

PALLIATIVE CARE AND RESIDENTIAL CARE FACILITIES AND SELF CONTAINED DWELLINGS

CIVIL ENGINEERING PLANS - D.A. STAGE



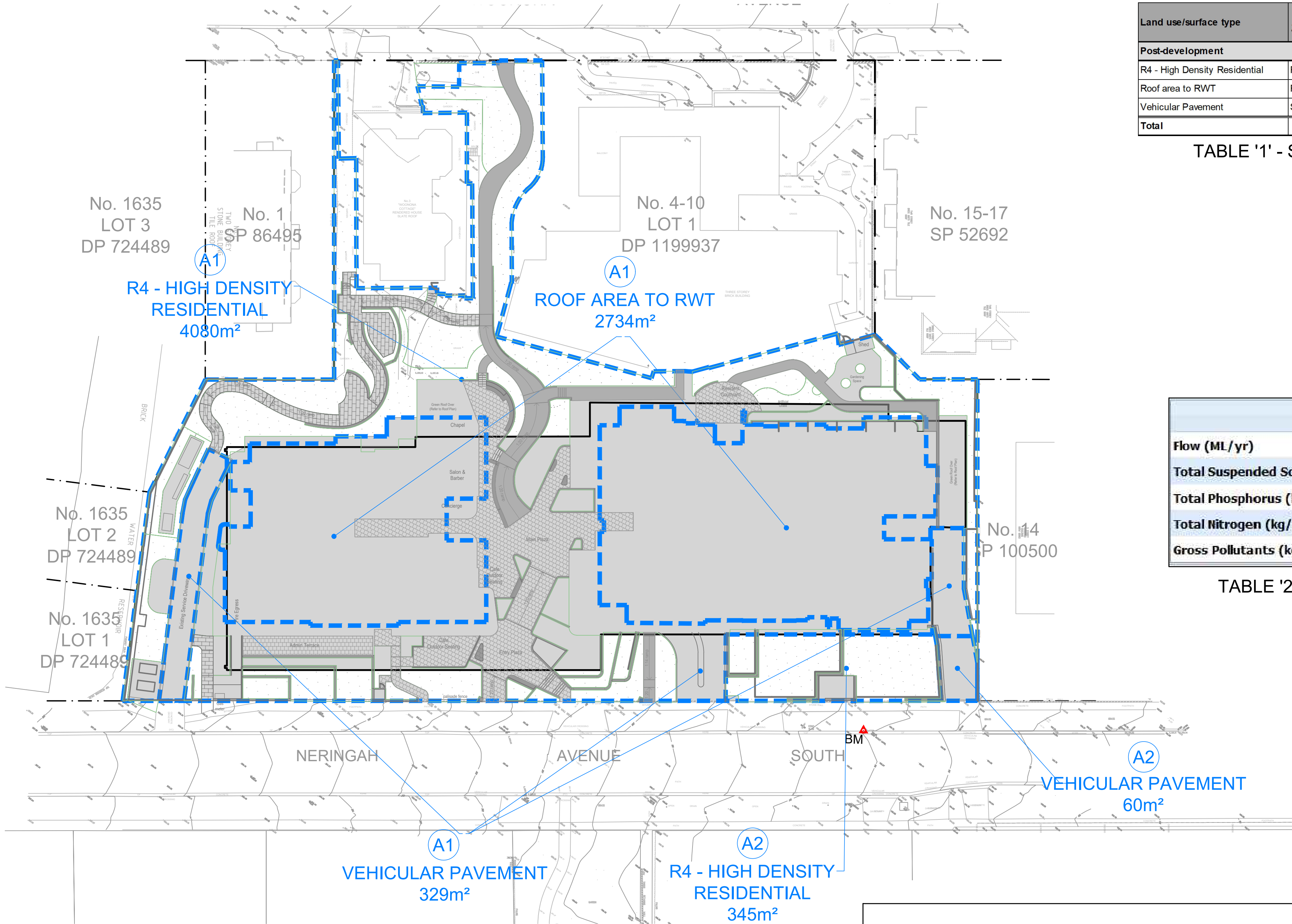
SOURCE : NEARMAPS.COM

DRAWING SCHEDULE	
DRG No.	DRAWING TITLE
CI-DG-01-00	COVER SHEET , DRAWING SCHEDULE AND SITE LOCALITY PLAN
CI-DG-02-00	STORMWATER QUALITY AND 'MUSIC' MODEL PLAN
CI-DG-03-E0	CONCEPT EROSION AND SEDIMENT CONTROL PLAN
CI-DG-04-E0	BULK EARTHWORKS PLAN
CI-DG10-E3	STORMWATER MANAGEMENT PLAN - LOWER GROUND
CI-DG-11-E4	STORMWATER MANAGEMENT PLAN - GROUND
CI-DG-70-00	DETAILS SHEET 1

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REV.	DESCRIPTION	DESIGN	DRAWN	CHECKED	VERIFIED	DATE	CLIENT	ARCHITECT	 ALL SETOUT TO ARCHITECT'S DRAWINGS. DIMENSIONS TO BE VERIFIED WITH THE ARCHITECT OR COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.	 Wollongong Level 1, 57 Kembla Street, Wollongong NSW 2500 Ph (02) 4226 3333 Fax (02) 4226 3666 P.O. Box 663, Wollongong, NSW 2500 Email southcoast@northrop.com.au ABN 81 094 433 100	PROJECT WAHROONGA STAGE 2 2-10 NERINGAH AVENUE SOUTH, WAHROONGAH NSW 2076	DRAWING TITLE COVER SHEET, DRAWING SCHEDULE AND SITE LOCALITY PLAN	JOB NUMBER 221346	DRAWING NUMBER CI-DG-01-00	REVISION P1	DRAWING SHEET SIZE = A1
P1	ISSUED FOR CO-ORDINATION	C.B	L.M	C.N		15/11/22	 BICKERTONMASTERS SYDNEY (02) 9307 6333 LEVEL 2, 231-233 COMMONWEALTH ST. SURRY HILLS, NSW www.bickertonmasters.com.au	DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD								

Rate : 16-11-22 1:20am
 Plotted by : chovat
 Found : 1:20ZZ jobszz 1346 - Hammond Care - Wainroonga Stage 21D-Drawingstc-Civilzz 1346-CADUI-1-JAUG-DG-1-JJ_COVER SHEET, DRAWING SCHEDULE AND SITE LOCALITY PLAN.dwg



Land use/surface type	MUSIC Zoning/Surface type	Total area (ha)	Sub-catchment areas (ha) (Imp.)			
Post-development			A1		A2	
R4 - High Density Residential	Residential	0.443	0.408	63%	0.035	12%
Roof area to RWT	Roofs	0.273	0.273	100%		
Vehicular Pavement	Sealed roads	0.039	0.033	100%	0.006	100%
Total		0.755	0.714		0.041	

TABLE '1' - SUMMARY OF SITE CATCHMENT AREAS

LEGEND

--- CATCHMENT BOUNDARY

(A1) CATCHMENT I.D.

IMPERVIOUS AREA

PERVIOUS AREA

674.5 CONTOUR

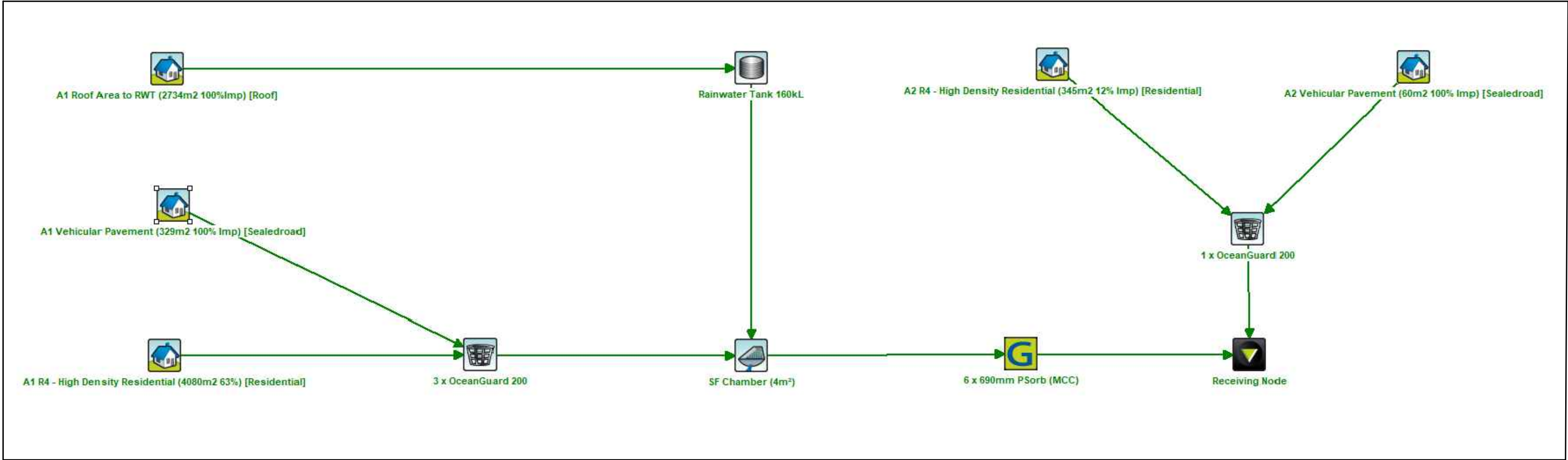
PROPERTY BOUNDARY

ADJACENT PROPERTY BOUNDARY

NOTE:
1. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE STORMWATER MANAGEMENT REPORT (REFERENCE 221346_STW01), PREPARED BY NORTHROP.

	Sources	Residual Load	% Reduction
Flow (ML/yr)	7.75	6.63	14.4
Total Suspended Solids (kg/yr)	881	107	87.8
Total Phosphorus (kg/yr)	1.86	0.648	65.1
Total Nitrogen (kg/yr)	16.6	7.97	52
Gross Pollutants (kg/yr)	187	0.00013	100

TABLE '2' - TREATMENT TRAIN EFFECTIVENESS



'MUSIC' MODEL DIAGRAM

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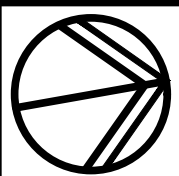
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SCALE 1:400@A1



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PROJECT

WAHROONGA STAGE 2
2-10 NERINGAH AVENUE SOUTH,
WAHROONGAH NSW 2076

DRAWING TITLE

STORMWATER QUALITY AND 'MUSIC'
MODEL PLAN

JOB NUMBER

221346

DRAWING NUMBER

CI-DG-02-00

DRAWING SHEET SIZE = A1

REVISION

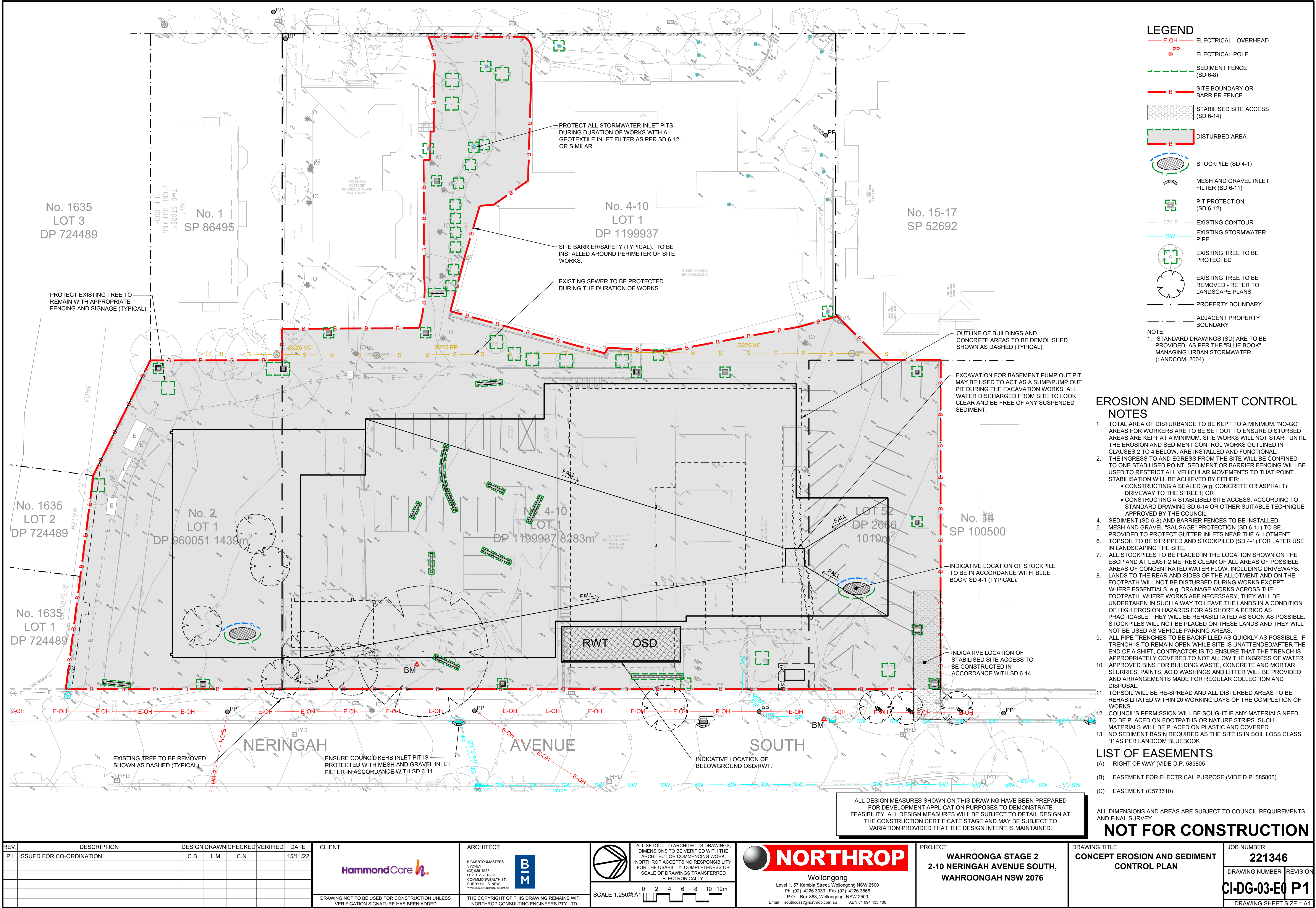
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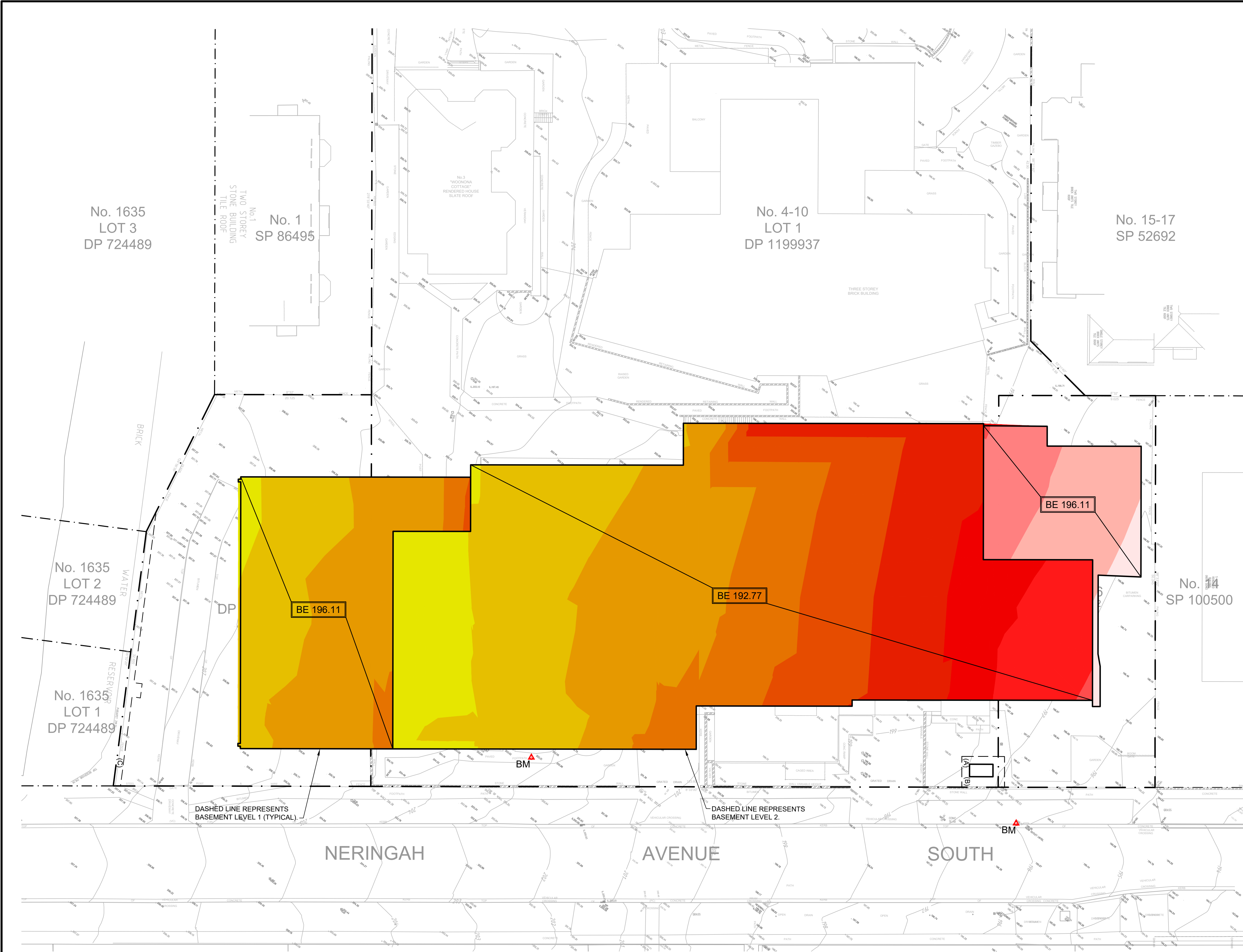
DATE

15-11-22 5:32pm

Plotted By: Drlslop

Found: T:\2022 Jobs\221346 - Hammond Care - Wahroonga Stage 2\Drawings\CI-DG-02-00 - STORMWATER QUALITY AND 'MUSIC' MODEL PLAN.dwg





LEGEND

BM

BE192.77

XX.XX

-1000m TO -11.0m

-11.0m TO -10.0m

-10.0m TO -9.0m

-9.0m TO -8.0m

-8.0m TO -7.0m

-7.0m TO -6.0m

-6.0m TO -5.0m

-5.0m TO -4.0m

-4.0m TO -3.0m

— · —

PROPERTY BOUNDARY

— · — · —

ADJACENT PROPERTY BOUNDARY

TABLE '1' - CUT AND FILL VOLUMES			
SURFACE	CUT	FILL	NET
TOTAL	33,169 cu.m	0.000 cu.m	33,169 cu.m (CUT)

LIST OF EASEMENTS

(A) RIGHT OF WAY (VIDE D.P. 585805)

(B) EASEMENT FOR ELECTRICAL PURPOSE (VIDE D.P. 585805)

(C) EASEMENT (C573610)

ALL DIMENSIONS AND AREAS ARE SUBJECT TO COUNCIL REQUIREMENTS AND FINAL SURVEY.

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PROJECT

WAHROONGA STAGE 2
2-10 NERINGAH AVENUE SOUTH,
WAHROONGAH NSW 2076

DRAWING TITLE

CONCEPT BULK EARTHWORKS
PLAN

JOB NUMBER

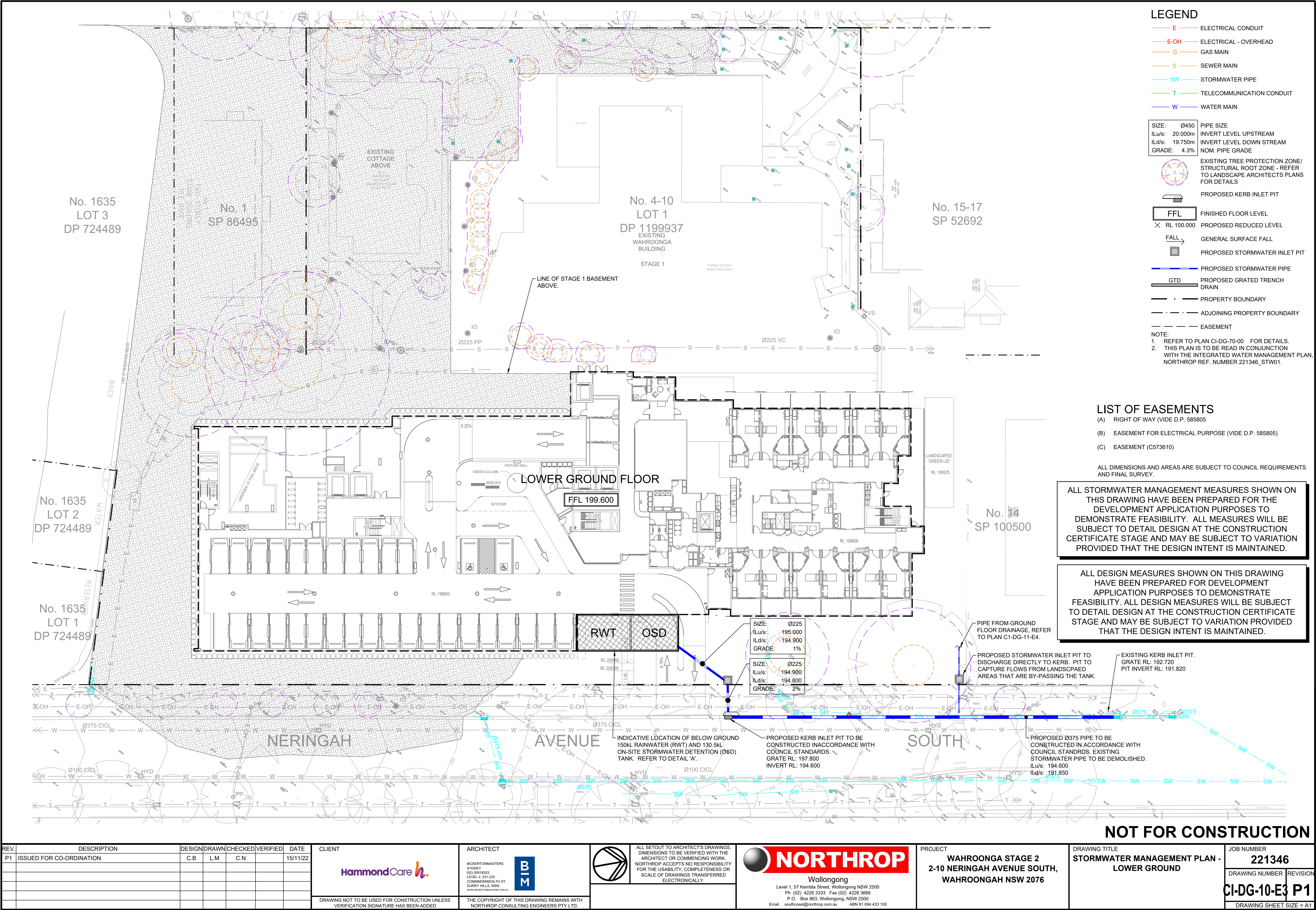
221346

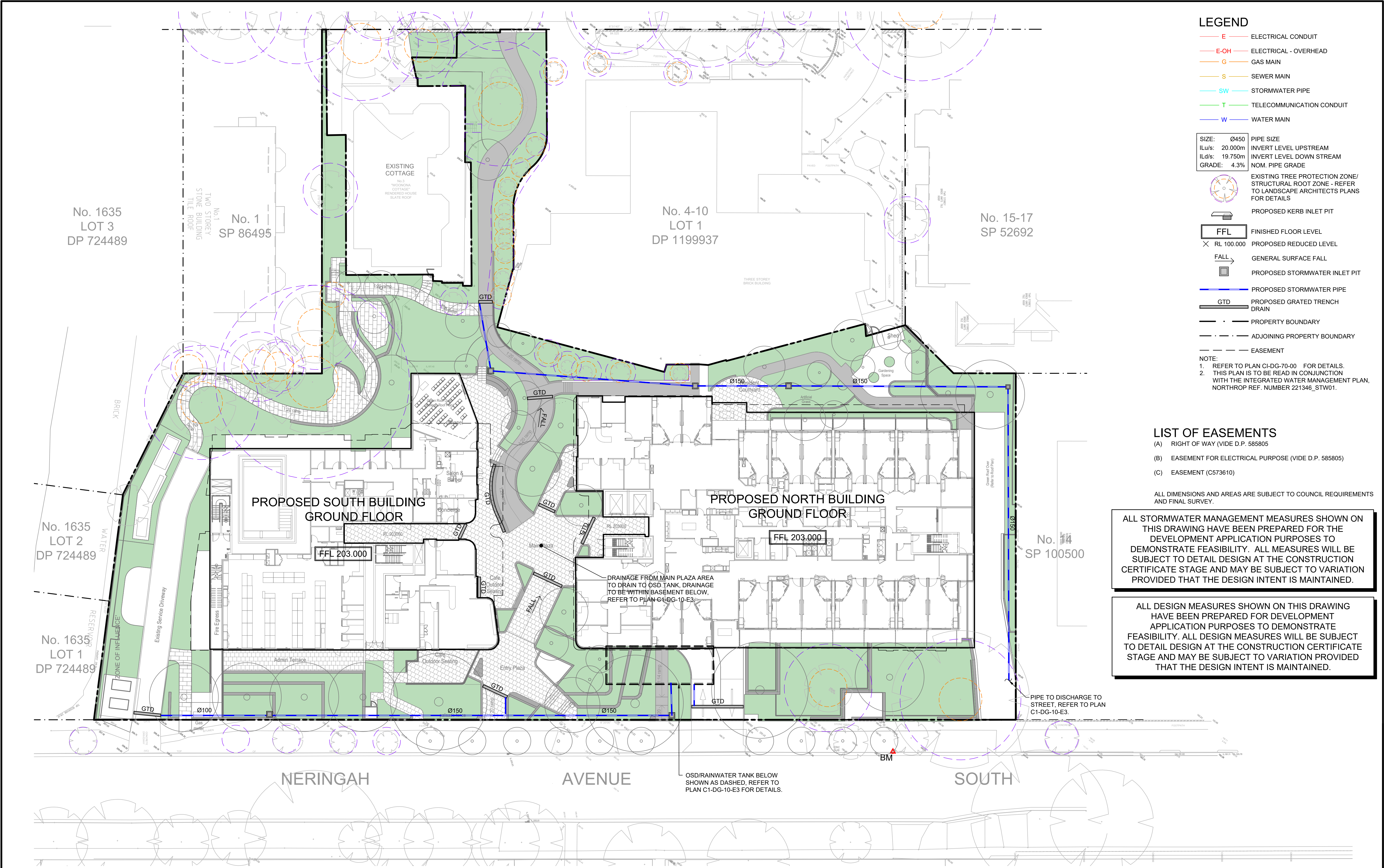
DRAWING NUMBER

CI-DG-04-E0 P1

DRAWING SHEET SIZE = A1

Found : 13/02/22 09:55:22 1346 - Hammond Care - Wahroonga Stage 2-Drawings-C:\NW221346-CAD\01-04\CI-DG-04-E0- CONCEPT BULK EARTHWORKS PLAN.dwg
Plotted By : onvali Date : 16-11-22 11:08am





- LEGEND**
- E ELECTRICAL CONDUIT
 - E-OH ELECTRICAL - OVERHEAD
 - G GAS MAIN
 - S SEWER MAIN
 - SW STORMWATER PIPE
 - T TELECOMMUNICATION CONDUIT
 - W WATER MAIN

SIZE: Ø450
ILu/s: 20.000m
ILD/s: 19.750m
GRADE: 4.3%

PIPE SIZE
INVERT LEVEL UPSTREAM
INVERT LEVEL DOWN STREAM
NOM. PIPE GRADE

EXISTING TREE PROTECTION ZONE/
STRUCTURAL ROOT ZONE - REFER
TO LANDSCAPE ARCHITECTS PLANS
FOR DETAILS

PROPOSED KERB INLET PIT

FFL FINISHED FLOOR LEVEL
X RL 100.000 PROPOSED REDUCED LEVEL

FALL GENERAL SURFACE FALL

PROPOSED STORMWATER INLET PIT

PROPOSED STORMWATER PIPE

GTD PROPOSED GRATED TRENCH
DRAIN

PROPERTY BOUNDARY

ADJOINING PROPERTY BOUNDARY

EASEMENT

NOTE:
1. REFER TO PLAN CI-DG-70-00 FOR DETAILS.
2. THIS PLAN IS TO BE READ IN CONJUNCTION
WITH THE INTEGRATED WATER MANAGEMENT PLAN,
NORTHROP REF. NUMBER 221346_STW01.

LIST OF EASEMENTS

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- (B) EASEMENT FOR ELECTRICAL PURPOSE (VIDE D.P. 585805)
- (C) EASEMENT (C573610)

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CLIENT

HammondCare h.

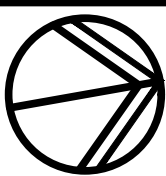
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0 2 4 6 8 10 12m

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PROJECT
WAHROONGA STAGE 2
2-10 NERINGAH AVENUE SOUTH,
WAHROONGAH NSW 2076

DRAWING TITLE
STORMWATER MANAGEMENT PLAN -
GROUND

JOB NUMBER
221346
DRAWING NUMBER
CI-DG-11-E4 P1
REVISION
DRAWING SHEET SIZE = A1



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