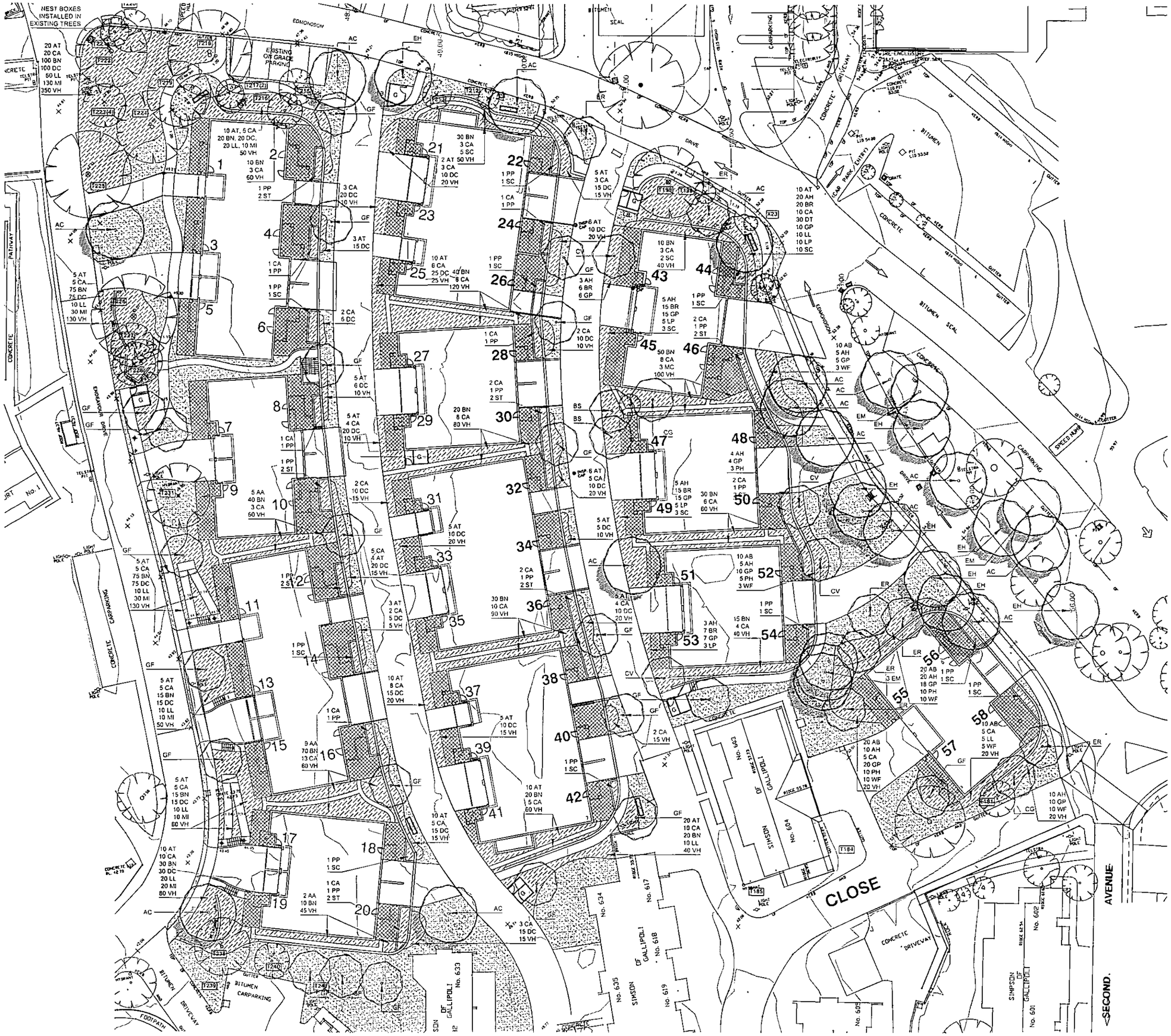

LEGEND

- EXISTING TREE REFER TO ARBORIST REPORT
- PROPOSED TREE
- TURF
- PROPOSED PLANTING AREAS

PLANTING SCHEDULE

ID	Species	Common Name	Mature Height	Pot Size	QTY
	Trees				
AC	*Angophora costata*	Smooth-barked Apple	20	25L	15
BS	*Banksia serrata*	Old Man Banksia	8	25L	2
CV	*Callistemon viminalis*	Bottlebrush	12	25L	4
CG	*Ceratopetalum gummiferum*	NSW Christmas Bush	6	25L	2
EH	*Eucalyptus haemastoma*	Scribbly Gum	20	25L	8
EH	*Eucalyptus microcorys*	Tallowwood	25	25L	5
ER	*Eucalyptus racemosa*	Scribbly Gum	15	25L	7
GF	*Glochidion ferdinandi*	Cheese Tree	12	25L	22
	Shrubs				
AH	*Actinotus helianthi*	Flannel Flower	400mm	5L	90
AA	*Asplenium australasicum*	Bird's Nest Fern	1	5L	16
AT	*Atriplex cinerea*	Grey Saltbush	500mm	Tubestock	189
CA	*Correa alba*	White Correa	1.5	5L	232
LP	*Leptospermum* 'Pink Cascade'	Leptospermum	600mm	5L	23
MC	*Macrozamia communis*	Cycad	4	5L	3
PP	*Pandorea pandorana*	Wonga Wonga Vine	Vine	5L	23
PH	*Phebalium squamulosum*	Scaly Phebalium	3	5L	28
SC	*Syzygium 'Cascade'*	Pink Flowering Lilly Pilly	4	5L	33
ST	*Syzygium 'Tiny Trev'*	Lilly Pilly	2	5L	16
WF	*Westringia fruticosa*	Coast Rosemary	2	5L	41
	Groundcovers				
AB	*Anigozanthos* 'Bush Gem'	Kangaroo Paw	500mm	Tubestock	70
BN	*Blechnum nudum*	Fishbone Water Fern	500mm	Tubestock	725
BR	*Brachycome multifida* 'Break O' Day'	Rock Daisy	150mm	Tubestock	63
DT	*Danthonia tenuior*	Wallaby Grass	500mm	Tubestock	30
DC	*Dianella caerulea*	Paroo lily	500mm	Tubestock	592
GP	*Grevillea* 'Poorinda Royal Mantle'	Grevillea	200mm	2.5L	125
LL	*Lomandra longifolia*	Spiny-headed mat-rush	1	Tubestock	165
MI	*Myoporum insulare*	Boobiala	300mm	Tubestock	240
VH	*Viola hederacea*	Native Violet	100mm	Tubestock	2120

THIS PLAN IS TO BE READ IN CONJUNCTION WITH

DA 2009 / 1695

WARRINGAH COUNCIL

issue	description	date
A	DA	01.12.2009

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project:
RSL ANZAC VILLAGE, NARRABEEN
NEW DARBY AND JOAN

drawing title.
LANDSCAPE PLAN

scale: 1:250@ A1 drawn: KMo drawing no.: LA01 revision: A
date: NOV 2009 designed: MT/KMo
job no.: 09-0665 checked: MT

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Figured dimensions shall be taken in preference to scaling.
The contractor shall check all dimensions on site before commencing work.

RSL ANZAC VILLAGE, NEW DARBY & JOAN

CIVIL & STORMWATER DRAINAGE CONCEPT PLANS

LEGEND

CIVIL DRAINAGE SYMBOLS

- STW — STORMWATER DRAINAGE PIPE
- STWRM — STORMWATER RISING MAIN
- STORMWATER DRAINAGE CHANNEL
- RW — SUB SOIL DRAINAGE WITH CLEAN OUT
- CO SS — RAINWATER
- SSRM — SUB SOIL RISING MAIN
- EB-LF — EARTH BANK LOW FLOW
- EB-HF — EARTH BANK HIGH FLOW
- EM — EXCAVATED MATERIAL
- FLUME
- DD — DIVERSION DRAIN
- DD — DIVERSION DRAIN
- OFP — OVERFLOW PATH
- OFD — OVERFLOW DRAIN
- CLD — CONCRETE LINED DRAIN
- RLD — ROCK LINED DRAIN
- TD — TABLE DRAIN
- V DRAIN (L)
- V DRAIN (R)
- SWALE or SPEED HUMP
- OVERLAND FLOW DIRECTIONAL ARROW
- OVERLAND FLOW PATH
- o DP — DOWN PIPE
- PAVED AREA DRAIN
- DROP TO OR RISE FROM
- RISE TO OR DROP FROM
- TEE DROP
- TEE RISE
- VERTICAL RISER IN DRAINAGE
- FLOW DIRECTIONAL ARROWS ON ALL PIPING SERVICES
- PIPELINE FORMWATED WITH BLANK FLANGE
- PIPELINE PLUGGED OFF
- CO — CLEAROUT
- FP — FLUSHING POINT
- NEW PIPE
- RISER
- SERVICE
- SIZE
- DROPPER
- NON-RETURN FLAP VALVE ON INSIDE FACE OF PIT AT ALL DOWN PIPES & SUB SOIL DRAINAGE LINES TO OSD SYSTEM

CIVIL ABBREVIATIONS

DRAINAGE LEVELS

BWL	BOTTOM WATER LEVEL
IL	INVERT LEVEL
OL	OBVERT LEVEL
SL	SURFACE LEVEL
TWL	TOP WATER LEVEL

GRATES & COVERS

LD	LIGHT DUTY CLASS 'B'
MD	MEDIUM DUTY CLASS 'C'
HD	HEAVY DUTY CLASS 'D'
EHD	EXTRA HEAVY DUTY CLASS 'E'
MP	MULTI PART COVER OR GRATE

PITS

CDS	CDS TECHNOLOGIES STORMWATER TRAPS
DCP	DISCHARGE CONTROL PIT
DGGP	DOUBLE GRATED GULLY PIT
	(CAST IRON)
GPT	GROSS POLUTANT TRAP
JP	JUNCTION PIT
KEP	KERB ENTRY PIT
KEU	KERB ENTRY UNIT
MPC	MULTI PART COVER
MPG	MULTI PART GRATE
SGGP	SINGLE GRATED GULLY PIT (GMS)
SWP	STORMWATER PIT

DRAINAGE LINES

SS	SUBSOIL DRAINAGE
STRW	STORMWATER RISING MAIN
STW	STORMWATER DRAIN
GD	AGGRAVATED DRAIN
OLD	OPEN LINED DRAIN
OUD	OPEN UNLINED DRAIN

FEATURES

CO	CLEAROUT
DP	DOWN PIPE
FP	FLUSHING POINT
IO	INSPECTION OPENING
OF	GUTTER OVERFLOW PIPE
RO	RAINWATER OUTLET
DTU	DRAINAGE TURNUP

OSD

OSD	ONSITE DETENTION
PSD	PERMISSIBLE SITE DISCHARGE
OFP	OVERFLOW PATH
SWMP	STORM WATER MANAGEMENT PLAN
ESCP	EROSION & SEDIMENT CONTROL PLAN

- OSD ABOVE GROUND
- KEP - KERB ENTRY PIT
- DOUBLE GRATED GULLY PIT
- JUNCTION PIT WITH COVER
- SURFACE INLET PIT (FLUSH/RAISED)
- SURFACE INLET PIT (DEPRESSED)
- GRATED TRENCH DRAIN

EROSION & SEDIMENTATION SYMBOLS

FENCES

- B — BARRIER FENCE
- K — SEDIMENT FENCE
- SILT FENCE ON LEVEL
- SILT FENCE ON GRADE
- W — WIND FENCE

BANKS

- DIVERSION CHANNEL/BANK
- LEVEL SPREADER
- EB — EARTH BANK
- EBLF — EARTH BANK LOW FLOW
- EBHF — EARTH BANK HIGH FLOW
- EM — EXCAVATED MATERIAL

TRAPS

- GEOTEXTILE SEDIMENT TRAP
- CHECK DAMS (STRAW BALE OR ROCK)
- CONCRETE ENERGY DISSIPATOR
- STABALISED CONSTRUCTION SITE VEHICLE ENTRY/EXIT GRID
- SEDIMENT TRAP
- GEOTEXTILE FILTER BAGS ON SOCK

ROAD LANE MARKING SYMBOLS

- C1 CONTINUITY LINE 1m, 3m, w0.200
- C1 EDGE LINE 25m, 1m, w0.125
- L1 LANE LINE 3m, 9m, w0.080
- S1 SEPARATION LINE 3m, 9m, w0.100
- S2 SEPARATION LINE 6m, 6m, w0.100
- S3 SEPARATION LINE 3m, 3m, w0.100
- T1 TURN LINE 0.6m, 0.6m, w0.100
- TB GIVEWAY LINE 0.6m, 0.6m, w0.200
- PAVEMENT MARKERS SD, 1m CTS

LEGEND

SURVEY & MAPPING SYMBOLS

- PROPERTY BOUNDARY
- EASEMENT
- FENCE OFF BOUNDARY
- FENCE ALONG BOUNDARY
- FENCE ON BOUNDARY
- STATE BOUNDARY
- COUNTY BOUNDARY
- PARISH BOUNDARY
- SHIRE/MUNICIPLE BOUNDARY
- NATIONAL PARK BOUNDARY
- R — STATE RECREATION BOUNDARY
- STATE FOREST BOUNDARY
- TELSTRA EXCHANGE BOUNDARY

GENERAL ABBREVIATIONS

CTS	CENTRES
℄	CENTRE LINE
DIA	DIAMETER
DMR	DEPARTMENT OF MAIN ROADS
DWG	DRAWING
EX.	EXISTING
GALV	GALVANIZED
HD GALV	HOT DIPED GALVANIZED
ID	INTERNAL DIAMETER
L.O.C.	LIMIT OF CONTRACT
MAX	MAXIMUM
MIN	MINIMUM
NB	NOMINAL BORE
N.I.C.	NOT IN CONTRACT
No.	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
REV	REVISION
RTA	ROADS AND TRAFFIC AUTHORITY
SQ	SQUARE
SRA	STATE RAIL AUTHORITY
STD	STANDARD
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL

LEVELS ABBREVIATIONS

CL	CEILING LEVEL
FFL	FINISHED FLOOR LEVEL
FGL	FINISHED GROUND LEVEL
GL	EXISTING GROUND LEVEL
HL	HIGH LEVEL
HP	HIGH POINT
LL	LOW LEVEL
ML	MID LEVEL
NS	NATURAL SURFACE LEVEL
PL	PLATFORM LEVEL
RL	REDUCED LEVEL
US	UNDER SIDE
USFL	UNDERSIDE FLOOR

ROAD PAVEMENT ABBREVIATIONS

AC	ASPHALTIC CONCRETE
CBR	CALIFORNIA BEARING RATIO
DGB	DENSELY GRADED BASE COURSE
DGS	DENSELY GRADED SUB BASE
DSL	DESIGN SUBGRADE LEVEL
F.C.R.	FINE CRUSHED ROCK
O.T.R.	OTHER THEN ROCK
RC	REINFORCED CONCRETE
SF	STRIP FOOTING
R	RECYCLED CONCRETE
	JOINTS
BJ	BUTT JOINT
CIJ	CRACK INDUCED JOINT
CJ	CONSTRUCTION JOINT
CJ	CONTRACTION JOINT
CJ	CONTROL JOINT
DJ	DOWELLED JOINT
DKJ	DOWELLED KEY JOINT
EJ	EXPANSION JOINT
IJ	ISOLATION JOINT
KJ	KEYED JOINT
SC	SAW CUT
TJ	TOOL JOINT
TKJ	TOOL KEYED JOINT
	FEATURES
JK	NEW JERSEY KERB BARRIER
LP	LIGHT POLE
NKL	NORMAL KERB LINE
PP	POWER POLE
SL	STREET LIGHT
TL	TRAFFIC LIGHT

SURVEY ABBREVIATIONS

AHD	AUSTRALIAN HEIGHT DATUM
BK	BOTTOM OF KERB
BM	BENCH MARK
CL	CENTRE LINE
D.E.	DRAINAGE EASEMENT
DHW	DRILL HOLE & WING
FD	FOUND
INV	INVERT
K & G	KERB & GUTTER
R.O.W.	RIGHT OF CARRIAGEWAY
SSM	STATE SURVEY MARK
TK	TOP OF KERB
RL 165.40	PROPOSED SURFACE LEVEL

SERVICES & UTILITIES SYMBOLS

- A — AIR
- C — CABLES
- D — DRAINS
- E — ELECTRICAL
- LV — LOW VOLTAGE
- HV — HIGH VOLTAGE
- V — TRANSMISSION POWER LINES
- EFF — COMMON EFFLUENT
- ERM — EFFLUENT RISING MAIN
- F — FUEL
- G — GAS
- GHP1 — GAS HIGH PRESSURE
- GMP — GAS MEDIUM PRESSURE
- GLP — GAS LOW PRESSURE
- GAS — GAS
- NG — NATURAL GAS
- H — HYDRAULIC POWER
- I — IRRIGATION
- RTA — RTA ROADS & TRAFFIC AUTHORITY
- SRA — SRA STATE RAIL SERVICE
- S — SEWER
- SRM — SEWER RISING MAIN
- T — TELECOMMUNICATIONS TELSTRA
- OF — OPTICAL FIBRE OF
- SMOF — OPTICAL FIBRE CABLE SMOF
- OP — OPTUS
- OCC — OVERHEAD COMMUNICATION CABLE
- W — WATER
- WRM — WATER RISING MAIN
- MS — MISCELLANEOUS SERVICE
- X — X
- Y — Y
- Z — Z
- DRAINAGE CULVERTS & PIPE SIZES GREATER THAN & INCLUDING 450 DIA TO BE SHOWN IN FULL WIDTH

NOTE:-
'a' ON SERVICE LINE REPRESENTS EXISTING SERVICE OR THE USE OF LOWER CASE LETTER.

'x' ON SERVICE LINE REPRESENTS SERVICE TO BE ABANDONED.

DRAFTING SYMBOLS

D — AMENDMENT No

SCALE BARS

SCALE 1:200 — SCALE 1:200

SECTION SYMBOLS

A / C-03 — SECTION No / REFERENCE DRAWING

LIMIT OF CONTRACT SYMBOL

LOC

WATER & SEWER ABBREVIATIONS

AC	ACCESS CHAMBER
BT	BOUNDARY TRAP
GM	GRAVITY MAIN
HYD	HYDRANT
IO	INSPECTION OUTLET
LH	LAMP HOLE
MH	MAN HOLE
PS	PUMP STATION
RM	RISING MAIN
SV	STOP VALVE
SWW	SYDNEY WATER WATERMAIN
WM	WATER METER

WATER & SEWER SYMBOLS

- PROPOSED SYDNEY WATER SEWER
- FUTURE SYDNEY WATER SEWER
- EXISTING SYDNEY WATER SEWER
- EXISTING SYDNEY WATER SEWER
- EXISTING SYDNEY WATER SEWER TO BE DISUSED

MATERIALS

BR	BRASS
CI	CAST IRON
CICL	CAST IRON CEMENT LINED
CONC	CONCRETE
CP	CHROMIUM PLATED
CU	COPPER
DICL	DUCTILE IRON CEMENT LINED
FRC	FIBRE REINFORCED CEMENT GALVANISED
GMS	MILD STEEL
MS	MILD STEEL
NY	NYLON
PE	POLYETHYLENE
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RHS	RECTANGULAR HOLLOW SECTION
SS	STAINLESS STEEL

CATCHMENT SYMBOLS

- X — PIT CATCHMENT
- XX — LINE CATCHMENT
- XXX — MAJOR CATCHMENT
- SUB CATCHMENT
- LIMIT OF CATCHMENT

CATCHMENT ABBREVIATIONS

P( )	PAVED CATCHMENT AREA
R( )	ROOFED CATCHMENT AREA
A( )	LANDSCAPE CATCHMENT AREA
T( )	TERRACE CATCHMENT AREA
ARI	AVERAGE RECURRENCE INTERVAL
CA	CATCHMENT AREA
Ha	HECTARE
L/s	LITRES PER SECOND (VELOCITY)
m/s	METRES PER SECOND (VELOCITY)
CUMECS	CUBIC METRES PER SECOND
Q	QUANTITY OF FLOW

DRAWING LIST

C-201 TITLE, DRAWING LIST, LEGEND & ABBREVIATIONS

C-202 GENERAL SPECIFICATION NOTES

C-203 EXISTING SURVEY PLAN

C-204 BULK EARTHWORKS PLAN

C-205 EROSION & SEDIMENT CONTROL PLAN

C-206 EROSION & SEDIMENT CONTROL DETAILS

C-207 ROAD & LEVELS PLAN

C-208 LONGITUDINAL & TYPICAL CROSS SECTIONS

C-209 PAVEMENT PLAN

C-210 STORMWATER DRAINAGE CATCHMENT PLAN

C-211 STORMWATER DRAINAGE PLAN

C-212 STORMWATER DRAINAGE LONGITUDINAL SECTIONS

C-213 OSD TANK PLAN, SECTIONS & DETAILS

CLIENT
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DEVELOPMENT APPLICATION

TITLE
TITLE, DRAWING LIST, LEGEND & ABBREVIATIONS

DATE	DRAWN BY	APPROVED BY
NOV 09	C.M.	L.P.

JOB No.	DRAWING No.	ISSUE
3442	C-201	C

NOTES

GENERAL

G1. DESIGN HEREIN HAS BEEN PREPARED
BY WARREN SMITH AND PARTNERS PTY LTD
CONSULTING CIVIL ENGINEERS,
LEVEL 1, 123 CLARENCE ST, SYDNEY NSW 2000.
TEL:- (02) 9299 1312, FAX:- (02) 9290 1295.

G2. THE DRAWINGS HEREIN SHALL BE READ AS
REQUIRED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS
BY
YOUNG & METCALF ARCHITECTS
TEL:- (02) 9360 9799 FAX:- (02) 9360 9864

G3. ALL DIMENSIONS IN MILLIMETRES UNO.
REDUCED LEVELS AND CHAINAGES ARE IN METRES.
DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS.

G4. THE PROPOSED WORKS DETAILED HEREIN
SHALL BE CONSTRUCTED TO THE REQUIREMENTS
OF COUNCIL GENERALLY AS DETAILED HEREUNDER.

G5. ALL EXISTING SERVICES SHALL BE VERIFIED FOR
DEPTH AND HORIZONTAL POSITION BY PHYSICAL MEANS
PRIOR TO EXCAVATION. ANY DISCREPANCIES SHALL
BE BROUGHT FORTHWITH TO THE PROJECT MANAGER'S
ATTENTION.

STORMWATER & SUB-SOIL DRAINAGE

MATERIALS:

STW1. PIPES AND FITTINGS FOR STORMWATER
DRAINAGE SHALL BE AS FOLLOWS UNO ON THE
DRAWINGS:

A. POLYVINYL CHLORIDE (PVC) WITH SOLVENT
WELDED JOINTS FOR BELOW GROUND DRAINAGE
UP TO 225mm.

B. FIBRE REINFORCED CEMENT WITH RUBBER RINGS
FOR PIPE DIA'S GREATER THAN 225mm. UNO

C. REINFORCED CONCRETE WHERE REQUIRED BY
AS 3500 FOR EXCESSIVE DEPTH.

D. INSTALL IN ACCORDANCE WITH AUSTRALIAN
STANDARD AS3500 EXCEPT WHERE
VARIED BY THE CONTRACT DOCUMENTS

STW2. PIPES & FITTINGS FOR SUBSOIL DRAINAGE SHALL BE
SLOTTED POLYVINYL CHLORIDE (PVC) WITH SOLVENT
WELDED JOINTS, MIN. 90mm DIAMETER.

STW3. IN GROUND DRAINAGE PIPEWORK SERVING DP's
SHALL BE MINIMUM 150mm DIA. UNO.

STW4. GRATED DRAINS SHALL BE 150mm NOM.
A. 150mm NOM. WIDTH IN NON TRAFFICABLE AREAS
B. 225mm NOM. WIDTH IN TRAFFICABLE AREAS

STW5. STORMWATER PITS ARE AS SHOWN & SPECIFIED ON
THE PLANS. PRECAST TYPE ACCEPTABLE WITH STEP IRONS
FOR DEPTH GREATER THAN 1000.
BENCH ALL PITS MIN 50mm & FORM SMOOTH TRANSITION
FROM INLET TO OUTLET

STW6. SELECT FILL SHALL BE MATERIAL OBTAINED FROM
EXCAVATION OF THE PIPE TRENCH OR IMPORTED WITH
A PARTICLE SIZE FOR ROCK NOT GREATER THAN 75mm
OR FOR OTHER THAN ROCK NOT GREATER THAN
150mm

STW7. IMPORTED FILL SHALL BE EITHER, AND GENERALLY
CONSIST OF SINGLE SIZED AGGREGATE WITH PARTICLE
SIZE NOT GREATER THAN 5mm WRAPPED ALL ROUND
WITH GEOTEXTILE FILTER FABRIC OR APPROVED HIGH
COMPACTION SAND OR APPROVED CRUSHED ROAD
GRAVEL CONFORMING TO RTA FORM 3051 OR SIMILAR

STW8. STORMWATER PITS AND GRATES TO CONFORM WITH
STANDARD COUNCIL REQUIREMENTS, WHERE ON PUBLIC
LAND GRATES TO BE SUPPLIED IN CLASS SHOWN ON
THE DRAWINGS.

INSTALLATION REQUIREMENTS.

STW9. PIPES SHALL BE TRUE TO GRADES SHOWN AND
ALIGNED SO THAT THE CENTRES OF THE INLET PIPES
INTERSECT WITH THE CENTRE OF THE OUTLET PIPE AT
THE DOWNSTREAM FACE OF THE PIT.

STW10. MINIMUM GRADES FOR GRAVITY STORMWATER DRAINAGE
SHALL CONFORM TO AS3500 PART3 AS FOLLOWS, UNO
1% FOR 100 AND 150 mm DIA.
0.5% FOR 225 mm DIA
0.4% FOR 300 mm DIA
0.35% FOR 375 mm DIA

STW11. MINIMUM DEPTH OF COVER SHALL BE :-
- 300mm IN PRIVATE PROPERTY (NON VEHICULAR TRAFFIC)
- 450mm IN PUBLIC AREAS
- 600mm IN VEHICULAR TRAFFICABLE AREAS (FOOTWAY/ROADWAY)

STW12. BED ALL PIPES FIRMLY AND EVENLY ONTO IMPORTED
BEDDING FILL MATERIAL.

STW13. LAY AND JOINT ALL PIPES IN ACCORDANCE WITH THE
MANUFACTURERS RECOMMENDATIONS AND
AS 3725-1989 LOADS ON BURIED CONCRETE PIPES
AS 2566-1998 BURIED FLEXIBLE PIPELINES
AS 4997.2-1996 PRECAST REINFORCED CONCRETE BOX CULVERTS.
AS 3500-1998 NATIONAL PLUMBING & DRAINAGE CODE.
PART 3: SANITARY PLUMBING AND SANITARY DRAINAGE.
SYDNEY WATER REQUIREMENTS.

STW14. ALLOW TO TEST ALL PIPES AND PITS TO
MANUFACTURERS REQUIREMENTS.

CONCRETE WORKS

C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE
WITH AS3600, THE STANDARDS ASSOCIATION AUSTRALIA, STANDARDS
CITED IN AS3600, THE DRAWINGS AND THE SPECIFICATION

C2. ALL CONCRETE SHALL BE 80mm NOMINAL SLUMP, 20mm MAXIMUM
AGGREGATE WITH NO ADMIXTURES OR FLY ASH,
UNLESS OTHERWISE APPROVED

ALL CONCRETE WORK IN CONTACT WITH SEWER TO HAVE
TYPE SL PORTLAND CEMENT, OTHERWISE TYPE A CEMENT

FOR BRIDGE WORKS, A MAXIMUM 56 DAYS SHRINKAGE OF
600 MICROSTRAIN, A MINIMUM CEMENT CONTENT 350kg/m3 AND
MAXIMUM WATERCEMENT RATIO OF 0.40

C3. STRENGTH GRADE OF CONCRETE SHALL BE :
25 MPa (KERBS, EDGE STRIPS & CONCRETE ENCASEMENT)
AND 32 MPa ELSEWHERE.

C4. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED
ONLY WHERE SHOWN OR APPROVED.
GENERALLY FOR HAND PLACED KERB & GUTTER 6mm THICK APPROVED
BITUMINOUS MASTIC JOINTING MATERIAL SHALL BE PROVIDED AT
INTERVALS NOT EXCEEDING 6m. FOR MACHINE PLACED KERB & GUTTER
6mm THICK APPROVED BITUMINOUS MASTIC JOINTING MATERIAL
SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 12m & GUILLOTINED
DUMMY GROOVED JOINTS, 25mm IN DEPTH, SHALL BE FORMED EVERY
3m OF GUTTER. JOINTS ARE ALSO REQUIRED AT EACH END OF GUTTER
CROSSING AND GULLY PITS. JOINTS SHALL BE SET VERTICAL AND
SQUARE TO THE KERB

C5. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT
NECESSARILY SHOWN IN TRUE PROJECTION

C6. WELDING OR SPLICES IN REINFORCEMENT SHALL BE USED ONLY IN
POSITIONS APPROVED BY THE ENGINEER

C7. CONCRETE CURING SHALL BE IN ACCORDANCE WITH AS3600. CURING
SHALL BE COMMENCED WITHIN TWO HOURS OF FINISHING OPERATIONS
AND SHALL BE CONTINUED FOR A MINIMUM OF SEVEN DAYS BY AN
APPROVED PROPRIETARY COMPOUND OR BY KEEPING CONTINUOUSLY
WET.

C8. FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE
WITH AS3610. FORMWORK SHALL NOT BE STRIPPED NOR PROPS
REMOVED WITHOUT APPROVAL.

C9. FABRIC LAP DETAILS SHALL BE IN ACCORDANCE WITH FIG.13.2.4 OF
AS3600

C10. HOOKS, LAPS AND BENDS SHALL BE IN ACCORDANCE WITH
AS3600 UNO.

C11. ALL CHEMICAL ANCHORS SHALL BE EITHER 'CHEMSET'
BY 'RAMSET' WITH THE GLASS CAPSULE SYSTEM
INSTALLED IN STRICT ACCORDANCE WITH
MANUFACTURERS INSTRUCTIONS

OR

HILTI HVU ADHESIVE ANCHOR WITH FOIL CAPSULE
SYSTEM INSTALLED IN STRICT ACCORDANCE WITH
MANUFACTURERS INSTRUCTION. ALL CHEMICAL
ANCHORS SHALL BE HOT DIPPED GALVANIZED AND
BE MIN M16 DIA UNO

GENERAL EARTHWORKS, SITEWORKS & FILLING:

FILLING.

SGE1. THESE CLAUSES SHALL BE READ IN CONJUNCTION WITH
THE GEOTECHNICAL INVESTIGATION

SGE2. THE RECOMENDATIONS CONTAINED IN THE GEOTECH REPORT
SHALL OVERRIDE THE CLAUSES PRESENTED HEREIN.

SGE3. STRIP ALL TOPSOIL AND UNDERLYING FILL AND STOCKPILE
TOPSOIL FOR LATER REUSE FOR LANDSCAPING PURPOSES

SGE4. NEW FILL REQUIRED TO REINSTATE CUT LEVELS TO
PROPOSED BENCHING LEVELS SHALL BE SOURCED FROM
OTHER PARTS OF THE EXCAVATION AS SELECT FILL OR
IMPORTED FILL AS SPECIFIED BELOW IN SGE 4 AND SGE
5

SGE5. SELECT FILL SHALL CONSIST OF LOCALLY DERIVED OR CUT
NATURAL CLAYS.

SGE6. IMPORTED FILL SHALL CONSIST OF RIPPED SANDSTONE OR
SHALE OR SIMILAR MATERIAL WITH MAXIMUM PARTICLE
SIZE NOT GREATER THAN 120mm AND A MOISTURE
CONTENT WITHIN 2-3% OF STANDARD OPTIMUM.

SGE7. ALL FILL (COHESIVE SOILS) SHALL BE PLACED IN LAYERS
OF 200mm MAXIMUM THICKNESS, COMPACTED BY MACHINE
ROLLING TO ACHIEVE A DRY DENSITY RATIO OF NOT LESS
THAN 98% STANDARD MAXIMUM AT A CORRESPONDING
MOISTURE CONTENT WITHIN 2-3% OF STANDARD OPTIMUM.

SGE8. IN AREAS WHERE HIGH IMPACT ROLLING IS USED TEST
EACH FINAL LAYER OF NOT GREATER THAN 300mm TO
400mm TO ACHIEVE A DRY DENSITY RATIO OF NOT LESS
THAN 98% STANDARD MAXIMUM AT A CORRESPONDING
MOISTURE CONTENT WITHIN 2-3% OF STANDARD OPTIMUM.

EARTH WORKS FOR SERVICES

E1. EXCAVATE TRENCHES AND STOCKPILE ALL MATERIAL FOR
INSPECTION WITH REGARD TO RE-USE FOR TRENCH BACKFILL.
REMAINING MATERIAL TO BE REMOVED FROM SITE.

E2. BEDDING MATERIAL SHALL CONSIST OF IMPORTED FILL
ONLY. THICKNESS OF BEDDING LAYER SHALL BE 75mm
IN O.T.R. AND 200mm IN ROCK.

E3. EMBED ALL PIPES WITH IMPORTED FILL. PROVIDE
200mm SIDE SUPPORT AND 150mm OVERLAY ABOVE
PIPE CROWN

E4. TRENCH FILL ABOVE THE EMBEDMENT ZONE TO THE
UNDERSIDE OF THE ROAD PAVEMENT OR FOOTWAY FILL
MATERIAL SHALL BE AS FOLLOWS :

UNDER ROADWAY
TRENCH FILL MATERIAL SHALL CONSIST OF IMPORTED FILL
AS SPECIFIED HEREIN OF EITHER HIGH GRADE COMPACTION SAND
OR APPROVED CRUSHED ROAD GRAVEL CONFORMING TO
RTA FORM 3051 OR SIMILAR.

OTHER THAN ROADWAY
TRENCH FILL MATERIAL EXCAVATED SHALL CONSIST OF
SELECT FILL AS SPECIFIED HEREIN AND SHALL NOT CONTAIN
MORE THAN 20% OF STONES OF SIZE BETWEEN 75mm & 150mm
AND NONE LARGER THAN 150mm.
PRIOR TO THE USE OF THE EXCAVATED MATERIAL IT SHALL
BE INSPECTED AND APPROVED BY THE CONSULTANT.

E5. COMPACT BEDDING, EMBEDMENT AND TRENCH FILL
MATERIALS AS FOLLOWS:

EMBEDMENT:-
FOR GRANULAR FILL MATERIAL (NON-COHESIVE SOILS)
EG. COARSE AGGREGATE FILL HIGH GRADE
COMPACTION SAND, THE DENSITY INDEX (ID) SHALL BE
NOT LESS THAN 70%.

TRENCH FILL:-
FOR GRANULAR MATERIAL (NON-COHESIVE SOILS), THE
DENSITY INDEX (ID) SHALL BE NOT LESS THAN 70%

FOR NON-GRANULAR FILL MATERIAL (COHESIVE SOILS),
THE DRY DENSITY RATIO (RD) SHALL BE NOT LESS
THAN 95%

E6. MEASURE OF COMPACTION -
THE DEGREE OF COMPACTION SHALL BE MEASURED
BY ONE OF THE FOLLOWING PARAMETERS :-

GRANULAR FILL (NON-COHESIVE SOILS). THE DENSITY
INDEX (ID) DETERMINED IN ACCORDANCE WITH AS
1289.E6.1 BASED ON THE MAXIMUM AND MINIMUM DRY
DENSITIES IN ACCORDANCE WITH AS 1289.E5.1 AND
THE FIELD DRY DENSITY IN ACCORDANCE WITH AS
1289.5.3.2, AS 1289.E.3.5 OR AS 1289.E8.1

NON-GRANULAR FILL (COHESIVE SOILS) THE DRY
DENSITY RATIOS (RD) DETERMINED IN ACCORDANCE
WITH AS 1289.5.4.1 BASED ON THE FIELD DRY DENSITY
IN ACCORDANCE WITH AS 1289.5.3.2 AND THE MAXIMUM
DRY DENSITY IN ACCORDANCE WITH AS 1289.5.3.1

E7. GEOTECHNICAL TESTING IS TO BE UNDERTAKEN TO
AT LEAST LEVEL 1 CONTROL OF FILL COMPACTION
STANDARD, AS DEFINED IN AS. 3798 AS FOLLOWS

- TEST EACH 300mm LAYER ABOVE PIPE CROWN
- TEST BASE & SUB-BASE LAYERS WHERE APPLICABLE.
- TESTS SHALL BE REQUIRED AT EACH 50m CENTRES WHERE
THE LENGTH OF TRENCH IS WITHIN THE 50m REQUIREMENT.

E8. SUBMIT ALL GEOTECHNICAL TEST RESULTS TO
WARREN SMITH & PARTNERS FOR REVIEW PRIOR TO
CONTINUATION WITH SUBSEQUENT SECTION OF WORK

ROAD WORKS, DRIVEWAYS & CARPARKS

R1. ALLOW FOR LEVEL 2 TESTING AND SUB-GRADE CONDITIONS
& PAVEMENT THICKNESS TO BE VERIFIED BY
GEOTECHNICAL CONSULTANT AFTER INSPECTION
OF PRELIMINARY BOXING.

R2. ALLOW FOR ANY SUB-GRADE REPLACEMENT WORK TO BE
DETERMINED AS REQUIRED BY GEOTECHNICAL CONSULTANT
AT THE TIME OF PAVEMENT CONSTRUCTION

R3. MINIMUM DRY DENSITY RATIOS (AS 1289 3.6.1-1993) TO BE:

BASECOURSE	98% MODIFIED
SUB-BASE	95% MODIFIED
SUB-GRADE	100% STANDARD
SUB-GRADE REPLACEMENT	100% STANDARD

R4. PAVEMENT MATERIALS TO COMPLY WITH RTA SPECIFICATION
No 3051 OR SIMILAR AS APPROVED BY
GEOTECHNICAL CONSULTANT.

R5. PROVIDE (1) TEST FOR EACH LAYER NOT
EXCEEDING 250mm THICK BEING BASECOURSE,
SUB-BASE & SUB-GRADE OVER AN AREA
NOT GREATER THAN 500m²

R6. SUBMIT ALL GEOTECHNICAL TEST RESULTS TO
WARREN SMITH & PARTNERS FOR REVIEW
PRIOR TO CONTINUATION WITH SUBSEQUENT
SECTION OF WORK.

APPROVALS

A1. THE AS CONSTRUCTED WORKS SHALL BE INSPECTED
BY DESIGN CONSULTANT. MINIMUM 48 HOURS
NOTICE SHALL APPLY TO ALL INSPECTIONS.

A2. THE DESIGN PLANS HEREIN ARE SUBJECT TO
COUNCIL APPROVAL PRIOR TO CONSTRUCTION. OBTAIN
EXPRESS (WRITTEN) ADVICE TO PROCEED FROM
PROJECT MANAGER PRIOR TO COMMENCEMENT.

A3. SUBMIT WORK-AS-EXECUTED DRAWINGS IN DWG/DXF OR DXF
DIGITAL FORMAT AND HARD COPY FORMAT. VERIFY ALL
CONSTRUCTION WORKS SHOWN HEREON

A4. CERTIFY THAT THE AS CONSTRUCTED SYSTEM HAS BEEN
BUILT IN ACCORDANCE WITH THE APPROVED PLANS
ISSUED FOR CONSTRUCTION

SERVICES UNDER ROAD SURFACES

S1. ALL OTHER SERVICES INCLUDING BUT NOT LIMITED TO
WATER, HYDRANT, GAS, SEWER, ELECTRICAL AND
COMMUNICATIONS CONDUITS OR CABLES SHALL BE LAID
WITH MINIMUM 600mm U.N.O.
COVER BELOW PROPOSED ROAD SURFACE OR APPROVED
OTHER MEANS TO PROTECT DURING CONSTRUCTION.

ROAD SIGNS & LINE MARKING

RS1. ALL SIGNS AND LINEMARKING SHALL BE TO ROADS & TRAFFIC AUTHORITY
STANDARDS AND SPECIFICATIONS AND AS:1742. MANUAL OF UNIFORM
TRAFFIC CONTROL DEVICES

RS2. ALL LINEMARKING SHALL BE AUGMENTED BY RETROREFLECTIVE RAISED
PAVEMENT MARKERS (RRPMs) AND ALL SHALL BE TO AS 1742.2 - 1994
AND AS 1742.2 /AMDT 1/1997-10-05

RS3. ALL ROAD SIGNS AND POSTS SHALL BE TO AS 1742.2 - 1994
AND AS 1742.2 /AMDT 1/1997-10-05

HYDRAULIC SERVICES

H1. ALL WORKS CARRIED OUT SHALL COMPLY WITH AS-3500,
SYDNEY WATER & COUNCIL REQUIREMENTS. OBTAIN
NECESSARY AUTHORITIES APPROVALS PRIOR TO COMMENCING
WORKS.

H2. PRIOR TO COMMENCING WORKS SURVEY & INSPECT SITE &
CONFIRM LOCATION & LEVELS OF ALL HYDRAULIC SERVICES
PIPEWORK.
NO CLAIMS FOR ADDITIONAL COSTS RESULTING FROM THE
LACK OF KNOWLEDGE OF SITE CONDITIONS RELATING TO
WORKS TO BE DONE OR LOCATIONS AND LEVELS OF
EXISTING AND NEW SERVICES WILL BE ACCEPTED.

H3. PRIOR TO CAPPING OFF & REMOVAL OF REDUNDANT
SERVICES CONFIRM ON SITE THAT SERVICE IS NOT
SUPPLYING EXISTING BUILDINGS OR AMENITIES.

H4. COLD WATER PIPEWORK SHALL CONSIST OF COPPER TUBE &
FITTINGS IN ACCORDANCE WITH AS 1432 TYPE B. PIPES
AND FITTINGS SHALL BE JOINTED WITH 15% SILVER
SOLDER

H5. ALL NEW UNDERGROUND METAL PIPEWORK SHALL BE
INSTALLED WITH POLYETHYLENE SLEEVING OBTAINED FROM
"TYCO WATER AUST" AND INSTALLED TO MANUFACTURE'S
REQUIREMENTS

H6. LANDSCAPE IRRIGATION WATERING PIPEWORK SHALL CONSIST
OF MEDIUM DENSITY POLYETHYLENE PIPE CLASS PN16 WITH
ELECTRO FUSION JOINTS OR EQUAL TO EXISTING PIPEWORK.

RESTORATION:

RES1. RESTORE ALL TRAFFIC AREAS TO PRE EXISTING CONDITION.

RES2. FOR ALL SURFACES OTHER THAN IN TRAFFIC AREAS
RESTORE DISTURBED SURFACES TO PRE-EXISTING
CONDITIONS AND COMPACT AS SPECIFIED.

RES3. RESTORE ALL AUTHORITY OWNED AREAS
TO COUNCIL STANDARDS

PROTECTION OF FLORA - REFER SPECIFICATION

1. ANY TRENCHES WITHIN 3m OF TREES SHALL BE
HAND DUG TO AVOID DAMAGE TO TREE ROOTS

2. THE SEWERAGE WORKS HAVE BEEN LOCATED TO MINIMISE CLEARING
AND DAMAGE TO THE EXISTING FLORA ENVIRONMENT. NO TREES ARE
PERMITTED TO BE REMOVED OR DAMAGED UNO. CONSTRUCTION OF THE
SEWER GRAVITY OR RISING MAIN IN THE VICINITY OF EXISTING TREES
SHALL BE HAND EXCAVATED ONLY, ENSURING IRREVERSIBLE
DAMAGE OF THE ROOT SYSTEM DOES NOT OCCUR

3. IF IT IS CONSIDERED NECESSARY TO PERFORM ANY WORK ON TREES,
INCLUDING TRIMMING, LOPPING, ROOT CUTTING, REPAIR AND REMOVAL,
APPLICATION IN WRITING SHALL BE MADE BY THE CONTRACTOR TO THE
SUPERINTENDENT.
ANY WORK PERMITTED TO BE DONE ON TREES TO BE RETAINED SHALL
BE PERFORMED BY AN APPROVED TREE SURGEON

4. NO MATURE TREES OR SHRUBS ARE TO BE REMOVED FOR THE PURPOSES OF
THE WORKS WITHOUT PRIOR APPROVAL OF THE BLACKTOWN CITY COUNCIL

COUNCIL STANDARDS

1. THE DRAWINGS HEREIN SHALL BE READ IN
CONJUNCTION WITH COUNCIL'S STANDARDS &
SPECIFICATIONS WHICH SHALL OVERRIDE SPECIAL
DETAILS SHOWN ON THE DRAWINGS

TRAFFIC NOTE:

1. A TRAFFIC CONTROL PLAN IS TO BE PREPARED BY AN
ACCREDITED RTA TRAFFIC CONTROLLER AND SUBMITTED TO
COUNCIL. THIS TRAFFIC PLAN IS TO BE CERTIFIED BY AND
IMPLEMENTED TO THE SATISFACTION OF AN ACCREDITED RTA
TRAFFIC CONTROLLER PRIOR TO COMMENCEMENT OF WORK

2. ALL TRAFFIC CONTROL WORKS SHALL ONLY BE CARRIED OUT BY
ACCREDITED RTA TRAFFIC CONTROLLERS

CLOSED CIRCUIT COLOUR TV (CCTV)

CCTV 1. UNDERTAKE A CCTV INSPECTION OF ALL THE COMPLETED
DRAINAGE IN ACCORDANCE WITH THE GUIDELINES OF THE
AUSTRALIAN CONDUIT CONDITION EVALUATION MANUAL (ACCEMS

CCTV 2. APPLY THE FOLLOWING REQUIREMENTS TO THE CCTV
INSPECTION -

A. USE DATA CAPTURE SOFTWARE APPROVED BY SYDNEY
WATER

B. USE CERTIFIED CCTV OPERATORS

C. THE CCTV VIDEOTAPE SHALL BE OF QUALITY TO ALLOW
CCTV 3. ACCURATE ASSESSMENT OF THE INTERNAL CONDITION OF THE
PIPE.

FURNISH TO THE DESIGN CONSULTANT:-

A. TWO (2) VIDEO TAPES

B. ONE SET OF SURVEY DATA ON 3 1/2 DISKETTE

C. ONE HARD COPY PRINTOUT OF THE SURVEY DATA

REINFORCED CONCRETE

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH
AS3600, THE SAA STANDARDS CITED IN AS3600, THE DRAWINGS AND
THE SPECIFICATION

2. ALL CONCRETE SHALL BE 80mm SLUMP, 20mm MAXIMUM
AGGREGATE WITH NO ADMIXTURES OR FLY ASH UNLESS APPROVED
BY THE ENGINEER. ALL CONCRETE TO HAVE TYPE SL PORTLAND
CEMENT WITH NO FLY ASH

3. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY
WHERE SHOWN OR APPROVED BY THE ENGINEER

4. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT
NECESSARILY SHOWN IN TRUE PROJECTION

5. THE CONCRETE STRENGTH SHALL COMPLY WITH THE FOLLOWING

ELEMENT	MIN CEMENT CONTENT (kg/m³)	SLUMP (mm)	NOM MAX AGGREGATE SIZE (mm)	GRADE DESIGNATION (Mpa)
REINFORCED CONCRETE	360	80	20	SL32
MASS CONCRETE	250	80	20	N20
PILES	360	80	20	N40

6. NO PENETRATIONS, RECESSES OR CHASES OTHER THAN THOSE
SHOWN ON THE DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS

7. ALL EDGES TO HAVE 20mm CHAMFERS, WHERE VISIBLE IN THE FINISHED WORK

PROTECTION OF TREES

T1. WHERE STORMWATER DRAINAGE IS LAID IN THE VICINITY
OF TREES / CANOPIES OF TREES, ALLOW THE
CONSULTANT ARBORIST TO INSPECT PROGRESSIVELY THE
EXCAVATION AND CONSTRUCTION WORKS.

DEVELOPMENT APPLICATION

DO NOT SCALE FROM DRAWINGS. CHECK & VERIFY ALL DIMENSIONS & LEVELS BEFORE COMMENCEMENT OF ANY WORK.

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NORTH POINT

NOTES
1. FOR DRAWING LIST, LEGEND, ABBREVIATIONS & SPECIFICATIONS REFER TO DRAWING C-201 & C-202.

ISSUE	AMENDMENT	DATE	ISSUE	AMENDMENT	DATE
A	PRELIMINARY ISSUE	23.10.09			
B	DEVELOPMENT APPLICATION	27.11.09			
C	ROAD NO. N1 ADJUSTED AND ISSUED FOR DEVELOPMENT APPLICATION	09.12.09			

CLIENT
RSL LIFECARE LTD

PROJECT
RSL ANZAC VILLAGE
NARRABEEN, NSW
NEW DARBY & JOAN

Warren Smith & Partners Pty Ltd
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SERVING THE CONSTRUCTION INDUSTRY SINCE 1981
Consulting Engineers
Hydraulic Services | Civil Engineering | Fire Protection |
Sydney Water Accredited - Water Servicing Co-ordinator
- Design and Project Management

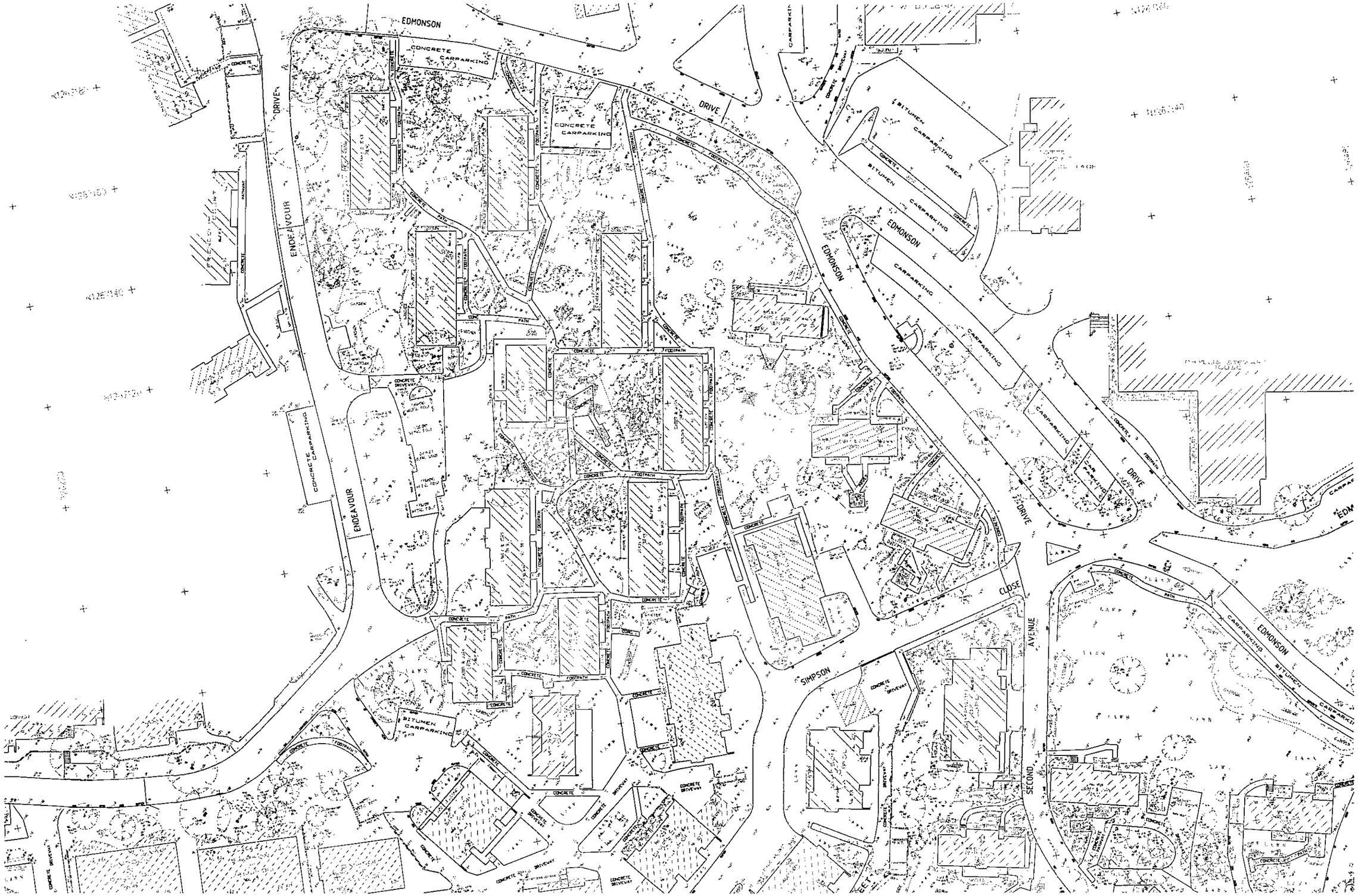
TITLE
GENERAL
SPECIFICATION NOTES

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	C.M.	M.C.	M.C.	L.P.

DATE	DRAWING No.	ISSUE
SEP 2009	C-202	C

JOB No. 3442

SHEET SIZE A0



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ISSUE	AMENDMENT	DATE
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C	ROAD NO. 01 ADJUSTED AND ISSUED FOR DEVELOPMENT APPLICATION	09.12.09

ISSUE	AMENDMENT	DATE

CLIENT
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TITLE
EXISTING SURVEY PLAN

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
1:250	C.H.	H.C.	H.C.	L.P.

DATE	DRAWING No.	ISSUE
SEP 2009	C-203	C

JOB No. 3442

SHEET SIZE A0

DEVELOPMENT APPLICATION

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B	DEVELOPMENT APPLICATION	27.11.09			
C	ROAD NO. N1 ADJUSTED AND ISSUED FOR DEVELOPMENT APPLICATION	09.12.09			

CLIENT
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PROJECT
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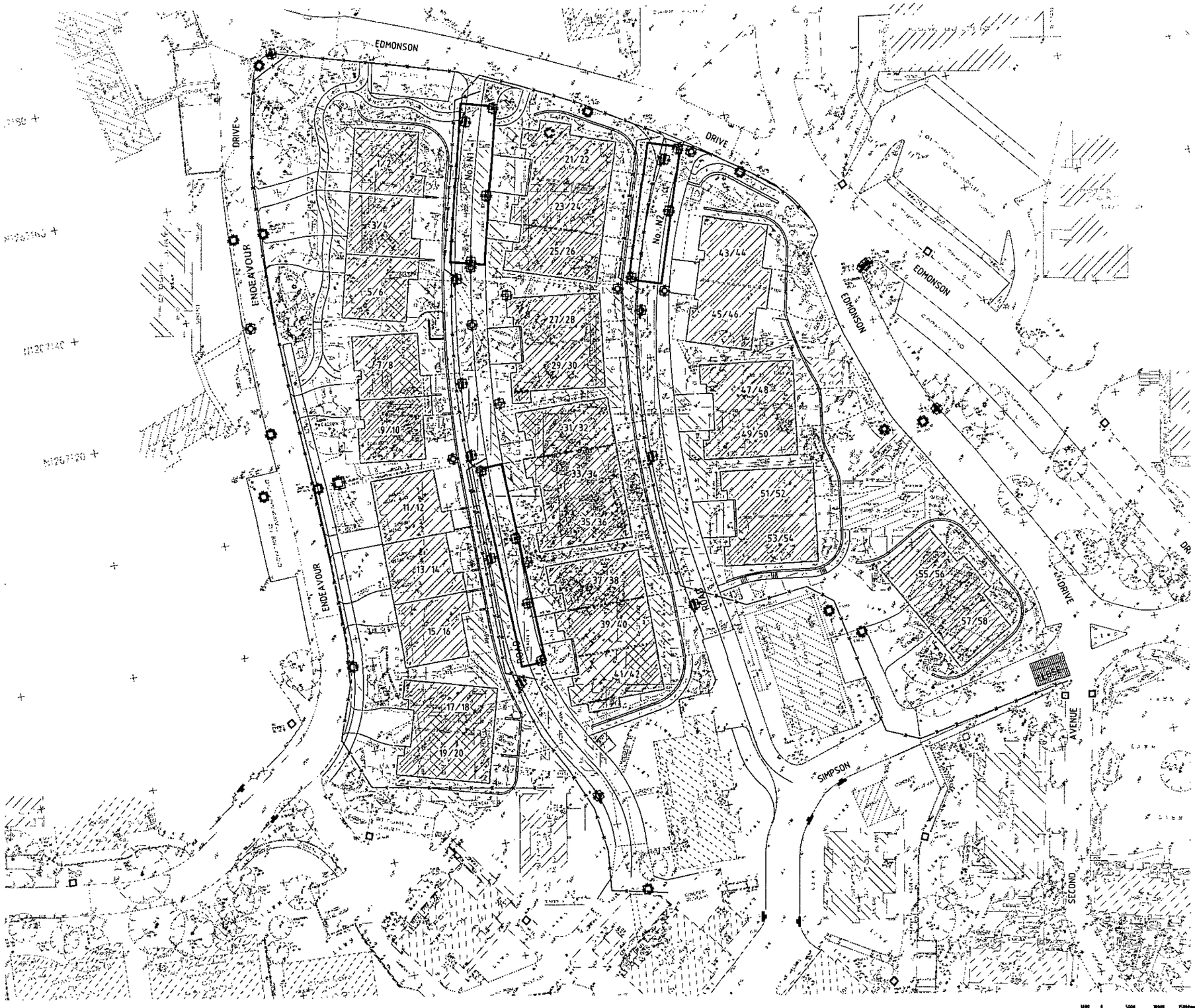
Hydraulic Services | Civil Engineering | Fire Protection | Sydney Water Accredited - Water Servicing Co-ordinator
- Design and Project Management

TITLE
BULK EARTHWORKS PLAN

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
1:250	C.H.	H.C.	H.C.	L.P.
DATE SEP 2009	DRAWING No. C-204		ISSUE C	
JOB No. 3442				

SHEET SIZE A0



SCALE 1:250

LEGEND

- DIVERSION DRAIN
- SAND BAGS OR ROCK FACED WITH GEOTEXTILE CHECK DAMS
- SEDIMENT CONTROL FENCE (GEOTEXTILE FILTER OR HAY BALE)
- STORMWATER PIT SEDIMENT TRAP (GEOTEXTILE FILTER OR HAY BALE OR SAND BAGS)
- GEOTEXTILE FILTER BAGS AROUND EXISTING STORMWATER PIT
- TEMPORARY CONSTRUCTION VEHICLE EXIT
- SPOIL STOCKPILE (LOCATIONS TO BE AGREED ON SITE)

DEVELOPMENT APPLICATION

DO NOT SCALE FROM DRAWINGS. CHECK & VERIFY ALL DIMENSIONS & LEVELS BEFORE COMMENCEMENT OF ANY WORK.

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ISSUE	AMENDMENT	DATE	ISSUE	AMENDMENT	DATE
A	PRELIMINARY ISSUE	23.08.09			
B	DEVELOPMENT APPLICATION	27.11.09			
C	ROAD NO. N1 ADJUSTED AND ISSUED FOR DEVELOPMENT APPLICATION	09.12.09			

CLIENT: RSL LIFECARE LTD

PROJECT: RSL ANZAC VILLAGE
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Hydraulic Services I Civil Engineering I Fire Protection I Sydney Water Accredited • Water Servicing Co-ordinator • Design and Project Management

TITLE: EROSION & SEDIMENT CONTROL PLAN

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
1:250	C.M.	M.C.	M.C.	L.P.
DATE: SEP 2009	DRAWING No. C-205		ISSUE: C	
JOB No. 3442				

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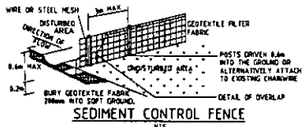
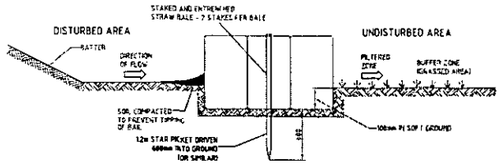


SEDIMENT CONTROL FENCE
NTS



TYPICAL STRAW BALE SECTION
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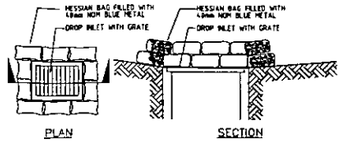
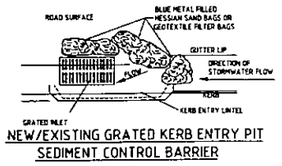
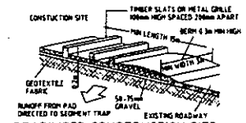


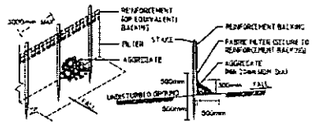
HESSIAN BAG DROP INLET SEDIMENT TRAP
NTS



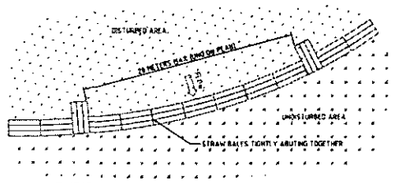
NEW/EXISTING GRATED KERB ENTRY PIT SEDIMENT CONTROL BARRIER
NTS



STABILISED CONSTRUCTION SITE VEHICLE ENTRY/EXIT
NTS



SEDIMENT FENCE DETAIL FOR ROCKY GROUND
NTS



TYPICAL STRAW BALE LAYOUT PLAN
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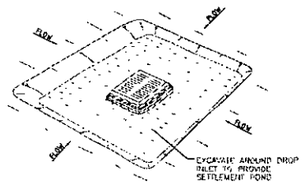
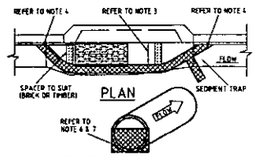


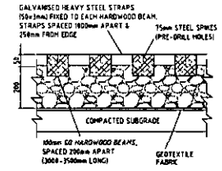
EXCAVATED SEDIMENT TRAP
NTS

EXCAVATED SEDIMENT TRAP NOTES -

1. REMOVE THE SEDIMENT WHEN IT HAS ACCUMULATED TO HALF THE DESIGN DEPTH OF THE TRAP AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
2. PROVIDE 50 m^3/Ha OF SEDIMENT STORAGE VOLUME.
3. REFER TO THE MAINTENANCE REQUIREMENTS.



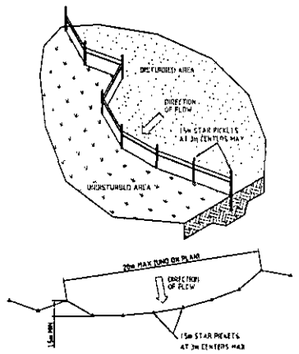
GEOTEXTILE FILTER BAGS
NTS



VEHICLE SHAKER GRID
NTS

SITE ENTRY/EXIT CONSTRUCTION NOTES -

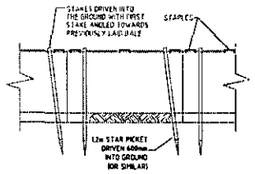
1. STRIP TOP SOIL & LEVEL SITE. PROVIDE CATCH DRAIN AT SIDES TO DIRECT RUNOFF WATER TO SEDIMENT TRAPS.
2. COMPACT SUBGRADE AND REMOVE ANY HIGH POINTS.
3. COVER AREA WITH GEOTEXTILE FABRIC. THIS MAY BE WOVEN OR NEEDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (ASTM4.4-96) OF 2500 N.
4. CONSTRUCT 200mm THICK RUBBLE PAD OVER GEOTEXTILE USING ROAD BASE OR 30-40mm AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES. CONSTRUCT 300mm HIGH HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT TRAP.
5. WHERE GRIDS ARE USED FIRST CONSTRUCT A 150 THICK PAD OVER GEOTEXTILE FABRIC. LEVEL THIS IN BOTH DIRECTIONS. LOWER GRID ON TO THE PREPARED BASE AND ENSURE THAT NO PART IS SITTING ON ANY HIGH POINTS. BACKFILL THE SPACES BETWEEN THE GRIDS TO WITHIN 50mm OF THE TOP.
6. PROVIDE RAMPS AT ENDS AND SIDE OF GRIDS. IF DEPRESSIONS OCCUR IN THE RAMPS DURING USE, ADD ADDITIONAL MATERIAL.



SEDIMENT FENCE LAYOUT PLAN
NTS

SEDIMENT FENCE NOTES -

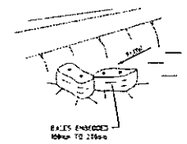
1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE OR AT THE TOE OF A SLOPE.
2. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND SUFFICIENT TO PROVIDE RIGID SUPPORT, 3 METERS APART, WHERE THERE IS INSUFFICIENT SOIL DEPTH OVER ROCK, HOLES ARE TO BE DRILLED INTO ROCK TO ACCEPT THE STAR PICKETS.
3. ON SOFT GROUND MATERIALS, DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
4. BACKFILL TRENCH OVER BASE OF FABRIC & COMPACT.
5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY THE GEOTEXTILE MANUFACTURER. USE A REINFORCEMENT BACKING WITH NON SELF-SUPPORTING GEOTEXTILE FABRIC.
6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
7. ON HARD OR ROCKY GROUND, SMOOTH A 500mm WIDE STRIP UPSLOPE OF THE FENCE LINE. TURN THE BOTTOM 500mm OF THE FABRIC UPSLOPE AND ANCHOR IN PLACE WITH SUITABLE AGGREGATE.
8. WHERE A SEDIMENT FENCE IS CONSTRUCTED DOWN SLOPE FROM A DISTURBED BATTER THE FENCE SHOULD BE LOCATED 1.5 TO 2.0 METERS DOWN SLOPE FROM THE TOE OF THE BATTER.



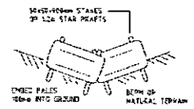
TYPICAL STRAW BALE DETAIL
NTS

STRAW BALE NOTES -

1. CONSTRUCT STRAW BALE FILTER AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE OR AT THE TOE OF A SLOPE.
2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS TO BE PLACED PARALLEL TO GROUND.
3. MAXIMUM HEIGHT OF FILTER IS ONE BALE.
4. ON SOFT MATERIALS, EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS. ANGLE THE FIRST STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BAL. DRIVE STAKES 600mm INTO THE GROUND AND FLUSH WITH THE TOP OF THE BALES.
5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWN SLOPE FROM A DISTURBED BATTER THE BALES SHOULD BE LOCATED 1.5 TO 2.0 METERS DOWN SLOPE FROM THE TOE OF THE BATTER.
6. WHERE REQUIRED WRAP GEOTEXTILE FILTER FABRIC AROUND BALES AND STAPLE IN POSITION.



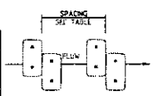
VIEW OF CHECK DAM



CHECK DAM SECTION

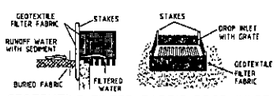
CHECK DAM SPACING TABLE

LOGITUDINAL GRADE (%)	SPACING (METERS)
0 - 5	40
5 - 10	30
10 - 15	20
GREATER THAN 15	10

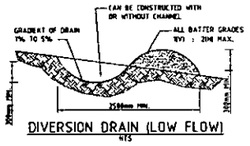


CHECK DAM PLAN

STRAW BALE CHECK DAM DETAILS
NTS



GEOTEXTILE FILTER FABRIC DROP INLET SEDIMENT TRAP
NTS



DIVERSION DRAIN (LOW FLOW)
NTS

DIVERSION DRAIN NOTES -

1. CONSTRUCT WITH GRADIENT OF 1 PER CENT TO 5 PER CENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE.
3. DRAINS TO BE OF CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTION NOT V SHAPED.
4. EARTH BANKS TO BE ADEQUATELY COMPACTED IN ORDER TO PREVENT FAILURE.
5. PERMANENT OR TEMPORARY STABILISATION OF THE EARTH BANK TO BE COMPLETED WITHIN 10 DAYS OF CONSTRUCTION.
6. ALL OUTLETS FROM DISTURBED LANDS ARE TO FEED INTO A SEDIMENT BASIN OR SIMILAR.
7. DISCHARGE RUN OFF COLLECTED FROM UNDISTURBED LANDS ONTO EITHER A STABILISED OR AN UNDISTURBED DISPOSAL SITE WITHIN THE SAME SUBCATCHMENT AREA FROM WHEN THE WATER ORIGINATED.
8. COMPACT BANK WITH A SUITABLE IMPLEMENT IN SITUATIONS WHERE THEY ARE REQUIRED TO FUNCTION FOR MORE THAN FIVE DAYS.
9. EARTH BANKS TO BE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT WILL IMPEDE NORMAL FLOW.

SEDIMENT BARRIER FOR PITS & PIPES NOTES -

1. SLEEVES ARE TO BE MADE FROM GEOTEXTILE FABRIC LONGER THAN THE LENGTH OF THE INLET PIT.
2. FILL SLEEVE WITH 5 OR 10mm CLEAN GRAVEL.
3. PLACE THE SLEEVE AT THE OPENING OF THE KERB INLET LEAVING A 100mm GAP TO ACT AS AN EMERGENCY OVERFLOW.
4. SLEEVE MUST BE PLACED AGAINST THE KERB TO PREVENT BYPASS.
5. FIT SLEEVE TO ALL INLETS DOWNSTREAM OF THE WORKS.
6. FOR DRAINAGE WORKS FIT GEOTEXTILE FABRIC OR GEO BAGS TO UPSTREAM FACE OF ALL OPEN PIPES.
7. MAINTAIN AN OPENING AT THE TOP OF THE PIPE OF 1/3 OF THE PIPE DIAMETER.
8. THE FILTERS ARE TO BE CLEANED AND MAINTAINED DAILY.
9. ALL CARE SHOULD BE TAKEN TO MINIMISE SEDIMENT REACHING THE STORMWATER SYSTEM BY MINIMISING EXCAVATION WORKS AND PREVENTING EXCESS WATER FLOW THROUGH WORKS.

MAINTENANCE REQUIREMENTS:-

1. ACCUMULATED SILT & SEDIMENT MUST BE REMOVED AT REGULAR INTERVALS AND AFTER EACH MAJOR STORM.
2. SILT & SEDIMENT MUST BE REMOVED FROM OFF THE SITE OR TO A COUNCIL APPROVED LOCATION WITHIN THE SITE, WHERE IT WILL NOT ERODE.
3. THE SEDIMENT FENCES, BALES & TRAPS SHALL BE REGULARLY INSPECTED, ESPECIALLY AFTER RAIN AND KEPT IN GOOD REPAIR AND FUNCTIONING CONDITION AT ALL TIMES.
4. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT SEDIMENT, EROSION & WATER POLLUTION SHALL BE MINIMISED.
5. THE SEDIMENT TRAPS SHALL BE REMOVED AND THE AREA STABILISED WHEN THE CONSTRUCTION AREA HAS BEEN PROPERLY STABILISED.

DEVELOPMENT APPLICATION

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NORTH POINT

NOTES
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ISSUE	AMENDMENT	DATE	ISSUE	AMENDMENT	DATE
A	PRELIMINARY ISSUE	23.10.09			
B	DEVELOPMENT APPLICATION	27.11.09			
C	ROAD NO. H1 ADJUSTED AND ISSUED FOR DEVELOPMENT APPLICATION	09.12.09			

CLIENT
RSL LIFECARE LTD

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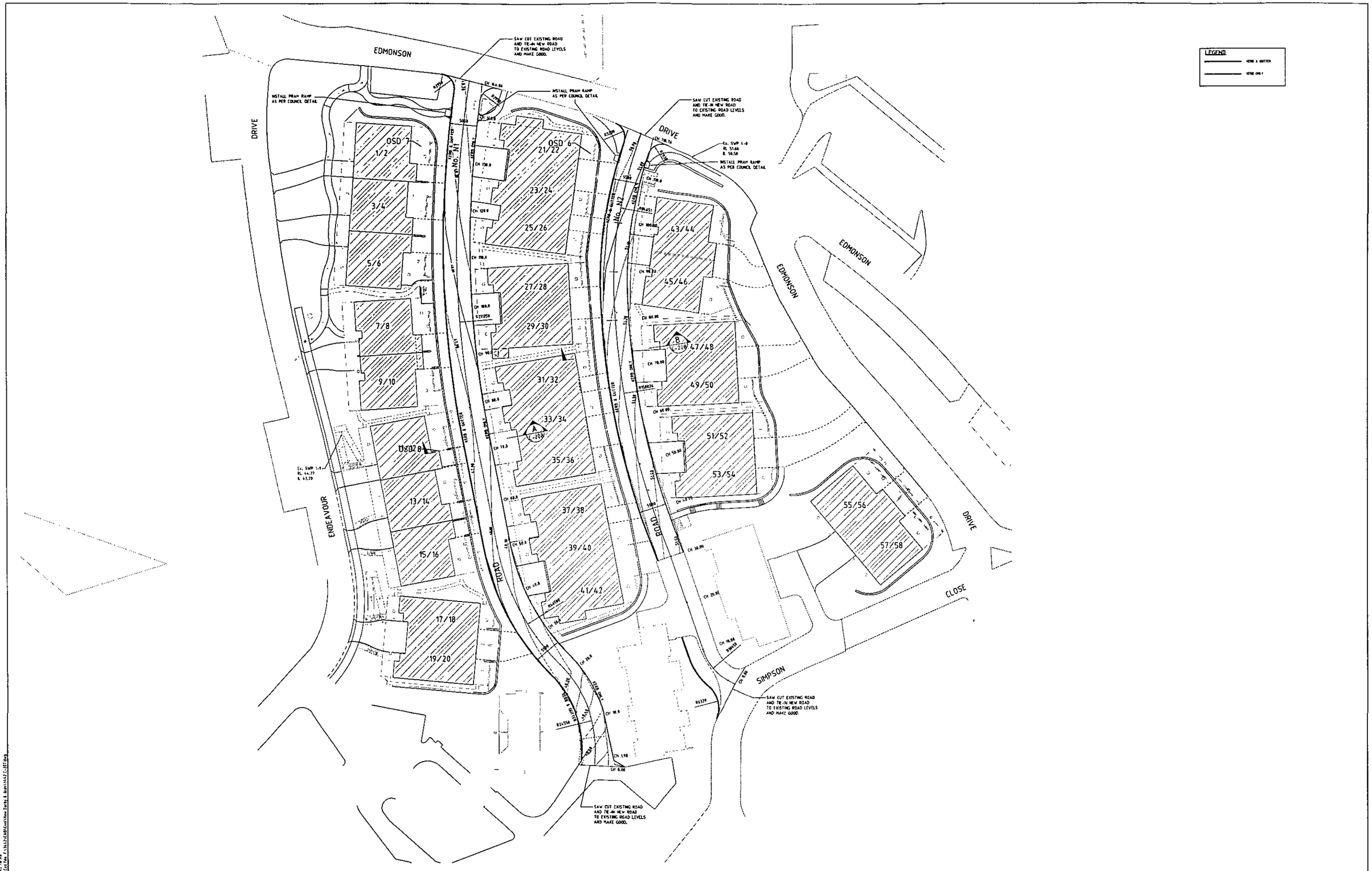
TITLE
EROSION & SEDIMENT CONTROL DETAILS

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
1:250	C.H.	C.H.	H.C.	L.P.
DATE SEP 2009	DRAWING No. C-206		ISSUE C	
JOB No. 3442				

A0



DEVELOPMENT APPLICATION

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ISSUE	AMENDMENT	DATE
A	PRELIMINARY ISSUE	23.10.09
B	DEVELOPMENT APPLICATION	27.11.09
C	ROAD NO. N1 ADJUSTED AND ISSUED FOR DEVELOPMENT APPLICATION	09.12.09

CLIENT: RSL LIFECARE LTD

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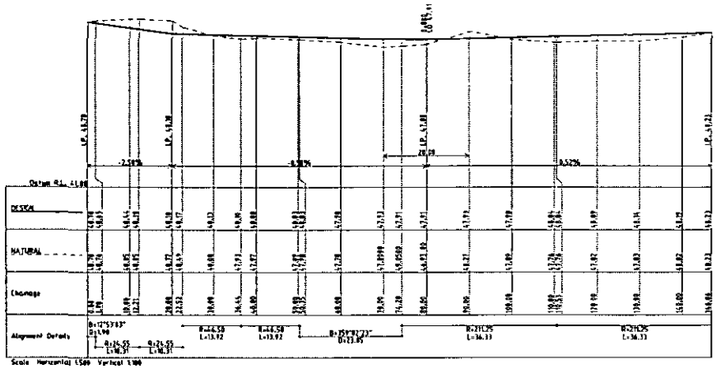
TITLE: ROAD & LEVELS PLAN

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
1:250	C.H.	M.C.	M.C.	L.P.

DATE	DRAWING No.	ISSUE
SEP 2009	C-207	C

JOB No. 3442

SHEET SIZE A0



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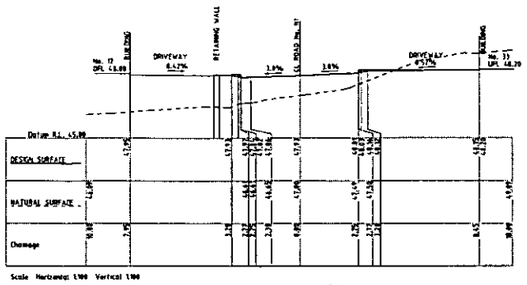
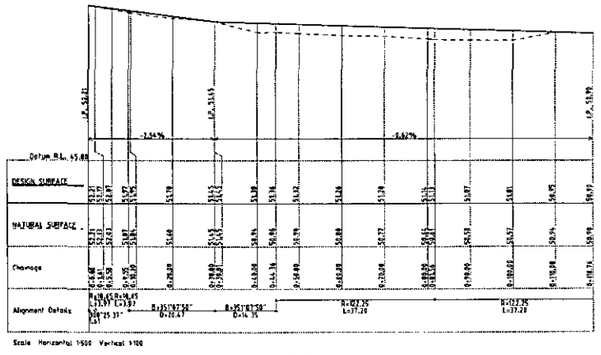
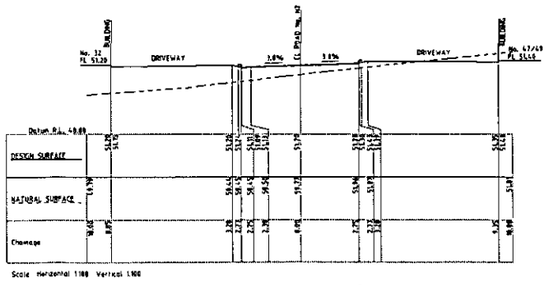


TYPICAL CROSS SECTION A / C-207

1 : 100



ROAD No. N2



TYPICAL CROSS SECTION B / C-207

1 : 100

DEVELOPMENT APPLICATION

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ISSUE	AMENDMENT	DATE	ISSUE	AMENDMENT	DATE
A	PRELIMINARY ISSUE	23.10.09			
B	DEVELOPMENT APPLICATION	23.10.09			
C	ROAD NO. N1 ADJUSTED AND ISSUED FOR DEVELOPMENT APPLICATION	09.12.09			

CLIENT
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TITLE
LONGITUDINAL & TYPICAL CROSS SECTIONS

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	C.H	C.H.	M.C.	L.P.
DATE SEP 2009	DRAWING No. C-208		ISSUE C	

JOB No. 3442

A0

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ISSUE	AMENDMENT	DATE
A	PRELIMINARY ISSUE	23.10.09
B	DEVELOPMENT APPLICATION	27.11.09
C	ROAD NO. 101 ADJUSTED AND ISSUED FOR DEVELOPMENT APPLICATION	09.12.09

ISSUE	AMENDMENT	DATE

CLIENT: RSL LIFECARE LTD

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TITLE: PAVEMENT PLAN

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
1:250	C.H.	M.C.	M.C.	L.P.

DATE	DRAWING No.	ISSUE
SEP 2009	C-209	C

JOB No. 3442

SHEET SIZE A0

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for
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Young + Metcalf Architects
Building 2
6a Liverpool Street - (PO Box 18)
Paddington NSW 2021
Tel (02) 9360 9799 Fax (02) 9360 9864
Email: young_metcalf@bigpond.com
PROJECT # 0908

DRAWING REGISTER

A1 dwg size		**Scale**
DA2.00	SURVEY (PREPARED BY OTHERS)	1:250
DA2.01	SITE MASTER PLAN	1:750
DA2.02	SITE DEMOLITION + SURVEY PLAN	1:250
DA2.03	SITE PLAN NORTH	1:200
DA2.04	SITE PLAN SOUTH LEVEL 1	1:200
DA2.05	SITE PLAN NORTH LEVEL 2	1:200
DA2.06	SITE PLAN SOUTH LEVEL 2	1:200
DA2.07	SITE PLAN NORTH LEVEL 3	1:200
DA2.08	SITE PLAN SOUTH LEVEL 3	1:200
DA2.09	SITE PLAN NORTH LEVEL 4	1:200
DA2.10	NOT USED	
DA2.11	NOT USED	
DA2.12	NOT USED	
DA2.13	SITE SECTIONS	1:200
DA2.14	SITE SECTIONS	1:200
DA2.15	ILU— TOWNHOUSE PLANS + ELEVATIONS	1:100
DA2.16	ILU— TOWNHOUSE PLANS + ELEVATIONS	1:100

A3 dwg size		
SK01	SITE ANALYSIS PLAN	1:600
SK02.1	SHADOW DIAGRAM	1:600
SK02.2	SHADOW DIAGRAM	1:600
SK02.3	SHADOW DIAGRAM	1:600
SK03	TYPICAL ENSUITE LAYOUT	1:40
SK04	TYPICAL KITCHEN LAYOUT	1:40

DA ISSUE

DECEMBER 2009

LEGEND

NOTE:
SURVEY PREPARED BY
BEE & LETHBRIDGE PTY LTD

Suites 2 and 3, 14 Starkey Street
Forestville NSW 2087

ABN 13 003 194 447
P: 9451 6757 F: 9975 3535

A	DA SUBMISSION	11.12.09

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www.youngandmetcalf.com.au

Drawing Title:
Survey
(PREPARED BY OTHERS)

Scale: 1:250 @ A1	Drawing No. DA2.00
Status: DA	
Date: 11.12.09	Issue: A
Project No: 0908	
Plot Date: 11/12/09	

COLOOLI ROAD

VILLAGE CENTRE

EDMONDSON DRIVE

ENDEAVOUR DRIVE

NEW DARBY & JOAN

CHILDCARE CENTRE

EDMONDSON DRIVE

EDMONDSON DRIVE

EDMONDSON DRIVE

CLOSE

SIMPSON

WHEELER STREET

JAGER AVENUE

SECOND AVENUE

FIRST AVENUE

OLD DARBY & JOAN

BOUNDARY

VETERANS PARADE

LANTANA AVENUE

THIS PLAN IS TO BE READ IN CONJUNCTION WITH

DA 2009 / 1695

WARRINGAH COUNCIL

LEGEND

A	DA SUBMISSION	11.12.09

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RSL ANZAC VILLAGE
NEW DARBY + JOAN

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Drawing Title:

Site Master Plan

Scale: 1:750 @ A1	Drawing No.
Status: DA	DA2.01
Date: 11.12.09	Issue:
Project No: 0908	A
Plot Date:	11/12/09

LEGEND

- DEMOLISH ALL STRUCTURES
- T60 TREE NUMBERS TO ARBORISTS REPORT
- EXISTING TREES TO BE RETAINED
- TREES TO BE DEMOLISHED
- TREES WITH HIGH PRIORITY RETENTION TO BE DEMOLISHED

NOTE:
SURVEY PREPARED BY
BEE & LETHBRIDGE PTY LTD

Suites 2 and 3, 14 Starkey Street
Forestville NSW 2087

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A	DA SUBMISSION	11.12.09

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Drawing Title:
Demolition Plan

Scale: 1:250 @ A1	Drawing No. DA2.02
Status: DA	
Date: 11.12.09	Issue: A
Project No: 0908	
Plot Date:	11/12/09

EDMONDSON DRIVE

ENDEAVOUR DRIVE

FRIENDSHIP COURT

EXISTING ON GRADE PARKING

CONCRETE CARPARKING

1 U:45.40

3 U:45.40

5 U:45.40

7 U:45.00

9 U:45.00

11 U:45.00

13 U:45.00

15

THIS PLAN IS TO BE READ IN CONJUNCTION WITH DA 2009 / 1695

WARRINGAH COUNCIL

FOR CONTINUATION REFER TO DRAWING DA2.04

LEGEND

- EXISTING LEVELS
- PROPOSED LEVELS
- U: 62.00 UNIT FLOOR LEVELS (UNDER)
- O: 65.00 UNIT FLOOR LEVELS (OVER)
- T60 TREE NUMBERS TO ARBORISTS REPORT
- EXISTING TREES TO BE RETAINED
- VP VISITOR PARKING
- LB 22 LETTER BOX
- G GARBAGE BIN STORE
- PATHS GRATER THAN 1:20 TO HAVE HANDRAILS AS PER AS 1428.1

A	DA SUBMISSION	11.12.09

Project North

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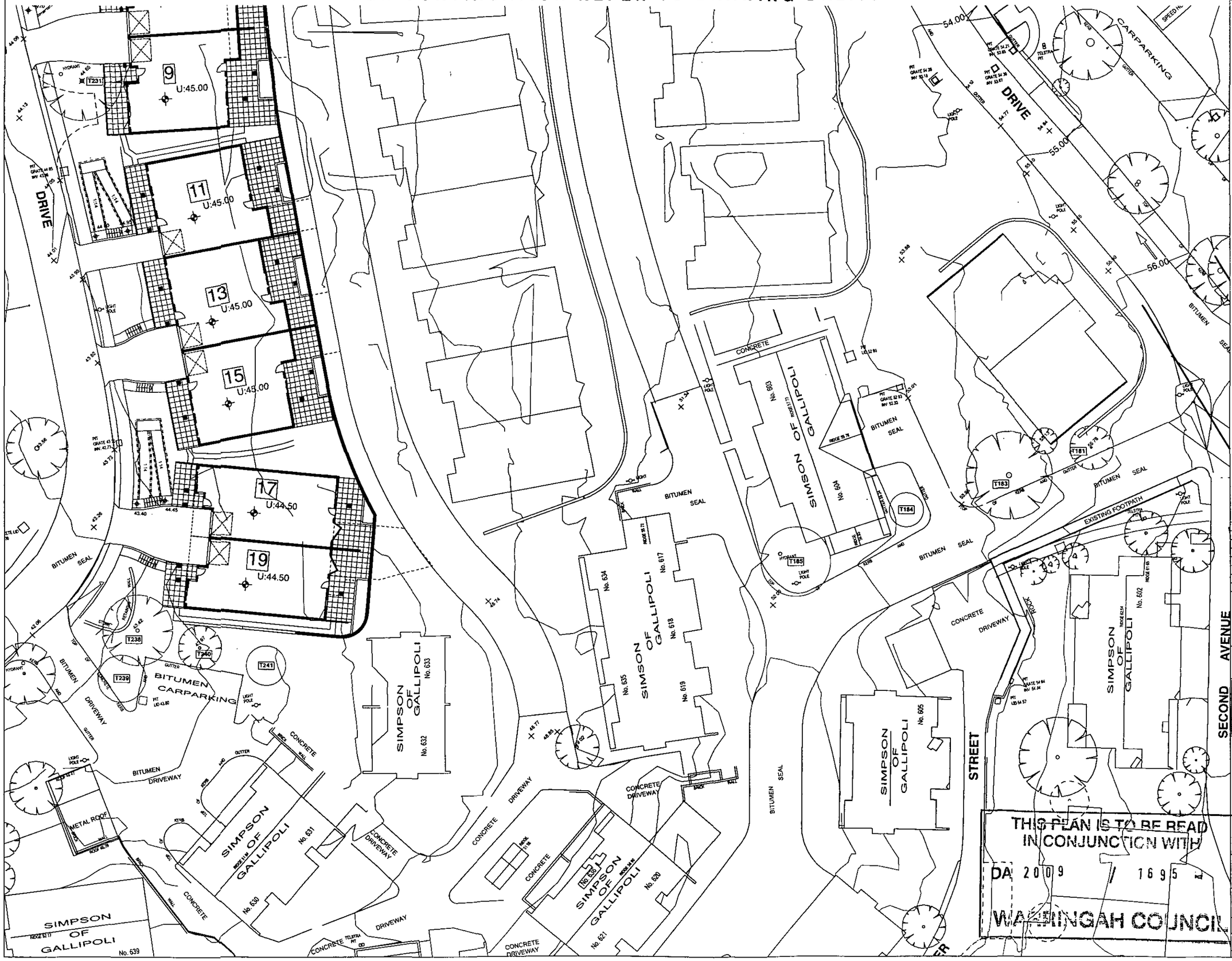
Drawing Title: Site Plan North L1

Scale:	1:200 @ A1	Drawing No.	DA2.03
Status:	DA		
Date:	11.12.09	Issue:	A
Project No:	0908		
Plot Date:	11/12/09		

FOR CONTINUATION REFER TO DRAWING DA2.03



THIS PLAN IS TO BE READ IN CONJUNCTION WITH

DA 2009 / 1695

WARRINGAH COUNCIL

LEGEND

- EXISTING LEVELS
- PROPOSED LEVELS
- U: 62.00 UNIT FLOOR LEVELS (UNDER)
- O: 65.00 UNIT FLOOR LEVELS (OVER)
- T60 TREE NUMBERS TO ARBORISTS REPORT
- EXISTING TREES TO BE RETAINED
- VP VISITOR PARKING
- LB 22 LETTER BOX
- G GARBAGE BIN STORE
- PATHS GRATER THAN 1:20 TO HAVE HANDRAILS AS PER AS 1428.1

A	DA SUBMISSION	11.12.09

Project North

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Drawing Title:
Site Plan South L1

Scale: 1:200 @ A1	Drawing No. DA2.04
Status: DA	
Date: 11.12.09	Issue: A
Project No: 0908	
Plot Date: 11/12/09	

EDMONDSON DRIVE

ENDEAVOUR DRIVE

FRIENDSHIP COURT

EXISTING ON GRADE PARKING

CONCRETE CARPARKING

SHARED PEDESTRIAN AND VEHICULAR ZONE

2 O: 48.40
4 O: 48.40
6 O: 48.40
8 O: 48.00
10 O: 48.00
12 O: 48.00
14 O: 48.00
16
21 U: 48.40
23 U: 48.40
25 U: 48.40
27 U: 48.20
29 U: 48.20
31 U: 48.20
33 U: 48.20
35 U: 48.20
37 U: 48.20
39

THIS PLAN IS TO BE READ IN CONJUNCTION WITH DA 2009 / 1695

WARRINGAH COUNCIL

FOR CONTINUATION REFER TO DRAWING DA2.06

LEGEND

- EXISTING LEVELS
- PROPOSED LEVELS
- U: 62.00 UNIT FLOOR LEVELS (UNDER)
- O: 65.00 UNIT FLOOR LEVELS (OVER)
- T60 TREE NUMBERS TO ARBORISTS REPORT
- EXISTING TREES TO BE RETAINED
- VP VISITOR PARKING
- LB 22 LETTER BOX
- G GARBAGE BIN STORE
- PATHS GRATER THAN 1:20 TO HAVE HANDRAILS AS PER AS 1428.1

A	DA SUBMISSION	11.12.09

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Drawing Title:
Site Plan North L2

Scale: 1:200 @ A1	Drawing No. DA2.05
Status: DA	
Date: 11.12.09	Issue: A
Project No: 0908	
Plot Date: 11/12/09	

FOR CONTINUATION REFER TO DRAWING DA2.05

10 O: 48.00
12 O: 48.00
14 O: 48.00
16 O: 48.00
18 O:47.50
20 O:47.50
31 U: 48.20
33 U: 48.20
35 U: 48.20
37 U: 48.20
39 U: 48.20
41 U: 48.20

SHARED PEDESTRIAN AND VEHICULAR ZONE

DRIVE

CARPARKING

BITUMEN CARPARKING

BITUMEN SEAL

CONCRETE DRIVEWAY

EXISTING FOOTPATH

SIMSON OF GALLIPOLI No. 603

SIMSON OF GALLIPOLI No. 604

SIMSON OF GALLIPOLI No. 605

SIMSON OF GALLIPOLI No. 602

SIMSON OF GALLIPOLI No. 634

SIMSON OF GALLIPOLI No. 635

SIMSON OF GALLIPOLI No. 633

SIMSON OF GALLIPOLI No. 632

SIMSON OF GALLIPOLI No. 631

SIMSON OF GALLIPOLI No. 630

SIMSON OF GALLIPOLI No. 639

SIMSON OF GALLIPOLI No. 621

SIMSON OF GALLIPOLI No. 620

SIMSON OF GALLIPOLI No. 619

SIMSON OF GALLIPOLI No. 618

SIMSON OF GALLIPOLI No. 617

SECOND AVENUE STREET

THIS PLAN IS TO BE READ IN CONJUNCTION WITH

DA 2009 / 1695

WARRINGAH COUNCIL

LEGEND

68.34	EXISTING LEVELS
61.00	PROPOSED LEVELS
U: 62.00	UNIT FLOOR LEVELS (UNDER)
O: 65.00	UNIT FLOOR LEVELS (OVER)
T60	TREE NUMBERS TO ARBORISTS REPORT
	EXISTING TREES TO BE RETAINED
VP	VISITOR PARKING
LB 22	LETTER BOX
G	GARBAGE BIN STORE
	PATHS GRATER THAN 1:20 TO HAVE HANDRAILS AS PER AS 1428.1

A	DA SUBMISSION	11.12.09

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Drawing Title:
Site Plan South L2

Scale: 1:200 @ A1	Drawing No. DA2.06
Status: DA	
Date: 11.12.09	Issue: A
Project No: 0908	
Plot Date: 11/12/09	

EDMONDSON DRIVE

ENDEAVOUR DRIVE

EDMONDSON

FRIENDSHIP COURT No. 1 No. 2 No. 10 No. 11

EXISTING ON GRADE PARKING

CONCRETE CARPARKING

SHARED PEDESTRIAN AND VEHICULAR ZONE

22 U: 51.40
24 U: 51.40
26 U: 51.40
28 U: 51.20
30 U: 51.20
32 U: 51.20
34 U: 51.20
36 U: 51.20
38 U: 51.20
40
43 U: 51.20
45 U: 51.20
47 U: 51.40
49 U: 51.40
51 U: 51.40
53 U: 51.40
55

VP1 VP2 VP3 VP4 VP13 VP14 VP15 VP16

EX17 EX18 EX19 EX20

T196 T197 T198 T199 T215 T218 T220 T221 T222 T223(4) T224 T225 T226 T227 T228 T231

THIS PLAN IS TO BE READ IN CONJUNCTION WITH DA 2009 / 1608

WARRINGAH COUNCIL

FOR CONTINUATION REFER TO DRAWING DA2.08

LEGEND

- EXISTING LEVELS
- PROPOSED LEVELS
- U: 62.00 UNIT FLOOR LEVELS (UNDER)
- O: 65.00 UNIT FLOOR LEVELS (OVER)
- T60 TREE NUMBERS TO ARBORISTS REPORT
- EXISTING TREES TO BE RETAINED
- VP VISITOR PARKING
- LB 22 LETTER BOX
- G GARBAGE BIN STORE
- PATHS GRATER THAN 1:20 TO HAVE HANDRAILS AS PER AS 1428.1

A	DA SUBMISSION	11.12.09

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Drawing Title:
Site Plan North L3

Scale: 1:200 @ A1	Drawing No. DA2.07
Status: DA	
Date: 11.12.09	Issue: A
Project No: 0908	
Plot Date: 11/12/09	

FOR CONTINUATION REFER TO DRAWING DA2.07

32 U: 51.20
34 U: 51.20
36 U: 51.20
38 U: 51.20
40 U: 51.20
42 U: 51.20
49 U: 51.40
51 U: 51.40
53 U: 51.40
55 U: 53.00
57 U: 53.00

SHARED PEDESTRIAN AND VEHICULAR ZONE

DRIVE

CARPARKING

BITUMEN CARPARKING

BITUMEN SEAL

CONCRETE DRIVEWAY

SIMPSON OF GALLIPOLI No. 639

SIMPSON OF GALLIPOLI No. 630

SIMPSON OF GALLIPOLI No. 631

SIMPSON OF GALLIPOLI No. 632

SIMPSON OF GALLIPOLI No. 633

SIMPSON OF GALLIPOLI No. 634

SIMPSON OF GALLIPOLI No. 635

SIMPSON OF GALLIPOLI No. 617

SIMPSON OF GALLIPOLI No. 618

SIMPSON OF GALLIPOLI No. 619

SIMPSON OF GALLIPOLI No. 620

SIMPSON OF GALLIPOLI No. 621

SIMPSON OF GALLIPOLI No. 605

SIMPSON OF GALLIPOLI No. 602

SIMPSON OF GALLIPOLI No. 693

SIMPSON OF GALLIPOLI No. 694

T231 T238 T239 T240 T241 T161 T183 T184 T185

THIS PLAN IS TO BE READ IN CONJUNCTION WITH

DA 2009 / 1695

WARRINGAH COUNCIL

LEGEND

69.54	EXISTING LEVELS
61.00	PROPOSED LEVELS
U: 62.00	UNIT FLOOR LEVELS (UNDER)
O: 65.00	UNIT FLOOR LEVELS (OVER)
T60	TREE NUMBERS TO ARBORISTS REPORT
	EXISTING TREES TO BE RETAINED
VP	VISITOR PARKING
LB 22	LETTER BOX
G	GARBAGE BIN STORE
	PATHS GRATER THAN 1:20 TO HAVE HANDRAILS AS PER AS 1428.1

A	DA SUBMISSION	11.12.09

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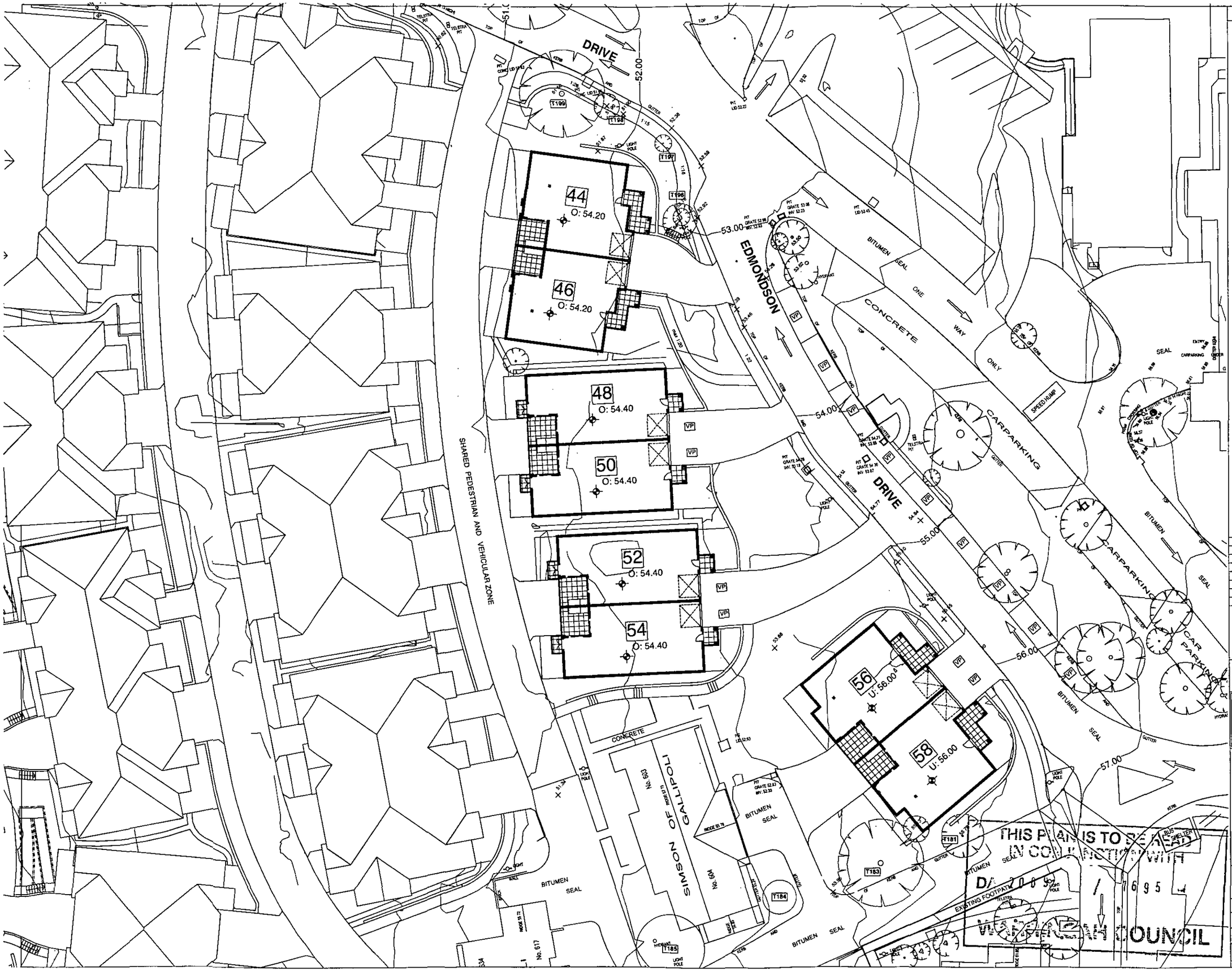
Drawing Title:
Site Plan South L3

Scale:	1:200 @ A1	Drawing No.	DA2.08
Status:	DA		
Date:	11.12.09	Issue:	A
Project No:	0908		
Plot Date:	11/12/09		



LEGEND

A	DA SUBMISSION	11.12.09

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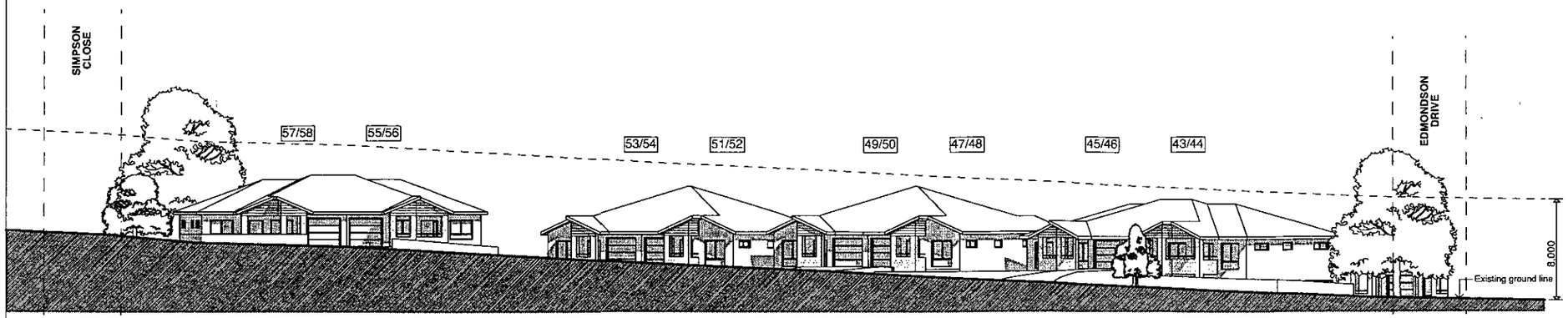
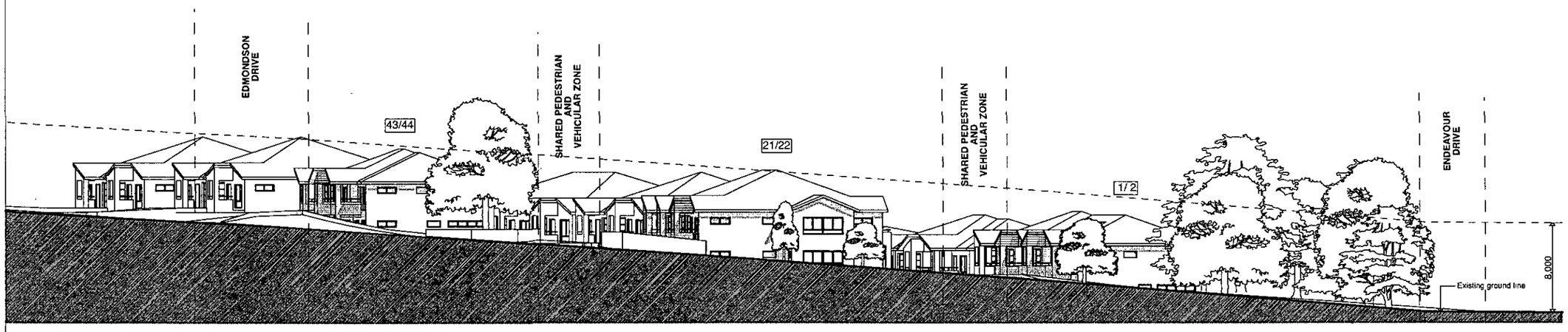
Drawing Title:
Site Plan North L4

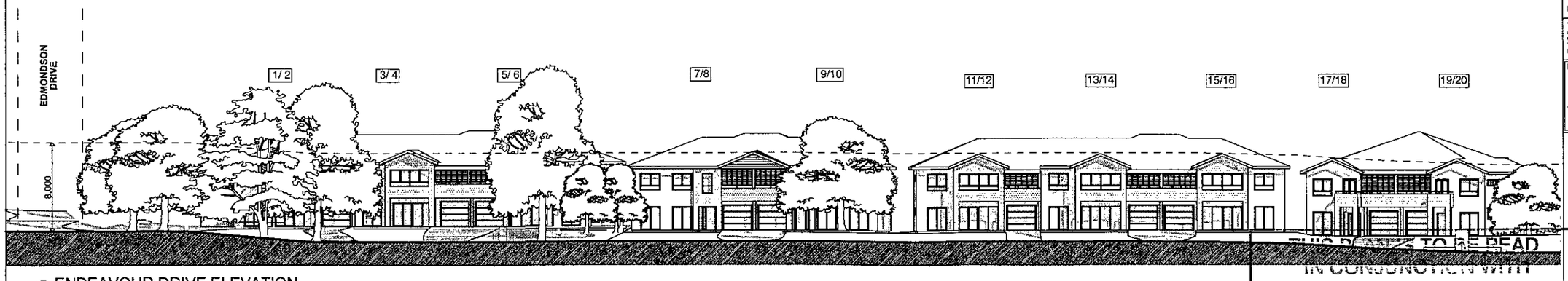
Scale: 1:200 @ A1	Drawing No.
Status: DA	**DA2.09**
Date: 11.12.09	Issue: **A**
Project No: 0908	
Plot Date:	11/12/09



1 EDMONDSON DRIVE - VIEW TO THE WEST
1:200



2 EDMONDSON DRIVE - VIEW TO THE SOUTH
1:200



3 ENDEAVOUR DRIVE ELEVATION
1:200

DA 2009 / 1695
WARRINGAH COUNCIL

LEGEND

NOTE:

ALL TREES SHOWN ARE EXISTING

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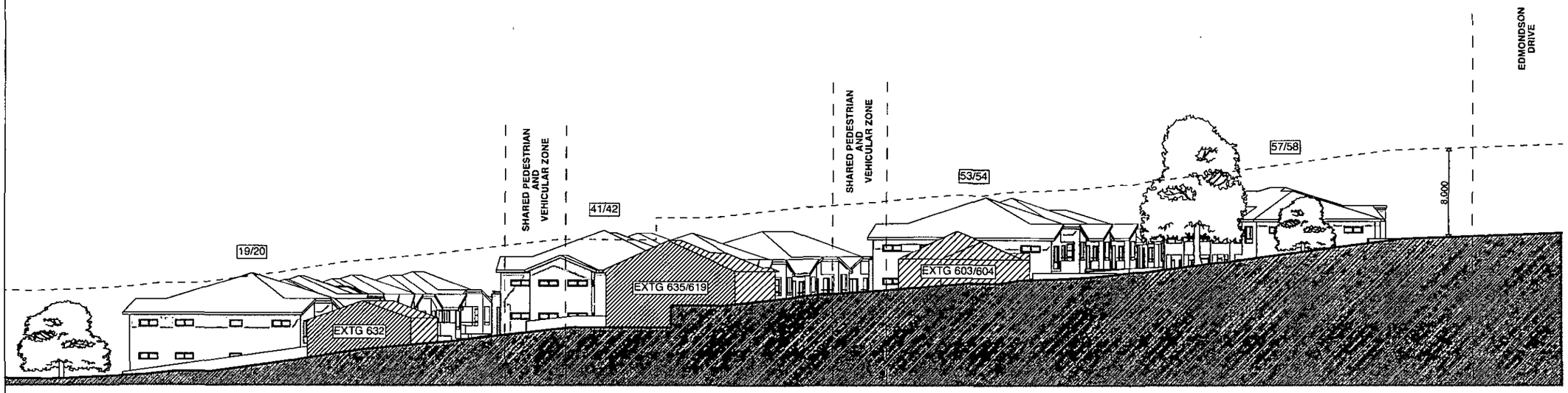
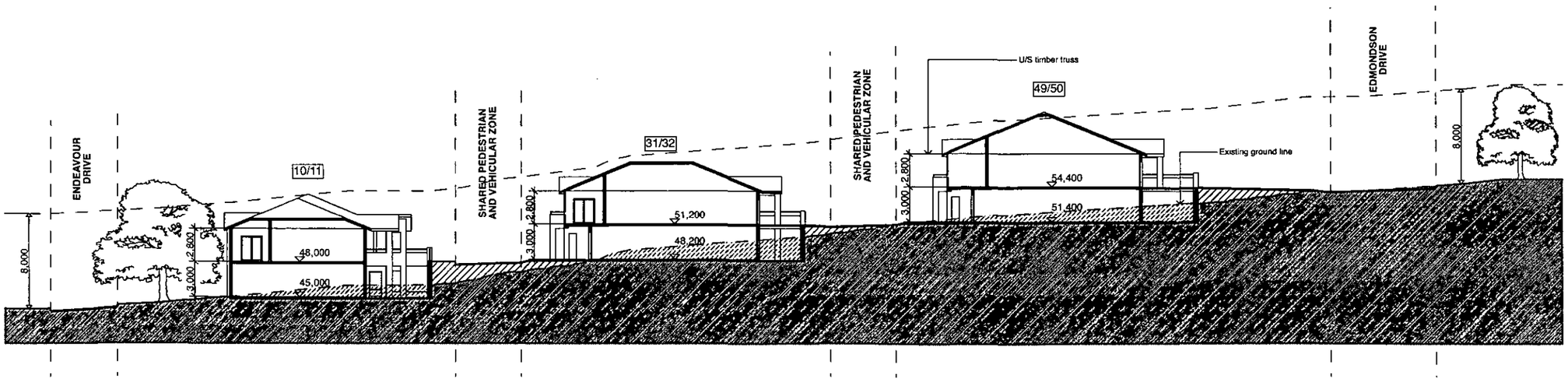
Drawing Title:
Site Sections

Scale: 1:200 @A1	Drawing No.
Status: DA	DA2.13
Date: 11.12.09	Issue:
Project No: 0908	A
Plot Date: 11/12/09	



1 SECTION THROUGH SIMPSON CLOSE
1:200



2 SECTION A
1:200

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IN CONJUNCTION WITH

DA 2009 / 1695

WARRINGAH COUNCIL

LEGEND

A	DA SUBMISSION	11.12.09

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Drawing Title:
Site Sections

Scale: 1:200 @A1	Drawing No. DA2.14
Status: DA	
Date: 11.12.09	Issue: A
Project No: 0908	
Plot Date: 11/12/09	