

BURRA PARK

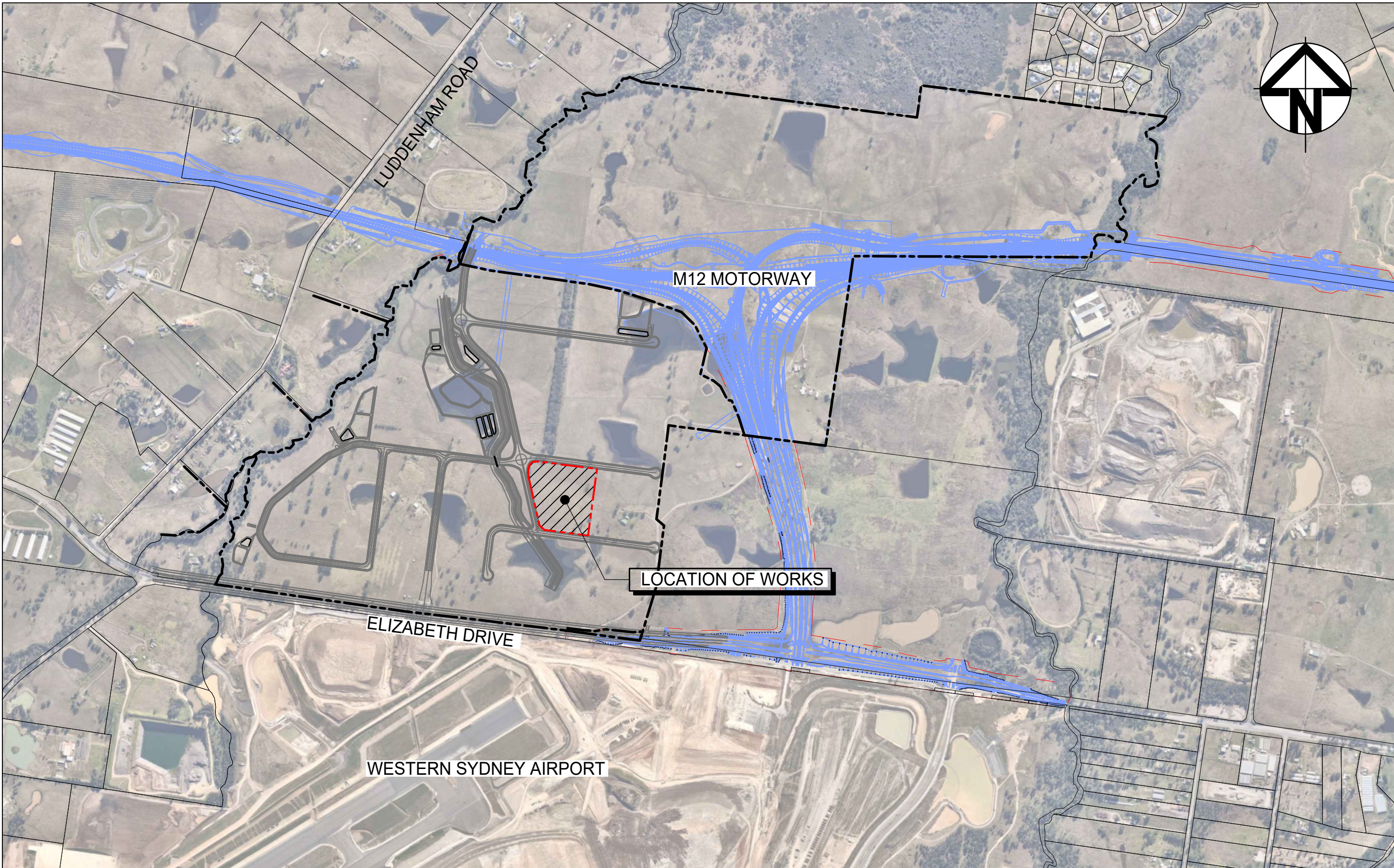
ELIZABETH DRIVE, BADGERYS CREEK

LOT 4.1 (WAREHOUSE 4)

CIVIL WORKS PACKAGE

SSDA - 70818708

DRAWING No.	DRAWING LIST
22-993-C1400	LOT 4.1 (WH 04) COVER SHEET, DRAWING LIST AND LOCALITY PLAN
22-993-C1401	LOT 4.1 (WH 04) GENERAL NOTES
22-993-C1402	LOT 4.1 (WH 04) GENERAL ARRANGEMENT
22-993-C1405	LOT 4.1 (WH 04) SITE SECTIONS
22-993-C1406	LOT 4.1 (WH 04) BULK EARTHWORKS CUT/FILL PLAN
22-993-C1411	LOT 4.1 (WH 04) SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 1
22-993-C1412	LOT 4.1 (WH 04) SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 2
22-993-C1413	LOT 4.1 (WH 04) SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 3
22-993-C1414	LOT 4.1 (WH 04) SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 4
22-993-C1418	LOT 4.1 (WH 04) STORMWATER DRAINAGE DETAILS
22-993-C1420	LOT 4.1 (WH 04) PAVEMENT PLAN SHEET 1
22-993-C1440	WSUD CATCHMENT PLAN
SUPPLEMENTARY DRAWING LIST	
240518_DA_C226	BASIN AB PLAN AND LONG SECTION
240518_DA_C251	MASTER PLAN POST-DEVELOPMENT CATCHMENT PLAN
240518_DA_C252	WATER QUALITY, REUSE AND DETENTION - LOT SUMMARY
240518_DA_SE02	SEDIMENT AND EROSION CONTROL PLAN SHEET 2 OF 4
240518_DA_SE06	TYPE A BASIN TYPICAL PLAN, SECTION AND DETAILS
240518_DA_SE07	TYPE A BASIN SIZING TABLE AND NOTES
240518_DA_BE30	TYPICAL EARTHWORKS SECTIONS SHEET 1 OF 2
240518_DA_BE31	TYPICAL EARTHWORKS SECTIONS SHEET 2 OF 2



LOCALITY PLAN
NTS

			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	Client 	Scales NTS Grid GDA2020 Height Datum AHD	Drawn NT Designed BL Checked CB Approved	Project BURRA PARK DEVELOPMENT	Civil Engineers and Project Managers			
F	ISSUED FOR SSD APPROVAL	20-07-26							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		
E	ISSUED FOR SSD APPROVAL	11-10-24							Status FOR APPROVAL NOT FOR CONSTRUCTION		A1
D	ISSUED FOR UPDATED SSD APPROVAL	14-08-24									
C	ISSUED FOR SSD APPROVAL	23-05-23									
B	FOR COORDINATION	21-04-22									
A	ISSUED FOR SSD APPROVAL	10-10-22									
Issue	Description	Date						Project - Drawing No. 22-993-C1400		Issue F	

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.

SHOULD 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. SURV 147/NOTES TREE 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 Fc 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 & 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.I.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 ON MIN. 100mm GRANULAR BASE COURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 S.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 POINTS 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 ON ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOOR 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 ALLOTMENT 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 RECURRENTANCE INTERVAL:
 - 1:100 YEARS = MAJOR STORM (OVERLAND FLOW)
 - 1:20 YEARS = MINOR STORM (PIPED NETWORK)
- (B) RAINFALL INTENSITIES:
 - TIME OF CONCENTRATION'S 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 FRC PIPES MAY BE USED, SUBJECT TO THE APPROVAL OF PENNTH CITY COUNCIL.

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

6. PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REINFORCEMENT OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL, COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1299 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 & L

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 DWELLING 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.

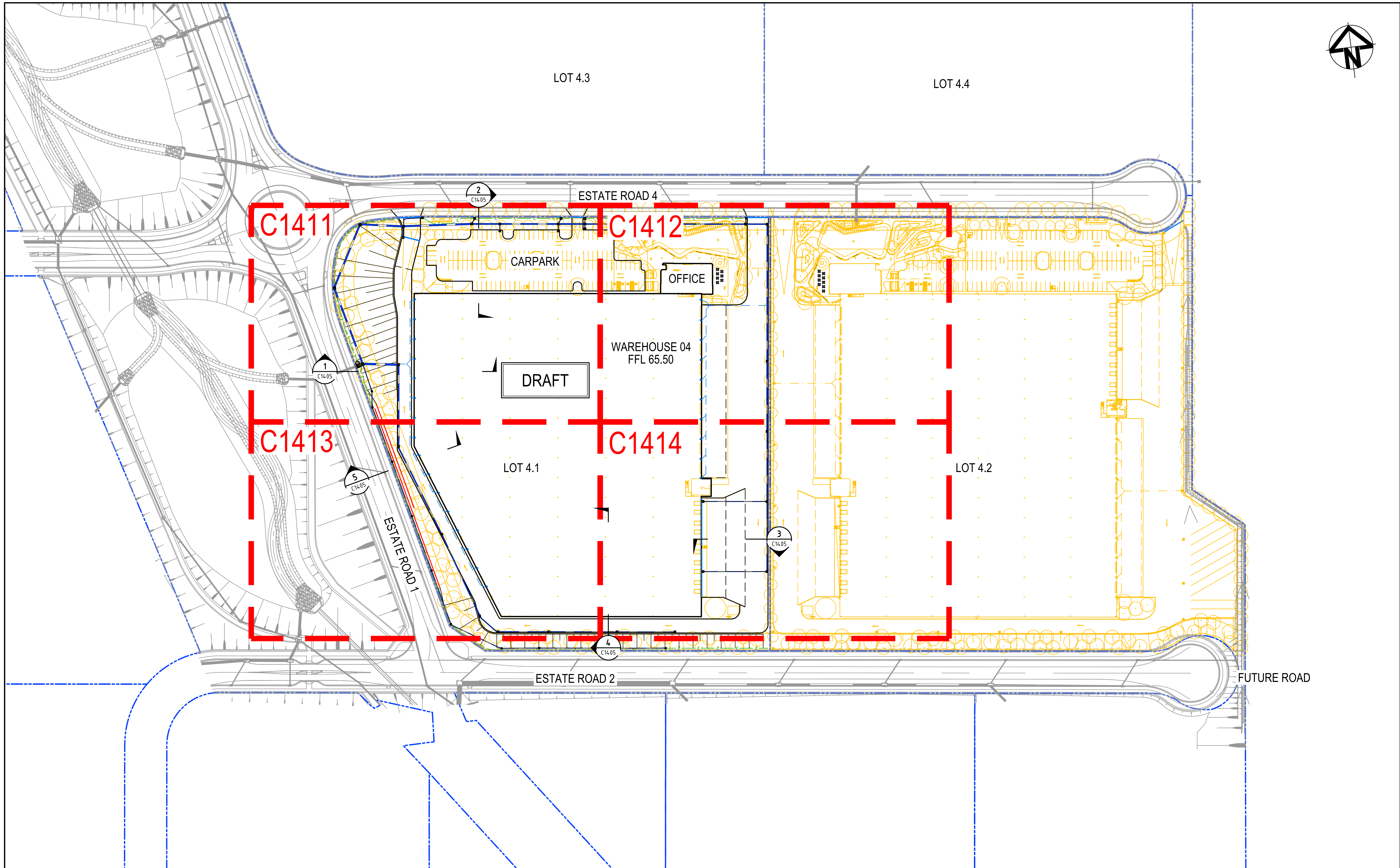
CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

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

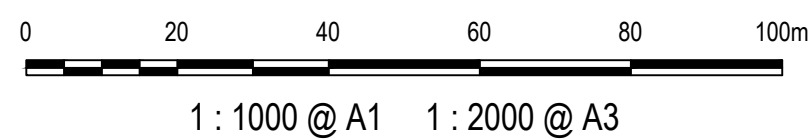
CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

1. STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND STOCKPILE 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						
F	ISSUED FOR SSD APPROVAL	20-07-26					Grid	GDA2020				Checked	CB	
E	ISSUED FOR SSD APPROVAL	11-10-24				Height Datum	AHD	Approved		Title	LOT 4.1 (WH 04) GENERAL NOTES	Status	FOR APPROVAL NOT FOR CONSTRUCTION	A1
D	ISSUED FOR UPDATED SSD APPROVAL	14-08-24										Project - Drawing No.	Issue	
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H	ISSUED FOR SSD APPROVAL	20-07-26
G	ISSUED FOR SSD APPROVAL	24-10-24
F	ISSUED FOR SSD APPROVAL	11-10-24
F	ISSUED FOR UPDATED SSD APPROVAL	14-08-24
E	ISSUED FOR SSD APPROVAL	23-05-23
D	FOR COORDINATION	21-04-22
C	ISSUED FOR SSD APPROVAL	10-10-22
B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD APPROVAL	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 4.1 (WH 04)
GENERAL ARRANGEMENT

Civil Engineers and Project Managers

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Status

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NOT FOR CONSTRUCTION

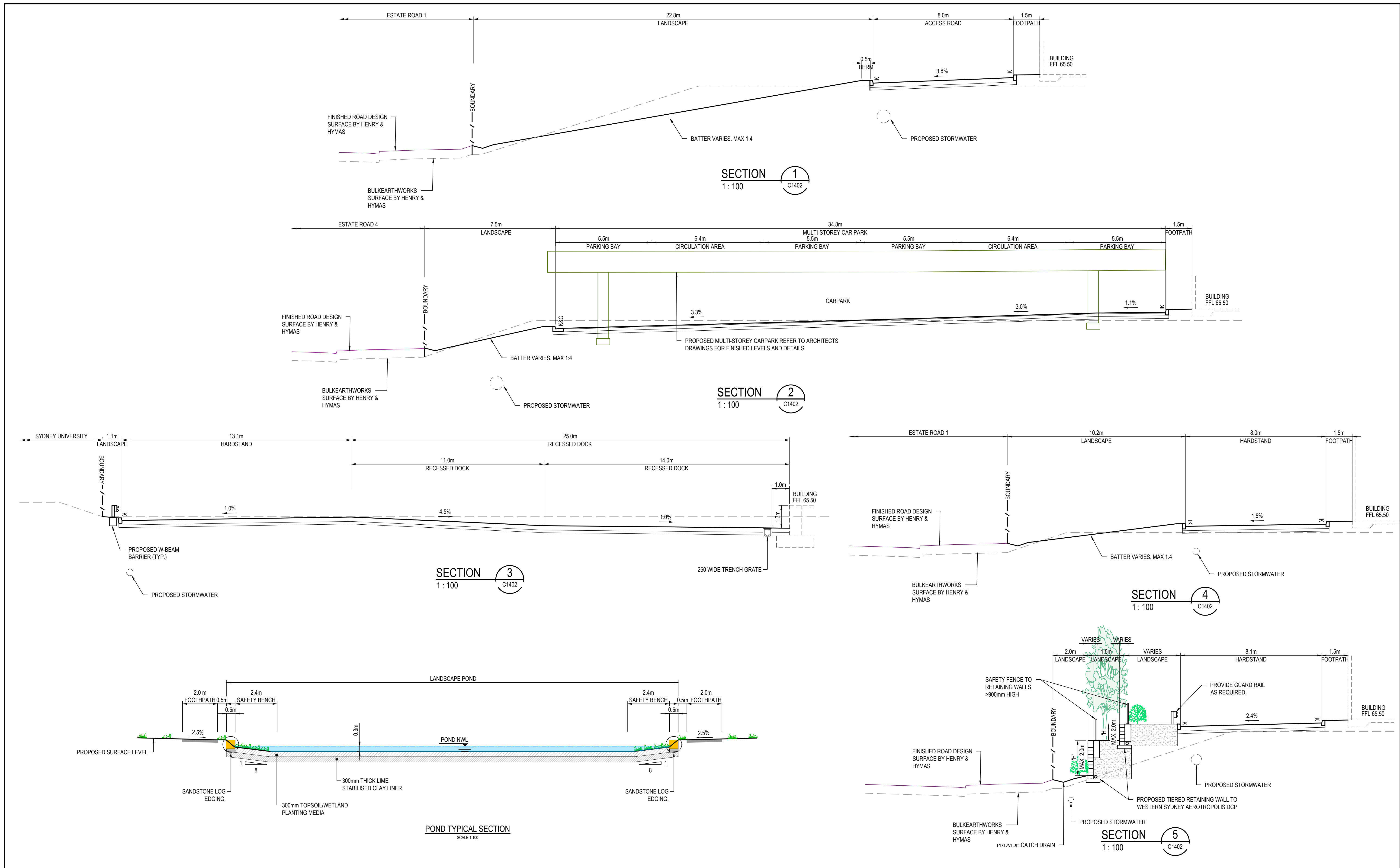
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22-993-C1402

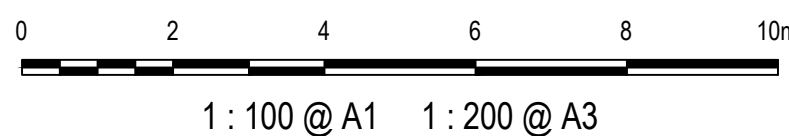
Issue

H

A1



I	ISSUED FOR SSD APPROVAL	20-07-26
H	ISSUED FOR SSD APPROVAL	25-03-26
G	ISSUED FOR SSD APPROVAL	11-10-24
F	ISSUED FOR UPDATED SSD APPROVAL	14-08-24
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B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD APPROVAL	09-09-22
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Client



Scales

1:100 @ A1

Grid GDA2020

Height Datum AHD

Drawn NT

Designed BL

Checked CB

Approved



Project

BURRA PARK DEVELOPMENT

LOT 4.1 (WH 04) SITE SECTIONS

Civil Engineers and Project Managers



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Status

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Project - Drawing No.
22-993-C1405

A1

Issue
I

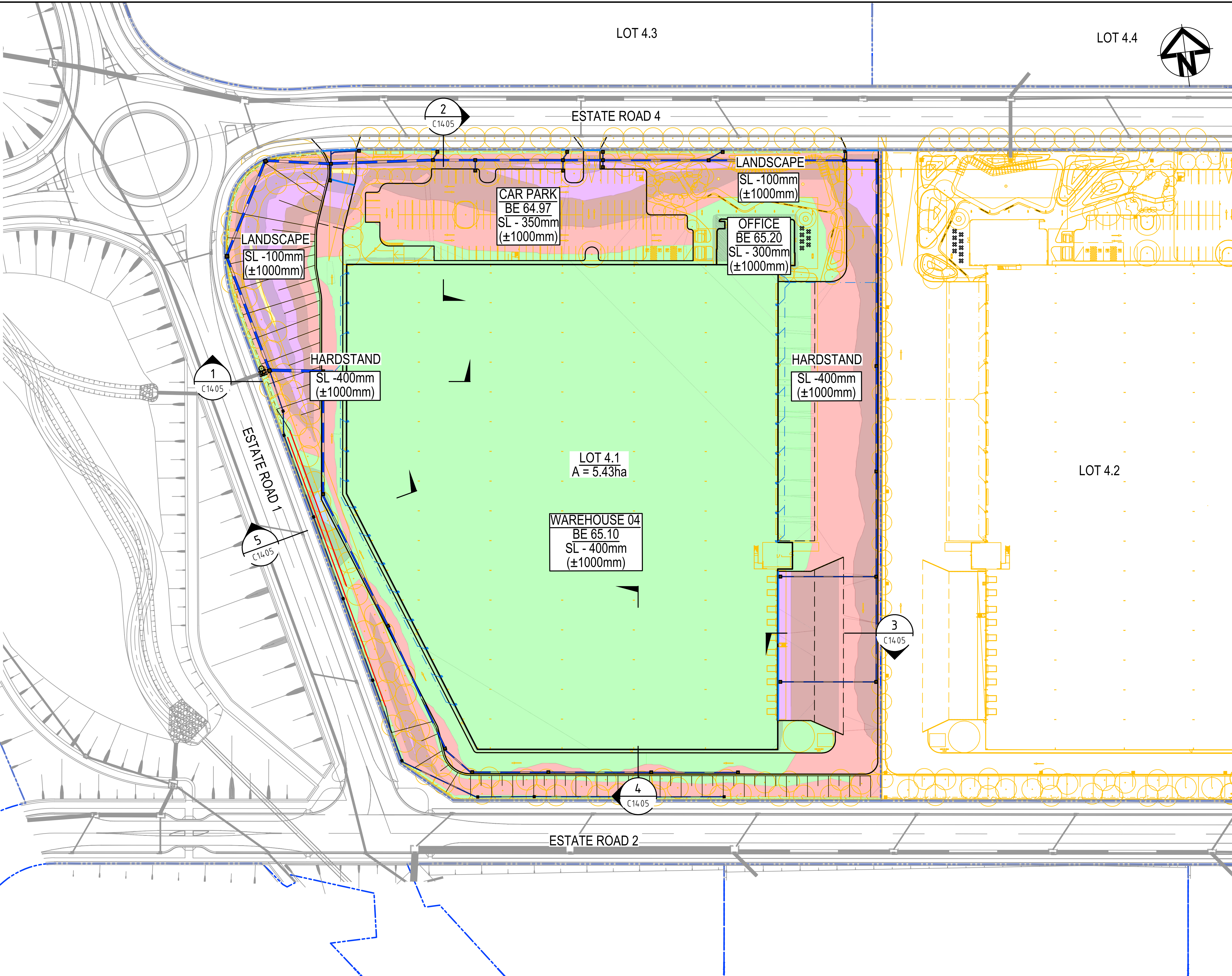
CUT/FILL DEPTH RANGE LEGEND		
Lower_value	Upper_value	Colour
-2.5	to -2.0	m
-2.0	to -1.5	m
-1.5	to -1.0	m
-1.0	to -0.5	m
-0.5	to 0.0	m
0.0	to 0.5	m
0.5	to 1.0	m
1.0	to 1.5	m
1.5	to 2.0	m
2.0	to 2.5	m

EARTHWORKS VOLUMES

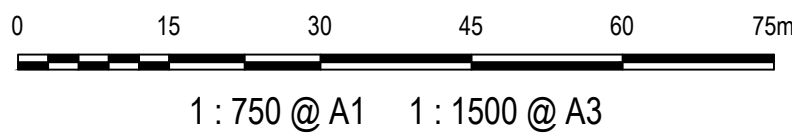
A	B	C=A+B
NET CUT (cu.m)	NET FILL (cu.m)	BALANCE (cu.m)
-10,356	8,669	-1,687 (EXPORT)

NOTES

- EARTHWORKS VOLUMES WERE CALCULATED BETWEEN THE DESIGN EARTHWORKS SURFACE AND THE ESTATE VENDOR'S EARTHWORKS SURFACE.
- IT IS ASSUMED THAT ON-LOT EARTHWORKS WILL COMMENCE IMMEDIATELY AFTER COMPLETION OF THE ESTATE VENDOR'S EARTHWORKS. NO SITE STRIPPING NECESSARY.
- THE FOLLOWING PAVEMENT THICKNESS HAVE BEEN ASSUMED:
 - 400mm THICK WAREHOUSE
 - 300mm THICK OFFICE
 - 350mm THICK CARPARK
 - 400mm THICK HARDSTAND
 - 100mm THICK LANDSCAPE
- 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
- ALL LEVELS ARE SUBJECT TO FURTHER COORDINATION WITH THE ESTATE WORKS. ALLOW FOR ±1000mm



Issue	Description	Date
H	ISSUED FOR SSD APPROVAL	20-07-26
G	UPDATED TO VENDOR EARTHWORKS	12-01-26
F	ISSUED FOR SSD APPROVAL	24-10-24
E	ISSUED FOR SSD APPROVAL	11-10-24
D	ISSUED FOR UPDATED SSD APPROVAL	14-08-24
C	ISSUED FOR SSD APPROVAL	23-05-23
B	FOR COORDINATION	21-04-22
A	ISSUED FOR SSD APPROVAL	10-10-22



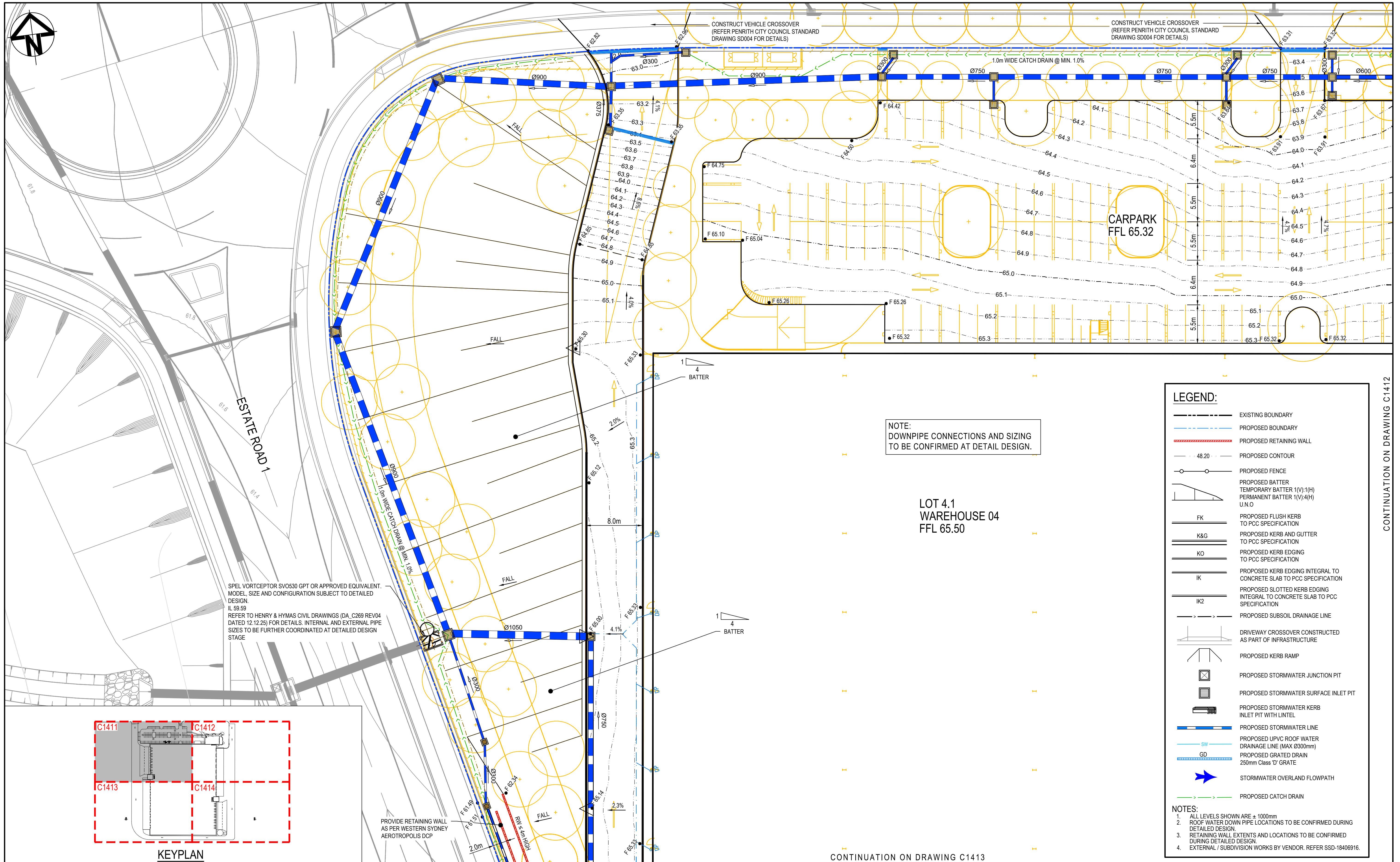
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Scales	1:750 @ A1	Drawn	NT
		Designed	BL
Grid	GDA2020	Checked	CB
Height Datum	AHD	Approved	
GDA2020			

Project	BURRA PARK DEVELOPMENT
Title	LOT 4.1 (WH 04) 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-C1408	Issue H



I	ISSUED FOR SSD APPROVAL	20-07-26
H	ISSUED FOR SSD APPROVAL	24-10-24
G	ISSUED FOR SSD APPROVAL	11-10-24
F	ISSUED FOR UPDATED SSD APPROVAL	14-08-24
E	ISSUED FOR SSD APPROVAL	23-05-23
D	FOR COORDINATION	21-04-22
C	ISSUED FOR SSD APPROVAL	10-10-22
B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD APPROVAL	09-09-22
Issue	Description	Date

0	5	10	15	20
1: 250 @ A1	1: 500 @ A3			

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Client

DHL

Scales

1:250 @ A1

Grid GDA2020

Height Datum AHD

Drawn NT

Designed BL

Checked CB

Approved

GDA2020

Project

BURRA PARK
DEVELOPMENT

Title

LOT 4.1 (WH 04)
SITEWORKS AND
STORMWATER DRAINAGE
PLAN SHEET 1

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

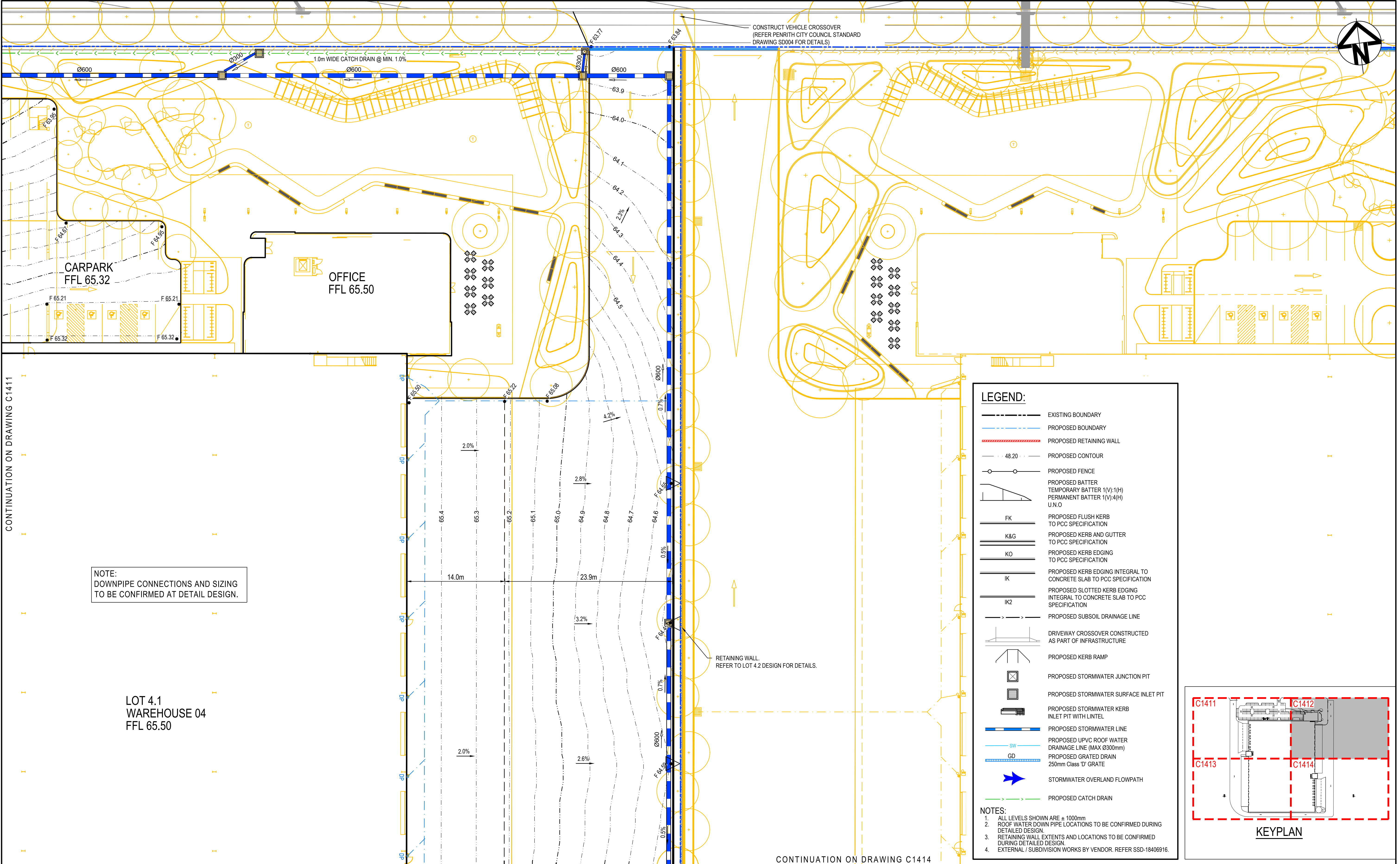
FOR APPROVAL
NOT FOR CONSTRUCTION

Project - Drawing No.

22-993-C1411

Issue

I

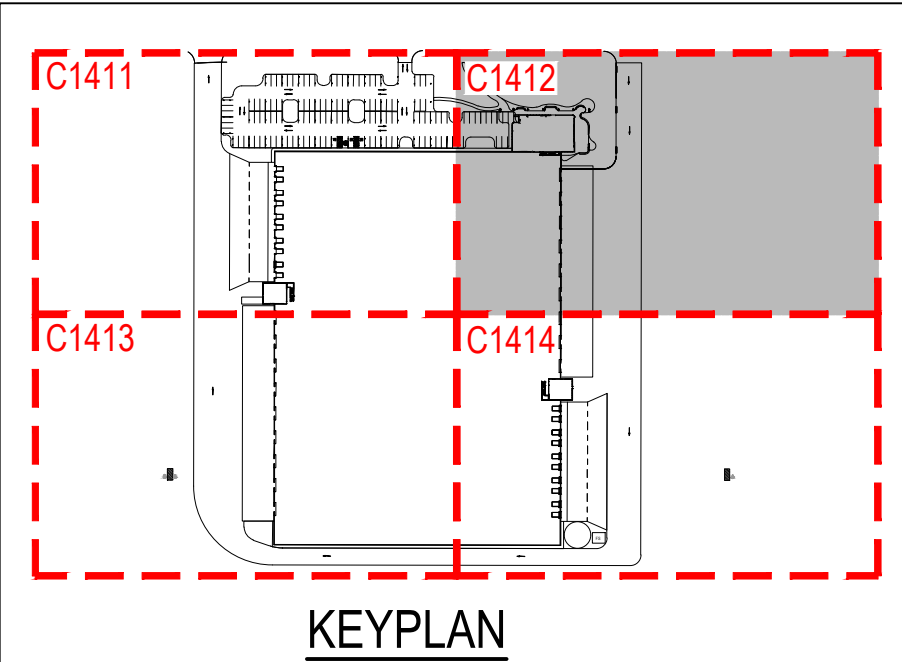


LEGEND:

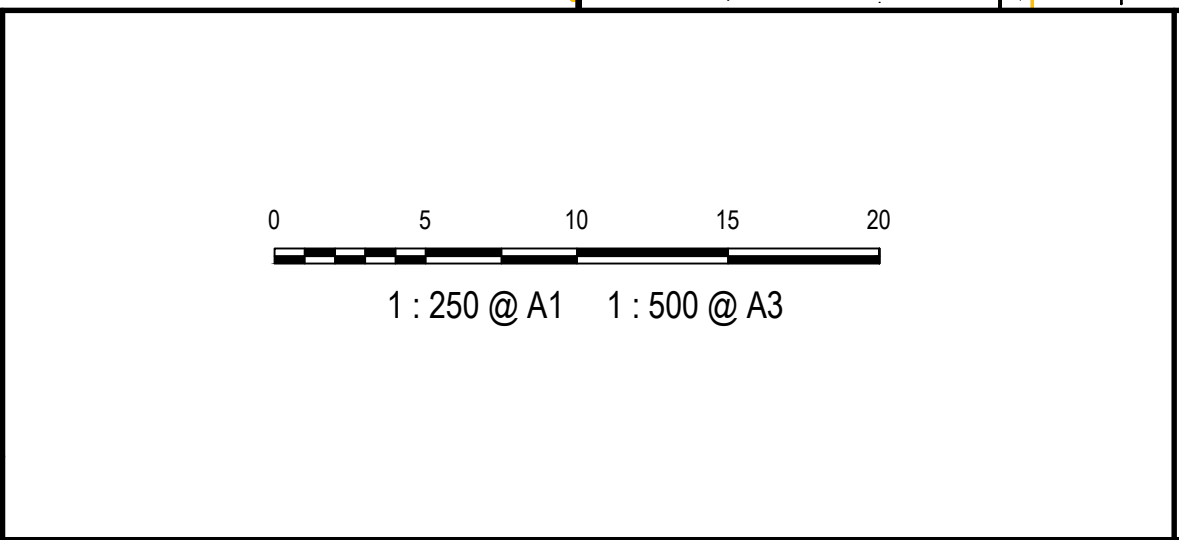
- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED RETAINING WALL
- PROPOSED CONTOUR
- PROPOSED FENCE
- PROPOSED BATTER
TEMPORARY BATTER 1(V):1(H)
PERMANENT BATTER 1(V):4(H)
U.N.O
- PROPOSED FLUSH KERB TO PCC SPECIFICATION
- PROPOSED KERB AND GUTTER TO PCC SPECIFICATION
- PROPOSED KERB EDGING TO PCC 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 ± 100mm
- 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.



H	ISSUED FOR SSD APPROVAL	20-07-26
G	ISSUED FOR SSD APPROVAL	11-10-24
F	ISSUED FOR UPDATED SSD APPROVAL	14-08-24
E	ISSUED FOR SSD APPROVAL	23-05-23
D	FOR COORDINATION	21-04-22
C	ISSUED FOR SSD APPROVAL	10-10-22
B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD APPROVAL	09-09-22
Issue	Description	Date



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Client

Scales
1:250 @ A1

Grid
GDA2020

Height Datum
AHD

Drawn
NT

Designed
BL

Checked
CB

Approved

GDA2020

Project
BURRA PARK DEVELOPMENT

Title
LOT 4.1 (WH 04) SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 2

Civil Engineers and Project Managers

at&l

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North Sydney NSW 2060
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www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT FOR CONSTRUCTION

Project - Drawing No.
22-993-C1412

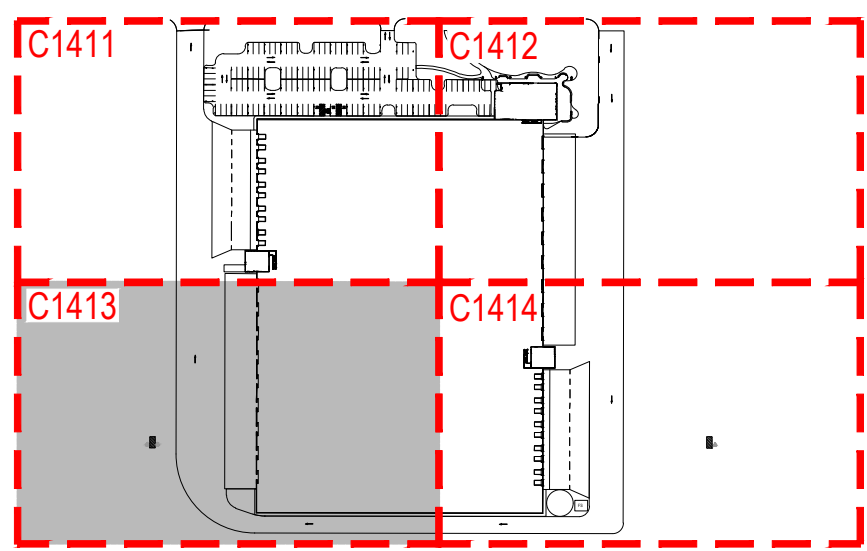
Issue
H

LEGEND:

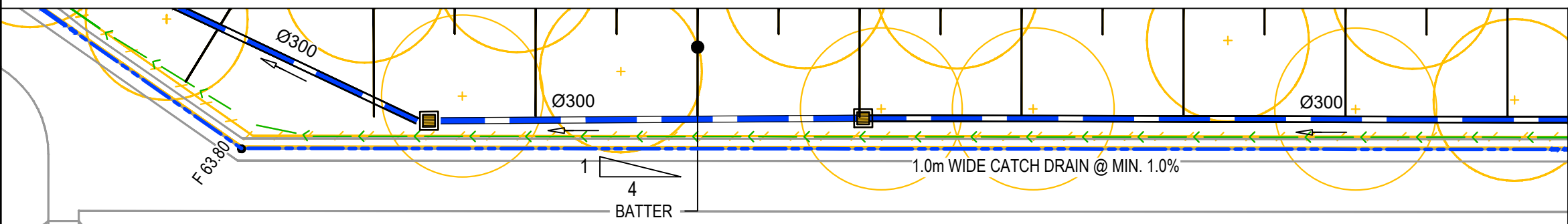
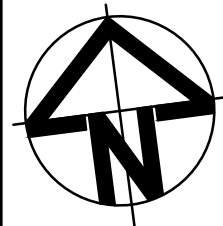
- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED RETAINING WALL
- PROPOSED CONTOUR
- PROPOSED FENCE
- PROPOSED BATTER
- TEMPORARY BATTER 1(V):1(H)
- PERMANENT BATTER 1(V):4(H)
- U.N.O
- FK PROPOSED FLUSH KERB TO PCC SPECIFICATION
- K&G PROPOSED KERB AND GUTTER TO PCC SPECIFICATION
- KO PROPOSED KERB EDGING TO PCC SPECIFICATION
- IK PROPOSED KERB EDGING INTEGRAL TO CONCRETE SLAB TO PCC SPECIFICATION
- IK2 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 ± 1000mm
- 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.

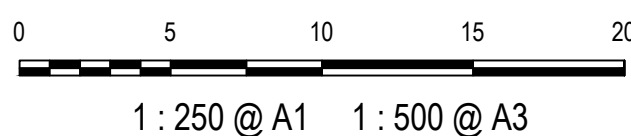


KEYPLAN



INSET A
1 : 250

I	ISSUED FOR SSD APPROVAL	20-07-26
H	ISSUED FOR SSD APPROVAL	24-10-24
G	ISSUED FOR SSD APPROVAL	11-10-24
F	ISSUED FOR UPDATED SSD APPROVAL	14-08-24
E	ISSUED FOR SSD APPROVAL	23-05-23
D	FOR COORDINATION	21-04-22
C	ISSUED FOR SSD APPROVAL	10-10-22
B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD APPROVAL	09-09-22
Issue	Description	Date



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Client

Client

Scales
1:250 @ A1

Grid
GDA2020

Height Datum
AHD

Drawn
Designed
Checked
Approved

NT
BL
CB

GDA2020

Project
BURRA PARK DEVELOPMENT

Title
LOT 4.1 (WH 04) SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 3

Civil Engineers and Project Managers

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
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info@atl.net.au

Status
FOR APPROVAL
NOT FOR CONSTRUCTION

Project - Drawing No.
22-993-C1413

Issue
I

A1

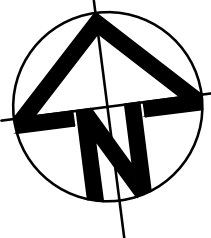
CONTINUATION ON DRAWING C1413

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

LOT 4.1
WAREHOUSE 04
FFL 65.50

DOCK
OFFICE

RETAINING WALL
REFER TO LOT 4.2 DESIGN FOR DETAILS

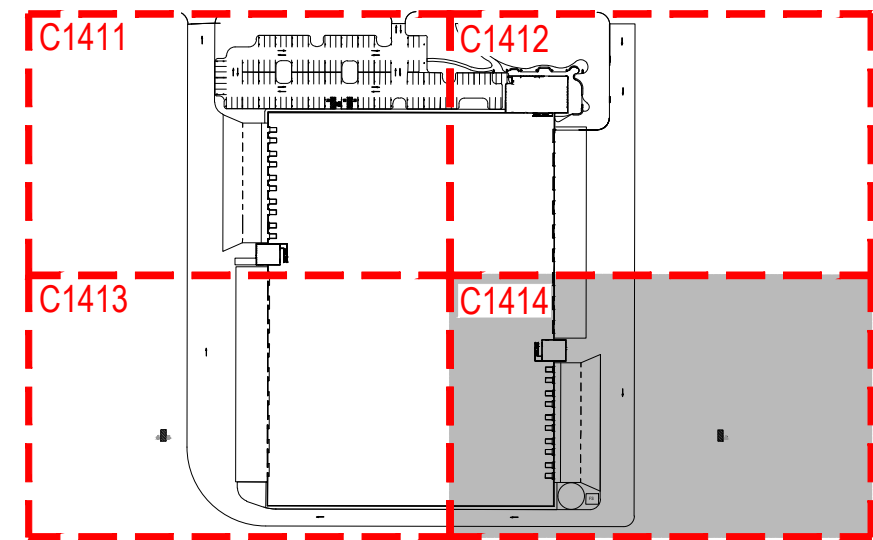


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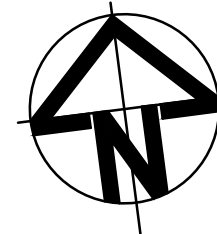
- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED RETAINING WALL
- PROPOSED CONTOUR
- PROPOSED FENCE
- PROPOSED BATTER
TEMPORARY BATTER 1(V):1(H)
PERMANENT BATTER 1(V):4(H)
U.N.O
- FK
PROPOSED FLUSH KERB
TO PCC SPECIFICATION
- K&G
PROPOSED KERB AND GUTTER
TO PCC SPECIFICATION
- KO
PROPOSED KERB EDGING
TO PCC SPECIFICATION
- IK
PROPOSED KERB EDGING INTEGRAL TO
CONCRETE SLAB TO PCC SPECIFICATION
- IK2
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 $\pm 1000\text{mm}$
- 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.

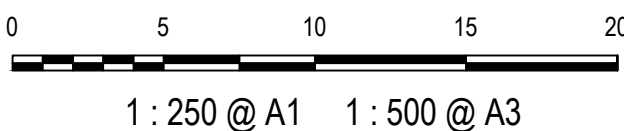


KEYPLAN



INSET B
1 : 250

Issue	Description	Date
H	ISSUED FOR SSD APPROVAL	20-07-26
G	ISSUED FOR SSD APPROVAL	11-10-24
F	ISSUED FOR UPDATED SSD APPROVAL	14-08-24
E	ISSUED FOR SSD APPROVAL	23-05-23
D	FOR COORDINATION	21-04-22
C	ISSUED FOR SSD APPROVAL	10-10-22
B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD APPROVAL	09-09-22



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Client



Scales

1:250 @ A1

Drawn

NT

Designed

BL

Grid

GDA2020

Checked

CB

Height
Datum

AHD

Approved

Project

BURRA PARK
DEVELOPMENT

Title

LOT 4.1 (WH 04)
SITEWORKS AND
STORMWATER DRAINAGE
PLAN SHEET 4

Civil Engineers and Project Managers

at&l

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Tel: 02 9439 1777
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info@atl.net.au

Status

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NOT FOR CONSTRUCTION

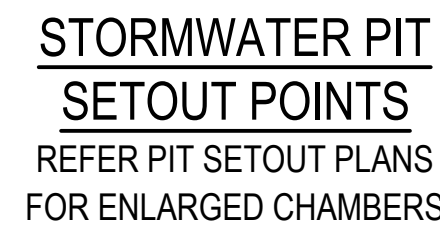
A1

Project - Drawing No.

22-993-C1414

Issue

H



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



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

Issue



1. IN UNDERTAKING TRENCH EXCAVATION, THE CONTRACTOR SHALL PROVIDE ANY SHORING, SHEET PILING OR OTHER STABILISATION OF THE TRENCH NECESSARY TO COMPLY WITH OHS REGULATION REQUIREMENTS. THE SIDES ARE NOT TO BE LOADED & SHALL BE KEPT CLEAR OF LOOSE MATERIAL ETC. SAFE ACCESS & EGRESS SHALL BE PROVIDED AT ALL TIMES.
2. THE TRENCH SHALL BE EXCAVATED TO A WIDTH 1.4 TIMES THE EXTERNAL DIAMETER OF THE PIPE, OR TO THE EXTERNAL DIAMETER OF THE PIPE PLUS 300mm ON EACH SIDE, WHICHEVER IS THE GREATER.

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


GDA2020

Project	BURRA PARK DEVELOPMENT
Title	LOT 4.1 (WH 04) STORMWATER DRAINAGE

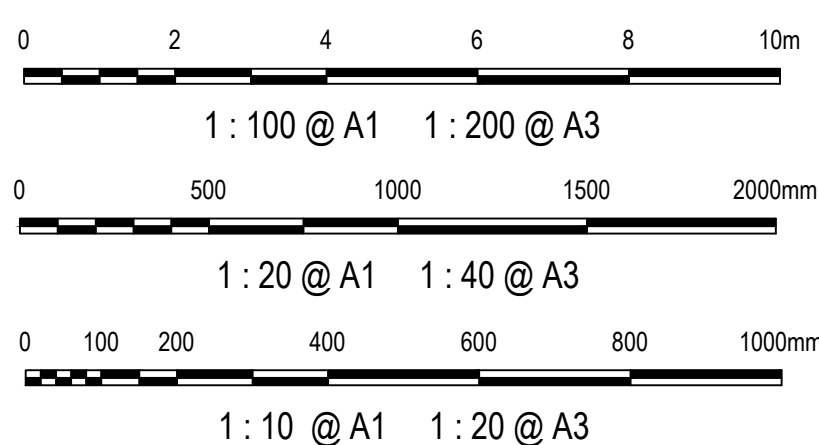
Civil Engineers and Project Managers



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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 Project - Drawing No. _____ Rev. _____	A1 Issue _____
---	-------------------------------------

H	ISSUED FOR SSD APPROVAL	20-07-26
G	ISSUED FOR SSD APPROVAL	11-10-24
F	ISSUED FOR UPDATED SSD APPROVAL	14-08-24
E	ISSUED FOR SSD APPROVAL	23-05-23
D	FOR COORDINATION	21-04-22
C	ISSUED FOR SSD APPROVAL	10-10-22
B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD APPROVAL	09-09-22
Issue	Description	Date

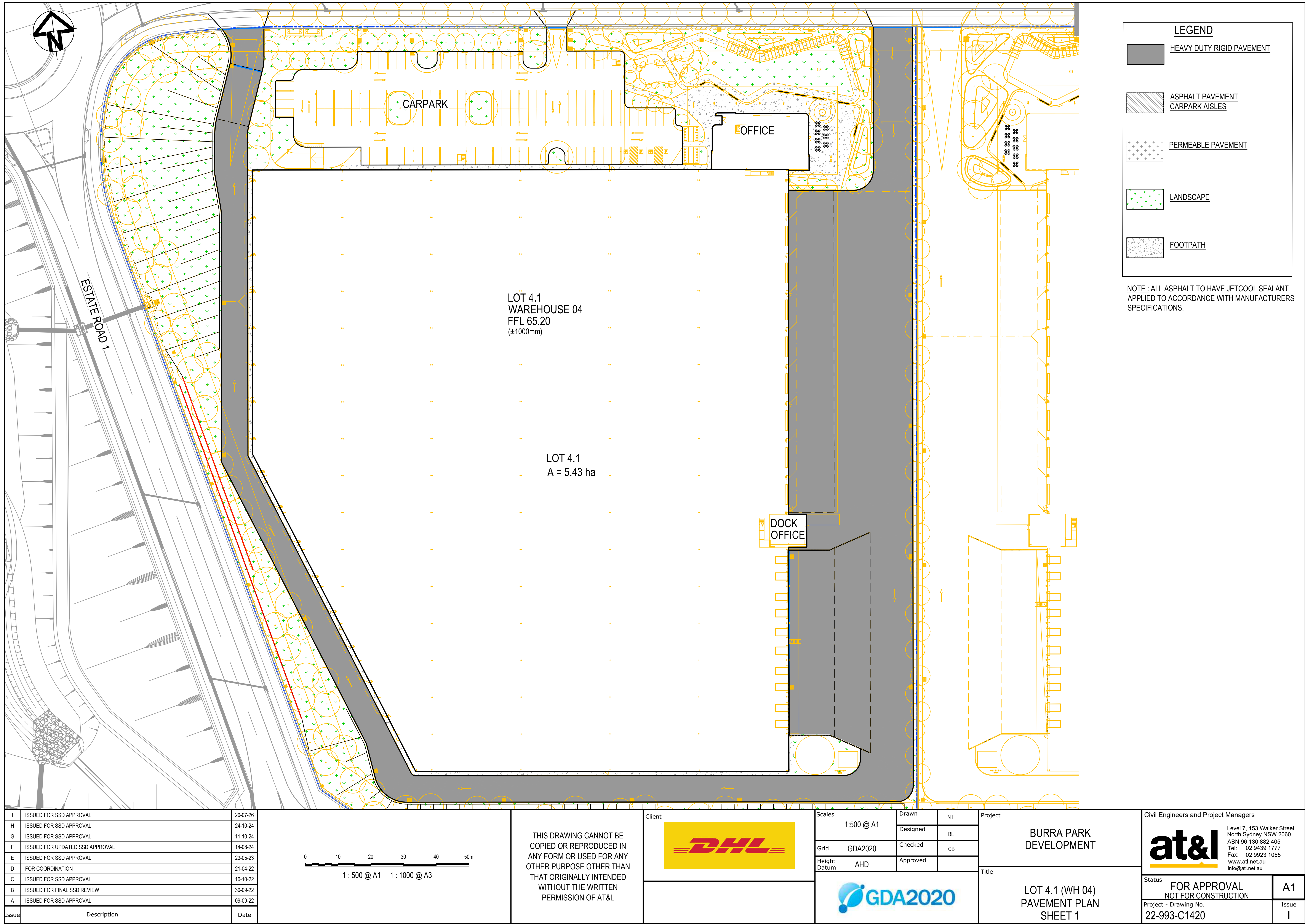


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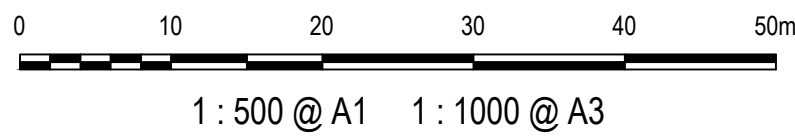
Client

The DHL logo is displayed in red on a yellow background. It features the letters 'DHL' in a bold, italicized sans-serif font, with three horizontal lines on each side.

F:\22-993 DHL\6.0 Drqs\Civil\Final\SSDA\LOT 3.2\22-993-C1418.dwg



I	ISSUED FOR SSD APPROVAL	20-07-26
H	ISSUED FOR SSD APPROVAL	24-10-24
G	ISSUED FOR SSD APPROVAL	11-10-24
F	ISSUED FOR UPDATED SSD APPROVAL	14-08-24
E	ISSUED FOR SSD APPROVAL	23-05-23
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C	ISSUED FOR SSD APPROVAL	10-10-22
B	ISSUED FOR FINAL SSD REVIEW	30-09-22
A	ISSUED FOR SSD APPROVAL	09-09-22
Issue	Description	Date



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DHL

Scales

1:500 @ A1

Grid GDA2020

Height Datum AHD

Drawn NT

Designed BL

Checked CB

Approved

GDA2020

Project

BURRA PARK DEVELOPMENT

Title

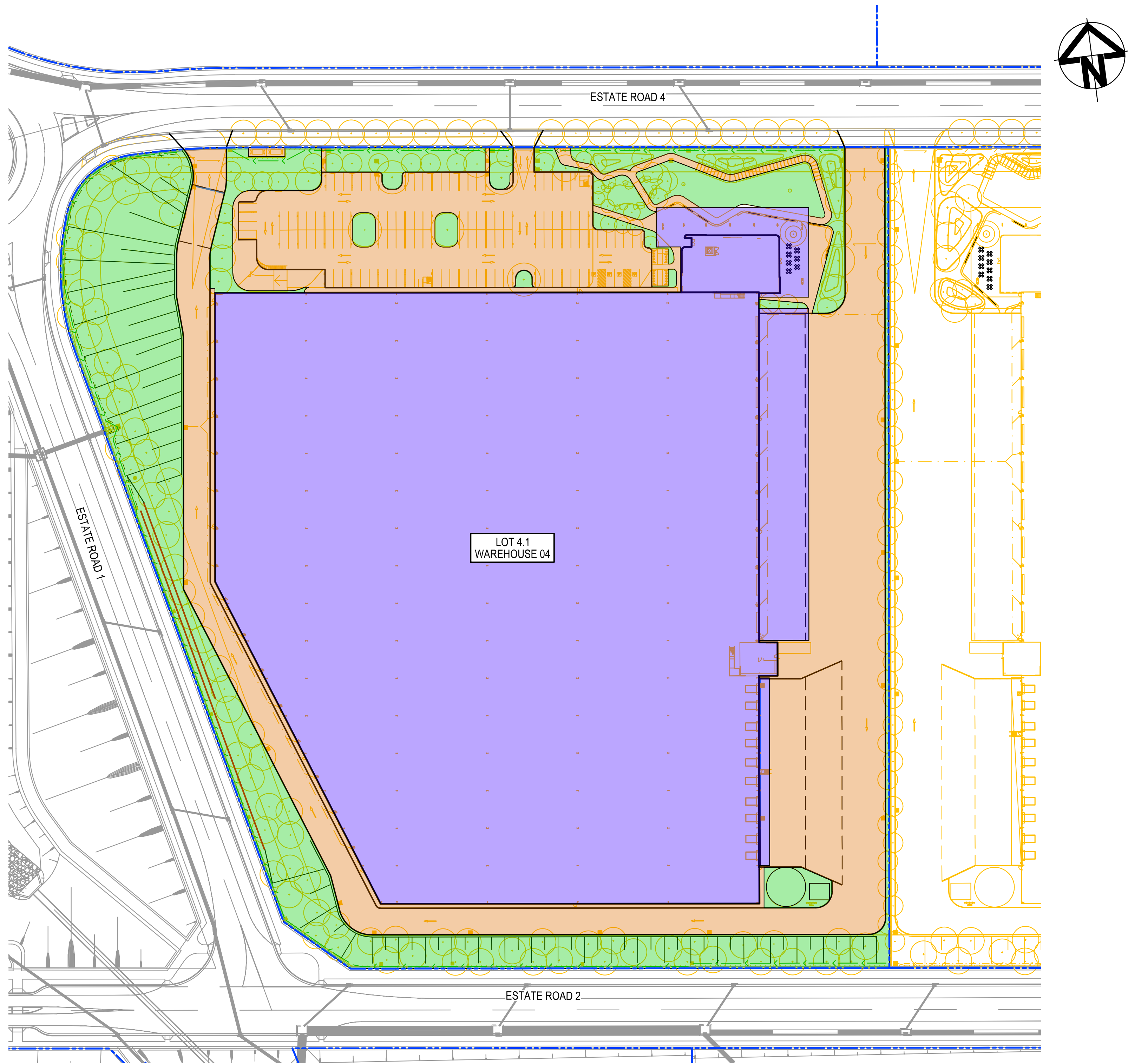
LOT 4.1 (WH 04) PAVEMENT PLAN SHEET 1

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
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info@atl.net.au

Status	FOR APPROVAL NOT FOR CONSTRUCTION	A1
Project - Drawing No.	22-993-C1420	Issue I



LOT 4.1	AREA
ROOF	3.060 ha
HARDSTAND	1.450 ha
LANDSCAPE	0.917ha
TOTAL AREA LOT 4.1	5.427 ha

C	ISSUED FOR SSD APPROVAL	20-07-26
B	ISSUED FOR COORDINATION	15-01-26
A	ISSUED FOR COORDINATION	14-08-25
Issue	Description	Date

0 20 40 60 80m

1 : 800 @ A1

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		Designed	BL
Grid	GDA2020	Checked	CB
Height Datum	AHD	Approved	
GDA2020			

Project	BURRA PARK DEVELOPMENT
Title	WSUD CATCHMENT 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-C1440	Issue C