

EARTHWORKS VOLUMES
VOLUMES (APPROXIMATE ONLY):

STAGE 1

CUT = - 100 900 m³
FILL = + 57 400 m³

DETAILED EXCAVATION (1,500m³/Ha over 4.97Ha) = - 7 500 m³

REINFORCED EARTH WALL BACKFILL = - 37 600 m³

BALANCE = - 88 600 m³ (EXPORT)

STAGE 2

CUT = - 45 900 m³
FILL = + 210 900 m³
WETLAND REGRADING = ± 0 m³ (CUT/FILL BALANCE)
DETENTION BASIN REGRADING = - 13 900 m³

DETAILED EXCAVATION (1,500m³/Ha over 12.62Ha) = - 18 900 m³

REINFORCED EARTH WALL BACKFILL = - 38 200 m³

BALANCE = + 94 000 m³ (IMPORT)

OVERALL

STAGE 1 BULK EARTHWORKS = - 88 600 m³
STAGE 2 BULK EARTHWORKS = + 94 000 m³

BALANCE = + 5 400 m³ (IMPORT)

EARTHWORK VOLUMES ARE PRELIMINARY ONLY AND HAVE BEEN BASED ON A TOPSOIL STRIP/SLAB TRIM OF 200mm OVER THE ENTIRE SITE. THE VOLUMES HAVE ALSO BEEN BASED ON AN OVERALL PAVEMENT STRUCTURAL THICKNESS OF 300mm ACROSS THE SITE. NO ALLOWANCE HAS BEEN MADE IN THE ABOVE VOLUMES FOR EROSION & SEDIMENT CONTROL BACKFILLING, BULKING OR COMPACTION OF FILLED SOILS, THE REMOVAL OF UNCONTROLLED FILL OR CONTAMINATED MATERIAL, TEMPORARY DRAINAGE SWALES WITHIN BUILDING PADS, OR ANY OTHER UNSPECIFIED EXCAVATION RELATED TO FUTURE WAREHOUSE CONSTRUCTION.

THE EXISTING SURFACE IS BASED ON:

- THE SITE SURVEY PROVIDED BY CRUX SURVEYING AUSTRALIA REF 120016-SU-DT-001
- THE SITE SURVEY PROVIDED BY RENNIE GOLDFELD SURVEYORS REF 603.17
- LIDAR INFORMATION FROM THE NSW FOUNDATION SPATIAL DATA 'ELVIS'

PRELIMINARY EARTHWORKS ARE SUBJECT TO CHANGE TO SUIT FINAL FINISHED LEVELS & PAVEMENT DEPTHS WHICH ARE TO BE CONFIRMED DURING THE DETAILED DESIGN PHASE OF EACH INDIVIDUAL WAREHOUSE. CONTRACTORS ARE TO MAKE APPROPRIATE ALLOWANCES TO PROVIDE ADDITIONAL CUTTING AND FILLING AS NECESSARY TO SUIT THE FUTURE DESIGN LEVELS.

LEGEND:
LEVELS DATUM IS AHD

— 50.00 — - EXISTING CONTOUR (0.2m INTERVAL)

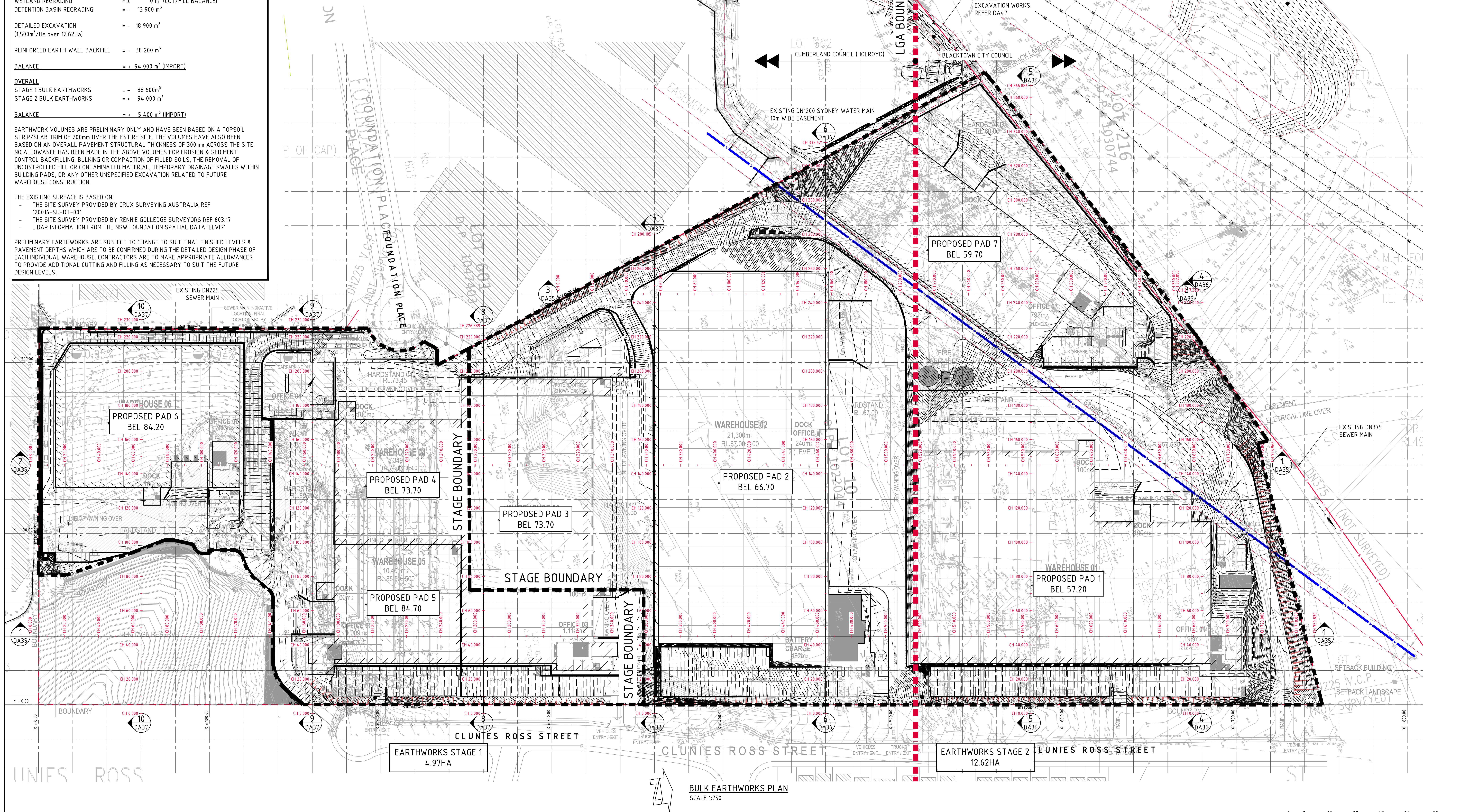
— 50.00 — - B.E.L. CONTOUR (MAJOR 1.0m)

— 50.10 — - B.E.L. CONTOUR (MINOR 0.25m)

— 50.00 — - B.E.L. SPOT LEVEL

— S — - EXISTING SEWER

— W — - EXISTING SYDNEY WATER MAIN



LEGEND:

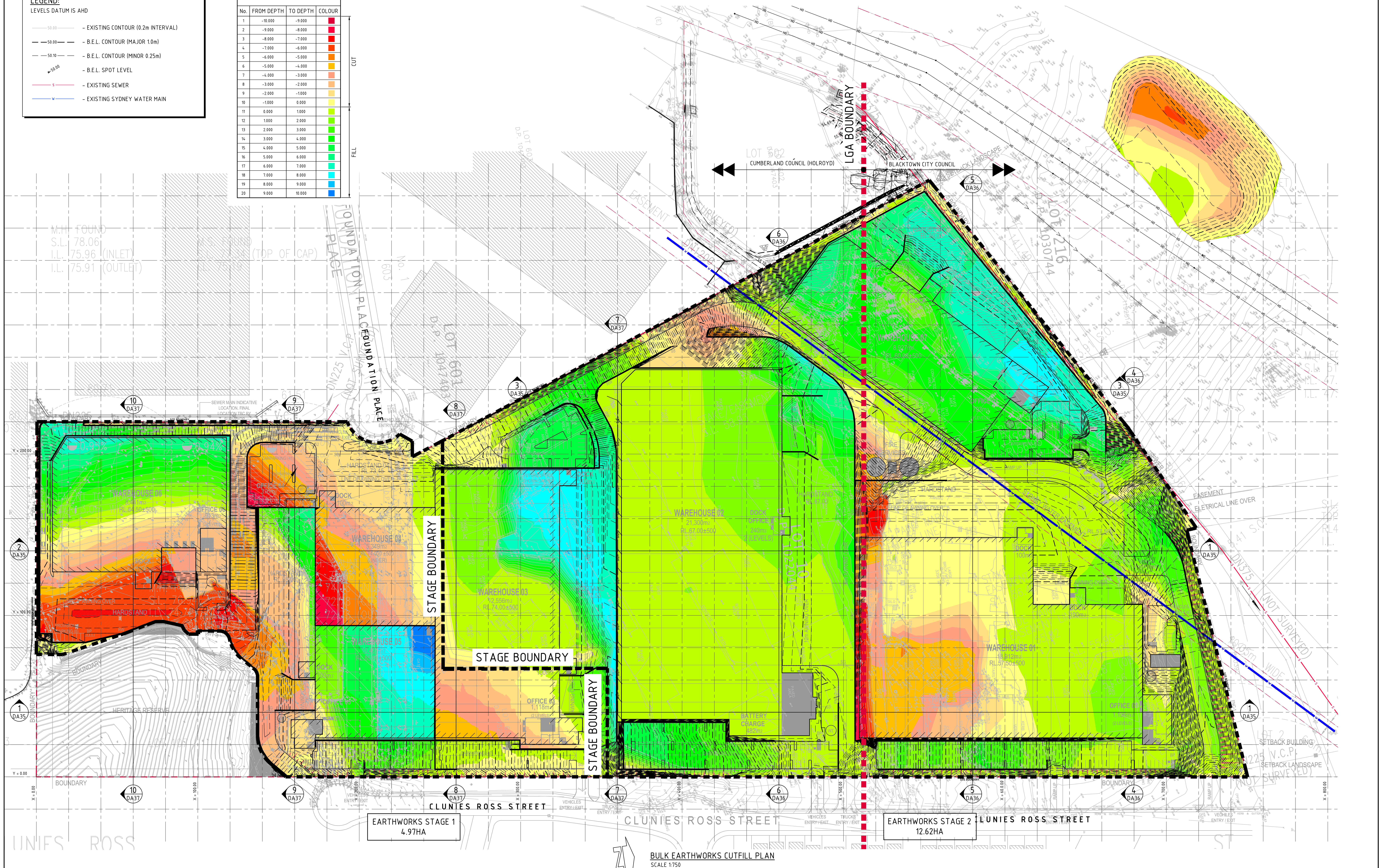
LEVELS DATUM IS AHD

- 50.00 — - EXISTING CONTOUR (0.2m INTERVAL)
— 50.00 — - B.E.L. CONTOUR (MAJOR 1.0m)
— 50.10 — - B.E.L. CONTOUR (MINOR 0.25m)
+ 50.00 - B.E.L. SPOT LEVEL
— S — - EXISTING SEWER
— W — - EXISTING SYDNEY WATER MAIN

DEPTH RANGE			
No.	FROM DEPTH	TO DEPTH	COLOUR
1	-10.000	-9.000	Red
2	-9.000	-8.000	Red
3	-8.000	-7.000	Red
4	-7.000	-6.000	Orange
5	-6.000	-5.000	Orange
6	-5.000	-4.000	Orange
7	-4.000	-3.000	Orange
8	-3.000	-2.000	Orange
9	-2.000	-1.000	Yellow
10	-1.000	0.000	Yellow
11	0.000	1.000	Light Green
12	1.000	2.000	Light Green
13	2.000	3.000	Light Green
14	3.000	4.000	Light Green
15	4.000	5.000	Light Green
16	5.000	6.000	Light Green
17	6.000	7.000	Light Green
18	7.000	8.000	Light Green
19	8.000	9.000	Light Green
20	9.000	10.000	Light Green

CUT

FILL

BULK EARTHWORKS CUTOFFILL PLAN
SCALE 1:7506m 0 15 30 45 60 75m
SCALE 1:750 AT A0 SIZE SHEET

FOR DEVELOPMENT APPLICATION

ISSUED FOR DEVELOPMENT APPLICATION	28.01.21	E
ISSUED FOR DEVELOPMENT APPLICATION	27.01.21	D
ISSUED FOR DEVELOPMENT APPLICATION	03.06.20	C
ISSUED FOR INFORMATION	22.04.20	B
ISSUED FOR INFORMATION	19.03.20	A
AMENDMENTS	DATE	ISSUE

AMENDMENTS	DATE	ISSUE	AMENDMENTS	DATE	ISSUE
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ARCHITECT	SB ARCHITECTS
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CLIENT	Aliro
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PROJECT	STATE SIGNIFICANT DEVELOPMENT APPLICATION 44 CLUNIES ROSS STREET, GREYSTANES
DESIGNED	DATE: MAR 20
CHECKED	DATE: MAR 20
SIZE	SCALE: A0 AS SHOWN
CAD REF:	C01325106-DA31

COSTIN ROE CONSULTING PTY LTD.	Consulting Engineers
Level 1, 8 Windmill Street	Wah Bay, Sydney NSW 2000
Tel: (02) 9551-7899	Fax: (02) 9541-3731
email: mail@costinroe.com.au	

COSTIN ROE CONSULTING	PRECISION COMMUNICATION ACCOUNTABILITY
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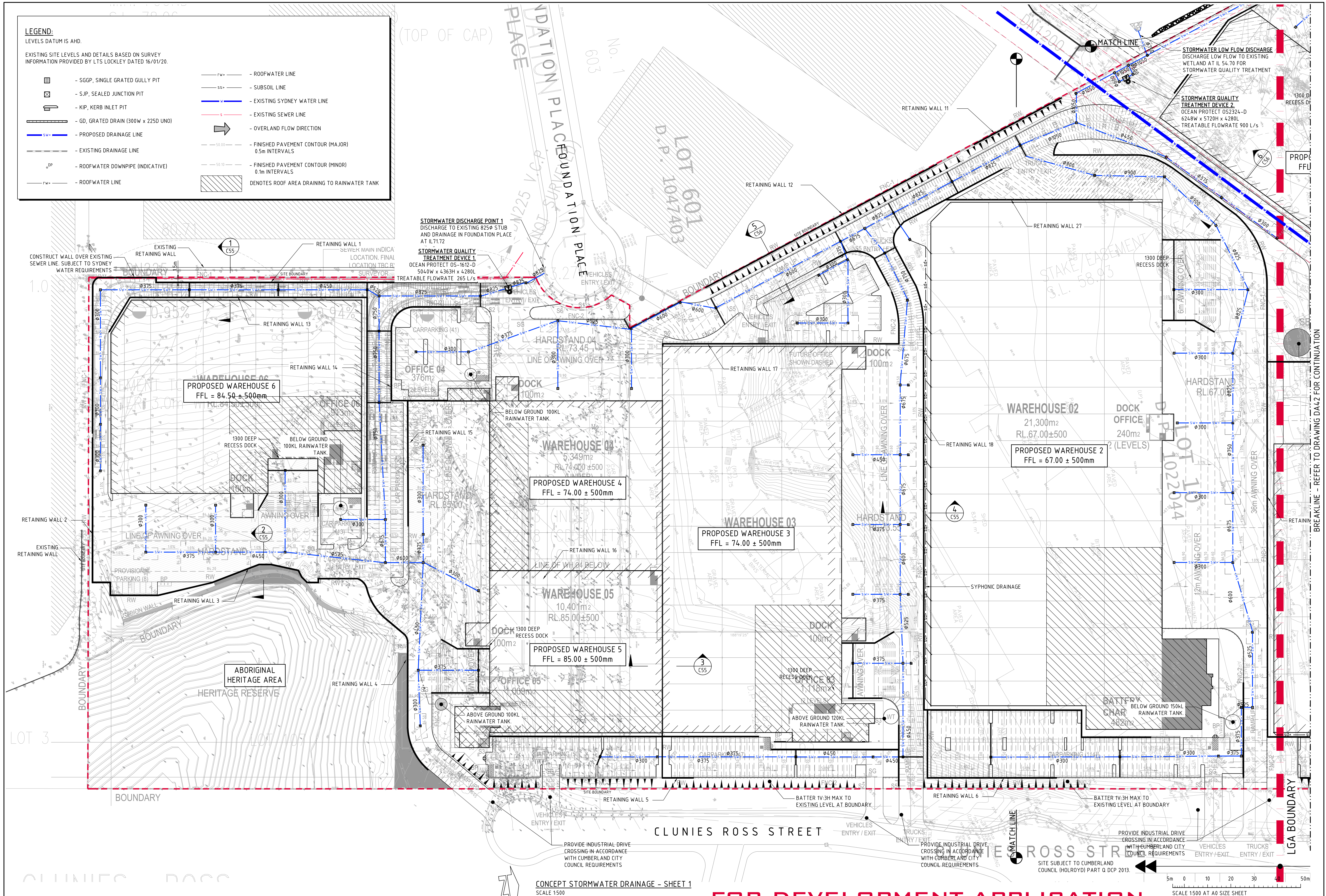
DRAWING TITLE	BULK EARTHWORKS CUTOFFILL PLAN
DRAWING No.	C013251.06-DA31
ISSUE	E

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY
INFORMATION PROVIDED BY L.T.S LOCKLEY DATED 16/01/20.

- SGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- PROPOSED DRAINAGE LINE
- EXISTING DRAINAGE LINE
- ROOFWATER DOWNSPIPE (INDICATIVE)
- ROOFWATER LINE
- ROOFWATER LINE
- SUBSOIL LINE
- EXISTING SYDNEY WATER LINE
- EXISTING SEWER LINE
- OVERLAND FLOW DIRECTION
- FINISHED PAVEMENT CONTOUR (MAJOR)
0.5m INTERVALS
- FINISHED PAVEMENT CONTOUR (MINOR)
0.1m INTERVALS
- DENOTES ROOF AREA DRAINING TO RAINWATER TANK

CONCEPT STORMWATER DRAINAGE - SHEET 1
SCALE 1:500

FOR DEVELOPMENT APPLICATION

SCALE 1:500 AT A0 SIZE SHEET

ISSUED FOR DEVELOPMENT APPLICATION	28.01.21	F		ARCHITECT	SB	CLIENT	Aliro	PROJECT	STATE SIGNIFICANT DEVELOPMENT APPLICATION	COSTIN ROE CONSULTING PTY LTD.	DRAWING TITLE	CONCEPT STORMWATER DRAINAGE
ISSUED FOR DEVELOPMENT APPLICATION	27.01.21	E						LEVEL 1, 8 WINDMILL STREET	44 CLUNIES ROSS STREET, GREYSTANES	Consulting Engineers	PLAN	
ISSUED FOR DEVELOPMENT APPLICATION	28.10.20	D						WALSH BAY, SYDNEY NSW 2000			SHEET 1	
ISSUED FOR DEVELOPMENT APPLICATION	03.06.20	C						Tel: (02) 9251-7699 Fax: (02) 9241-3721				
ISSUED FOR INFORMATION	22.04.20	B						email: mail@costinroe.com.au				
ISSUED FOR INFORMATION	13.03.20	A										
AMENDMENTS	DATE	ISSUE	AMENDMENTS	DATE	ISSUE	AMENDMENTS	DATE	ISSUE	PRECISION COMMUNICATION ACCOUNTABILITY	ISSUE	PRECISION COMMUNICATION ACCOUNTABILITY	ISSUE

LEVELS DATUM IS AHD.

	- SGGP, SINGLE GRATED GULLY PIT
	- SJP, SEALED JUNCTION PIT
	- KIP, KERB INLET PIT
	- GD, GRATED DRAIN (300W x 225D UNO)
50.00 — — —	- FINISHED PAVEMENT CONTOUR (MAJOR 0.5m INTERVALS)
50.10 — — —	- FINISHED PAVEMENT CONTOUR (MINOR 0.1m INTERVALS)
50.10 ~~~~~	- EXISTING SURFACE CONTOUR



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DRAWING TITLE
FINISHED LEVELS PLAN - SHEET 1

DRAWING No	C013251.06-DA51	ISSUE	E
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