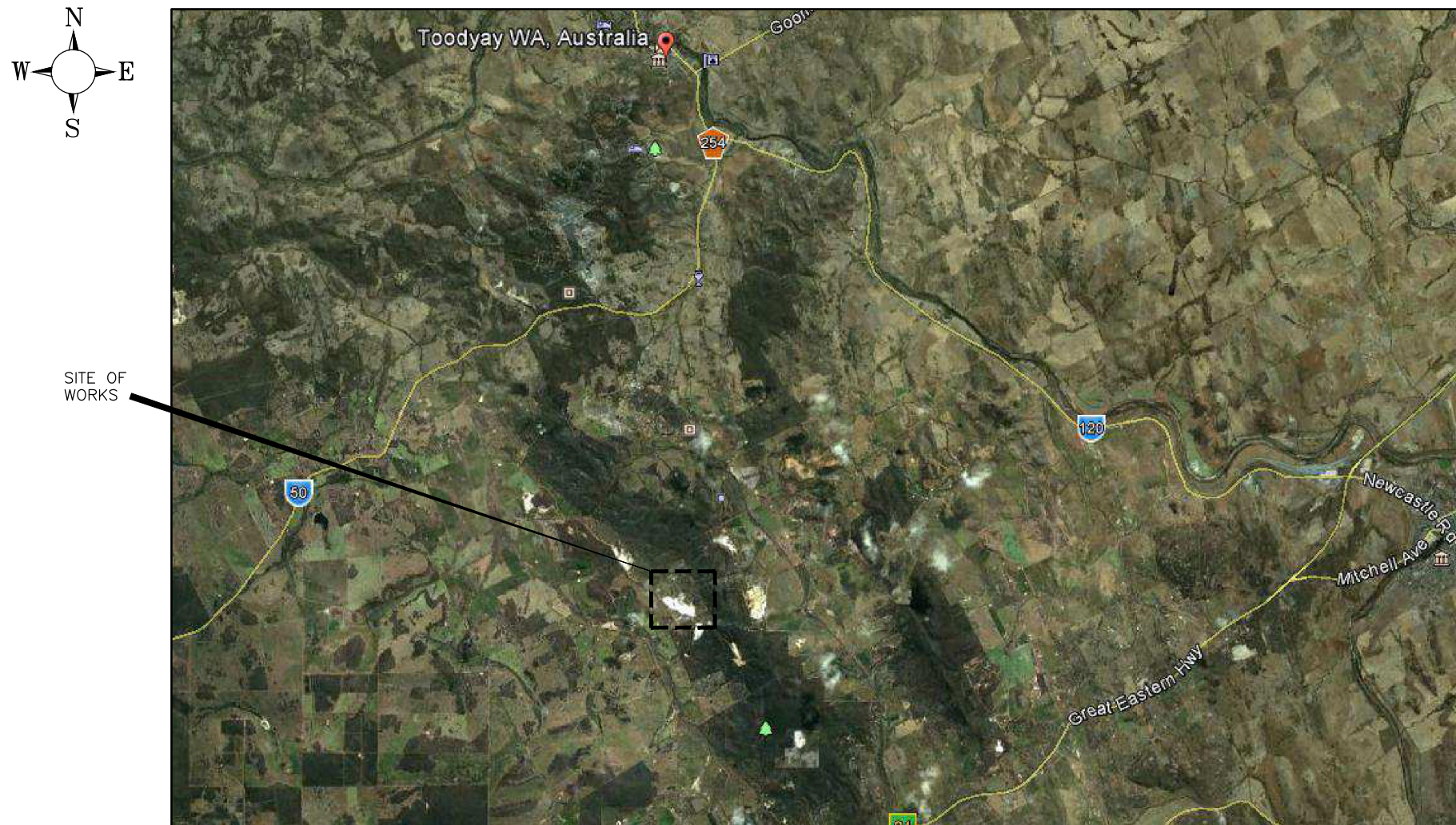


OPAL VALE PTY LTD

PROPOSED CLASS II LANDFILL (STAGE 1)

WORKS APPROVAL

LOT 11 CHITTY ROAD, TOODYAY



LOCALITY PLAN
NOT TO SCALE

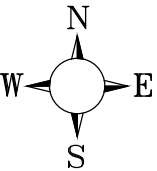
DRAWING SCHEDULE

DRAWING No.	REVISION	DESCRIPTION
OV - WA - 21	B	COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN
OV - WA - 22	B	OVERALL LAYOUT PLAN
OV - WA - 23	B	GENERAL ARRANGEMENT LAYOUT PLAN
OV - WA - 24	B	LANDFILL EARTHWORKS LAYOUT PLAN
OV - WA - 25	B	LANDFILL TYPICAL SECTIONS
OV - WA - 26	B	LANDFILL LINER DETAILS - SHEET 1 OF 2
OV - WA - 27	B	LANDFILL LINER DETAILS - SHEET 2 OF 2
OV - WA - 28	B	LEACHATE EXTRACTION LAYOUT PLAN
OV - WA - 29	B	LEACHATE EXTRACTION DETAILS - SHEET 1 OF 2
OV - WA - 30	B	LEACHATE EXTRACTION DETAILS - SHEET 2 OF 2
OV - WA - 31	B	LEACHATE EVAPORATION PONDS LAYOUT PLAN
OV - WA - 32	B	LEACHATE EVAPORATION PONDS DETAILS
OV - WA - 33	B	LEACHATE EVAPORATION POND SAFETY SYSTEM
OV - WA - 34	B	LANDFILL CELL 1 FILLING LAYOUT PLAN
OV - WA - 35	B	LANDFILL CELL 2 FILLING LAYOUT PLAN
OV - WA - 36	B	LANDFILL CELL 3 FILLING LAYOUT PLAN
OV - WA - 37	B	LANDFILL CELL 4 FILLING LAYOUT PLAN
OV - WA - 38	B	LANDFILL CELL 5 FILLING LAYOUT PLAN
OV - WA - 39	B	LANDFILL CELL 6 FILLING LAYOUT PLAN
OV - WA - 40	B	FINAL PRESETTLEMENT WASTE PROFILE LAYOUT PLAN
OV - WA - 41	B	STORMWATER DRAINAGE LAYOUT PLAN
OV - WA - 42	B	LANDFILL GAS INSTALLATION LAYOUT PLAN
OV - WA - 43	B	LANDFILL GAS INSTALLATION DETAILS

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	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DESIGN	I.W. / S.B.Y.	11/14						PROPOSED CLASS II LANDFILL (STAGE 1)	SHEET
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.				LOT 11 CHITTY ROAD, TOODYAY	DRG No.	REVISION	B	
	No.	BY	DATE	DESCRIPTION	DWG. CHK.	I.W.				COVER SHEET, DRG. SCHEDULE AND LOCALITY PLAN		OV-WA-21		



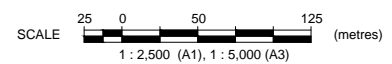
PRESCRIBED BOUNDARY SETOUT TABLE

PT	EASTING	NORTHING
01	449175.810	6496412.485
02	449650.350	6496595.722
03	449875.060	6496402.043
04	449996.452	6496319.074
05	450239.200	6496015.367
06	450163.157	6495798.196
07	449827.189	6495823.471
08	449576.119	6495911.384

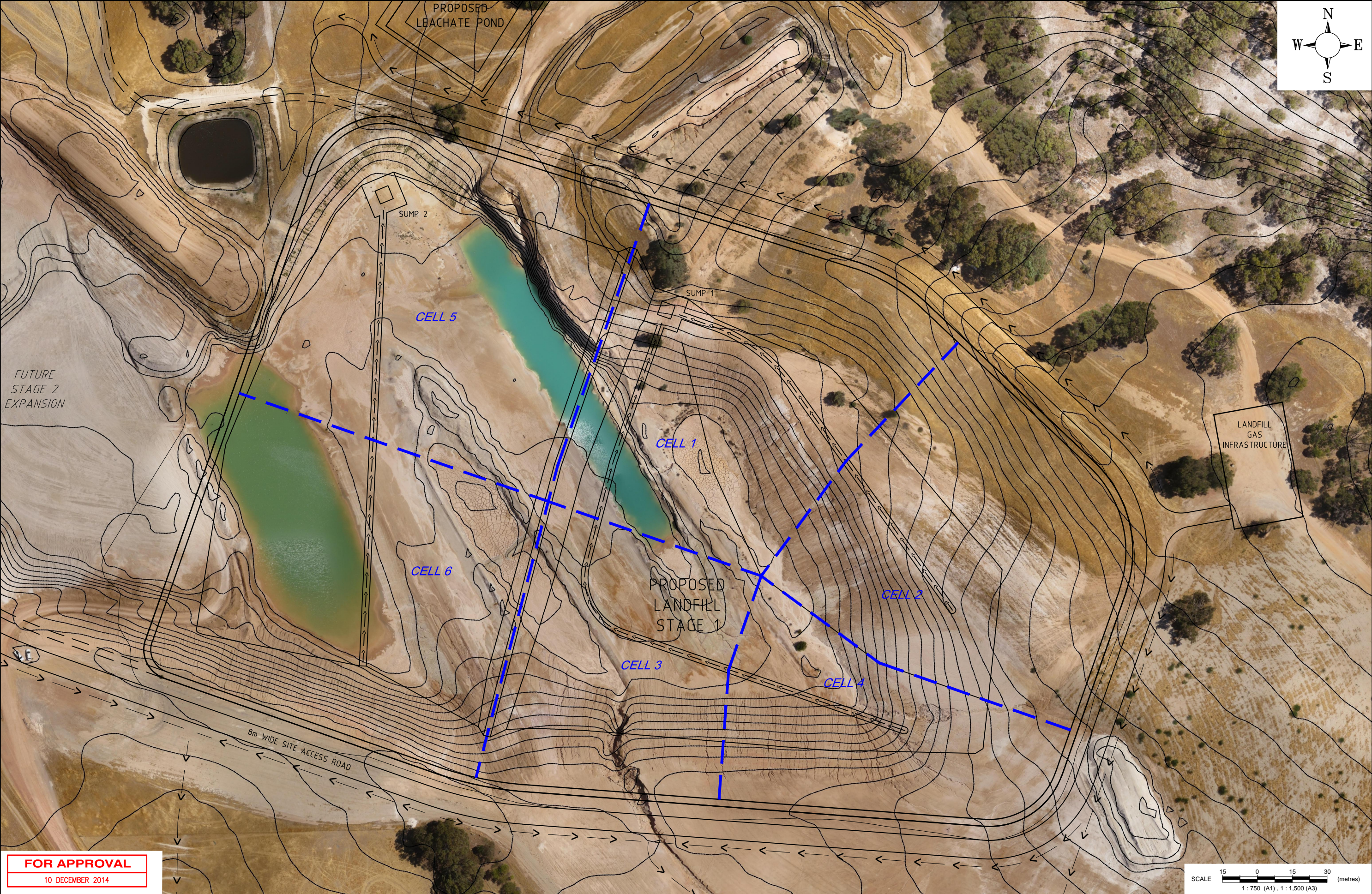
NOTES:
1. ALL SETOUT IS TO BE CONFIRMED ON SITE PRIOR TO COMMENCING CONSTRUCTION.

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REVISIONS				DRG. FILE	OV-WA-21.dwg	DATE	TECHNICALLY APPROVED:	<div><div><div>COPYRIGHT ©</div><div>These designs and drawings are copyright and are not to be used or reproduced without the written permission of IWPROJECTS. The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved.</div></div></div>	OPAL VALE PTY LTD PROPOSED CLASS II LANDFILL (STAGE 1) LOT 11 CHITTY ROAD, TOODYAY OVERALL LAYOUT PLAN		SCALE	AS SHOWN	
				DESIGN	I.W / S.B.Y	11/14					SHEET	02 of	
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DRAWN	S.B.Y.					11/14	REVISION	B
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.							
	No.	BY	DATE	DESCRIPTION	DWG. CHK.	I.W.					DRG No.	OV-WA-22	



REVISIONS	No.	BY	DATE	DESCRIPTION	DRG. CHK.	I.W.
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DRAWN	S.B.Y.
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.

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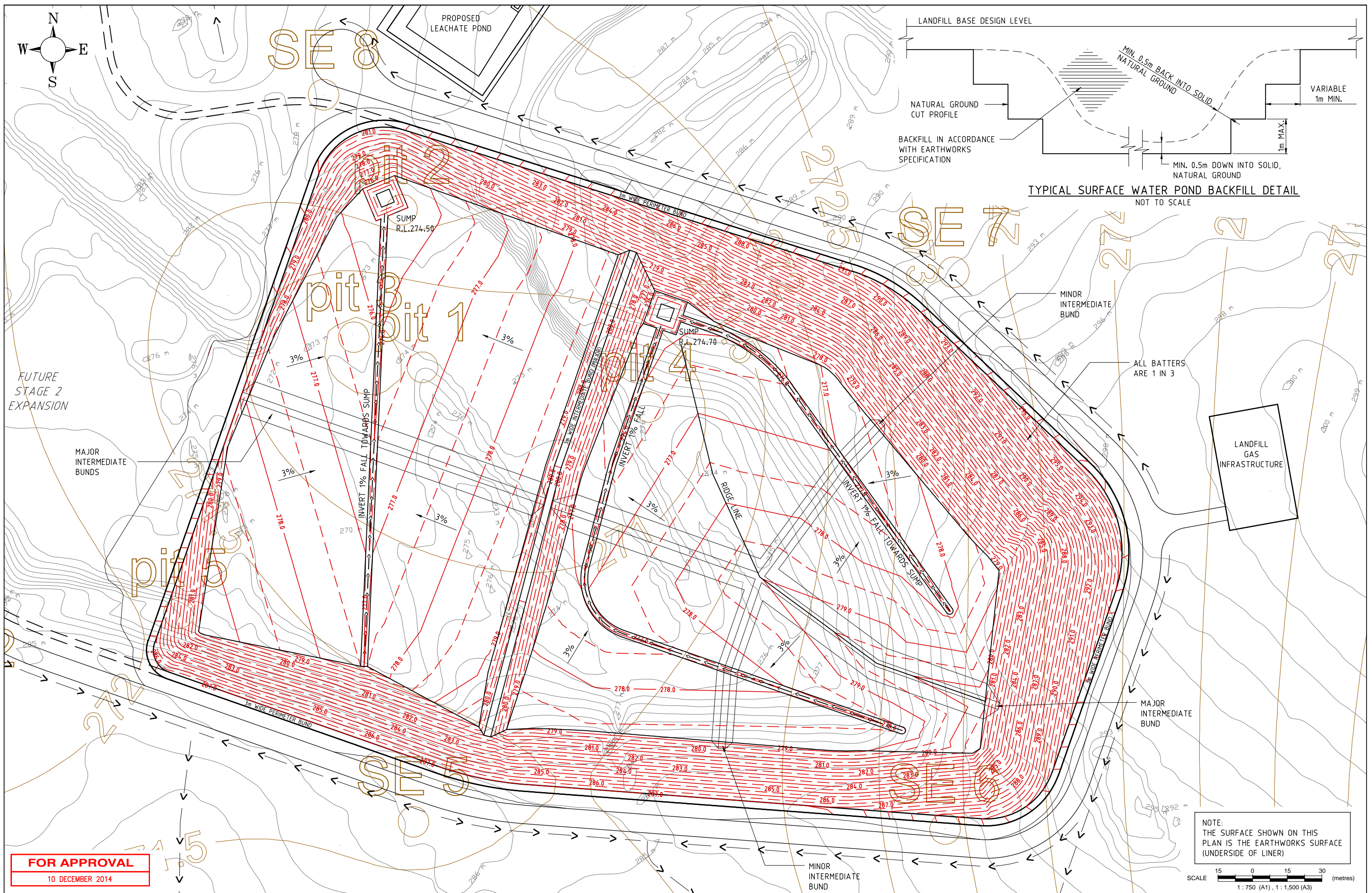
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OPAL VALE PTY LTD
PROPOSED CLASS II LANDFILL (STAGE 1)
LOT 11 CHITTY ROAD, TOODYAY
GENERAL ARRANGEMENT LAYOUT PLAN

SCALE	AS SHOWN
SHEET	03 of
DRG No.	OV-WA-23



REVISIONS					DRG. FILE	OV-WA-24.dwg	DATE
					DESIGN	I.W. / S.B.Y.	11/14
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DRAWN	S.B.Y.	11/14
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.	
	No.	BY	DATE	DESCRIPTION	DWG. CHK.	I.W.	

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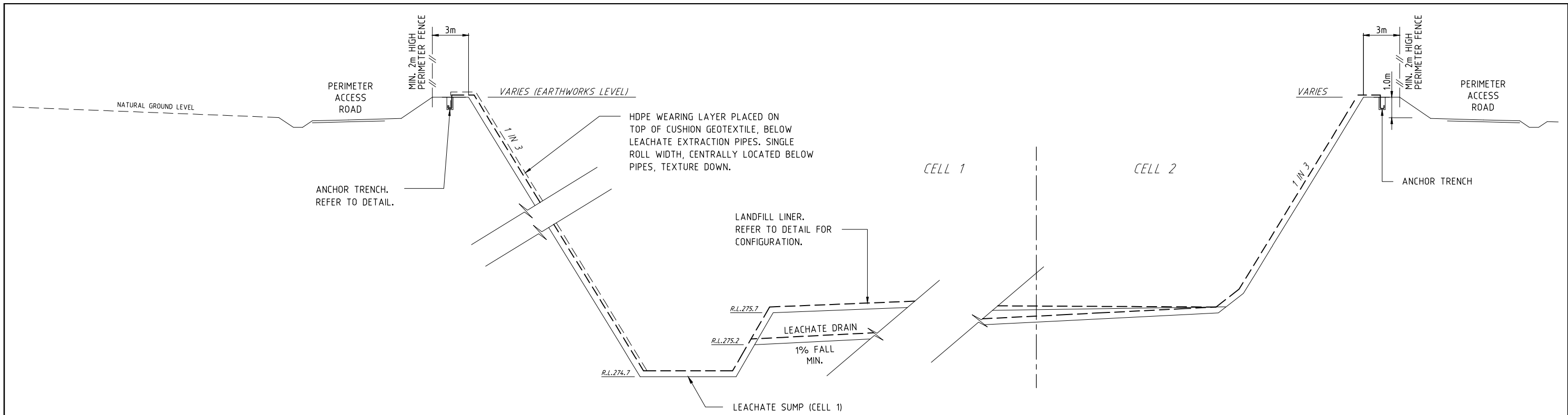
OPAL VALE PTY LTD

PROPOSED CLASS II LANDFILL (STAGE 1)
LOT 11 CHITTY ROAD, TOODYAY
LANDFILL EARTHWORKS LAYOUT PLAN

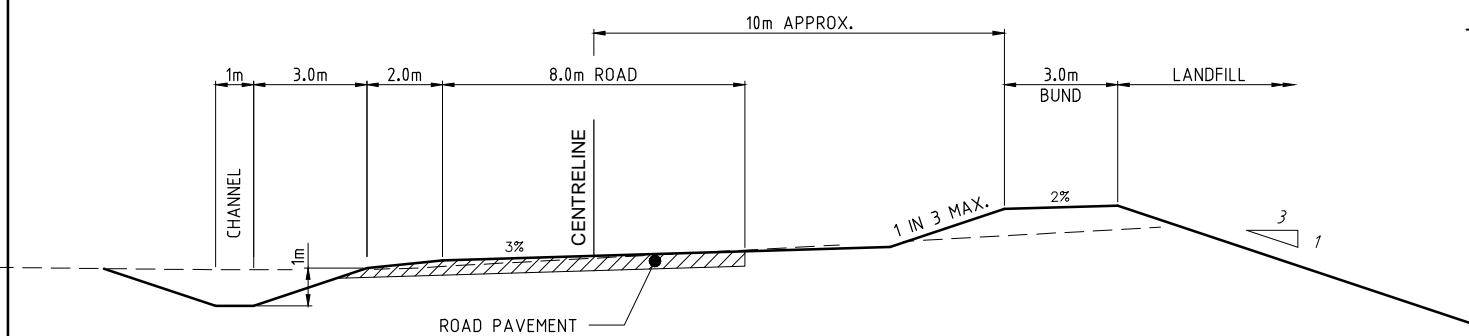
SCALE	AS SHOWN
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SHEET 04 of

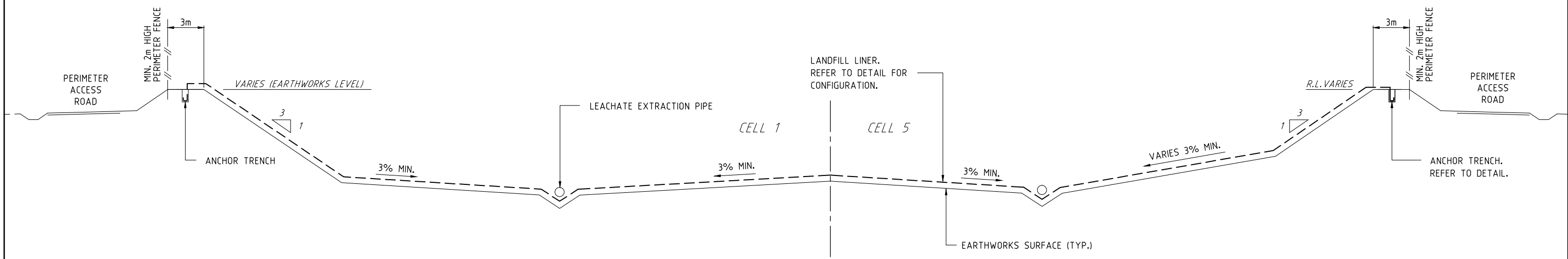
	REVISION	B
DRG No.	OV-WA-24	



LEACHATE SUMP No. 1 SECTION
NOT TO SCALE



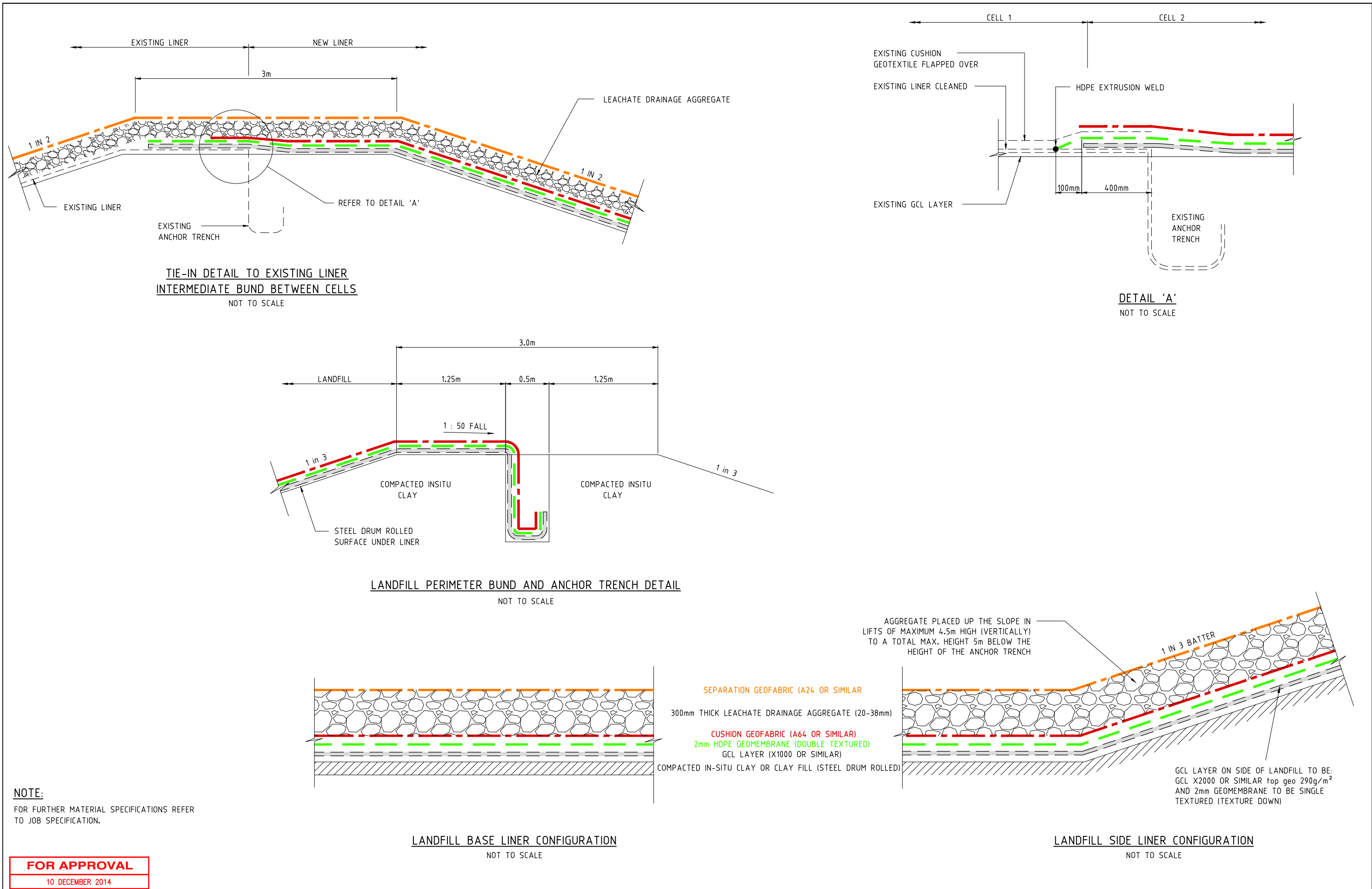
PERIMETER ACCESS ROAD TYPICAL CROSS SECTION
NOT TO SCALE



LANDFILL TYPICAL CROSS SECTION
NOT TO SCALE

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REVISIONS				DRG. FILE	OV-WA-25.dwg	DATE	TECHNICALLY APPROVED:	<div><div><div>COPYRIGHT ©</div><div>These designs and drawings are copyright and are not to be used or reproduced without the written permission of IWPROJECTS. The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved.</div></div></div> <div>Email – iwatkins@iwprojects.com.au</div> <div>Mobile – 0402 909 291</div> <div>Address – 6 Anembo Close Duncraig 6023</div>	OPAL VALE PTY LTD		SCALE	AS SHOWN		
				DESIGN	I.W / S.B.Y	11/14			PROPOSED CLASS II LANDFILL (STAGE 1)		SHEET	01 of		
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DRAWN	S.B.Y.			11/14	LOT 11 CHITTY ROAD, TOODYAY		DRG No.	REVISION	B
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.				LANDFILL TYPICAL SECTIONS			OV-WA-25	
	No.	BY	DATE	DESCRIPTION	DWG. CHK.	I.W.								



REVISIONS					DRG. FILE	OV-WA-26.dwg	DATE
					DESIGN	I.W / S.B.Y	11/14
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DRAWN	S.B.Y.	11/14
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.	
	No.	BY	DATE	DESCRIPTION	DWG. CHK.	I.W.	

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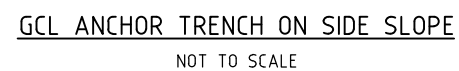
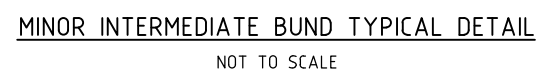
PROPOSED CLASS II LANDFILL (STAGE 1)
LOT 11 CHITTY ROAD, TOODYAY
LANDFILL LINER DETAILS - SHEET 1 OF 2

SCALE AS SHOWN

SHEET 06 of

REVISION B

DRG No. OV-WA-26

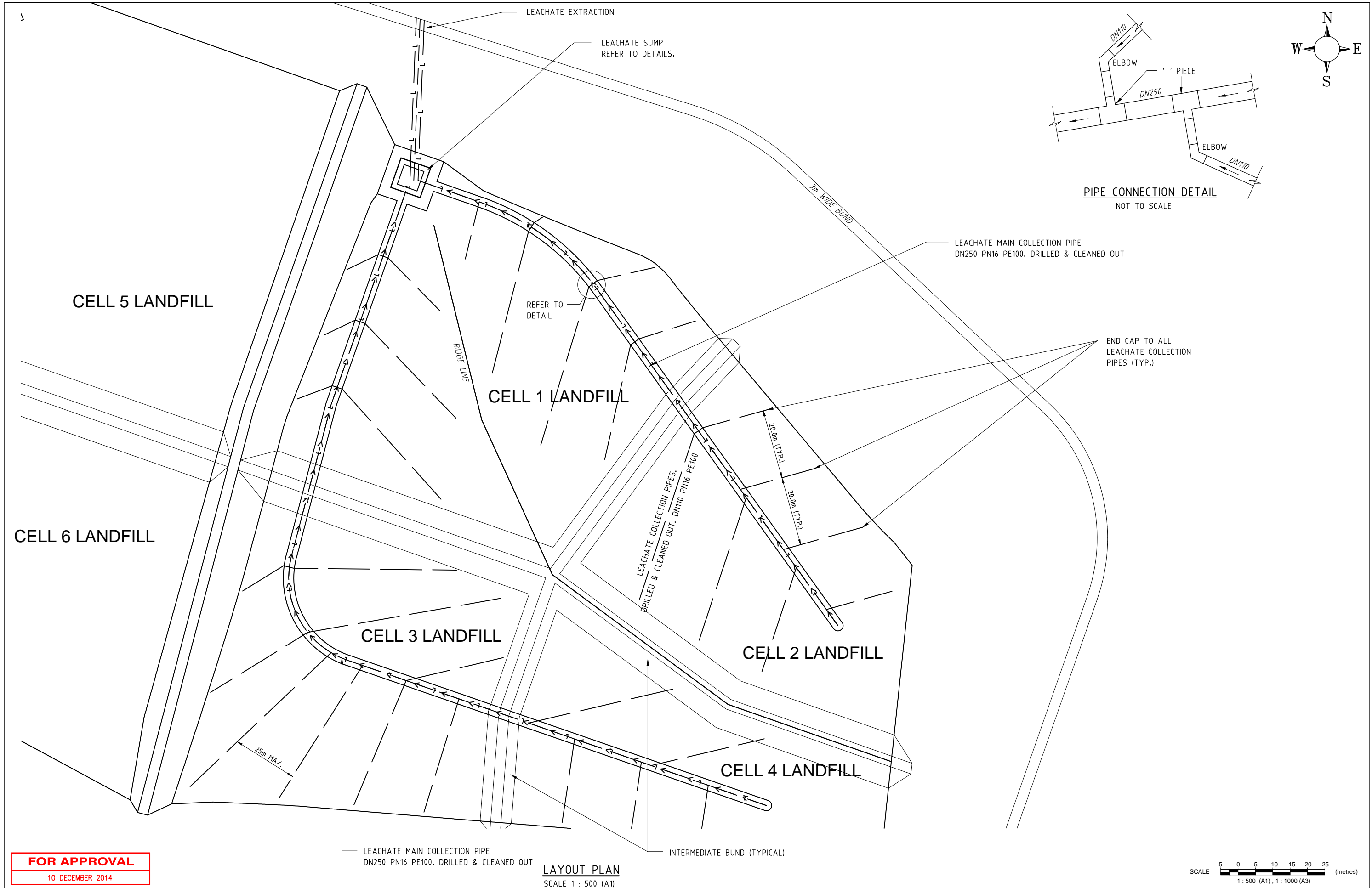


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					DRG. FILE	OV-WA-28.dwg
					DESIGN	I.W / S.B.Y
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DRAWN	S.B.Y.
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.

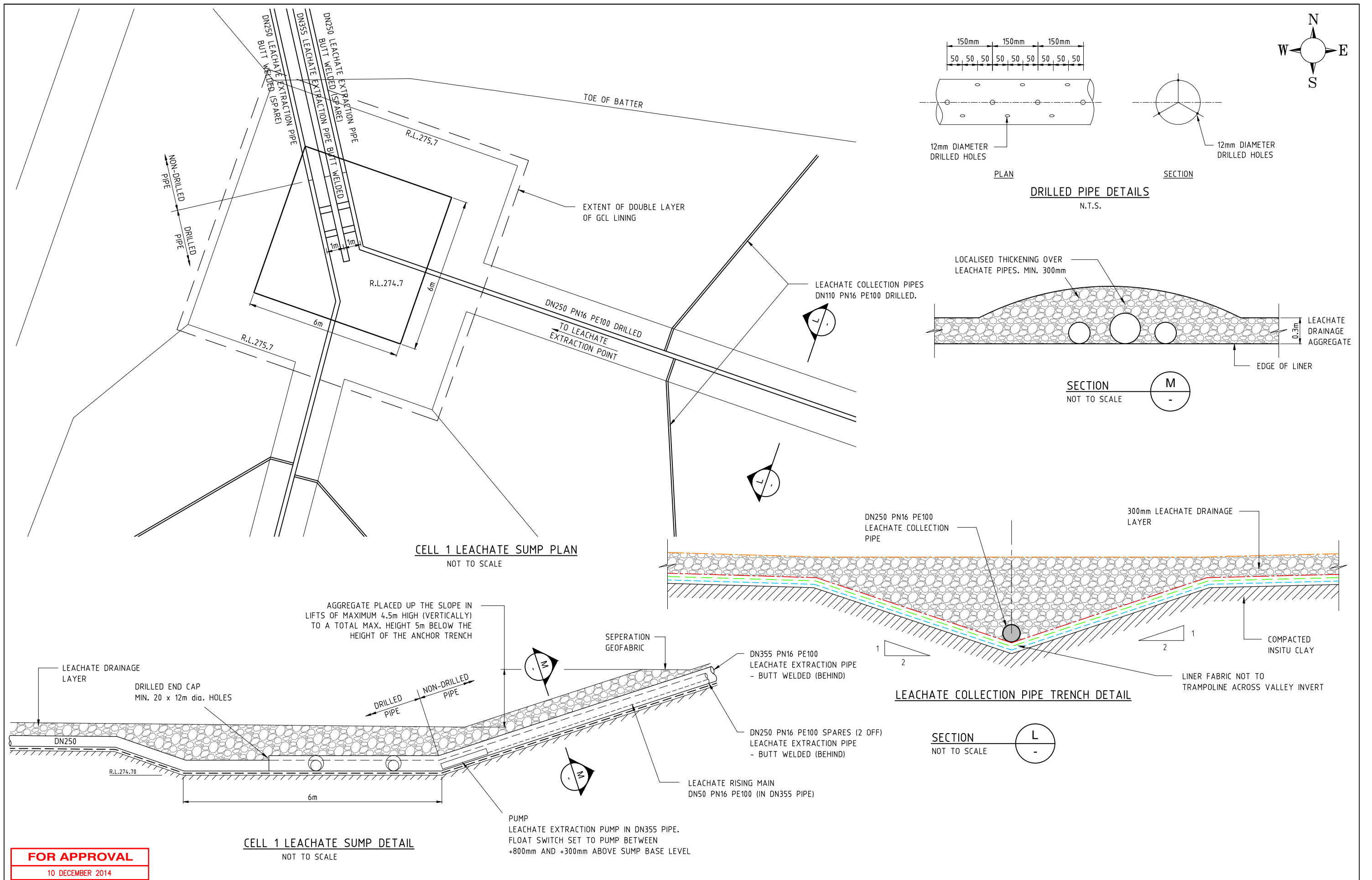
TECHNICALLY APPROVED:		

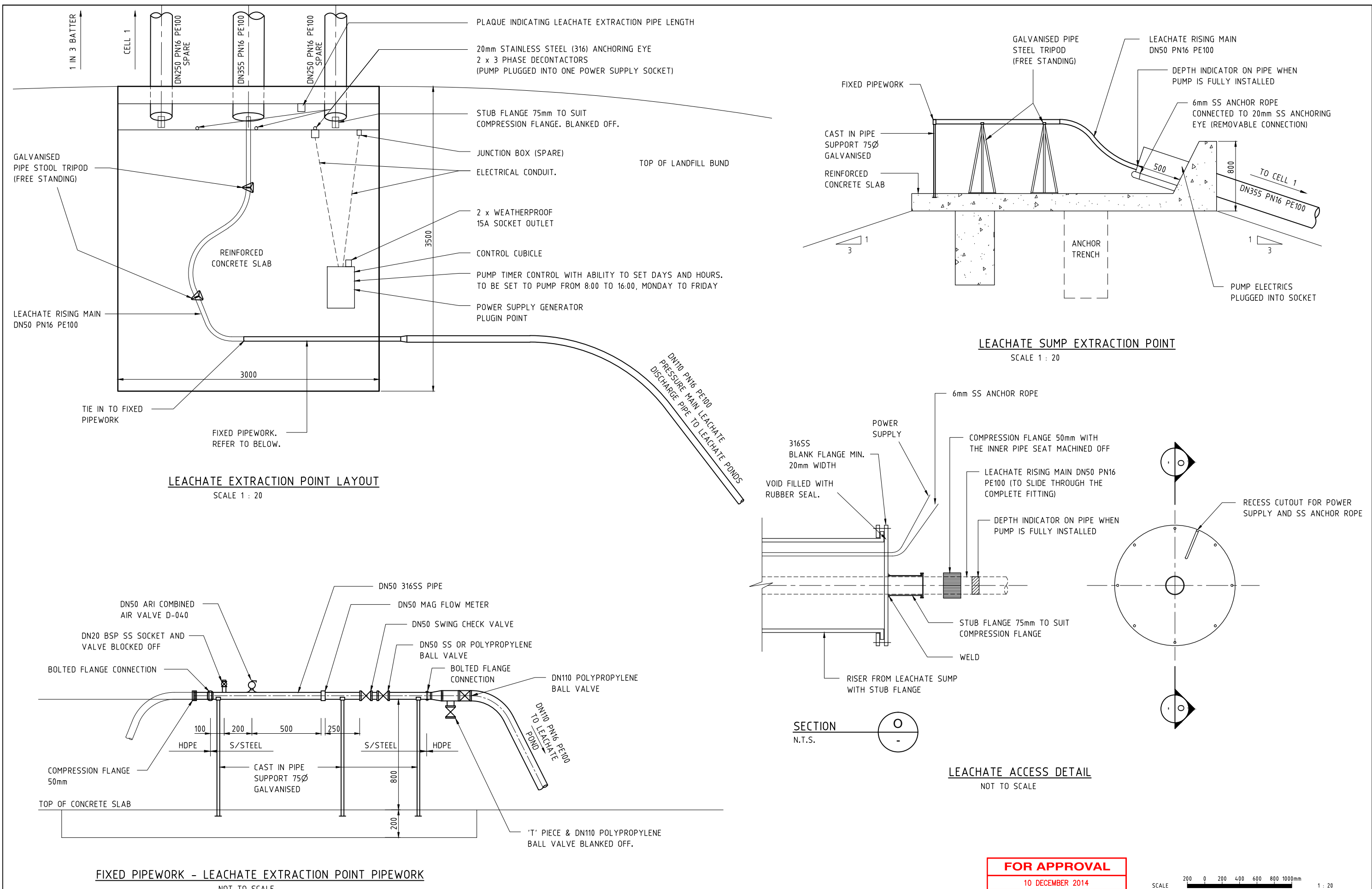


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OPAL VALE PTY LTD		SCALE	AS SHOWN
PROPOSED CLASS II LANDFILL (STAGE 1) LOT 11 CHITTY ROAD, TOODYAY LEACHATE EXTRACTION LAYOUT PLAN		SHEET	08 of
		DRG No.	OV-WA-28





REVISIONS	No.	BY	DATE	DESCRIPTION	DRG. FILE	OV-WA-30.dwg	DATE
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DESIGN	I.W / S.B.Y.	11/14
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DRAWN	S.B.Y.	11/14
					DES. CHK.	I.W.	
					DWG. CHK.	I.W.	

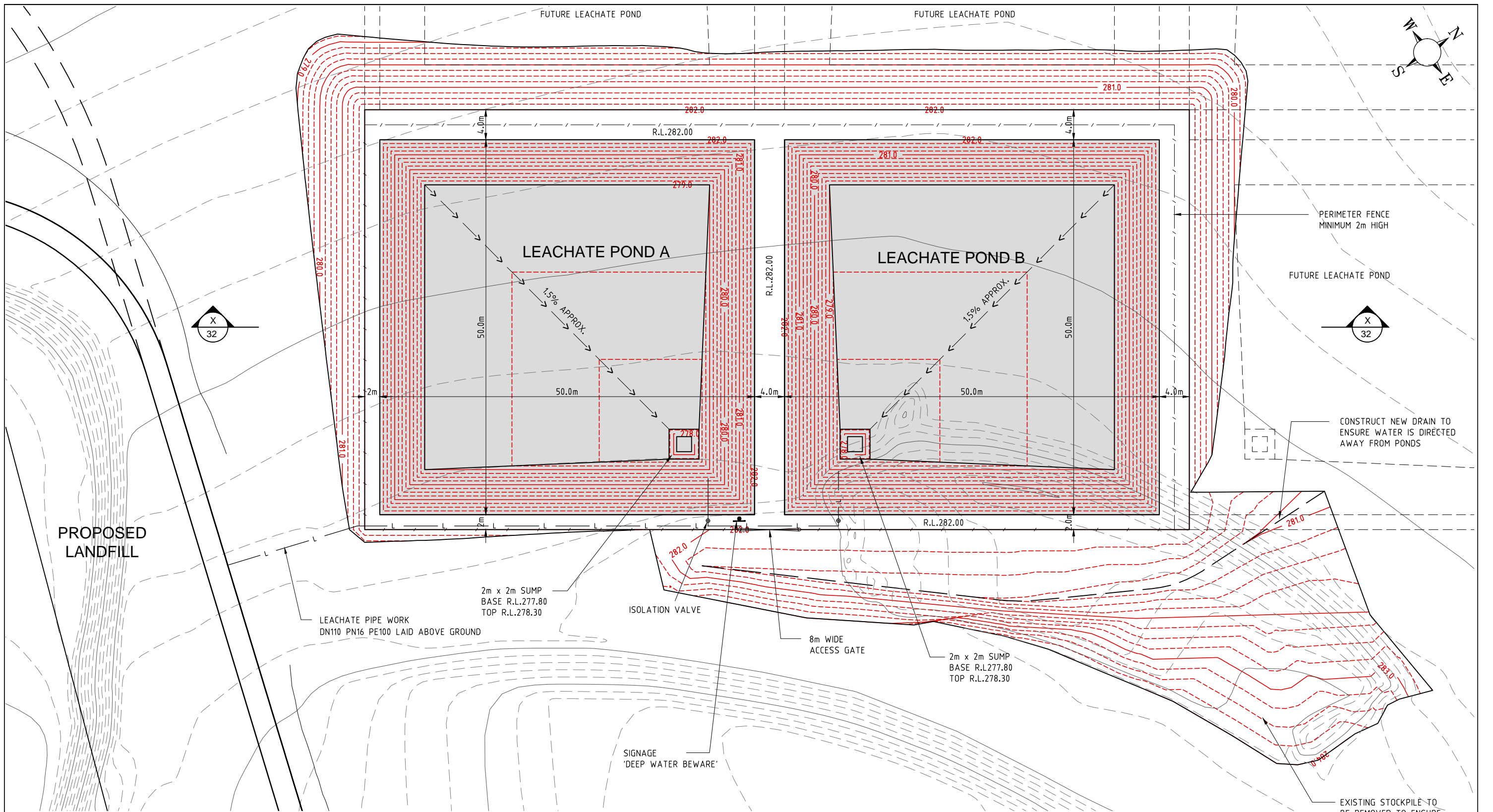
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OPAL VALE PTY LTD		SCALE	AS SHOWN
PROPOSED CLASS II LANDFILL (STAGE 1)		SHEET	10 of
LOT 11 CHITTY ROAD, TOODYAY		REVISION B	
LEACHATE EXTRACTION DETAILS – SHEET 2 OF 2		DRG No.	OV-WA-30



LEACHATE PONDS STORAGE VOLUMES:			
	HEIGHT (R.L.)	STORAGE (m3)	NOTES
POND A	282.00	6224.5	Max. Water Level
	281.50	5024.0	0.5m Freeboard
	279.30	827.5	1m above Sump
POND B	282.00	6224.5	Max. Water Level
	281.50	5024.0	0.5m Freeboard
	279.30	827.5	1m above Sump

FOR APPROVAL
10 DECEMBER 2014

REVISIONS	No.	BY	DATE	DESCRIPTION	DRG. FILE	OV-WA-31.dwg	DATE
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DESIGN	I.W.	11/14
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DRAWN	S.B.Y.	11/14
					DES. CHK.	I.W.	
					DWG. CHK.	I.W.	

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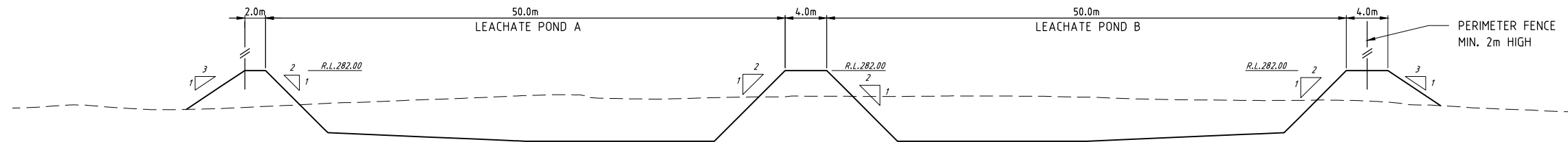
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PROPOSED CLASS II LANDFILL (STAGE 1)
LOT 11 CHITTY ROAD, TOODYAY
LEACHATE EVAPORATION PONDS LAYOUT PLAN

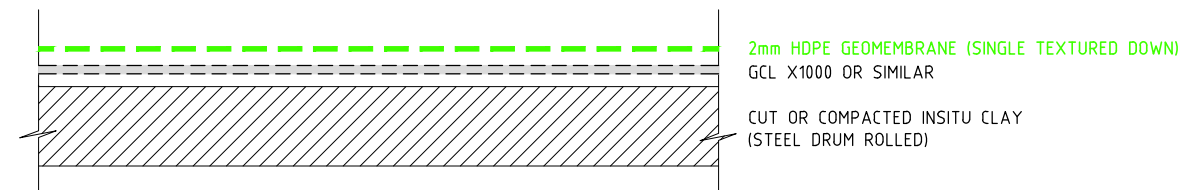
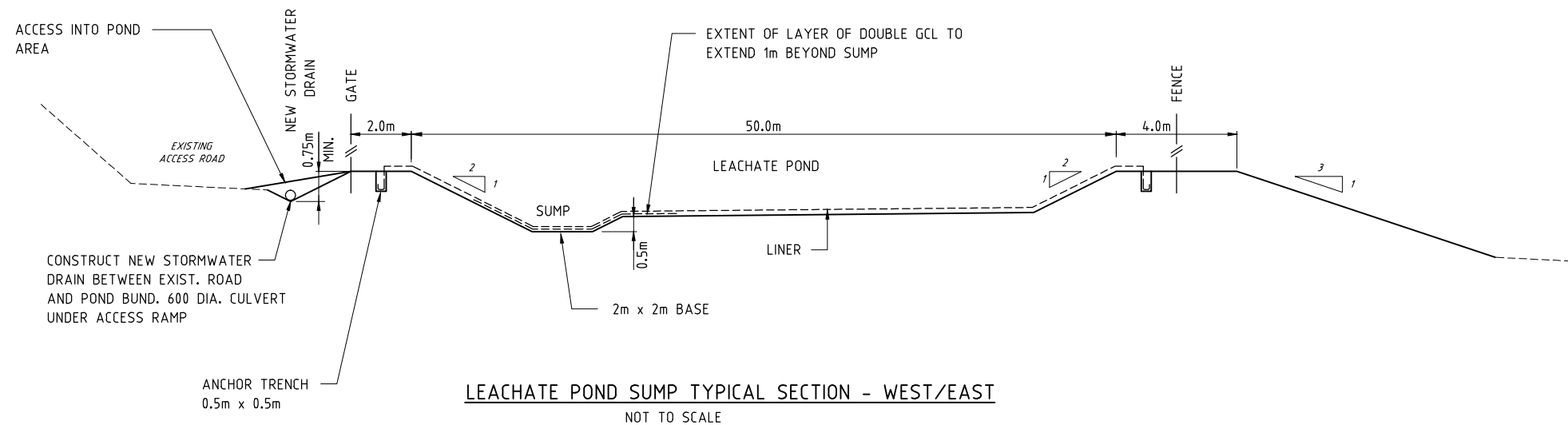
SCALE	AS SHOWN
SHEET	11 of
DRG No.	REVISION B OV-WA-31

SCALE 5 0 5 10 (metres)
1 : 250 (A1) , 1 : 500 (A3)



DATUM RL 275.0

SECTION X
SCALE H 1 : 250 (A1)
V 1 : 125 (A1)



LEACHATE POND LINER CONFIGURATION
NOT TO SCALE

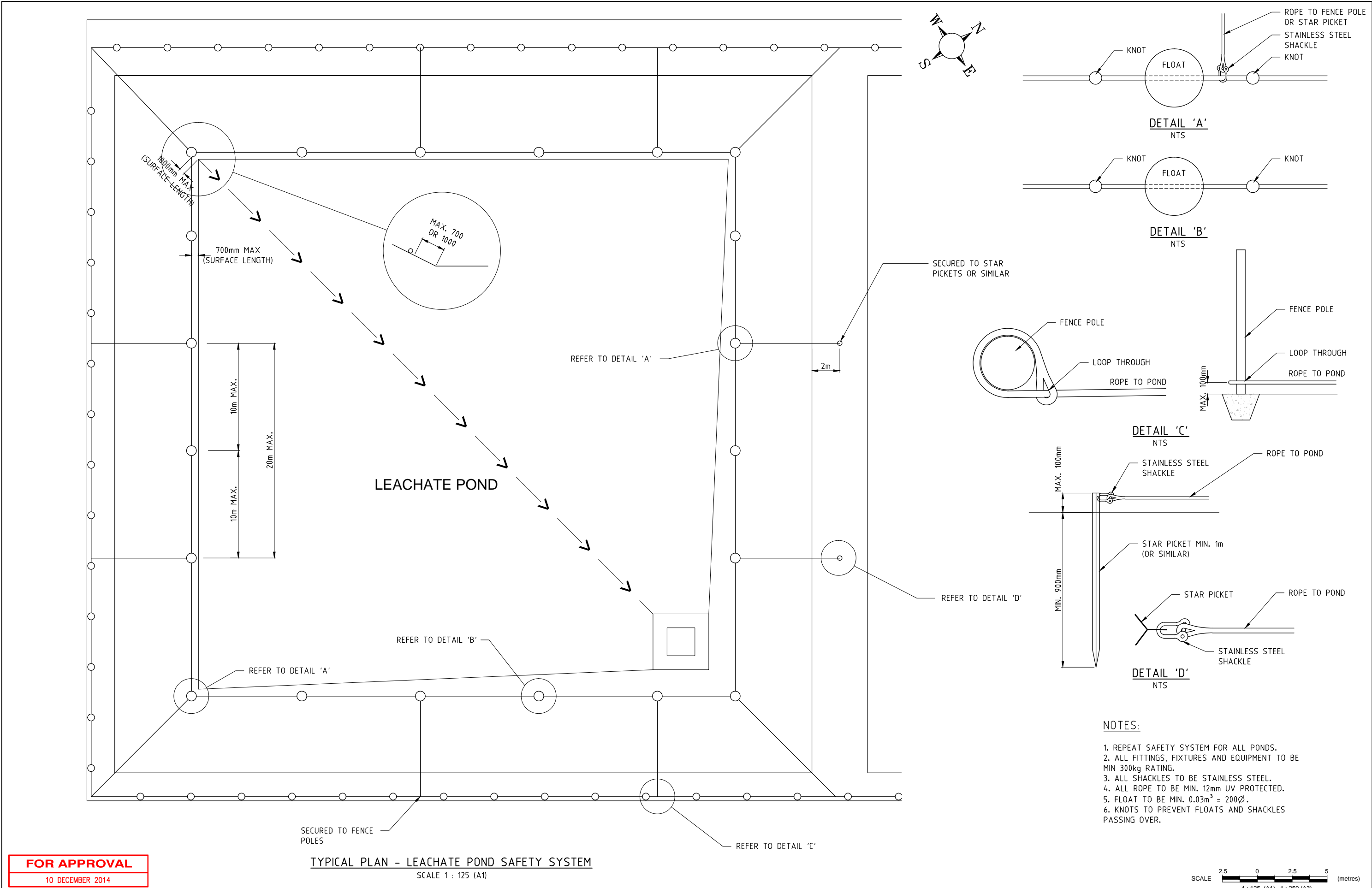
SCALE 2.5 0 2.5 5 (metres)
1 : 125 (A1) , 1 : 250 (A3)

SCALE 5 0 5 10 (metres)

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					DESIGN	I.W.	11/14							
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DRAWN	S.B.Y.	11/14				PROPOSED CLASS II LANDFILL (STAGE 1)	SHEET	12 of	
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.					LOT 11 CHITTY ROAD, TOODYAY	DRG No.	REVISION B	
	No.	BY	DATE	DESCRIPTION	DWG. CHK.	I.W.					LEACHATE EVAPORATION PONDS DETAILS		OV-WA-32	



REVISIONS	No.	BY	DATE	DESCRIPTION	DRG. CHK.	I.W.
					DRG. FILE	OV-WA-33.dwg
					DESIGN	I.W.
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DRAWN	S.B.Y.
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.

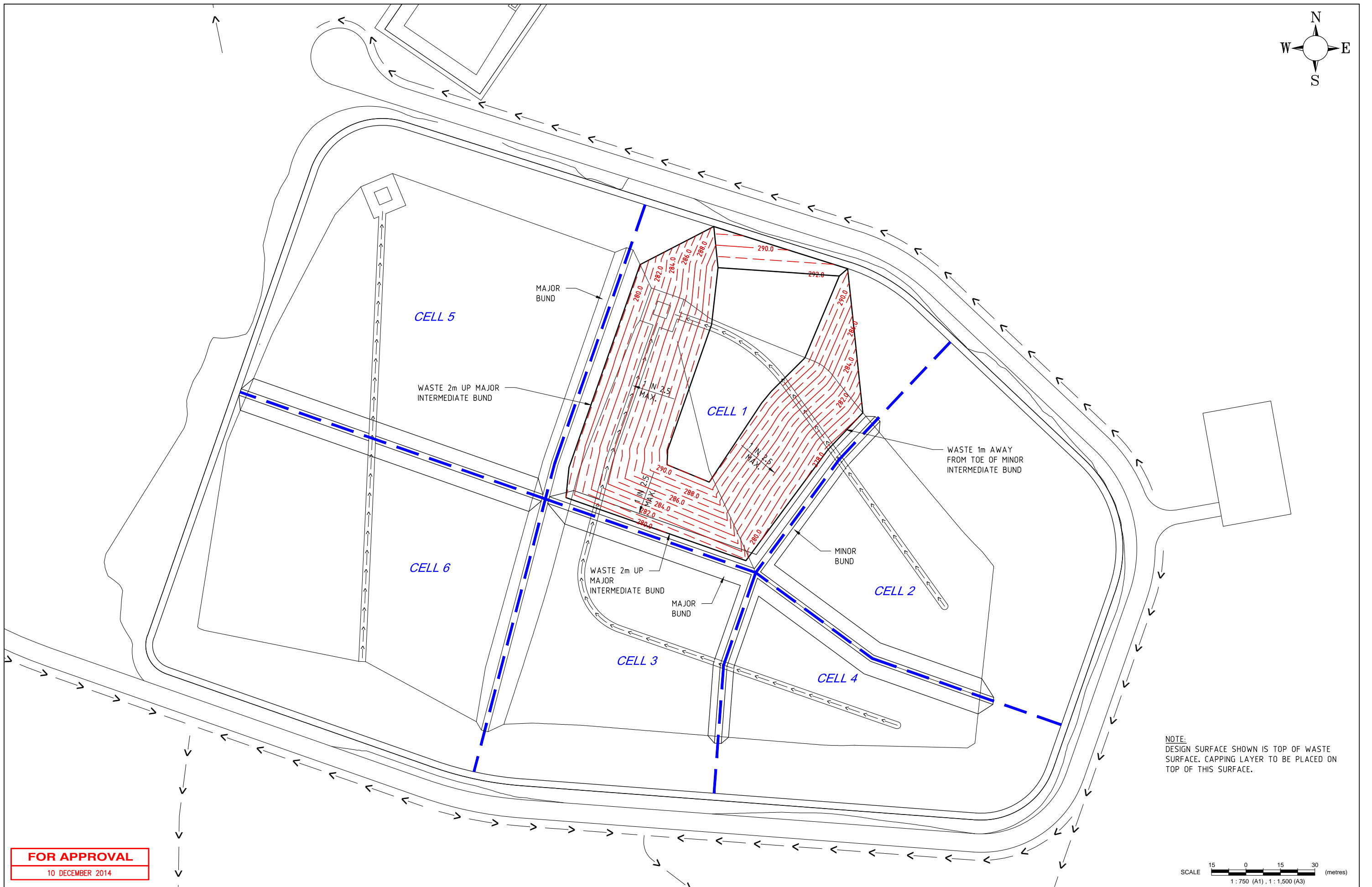
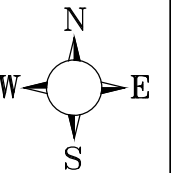
TECHNICALLY APPROVED:			DATE
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PROPOSED CLASS II LANDFILL (STAGE 1) LOT 11 CHITTY ROAD, TOODYAY LEACHATE EVAPORATION POND SAFETY SYSTEM		SHEET	13 of
		DRG No.	OV-WA-33



NOTE:
DESIGN SURFACE SHOWN IS TOP OF WASTE
SURFACE. CAPPING LAYER TO BE PLACED ON
TOP OF THIS SURFACE.

SCALE 15 0 15 30 (metres)
1 : 750 (A1) , 1 : 1,500 (A3)

FOR APPROVAL

10 DECEMBER 2014

REVISIONS	No.	BY	DATE	DESCRIPTION	DRG. FILE	OV-WA-34.dwg	DATE
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DESIGN	I.W / S.B.Y.	11/14
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DRAWN	S.B.Y.	11/14
					DES. CHK.	I.W.	
	No.	BY	DATE	DESCRIPTION	DWG. CHK.	I.W.	

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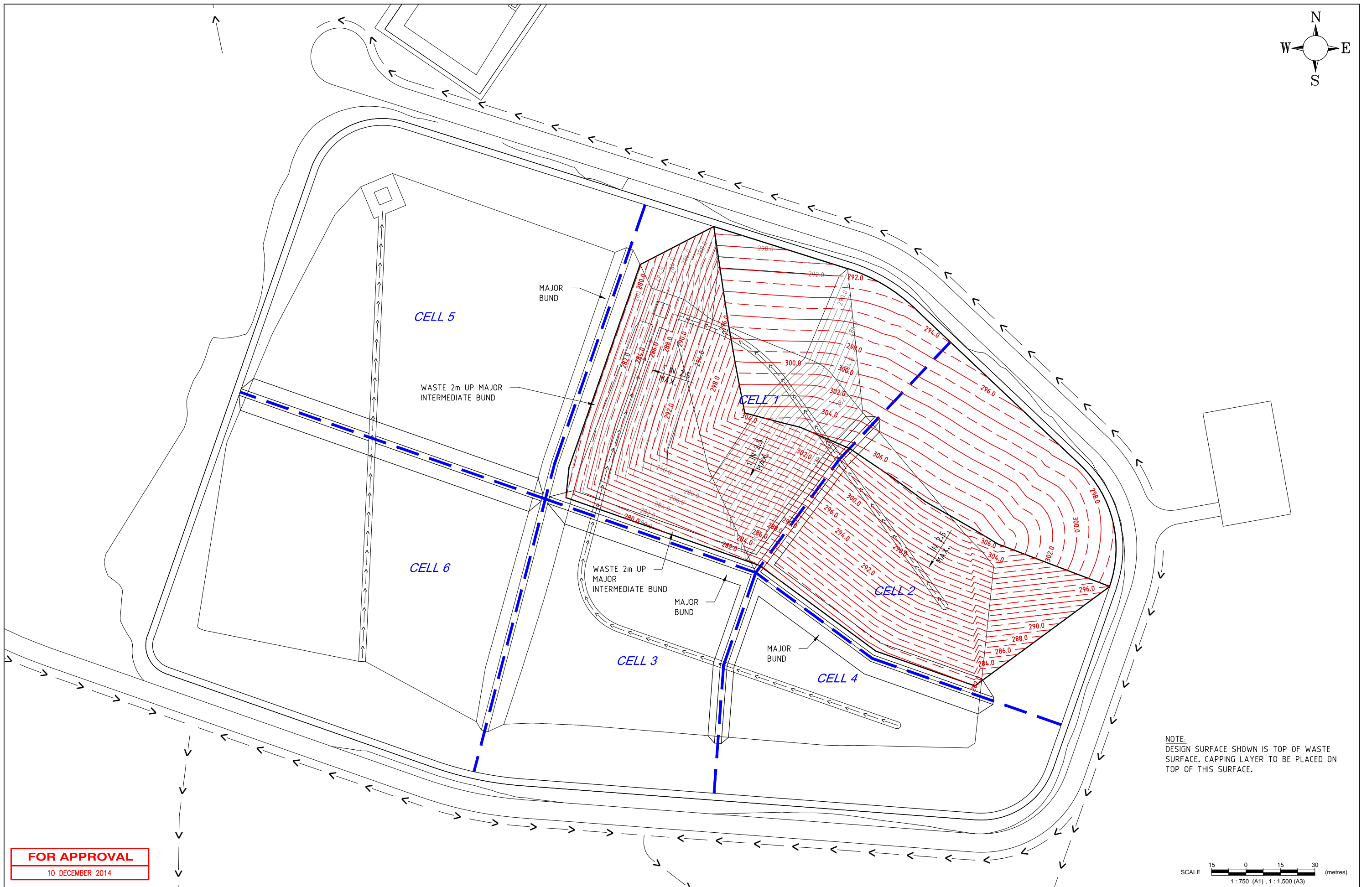
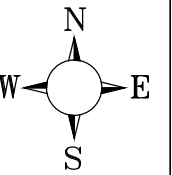
PROPOSED CLASS II LANDFILL (STAGE 1)
LOT 11 CHITTY ROAD, TOODYAY
LANDFILL CELL 1 FILLING LAYOUT PLAN

SCALE AS SHOWN

SHEET 14 of

REVISION B

DRG No. OV-WA-34



REVISIONS	No.	BY	DATE	DESCRIPTION	DRG. CHK.	I.W.
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DRAWN	S.B.Y.
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.

DRG. FILE	OV-WA-35.dwg	DATE	
DESIGN	I.W. / S.B.Y.	11/14	
DRAWN	S.B.Y.	11/14	
DES. CHK.	I.W.		
DWG. CHK.	I.W.		

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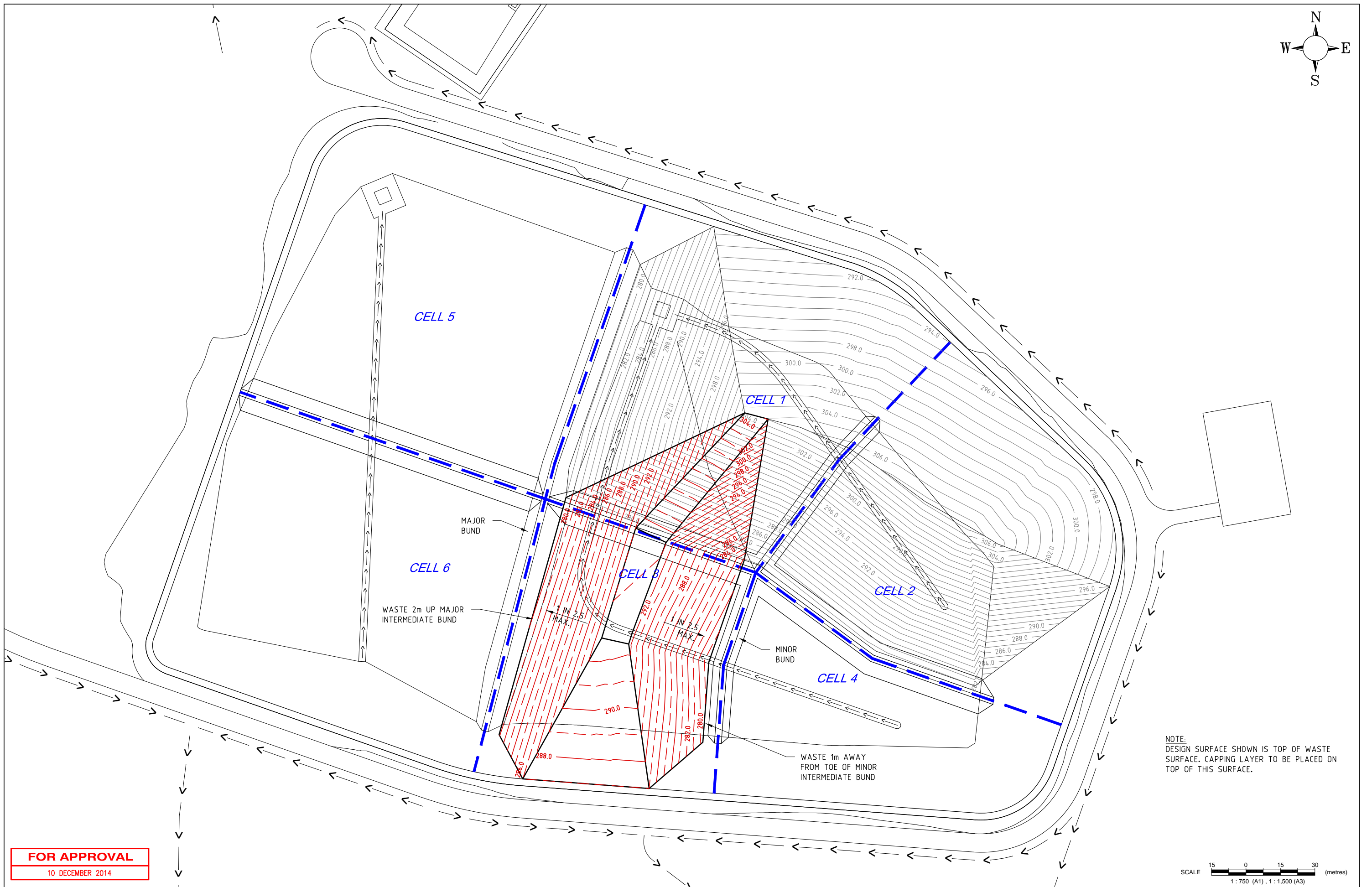
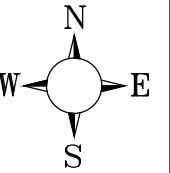
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PROPOSED CLASS II LANDFILL (STAGE 1) LOT 11 CHITTY ROAD, TOODYAY LANDFILL CELL 2 FILLING LAYOUT PLAN	

SCALE	AS SHOWN
SHEET	15 of
DRG No.	OV-WA-35



FOR APPROVAL

10 DECEMBER 2014

REVISIONS	No.	BY	DATE	DESCRIPTION	DWG. CHK.	I.W.
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DRAWN	S.B.Y.
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.

TECHNICALLY APPROVED:

iw Projects

Email - iwatkins@iwprojects.com.au
Mobile - 0402 909 291
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OPAL VALE PTY LTD

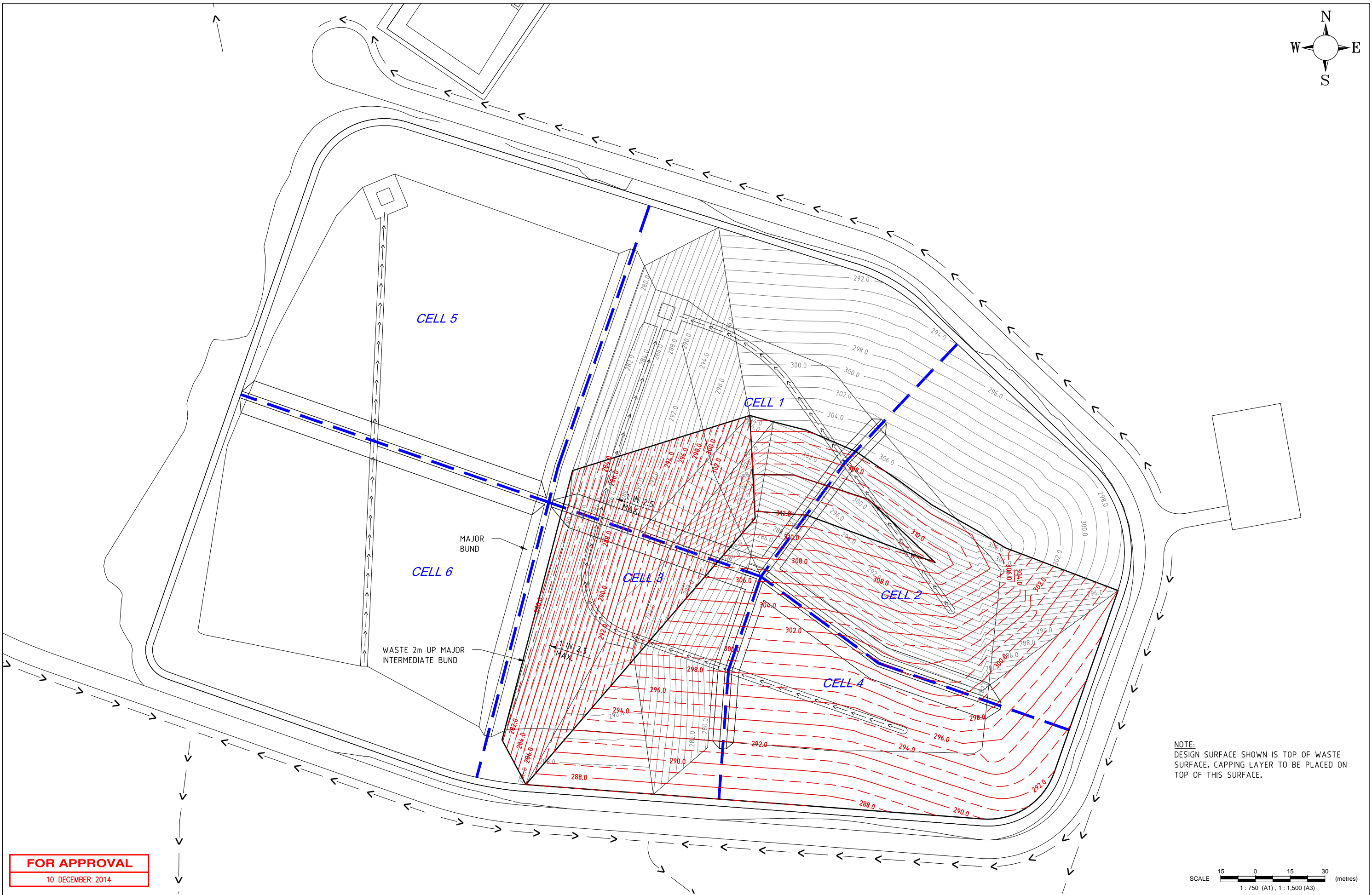
PROPOSED CLASS II LANDFILL (STAGE 1)
LOT 11 CHITTY ROAD, TOODYAY
LANDFILL CELL 3 FILLING LAYOUT PLAN


SCALE AS SHOWN

SHEET 16 of

REVISION B

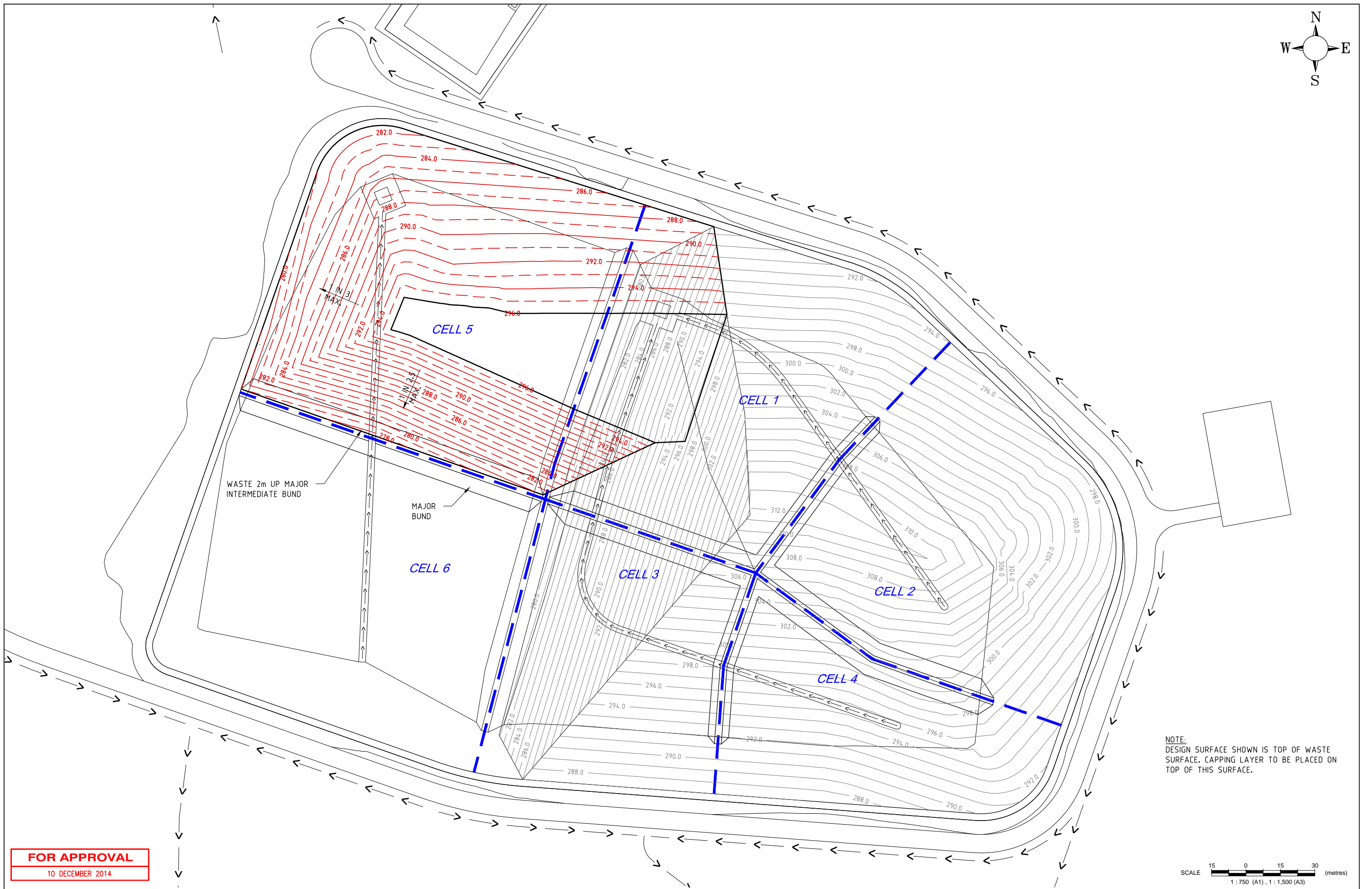
DRG No. OV-WA-36




SCALE  (metres)
1 : 750 (A1) , 1 : 1,500 (A3)

10 DECEMBER 2014

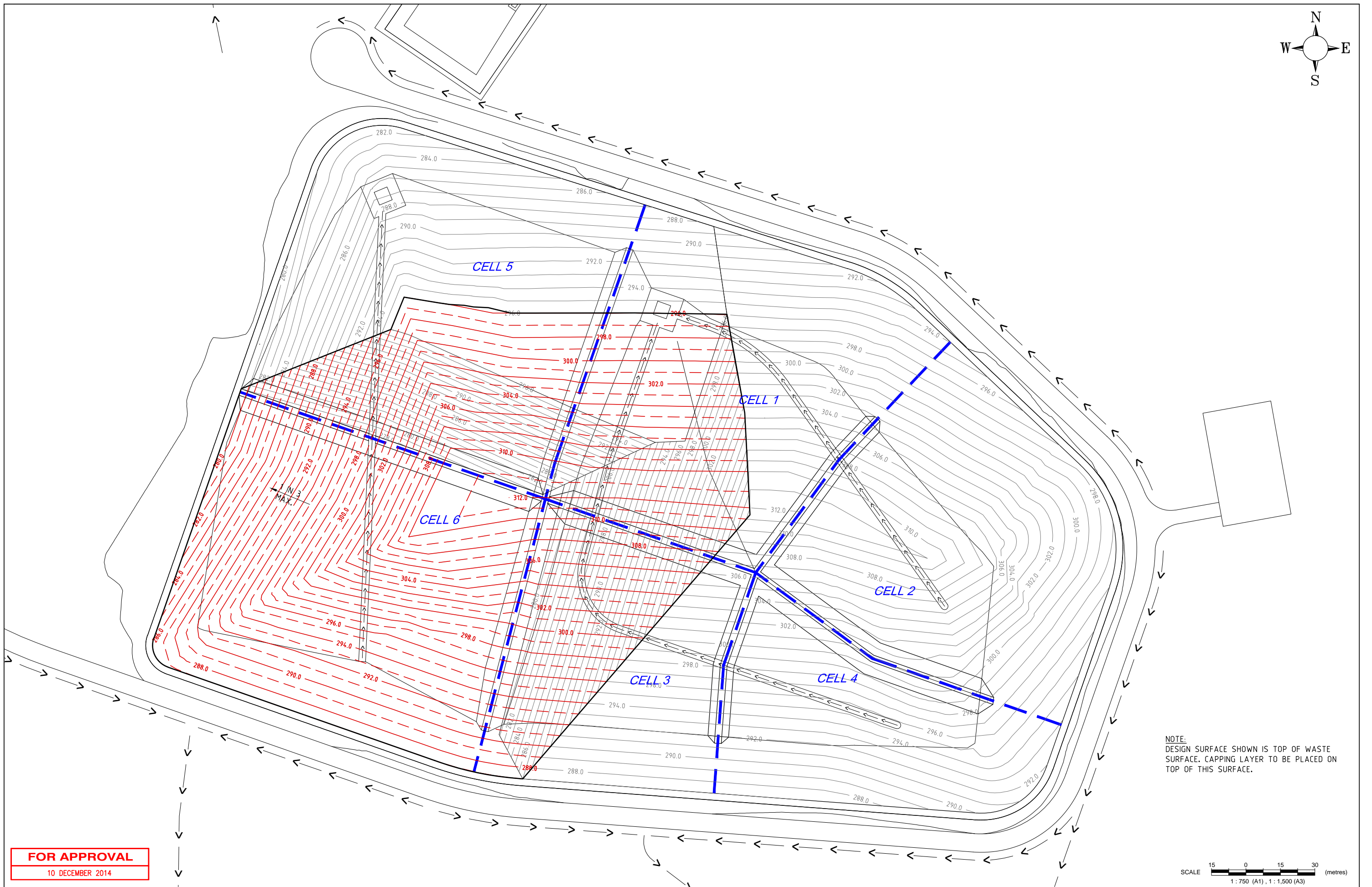
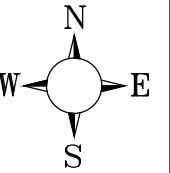
REVISIONS				DRG. FILE	OV-WA-37.dwg	DATE	TECHNICALLY APPROVED:	<div><p><small>COPYRIGHT © These designs and drawings are copyright and are not to be used or reproduced without the written permission of iwPROJECTS. The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved.</small></p><p>Email – iwatkins@iwprojects.com.au Mobile – 0402 909 291 Address – 6 Anembo Close Duncraig 6023</p></div>	OPAL VALE PTY LTD			SCALE	AS SHOWN
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DRAWN	S.B.Y.						11/14	PROPOSED CLASS II LANDFILL (STAGE 1) LOT 11 CHITTY ROAD, TOODYAY LANDFILL CELL 4 FILLING LAYOUT PLAN
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.				DRG No.	REVISION	B	
	No.	BY	DATE	DESCRIPTION	DWG. CHK.	I.W.					OV-WA-37		



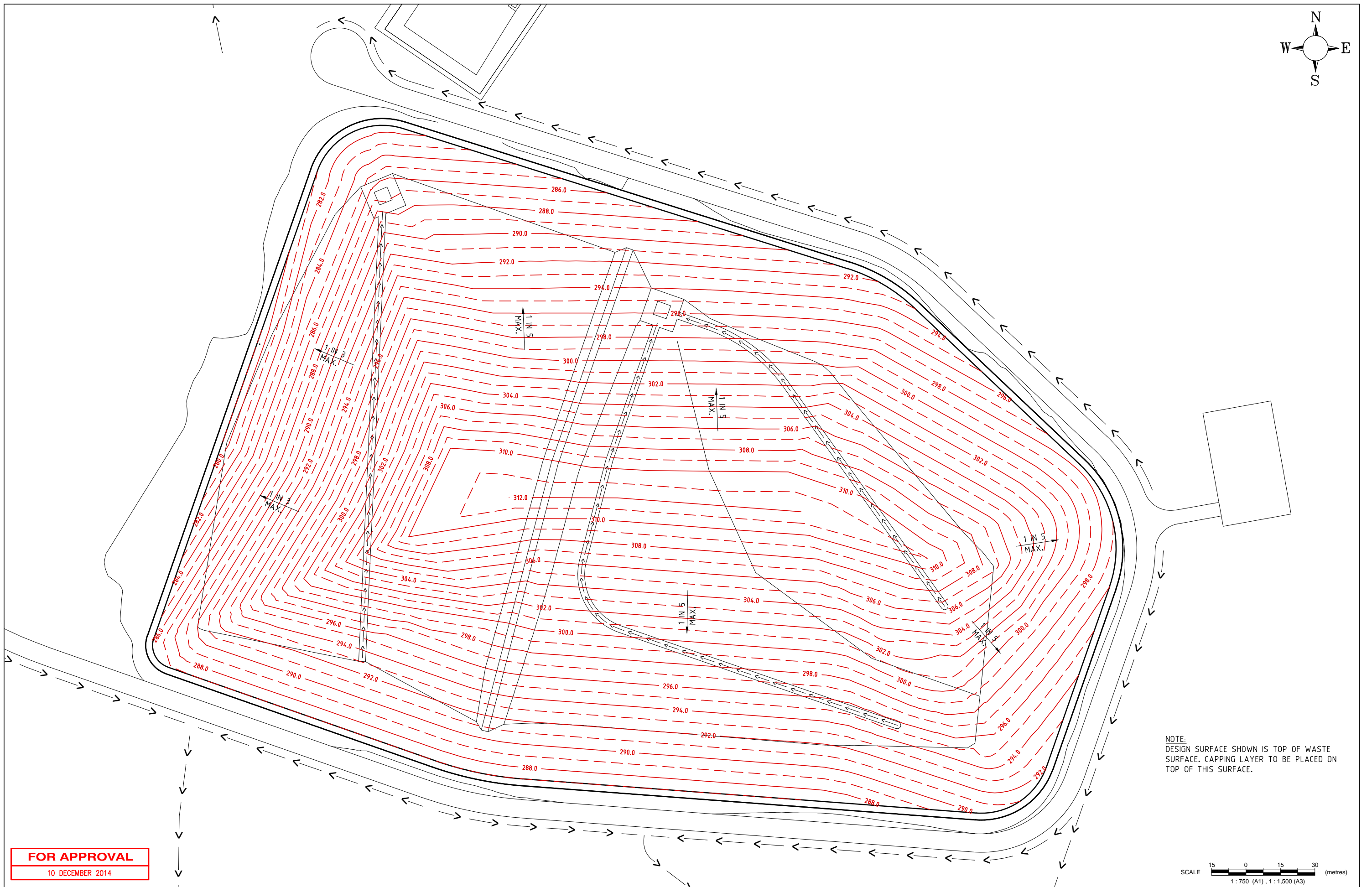
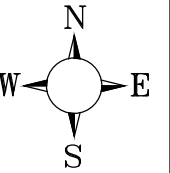
SCALE  (metres)
1 : 750 (A1) , 1 : 1,500 (A3)

10 DECEMBER 2014

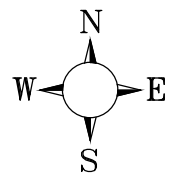
ORG No. | OV-WA-38



REVISIONS				DRG. FILE	OV-WA-39.dwg	DATE	TECHNICALLY APPROVED:	<div><div><div><div>i</div><div>w</div></div><div>Projects</div></div><div><div>Copyright ©</div><div>These designs and drawings are copyright and are not to be used or reproduced without the written permission of IWPROJECTS. The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved.</div></div></div> <div><div>Email</div><div>Mobile</div><div>Address</div></div> <div><div>-</div><div>-</div><div>-</div></div> <div><div>iwatkins@iwprojects.com.au</div><div>0402 909 291</div><div>6 Anembo Close Duncraig 6023</div></div>	OPAL VALE PTY LTD		SCALE	AS SHOWN	
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DRAWN	S.B.Y.			11/14	PROPOSED CLASS II LANDFILL (STAGE 1)		SHEET	19 of
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.				LOT 11 CHITTY ROAD, TOODYAY		DRG No.	<div>REVISION</div> <div>B</div>
	No.	BY	DATE	DESCRIPTION	DWG. CHK.	I.W.				LANDFILL CELL 6 FILLING LAYOUT PLAN			OV-WA-39



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	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DRAWN	S.B.Y.			11/14	PROPOSED CLASS II LANDFILL (STAGE 1)	SHEET	20 of
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.				LOT 11 CHITTY ROAD, TOODYAY	DRG No.	<div>REVISION</div> <div>B</div>
	No.	BY	DATE	DESCRIPTION	DWG. CHK.	I.W.			FINAL PRESETTLEMENT WASTE PROFILE LAYOUT PLAN	OV-WA-40		



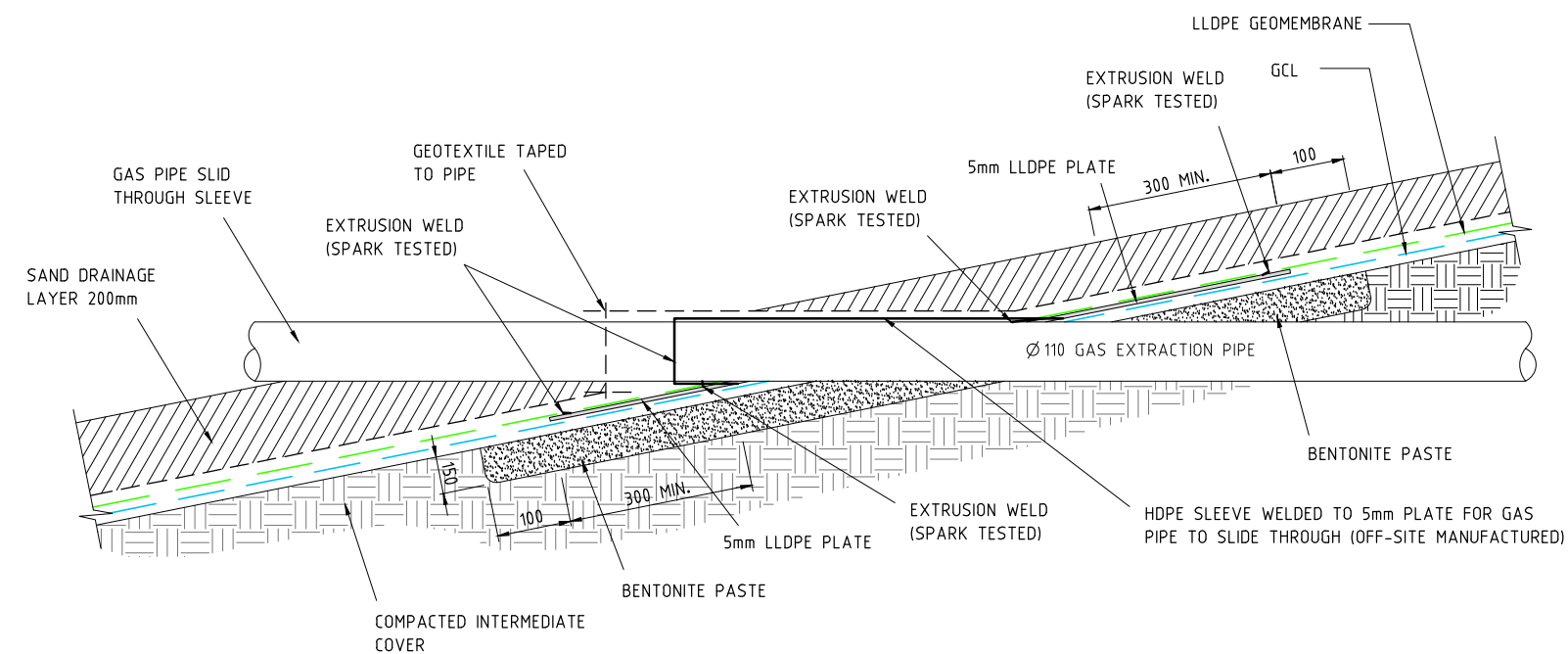
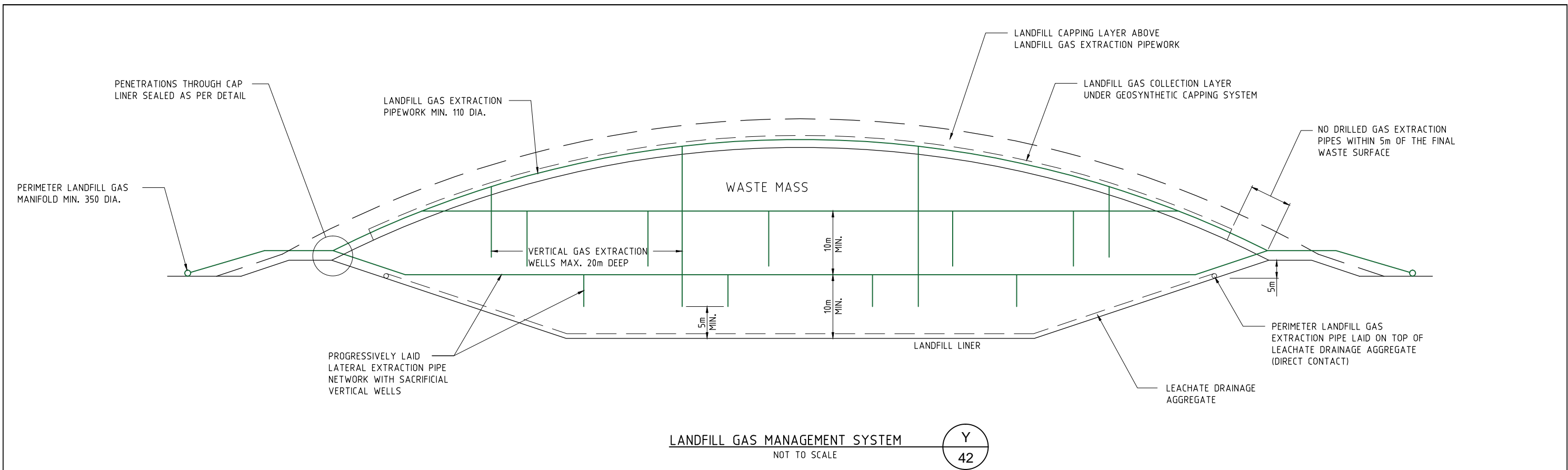
FOR APPROVAL
10 DECEMBER 2014

SCALE 25 0 50 125 (metres)
1 : 2,500 (A1), 1 : 5,000 (A3)

REVISIONS				DRG. FILE	OV-WA-41.dwg	DATE	TECHNICALLY APPROVED:	<div><div><div>iw 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	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DRAWN	S.B.Y.						11/14	SHEET	22 of
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.								
	No.	BY	DATE	DESCRIPTION	DWG. CHK.	I.W.								



PIPE PENETRATION DETAIL
NOT TO SCALE

FOR APPROVAL

10 DECEMBER 2014

REVISIONS					DRG. FILE	OV-WA-43.dwg	DATE	TECHNICALLY APPROVED:	<div><div><div>COPYRIGHT ©</div><div>These designs and drawings are copyright and are not to be used or reproduced without the written permission of IWPROJECTS. The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved.</div></div></div> <div>Email – iwatkins@iwprojects.com.au Mobile – 0402 909 291 Address – 6 Anembo Close Duncraig 6023</div>	OPAL VALE PTY LTD		SCALE	AS SHOWN
					DESIGN	I.W / S.B.Y	11/14						
	B	S.B.Y.	10/12/14	ISSUE FOR APPROVAL	DRAWN	S.B.Y.	11/14				PROPOSED CLASS II LANDFILL (STAGE 1) LOT 11 CHITTY ROAD, TOODYAY	SHEET	23 of
	A	S.B.Y.	28/11/14	PRELIMINARY ISSUE FOR REVIEW	DES. CHK.	I.W.					LANDFILL GAS INSTALLATION DETAILS	DRG No.	REVISION B
	No.	BY	DATE	DESCRIPTION	DWG. CHK.	I.W.							OV-WA-43