

LIVERPOOL PLAINS SHIRE COUNCIL



WILLOW TREE WASTE MANAGEMENT FACILITY LANDFILL EXTENSION CONCEPT DESIGN

12534581



LOCALITY PLAN
SCALE NTS

DRAWING LIST

DRG No.	DRAWING TITLE
12534581-C001	COVER SHEET, LOCALITY PLAN AND DRAWING LIST
12534581-C002	EXISTING SITE PLAN
12534581-C003	CELL ARRANGEMENT PLAN
12534581-C004	FINAL LANDFORM PLAN
12534581-C005	CONCEPT STAGING PLAN SHEET 1 OF 2
12534581-C006	CONCEPT STAGING PLAN SHEET 2 OF 2
12534581-C007	TYPICAL LONG SECTIONS
12534581-C010	TYPICAL SECTIONS AND DETAILS SHEET 1 OF 2
12534581-C011	TYPICAL SECTIONS AND DETAILS SHEET 2 OF 2

Rev	Description	Checked	Approved	Date
B	FOR APPROVAL			09/12/22
A	INITIAL ISSUE			09/09/22

Author R. LOPEZ Drafting Check
 Designer M. LE Design Check

File Name: \\ghdnet\ghd\AU\Newcastle\Projects\22\12534581\CADD\Drawings\12534581-C001.dwg



Project No.
12534581

Client	LIVERPOOL PLAINS SHIRE COUNCIL
Project	WILLOW TREE WASTE MANAGEMENT FACILITY
Status	FOR APPROVAL

Drawing Title	LANDFILL EXTENSION CONCEPT DESIGN COVER SHEET, LOCALITY PLAN AND DRAWING LIST
Drawing No.	12534581-C001

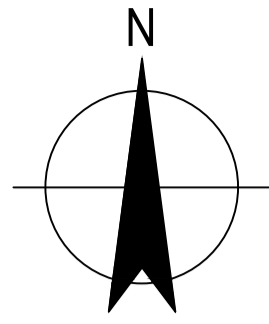
Size
A1
Rev
B

Plot Date: 9 December 2022 - 2:38 PM Plotted by: Mai Le








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Status Code
S4

Drawing No.
12534581-C001



LEGEND

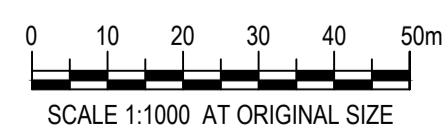
-  500 EXISTING CONTOURS
-  CADASTRE
-  FENCE LINE
-  SEALED ROAD
-  UNSEALED ROAD
-  EXISTING PONDS
-  EXISTING SURFACE WATER DRAINAGE PATH

NOTES:

1. CONTOURS AND CADASTRE TAKEN FROM BATH STEWART ASSOCIATES SURVEY DATED 14/05/20. REF. 20096. AND PHOTOGRAMMETRY BY DIOSPACIAL DATED 31/05/2022.
2. INFERRED WASTE FOOTPRINT BASED ON SITE AERIAL, SITE INSPECTIONS AND GEOTECHNICAL INVESTIGATION (GHD, 2020).
3. ALL LOCATIONS ARE APPROXIMATE.

EXISTING SITE PLAN
SCALE 1:1500

B	FOR APPROVAL		09/12/22
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Rev	Description	Checked	Approved
Author	R. LOPEZ	Drafting Check	
Designer	M. LE	Design Check	



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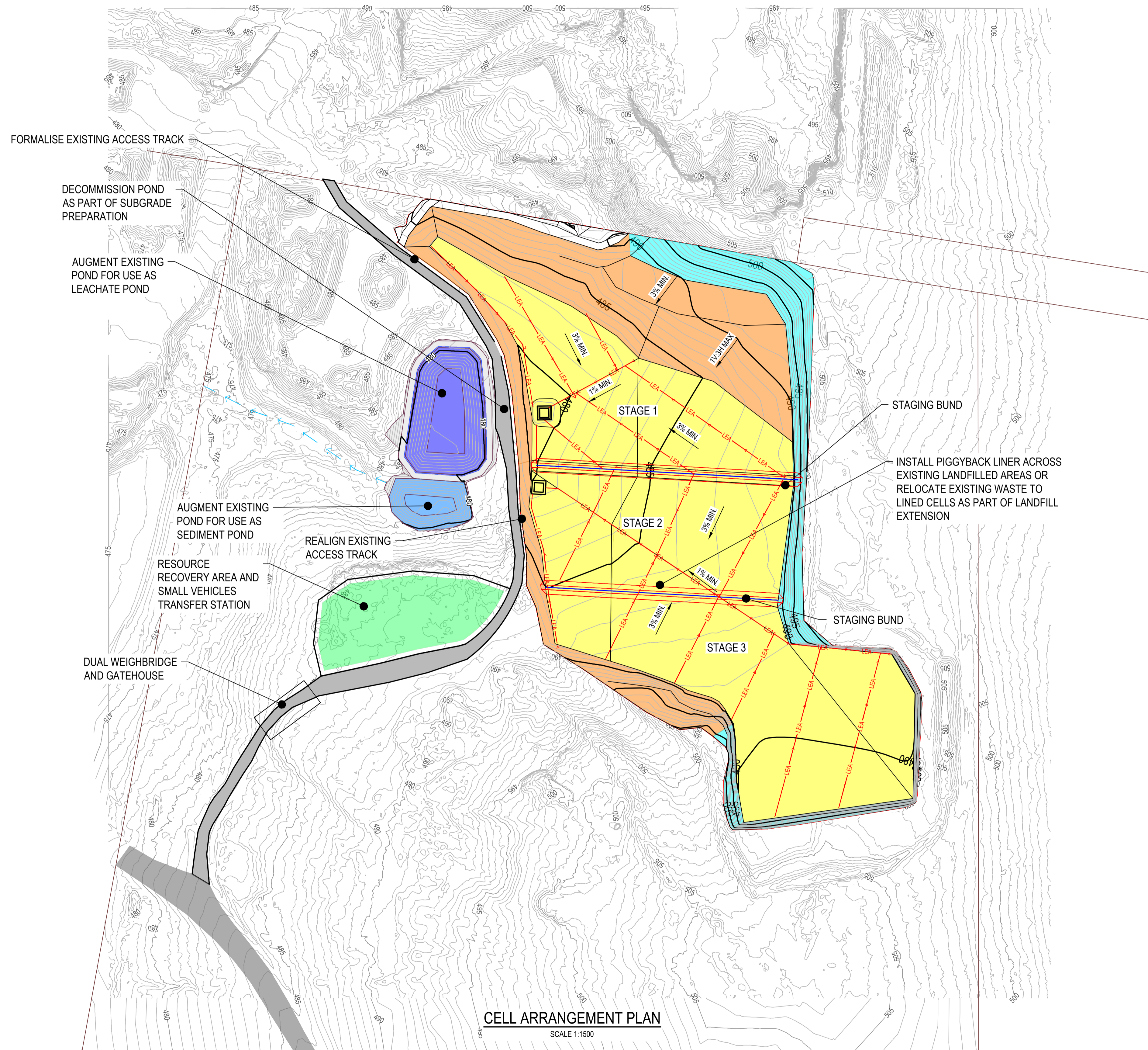
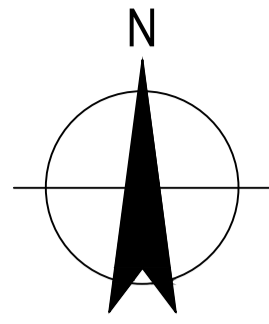
Client LIVERPOOL PLAINS SHIRE COUNCIL
Project WILLOW TREE WASTE MANAGEMENT FACILITY
Status FOR APPROVAL

Drawing Title LANDFILL EXTENSION CONCEPT DESIGN
EXISTING SITE PLAN

Status Code S4

Drawing No. 12534581-C002

Size A1
Rev B



LEGEND

	EXISTING CONTOURS
	DESIGN SUBGRADE CONTOUR
	CADASTRE
	APPROXIMATE LANDFILL BOUNDARY
	LEACHATE COLLECTION PIPES
	STAGING BOUNDARY
	BASAL LINER
	BATTER LINER
	SIDEWALL LINER
	LEACHATE POND LINER
	SEDIMENT POND
	EXISTING SURFACE WATER DRAINAGE PATH
	UNSEALED ACCESS ROAD

- NOTES:**
1. SURFACE WATER DIVERSION MEASURES AROUND LANDFORM AND COLLECTION MEASURES ON LANDFORM SURFACE NOT SHOWN, TO BE CONFIRMED IN DETAILED DESIGN.
 2. ALL LOCATIONS ARE APPROXIMATE.

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Author	R. LOPEZ	Drafting Check		
Designer	M. LE	Design Check		



CELL ARRANGEMENT PLAN
SCALE 1:1500

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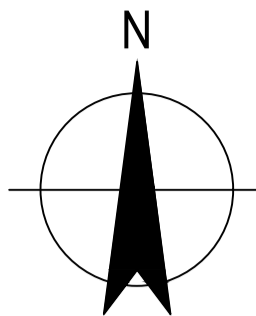
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Project No. 12534581


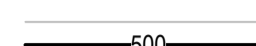




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Project	WILLOW TREE WASTE MANAGEMENT FACILITY
Status	FOR APPROVAL

Drawing Title	LANDFILL EXTENSION CONCEPT DESIGN CELL ARRANGEMENT PLAN	Size	A1
Status Code	S4	Drawing No.	12534581-C003
Rev	B		



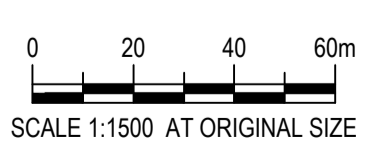
LEGEND

	EXISTING CONTOURS
	FINAL LANDFORM DESIGN CONTOURS
	APPROXIMATE LANDFILL BOUNDARY
	CADASTRE
	LEACHATE POND LINER
	SEDIMENT POND


- NOTES:**
1. SURFACE WATER DIVERSION MEASURES AROUND LANDFORM AND COLLECTION MEASURES ON LANDFORM SURFACE NOT SHOWN, TO BE CONFIRMED IN DETAILED DESIGN.
 2. ALL LOCATIONS ARE APPROXIMATE.

FINAL LANDFORM PLAN
SCALE 1:1500

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Author	R. LOPEZ	Drafting Check		
Designer	M. LE	Design Check		



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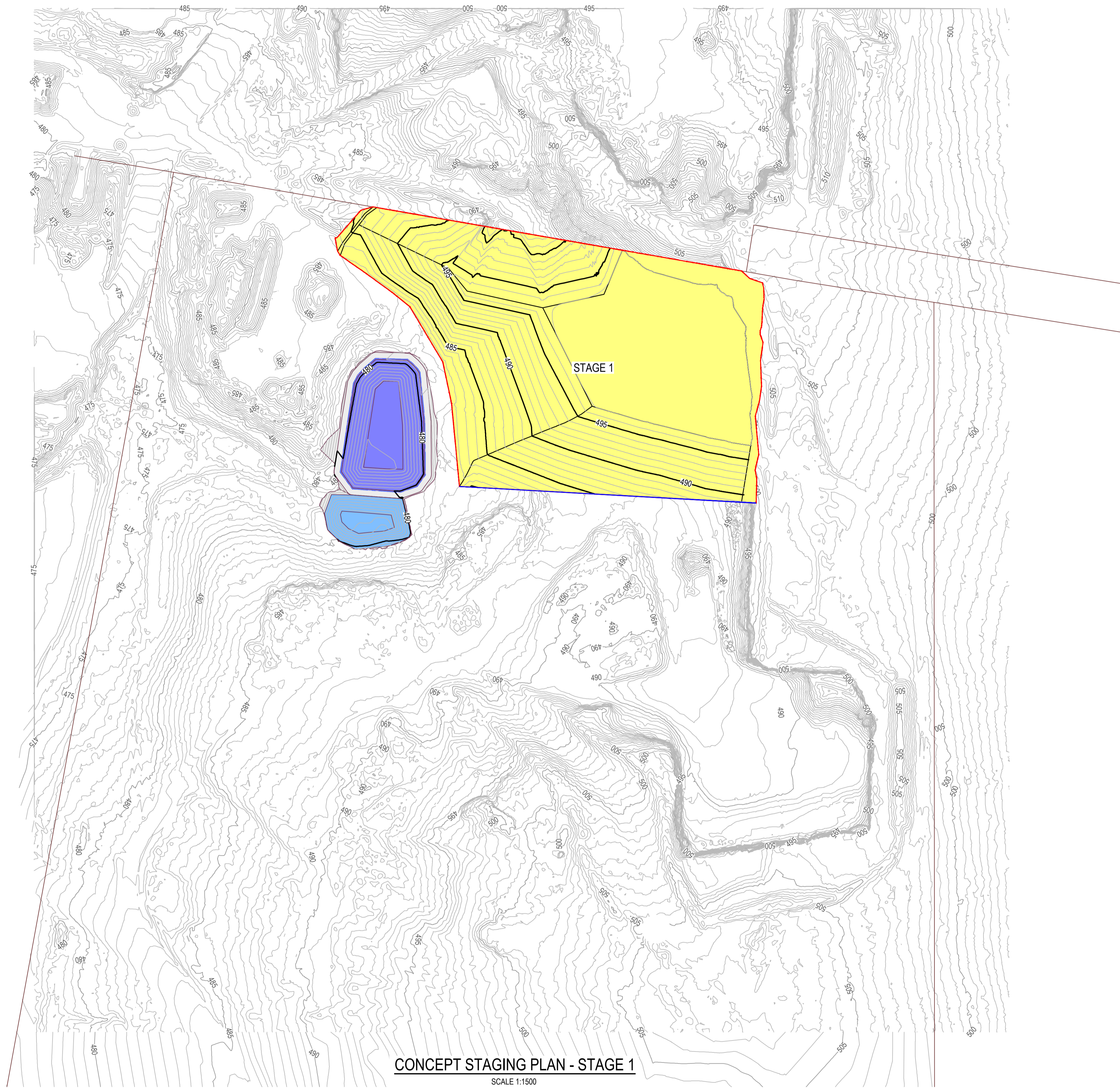
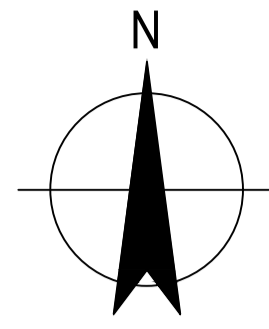


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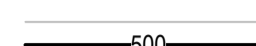




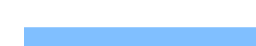
Client	LIVERPOOL PLAINS SHIRE COUNCIL
Project	WILLOW TREE WASTE MANAGEMENT FACILITY
Status	FOR APPROVAL

Drawing Title: LANDFILL EXTENSION CONCEPT DESIGN
 FINAL LANDFORM PLAN

Drawing No. 12534581-C004
 Status Code S4
 Rev B



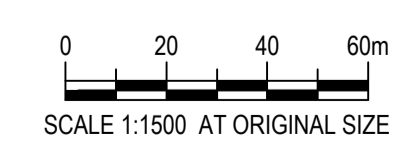
LEGEND

	EXISTING CONTOURS
	FINAL LANDFORM DESIGN CONTOURS
	APPROXIMATE LANDFILL BOUNDARY
	STAGING BOUNDARY
	CADASTRE
	LEACHATE POND LINER
	SEDIMENT POND


- NOTES:**
1. SURFACE WATER DIVERSION MEASURES AROUND LANDFORM AND COLLECTION MEASURES ON LANDFORM SURFACE NOT SHOWN, TO BE CONFIRMED IN DETAILED DESIGN.
 2. INTERIM WASTE BATTERS TO BE ESTABLISHED AT 1V:3H AT STAGE INTERFACE LOCATIONS.
 3. ALL LOCATIONS ARE APPROXIMATE.

CONCEPT STAGING PLAN - STAGE 1
SCALE 1:1500

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Author	R. LOPEZ	Drafting Check	
Designer	M. LE	Design Check	



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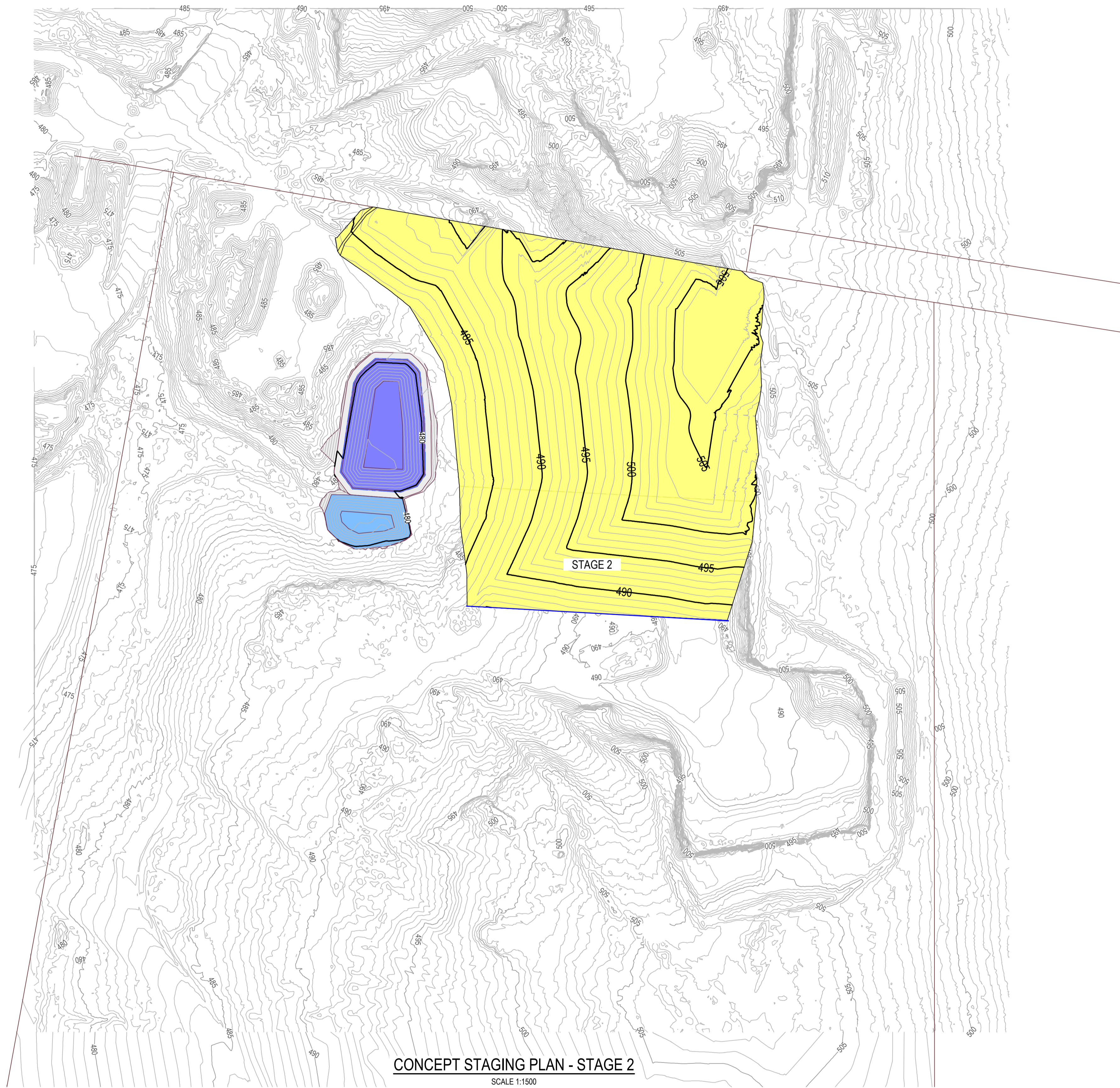
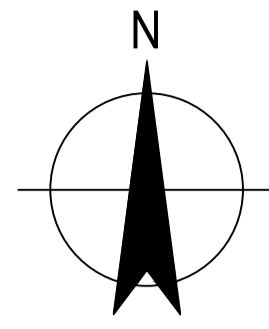
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Status	FOR APPROVAL

Drawing Title	LANDFILL EXTENSION CONCEPT DESIGN CONCEPT STAGING PLAN SHEET 1 OF 2
Drawing No.	12534581-C005

Size **A1**
Rev **B**



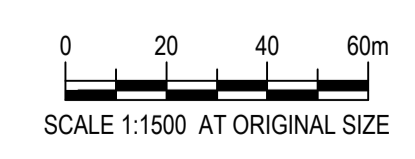
LEGEND

	EXISTING CONTOURS
	FINAL LANDFORM DESIGN CONTOURS
	APPROXIMATE LANDFILL BOUNDARY
	STAGING BOUNDARY
	CADASTRE
	LEACHATE POND LINER
	SEDIMENT POND

- NOTES:**
1. SURFACE WATER DIVERSION MEASURES AROUND LANDFORM AND COLLECTION MEASURES ON LANDFORM SURFACE NOT SHOWN, TO BE CONFIRMED IN DETAILED DESIGN.
 2. INTERIM WASTE BATTERS TO BE ESTABLISHED AT 1V:3H AT STAGE INTERFACE LOCATIONS.
 3. ALL LOCATIONS ARE APPROXIMATE.

CONCEPT STAGING PLAN - STAGE 2
SCALE 1:1500

B	FOR APPROVAL		09/12/22
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Author	R. LOPEZ	Drafting Check	
Designer	M. LE	Design Check	



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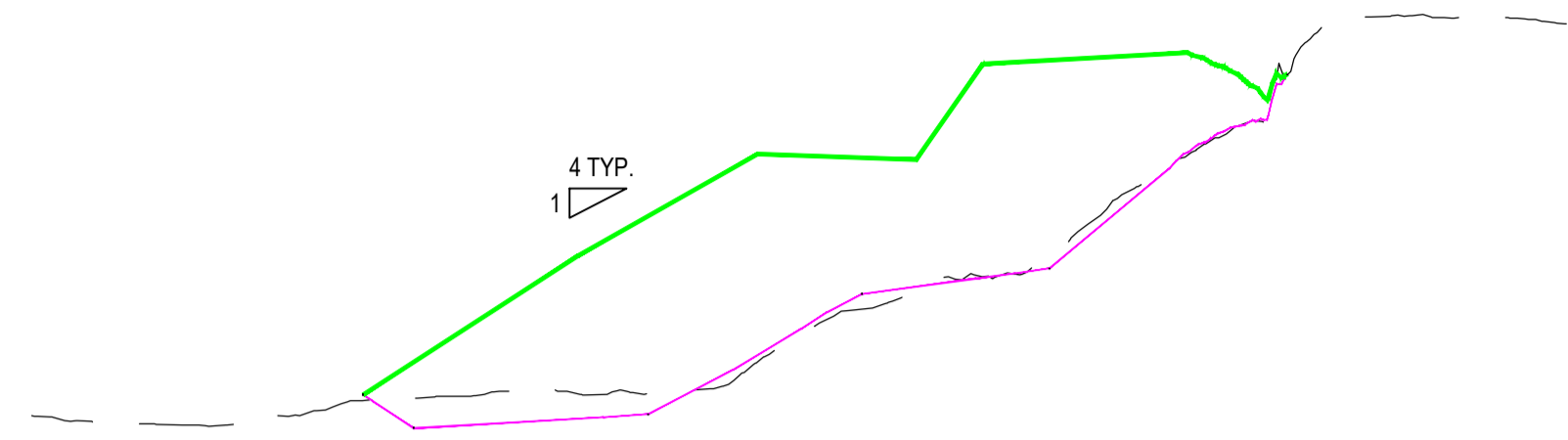
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Status	FOR APPROVAL

Drawing Title	LANDFILL EXTENSION CONCEPT DESIGN CONCEPT STAGING PLAN SHEET 2 OF 2
Drawing No.	12534581-C006

Size **A1**
Rev **B**

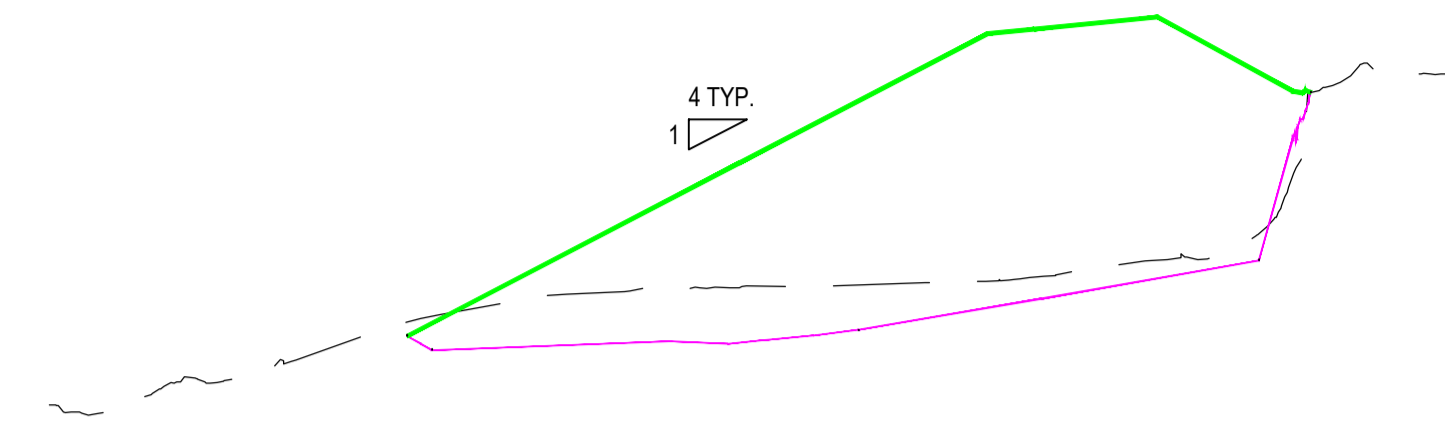


DATUM RL. 472.00

DESIGN FINAL LANDFORM				486.94	493.16	498.25	498.23	504.69	504.33
DESIGN SUBGRADE SURFACE				479.99	480.58	485.25	489.34	491.55	499.55
EXISTING SURFACE LEVEL	480.59	479.96	481.03	481.94	482.27	484.85	489.27	492.28	499.37
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00
								180.00	200.00
									507.48
									507.07
									207.43

LONGITUDINAL SECTION - A

HORZ 1:1000 VERT 1:500

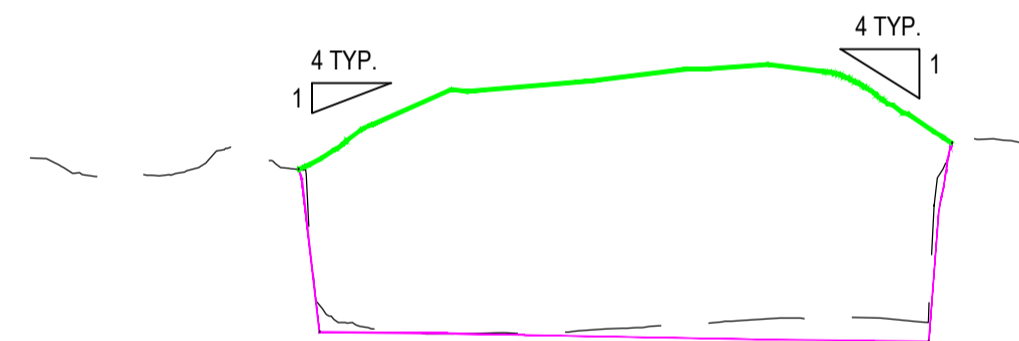


DATUM RL. 470.00

DESIGN FINAL LANDFORM				486.65	491.87	497.08	502.28	504.13	500.77
DESIGN SUBGRADE SURFACE				482.59	482.96	483.33	484.86	486.59	488.41
EXISTING SURFACE LEVEL	478.79	480.43	483.10	485.52	486.49	486.62	486.93	487.95	490.15
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00
									180.00
									500.60
									500.82
									188.74

LONGITUDINAL SECTION - B

HORZ 1:1000 VERT 1:500



DATUM RL. 481.00

DESIGN FINAL LANDFORM				501.34	505.35	506.33	506.88	502.48
DESIGN SUBGRADE SURFACE				489.35	489.23	489.04	488.86	486.45
EXISTING SURFACE LEVEL	500.87	499.91	490.31	489.29	489.64	490.28	490.51	502.56
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	133.81

LONGITUDINAL SECTION - C

HORZ 1:1000 VERT 1:500



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Author	R. LOPEZ	Designing		
Designer	M. LE	Design Check		



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Project No.
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Client LIVERPOOL PLAINS SHIRE COUNCIL
 Project WILLOW TREE WASTE MANAGEMENT FACILITY
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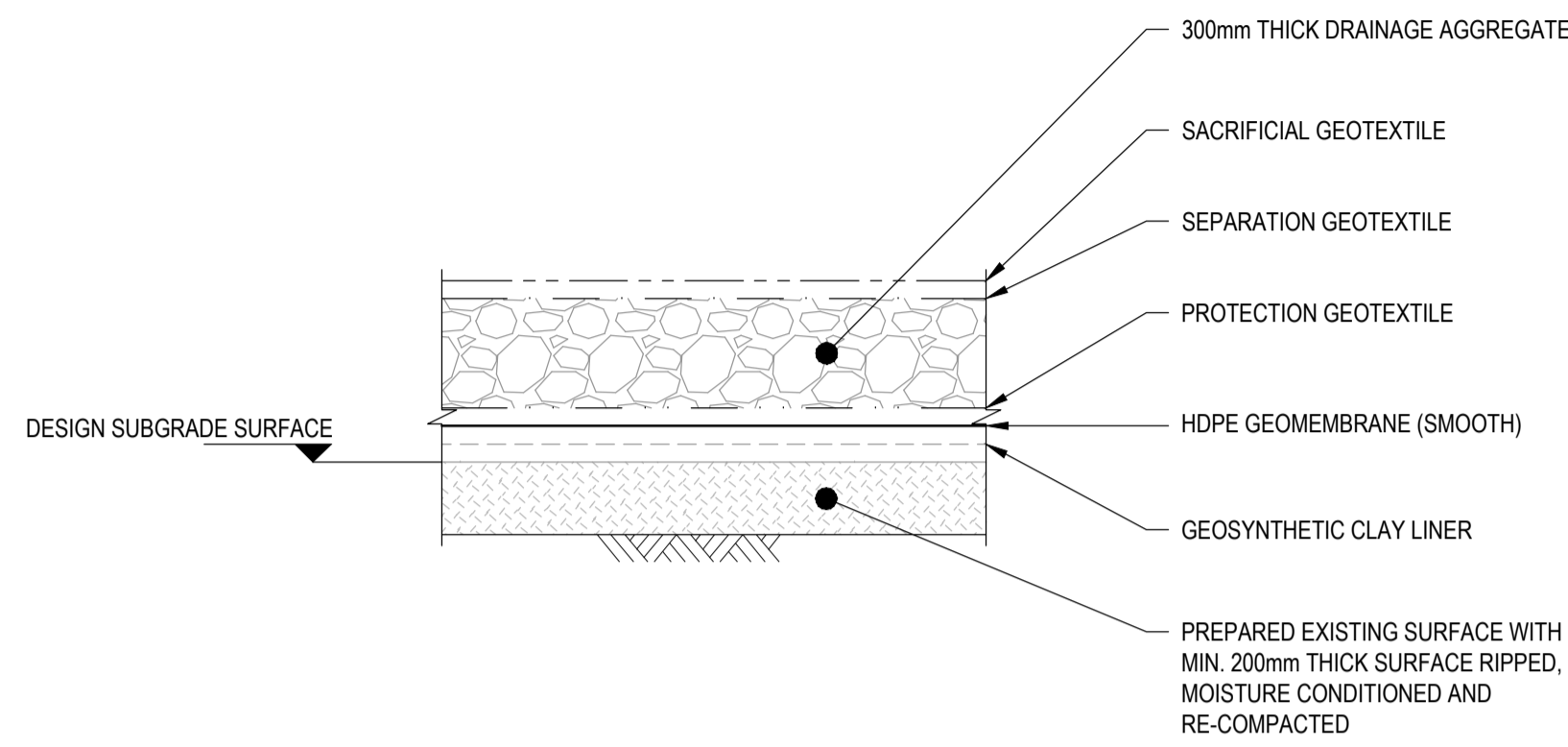
Drawing Title LANDFILL EXTENSION CONCEPT DESIGN
TYPICAL LONG SECTIONS

Status Code S4

Drawing No. 12534581-C007

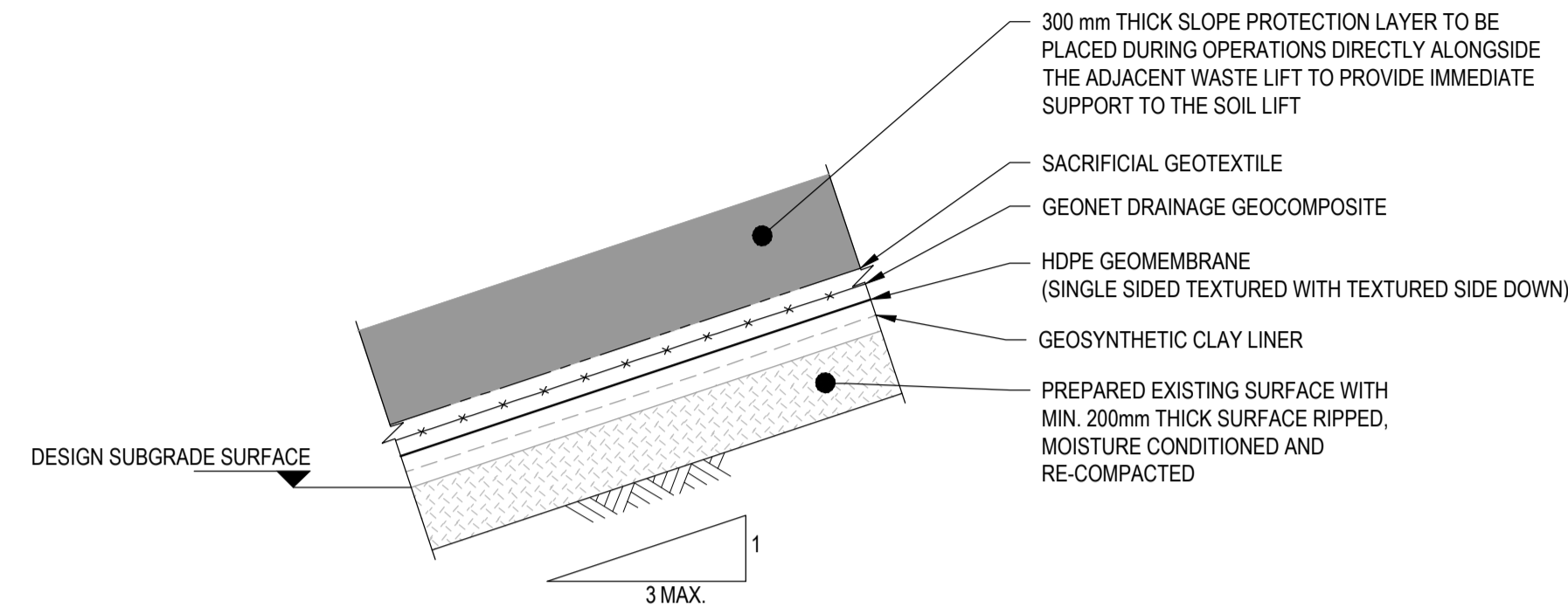
Size A1

Rev B



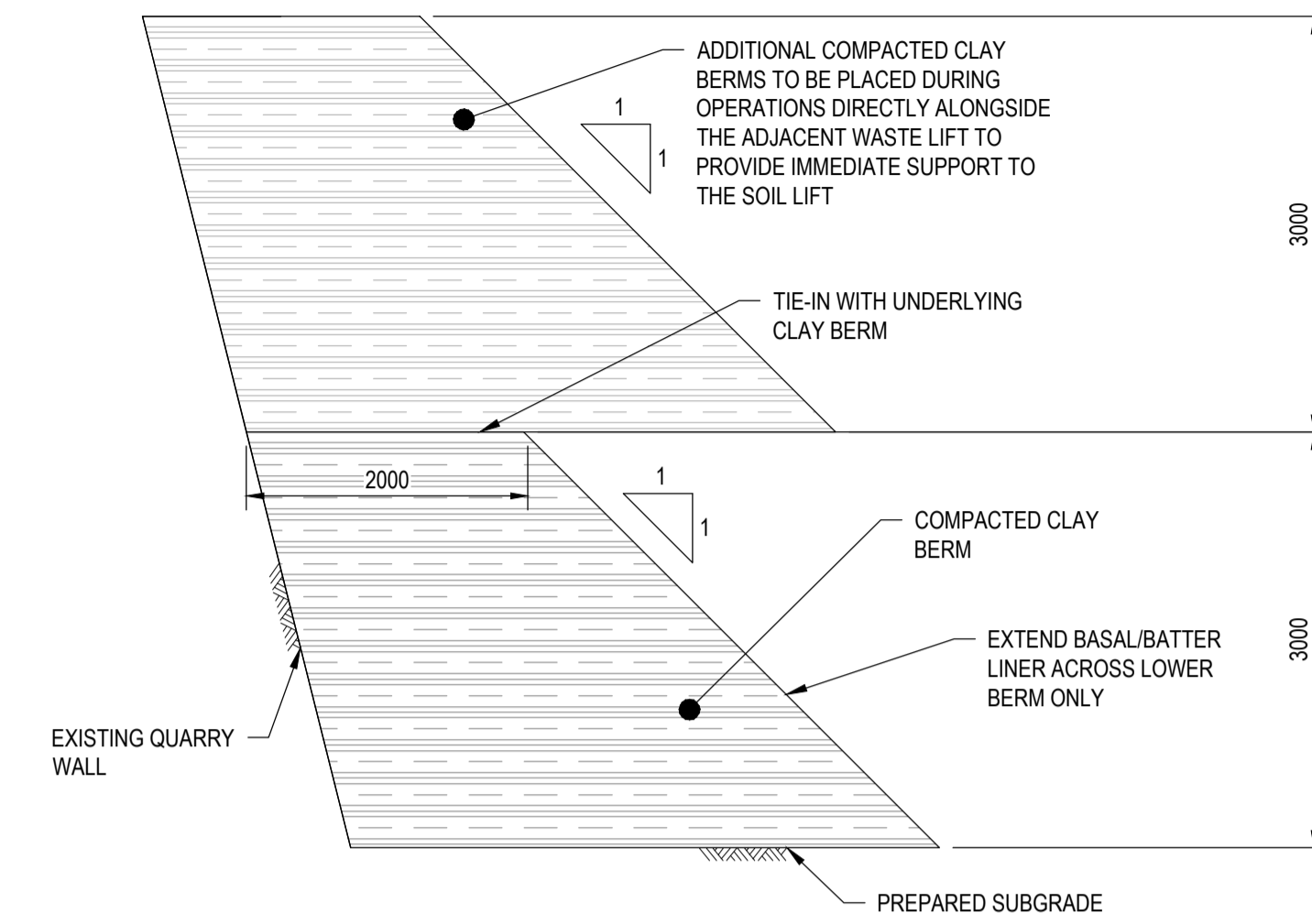
BASAL LINER

1 DETAIL
SCALE 1 : 20



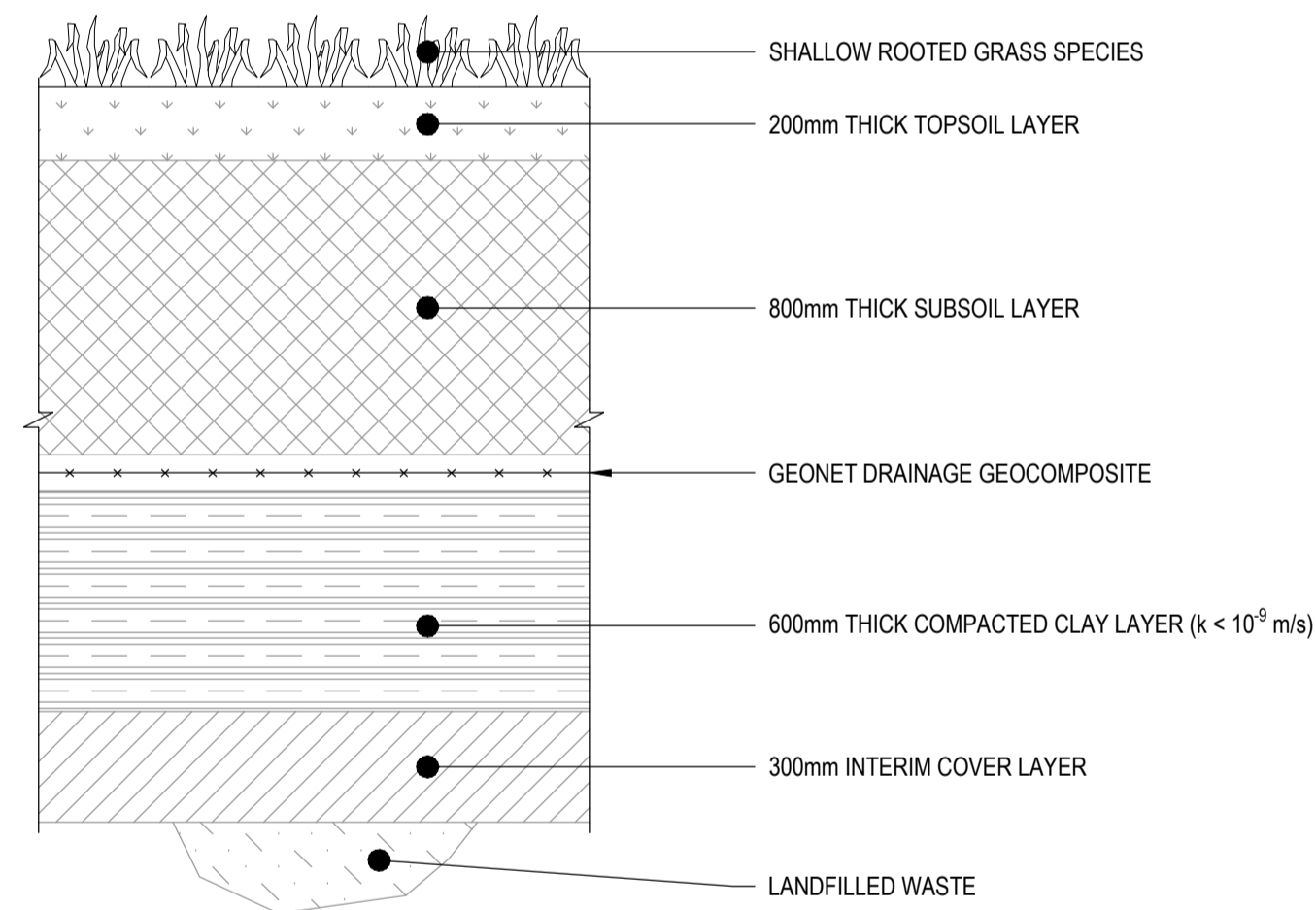
BATTER LINER

2 DETAIL
SCALE 1 : 20



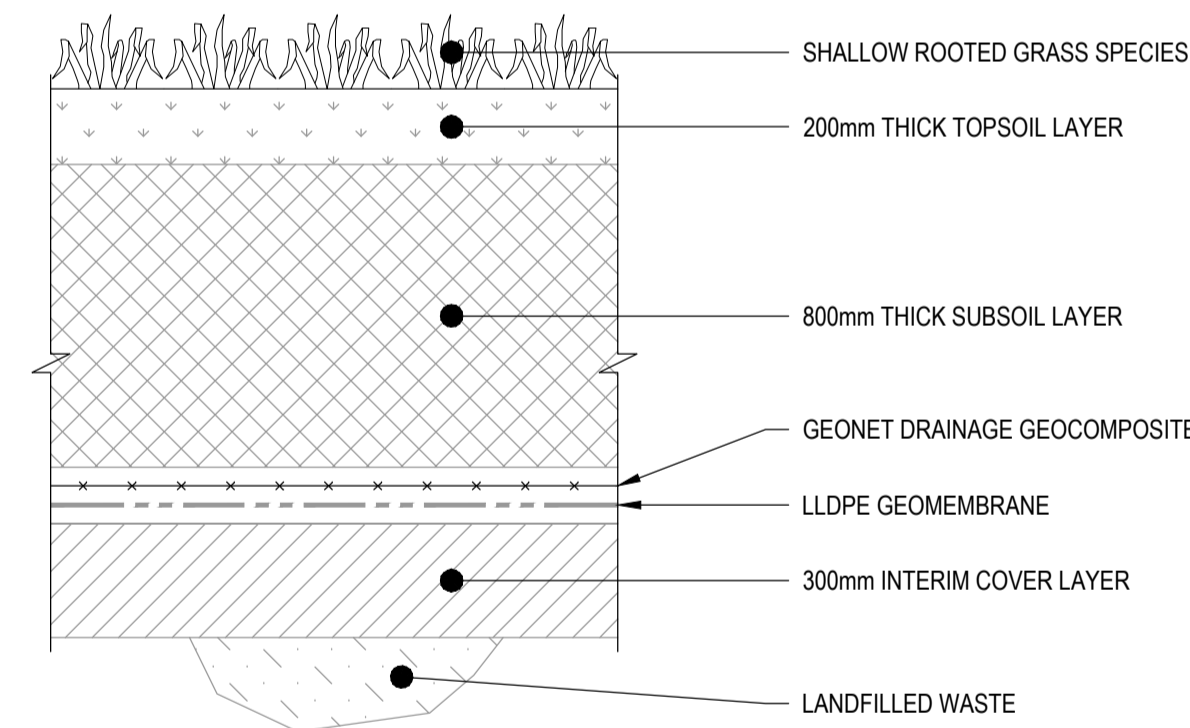
SIDEWALL LINER

3 DETAIL
SCALE 1 : 50



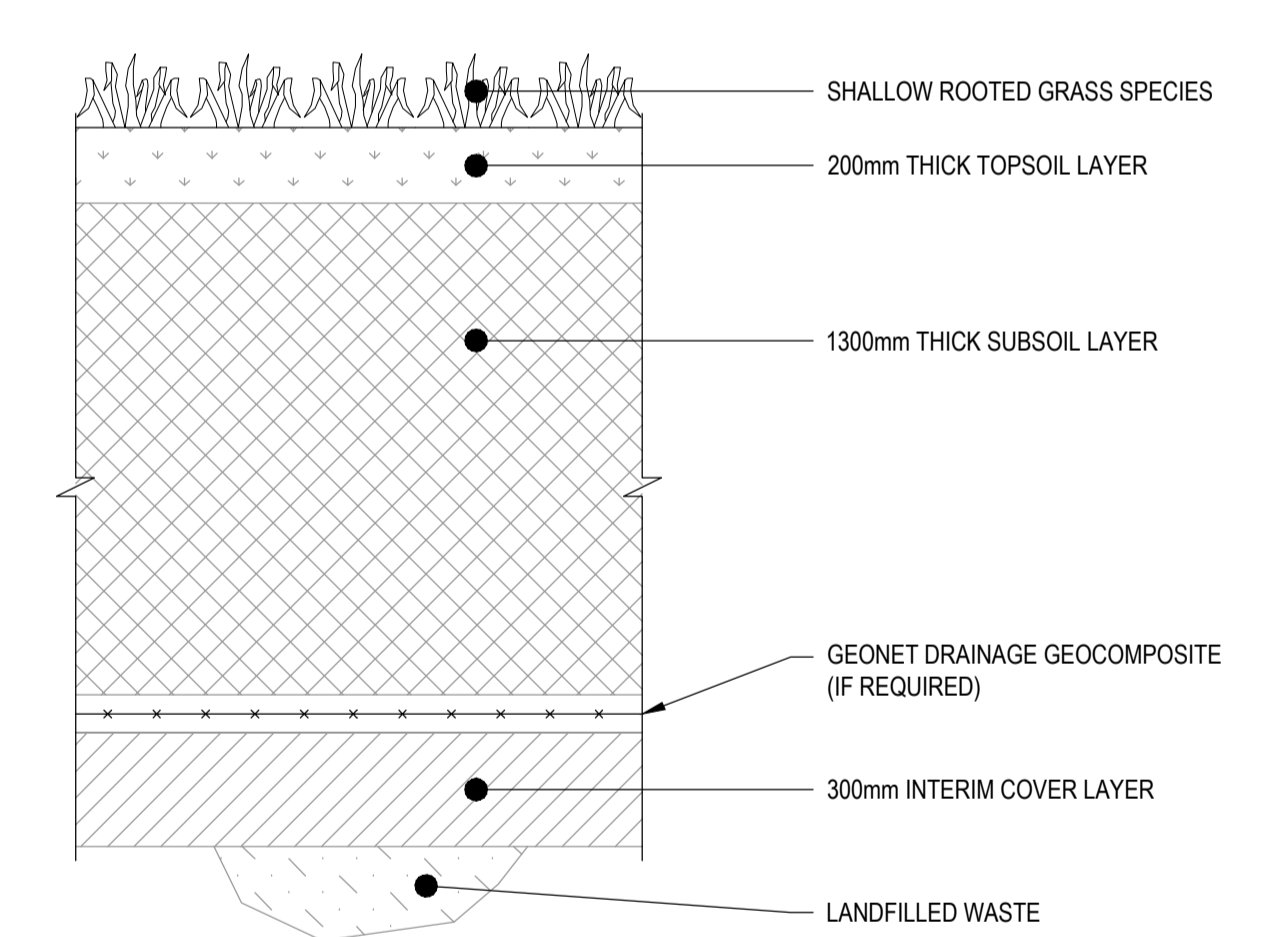
CAPPING PROFILE OPTION 1

4A DETAIL
SCALE 1 : 20



CAPPING PROFILE OPTION 2

4B DETAIL
SCALE 1 : 20



CAPPING PROFILE OPTION 3 (REFER NOTE 1)

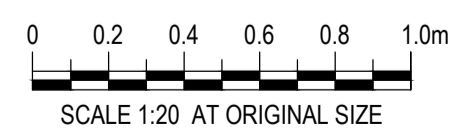
4C DETAIL
SCALE 1 : 20

NOTE:

- 1. FINAL PROFILE TO BE CONFIRMED BASED ON SITE SPECIFIC PHYTOCAP MODELLING, IF PURSUED.

Rev	Description	Checked	Approved	Date
B	FOR APPROVAL			09/12/22
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Author	R. LOPEZ	Drafting Check
Designer	M. LE	Design Check



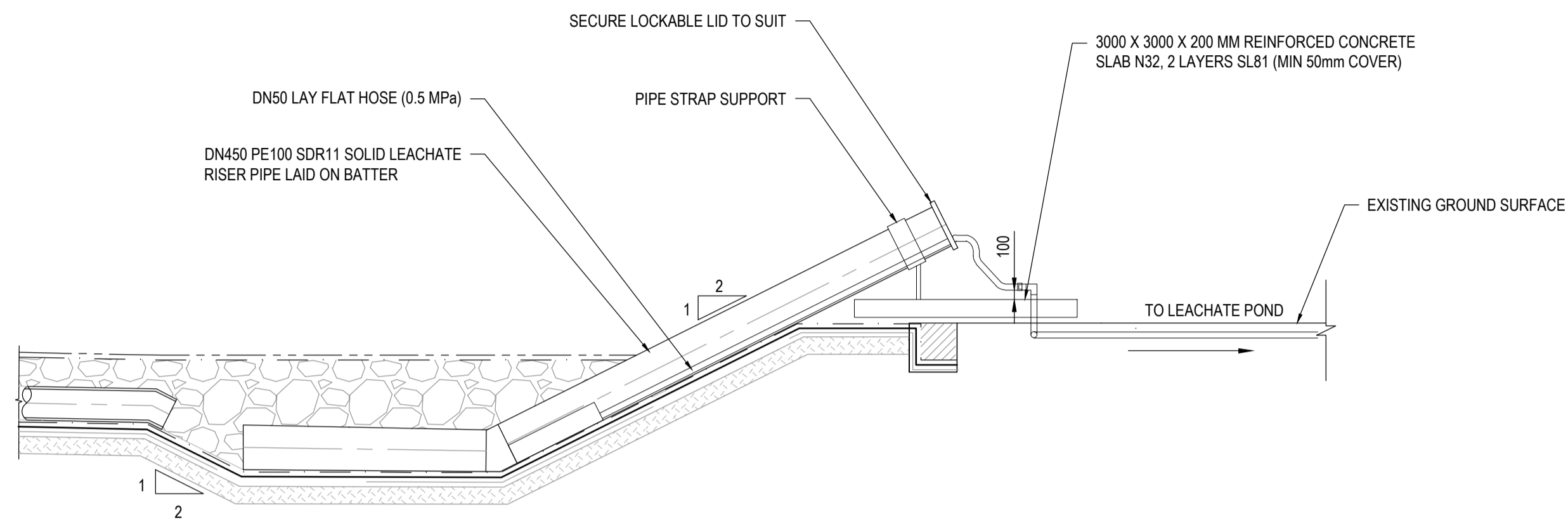
Project No.
12534581

Client LIVERPOOL PLAINS SHIRE COUNCIL
Project WILLOW TREE WASTE MANAGEMENT FACILITY
Status FOR APPROVAL

Drawing Title LANDFILL EXTENSION CONCEPT DESIGN
TYPICAL SECTIONS AND DETAILS
SHEET 1 OF 2

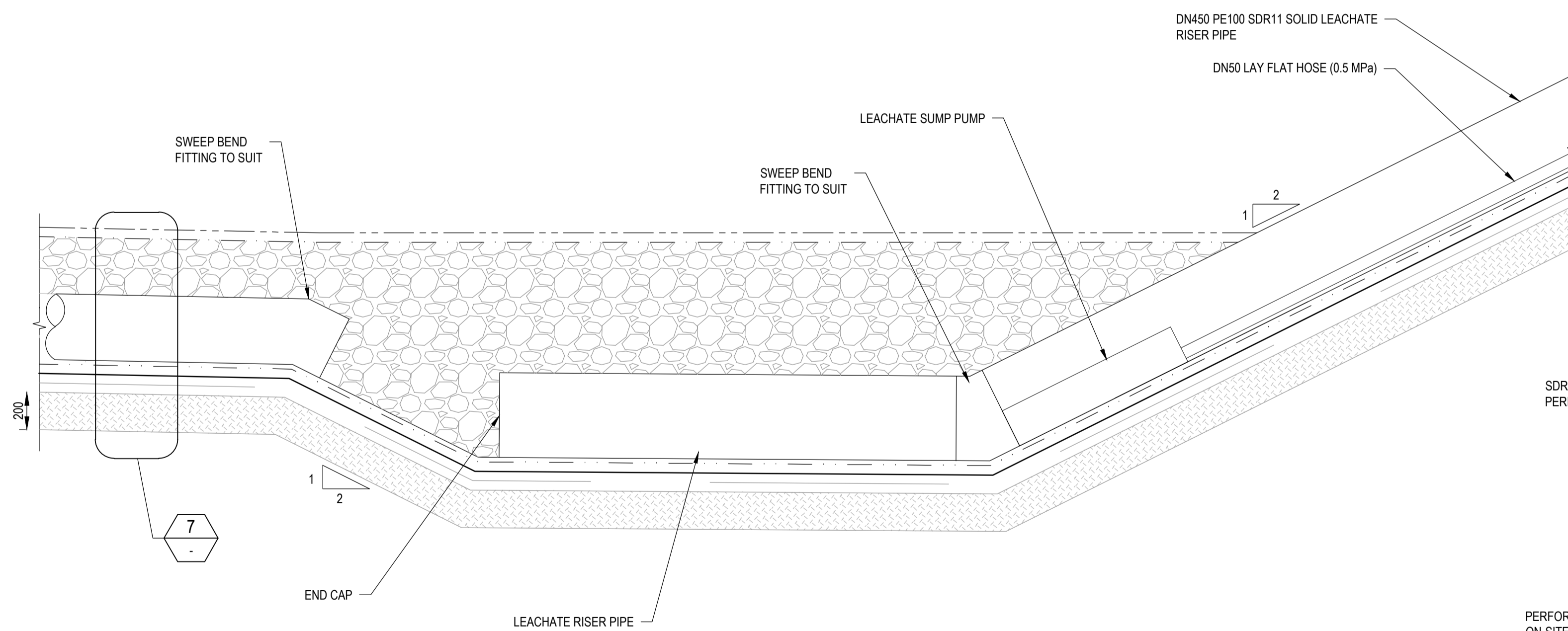
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Drawing No. 12534581-C010
Rev B



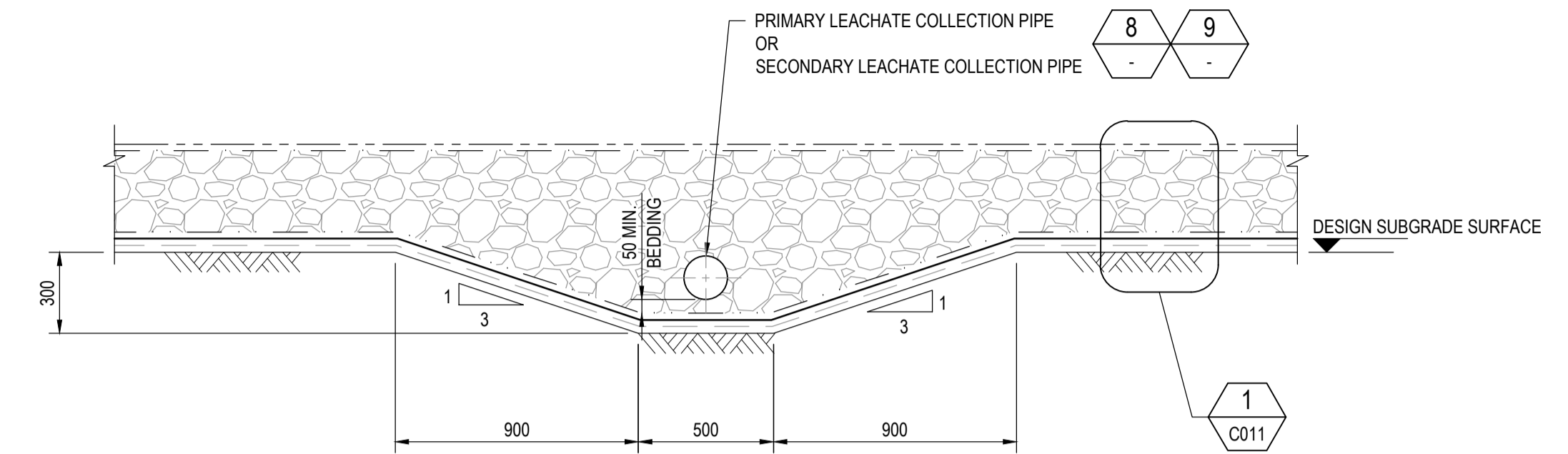
LEACHATE SUMP

5 DETAIL
SCALE 1 : 50



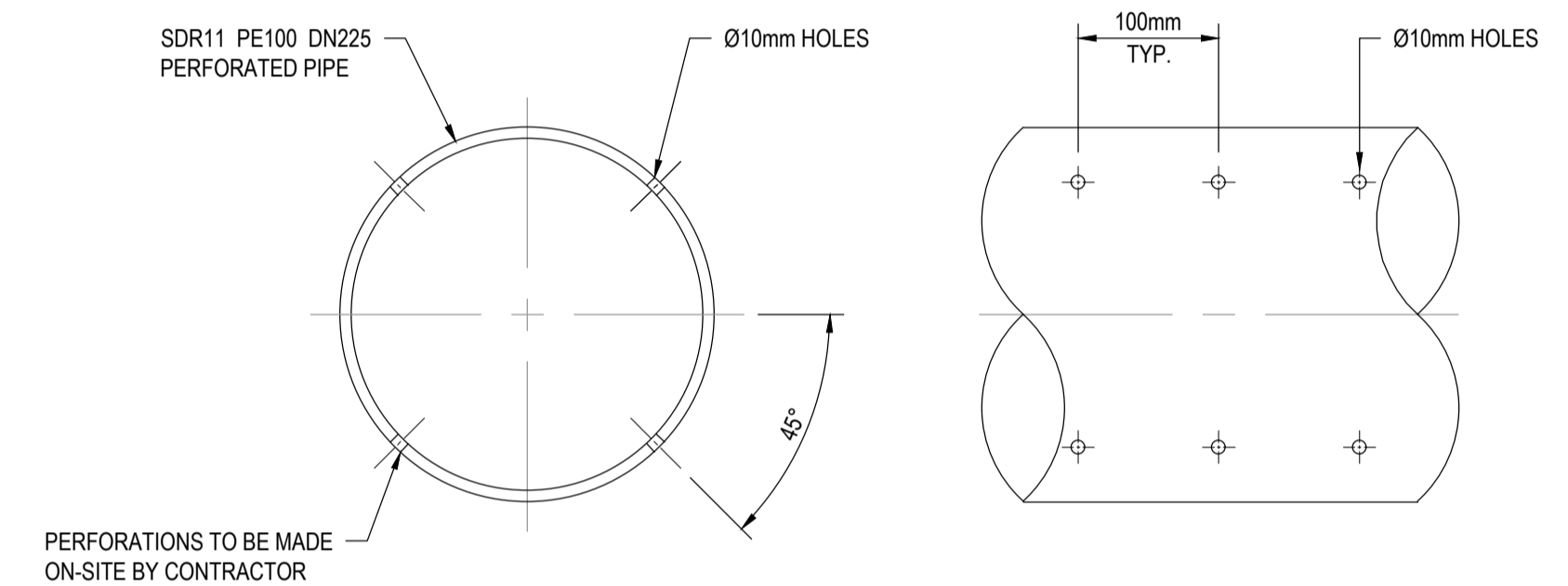
LEACHATE SUMP DETAIL

6 DETAIL
SCALE 1 : 20



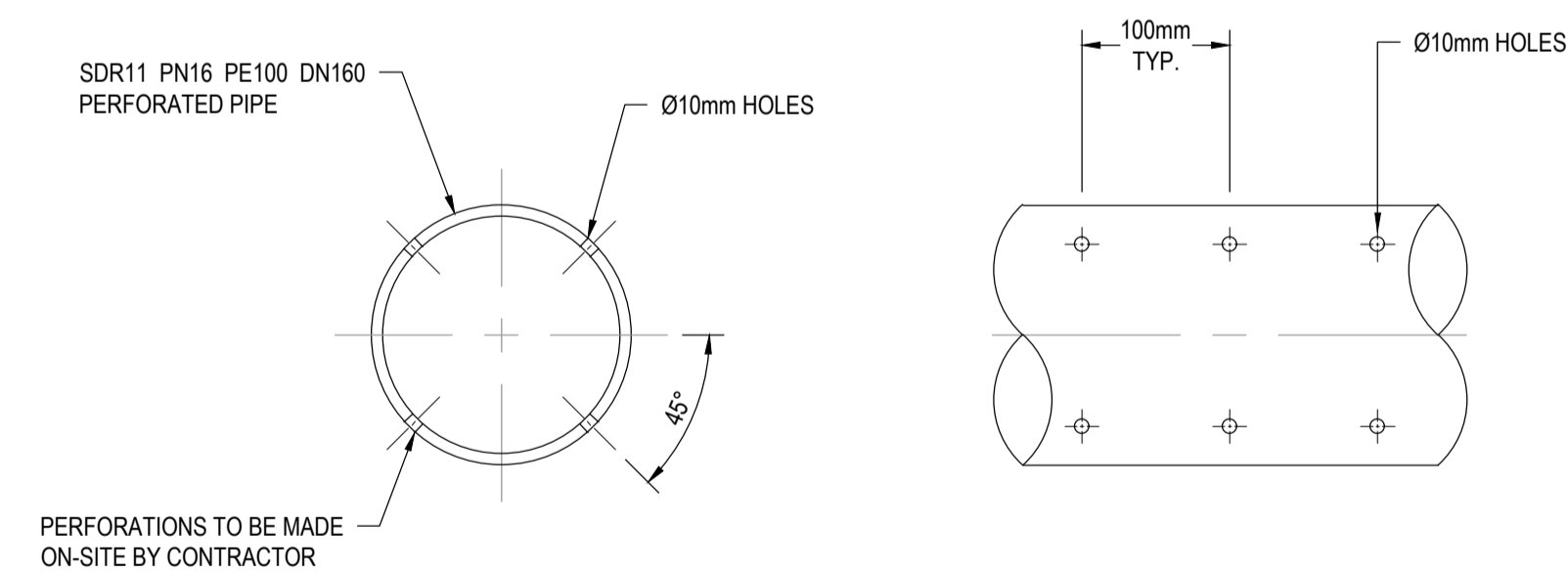
LEACHATE DRAINAGE PIPE TRENCH

7 DETAIL
SCALE 1 : 20



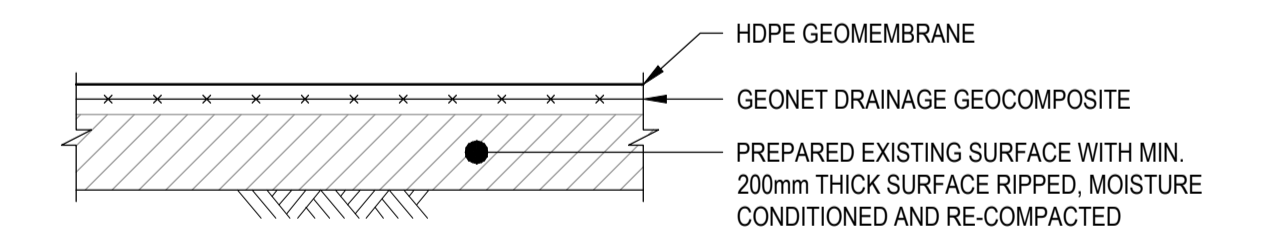
PRIMARY LEACHATE DRAINAGE PIPE PERFORATION

8 DETAIL
SCALE 1 : 5



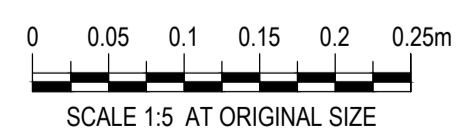
SECONDARY LEACHATE COLLECTION PIPE PERFORATION

9 DETAIL
SCALE 1 : 5

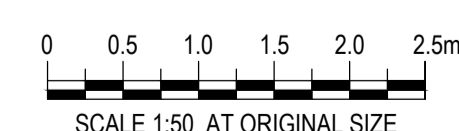


LEACHATE POND LINER

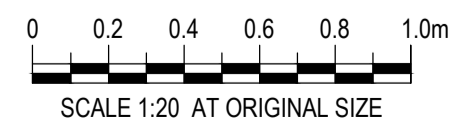
10 DETAIL
SCALE 1 : 20



SCALE 1:50 AT ORIGINAL SIZE



SCALE 1:20 AT ORIGINAL SIZE



SCALE 1:20 AT ORIGINAL SIZE

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Drawing Title LANDFILL EXTENSION CONCEPT DESIGN TYPICAL SECTIONS AND DETAILS SHEET 2 OF 2

Status Code S4
Drawing No. 12534581-C011
Rev B

Size A1