PROJECT NO.	CONTROL	REV.	31 of 26	DRAWING
19135652	005	A		004

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PLAN LEGEND

	LICENSED SITE BOUNDARY
	INFERRED WASTE BOUNDARY / EDGE OF SIDE LINER
	EXISTING GROUND / 2019 TOP OF WASTE CONTOURS
	MSE WALL CONTOURS

NOTE(S)

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PRELIMINARY

0 50 100
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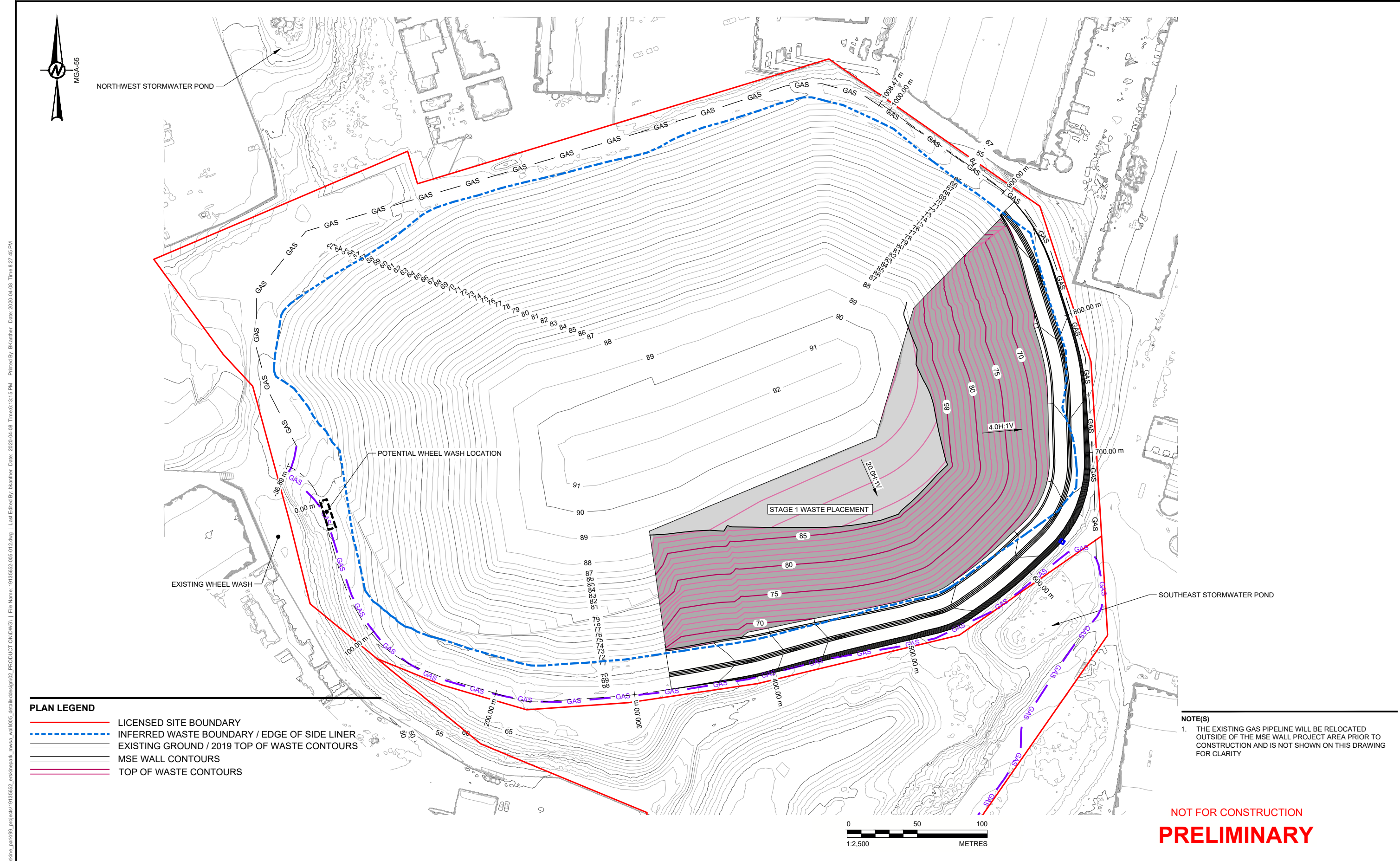
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CLIENT		ENVIROGUARD PTY LTD	
CONSULTANT			
PROJECT		ERSKINE PARK LANDFILL MSE WALL DESIGN	
TITLE		STAGE 1 - RETAINING WALL PLAN	
PROJECT NO.	CONTROL	REV.	33 of 26
19135652	005	A	011
DESIGNED		PR/JR BK/JF GRS GRS	
PREPARED		DESIGNED PREPARED REVIEWED APPROVED	

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PROJECT NO.	CONTROL	REV.	33 of 26	DRAWING
19135652	005	A		011

25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ISO A3



PLAN LEGEND

	LICENSED SITE BOUNDARY
	INFERRED WASTE BOUNDARY / EDGE OF SIDE LINER
	EXISTING GROUND / 2019 TOP OF WASTE CONTOURS
	MSE WALL CONTOURS
	TOP OF WASTE CONTOURS

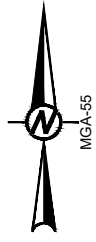
NOTE(S)

1. THE EXISTING GAS PIPELINE WILL BE RELOCATED OUTSIDE OF THE MSE WALL PROJECT AREA PRIOR TO CONSTRUCTION AND IS NOT SHOWN ON THIS DRAWING FOR CLARITY

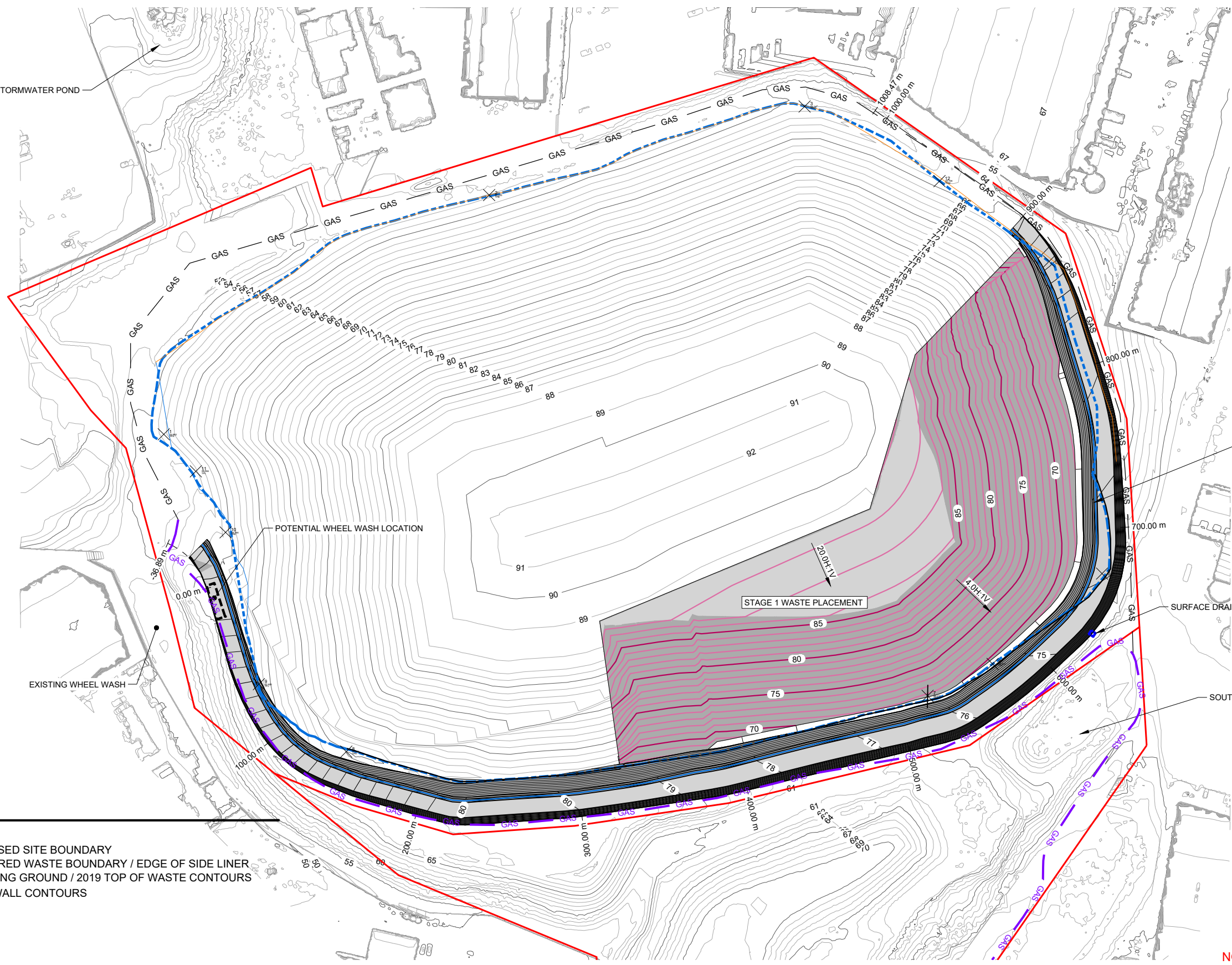
NOT FOR CONSTRUCTION
PRELIMINARY

CLIENT ENVIROGUARD PTY LTD		PROJECT ERSKINE PARK LANDFILL MSE WALL DESIGN	
CONSULTANT 		TITLE STAGE 1 - FILLING PLAN (TOP OF WASTE)	
BRISBANE OFFICE 147 CORONATION DRIVE MILTON, QLD 4064 AUSTRALIA [+61] (7) 3721 5400 www.golder.com		PROJECT NO. 19135652	CONTROL 005
A 2020-04-08 FOR APPROVAL		REV. 34 of 26	DRAWING 012

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 MGA-55



NORTHWEST STORMWATER POND



SURFACE DRAIN

SURFACE DRAIN OUTLET DOWNPIPE TO SOUTHEASTERN POND

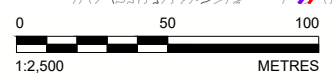
SOUTHEAST STORMWATER POND

PLAN LEGEND

- LICENSED SITE BOUNDARY
- - - INFERRED WASTE BOUNDARY / EDGE OF SIDE LINER
- EXISTING GROUND / 2019 TOP OF WASTE CONTOURS
- MSE WALL CONTOURS

NOTE(S)

1. THE EXISTING GAS PIPELINE WILL BE RELOCATED OUTSIDE OF THE MSE WALL PROJECT AREA PRIOR TO CONSTRUCTION AND IS NOT SHOWN ON THIS DRAWING FOR CLARITY



**NOT FOR CONSTRUCTION
PRELIMINARY**

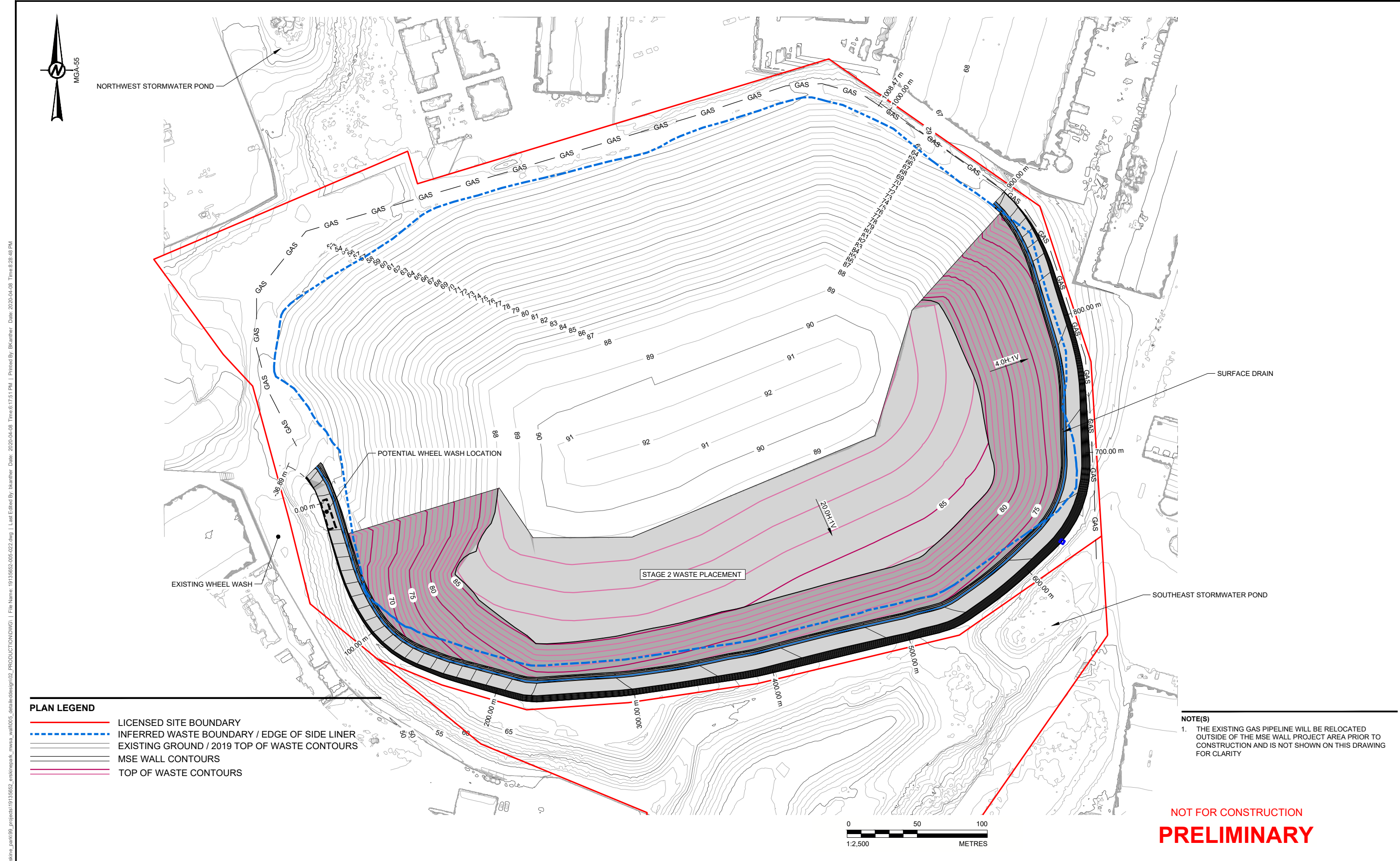
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PROJECT	ERSKINE PARK LANDFILL MSE WALL DESIGN						
CONSULTANT	GOLDER BRISBANE OFFICE 147 CORONATION DRIVE MILTON, QLD 4064 AUSTRALIA [+61] (7) 3721 5400 www.golder.com						
TITLE	STAGE 2 - RETAINING WALL PLAN						
PROJECT NO.	19135652	CONTROL	005	REV.	36 of 26	DRAWING	021
REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED	
A	2020-04-08	FOR APPROVAL	PR/JR	BK/JF	GRS	GRS	

CLIENT	ENVIROGUARD PTY LTD						
PROJECT	ERSKINE PARK LANDFILL MSE WALL DESIGN						
CONSULTANT	GOLDER BRISBANE OFFICE 147 CORONATION DRIVE MILTON, QLD 4064 AUSTRALIA [+61] (7) 3721 5400 www.golder.com						
TITLE	STAGE 2 - RETAINING WALL PLAN						
PROJECT NO.	19135652	CONTROL	005	REV.	36 of 26	DRAWING	021
REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED	
A	2020-04-08	FOR APPROVAL	PR/JR	BK/JF	GRS	GRS	

CLIENT	ENVIROGUARD PTY LTD						
PROJECT	ERSKINE PARK LANDFILL MSE WALL DESIGN						
CONSULTANT	GOLDER BRISBANE OFFICE 147 CORONATION DRIVE MILTON, QLD 4064 AUSTRALIA [+61] (7) 3721 5400 www.golder.com						
TITLE	STAGE 2 - RETAINING WALL PLAN						
PROJECT NO.	19135652	CONTROL	005	REV.	36 of 26	DRAWING	021
REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED	
A	2020-04-08	FOR APPROVAL	PR/JR	BK/JF	GRS	GRS	

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25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ISO A3



PLAN LEGEND

	LICENSED SITE BOUNDARY
	INFERRED WASTE BOUNDARY / EDGE OF SIDE LINER
	EXISTING GROUND / 2019 TOP OF WASTE CONTOURS
	MSE WALL CONTOURS
	TOP OF WASTE CONTOURS

NOTE(S)

1. THE EXISTING GAS PIPELINE WILL BE RELOCATED OUTSIDE OF THE MSE WALL PROJECT AREA PRIOR TO CONSTRUCTION AND IS NOT SHOWN ON THIS DRAWING FOR CLARITY

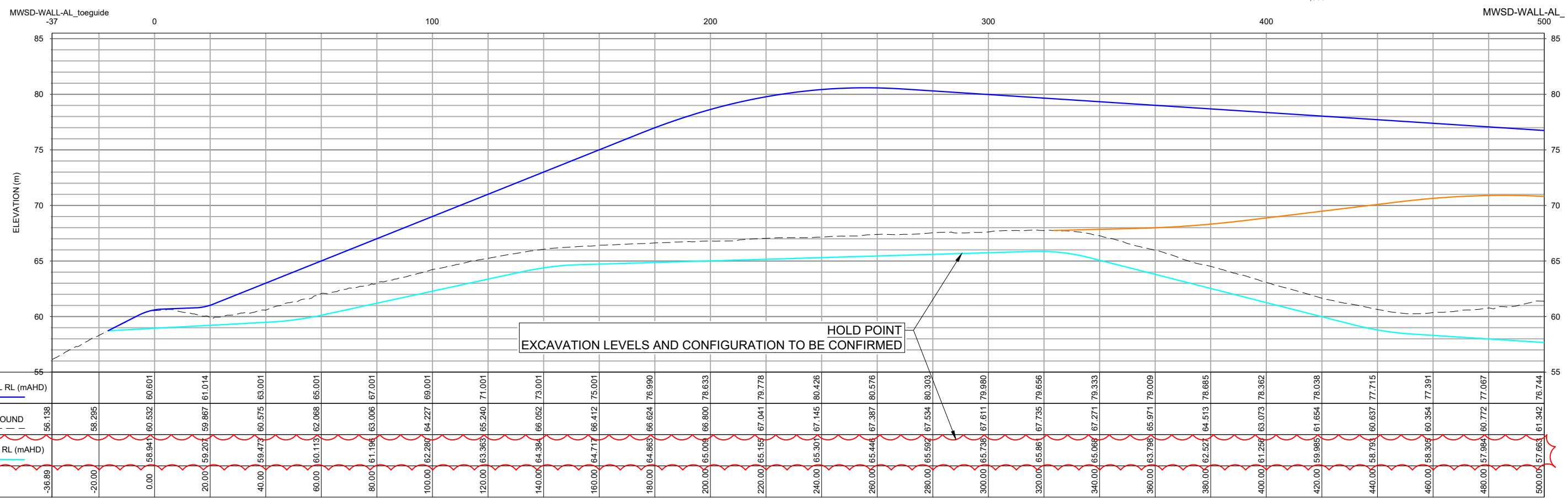
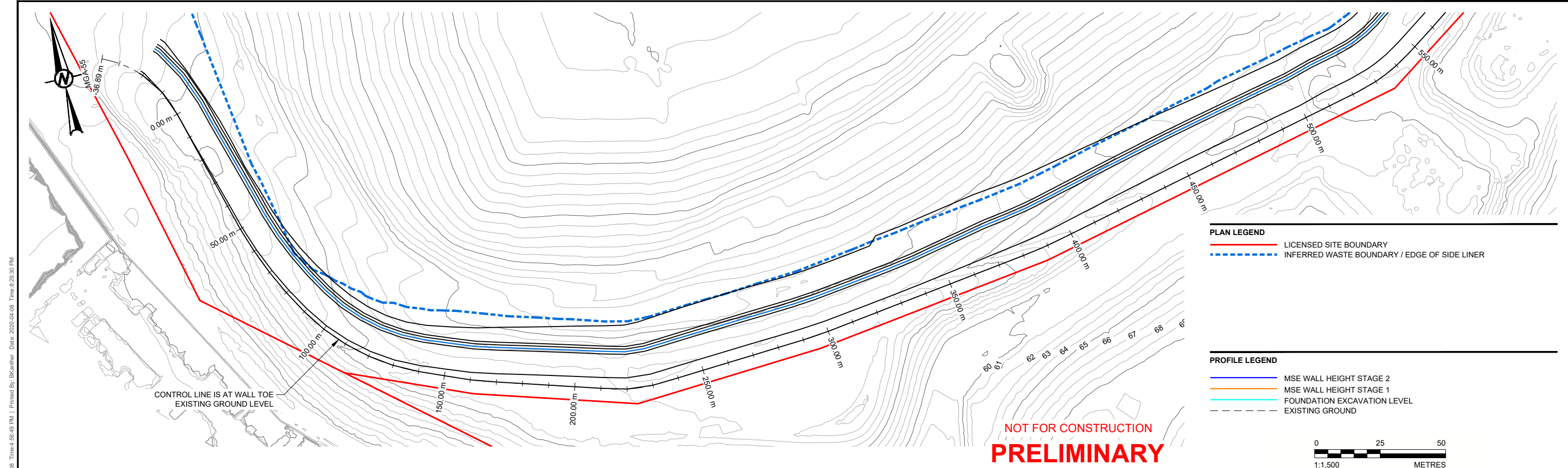
NOT FOR CONSTRUCTION
PRELIMINARY

CLIENT		ENVIROGUARD PTY LTD	
CONSULTANT			
PROJECT		ERSKINE PARK LANDFILL MSE WALL DESIGN	
TITLE		STAGE 2 - FILLING PLAN (TOP OF WASTE)	
PROJECT NO.	CONTROL	REV.	37 of 26
19135652	005	A	022
DESIGNED		APPROVED	
PR/JR	BK/JF	GRS	GRS
DESIGNED		APPROVED	
PR/JR	BK/JF	GRS	GRS

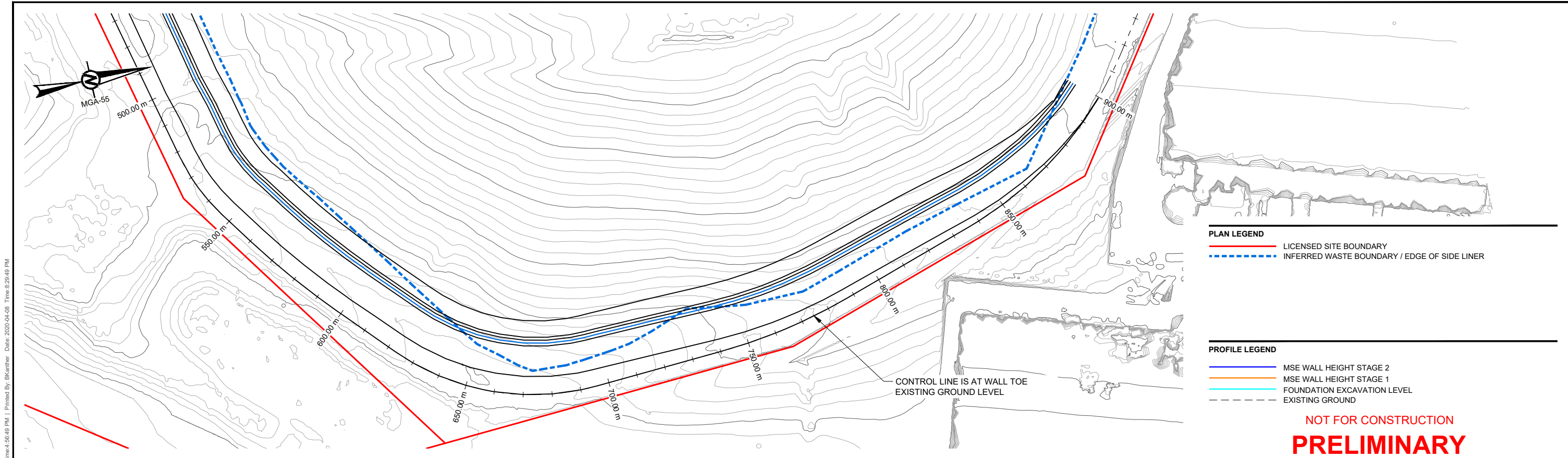
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PROJECT NO.	CONTROL	REV.	37 of 26	DRAWING
19135652	005	A		022

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 MGA-55
 NORTHWEST STORMWATER POND
 POTENTIAL WHEEL WASH LOCATION
 EXISTING WHEEL WASH
 SURFACE DRAIN
 SOUTHEAST STORMWATER POND
 STAGE 2 WASTE PLACEMENT
 NOTE(S)
 1. THE EXISTING GAS PIPELINE WILL BE RELOCATED OUTSIDE OF THE MSE WALL PROJECT AREA PRIOR TO CONSTRUCTION AND IS NOT SHOWN ON THIS DRAWING FOR CLARITY
 NOT FOR CONSTRUCTION
 PRELIMINARY
 CLIENT
 ENVIROGUARD PTY LTD
 CONSULTANT
 BRISBANE OFFICE
 147 CORONATION DRIVE
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 AUSTRALIA
 +61 (7) 3721 5400
 www.golder.com
 PROJECT
 ERSKINE PARK LANDFILL
 MSE WALL DESIGN
 TITLE
 STAGE 2 - FILLING PLAN (TOP OF WASTE)
 PROJECT NO.
 19135652
 CONTROL
 005
 REV.
 A
 37 of 26
 DRAWING
 022
 IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ISO A3

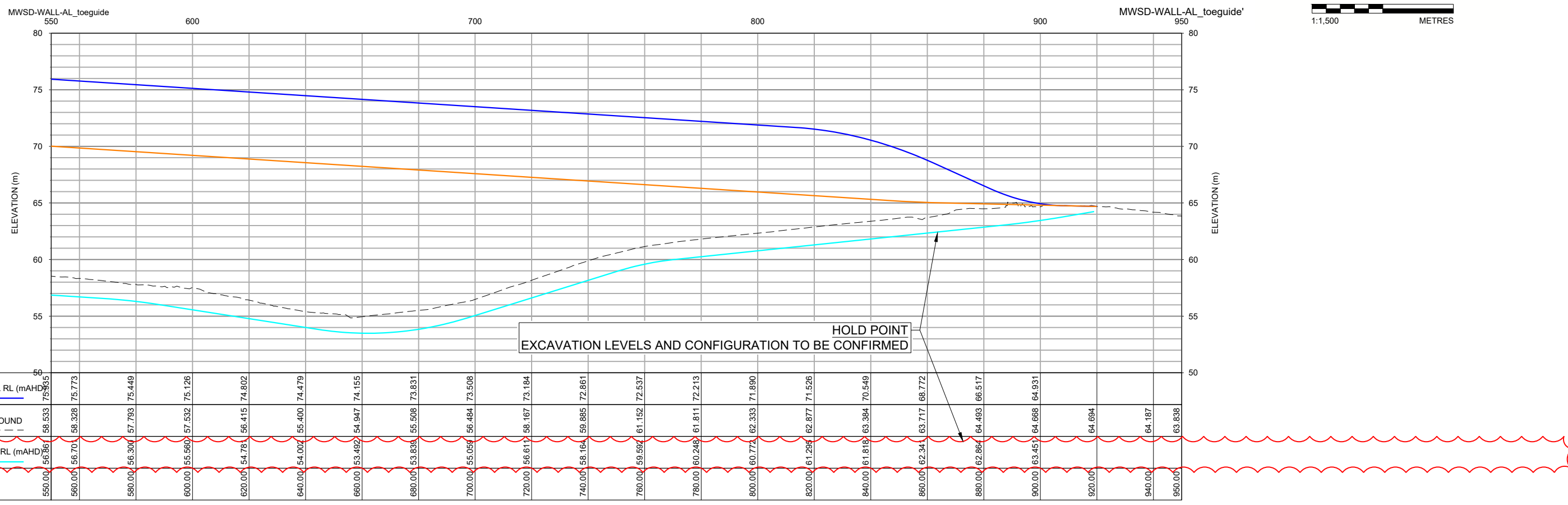


CLIENT ENVIROGUARD PTY LTD				PROJECT ERSKINE PARK LANDFILL MSE WALL DESIGN			
CONSULTANT GOLDER				TITLE PLAN AND LONGSECTION - SHEET 1 OF 2			
BRISBANE OFFICE 147 CORONATION DRIVE MILTON, QLD 4064 AUSTRALIA [+61] (7) 3721 5400 www.golder.com				PROJECT NO. 19135652 CONTROL 005 REV. A 39 of 26 DRAWING 030			
A 2020-04-08 FOR APPROVAL REV. YYYY-MM-DD DESCRIPTION	PR/JR BK/JF GRS GRS DESIGNED PREPARED REVIEWED APPROVED	PR/JR BK/JF GRS GRS DESIGNED PREPARED REVIEWED APPROVED		PR/JR BK/JF GRS GRS DESIGNED PREPARED REVIEWED APPROVED		PR/JR BK/JF GRS GRS DESIGNED PREPARED REVIEWED APPROVED	



- PLAN LEGEND**
- LICENSED SITE BOUNDARY
 - INFERRED WASTE BOUNDARY / EDGE OF SIDE LINER
- PROFILE LEGEND**
- MSE WALL HEIGHT STAGE 2
 - MSE WALL HEIGHT STAGE 1
 - FOUNDATION EXCAVATION LEVEL
 - EXISTING GROUND

**NOT FOR CONSTRUCTION
PRELIMINARY**



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25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ISO A3

CLIENT
ENVIROGUARD PTY LTD

PROJECT
**ERSKINE PARK LANDFILL
MSE WALL DESIGN**

CONSULTANT

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TITLE
PLAN AND LONGSECTION - SHEET 2 OF 2

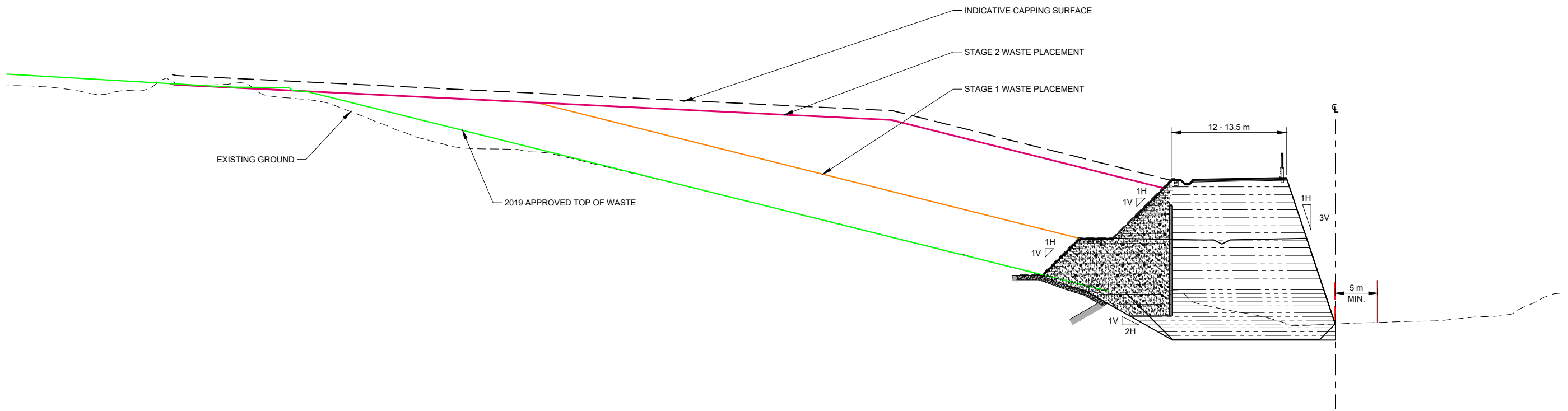
REV.	YYYY-MM-DD	DESCRIPTION
A	2020-04-08	FOR APPROVAL

DESIGNED	PREPARED	REVIEWED	APPROVED
PR/JR	BK/JF	GRS	GRS



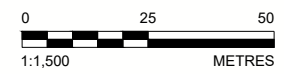
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19135652	005	A		031

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SCALE 1:1,500 m (A) 004 SITE CROSS SECTION

NOT FOR CONSTRUCTION
PRELIMINARY



REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
A	2020-04-08	FOR APPROVAL	PR/JR	BK/JF	GRS	GRS

CLIENT
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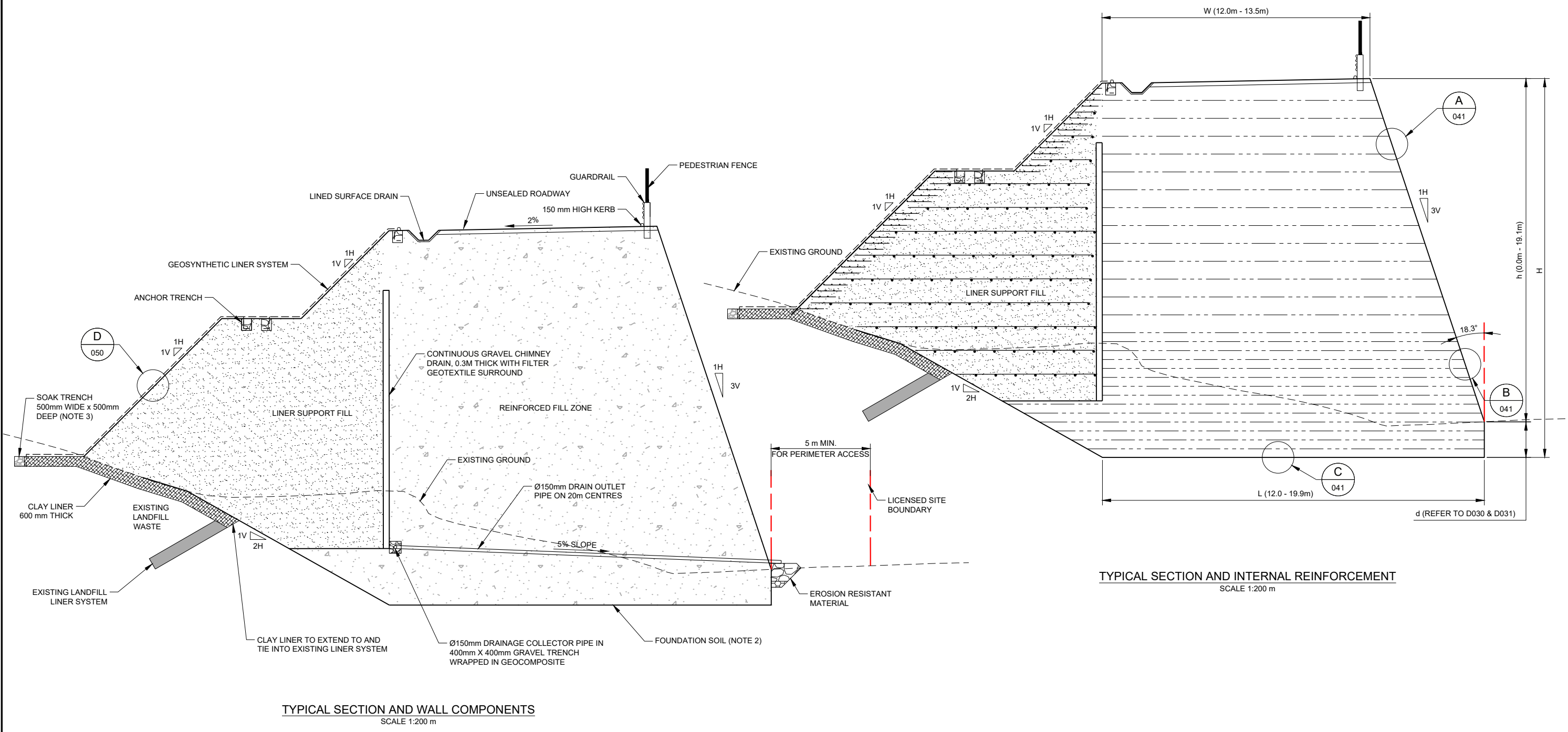
PROJECT
ERSKINE PARK LANDFILL
MSE WALL DESIGN

TITLE
SITE CROSS SECTIONS

PROJECT NO.	CONTROL	REV.	41 of 26	DRAWING
19135652	005	A		032

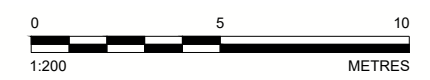
25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ISO A3

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- NOTE(S)**
- FOR GENERAL NOTES, REFER TO DRAWING 001.
 - ANTICIPATED FOUNDATION MATERIAL AND ITS CONSISTENCY WILL BE CONFIRMED PRIOR TO THE INSTALLATION OF MSE WALL.
 - SOAK TRENCH REQUIRED IN PORTIONS OF THE WALL WHERE LINER SUPPORTING FILL IS LOCATED WITHIN FOOTPRINT OF EXISTING LANDFILL WASTE.

NOT FOR CONSTRUCTION
PRELIMINARY

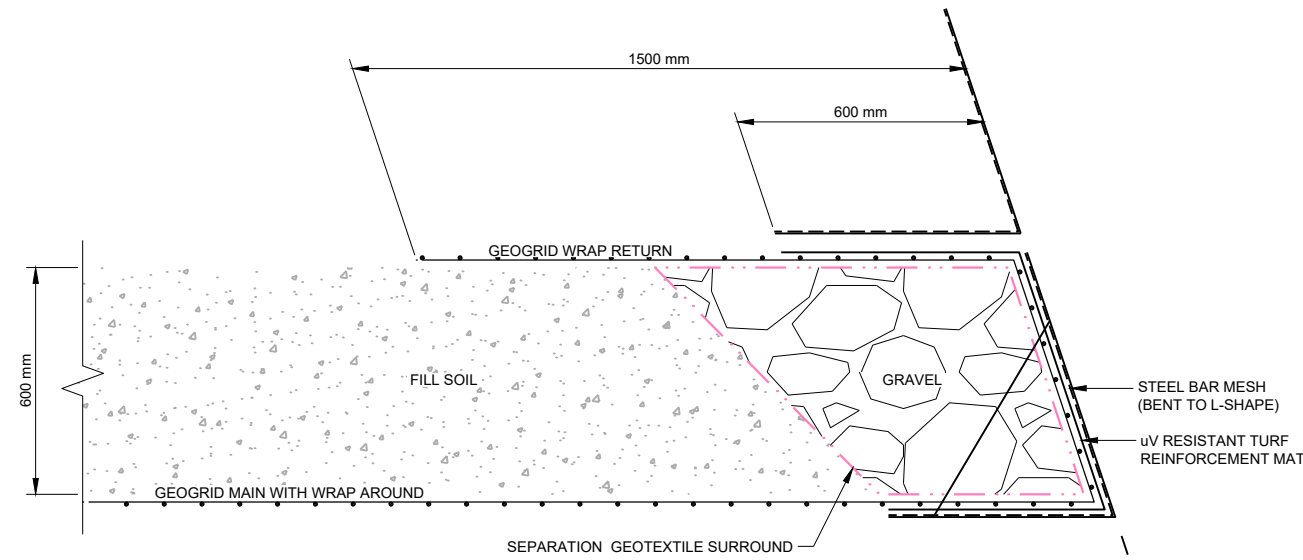


REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
A	2020-04-08	FOR APPROVAL	PR/JR	BK/JF	GRS	GRS

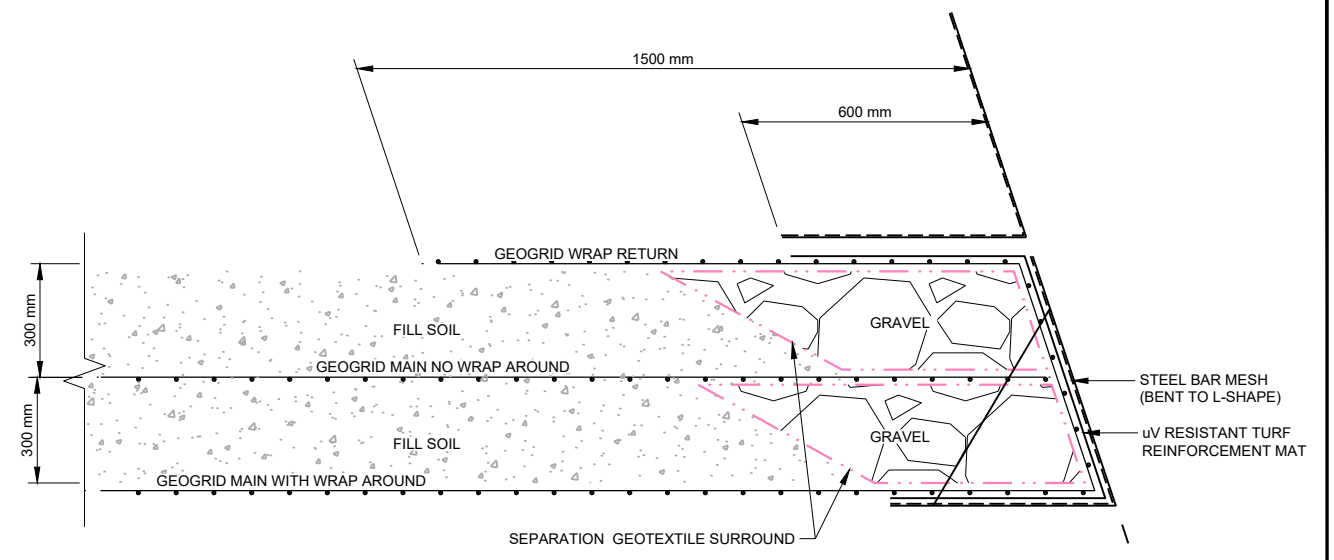
<p>CLIENT ENVIROGUARD PTY LTD</p> <p>CONSULTANT GOLDER</p>	<p>BRISBANE OFFICE 147 CORONATION DRIVE MILTON, QLD 4064 AUSTRALIA +61 (7) 3721 5400 www.golder.com</p>	<p>PROJECT ERSKINE PARK LANDFILL MSE WALL DESIGN</p> <p>TITLE RETAINING WALL TYPICAL SECTIONS SHEET 1 OF 2</p>	<p>PROJECT NO. 19135652</p> <p>CONTROL 005</p> <p>REV. 42 of 26</p> <p>REVISION A</p> <p>DRAWING 040</p>
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25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ISO A3

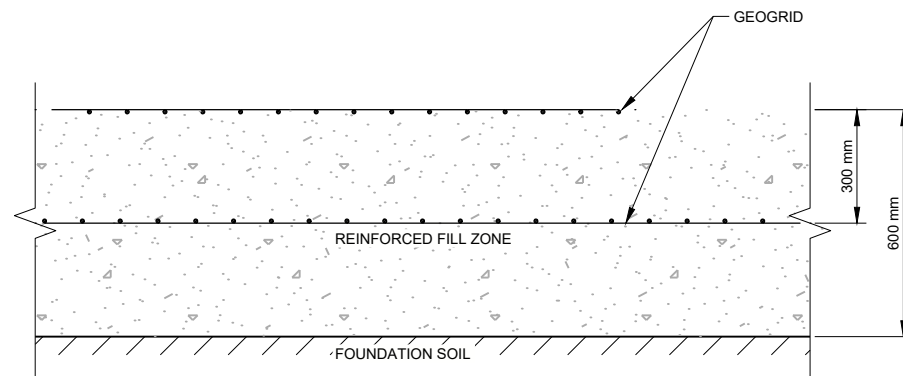
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SCALE 1:20 m **A** DETAIL A
040



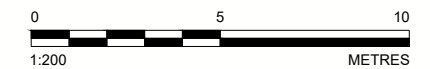
SCALE 1:20 m **B** DETAIL B
040



SCALE 1:20 m **C** DETAIL C
040

NOTE(S)
1. FOR GENERAL NOTES, REFER TO DRAWING 001

NOT FOR CONSTRUCTION
PRELIMINARY

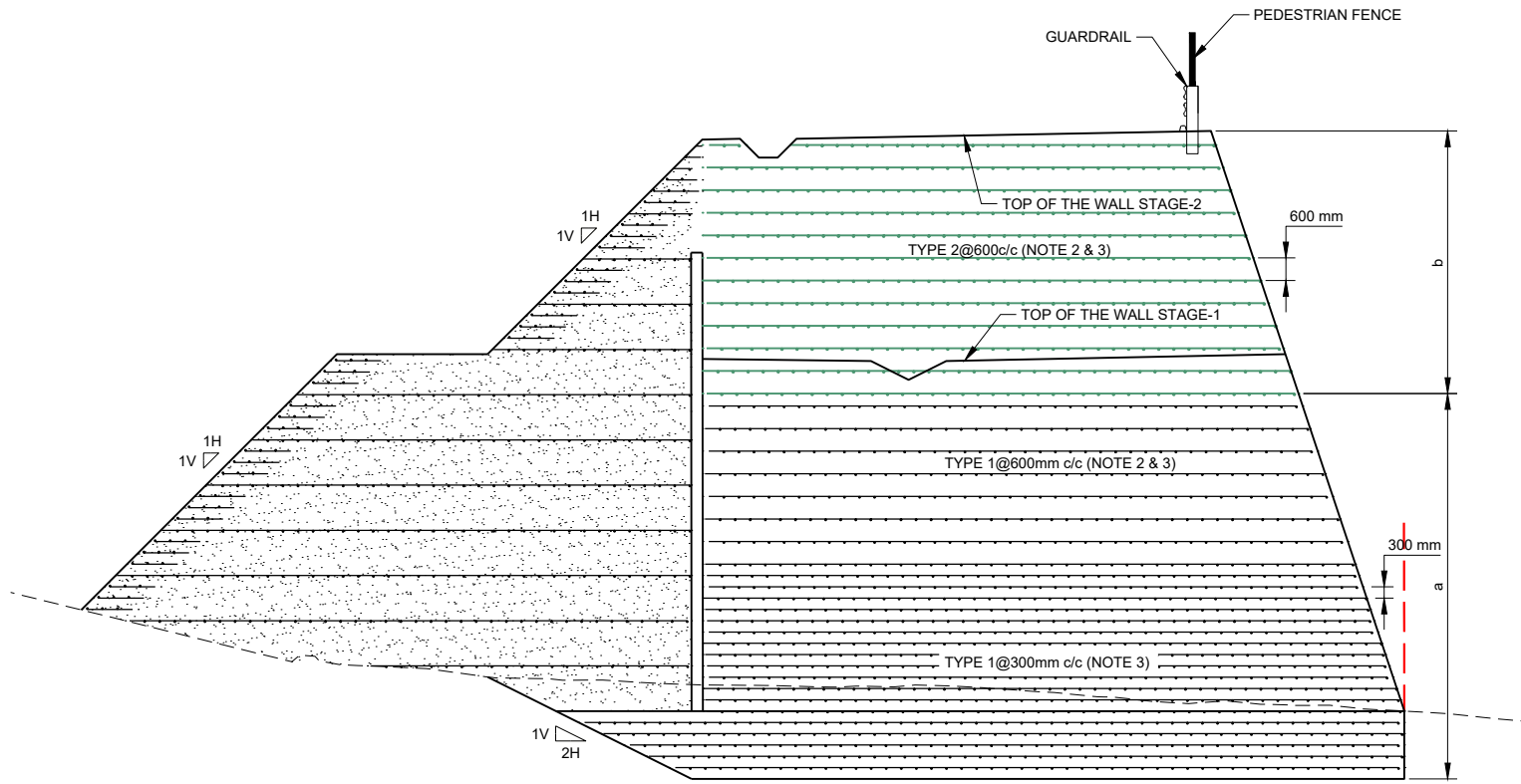


REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
A	2020-04-08	FOR APPROVAL	PR/JR	BK/JF	GRS	GRS

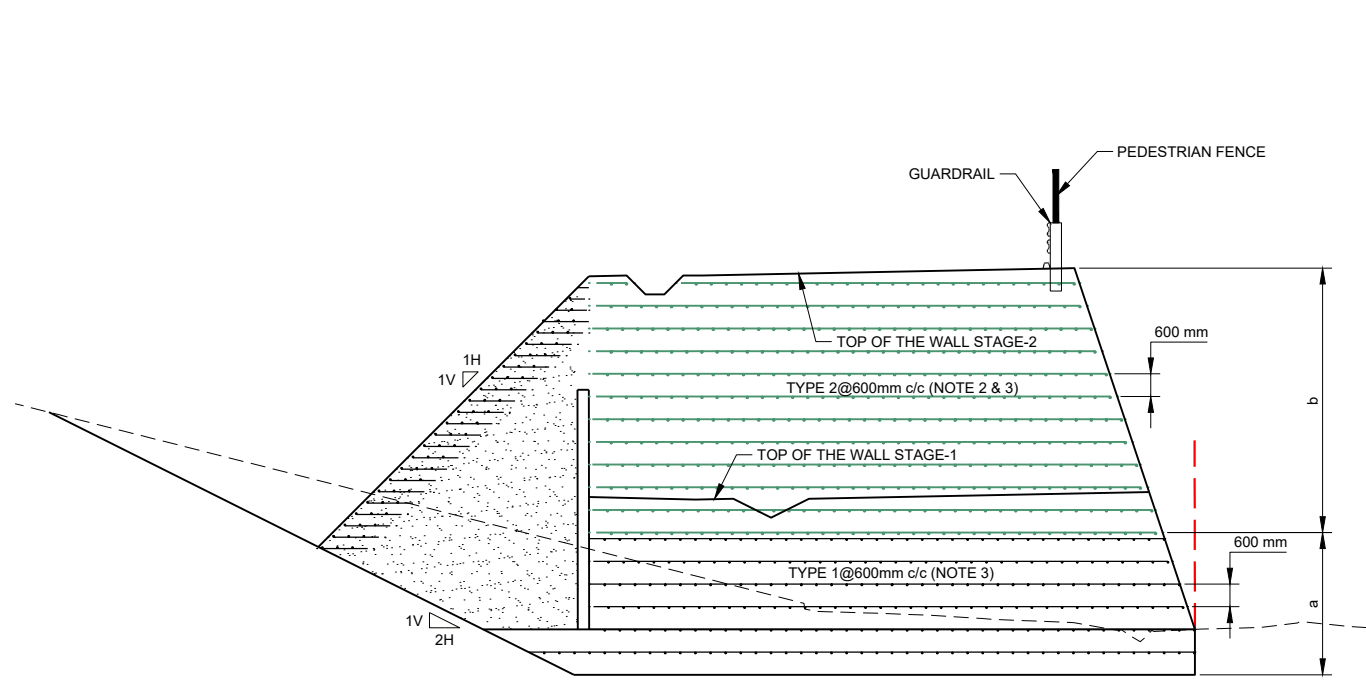
CLIENT ENVIROGUARD PTY LTD	PROJECT ERSKINE PARK LANDFILL MSE WALL DESIGN
CONSULTANT GOLDER	TITLE RETAINING WALL TYPICAL SECTIONS SHEET 2 OF 2
BRISBANE OFFICE 147 CORONATION DRIVE MILTON, QLD 4064 AUSTRALIA [+61] (7) 3721 5400 www.golder.com	PROJECT NO. 19135652
	CONTROL 005
	REV. 43 of 26 A
	DRAWING 041

25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ISO A3

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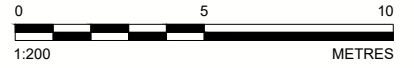
CH 600.000



CH 800.000

- NOTE(S)**
1. FOR GENERAL NOTES, REFER TO DRAWING 001.
 2. THE LENGTH OF THE REINFORCEMENT WILL BE OPTIMIZED DURING THE DETAILED DESIGN.
 3. TYPE 1 AND TYPE 2 ARE GEOGRIDS WITH ULTIMATE STRENGTH OF 200kN/m AND 120kN/m RESPECTIVELY.

NOT FOR CONSTRUCTION
PRELIMINARY



REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
A	2020-04-08	FOR APPROVAL	PR/JR	BK/JF	GRS	GRS

CLIENT
ENVIROGUARD PTY LTD

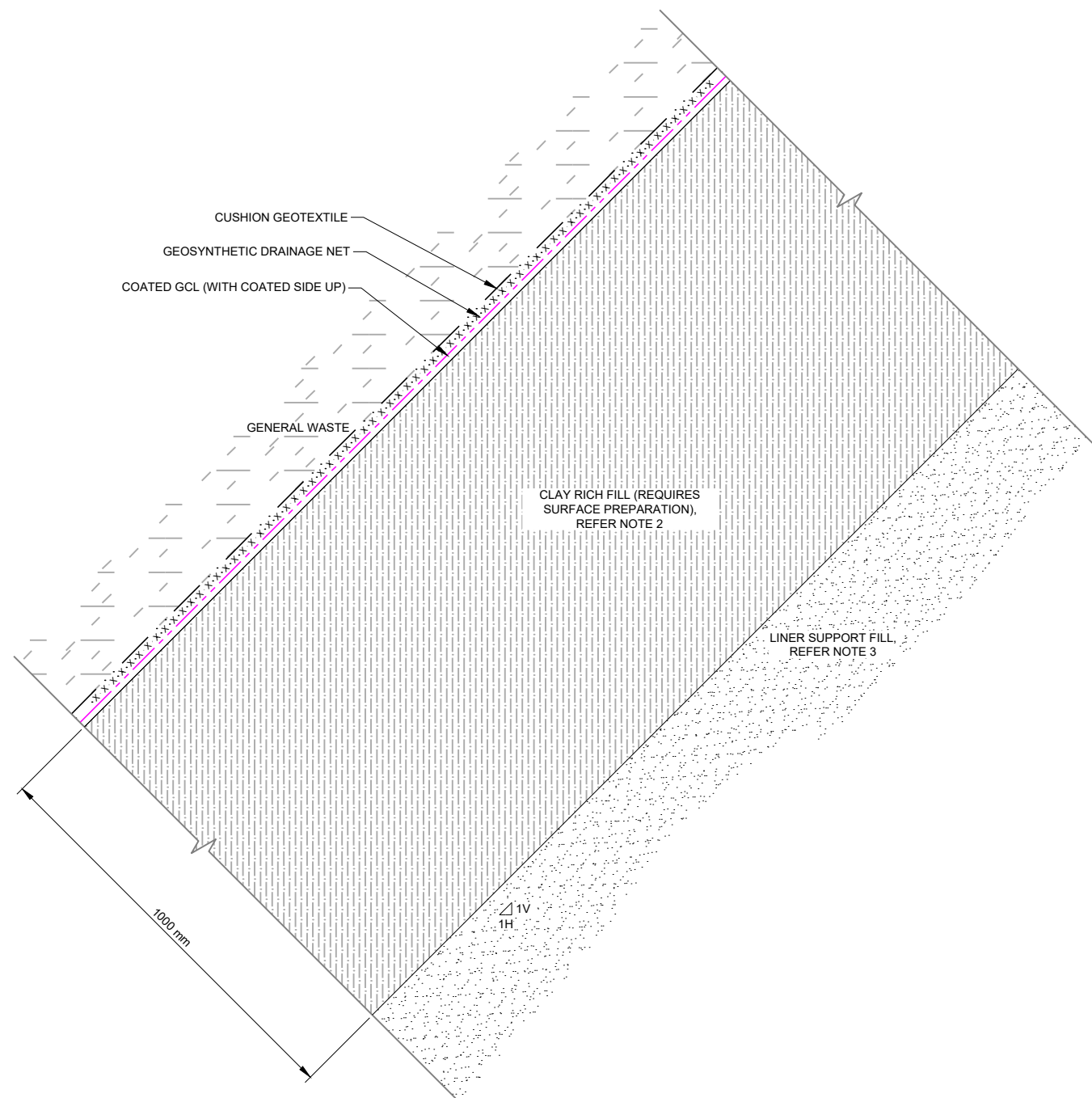
CONSULTANT

BRISBANE OFFICE
 147 CORONATION DRIVE
 MILTON, QLD 4064
 AUSTRALIA
 [+61] (7) 3721 5400
 www.golder.com

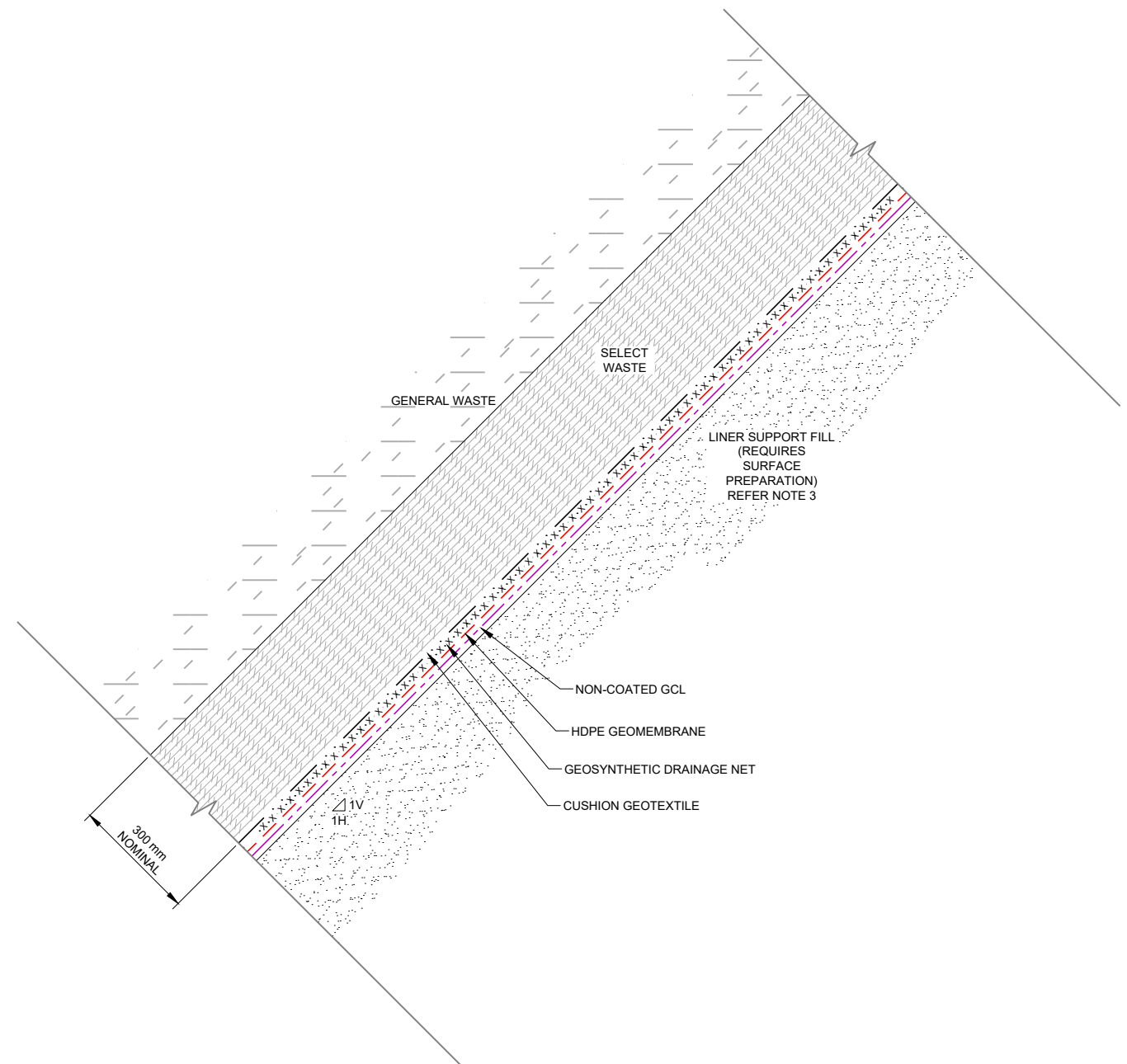
PROJECT ERSKINE PARK LANDFILL MSE WALL DESIGN	TITLE REINFORCING SECTIONS
PROJECT NO. 19135652	CONTROL 005
REV. A	44 of 26 DRAWING 042

25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ISO A3

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TYPICAL LINER DETAIL - OPTION 1
SCALE 1:15 m

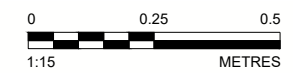


TYPICAL LINER DETAIL - OPTION 2
SCALE 1:15 m

NOTE(S)

1. FOR GENERAL NOTES, REFER TO DRAWING 001.
2. CLAY RICH MATERIAL INSTALLED AS OUTER EDGE OF LINER SUPPORT FILL.
3. REINFORCEMENT WITHIN LINER SUPPORT FILL NOT SHOWN FOR CLARITY. REFER TO DRAWINGS 040 TO 042.

NOT FOR CONSTRUCTION
PRELIMINARY



REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
A	2020-04-08	FOR APPROVAL	PR	BK/SD	GRS	GRS

CLIENT ENVIROGUARD PTY LTD	PROJECT ERSKINE PARK LANDFILL MSE WALL DESIGN
CONSULTANT GOLDER	TITLE TYPICAL LINER DETAILS
BRISBANE OFFICE 147 CORONATION DRIVE MILTON, QLD 4064 AUSTRALIA [+61] (7) 3721 5400 www.golder.com	PROJECT NO. 19135652
	CONTROL 005
	REV. 48 of 26 A
	DRAWING 050

25 mm IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ISO A3