

BURRA PARK

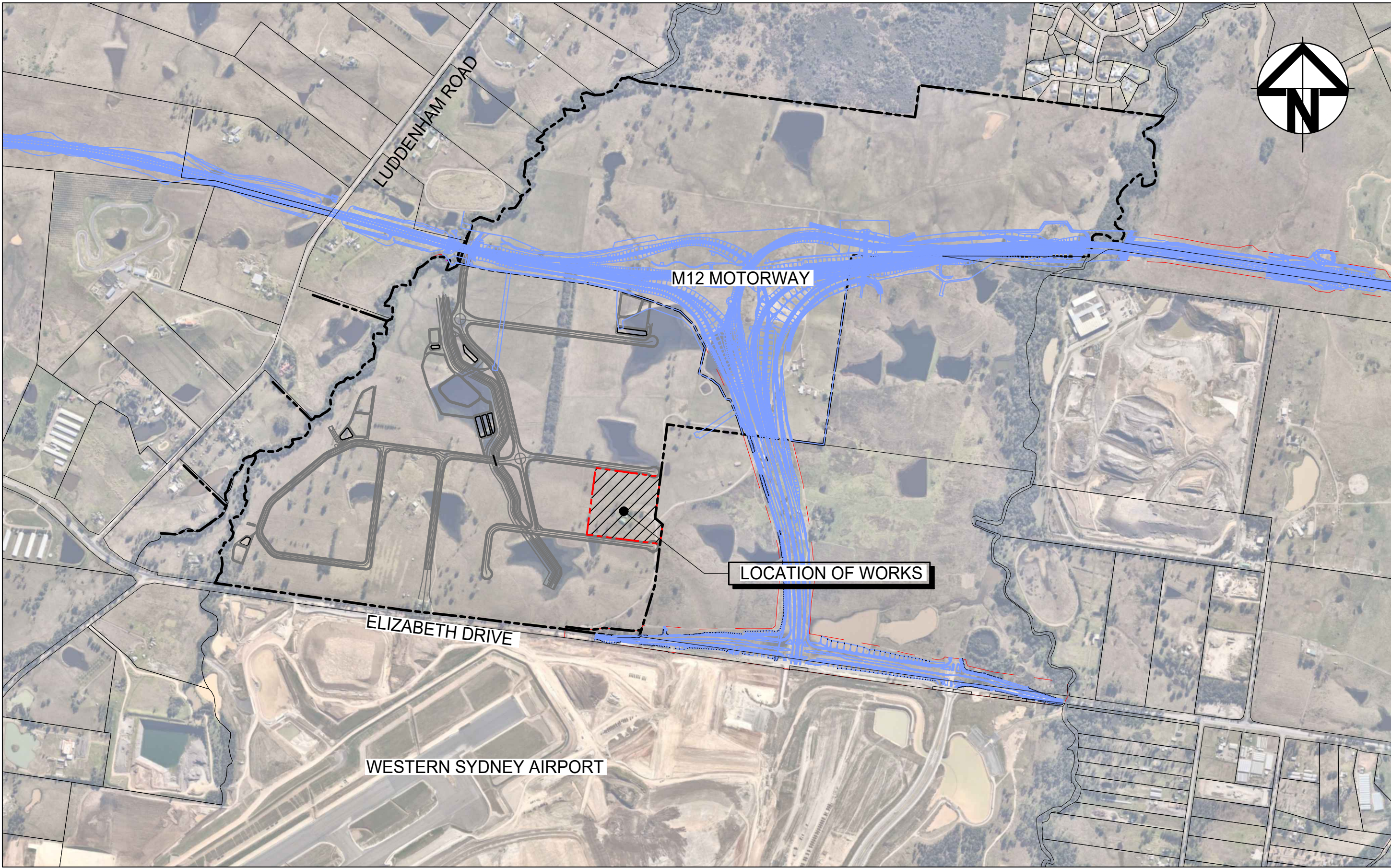
ELIZABETH DRIVE, BADGERYS CREEK

LOT 4.2 (WAREHOUSE 03)

CIVIL WORKS PACKAGE

SSDA - 70818708

DRAWING No.	DRAWING LIST
22-993-C1300	LOT 4.2 (WH 03) COVER SHEET, DRAWING LIST AND LOCALITY PLAN
22-993-C1301	LOT 4.2 (WH 03) GENERAL NOTES
22-993-C1302	LOT 4.2 (WH 03) GENERAL ARRANGEMENT
22-993-C1305	LOT 4.2 (WH 03) SITE SECTIONS
22-993-C1308	LOT 4.2 (WH 03) BULK EARTHWORKS CUT/FILL PLAN
22-993-C1311	LOT 4.2 (WH 03) SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 1
22-993-C1312	LOT 4.2 (WH 03) SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 2
22-993-C1313	LOT 4.2 (WH 03) SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 3
22-993-C1314	LOT 4.2 (WH 03) SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 4
22-993-C1318	LOT 4.2 (WH 03) STORMWATER DRAINAGE DETAILS
22-993-C1320	LOT 4.2 (WH 03) PAVEMENT PLAN SHEET 1
22-993-C1325	LOT 4.2 (WH 03) EROSION AND SEDIMENT CONTROL PLAN BULK EARTHWORKS PHASE
22-993-C1326	LOT 4.2 (WH 03) EROSION AND SEDIMENT CONTROL PLAN CIVIL WORKS PHASE
22-993-C1327	LOT 4.2 (WH 03) EROSION AND SEDIMENT CONTROL PLAN STABILISATION PHASE
22-993-C1330	LOT 4.2 (WH 03) EROSION AND SEDIMENT CONTROL DETAILS SHEET 1
22-993-C1331	LOT 4.2 (WH 03) EROSION AND SEDIMENT CONTROL DETAILS SHEET 2



LOCALITY PLAN
NTS

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					Designed BL					
Grid GDA2020	Checked CB									
Height Datum AHD	Approved				Title LOT 4.2 (WH 03) COVER SHEET, DRAWING LIST AND LOCALITY PLAN	Status FOR APPROVAL NOT FOR CONSTRUCTION A1				
										
								Project - Drawing No. 22-993-C1300		Issue E
Issue	Description				Date					

1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK, ANY DISCREPANCIES TO BE REPORTED TO AT & L.
3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
5. ALL SERVICE TRENCHES UNDER vehicular PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE, WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO A MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1, (OR A DENSITY INDEX OF NOT LESS THAN 75)
6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
7. ASPHALTIC CONCRETE SHALL CONFORM TO R.M.S SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051 (UNBOUND), R.M.S FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1
FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF BASECOURSE MATERIAL PLACED.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1
FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF SUB-BASE COURSE MATERIAL PLACED.
10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH R.M.S FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THE CONTRACTOR IS TO SEEK ACCEPTANCE OF THE PRODUCT FROM AT&L. THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY BOXALL SURVEYORS, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AT & L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

SUBJECT DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT AT & L.

THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS.

NOTES

1. THE BOUNDARIES HAVE APPROXIMATELY BEEN SURVEYED IN ACCORDANCE WITH CLAUSE 9 OF THE SURVEYING & SPATIAL INFORMATION REGULATION 2017
2. ALL AREAS AND DIMENSIONS HAVE BEEN COMPILED FROM PLANS MADE AVAILABLE BY NSW LAND REGISTRY SERVICES AND ARE SUBJECT TO FINAL SURVEY
3. ORIGIN OF COORDINATES HAS BEEN DERIVED USING GPS (GNSS) SURVEY FROM SSM33562
4. ORIGIN OF LEVELS ON A.H.D. IS TAKEN FROM SSM33562 R.L. 43.021 (A.H.D.) IN MAMRE ROAD USING GPS (GNSS) SURVEY METHODS.
5. CONTOUR INTERVAL 0.5 m
6. CONTOURS ARE INDICATIVE ONLY. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION
7. NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. SERVICES HAVE BEEN PLOTTED FROM RELEVANT AUTHORITIES INFORMATION AND HAVE NOT BEEN SURVEYED. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE
8. N47°40'7" TREES SPREAD OF 8m, TRUNK DIAMETER OF 0.4m & APPROX HEIGHT OF 7m
9. SHOWS APPROXIMATE POSITION OF ROAD LINEMARKING AND IS INDICATIVE ONLY
10. BEARINGS SHOWN ARE MGA (MAP GRID OF AUSTRALIA) ADD APPROX. 1°00' FOR TRUE NORTH

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

2. CONCRETE QUALITY
ALL REQUIREMENTS OF THE CURRENT ASCE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 F _c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS, AND PITS	25	80	20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL

- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.

3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY A T. L.

4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.

5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TYPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.

6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.M.S SPECIFICATION R83.

7. REINFORCEMENT SYMBOLS:
N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N
R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302
SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304

NUMBER OF BARS IN GROUP BAR GRADE AND TYPE
17 N 20 250
NOMINAL BAR SIZE In mm SPACING In mm

THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 1304.

8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 23MPa U.N.O IN REINFORCED CONCRETE NOTES.

ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED AT MIN. 100mm GRADULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).

EXPANSION JOINTS (E.J) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT PORTIONS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.

WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.

BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.

IN THE REPLACEMENT OF KERB AND GUTTER :-
EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.N.O.

EXISTING ALTOURNE DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE.

EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

STORMWATER DESIGN CRITERIA:

- (A) AVERAGE RECURRENT INTERVAL:
 - 1:100 YEARS = MAJOR STORM (OVERLAND FLOW)
 - 1:20 YEARS = MINOR STORM (PIPED NETWORK)
- (B) RAINFALL INTENSITIES:
 - TIME OF CONCENTRATION = 5 MINUTES
 - 1:100 YEARS = 219 mm/hr
 - 1:20 YEARS = 167 mm/hr
- (C) RUNOFF COEFFICIENTS:
 - ROOF AREAS: $C = 100$ $= 1.0$
 - EXTERNAL PAVEMENTS: $C = 100$ $= 1.0$

2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.

3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.

4. EQUIVALENT STRENGTH VCP OR FRP PIPES MAY BE USED, SUBJECT TO THE APPROVAL OF PENRITH CITY COUNCIL.

5. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.

6. PIPES TO BE INSTALLED TO TYPE HSI SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS IN PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% DRY DENSITY OR MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)

7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).

8. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & I

9. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.

10. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.

11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.

12. GRATES AND COVERS SHALL CONFORM TO AS 3996.

13. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.

14. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

1. ALL FINISHED SURFACE LEVELS ARE $\pm 1000\text{mm}$ U.N.O.

ANY DEWATERING WORKS TO BE AS PER THE DEWATERING PROCEDURE
AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL
MANAGEMENT PLAN (CEMP).

DEMOLITION OF EXISTING DWELLINGS TO BE CONDUCTED IN ACCORDANCE WITH THE PROVISIONS OF AS2601-2001- DEMOLITION OF STRUCTURES BY CONTRACTORS EXPERIENCED IN THIS CLASS OF WORK AND HOLDING REQUIRED CURRENT PERMITS AND LICENSES AS REQUIRED.

EXISTING INTERNALS FENCING, CATTLE YARDS, UTILITIES AND OTHER REDUNDANT STRUCTURES TO BE DEMOLISHED AND REMOVED TO AN APPROVED WASTE MANAGEMENT FACILITY.

DAM DECOMMISSIONING TO BE COMPLETED AS PER THE DAM DECOMMISSIONING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP).

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.

AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

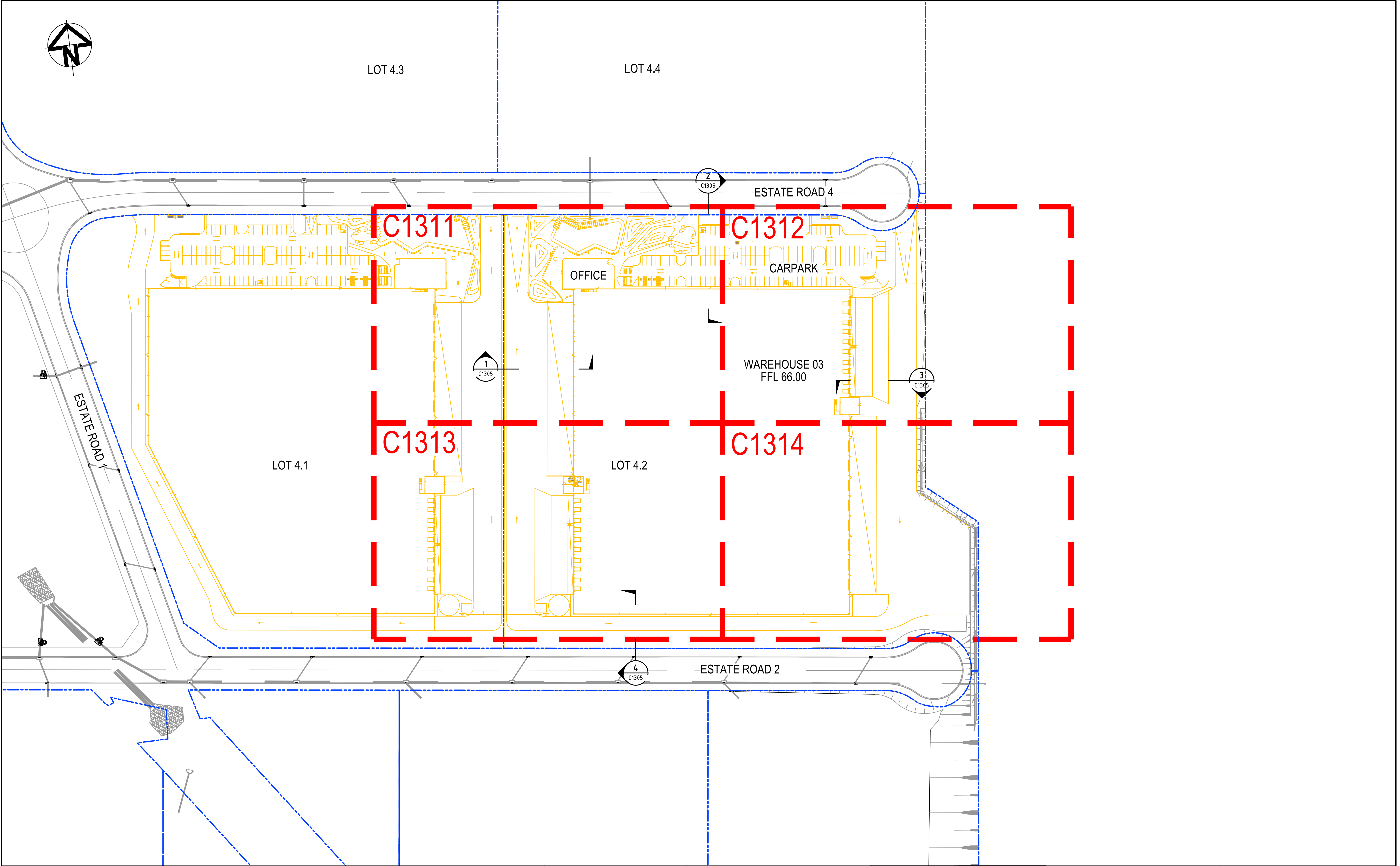
CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.

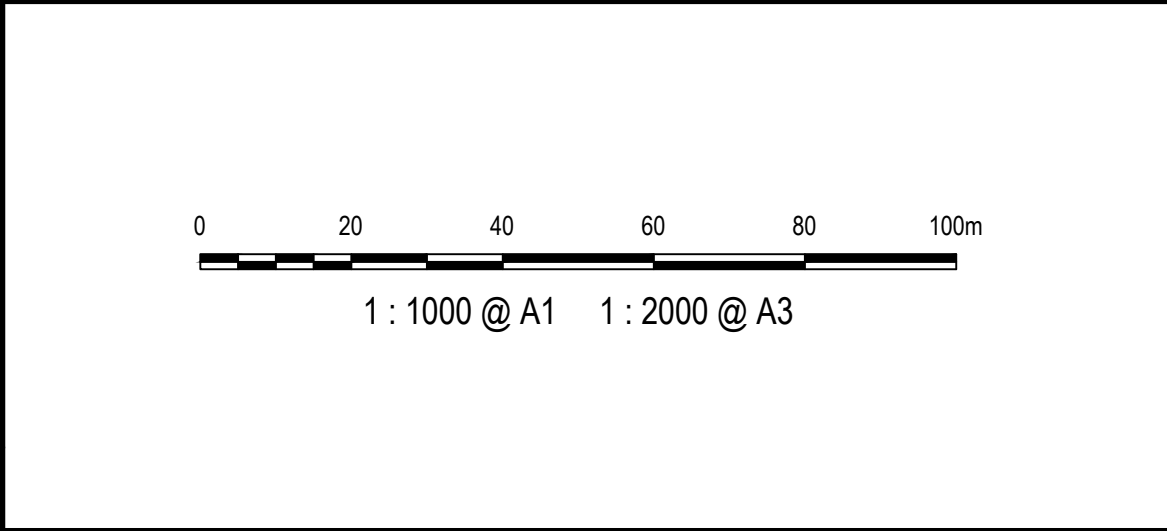
CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

1. STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND BACKFILL TO FIRM GROUND. RECOVER TOPSOIL FOR LATER USE. CUT BACK AREA TO FIRM GROUND.
2. CONSTRUCT EMBANKMENT IN PRESENCE OF QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IF NOT ROCK.
3. IN THE CASE WHERE THE EMBANKMENT AREAS SLUSH, GROUTING AND DENTAL CONCRETE MAY BE REQUIRED, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
4. COMPACT CLAY STABILIZED WITH GYPSUM (3% BY DRY MASS, MINIMUM) AS APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER INTO THE CUT-OFF TRENCH OF LAYERS NOT EXCEEDING 150mm LOOSE THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT.
5. GYPSUM STABILIZED NATURAL SOILS EXPOSED IN EMBANKMENT AREA WITH MINIMUM 3% GYPSUM BY DRY MASS AND COMPACT AS FOR #4. ALL TO THE APPROVAL OF A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
6. CONSTRUCT BODY OF EMBANKMENT WITH CLAYEY MATERIAL WON FROM SITE. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYERS NOT EXCEEDING 150mm THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT. MOST IMPORTANTLY, IF SHRINKAGE CRACKS OCCUR, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
7. OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.
8. TRIM THE EMBANKMENTS BATTERS TO THE OVERFILLED MATERIAL, STABILIZE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3% BY DRY MASS, MINIMUM) AND COMPACT TO MIN. 98% STD -2% TO +2% OMC.
9. PLACE ROCK RIP-RAP AS SHOWN.
10. RECOVER TOPSOIL FROM STOCKPILE AND SPREAD OVER EMBANKMENT AND CUT BATTERS (A THIN COVER OF TOPSOIL ONLY HAS BEEN NOMINATED), ONLY LIGHTLY TRACK-ROLL THE TOPSOIL AND THEN LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE AREA DRAWINGS.
11. WATER AND FERTILIZE LANDSCAPE AS REQUIRED BY CLIMATIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL.
12. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION & CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED & EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

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					NTS	Designed	BL					
E	ISSUE FOR COORDINATION	11-10-24			Grid	GDA2020	Checked				CB	
WIP	ISSUE FOR COORDINATION	14-08-24			Height Datum	AHD	Approved		Title LOT 4.2 (WH 03) GENERAL NOTES	Status	FOR APPROVAL NOT FOR CONSTRUCTION	A1
D	ISSUED FOR SSD APPROVAL	31-07-24								Project - Drawing No.	Issue	
C	ISSUED FOR SSD APPROVAL	23-05-23								22-993-C1301	E	
B	ISSUE FOR COORDINATION	24-04-23										
A	ISSUED FOR SSD REVIEW	10-10-22										
Issue	Description	Date										



H	ISSUE FOR COORDINATION	24-10-24
G	ISSUE FOR COORDINATION	11-10-24
WIP	ISSUE FOR COORDINATION	14-08-24
F	ISSUED FOR SSD APPROVAL	31-07-24
E	ISSUED FOR SSD APPROVAL	23-05-23
D	ISSUE FOR COORDINATION	24-04-23
C	ISSUED FOR SSD APPROVAL	10-10-22
B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD REVIEW	09-09-22
Issue	Description	Date



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Client



Scales
1:1000 @ A1

Grid
GDA2020

Height Datum
AHD

Drawn
NT

Designed
BL

Checked
CB

Approved



Project
BURRA PARK
DEVELOPMENT

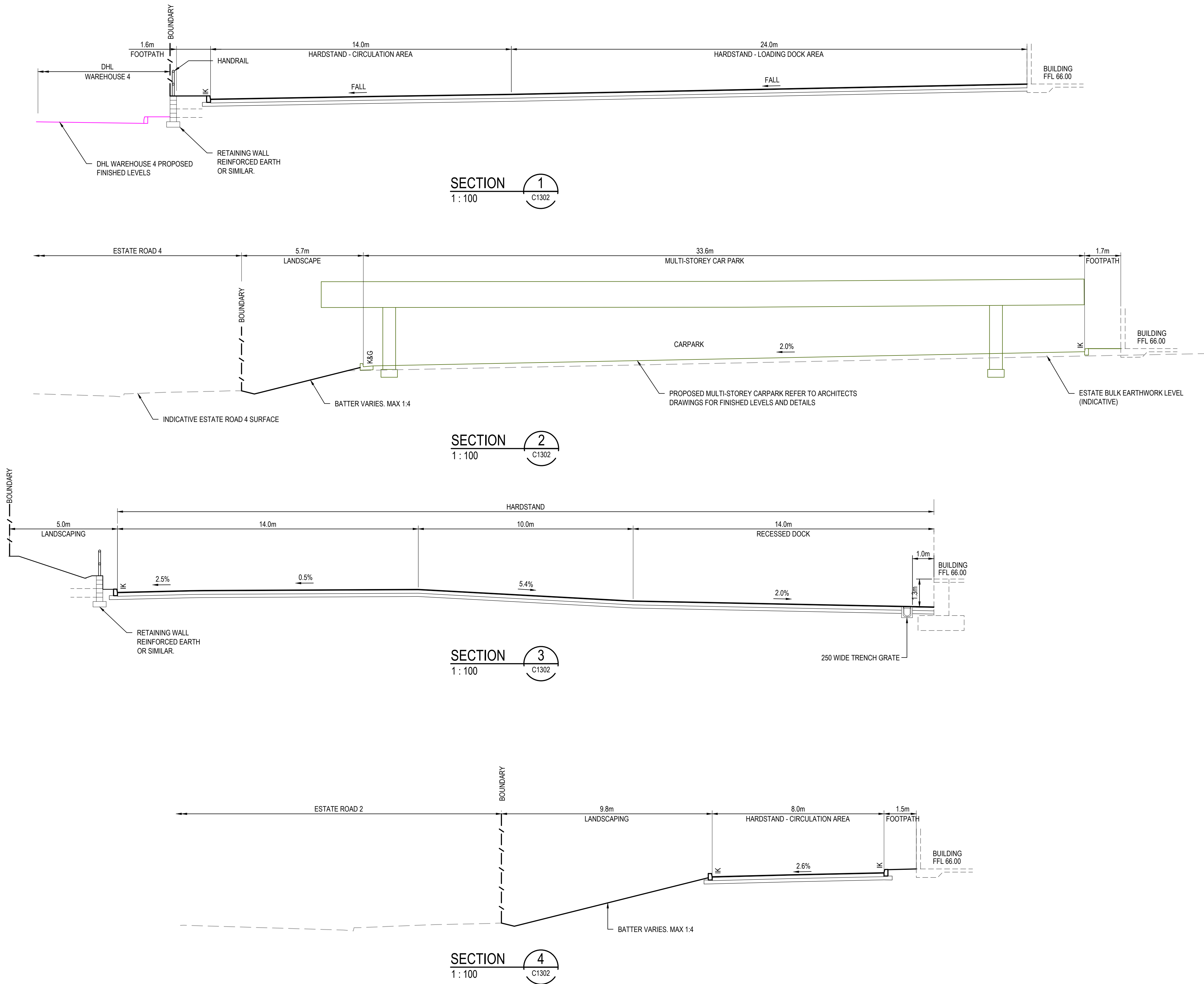
Title
LOT 4.2 (WH 03)
GENERAL ARRANGEMENT

Civil Engineers and Project Managers

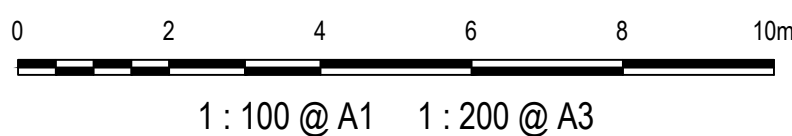


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Status FOR APPROVAL NOT FOR CONSTRUCTION	A1
Project - Drawing No. 22-993-C1302	Issue H



G	ISSUE FOR COORDINATION	11-10-24
WIP	ISSUE FOR COORDINATION	14-08-24
F	ISSUED FOR SSD APPROVAL	31-07-24
E	ISSUED FOR SSD APPROVAL	23-05-23
D	ISSUE FOR COORDINATION	24-04-23
C	ISSUED FOR SSD APPROVAL	10-10-22
B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD REVIEW	09-09-22
Issue	Description	Date



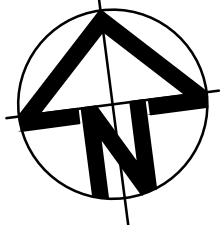
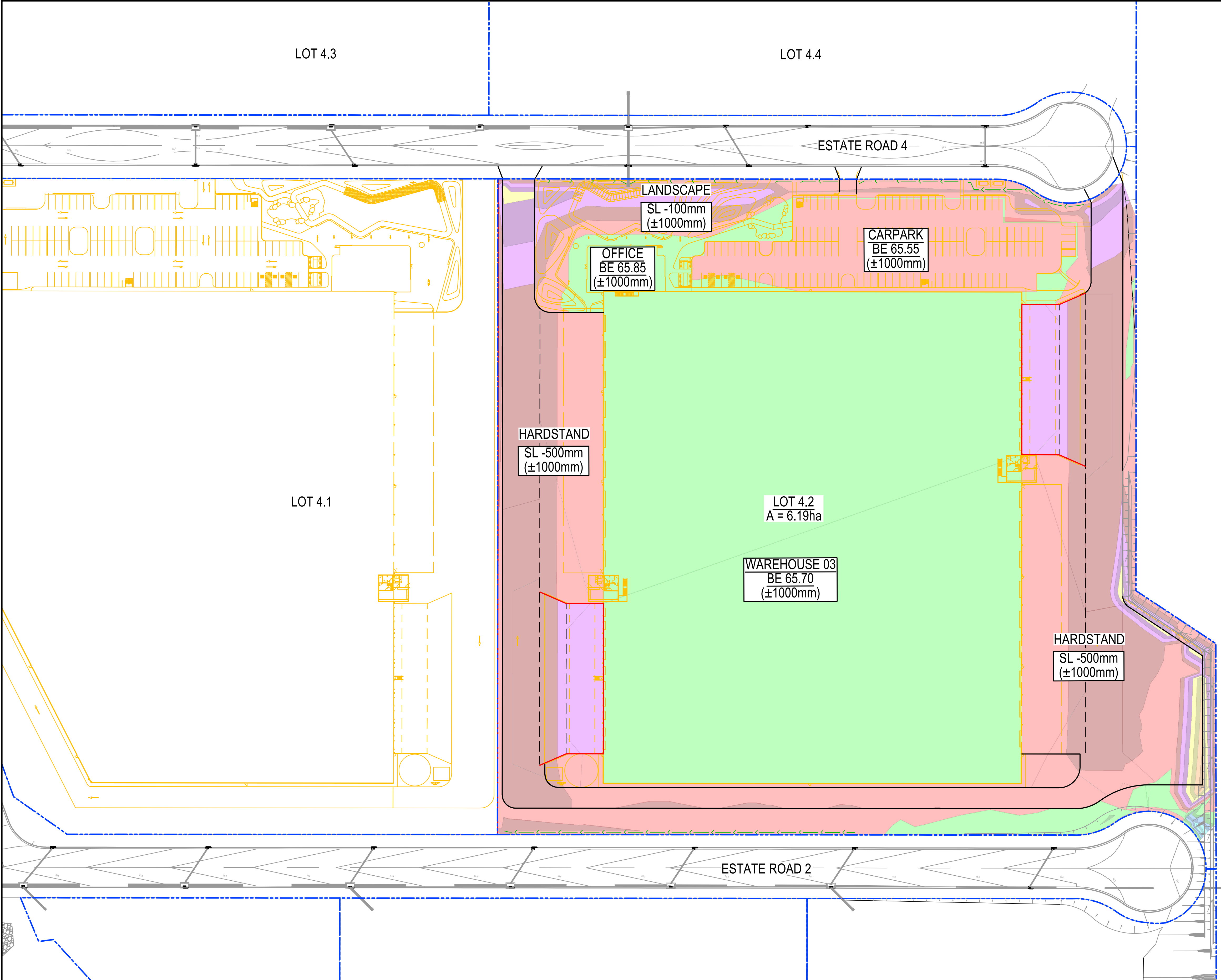
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Scales	1:100 @ A1	Drawn	NT
		Designed	BL
Grid	GDA2020	Checked	CB
Height Datum	AHD	Approved	
GDA2020			

Project	BURRA PARK DEVELOPMENT
Title	LOT 4.2 (WH 03) SITE SECTIONS

Civil Engineers and Project Managers		
at&l		
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Status	FOR APPROVAL NOT FOR CONSTRUCTION	A1
Project - Drawing No.	22-993-C1305	Issue G



CUT/FILL DEPTH RANGE LEGEND		
Lower_value	Upper_value	Colour
-2.5	to -2.0	m
-2.0	to -1.5	m
-1.5	to -1.0	m
-1.0	to -0.5	m
-0.5	to 0.0	m
0.0	to 0.5	m
0.5	to 1.0	m
1.0	to 1.5	m
1.5	to 2.0	m
2.0	to 2.5	m

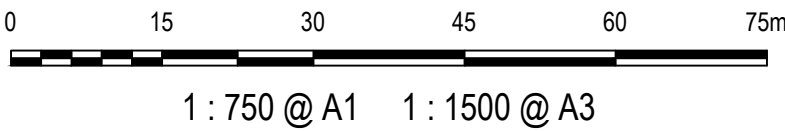
EARTHWORKS VOLUMES

A	B	C=A+B
NET CUT (cu.m)	NET FILL (cu.m)	BALANCE (cu.m)
-16,773	1,972	-14,801 (EXPORT)

NOTES

1. EARTHWORKS VOLUMES WERE CALCULATED BETWEEN THE DESIGN EARTHWORKS SURFACE AND THE ESTATE VENDOR'S EARTHWORKS SURFACE.
2. IT IS ASSUMED THAT ON-LOT EARTHWORKS WILL COMMENCE IMMEDIATELY AFTER COMPLETION OF THE ESTATE VENDOR'S EARTHWORKS. NO SITE STRIPPING NECESSARY.
3. EARTHWORKS VOLUMES DO NOT TAKE INTO ACCOUNT THE FOLLOWING :-
- BULKING FACTORS
 - REMOVAL AND/OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL AND FARM DAMS.
 - STORMWATER AND UTILITY TRENCHING
 - PROPOSED RETAINING WALL AND UNDERGROUND TANK EARTHWORKS AND BACKFILL MATERIAL
 - SEDIMENT BASINS
4. ALL LEVELS ARE SUBJECT TO FURTHER COORDINATION WITH THE ESTATE WORKS. ALLOW FOR ±1000mm

Issue	Description	Date
E	ISSUE FOR COORDINATION	11-10-24
WIP	ISSUE FOR COORDINATION	14-08-24
D	ISSUED FOR SSD APPROVAL	31-07-24
C	ISSUED FOR SSD APPROVAL	23-05-23
B	ISSUE FOR COORDINATION	24-04-23
A	ISSUED FOR SSD REVIEW	10-10-22



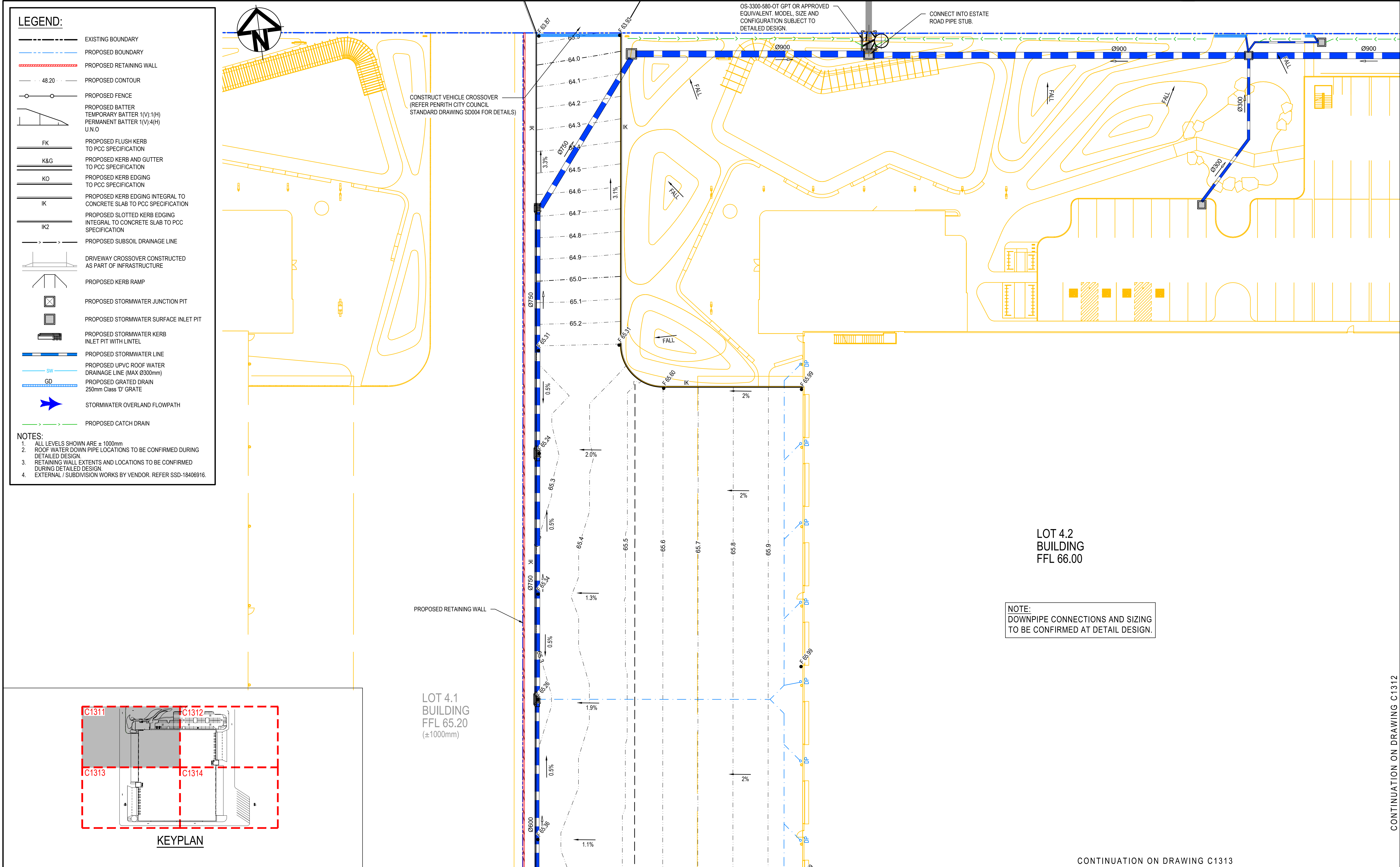
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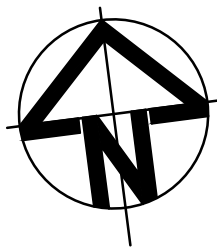
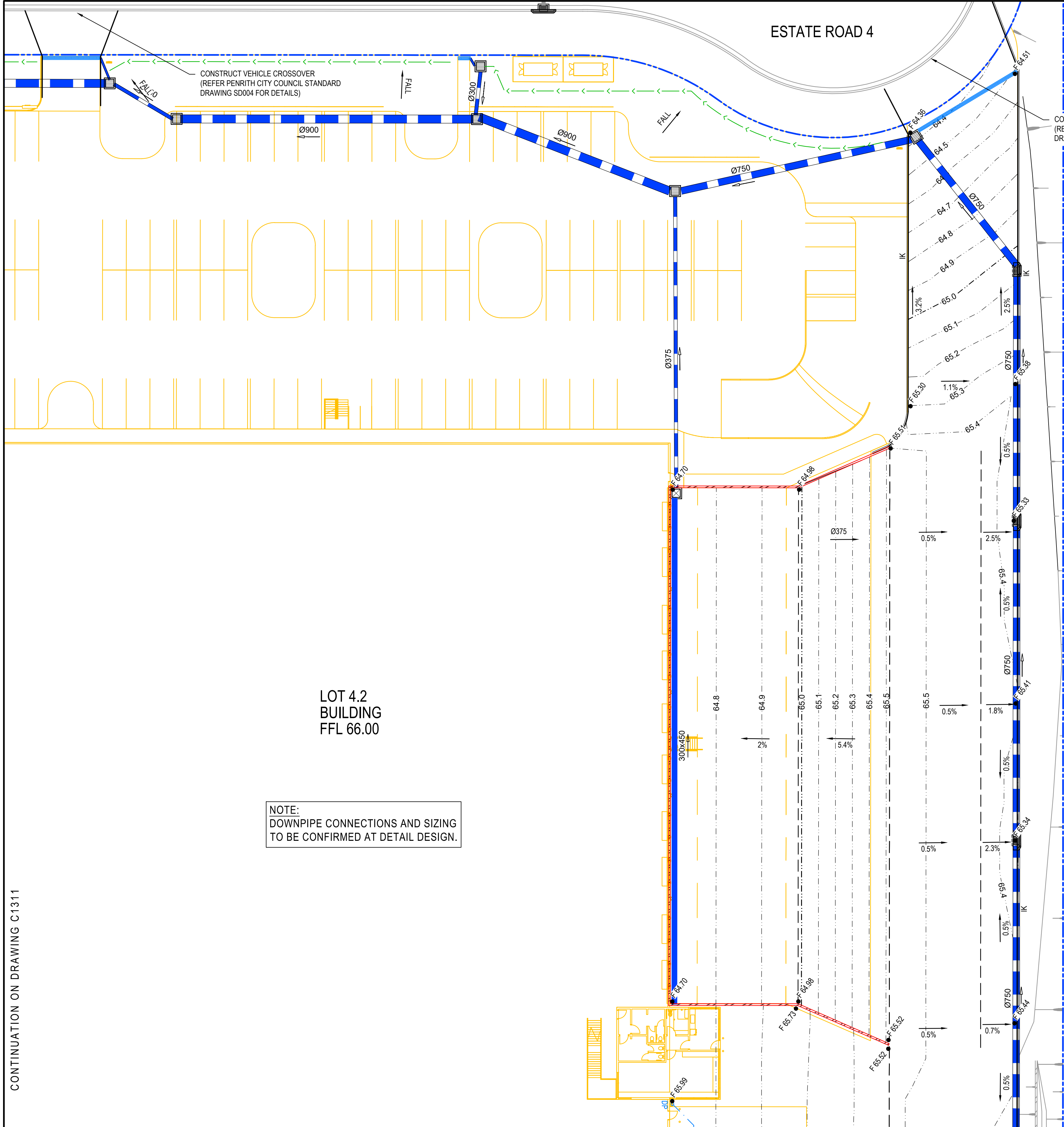
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		Designed	BL
Grid	GDA2020	Checked	CB
Height Datum	AHD	Approved	
GDA2020			

Project	BURRA PARK DEVELOPMENT
Title	LOT 4.2 (WH 03) BULK EARTHWORKS CUT/FILL PLAN

Civil Engineers and Project Managers		
at&l		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL NOT FOR CONSTRUCTION	A1
Project - Drawing No.	22-993-C1308	Issue E



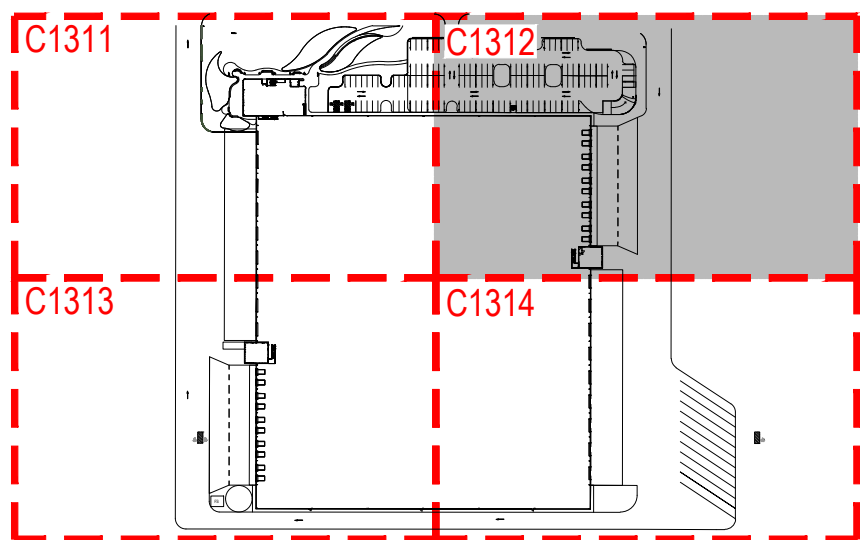
G ISSUE FOR COORDINATION 11-10-24			WIP ISSUE FOR COORDINATION 14-08-24			F ISSUED FOR SSD APPROVAL 31-07-24			E ISSUED FOR SSD APPROVAL 23-05-23			D ISSUE FOR COORDINATION 24-04-23			C ISSUED FOR SSD APPROVAL 10-10-22			B ISSUED FOR FINAL SSD REVIEW 30-09-22			A ISSUED FOR SSD REVIEW 09-09-22		
Issue	Description	Date	Issue	Description	Date	Issue	Description	Date	Issue	Description	Date	Issue	Description	Date	Issue	Description	Date	Issue	Description	Date	Issue	Description	Date



LEGEND:

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED RETAINING WALL
- PROPOSED CONTOUR
- PROPOSED FENCE
- PROPOSED BATTER
TEMPORARY BATTER 1(V):1(H)
PERMANENT BATTER 1(V):4(H)
U.N.O
- PROPOSED FLUSH KERB
TO PCC SPECIFICATION
- PROPOSED KERB AND GUTTER
TO PCC SPECIFICATION
- PROPOSED KERB EDGING
TO PCC SPECIFICATION
- PROPOSED KERB EDGING INTEGRAL TO
CONCRETE SLAB TO PCC SPECIFICATION
- PROPOSED SLOTTED KERB EDGING
INTEGRAL TO CONCRETE SLAB TO PCC
SPECIFICATION
- PROPOSED SUBSOIL DRAINAGE LINE
- DRIVEWAY CROSSOVER CONSTRUCTED
AS PART OF INFRASTRUCTURE
- PROPOSED KERB RAMP
- PROPOSED STORMWATER JUNCTION PIT
- PROPOSED STORMWATER SURFACE INLET PIT
- PROPOSED STORMWATER KERB
INLET PIT WITH LINTEL
- PROPOSED STORMWATER LINE
- PROPOSED UPVC ROOF WATER
DRAINAGE LINE (MAX Ø300mm)
- PROPOSED GRATED DRAIN
250mm Class 'D' GRATE
- STORMWATER OVERLAND FLOWPATH
- PROPOSED CATCH DRAIN

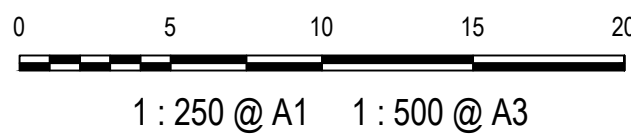
- NOTES:
- ALL LEVELS SHOWN ARE ± 1000 mm
 - ROOF WATER DOWN PIPE LOCATIONS TO BE CONFIRMED DURING DETAILED DESIGN.
 - RETAINING WALL EXTENTS AND LOCATIONS TO BE CONFIRMED DURING DETAILED DESIGN.
 - EXTERNAL / SUBDIVISION WORKS BY VENDOR. REFER SSD-18406916.



KEYPLAN

CONTINUATION ON DRAWING C1311

G	ISSUE FOR COORDINATION	11-10-24
WIP	ISSUE FOR COORDINATION	14-08-24
F	ISSUED FOR SSD APPROVAL	31-07-24
E	ISSUED FOR SSD APPROVAL	23-05-23
D	ISSUE FOR COORDINATION	24-04-23
C	ISSUED FOR SSD APPROVAL	10-10-22
B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD REVIEW	09-09-22
Issue	Description	Date



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Scales

1:250 @ A1

Drawn

NT

Designed

BL

Grid

GDA2020

Checked

CB

Height
Datum

AHD

Approved

Project

BURRA PARK
DEVELOPMENT

Title

LOT 4.2 (WH 03)
SITEWORKS AND
STORMWATER DRAINAGE
PLAN SHEET 2

Civil Engineers and Project Managers

at&l

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info@atl.net.au

Status

FOR APPROVAL
NOT FOR CONSTRUCTION

A1

Project - Drawing No.

22-993-C1312

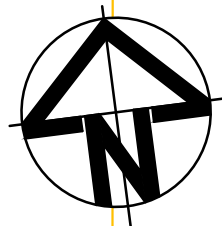
Issue

G

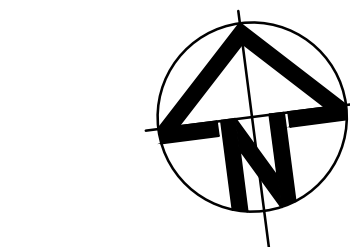
CONTINUATION ON DRAWING C1314

NOTES:

1. ALL LEVELS SHOWN ARE $\pm 1000\text{mm}$
2. ROOF WATER DOWN PIPE LOCATIONS TO BE CONFIRMED DURING DETAILED DESIGN.
3. RETAINING WALL EXTENTS AND LOCATIONS TO BE CONFIRMED DURING DETAILED DESIGN.
4. EXTERNAL / SUBDIVISION WORKS BY VENDOR. REFER SSD-18406916.

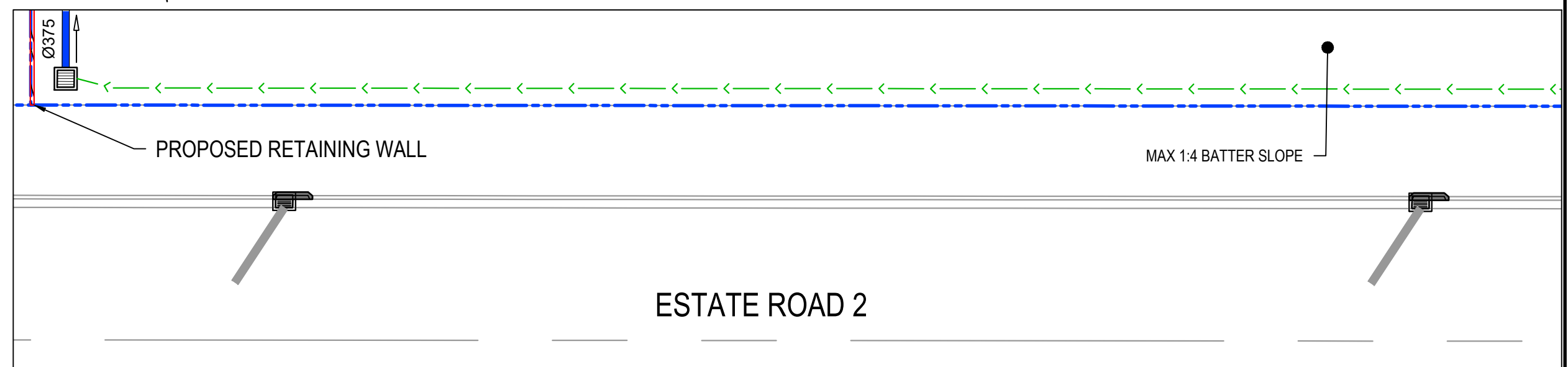


LOT 4.1
BUILDING
FFL 65.20
(±1000mm)

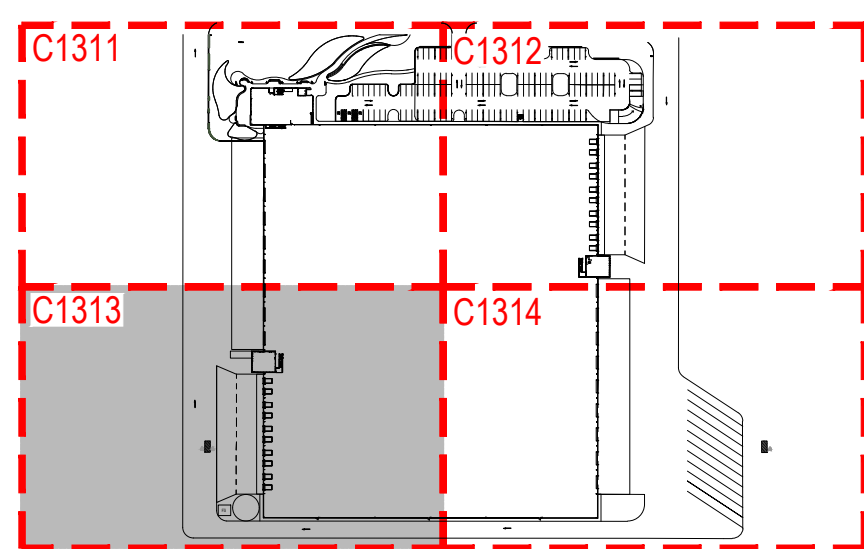


NOTE:
DOWNPIPE CONNECTIONS AND SIZING
TO BE CONFIRMED AT DETAIL DESIGN.

LOT 4.2
BUILDING
FFL 66.00



INSET A
1 : 250

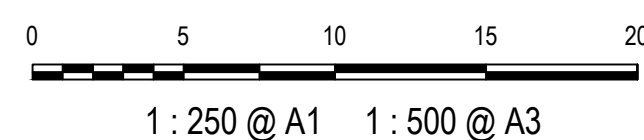


KEYPLAN

PROPOSED RETAINING WALL

REFER TO INSET A FOR CONTINUATION

G	ISSUE FOR COORDINATION	11-10-24
WIP	ISSUE FOR COORDINATION	14-08-24
F	ISSUED FOR SSD APPROVAL	31-07-24
E	ISSUED FOR SSD APPROVAL	23-05-23
D	ISSUE FOR COORDINATION	24-04-23
C	ISSUED FOR SSD APPROVAL	10-10-22
B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD REVIEW	09-09-22
Issue	Description	Date



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		Designed	BL
Grid	GDA2020	Checked	CB
Height Datum	AHD	Approved	



Project	BURRA PARK DEVELOPMENT
Title	LOT 4.2 (WH 03) SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 3

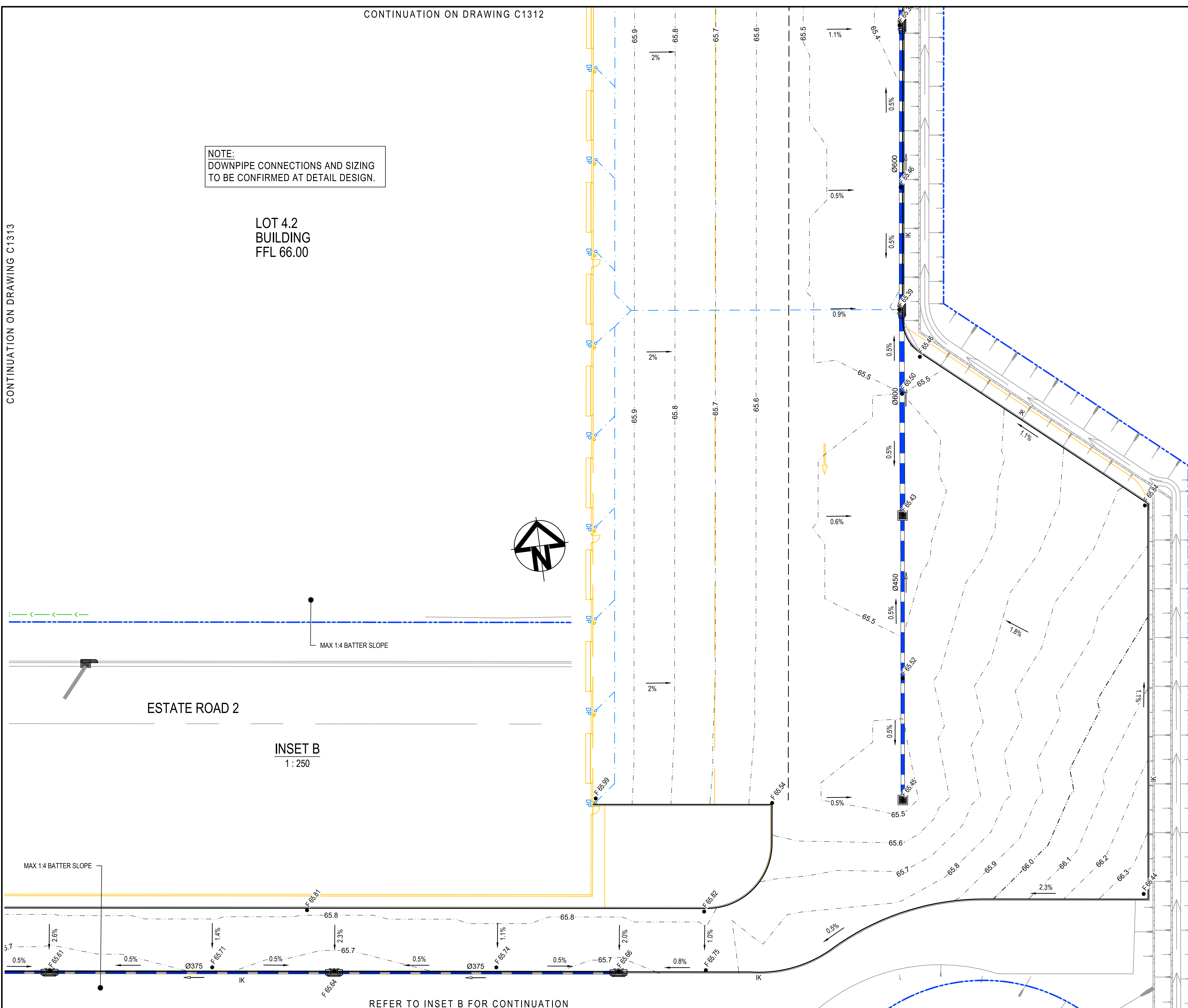
Civil Engineers and Project Managers			
	Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 682 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atli.net.au info@atli.net.au		
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FOR APPROVAL NOT FOR CONSTRUCTION	A1		
Project - Drawing No. 22-993-C1313	Issue G		

CONTINUATION ON DRAWING C1313

CONTINUATION ON DRAWING C1312

NOTE:
DOWNSPIPE CONNECTIONS AND SIZING
TO BE CONFIRMED AT DETAIL DESIGN.

LOT 4.2
BUILDING
FFL 66.00



ESTATE ROAD 2

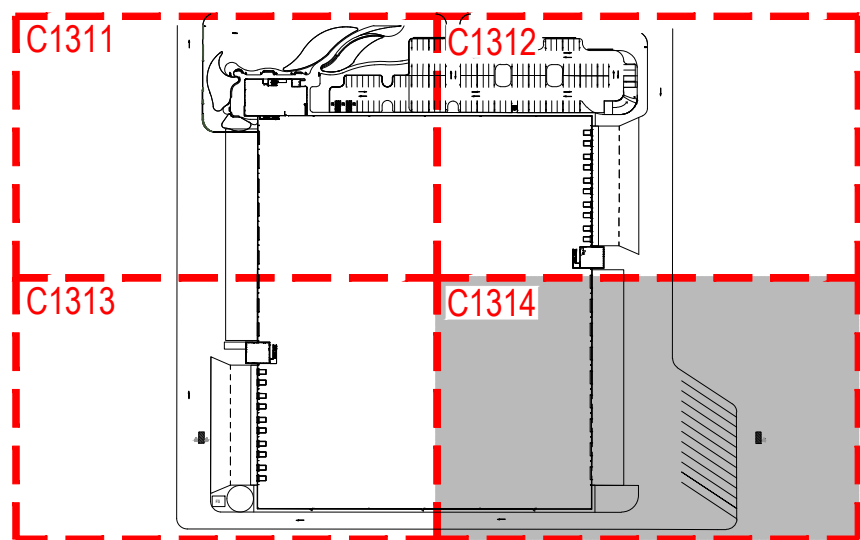
INSET B
1:250

REFER TO INSET B FOR CONTINUATION

LEGEND:

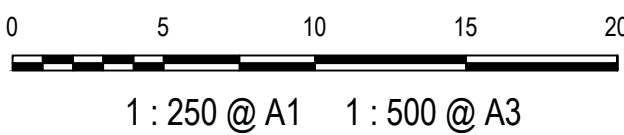
- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED RETAINING WALL
- PROPOSED CONTOUR
- PROPOSED FENCE
- PROPOSED BATTER
TEMPORARY BATTER 1(V):1(H)
PERMANENT BATTER 1(V):4(H)
U.N.O
- PROPOSED FLUSH KERB
TO PCC SPECIFICATION
- PROPOSED KERB AND GUTTER
TO PCC SPECIFICATION
- PROPOSED KERB EDGING
TO PCC SPECIFICATION
- PROPOSED KERB EDGING INTEGRAL TO
CONCRETE SLAB TO PCC SPECIFICATION
- PROPOSED SLOTTED KERB EDGING
INTEGRAL TO CONCRETE SLAB TO PCC
SPECIFICATION
- PROPOSED SUBSOIL DRAINAGE LINE
- DRIVEWAY CROSSOVER CONSTRUCTED
AS PART OF INFRASTRUCTURE
- PROPOSED KERB RAMP
- PROPOSED STORMWATER JUNCTION PIT
- PROPOSED STORMWATER SURFACE INLET PIT
- PROPOSED STORMWATER KERB
INLET PIT WITH LINTEL
- PROPOSED STORMWATER LINE
- PROPOSED UPVC ROOF WATER
DRAINAGE LINE (MAX Ø300mm)
- PROPOSED GRATED DRAIN
250mm Class 'D' GRATE
- STORMWATER OVERLAND FLOWPATH
- PROPOSED CATCH DRAIN

- NOTES:
- ALL LEVELS SHOWN ARE ± 1000 mm
 - ROOF WATER DOWN PIPE LOCATIONS TO BE CONFIRMED DURING DETAILED DESIGN.
 - RETAINING WALL EXTENTS AND LOCATIONS TO BE CONFIRMED DURING DETAILED DESIGN.
 - EXTERNAL / SUBDIVISION WORKS BY VENDOR. REFER SSD-18406916.



KEYPLAN

Issue	Description	Date
G	ISSUE FOR COORDINATION	11-10-24
WIP	ISSUE FOR COORDINATION	14-08-24
F	ISSUED FOR SSD APPROVAL	31-07-24
E	ISSUED FOR SSD APPROVAL	23-05-23
D	ISSUE FOR COORDINATION	24-04-23
C	ISSUED FOR SSD APPROVAL	10-10-22
B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD REVIEW	09-09-22



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Scales
1:250 @ A1

Grid
GDA2020

Height Datum
AHD

Drawn
NT

Designed
BL

Checked
CB

Approved

GDA2020

Project
BURRA PARK
DEVELOPMENT

Title
LOT 4.2 (WH 03)
SITEWORKS AND
STORMWATER DRAINAGE
PLAN SHEET 4

Civil Engineers and Project Managers

at&l

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info@atl.net.au

Status
FOR APPROVAL
NOT FOR CONSTRUCTION

Project - Drawing No.
22-993-C1314

Issue
G

A1



STORMWATER PIT
SETOUT POINTS
REFER PIT SETOUT PLANS
FOR ENLARGED CHAMBERS

NOTE

1. $\geq 0.2D$ OR $0.3m$ (WHICHEVER IS GREATER)
2. $100mm$ FOR PIPE DIA. ≤ 1500



NOTE

1. $\geq 0.2D$ OR $0.3m$ (WHICHEVER IS GREATER,
2. $100mm$ FOR PIPE DIA. ≤ 1500

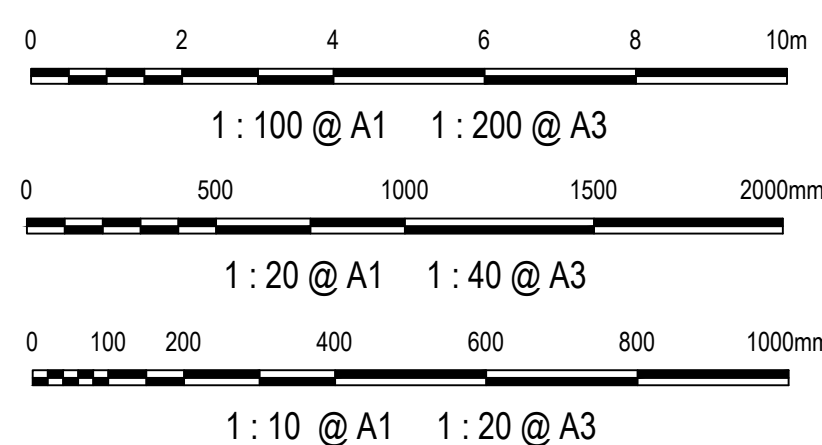
1. STANDARD GULLY PITS REFER TO PENRITH COUNCIL STANDARD DRAWINGS FOR DETAILS
2. FOR INLET SIZE, PIT CHAMBER SIZE AND SETOUT REFER TO STORMWATER LONGITUDINAL SECTIONS.
3. REINFORCING MESH IS TO BE BENT TO LAP 300 AROUND ALL CORNERS. VERTICAL BARS ARE NOT TO BE CUT. ALTERNATELY PROVIDE N12 "L" BARS (500x500) AT 400 VERTICAL CTS.
4. COMPRESSIVE STRENGTH (F_c) FOR CAST IN SITU CONCRETE SHALL BE A MINIMUM 32 MPa AT 28 DAYS.
5. TOP OF BENCHING SHALL BE $\frac{1}{2}$ OF OUTLET PIPE DIAMETER.
6. 100mm SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDE ADJACENT TO INLET PIPES.
7. ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP.
8. PIT GRATE TO BE "WELDLOK" GULLY GRATE GG 78-50 OR APPROVED EQUIVALENT.
9. DURING INSTALLATION OF GRATE AND FRAME CONTRACTOR IS TO ENSURE CLEARANCE BETWEEN LINTEL AND OPENED GRATE (REFER TO INSTALLATION TOLERANCE).
10. PROVIDE STEP IRONS AS INDICATED FOR PITS DEEPER THAN 1200.
11. N12 AT 200 CENTRALLY PLACED MAY BE USED IN LIEU OF MESH. LAP 500 AT CORNERS
12. MINIMUM REINFORCEMENT COVER TO BE 45mm UNLESS NOTED OTHERWISE
13. CHAMBER DEPTH EXCEEDING 2m IN HEIGHT WILL BE DESIGNED AND APPROVED BY STRUCTURAL ENGINEER
14. CONCRETE STRENGTH - UNLESS NOTED OTHERWISE

at&I

Status	FOR APPROVAL NOT FOR CONSTRUCTION	A1
Project - Drawing No.	22-993-C1318	Issue G



G	ISSUE FOR COORDINATION	11-10-24
WIP	ISSUE FOR COORDINATION	14-08-24
F	ISSUED FOR SSD APPROVAL	31-07-24
E	ISSUED FOR SSD APPROVAL	23-05-23
D	ISSUE FOR COORDINATION	24-04-23
C	ISSUED FOR SSD APPROVAL	10-10-22
B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD REVIEW	09-09-22
Issue	Description	Date



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Scales

AS SHOWN		NT
		Designed
Grid	GDA2020	BL
Height Datum	AHD	Checked
		CB
		Approved



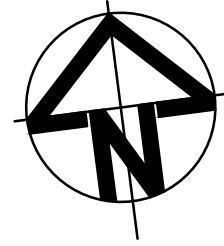
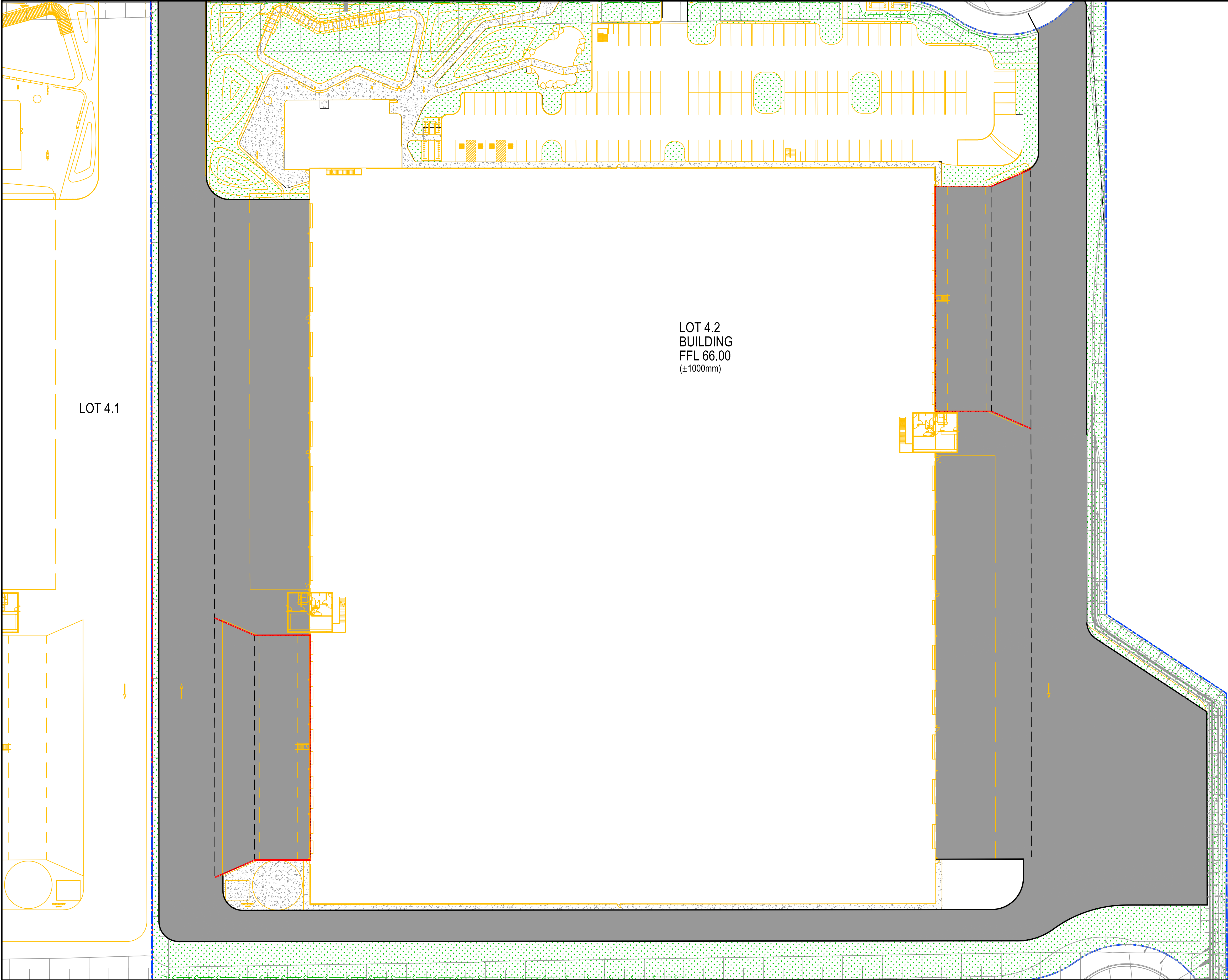
Project	
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BURRA PARK
DEVELOPMENT

	Title
--	-------

LOT 4.2 (WH 03)
STORMWATER DRAINAGE
DETAILS

Civil Engineers and Project Managers



LEGEND

HEAVY DUTY RIGID PAVEMENT

ASPHALT PAVEMENT
CARPARK AISLES

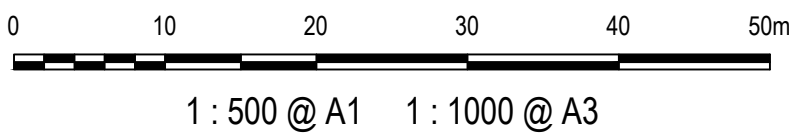
PERMEABLE PAVEMENT

LANDSCAPE

FOOTPATH

NOTE : ALL ASPHALT TO HAVE JETCOOL SEALANT
APPLIED TO ACCORDANCE WITH MANUFACTURERS
SPECIFICATIONS.

G	ISSUE FOR COORDINATION	11-10-24
WIP	ISSUE FOR COORDINATION	14-08-24
F	ISSUED FOR SSD APPROVAL	31-07-24
E	ISSUED FOR SSD APPROVAL	23-05-23
D	ISSUE FOR COORDINATION	24-04-23
C	ISSUED FOR SSD APPROVAL	10-10-22
B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD REVIEW	09-09-22
Issue	Description	Date



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Scales

1:500 @ A1

Grid

GDA2020

Height Datum

AHD

Drawn

NT

Designed

BL

Checked

CB

Approved

Project

BURRA PARK
DEVELOPMENT

Title

LOT 4.2 (WH 03)
PAVEMENT PLAN
SHEET 1

Civil Engineers and Project Managers

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ABN 96 130 882 405
Tel: 02 9439 1777
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www.atl.net.au
info@atl.net.au

Status

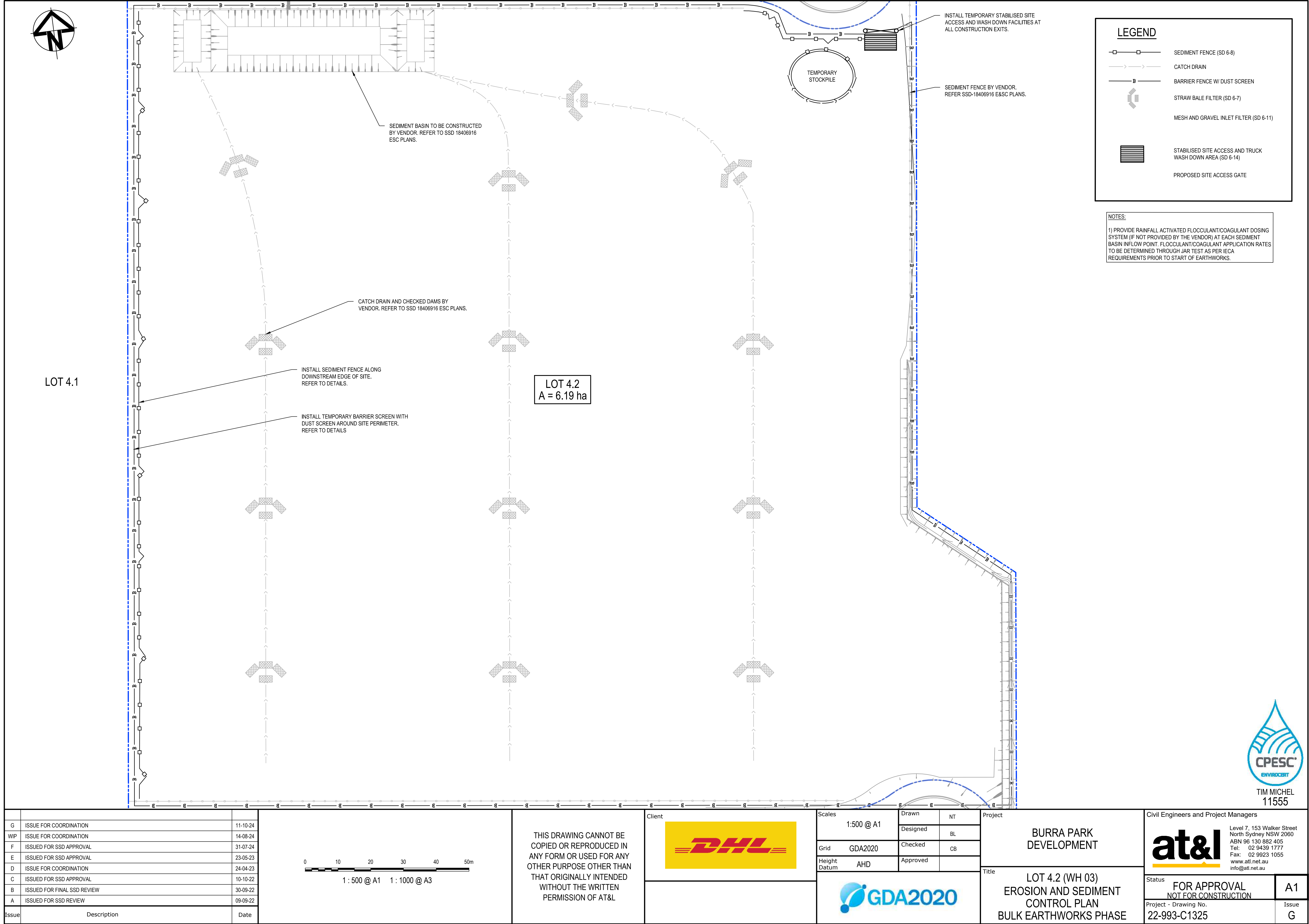
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NOT FOR CONSTRUCTION

Project - Drawing No.

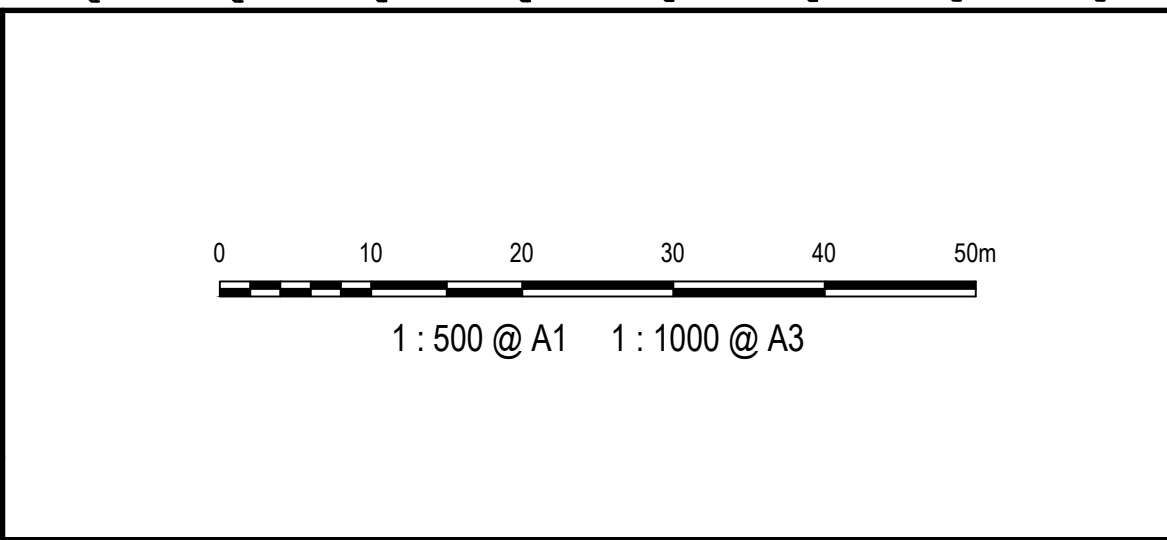
22-993-C1320

Issue

G



G	ISSUE FOR COORDINATION	11-10-24
WIP	ISSUE FOR COORDINATION	14-08-24
F	ISSUED FOR SSD APPROVAL	31-07-24
E	ISSUED FOR SSD APPROVAL	23-05-23
D	ISSUE FOR COORDINATION	24-04-23
C	ISSUED FOR SSD APPROVAL	10-10-22
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A	ISSUED FOR SSD REVIEW	09-09-22
Issue	Description	Date



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Scales

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Grid GDA2020

Height Datum AHD

Drawn

Designed

Checked

Approved



Project

BURRA PARK DEVELOPMENT

Title

LOT 4.2 (WH 03)
EROSION AND SEDIMENT CONTROL PLAN
BULK EARTHWORKS PHASE

Civil Engineers and Project Managers

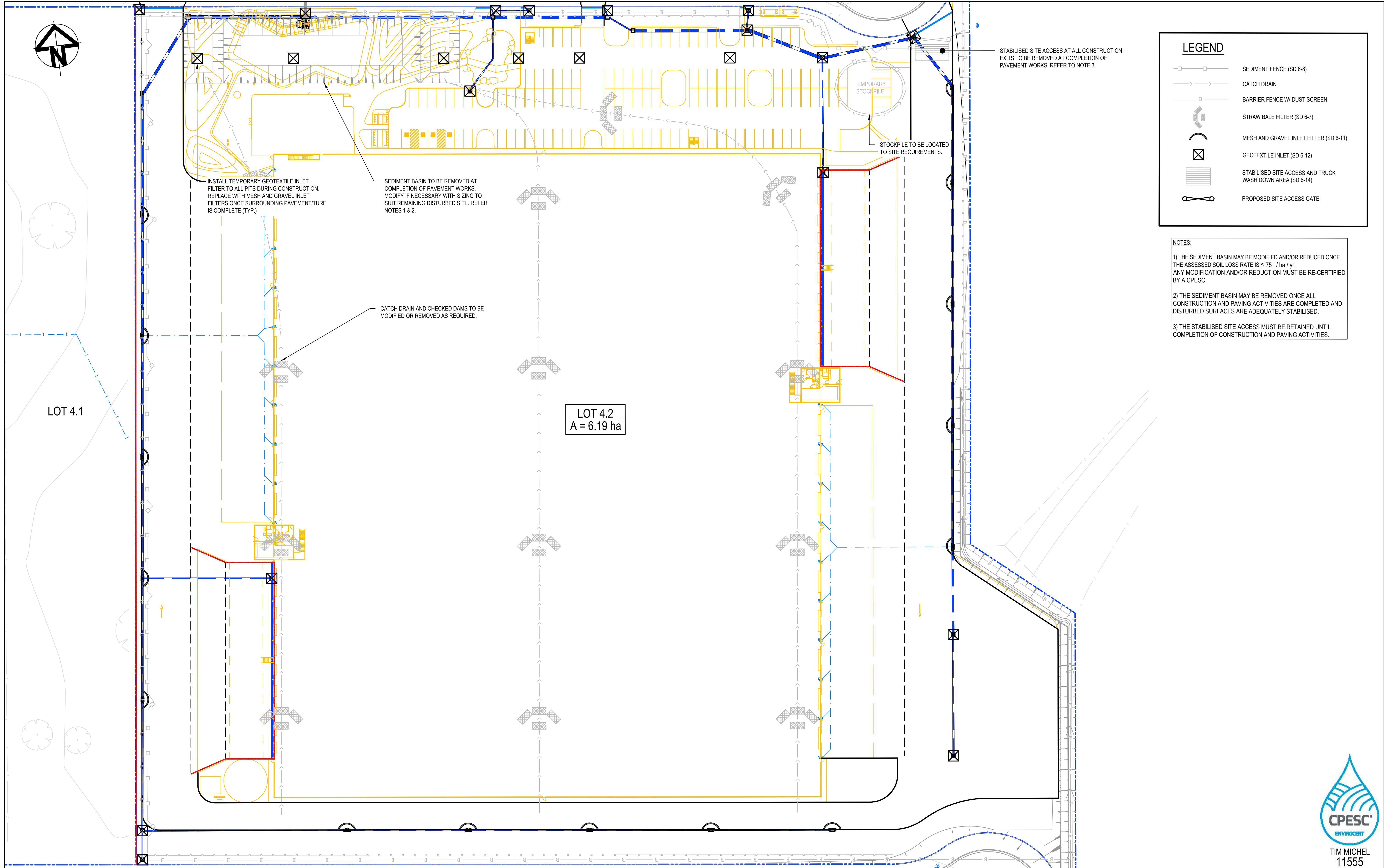


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info@atl.net.au

Status	FOR APPROVAL NOT FOR CONSTRUCTION	A1
Project - Drawing No.	22-993-C1325	Issue G



TIM MICHEL
11555



LEGEND

- SEDIMENT FENCE (SD 6-8)
- CATCH DRAIN
- BARRIER FENCE W/ DUST SCREEN
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- PROPOSED SITE ACCESS GATE

NOTES:

1) THE SEDIMENT BASIN MAY BE MODIFIED AND/OR REDUCED ONCE THE ASSESSED SOIL LOSS RATE IS ≤ 75 t / ha / yr. ANY MODIFICATION AND/OR REDUCTION MUST BE RE-CERTIFIED BY A CPESC.

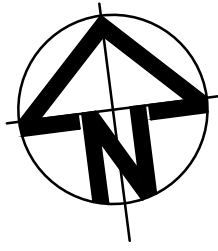
2) THE SEDIMENT BASIN MAY BE REMOVED ONCE ALL CONSTRUCTION AND PAVING ACTIVITIES ARE COMPLETED AND DISTURBED SURFACES ARE ADEQUATELY STABILISED.

3) THE STABILISED SITE ACCESS MUST BE RETAINED UNTIL COMPLETION OF CONSTRUCTION AND PAVING ACTIVITIES.

CPESC
ENVIROCERT

TIM MICHEL
11555

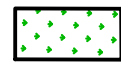
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LOT 4.1

LOT 4.2
A = 6.19 ha

LEGEND



SURFACES TO BE STABILISED WITH
TURF/PLANTING.
(REFER TO LANDSCAPE ARCHITECT'S DWGS)



SURFACES TO BE STABILISED WITH PAVEMENTS
OR COVERED UNDER BUILDING ROOF.
(REFER TO LANDSCAPE ARCHITECT'S DWGS)

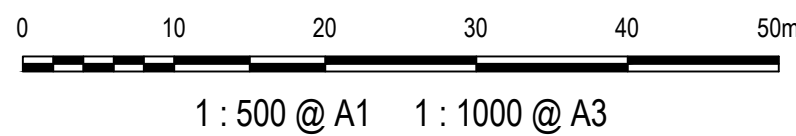
NOTES:

- 1) TURF, TREES AND PLANTS TO BE PLANTED AND PROTECTED AS EARLY AS POSSIBLE IN ACCORDANCE WITH THE LANDSCAPE ARCHITECT'S / SUPPLIER'S SPECIFICATIONS.
- 2) CONTRACTOR TO MAINTAIN ALL TURF AND PLANTING THROUGHOUT THE MAINTENANCE PERIOD IN ACCORDANCE WITH THE LANDSCAPE ARCHITECT'S / SUPPLIERS SPECIFICATIONS.
- 3) ALL PAVED SURFACES SHALL BE SWEEPED CLEAN REGULARLY TO PREVENT LITTER AND SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM.
- 4) TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY BE REMOVED AT COMPLETION OF ALL CONSTRUCTION AND STABILISATION WORKS.
- 5) LANDSCAPE IRRIGATION SYSTEM TO BE INSTALLED AND OPERATIONAL PRIOR TO PLANTING. IRRIGATION SYSTEM IS TO BE SUPPLIED FROM RAINWATER HARVESTING TANKS WITH AUTOMATIC SWITCH TO TEMPORARY WATER SUPPLY SYSTEM WHEN THE TANKS ARE EMPTY.
- 6) TEMPORARY RAINWATER TANKS TO BE REMOVED WHEN PERMANENT RECYCLED WATER SUPPLY IS AVAILABLE TO THE SITE.



TIM MICHEL
11555

G	ISSUE FOR COORDINATION	11-10-24
WIP	ISSUE FOR COORDINATION	14-08-24
F	ISSUED FOR SSD APPROVAL	31-07-24
E	ISSUED FOR SSD APPROVAL	23-05-23
D	ISSUE FOR COORDINATION	24-04-23
C	ISSUED FOR SSD APPROVAL	10-10-22
B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD REVIEW	09-09-22
Issue	Description	Date



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OTHER PURPOSE OTHER THAN
THAT ORIGINALLY INTENDED
WITHOUT THE WRITTEN
PERMISSION OF AT&L

Client



Scales

1:500 @ A1

Drawn

NT

Designed

BL

Grid

GDA2020

Checked

CB

Height
Datum

AHD

Approved

Project

BURRA PARK
DEVELOPMENT

Title

LOT 4.2 (WH 03)
EROSION AND SEDIMENT
CONTROL PLAN
STABILISATION PHASE

Civil Engineers and Project Managers



Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
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www.atl.net.au
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Status

FOR APPROVAL
NOT FOR CONSTRUCTION

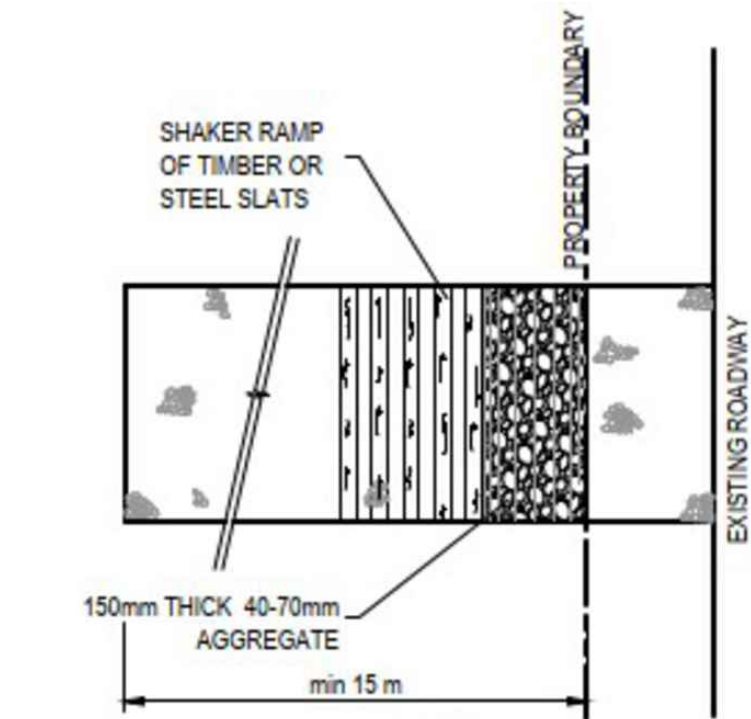
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Project - Drawing No.

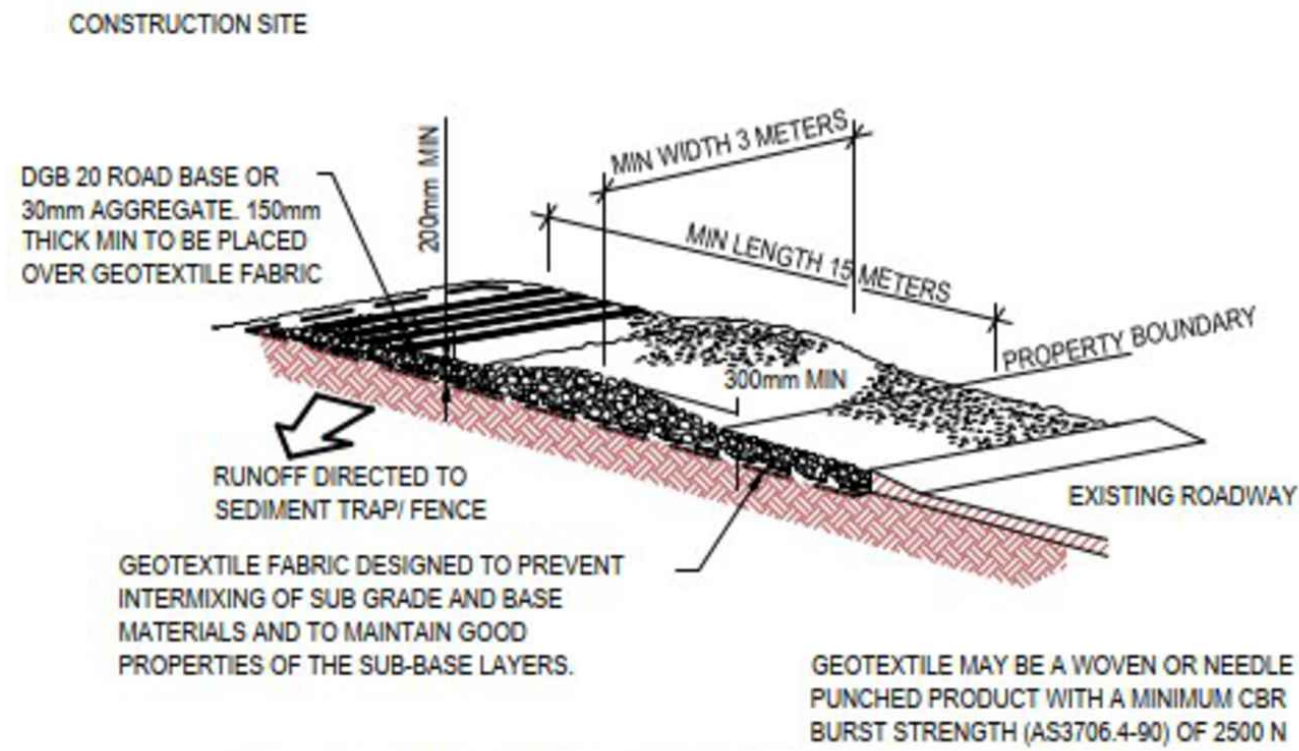
22-993-C1327

Issue

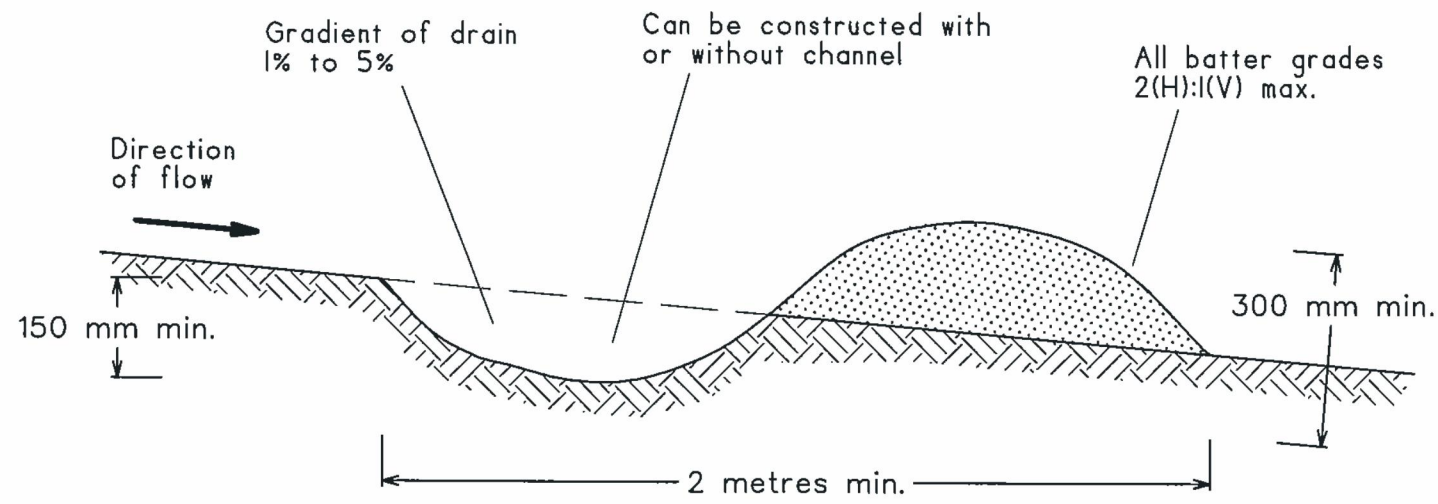
G



PLAN
STABILISED SITE ACCESS WITH SHAKER GRID
N.T.S.



STABILISED SITE ACCESS WITH SHAKER GRID



NOTE: Only to be used as temporary bank where maximum upslope length is 80 metres.

Construction Notes

- Build with gradients between 1 percent and 5 percent.
- Avoid removing trees and shrubs if possible - work around them.
- Ensure the structures are free of projections or other irregularities that could impede water flow.
- Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
- Ensure the banks are properly compacted to prevent failure.
- Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW)

SD 5-5

EROSION AND SEDIMENT CONTROL

NOTES

GENERAL INSTRUCTIONS

- THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
- ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
 - LOCAL AUTHORITY REQUIREMENTS
 - EPA REQUIREMENTS
 - LANDCOM'S "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
- WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
- CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN, AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:

- INSTALL A WIND FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
- INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
- CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
- INSTALL SEDIMENT BASIN AS SHOWN ON PLANS.
- INSTALL SEDIMENT TRAPS AS SHOWN ON PLANS.
- UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.

8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.

10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.

11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.

12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.

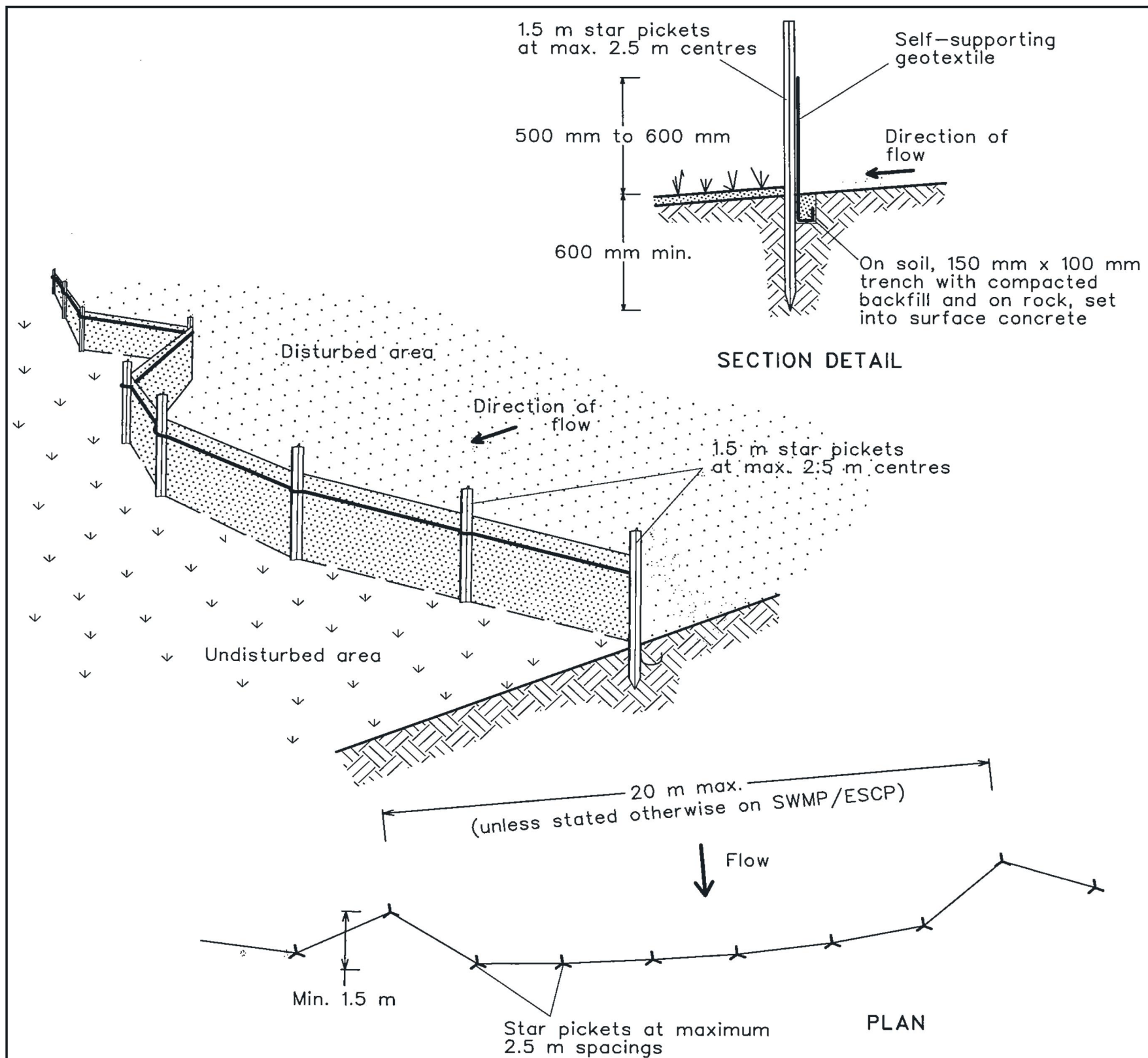
14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:

- PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
- ENSURING THAT NOTHING IS NAILED TO THEM
- PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS:
 - ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICHEVER IS THE GREATER
 - A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
 - CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

STAGING

SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE DESIGNED, PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT ALL STAGES OF WORKS, INCLUDING AT COMPLETION OF THE BULK EARTHWORKS WHERE SHOWN ON AT&L DRAWINGS OR WHERE DIRECTED BY THE SUPERINTENDENT OR PENRITH CITY COUNCIL'S ENGINEERS.

SEDIMENT AND EROSION CONTROLS ARE TO BE DESIGNED AND DOCUMENTED BY A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC) ENGAGED BY THE CONTRACTOR AND APPROVED AS PART OF THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SUCH CONTROLS SHALL BE IN ACCORDANCE WITH THE RELEVANT REQUIREMENTS IN THE LATEST VERSION OF THE MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION GUIDELINE (LANDCOM).



Construction Notes

- Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
- Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
- Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
- Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
- Join sections of fabric at a support post with a 150-mm overlap.
- Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

SEDIMENT FENCE

SD 6-8

Construction Notes

- Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
- Construct on the contour as low, flat, elongated mounds.
- Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
- Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
- Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

STOCKPILES

SD 4-1

G	ISSUE FOR COORDINATION	11-10-24
WIP	ISSUE FOR COORDINATION	14-08-24
F	ISSUED FOR SSD APPROVAL	31-07-24
A	ISSUED FOR SSD APPROVAL	23-05-23
Issue	Description	Date

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Scales	NTS	Drawn	NT
		Designed	BL
Grid	GDA2020	Checked	CB
Height Datum	AHD	Approved	

Project	BURRA PARK DEVELOPMENT
Title	LOT 4.2 (WH 03) EROSION AND SEDIMENT CONTROL DETAILS SHEET 1

Civil Engineers and Project Managers		
Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL NOT FOR CONSTRUCTION	A1
Project - Drawing No.	22-993-C1330	Issue G

EROSION AND SEDIMENT CONTROL

NOTES

PRELIMINARY BASIN SIZING - TYPE A SEDIMENT BASIN SIZING
(REFER HENRY & HYMAS CIVIL DRAWINGS FOR DETAILS)

THE SEDIMENT BASIN SHALL BE CONSTRUCTED ON A RATE PER HECTARE BASIS AND HAS BEEN IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) APPENDIX B SEDIMENT DESIGN AND OPERATION (REVISION - JUNE 2018). THE DISTURBED AREA WITHIN THIS CATCHMENT AT ANY ONE TIME SHOULD BE LIMITED TO AN AREA FOR WHICH EACH SEDIMENT BASIN HAS BEEN DESIGNED FOR. IF REQUIRED, EACH BASIN SHALL BE RE-SIZED IN ACCORDANCE WITH THE TABLE ADJACENT.

VALUES PRESENTED IN THE HENRY & HYMAS CIVIL DRAWINGS ARE BASED ON FULL SITE AREA. SUBJECT TO FUTURE DETAIL DESIGN. DISTURBED SITE AREAS (AND THUS BASIN AREAS) MAY CHANGE OR BE DISTRIBUTED TO MULTIPLE BASINS AS SITE CONDITIONS DICTATE. A REVIEW OF SIZING (AND UPSIZING) TO BE UNDERTAKEN DURING DETAILED DESIGN PHASE USING THE INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) APPENDIX B SEDIMENT DESIGN AND OPERATION (REVISION - JUNE 2018). DETAILED DESIGN OF BASIN TO BE UNDERTAKEN WHEN SITE CONDITIONS, SOIL CONDITIONS AND FINAL CONTRIBUTING CATCHMENTS ARE KNOWN. FURTHERMORE, SITE CONDITIONS MAY VARY FROM THOSE DETAILED ABOVE IN THE TABLE ADJACENT.

JAR TESTING: IN ACCORDANCE WITH SECTION B3 OF THE INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) APPENDIX B SEDIMENT DESIGN AND OPERATION (REVISION - JUNE 2018) IS REQUIRED IN ORDER TO DETERMINE THE CHEMICAL DOSING RATES OF SEDIMENT. IT IS RECOMMENDED THAT THIS ANALYSIS IS UNDERTAKEN PRIOR TO BASIN CONSTRUCTION AS THE FINDINGS MAY POTENTIALLY IMPACT THE SEDIMENT AND EROSION CONTROL (BASIN SIZING ALSO) ADOPTED. IT SHOULD BE NOTED THAT THE MOST SUITABLE FLOCCULANT AND/OR COAGULANT IS LIKELY TO VARY WITH SOIL TYPE. CONSEQUENTLY, THERE IS A NEED TO REVIEW THE EFFICACY OF CERTAIN PRODUCTS OVER TIME AS SOIL CHARACTERISTICS CHANGE DURING THE VARIOUS STAGES OF CONSTRUCTION.

BASIN MANAGEMENT

IN ACCORDANCE WITH THE BLUE BOOK, THE SEDIMENT BASINS WILL BE MANAGED AND MAINTAINED UNTIL THE CONTRIBUTING CATCHMENT UPSTREAM IS COMPLETED AND FULLY STABILISED ON MORE THAN 90% OF THE TOTAL AREA. A GENERIC BASIN MAINTENANCE STRATEGY IS DETAILED BELOW - NOTE THIS STRATEGY WILL NEED TO BE TAILORED TO SITE CONDITIONS AND PARAMETERS:

- AN AUTOMATED SYSTEM OF FLOCCULANT DOSING IS REQUIRED AND A SUITABLE SUPPLY OF FLOCCULANT/COAGULANT, DOSER AND SUPPLY OF FLOCCULANT TO BE PROVIDED ON LEVEL PAD 4MX4M WITHIN 10M OF DOSING POINT. SELECTION OF AUTOMATIC DOSING SYSTEM IS BASED ON-SITE CHARACTERISTIC AND JAR TESTING OF PRODUCTS ON-SITE SPECIFIC TURBID WATER. AUTOMATIC DOSING SYSTEM MUST ACHIEVE PERFORMANCE TARGETS DETAILED BELOW.
- FURTHER DETAILS FOR BASIN MANAGEMENT ARE PROVIDED IN CHAPTER 6 AND APPENDIX E4 OF LONDON'S 'BLUE BOOK'.
- FURTHER DETAILED BASIN MANAGEMENT ARE PROVIDED IN IECA (INTERNATIONAL EROSION CONTROL ASSOCIATION) (2008) APPENDIX B SEDIMENT DESIGN AND OPERATION (REVISION - JUNE 2018), INTERNATIONAL EROSION CONTROL ASSOCIATION AUSTRALASIA.
- BASIN PERFORMANCE REQUIREMENTS AS FOLLOWS: AT LEAST 80% OF THE AVERAGE ANNUAL RUNOFF VOLUME (I.E. 80% HYDROLOGICAL EFFECTIVENESS) TO 50 MG/L TSS OR LESS, AND PH IN THE RANGE 6.5-8.5.
- JAR TESTING IS TO BE UNDERTAKEN TO SELECT THE APPROPRIATE COAGULANTS AND/OR FLOCCULANTS ALONG WITH DETERMINING THEIR OPTIMUM DOSE RATES. JAR TESTING IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE RECOMMENDATIONS AND TESTING PROCEDURE SPECIFIED IN THE CHAPTER 5 OF THE INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) CHEMICAL COAGULANTS AND FLOCCULANTS FACT SHEET (IECA 2018).
- TYPE A AND B BASINS REQUIRE A FAST ACTING COAGULANT AND FLOCCULANT TO PERFORM BASED ON THE JAR TESTING. A FACTOR OF SAFETY (IN ACCORDANCE WITH ABOVE GUIDELINES) SHOULD BE APPLIED TO ALLOW FOR THE DIFFERENT SETTLING TIMES EXPERIENCED BY BASINS DUE TO DOSING, MIXING, FLOW VELOCITY AND WIND ACTION.
- REFER EROSION AND SEDIMENT CONTROL PLAN (ESCP PLAN) BY HENRY AND HYMAS, REFERENCE 240518.E&SC REV 1.0 FOR GENERIC BASIN MANAGEMENT AND OPERATION DETAILS.

BASIN MANAGEMENT (CONT.)

- MAINTENANCE AND OPERATING PROCEDURES REPORT TO BE PREPARED AT DETAIL DESIGN PHASE. REPORT TO INCLUDE THE FOLLOWING:
- DECANT WATER QUALITY OBJECTIVES
- DESCRIPTION OF PROPOSED CHEMICAL TREATMENT OF THE BASIN, INCLUDING MINIMUM JAR TESTING PERFORMANCE REQUIREMENTS
- PERFORMANCE ASSESSMENT PROCEDURES
- GUIDANCE ON CORRECTIVE MEASURES BASED ON WATER QUALITY MONITORING OUTCOMES
- DESCRIPTION OF DE-WATERING TRIGGERS, INCLUDING TRIGGERS FOR TEMPORARY SHUT-OFF OF THE DECANT SYSTEM IN THE EVENT OF POOR WATER QUALITY
- DESCRIPTION OF DE-SILTING TRIGGERS
- DESCRIPTION OF THOSE CIRCUMSTANCES AND/OR WEATHER CONDITIONS THAT WOULD TRIGGER DE-WATERING OF THE BASIN PRIOR TO AN IMMINENT STORM.
- MAINTENANCE PROCEDURES AND PROTOCOLS INCLUDING DE-SILTING METHOD AND FREQUENCIES.

THE LONG TERM GROUND COVER FACTORS FOR THE CONSTRUCTION WORKS IS NOT TO EXCEED THE FOLLOWING LIMITS:

LAND	MAXIMUM C-FACTOR	REMARKS
WATERWAYS AND OTHER AREAS OF CONCENTRATED FLOWS, POST CONSTRUCTION	0.05	APPLIES AFTER TEN WORKING DAYS OF COMPLETION OF FORMATION AND BEFORE CONCENTRATED FLOWS ARE APPLIED. FOOT AND VEHICULAR TRAFFIC IS PROHIBITED IN THIS AREA AND 70% GROUND COVER IS REQUIRED.
STOCKPILES, POST CONSTRUCTION	0.10	APPLIES AFTER TEN WORKING DAYS FROM COMPLETION OF FORMATION. 60% GROUND COVER IS REQUIRED.
ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION.	0.15	APPLIES AFTER 20 DAYS OF INACTIVITY, EVEN THOUGH WORKS MAY BE INCOMPLETE. 60% GROUND COVER IS REQUIRED.

REFERENCE PARAMETERS - FOR CALCULATION OF SOIL LOSS
(NOT USED IN ABOVE CALCULATIONS)

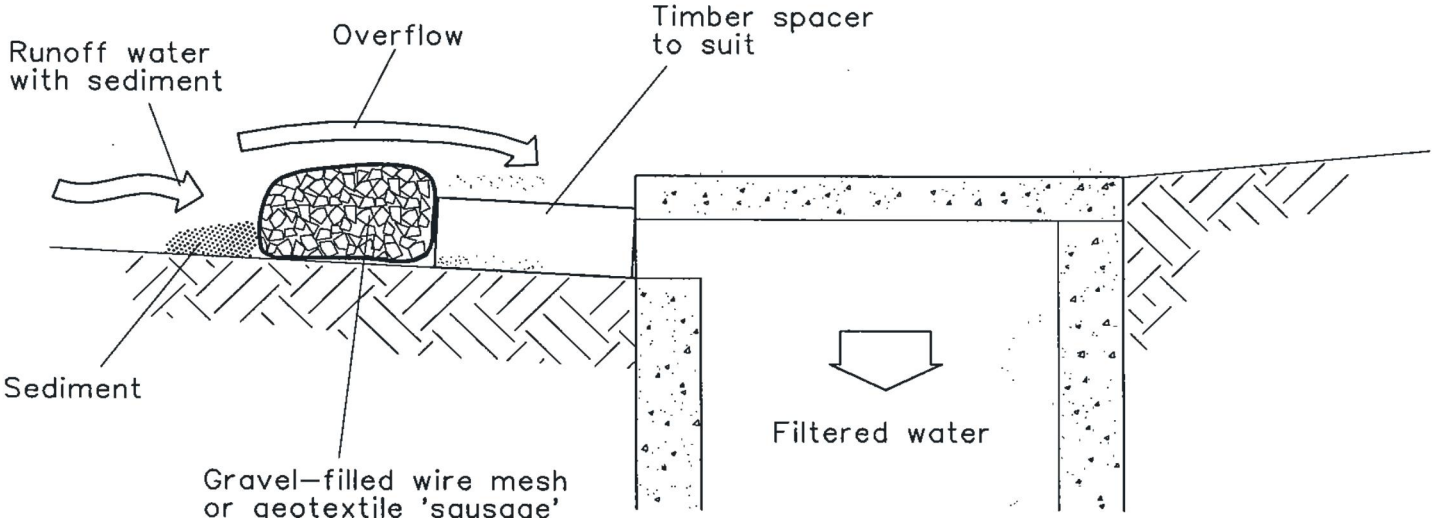
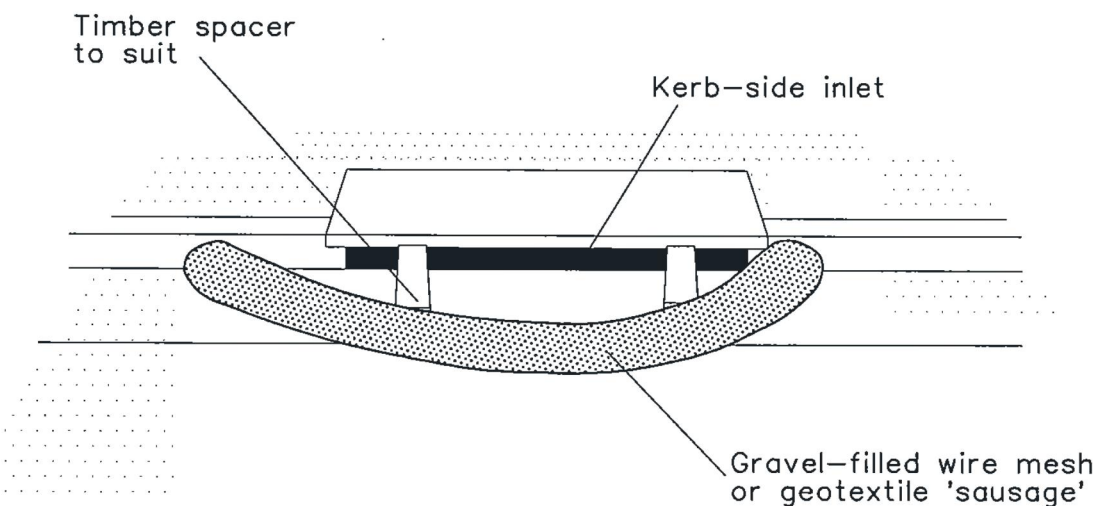
SEDIMENT BASIN SIZING TYPE D SOILS	
VOLUMETRIC RUNOFF COEFFICIENT, CV	6.4
80TH PERCENTILE 5 DAY TOTAL RAINFALL DEPTH, R	35mm
CATCHMENT AREA, A	VARIES
SETTLING ZONE VOLUME (PER HECTARE) 10 CV A R	124 x A
DISTURBED CATCHMENT AREA	VARIES
R K L S P C	143 x Ls
SEDIMENT ZONE VOLUME (0.17 A (R K L S P C))/1.3	18.7 x Ls
TOTAL SEDIMENT BASIN VOLUME REQUIRED :	REFER ADJACENT TABLE

* (LANDCOM MANAGING URBAN STORMWATER MANUAL REFERENCE)

2. THE FOLLOWING DESIGN PARAMETERS HAVE BEEN ASSESSED FOR THE SITE:

CONSTRAINT	VALUE	(SOURCE)*
RAINFALL EROSIVITY (R-FACTOR)	2200	APPENDIX B - MAP 10
LENGTH/SLOPE GRADIENT FACTOR, LS	VARIOUS	APPENDIX A - TABLE A1
SOIL ERODIBILITY (K-FACTOR)	0.05	(TABLE C19)
EROSION CONTROL PRACTICE FACTOR (P-FACTOR)	1.3	APPENDIX A - TABLE A2
COVER FACTOR (C-FACTOR)	1.0 (DURING EARTHWORKS)	APPENDIX A - FIGURE A5
CALCULATED SOIL LOSS, A (RUSLE EQUATION)	VARIES	A = R K L S P C
SOIL HYDROLOGIC GROUP	GROUP D	APPENDIX C TABLE 19
85TH PERCENTILE 5-DAY RAINFALL EVENT	35mm	TABLE 6.3A

* (LANDCOM MANAGING URBAN STORMWATER MANUAL REFERENCE)



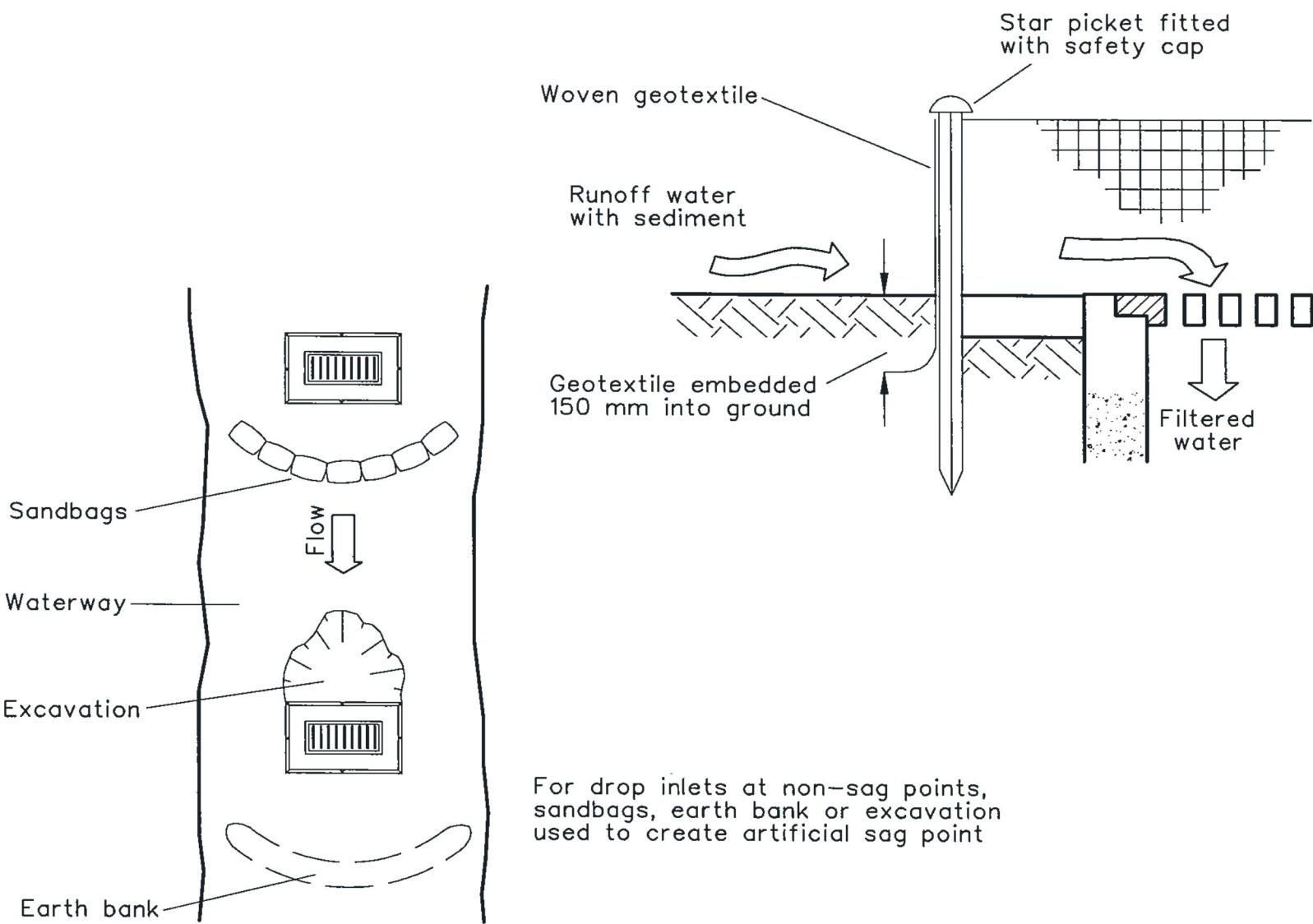
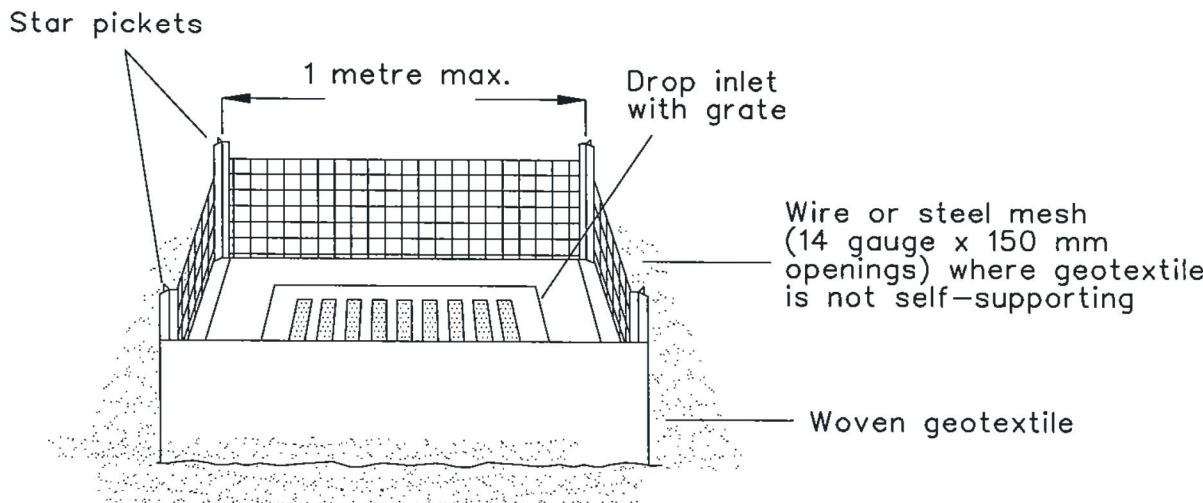
NOTE: This practice only to be used where specified in an approved SWMP/ESCP.

Construction Notes

1. Install filters to kerb inlets only at sag points.
2. Fabricate a sleeve made from geotextile or wire mesh longer than the length of the inlet pit and fill it with 25 mm to 50 mm gravel.
3. Form an elliptical cross-section about 150 mm high x 400 mm wide.
4. Place the filter at the opening leaving at least a 100-mm space between it and the kerb inlet. Maintain the opening with spacer blocks.
5. Form a seal with the kerb to prevent sediment bypassing the filter.
6. Sandbags filled with gravel can substitute for the mesh or geotextile providing they are placed so that they firmly abut each other and sediment-laden waters cannot pass between.

MESH AND GRAVEL INLET FILTER

SD 6-11



Construction Notes

1. Fabricate a sediment barrier made from geotextile or straw bales.
2. Follow Standard Drawing 6-7 and Standard Drawing 6-8 for installation procedures for the straw bales or geofabric. Reduce the picket spacing to 1 metre centres.
3. In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
4. Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

GEOTEXTILE INLET FILTER

SD 6-12

G	ISSUE FOR COORDINATION	11-10-24
WIP	ISSUE FOR COORDINATION	14-08-24
F	ISSUED FOR SSD APPROVAL	31-07-24
A	ISSUED FOR SSD APPROVAL	23-05-23
Issue	Description	Date

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L



Scales	NTS	Drawn	NT
		Designed	BL
Grid	GDA2020	Checked	CB
Height Datum	AHD	Approved	



Project	BURRA PARK DEVELOPMENT
Title	LOT 4.2 (WH 03) EROSION AND SEDIMENT CONTROL DETAILS SHEET 2

Civil Engineers and Project Managers	
Status	FOR APPROVAL NOT FOR CONSTRUCTION
Project - Drawing No.	22-993-C1331
Issue	A1 G

