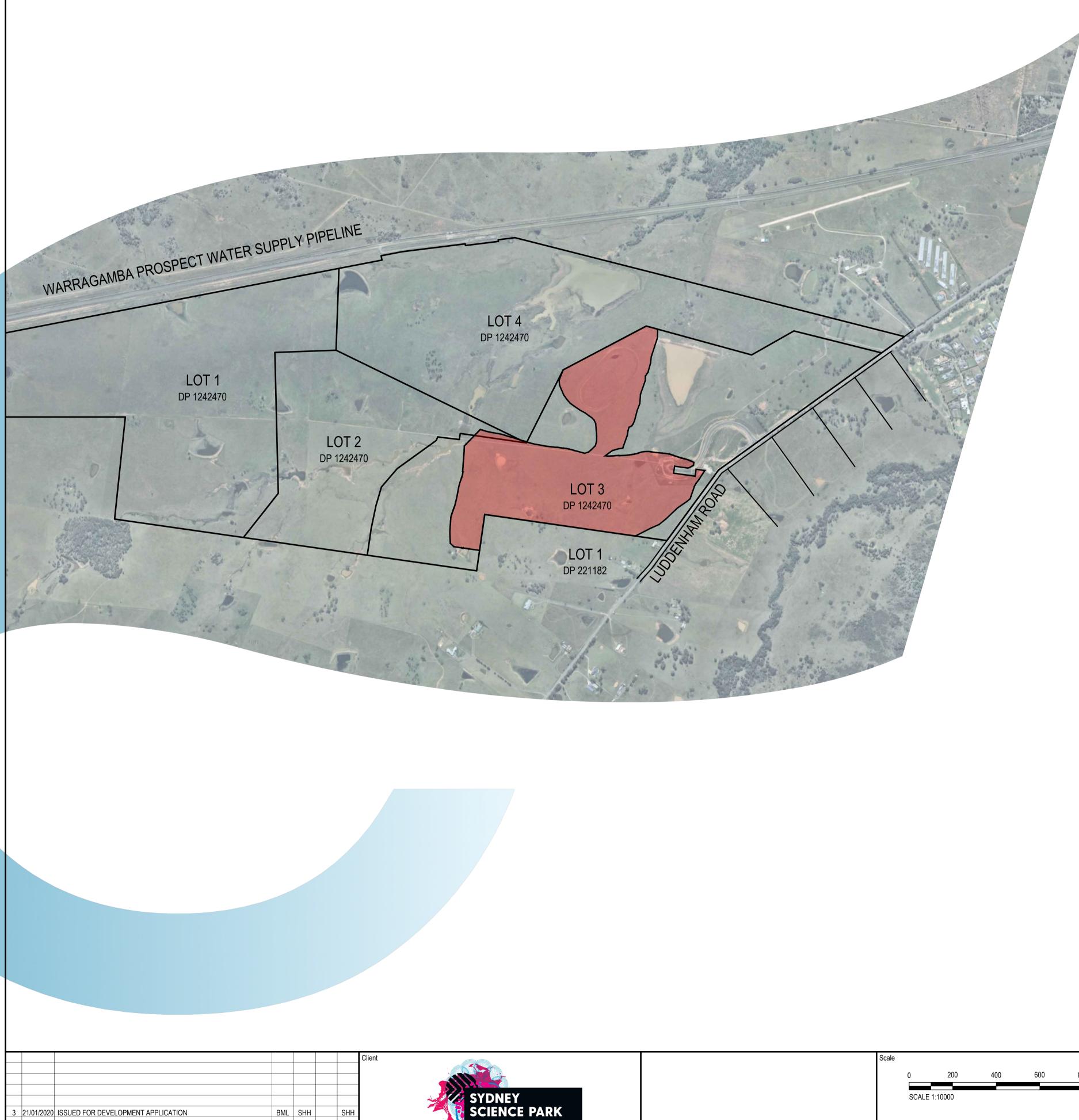
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1	18/11/2019	ISSUED FOR DEVELOPMENT APPLICATION	BML	SHH	MKH	SHH	
REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.	





# **CELESTINO DEVELOPMENTS**

# SYDNEY SCIENCE PARK **BULK EARTHWORKS DEVELOPMENT APPLICATION**

# DRAWING SCHEDULE

DRAWING NUMBER 180001-P1BE-DA-C01.01 180001-P1BE-DA-C01.21 180001-P1BE-DA-C01.41 180001-P1BE-DA-C03.01 180001-P1BE-DA-C03.02 180001-P1BE-DA-C03.21 180001-P1BE-DA-C03.51 180001-P1BE-DA-C04.01 180001-P1BE-DA-C04.21 180001-P1BE-DA-C04.22 180001-P1BE-DA-C04.23 180001-P1BE-DA-C04.24 180001-P1BE-DA-C04.25 180001-P1BE-DA-C04.26 180001-P1BE-DA-C04.27 180001-P1BE-DA-C04.28 180001-P1BE-DA-C05.01 180001-P1BE-DA-C05.02

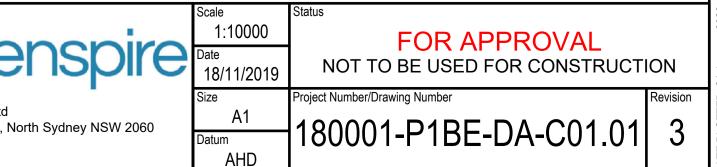
## DESCRIPTION

COVER SHEET AND DRAWING SCHEDULE GENERAL NOTES AND LEGEND GENERAL ARRANGEMENT PLAN EROSION AND SEDIMENTATION CONTROL PLAN - SHEET 01 **EROSION AND SEDIMENTATION CONTROL PLAN - SHEET 02** EROSIOIN AND SEDIMENTATION CONTROL DETAILS SALINITY MANAGEMENT PLAN CUT AND FILL PLAN SITE SECTIONS - SHEET 01 SITE SECTIONS - SHEET 02 SITE SECTIONS - SHEET 03 SITE SECTIONS - SHEET 04 SITE SECTIONS - SHEET 05 SITE SECTIONS - SHEET 06 SITE SECTIONS - SHEET 07 SITE SECTIONS - SHEET 08 BULK EARTHWORKS PLAN - SHEET 01 BULK EARTHWORKS PLAN - SHEET 02

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SYDNEY SCIENCE



# ACCESS AND SAFETY

- THE CONTRACTOR SHALL COMPLY WITH ALL STATUTORY AND INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.
- THE CONTRACTOR SHALL PROVIDE TRAFFIC MANAGEMENT PLANS FOR THE PROPOSED WORKS COMPLETED BY A SUITABLY QUALIFIED PERSON AND APPROVED BY COUNCIL / REGULATORY AUTHORITY, WORK IS NOT TO COMMENCE ON SITE PRIOR TO APPROVAL OF TRAFFIC MANAGEMENT SCHEME.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO BUILDINGS ADJACENT THE WORKS IS NOT DISRUPTED.
- WHERE NECESSARY THE CONTRACTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.
- THE CONTRACTOR SHALL ENSURE PUBLIC ACCESS EXTERNAL TO THE SITE IS IN ACCORDANCE WITH COUNCILS REQUIREMENTS.

# SURVEY

- THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN SUPPLIED BY REGISTERED SURVEYORS TO PROVIDE A BASIS FOR DESIGN. THE USE OF THIS SURVEY BASE DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
- SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT THE DESIGN ENGINEER.
- THE RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES ARE DIAGRAMMATIC ONLY. WHERE DISTANCES TO BOUNDARIES ARE CRITICAL THEY SHOULD BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION BY FURTHER SURVEY.

# **EXISTING SERVICES**

- ALL UTILITY SERVICES INDICATED ON THE DRAWINGS ORIGINATE FROM SUPPLIED DATA OR DIAL BEFORE YOU DIG SEARCHES, THEREFORE THEIR ACCURACY AND COMPLETENESS IS NOT GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND CONFIRM THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE PRINCIPALS REPRESENTATIVE. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY. NOTE SERVICE AUTHORITY REQUIREMENTS FOR LOCATING OF SERVICES PRIOR TO COMMENCEMENT OF WORKS.
- CARE TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER COMMUNICATION, GAS OR ELECTRICAL SERVICES. HAND EXCAVATION ONLY IN THESE AREAS.
- THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING SERVICES THAT ARE TO BE RETAINED IN THE VICINITY OF THE PROPOSED WORKS. ANY AND ALL DAMAGE TO THESE SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE PRINCIPALS REPRESENTATIVE AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR THE ADJUSTMENT (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS.
- THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR THE CAPPING OFF. EXCAVATION AND REMOVAL (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS UNLESS DIRECTED OTHERWISE ON THE DRAWINGS OR BY THE PRINCIPALS REPRESENTATIVE.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED AND MAINTAINED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF THE PROGRAM FROM THE RELEVANT AUTHORITY AND PRINCIPALS REPRESENTATIVE FOR THE RELOCATION AND/OR CONSTRUCTION OF TEMPORARY SERVICES AND FOR ANY ASSOCIATED INTERRUPTION OF SUPPLY.
- THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE PRINCIPALS REPRESENTATIVE.

# SEDIMENT AND SOIL EROSION

- 1. THE SEDIMENT & EROSION CONTROL PLAN PRESENTS CONCEPTS ONLY. THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE ESTABLISHMENT & MANAGEMENT OF A DETAILED SCHEME TO COUNCILS SATISFACTION, OTHER REGULATORY AUTHORITY REQUIREMENTS AND PAY ALL FEES.
- 2. THE CONTRACTOR SHALL INSTIGATE ALL SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH STATUTORY REQUIREMENTS AND IN PARTICULAR THE 'BLUE BOOK' (MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION), PRODUCED BY LANDCOM AND COUNCILS POLICIES. THESE MEASURES ARE TO BE INSPECTED AND MAINTAINED ON A DAILY BASIS.
- THE CONTRACTOR SHALL INFORM ALL SUB CONTRACTORS OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.
- WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE SHALL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE; 4.1.CONSTRUCT TEMPORARY STABILISED SITE ACCESS INCLUSIVE OF
- SHAKE DOWN / WASH PAD. 4.2.INSTALL ALL TEMPORARY SEDIMENT FENCES AND BARRIER FENCES. WHERE FENCES ADJACENT EACH OTHER, THE SEDIMENT FENCE CAN BE INCORPORATED INTO THE BARRIER FENCE. 4.3.INSTALL SEDIMENT CONTROL MEASURES AS OUTLINED ON THE APPROVED PLANS.
- 5. UNDERTAKE SITE DEVELOPMENT WORKS SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF MINIMUM WORKABLE SIZE.
- 6. AT ALL TIMES AND IN PARTICULAR DURING WINDY AND DRY WEATHER, LARGE UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL ENSURING CONFORMITY TO REGULATORY AUTHORITY REQUIREMENTS.
- ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) SHALL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
- WATER SHALL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN STABILISED AND/OR ANY LIKELY SEDIMENT BEEN FILTERED OUT.
- TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES SHALL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE STABILISED / REHABILITATED.
- 10. ALLOW FOR GRASS STABILISATION OF EXPOSED AREAS, OPEN CHANNELS AND BATTERS ON COMPLETION OF CONSTRUCTION.
- 1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED TO ENSURE THAT THEY OPERATE EFFECTIVELY. REPAIRS AND/OR MAINTENANCE SHALL BE UNDERTAKEN REGULARLY AND AS REQUIRED. PARTICULARLY FOLLOWING RAIN EVENTS.
- 12. RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER SHALL BE DISPOSED OF IN ACCORDANCE WITH REGULATORY AUTHORITY REQUIREMENTS. CONTRACTOR TO PAY ALL FEES AND PROVIDE EVIDENCE OF SAFE DISPOSAL.
- 13. IF A TEMPORARY SEDIMENT BASIN IS REQUIRED, ENSURE SAFE BATTER SLOPES IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. MAINTAIN ADEQUATE STORAGE VOLUME IN ACCORDANCE WITH PLANS. TEMPORARILY PUMP 'CLEAN FLOCCULATED' WATER FOR SITE DUST CONTROL. WHERE APPROVED BY COUNCIL, PUMPED WATER MAY BE DISCHARGED TO COUNCIL'S STORMWATER SYSTEM. ENSURE WHOLE SITE RUN-OFF IS DIRECTED TO TEMPORARY SEDIMENT BASIN.

# EARTHWORKS

LOCATION LANDSCAPE ROADS SPECIFICAT PAVED ARE SPECIFICATIONS)

- GROUND.

- DEEP EXCAVATIONS
- REPORT.
- PAVEMENT.
- Client SCIENCE PARK 2 21/01/2020 ISSUED FOR DEVELOPMENT APPLICATION SHF BML SHH **CELESTIN** 1 18/11/2019 ISSUED FOR DEVELOPMENT APPLICATION BML SHH MKH SHF EV. DATE DESCRIPTION DRN. DES. VERIF. APPD

1. AT THE COMMENCEMENT OF FILLING OPERATIONS FOR BULK EARTH A GEOTECHNICAL ENGINEER IS TO VISIT THE SITE & CONFIRM THE SUITABILITY OF THE METHODOLOGY OF ACHIEVING THE REQUIRED COMPACTION REQUIREMENTS.

2. STRIP TOPSOIL. VEGETABLE MATTER AND RUBBLE TO EXPOSE NATU OCCURRING MATERIAL AND STOCKPILE ON SITE AS DIRECTED BY TH PRINCIPALS REPRESENTATIVE.

WHERE FILLING IS REQUIRED TO ACHIEVE DESIGN SUBGRADE, PROC EXPOSED NATURAL SURFACE WITH A MINIMUM OF TEN PASSES OF A NON-VIBRATING/STATIC ROLLER (MINIMUM STATIC WEIGHT OF 10 TO IN THE PRESENCE OF THE PRINCIPALS REPRESENTATIVE.

4. THE CONTRACTOR IS TO ALLOW FOR A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER TO PROVIDE ADVICE AND CERTIFICATION OF ANY WORKS ASSOCIATED WITH TREATING OR MANAGING UNSUITABLE GROUND CONDITIONS THROUGHOUT THE CONTRACT (e.g. STABILITY OF EXCAVATIONS, POOR SUBGRADE, etc).

5. ALL SOFT, WET OR UNSUITABLE MATERIAL IS TO BE REMOVED AS DIRECTED BY THE PRINCIPALS REPRESENTATIVE AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS BELOW.

6. PROVIDE CERTIFICATES VERIFYING THE QUALITY OF IMPORTED MATERIAL FOR THE PRINCIPALS REPRESENTATIVE APPROVAL.

7. ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200mm THICK LAYERS (LOOSE) AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE A DRY DENSITY DETERMINED IN ACCORDANCE WITH AS1289.2.1.1, AS1289.5.7.1 AND AS1289.5.8.8 OF NOT LESS THAN THE FOLLOWING STANDARD MINIMUM DRY DENSITY;

PED AREAS	COMPACTION REQUIREMENT 95% SMDD 100% SMDD (IN ACCORDANCE WITH COUNCIL
TIONS)	
EAS	100% SMDD (IN ACCORDANCE WITH COUNCIL

. TESTING OF THE SUBGRADE FOR BUILDINGS SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A. REGISTERED LABORATORY.

9. ALLOW THE FOLLOWING COMPACTION TESTING BY N.A.T.A. REGISTERED LABORATORY FOR PLATFORMS AND FILL LAYERS IN ACCORDANCE WITH THE LATEST VERSION OF AS3798. (MINIMUM 3 TESTS PER LAYER) OR 1 TEST PER MATERIAL TYPE PER 2500sg.m.

10. WHERE TEST RESULTS ARE BELOW THE SPECIFIED COMPACTION. RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION STANDARDS ARE ACHIEVED, OTHERWISE SUBGRADE REPLACEMENT IS REQUIRED IF COMPACTION STANDARDS ARE NOT ACHIEVED.

11. ALLOW FOR EXCAVATION IN ALL MATERIALS AS FOUND U.N.O. NO ADDITIONAL PAYMENTS WILL BE MADE FOR EXCAVATION IN WET OR HARD

12. WHERE THERE IS INSUFFICIENT EXCAVATED MATERIAL SUITABLE FOR FILLING OR SUBGRADE REPLACEMENT, THE CONTRACTOR IS TO ALLOW TO IMPORT FILL. IMPORTED FILL SHALL COMPLY WITH THE FOLLOWING; 12.1. BE OF VIRGIN EXCAVATED NATURAL MATERIAL OR 12.2. CONTRACTOR TO PROVIDE EVIDENCE IMPORT IS SUITABLE USE 12.3. PLASTICITY INDEX BETWEEN 2-15% AND CBR > 8 12.4. FREE FROM ORGANIC AND DELETERIOUS MATTER

12.5. MAXIMUM SIZE 50mm, PASSING 75 MICRON SIEVE (<25%) 13. THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLERS MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED AT THEIR COST.

14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE AND MAINTAIN THE INTEGRITY OF ALL SERVICES, CONDUITS AND PIPES DURING CONSTRUCTION, SPECIFICALLY DURING THE BACKFILLING AND COMPACTION PROCEDURE. ANY AND ALL DAMAGE TO NEW OR EXISTING SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PRINCIPALS REPRESENTATIVE.

15. TESTING OF THE SUBGRADE SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A. REGISTERED LABORATORY AT THE CONTRACTORS EXPENSE.

16. PRIOR TO THE COMMENCEMENT OF EXCAVATION WORKS GREATER THAN 1.5m IN DEPTH, THE CONTRACTOR SHALL CONFIRM WITH A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER TO DETERMINE THE STABILITY OF A NATURAL MATERIAL AND BENCHING REQUIREMENTS.

17. THE CONTRACTOR MUST PROVIDE THE PRINCIPALS REPRESENTATIVE AND THE DESIGN ENGINEER WITH A COPY OF THE GEOTECHNICAL ENGINEERS

18. THE CONTRACTOR IS TO PROVIDE SAFETY BARRIERS / FENCING IN ACCORDANCE WITH OH&S AND REGULATORY AUTHORITY REQUIREMENTS.

SERVICES TRENCHES

19. SAWCUT EXISTING SURFACES PRIOR TO EXCAVATION. BACKFILL ALL TRENCHES UNDER EXISTING ROADS, PAVEMENTS AND PATHS WITH STABILISED SAND 5% CEMENT OR DGS40 MATERIAL (100% SMDD) COMPACTED IN 200mm THICK LAYERS TO 98% MMDD TO UNDERSIDE OF

20. BACKFILL ALL TRENCHES NOT UNDER ROADS, PAVEMENTS, PATHS AND BUILDINGS WITH APPROVED EXCAVATED OR IMPORTED MATERIAL COMPACTED TO 95% SMDD.

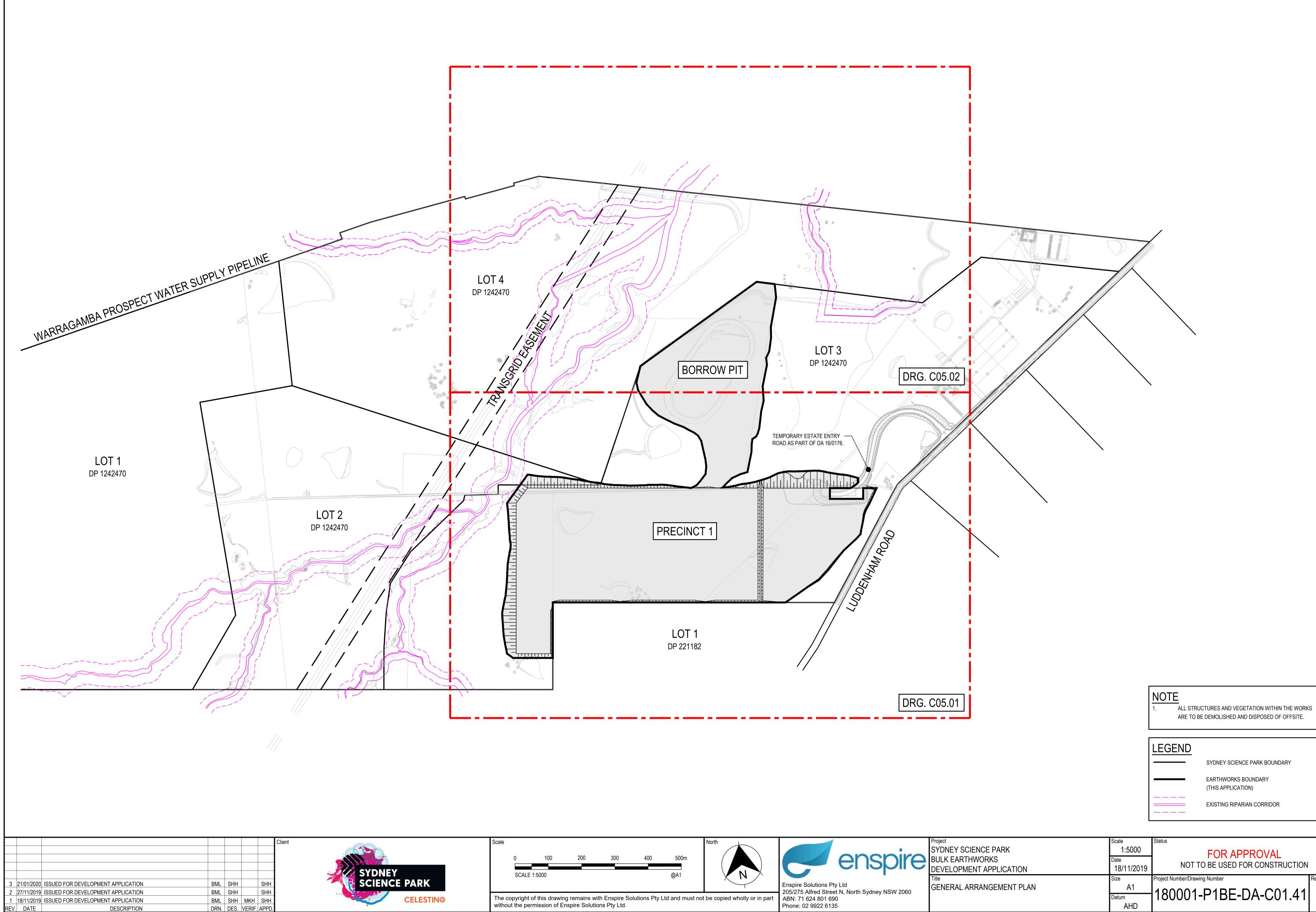
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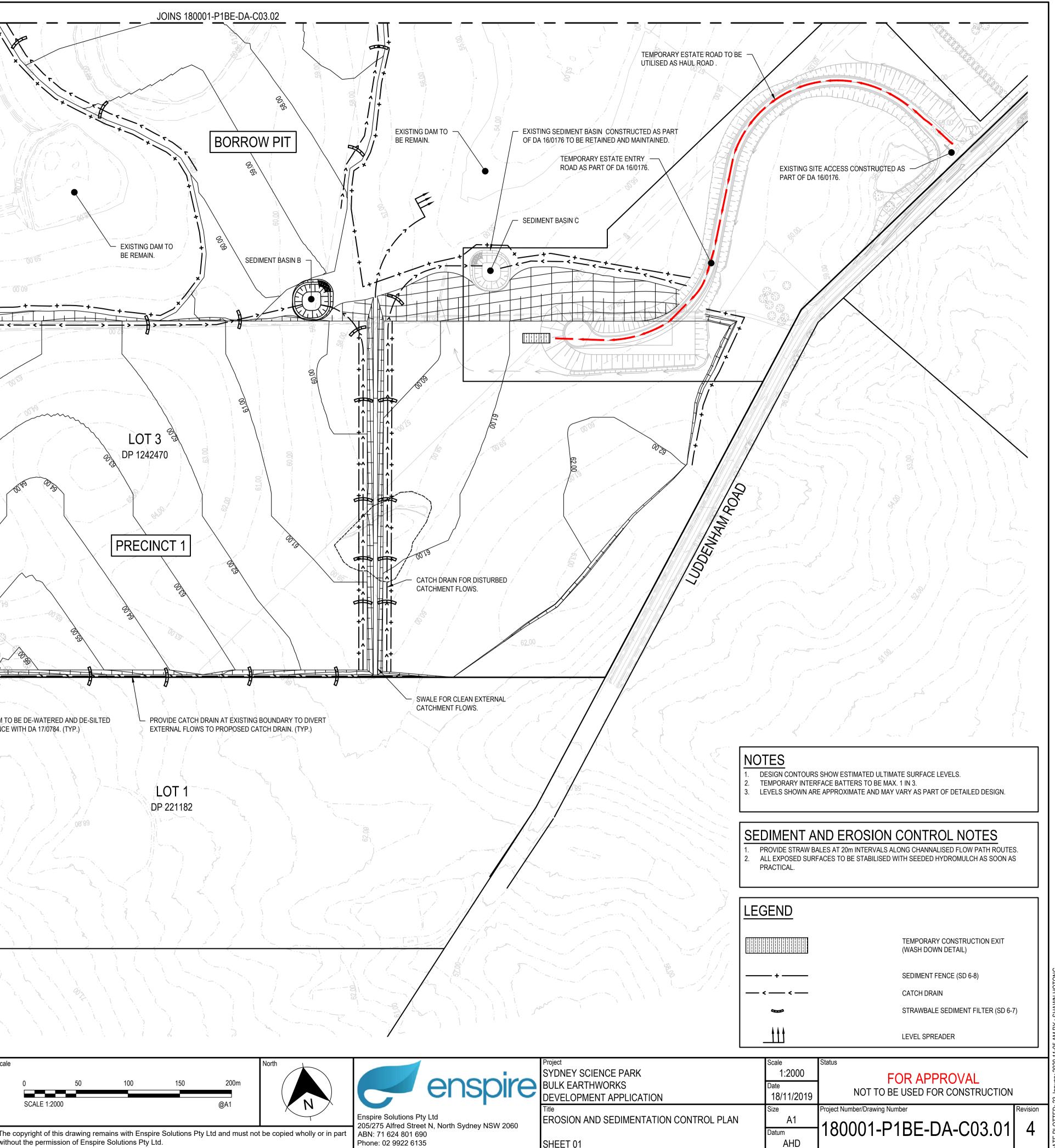


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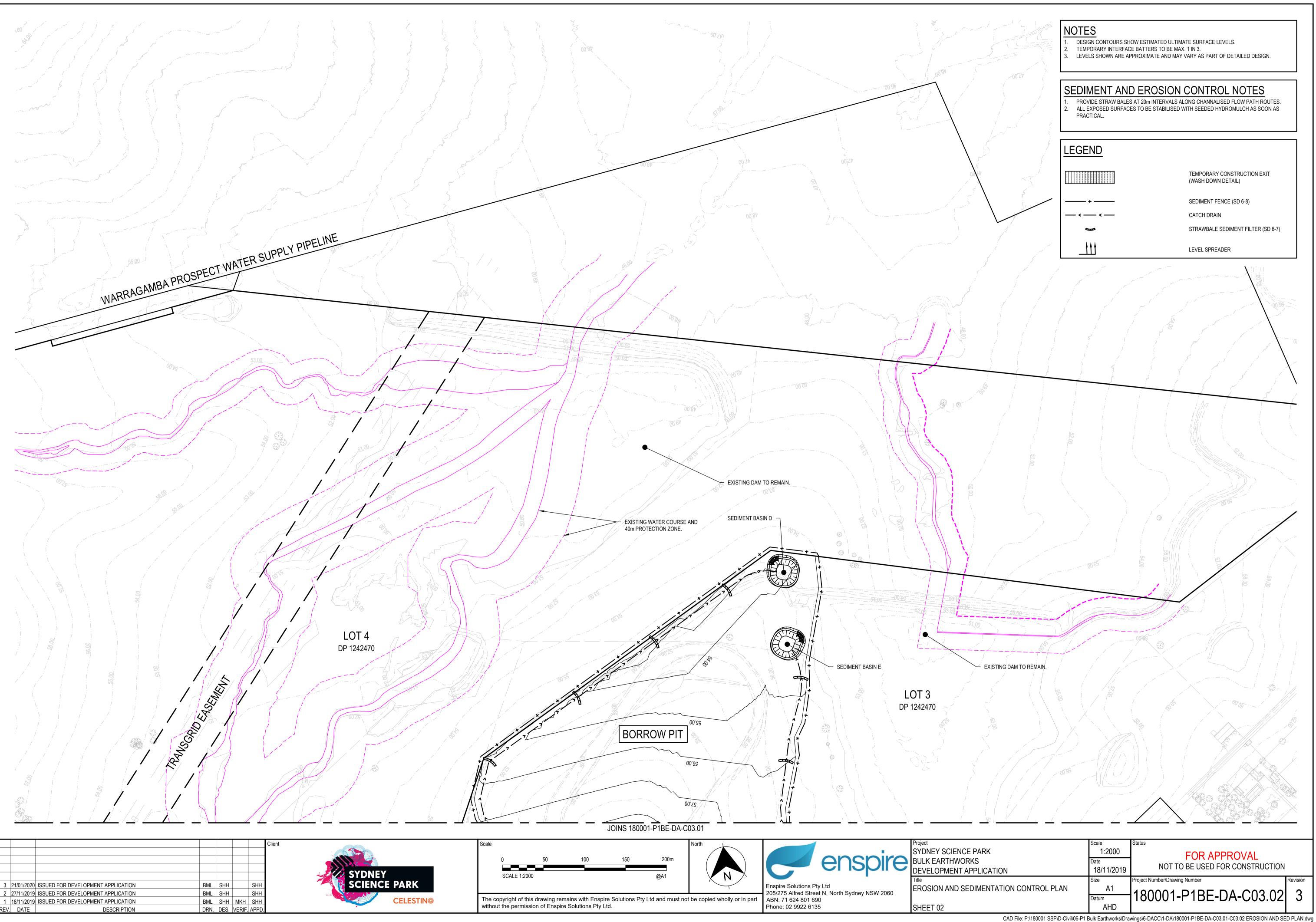
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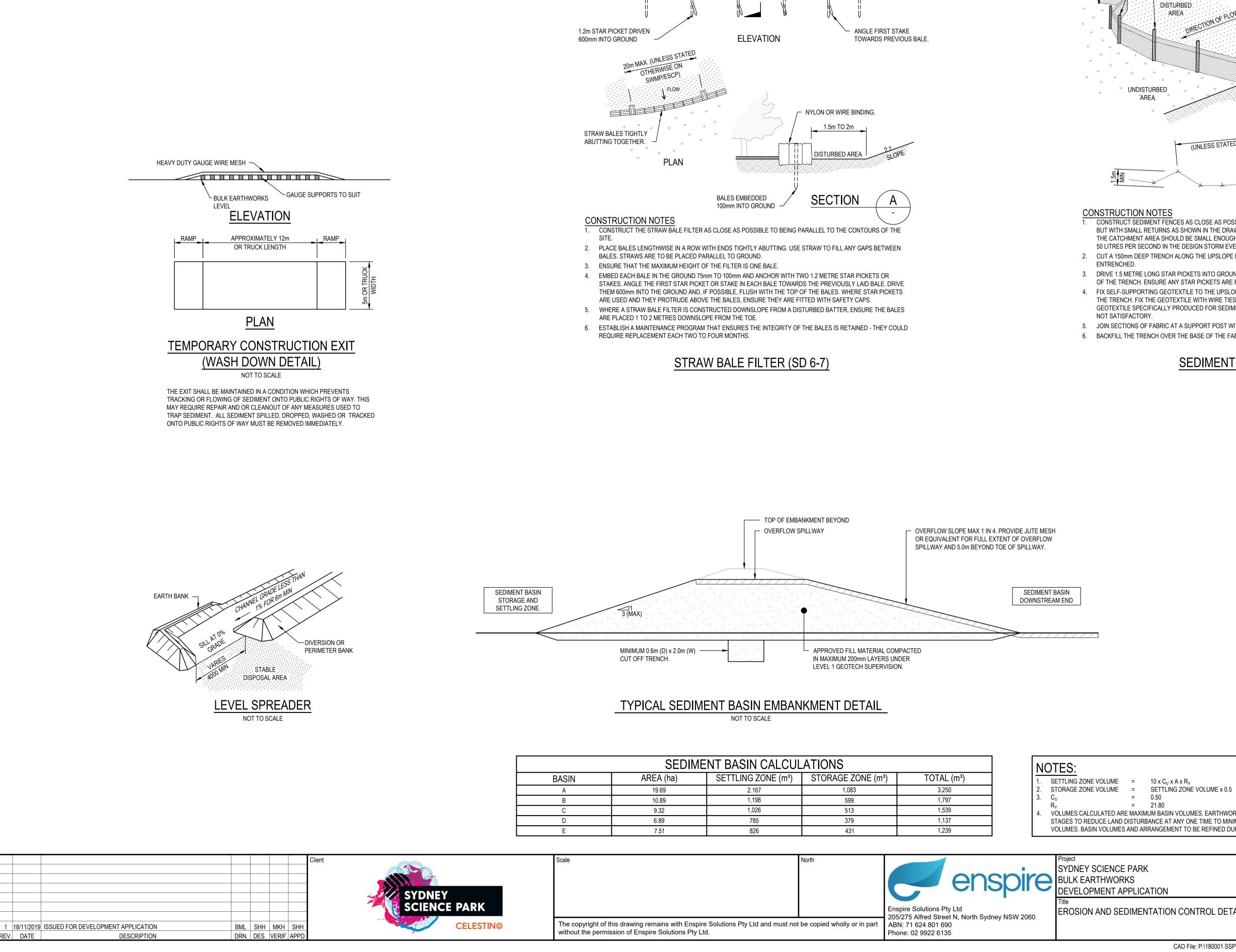
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# - 1.5m STAR PICKETS AT MAX 2.5m CENTRES

PLAN
TES TENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, RNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. A SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO D IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
ENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE
S STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE RE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS. GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE ALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS
BRIC AT A SUPPORT POST WITH A 150mm OVERLAP. OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.
SEDIMENT FENCE (SD 6-8)

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✓ 1.5m STAR PICKETS AT

MAX 2.5m CENTRES

SELF-SUPPORTING GEOTEXTILE

DIRECTION OF FLOW

ON SOIL, 150mmx100mm TRENCH WITH COMPACTED

BACKFILL AND ON ROCK, SET

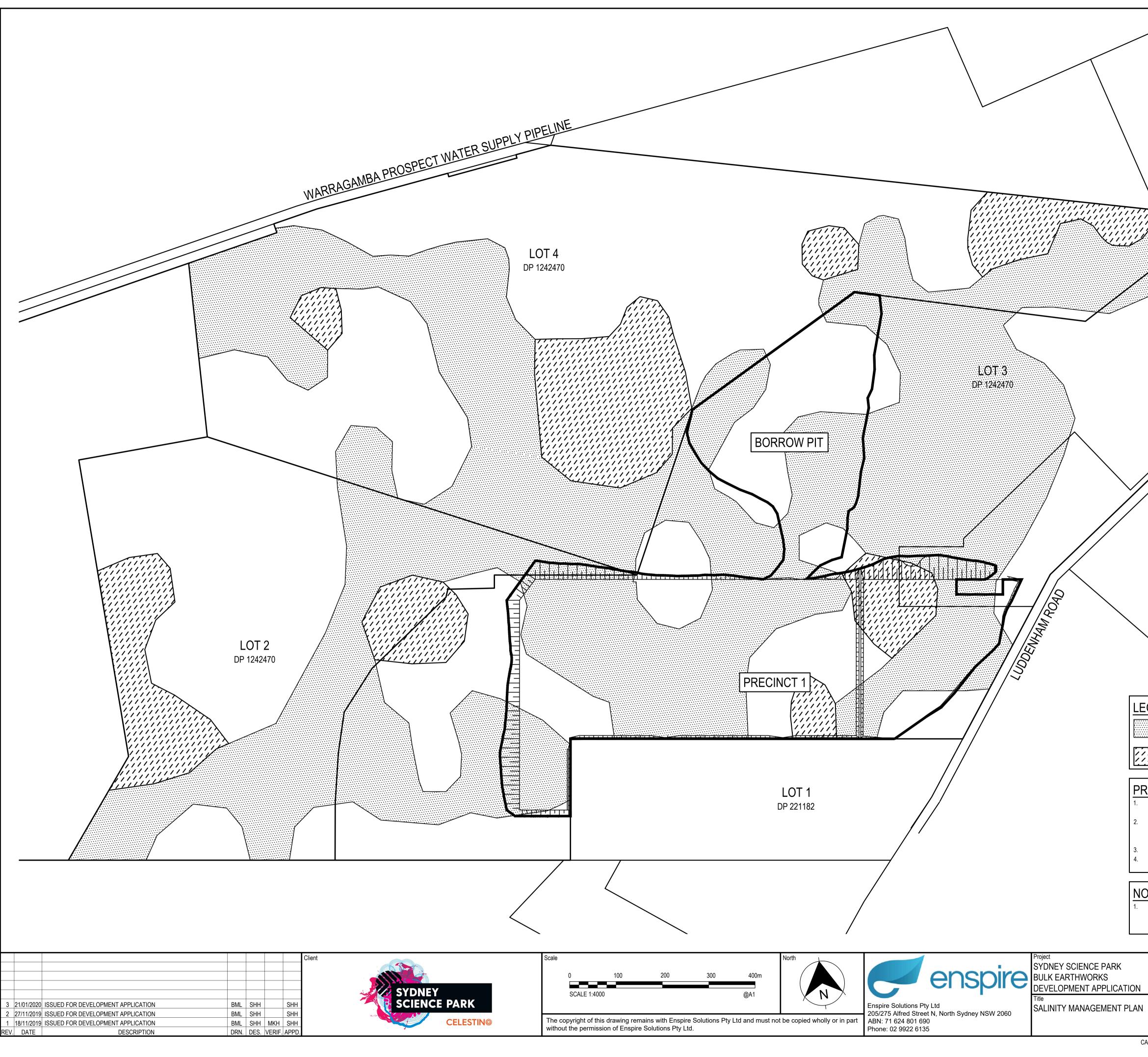
STAR PICKETS AT MAX 2.5m CENTRES

INTO SURFACE CONCRETE.

SECTION DETAIL

20m MAX (UNLESS STATED OTHERWISE ON SWMP/ESCP)

FLOW



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ARE NOT AVAILABLE.	TE TO HIGH SALIN	IS TO BE FILLED OR EXPORTED FROM SITE IF SUCH CONDITIONS
IOTES: SALINITY BOUNDARIES ARE MANAGEMENT REPORT, GI		ASED ON GEOTECHNICAL INVESTIGATION AND SALINITY FEBRUARY 2016.
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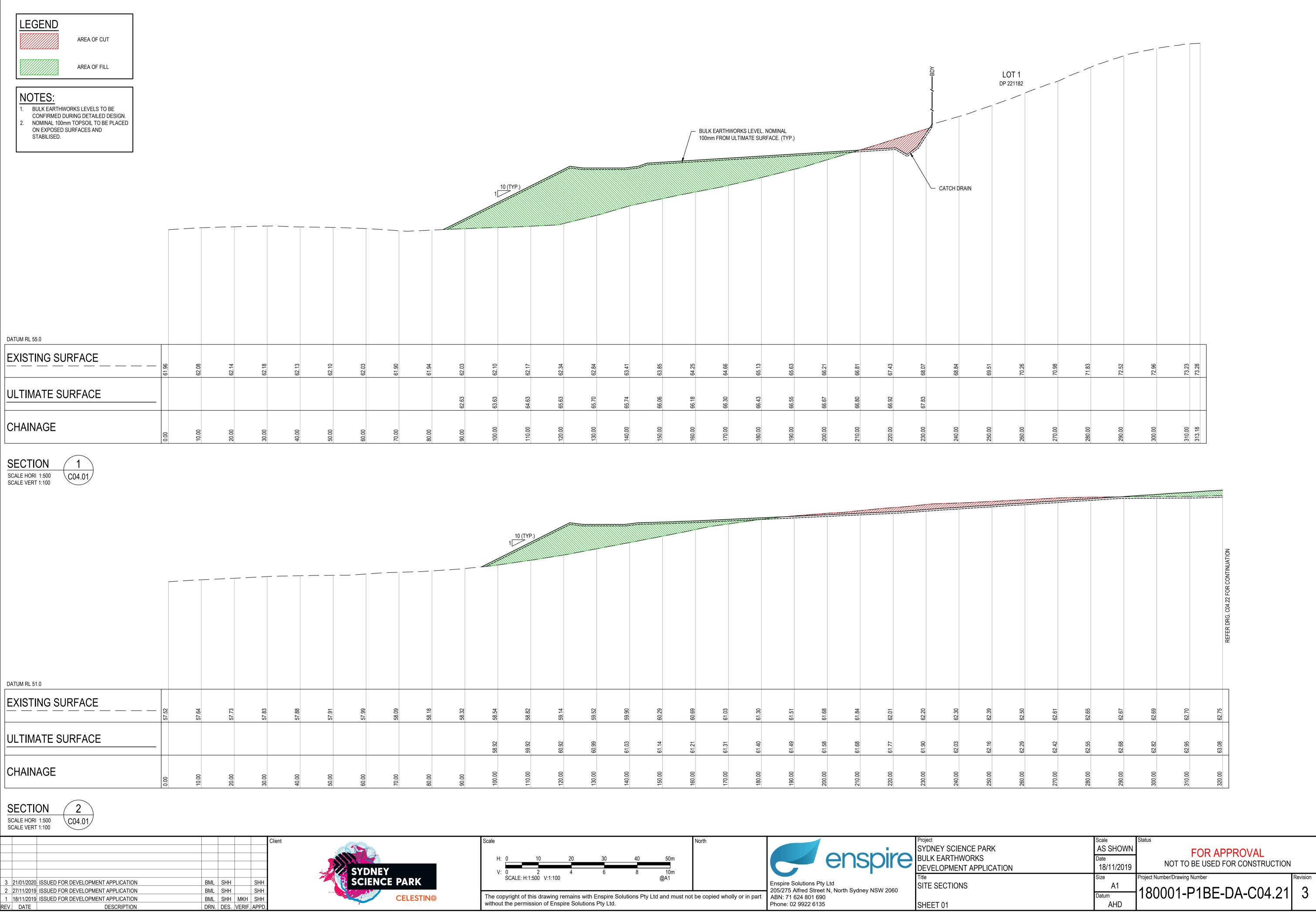
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1 18/11/2019 ISSUED FOR DEVELOPMENT APPLICATION

DESCRIPTION

REV. DATE

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58.54	58.82	59.14	59.52	59.90	60.29	60.69	61.03	61.30	61.51	61.68	61.84	62.01	62.20	62.30	62.39	
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58.92	59.92	60.92	60.99	61.03	61.14	61.21	61.31	61.40	61.49	61.58	61.68	61.77	61.90	62.03	62.16	
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100.00	110.00	120.00	130.00	140.00	150.00	160.00	170.00	180.00	190.00	200.00	210.00	220.00	230.00	240.00	250.00	í
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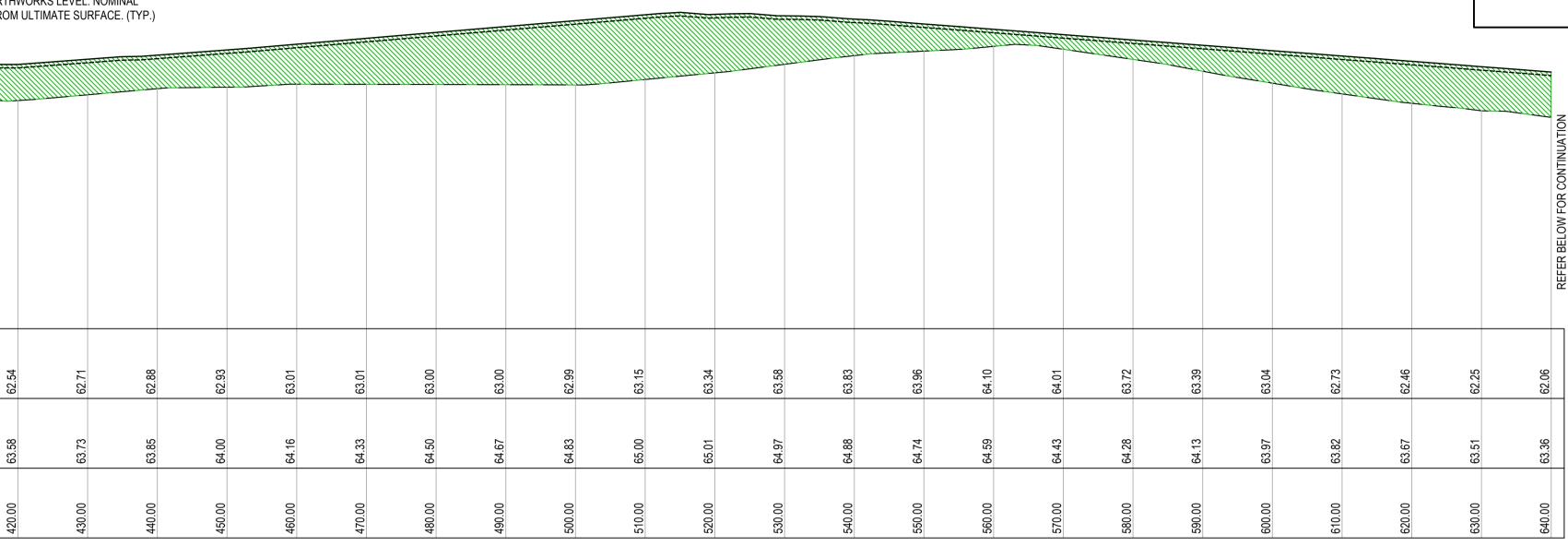
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Scale N	lorth		Project	Scale	Status	
			SYDNEY SCIENCE PARK	AS SHOWN	FOR APPROVAL	
H: 0 10 20 30 40 50m		anchira	BULK EARTHWORKS	Date		
V: 0 2 4 6 8 10m			DEVELOPMENT APPLICATION	18/11/2019	NOT TO BE USED FOR CONSTRUCTION	
SCALE: H:1:500 V:1:100 @A1			Title	Size	Project Number/Drawing Number	Revision
		Enspire Solutions Pty Ltd 205/275 Alfred Street N, North Sydney NSW 2060	SITE SECTIONS	A1		2
The copyright of this drawing remains with Enspire Solutions Pty Ltd and must not be		ABN: 71 624 801 690		Datum	180001-P1BE-DA-C04.21	<b>S</b>
without the permission of Enspire Solutions Pty Ltd.		Phone: 02 9922 6135	SHEET 01	AHD		

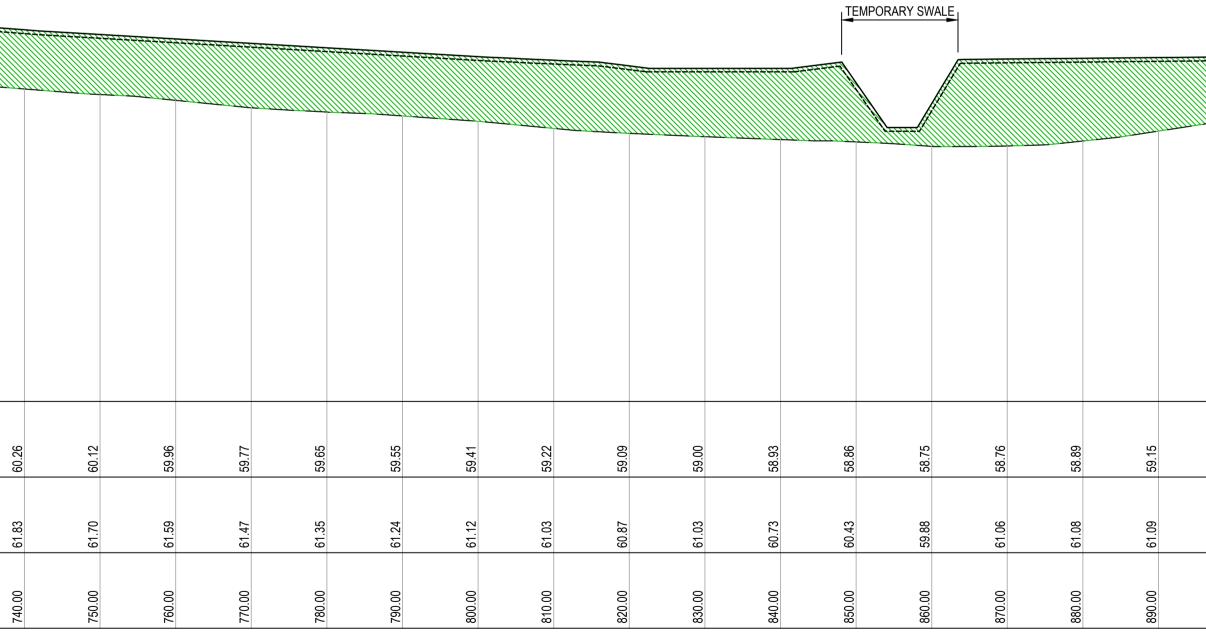
						***	****	<del>4444444444</del>	<del>474477777</del> 7		100mm FRO
DATUM RL 56.0	REFER DRG. C04.21 FOR CONTINUATION										
		32	94	8	21	27	88	13		74	
ULTIMATE SURFACE	63.08	63.21 62.82	63.34 62.94	63.47 63.08	63.60 63.21	63.62 63.27		63.61			63 58 62 54
CHAINAGE	320.00 6	330.00	340.00	350.00	360.00	370.00	380.00	390.00			420.00
SECTION SCALE HORI 1:500 SCALE VERT 1:100	32										
SECTION 2 SCALE HORI 1:500 C04.01											
SECTION 2 SCALE HORI 1:500 C04.01	62.06 REFER ABOVE FOR CONTINUATION	61.82	61.58	61.36	61.18	61.03	60.36	60.62	60.54	60.40	
SECTION       2         SCALE HORI 1:500       CO4.01	REFER ABOVE FOR CONTINUATION		63.05	62.90	62.75	62.59		62.29			60 60 60 73 81



2

							Client Scal
							SYDNEY
							SCIENCE PARK
	2	21/01/2020	ISSUED FOR DEVELOPMENT APPLICATION	BML	SHH	SHH	
	1	18/11/2019	ISSUED FOR DEVELOPMENT APPLICATION	BML	SHH N	IKH SHH	
F	REV.	DATE	DESCRIPTION	DRN.	DES. VE	RIF. APPD.	wit





Ale H: 0 10 20 30 40 50m V: 0 2 4 6 8 10m SCALE: H:1:500 V:1:100 @A1		enspire	Project SYDNEY SCIENCE PARK BULK EARTHWORKS DEVELOPMENT APPLICATION Title SITE SECTIONS
ne copyright of this drawing remains with Enspire Solutions Pty Ltd and must not ithout the permission of Enspire Solutions Pty Ltd.	be copied wholly or in part	ABN: 71 624 801 690	SHEET 02

ARTHWORKS LEVEL. NOMINAL FROM ULTIMATE SURFACE. (TYP.)

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# NOTES:

- BULK EARTHWORKS LEVELS TO BE CONFIRMED DURING DETAILED DESIGN.
   NOMINAL 100mm TOPSOIL TO BE PLACED ON EXPOSED SURFACES AND STABILISED.

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59.45	59.75	60.07	60.37	60.66	60.92	61.18	
61.11	61.13	61.15	61.20	61.24	61.32	61.39	
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1	Scale AS SHOWN Date 18/11/2019	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION		21. January 2020
	Size A1 Datum AHD	Project Number/Drawing Number 180001-P1BE-DA-C04.22	Revision 2	DATE PLOTTED: 3

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	2										
	REFER DRG. C04.22 FOR CONTINUATION										
DATUM RL 52.0											
EXISTING SURFACE	61.18	61.46	61.75	62.02	62.28	62.54	62.75	62 95	63.08	63.20	
ULTIMATE SURFACE	61.39	61.47					ŝ				
CHAINAGE	960.00	00.076		00.066	1000.00	1010.00	1020.00	1030.00	1040.00	1050 00	

SECTION SCALE HORI 1:500 SCALE VERT 1:100

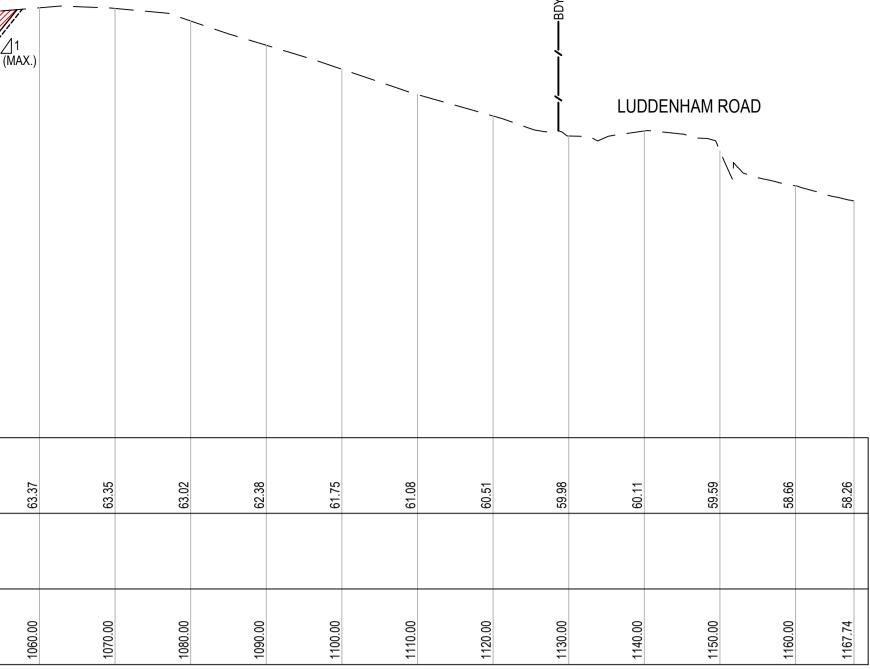
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									1244444444							ULTIMATE SURFA	JE. (TYP.)											
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		65.71		65.47 65.47	65.47	65.59	65.83	66.11	00.24 66.15	66.07	65.98	65.87	65.74	65.60 65.43	65.27	65.11	64.94 64.77	64.65	64.38	64.15	63.95	63.72	63.48	63.26	63.02	62.76	62.49	62.21
XISTING SURFACE	65.96	65.71		65.47	65.47	65.59	65.83	66.11	00.24 0 66.15	0 66.07	65.98	0 65.87	3 65.74	7 65.60 65.43 65.43	3 65.27	7 65.11	64.94 64.77	2 64.65	4 64.38	3 64.15	7 63.95	9 63.72	63.48	3 63.26	63.02	3 62.76	62.49	62.21
XISTING SURFACE	65.96	65.71	L C L C	60.60 65.47	65.47	65.59	65.83	66.59 66.11	67.50 66.15	67.30 66.07	67.10 65.98	66.90 65.87	66.73 65.74	66.57 65.60 66.40 65.43	66.23 65.27	66.07 65.11	65.89 64.94 65.63 64.77	65.42 64.65	64.94 64.38	64.73 64.15	64.77 63.95	64.59 63.72	64.22 63.48	63.73 63.26	63.35 63.02	63.03 62.76	62.70 62.49	62.37 62.21
TUM RL 55.0   XISTING SURFACE   LTIMATE SURFACE   HAINAGE	0.00 66.79	0.00		66.60 74.60 00.0	0.00 65.47	0.00			0.00 67.50 66.15	10.00 67.30 66.07	20.00 67.10 65.98	30.00 66.90 65.87	40.00 66.73 65.74	50.00 66.57 65.60 65.60 65.43 60.00 66.40 65.43	0	80.00 66.07 65.11	90.00 65.89 64.94 00.00 65.63 64.77	0	20.00 64.94 64.38	30.00 64.73 64.15	0.00 64.77 63.95	250.00 64.59 63.72	60.00 64.22 63.48	0.00 63.73 63.26	0	90.00 63.03 62.76		10.00 62.37 62.21

SECTION

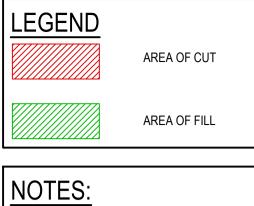
3 SCALE HORI 1:500 SCALE VERT 1:100

					Client	Scale
					SYDNEY	
	3 21/01/2020 ISSUED FOR DEVELOPMENT APPLICATION	BML SHH		SHH	SCIENCE PARK	
	2 27/11/2019 ISSUED FOR DEVELOPMENT APPLICATION	BML SHH		SHH		
_	1 18/11/2019 ISSUED FOR DEVELOPMENT APPLICATION	BML SHH	MKH	SHH	CELESTINO	The
RE	EV. DATE DESCRIPTION	DRN. DES.	VERIF.	APPD.		with



BULK EARTHWORKS LEVEL. NOMINAL 100mm FROM ULTIMATE SURFACE. (TYP.)

Scale H: 0 10 20 30 40 50m V: 0 2 4 6 8 10m SCALE: H:1:500 V:1:100 @A1		enspire	Project SYDNEY SCIENCE PARK BULK EARTHWORKS DEVELOPMENT APPLICATION Title SITE SECTIONS
The copyright of this drawing remains with Enspire Solutions Pty Ltd and must not without the permission of Enspire Solutions Pty Ltd.	t be copied wholly or in part	ABN: 71 624 801 690	SHEET 03



- BULK EARTHWORKS LEVELS TO BE CONFIRMED DURING DETAILED DESIGN.
   NOMINAL 100mm TOPSOIL TO BE PLACED ON EXPOSED SURFACES AND STABILISED.

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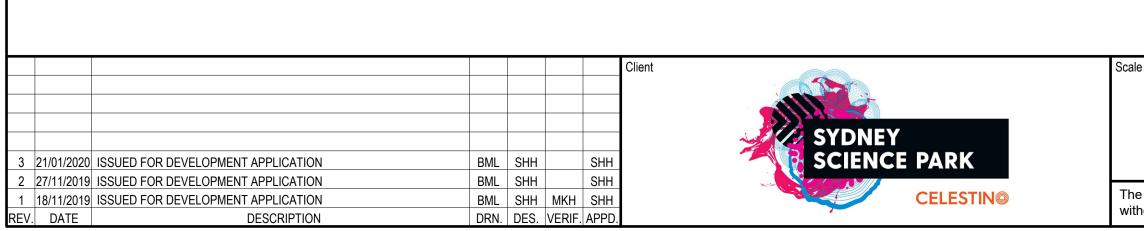
	Scale AS SHOWN Date	Status FOR APPROVAL		January 2020
N	18/11/2019	NOT TO BE USED FOR CONSTRUCTION		21. IS
	Size	Project Number/Drawing Number	Revision	Ė
	A1		3	ЦС
	Datum AHD	180001-P1BE-DA-C04.23	3	TF PI
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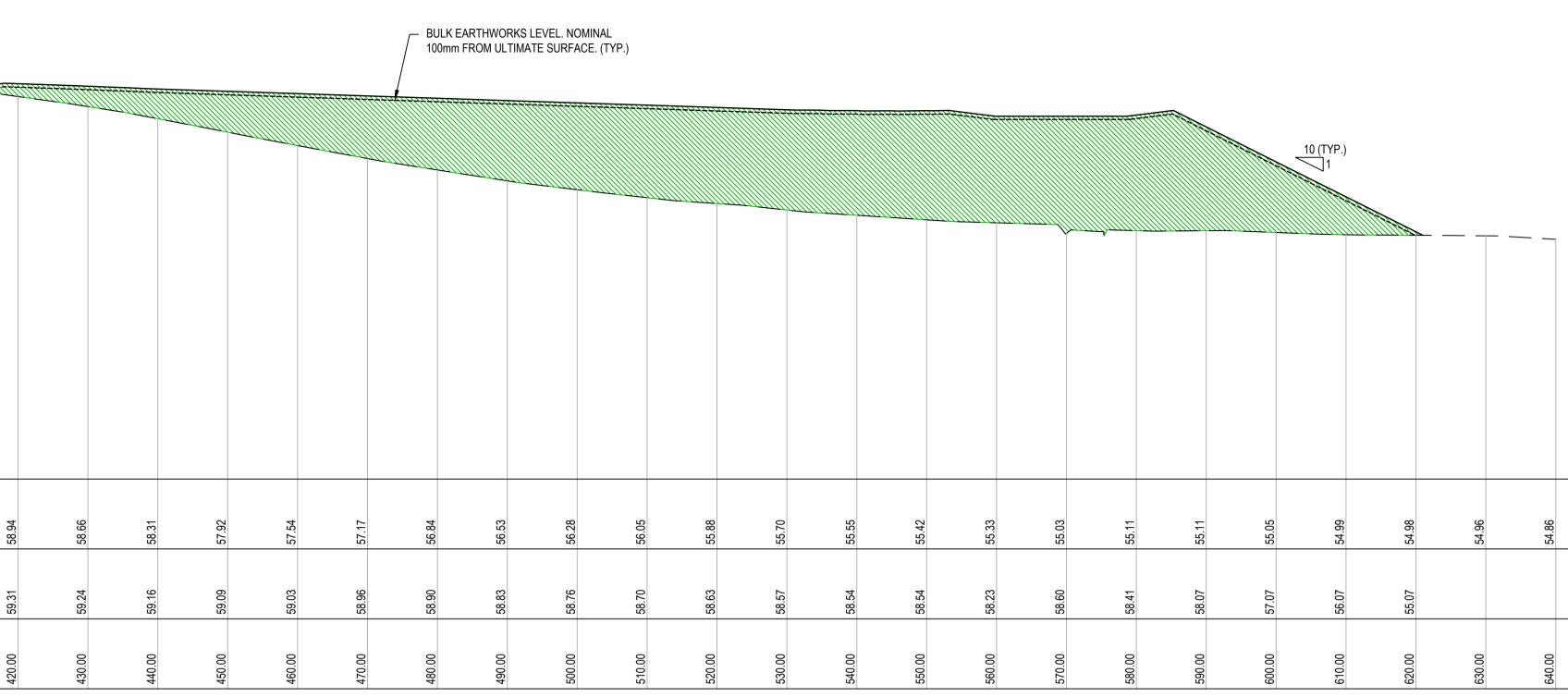
	REFER DRG. C04.23 FOR CONTINUATION										
DATUM RL 48.0											
EXISTING SURFACE	61.96	61.67	61.42	61.17	60.86	60.54	60.22	59.91	59.56	59.24	58 D4
ULTIMATE SURFACE	62.04	61.71	61.38	61.05	60.72	60.39	60.03	59.64	59.26	59.21	
CHAINAGE	320.00	330.00	340.00								

SECTION

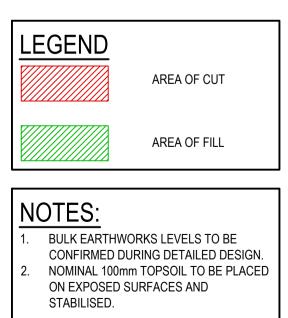
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SCALE HORI 1:500 SCALE VERT 1:100





H: 0 10 20 30 40 50m V: 0 2 4 6 8 10m SCALE: H:1:500 V:1:100 @A1	North	Enspire Solutions Pty Ltd	Project SYDNEY SCIENCE PARK BULK EARTHWORKS DEVELOPMENT APPLICATION Title SITE SECTIONS
ne copyright of this drawing remains with Enspire Solutions Pty Ltd and must no ithout the permission of Enspire Solutions Pty Ltd.	t be copied wholly or in part	205/275 Alfred Street N, North Sydney NSW 2060 ABN: 71 624 801 690 Phone: 02 9922 6135	SHEET 04



 Scale
 Status

 AS SHOWN
 FOR APPROVAL

 Date
 NOT TO BE USED FOR CONSTRUCTION

 18/11/2019
 Project Number/Drawing Number

 Size
 Project Number/Drawing Number

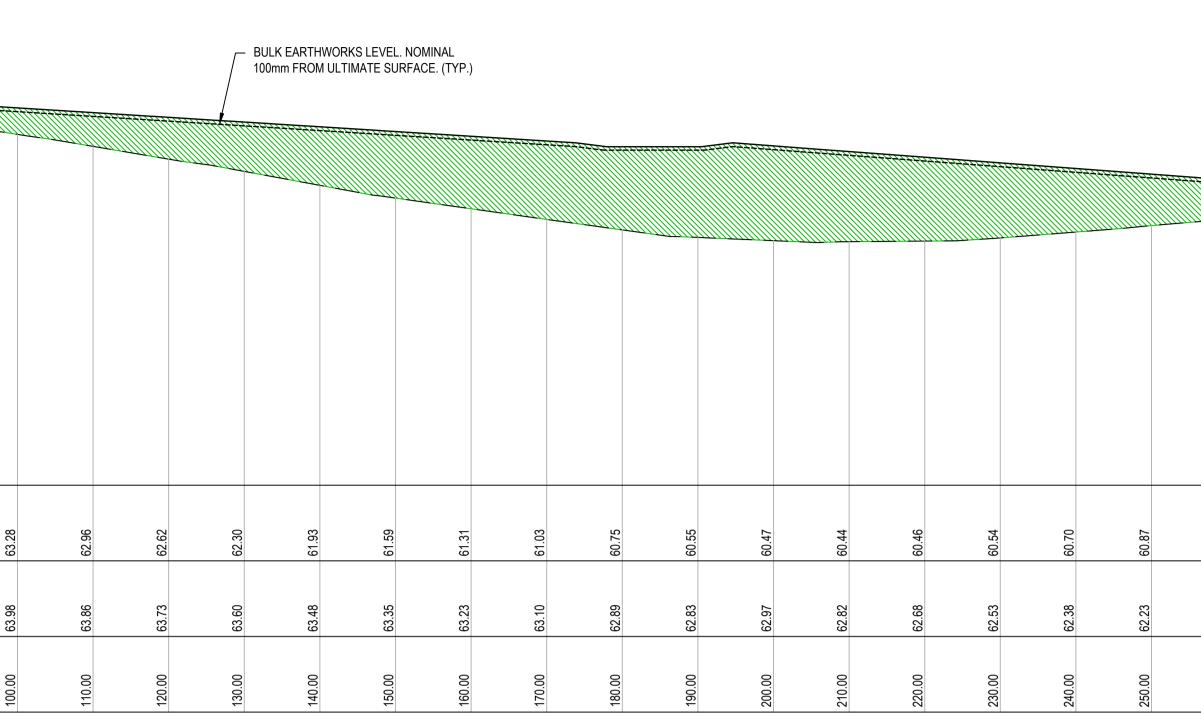
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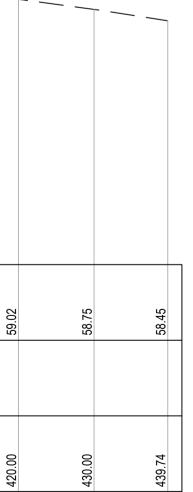
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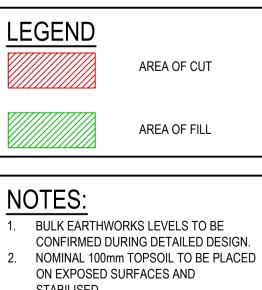
CAD File: P:\180001 SSP\D-Civil\06-P1 Bulk Earthworks\Drawings\6-DACC\1-DA\180001-P1BE-DA-C04.21-C04.28 SITE SECTIONS.dwg

DCTTED: 21 January 2020 12:11 PM BY : SHAWN HO

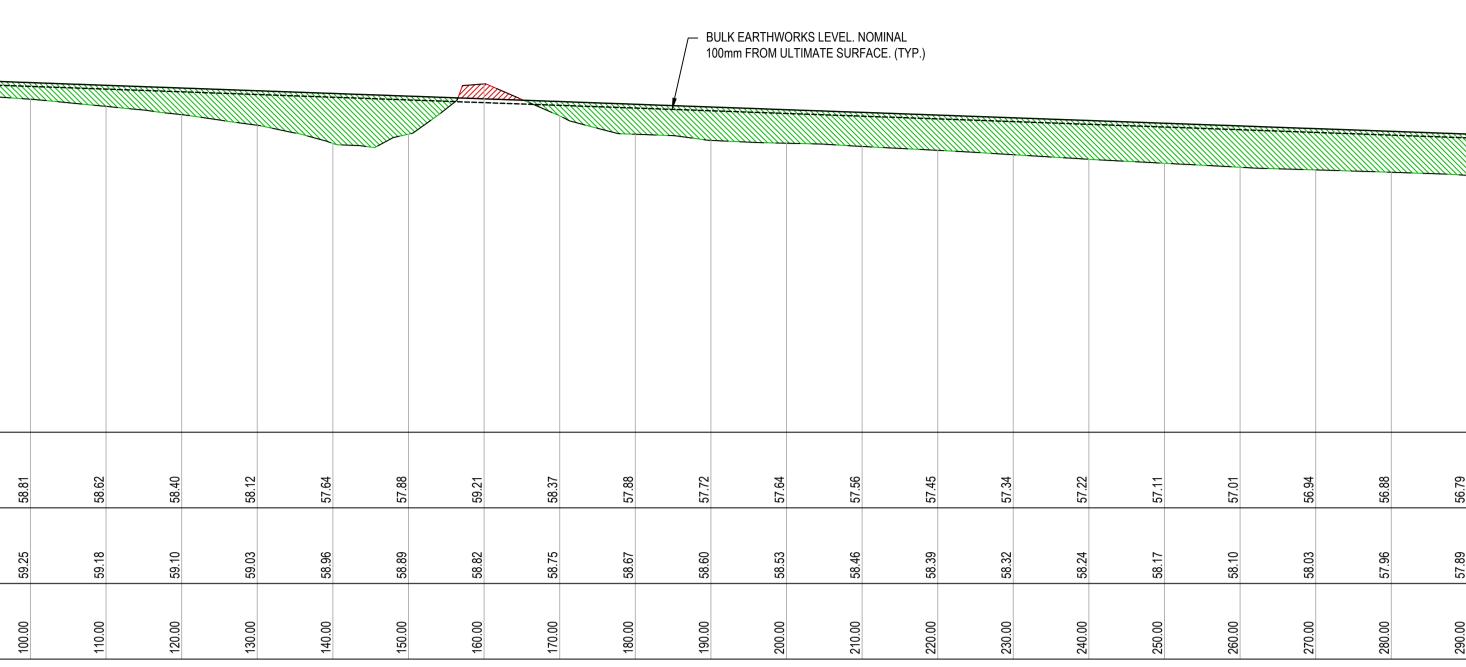
	LOT 1 DP 221182		*****		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						/ BULK EARTHWO	ORKS LEVEL. NOMINA	AL													
											100mm FROM UI	LTIMATE SURFACE. (1	(TYP.)										1111111111111		<u></u>	
																									FER BELOW FOR CONTINUATION	
RL 54.0	_																									
STING SURFACE	66.12 65.51	65.27	65.39	65.40	65.42	65.45 63.92	63.59	63.28	62.96	62.62	62.30 61.93	61.59	61.31 61.03	60.75	60.55 60.47	60.44	60.46	60.54	60.70 60 87	61.04	61.16	61.24	61.28	61.27	61.22 61.13	
TIMATE SURFACE		54.98	34.73	34.61	54.48	64.36 54.23	34.11	33.98	53.86	53.73	63.60 33.48	33.35	63.23 33.10	32.89	62.83 12.97	62.82	32.68	62.53	62.38 23 23	2	31.93	51.78	31.63	51.48	61.33 51.18	
AINAGE	000.00	0.00	0000	00.00	0.00	0.00	0.00	00.00 f	10.00 6	20.00	30.00 t 40.00 6	20.00	60.00 6	80.00	90.00 t	10.00	20.00 6	30.00	40.00 (	30.00	70.00	80.00	90.00	00.00	20.00	
IORI 1:500 ERT 1:100																										
DRI 1:500 ERT 1:100	REFER ABOVE FOR CONTINUATION			10 (TYP.) 1																						
CO4.01 ERT 1:100	REFER ABOVE FOR CONTINUATION																									
IORI 1:500 ERT 1:100	61.13 REFER ABOVE FOR CONTINUATION 60.99 BOUT BOUT BOUT BOUT BOUT BOUT BOUT BOUT	60.82 60.85	90.35		60.03	59.58	59.30	59.02	58.75	58.45															LEGEND	AREA OF CUT
4         HORI 1:500         VERT 1:100         CO4.01	61.18         EFER ABOVE FOR CONTINUATION           61.03         60.99           61.03         60.99	60.85	50.00 60.00		e0.03	59.58 59.58	59.30	59.02	58.75	58.45																AREA OF CUT AREA OF FILL
	320.00         61.18         REFER ABOVE FOR CONTINUATION           330.00         61.03         60.99	340.00 60.85 60.85	360.00 60.35		380.00	330.00 59.81 400.00 59.58	410.00	420.00 59.02	430.00 58.75	439.74 58.45															NOTES:	AREA OF FILL
	320.00         61.13         REFER ABOVE FOR CONTINUATION           330.00         61.03         60.99	340.00 60.85 60.85			380.00	390.00 59.81 400.00 59.58	410.00	420.00	430.00 58.75	439.74 58.45															NOTES: 1. BULK EARTHV CONFIRMED D 2. NOMINAL 1007	AREA OF FILL WORKS LEVELS TO BE DURING DETAILED DESIGN mm TOPSOIL TO BE PLACE SURFACES AND
CO4.01 ZERT 1:100 CO4.01 ZERT 1:100 RL 52.0 STING SURFACE IMATE SURFACE IMATE SURFACE INAGE	320.00       61.13       REFER ABOVE FOR CONTINUATION         320.00       61.13       61.13         330.00       61.03       60.99	340.00 60.85 60.85	Client	370.00		390.000 59.81 400.000 59.58	410.00	Scale H: 0 V: 0		20	30 4 6 8 with Enspire Solutions tions Pty Ltd.	0 50m 8 10m @A1	North	Fnsni		Ensi	oire	Project SYDNEY BULK EA DEVELOI Title SITE SEC		RK		Date	SHOWN /11/2019	Project Number/Drav	NOTES: 1. BULK EARTHV CONFIRMED D 2. NOMINAL 100r ON EXPOSED STABILISED. STABILISED TO BE USED FOR wing Number	AREA OF FILL WORKS LEVELS TO BE DURING DETAILED DESIGI mm TOPSOIL TO BE PLACI SURFACES AND

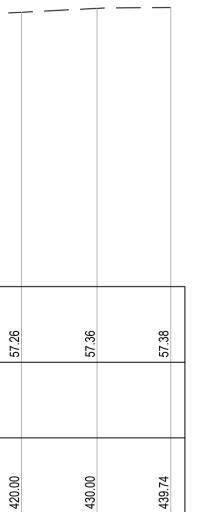






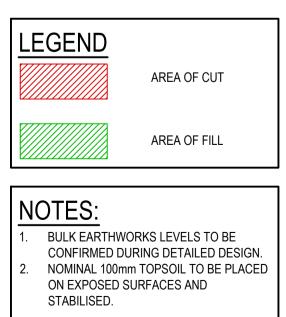
	LOT 1 DP 221182										
		- <u>L</u>				<u>777777777777777777777777777777777777</u>				<u></u>	
DATUM RL 50.0											
EXISTING SURFACE	60.10	59.92	59.71	59.52	59.40	59.29	59.20	59.13	59.04	58.94	58.81
ULTIMATE SURFACE		29.89	59.82	59.75	28.08	59.61	59.53	59.46	59.39	59.32	59.25
CHAINAGE	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	00.06	100.00
	REFER ABOVE FOR CONTINUATION										
DATUM RL 50.0											
		56.84	56.97	27.01	57.17	57.23	57.21	57.18	57.16	57.16	57.26
	REFER ABOVE FOR CONTINUATION						57.21	57.18	57.16	57.16	57.26
EXISTING SURFACE	1       1       56.77       REFER ABOVE FOR CONTINUATION	56.84	56.97	57.01	57.17	57.23	380.00	390.00	400.00 57.16	410.00 57.16	420.00 57.26
EXISTING SURFACE	57.67 56.77 REFER ABOVE FOR CONTINUATION	57.60 56.84	57.53 56.97	57.46 57.01	57.38 57.17	57.31 57.23					
EXISTING SURFACE ULTIMATE SURFACE CHAINAGE SECTION 5 SCALE HORI 1:500 5 C04.01	57.67 56.77 REFER ABOVE FOR CONTINUATION	57.60 56.84	57.53 56.97	57.46 57.01	360.00 57.38 57.17	57.31 57.23					
EXISTING SURFACE ULTIMATE SURFACE CHAINAGE SECTION 5 SCALE HORI 1:500 5 C04.01	57.67 56.77 REFER ABOVE FOR CONTINUATION	57.60 56.84	57.53 56.97	350.00 57.46 57.01	360.00 57.38 57.17	57.31 57.23	380.00		400.00		420.00



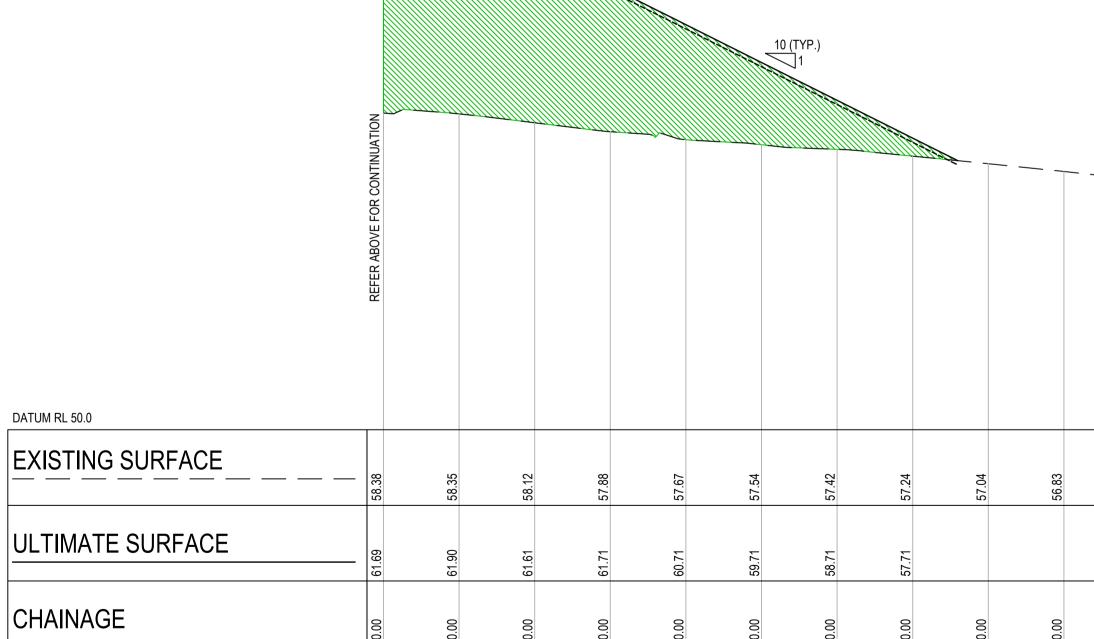


Ale North	enspire	Project SYDNEY SCIENCE PARK BULK EARTHWORKS DEVELOPMENT APPLICATION	Scale AS SHOWN Date 18/11/2019	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	
ne copyright of this drawing remains with Enspire Solutions Pty Ltd and must not be copied wholly or in part	ABN: 71 624 801 690	Title SITE SECTIONS SHEET 06	Size A1 Datum AHD	Project Number/Drawing Number 180001-P1BE-DA-C04.26	2

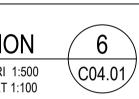
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							REFER BELOW FOR CONTINUATION
57.01	56.94	56.88	56.79	56.71	56.74	56.77	
58.10	58.03	57.96	57.89	57.81	57.74	57.67	
260.00	270.00	280.00	290.00	300.00	310.00	320.00	

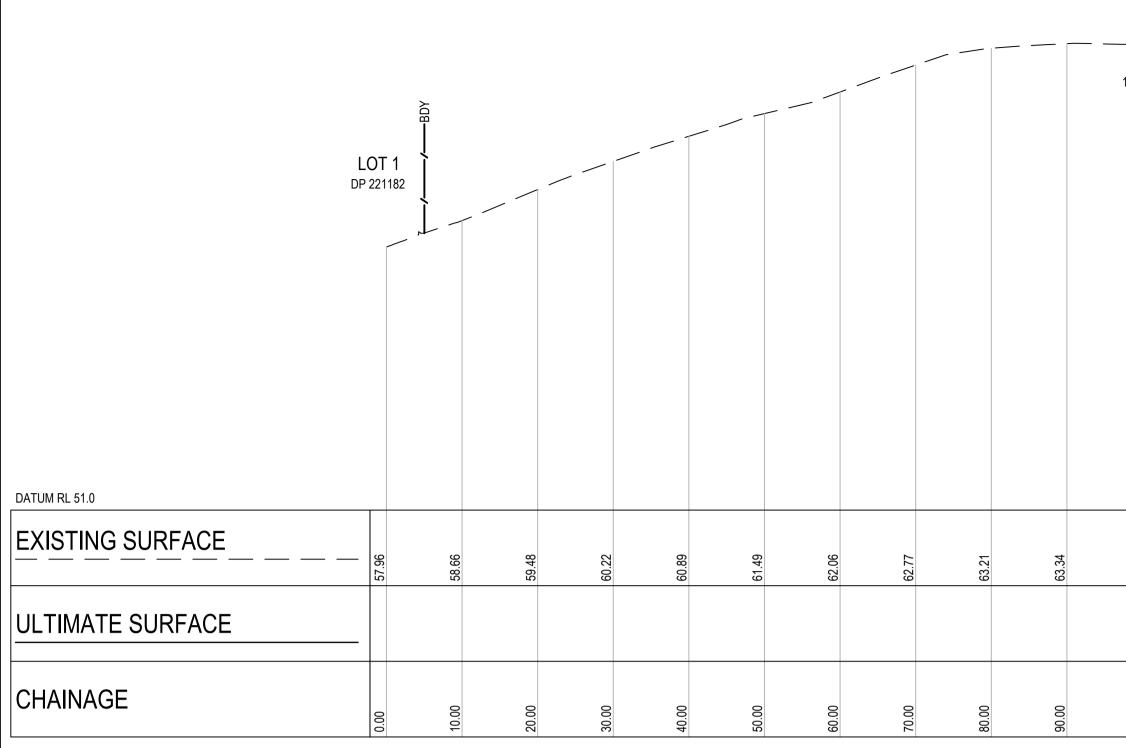


ULTIM	IATE SURFACE	61.69	61.90	61.61		61.71	Ĩ	60.71	59.71	58.71		57.71		
CHAIN	NAGE	320.00	330.00	340.00		350.00		360.00	370.00	380.00		390.00	410.00	-
SECT SCALE HOP SCALE VER	RI 1:500 C04.01													
							Client			SY SC	DNEY IENCE	PARK		
	20       ISSUED FOR DEVELOPMENT APPLICATION         19       ISSUED FOR DEVELOPMENT APPLICATION		BM			SHH SHH			x			CELESTIN		
REV. DATE	DESCRIPTION		DR		VERIF.									

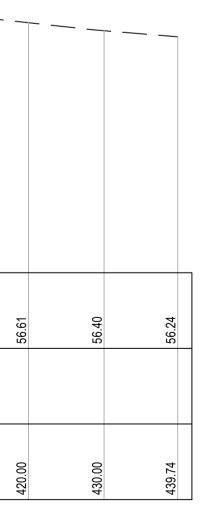




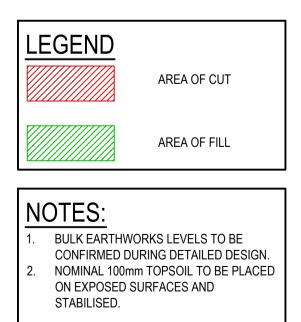




1 3 (MAX														E SURFACE. (T								
63.31	63.26	63.16	63.05	62.88	62.62	62.35	62.05	61.78	61.51	61.21	60.90	60.62	60.39	60.13	2003		60.60	59.48	59.27	59.06	58.84	E0 ED
63.18	61.93	61.97	62.00	62.04	62.11	62.17	62.11	62.16	62.21	62.24	62.27	62.26	62.22	62.13	62.03	5	CC-10	61.85	61.77	61.71	61.67	C1 70
100.00	110.00	120.00	130.00	140.00	150.00	160.00	170.00	180.00	190.00	200.00	210.00	220.00	230.00	240.00	250.00		00.002	7/0.00		290.00	300.00	



Scale H: 0 V: 0 SCALE:	10 2 H:1:500 V:1:10	20 4 0	30 6	40 8	50m 10m @A1	North	Enspire Solutions Pty Ltd	Project SYDNEY SCIENCE PARK BULK EARTHWORKS DEVELOPMENT APPLICATION Title SITE SECTIONS
The copyright on without the per				olutions Pty	Ltd and must no	t be copied wholly or in part	205/275 Alfred Street N, North Sydney NSW 2060 ABN: 71 624 801 690 Phone: 02 9922 6135	SHEET 07



 Scale
 Status

 AS SHOWN
 FOR APPROVAL

 Date
 NOT TO BE USED FOR CONSTRUCTION

 27/11/2019
 Project Number/Drawing Number

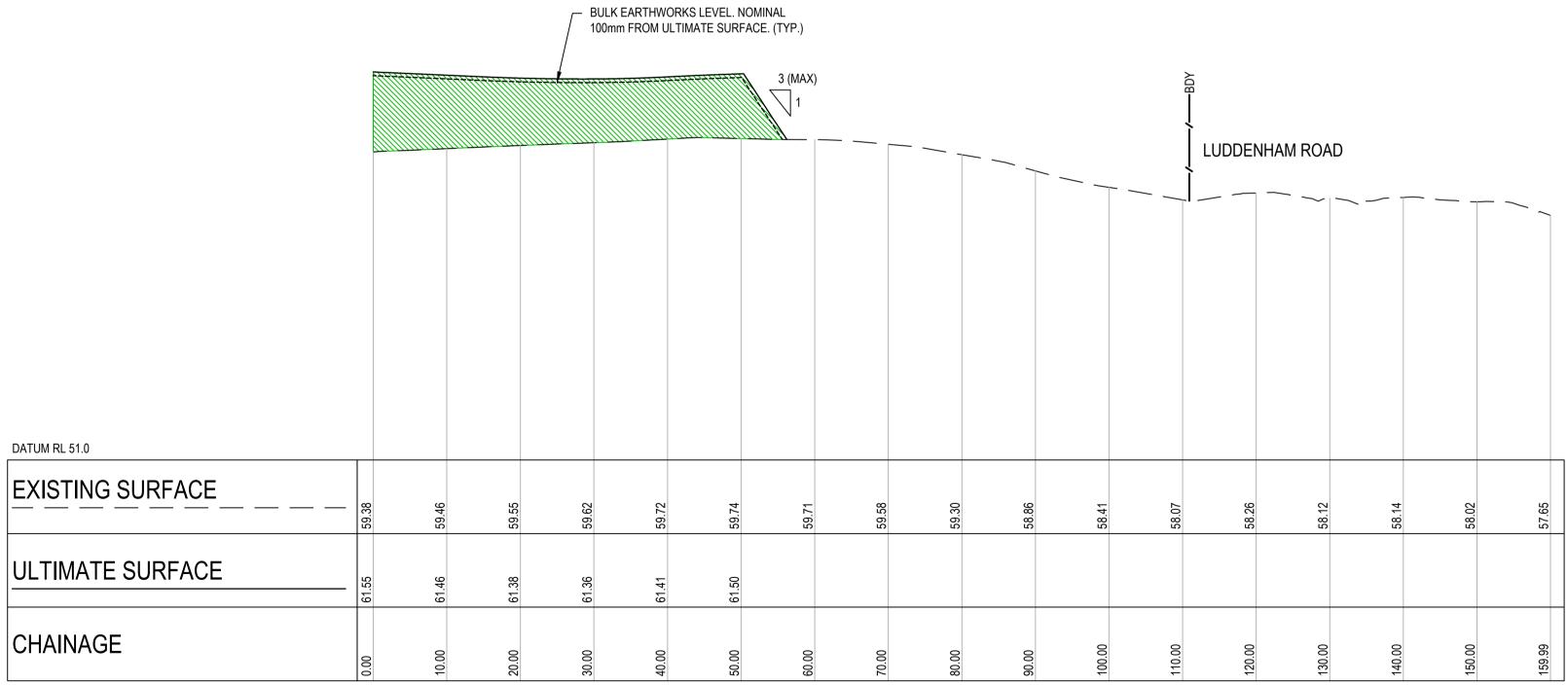
 Size
 Project Number/Drawing Number

 A1
 180001-P1BE-DA-C04.27

 Datum
 AHD

DTTED: 21 January 2020 12:11 PM BY : SHAWN HO

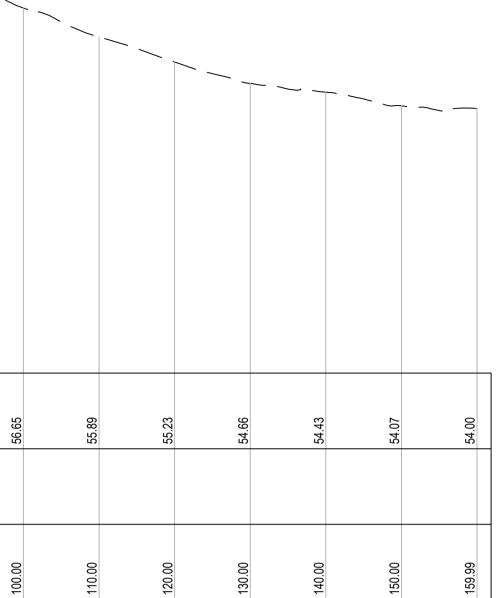
CONFIRMEDURING DETAILEDD SCALE VERT 1:100 CONFIRMEDURING DETAILEDD CONFIRMEDURING CONFIRMEDURING CONFIRMEDURING DETAILEDD CONFIRMEDURING CONFIRMEURING CONF	ILTIMATE SURFACE	61.55	61.46	61.38	61.36 61.41	61.50														AREA OF CUT
Let Horn 1500 CALE VERT 1100 CALE VE	HAINAGE	000	10.00	20.00	30.00 40.00	20.00	60.00	70.00	80.00	00.00	100.00	120.00	130.00	140.00	150.00	159.99				AREA OF FILL
Image: State in the image: State in	ECTION 8 ALE HORI 1:500 ALE VERT 1:100																			<ol> <li>BULK EARTHWORKS LEVELS TO BE CONFIRMED DURING DETAILED DESIGN</li> <li>NOMINAL 100mm TOPSOIL TO BE PLACE ON EXPOSED SURFACES AND</li> </ol>
Science Park       Science Park					Client		SYDNE	V		Scal	e H: 0	10 20	30	40	50m	North	enspire	BULK EARTHWORKS	AS SHOWN Date	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
21/01/2020     ISSUED FOR DEVELOPMENT APPLICATION     BML     SHH     SHH       DATE     DESCRIPTION     DRN.     DES.     VERIF. APPD.	21/01/2020 ISSUED FOR DEVELOPMENT APPLICATION		BML S	SHH SH	  IH		SCIENC	CE PARK		Th	e copyright of t	this drawing remai	o ns with Enspire	ہ e Solutions Pty	0	t not be copied wholly or in part	ABN: 71 624 801 690	Title SITE SECTIONS	A1 Datum	Project Number/Drawing Number 180001-P1BE-DA-C04.28



SECTION
SCALE HORI 1:500 SCALE VERT 1:100

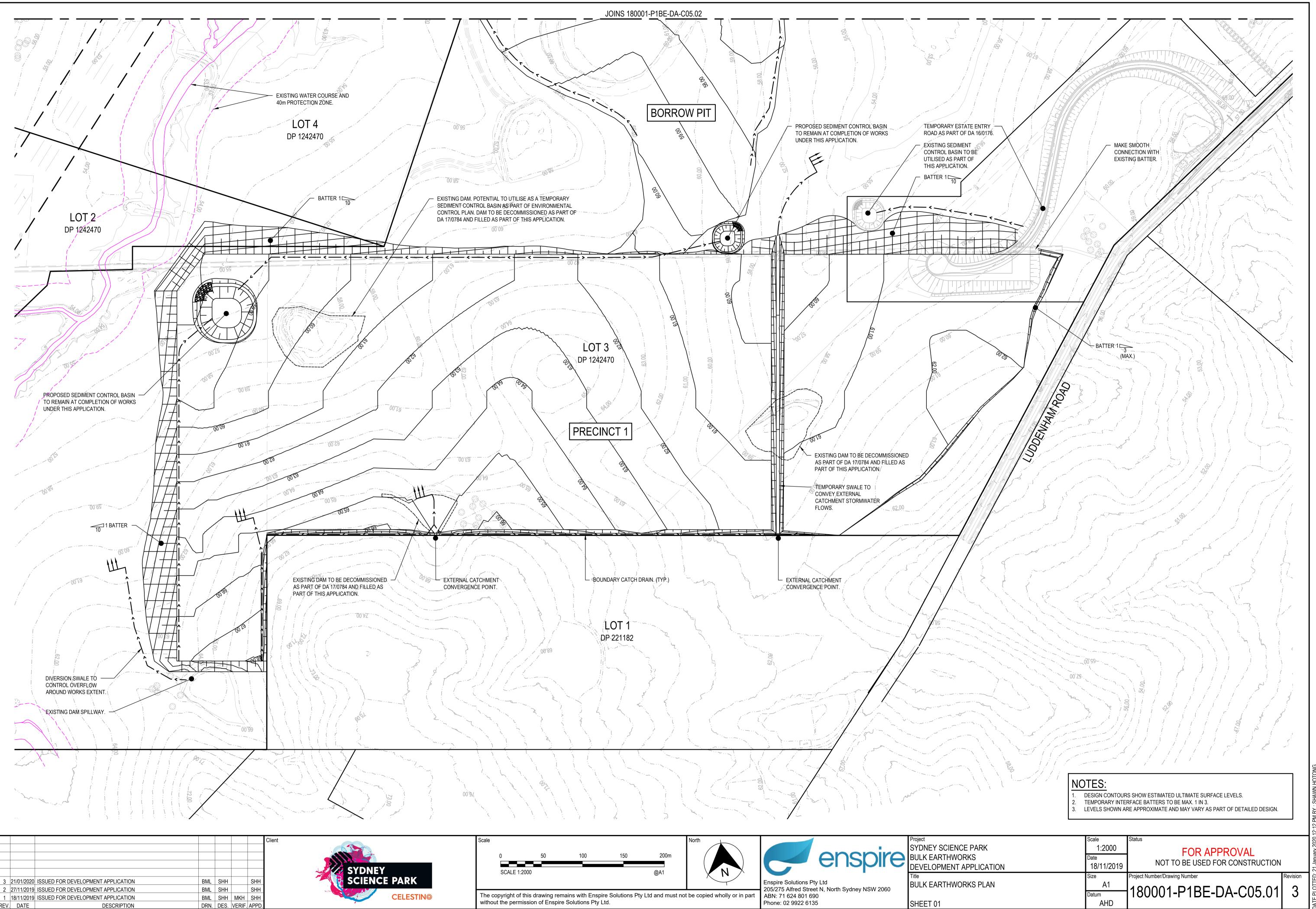
C04.01

				3 (MA) E	X)	~			₩ BDY		
										DENHAM R	OAD
DATUM RL 47.0											
EXISTING SURFACE	60.91	26.09	60.98	60.92	60.58	59.97	59.22	58.67	58.38	58.01	
ULTIMATE SURFACE	61.80	61.77	61.74								
CHAINAGE	0.00	10.00	20.00	30.00	40.00	50.00	60.00	00.07	80.00	00.06	



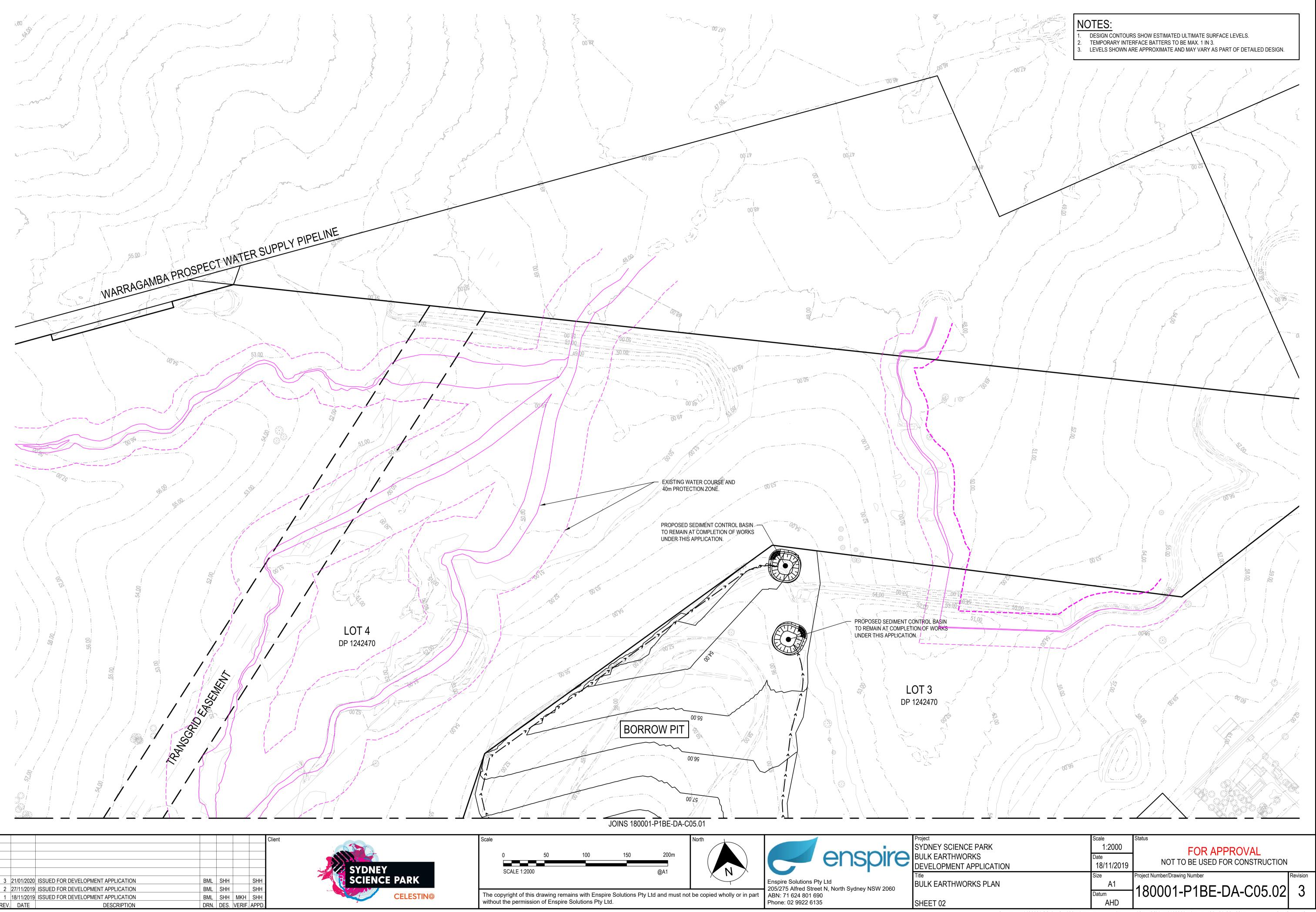
# LEGEND





cale 0 50 100 150 200m SCALE 1:2000 @A1	North	Enspire Solutions Pty Ltd	Project SYDNEY SCIENCE PARK BULK EARTHWORKS DEVELOPMENT APPLICATION Title BULK EARTHWORKS PLAN
The copyright of this drawing remains with Enspire Solutions Pty Ltd and must no vithout the permission of Enspire Solutions Pty Ltd.	t be copied wholly or in part	205/275 Alfred Street N, North Sydney NSW 2060 ABN: 71 624 801 690 Phone: 02 9922 6135	SHEET 01

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						Client
						SYDNEY
3	21/01/2020	ISSUED FOR DEVELOPMENT APPLICATION	BML	SHH	SHH	SCIENCE PARK
2	27/11/2019	ISSUED FOR DEVELOPMENT APPLICATION	BML	SHH	SHH	
1	18/11/2019	ISSUED FOR DEVELOPMENT APPLICATION	BML	SHH MKH	SHH	CELESTINO
REV	. DATE	DESCRIPTION	DRN.	DES. VERIF.	APPD.	

Scale 1:2000	Status FOR APPROVAL	
Date 18/11/2019	NOT TO BE USED FOR CONSTRUCTION	
Size A1	,	Revision
Datum AHD	180001-P1BE-DA-C05.02	3

CAD File: P:\180001 SSP\D-Civil\06-P1 Bulk Earthworks\Drawings\6-DACC\1-DA\180001-P1BE-DA-C05.01-C05.02 BULK EARTHWORKS PLANS.dwg