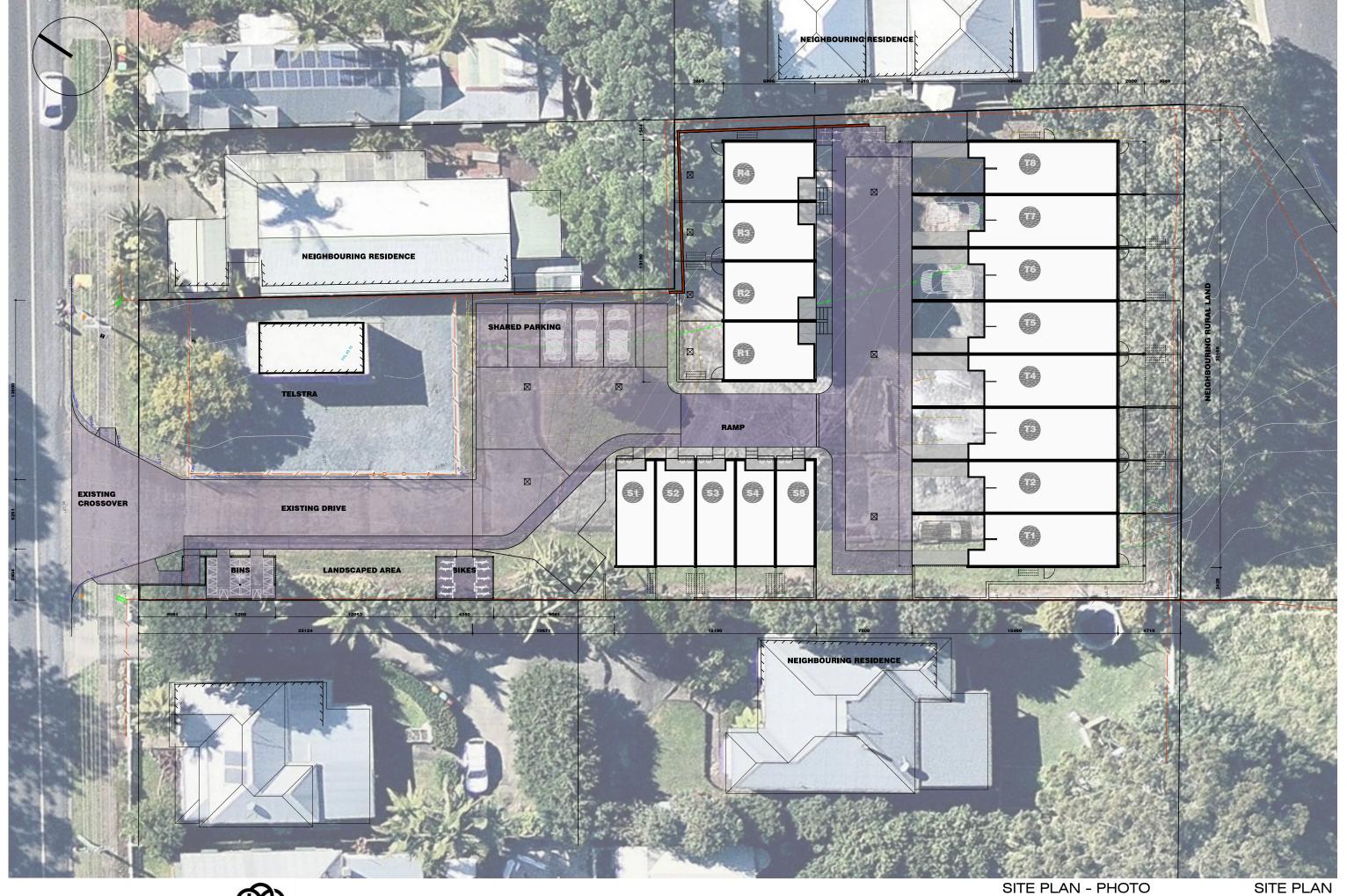


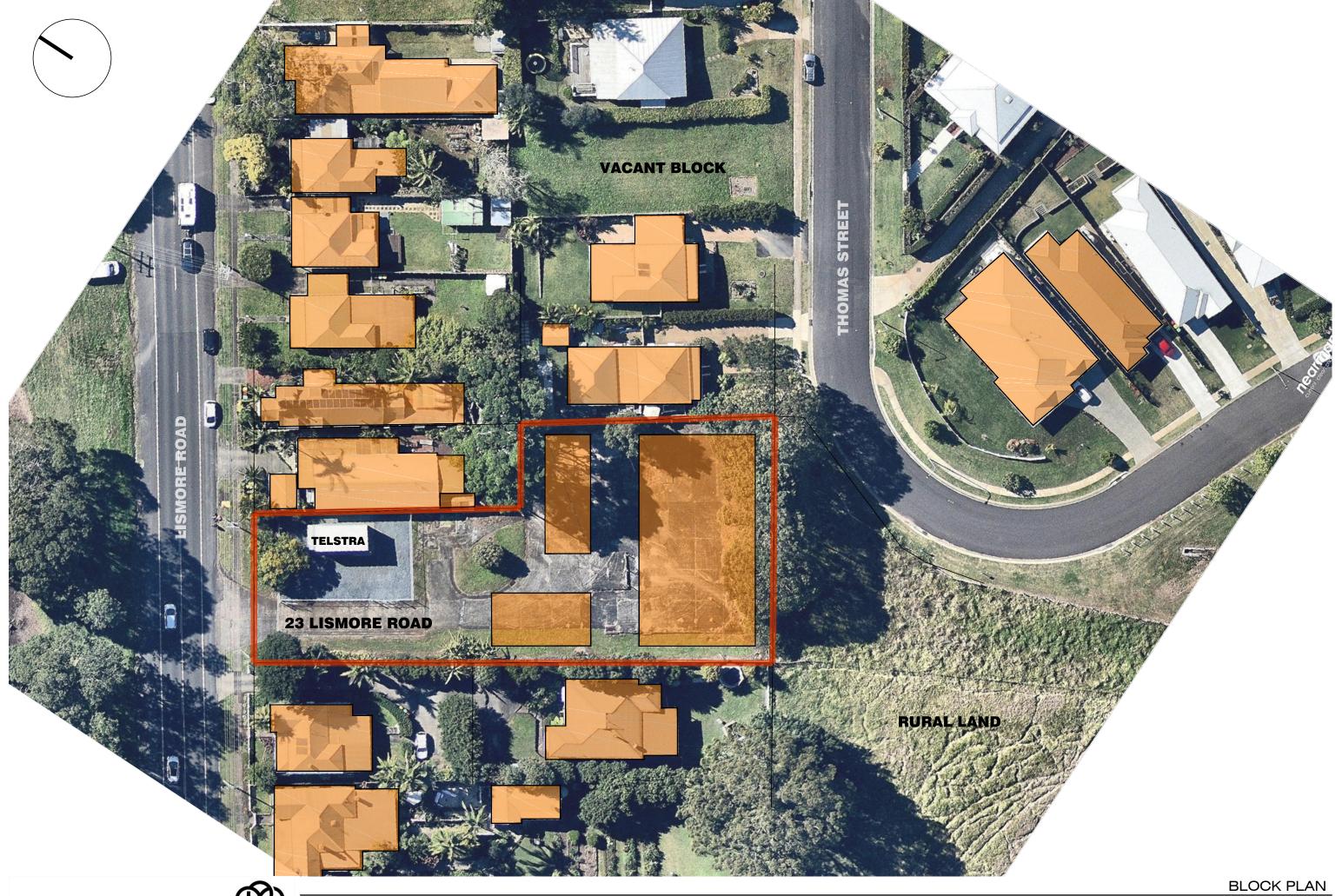


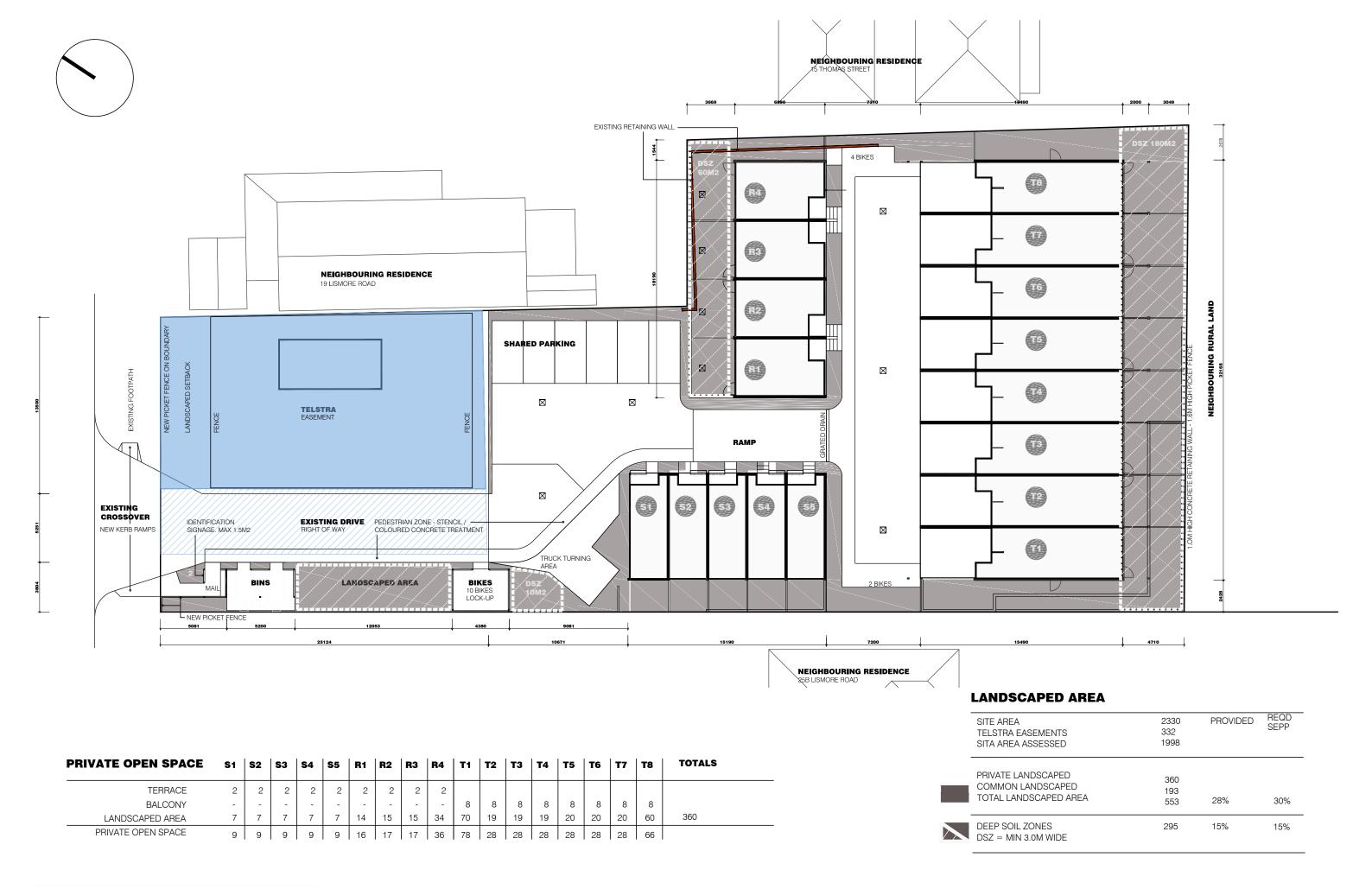
SITE PLAN



#kollective [

SITE PLAN - PHOTO



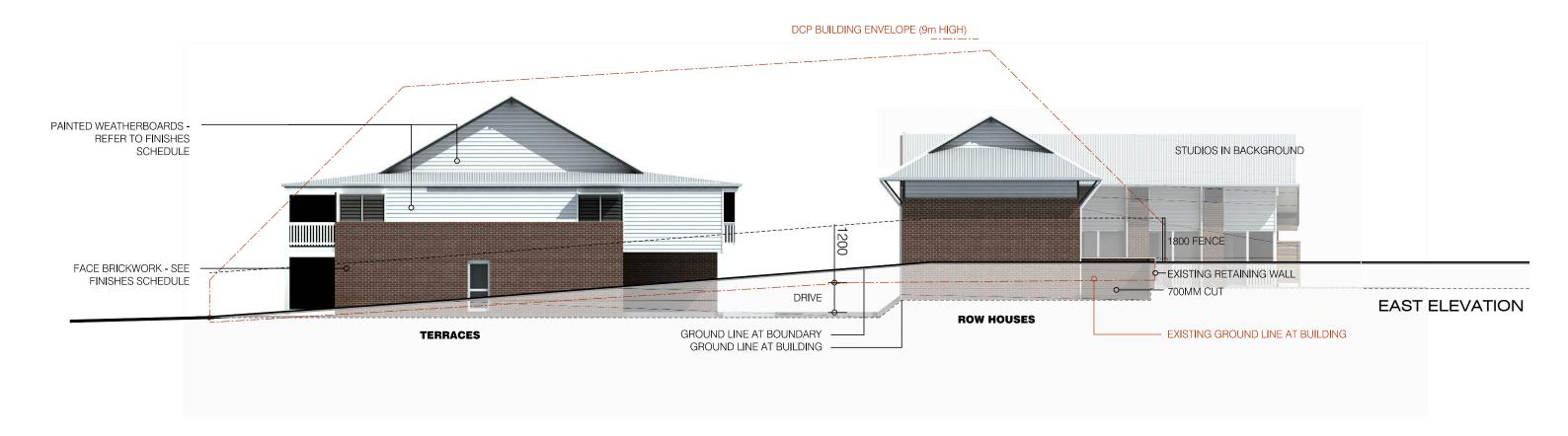


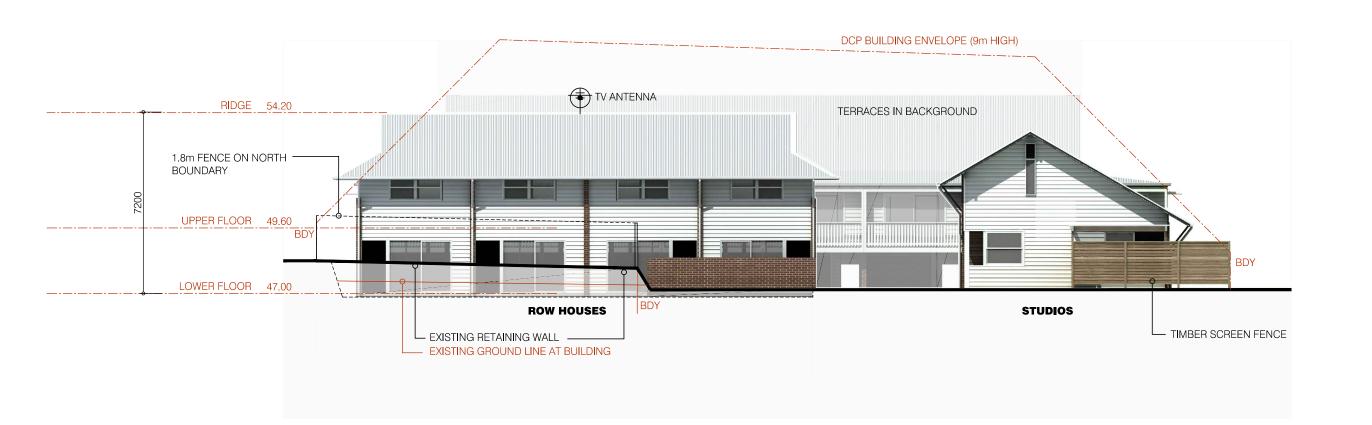






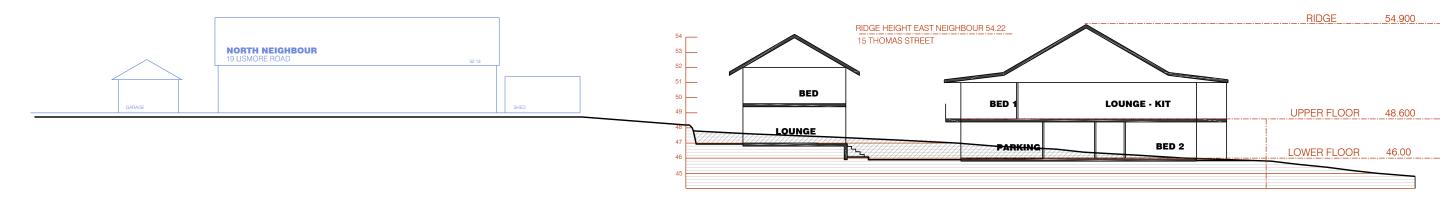




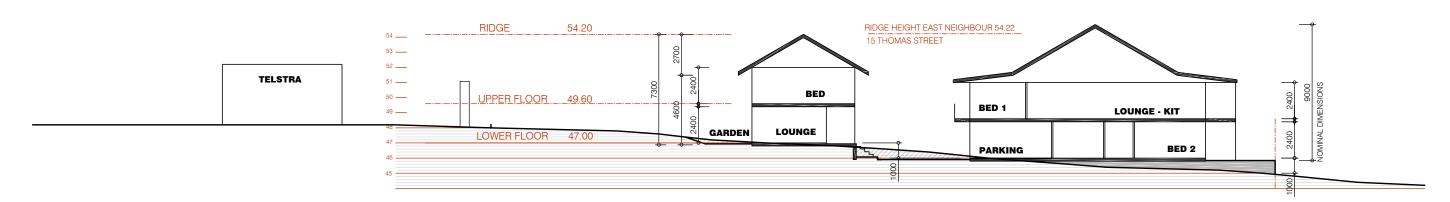


**NORTH ELEVATION** 

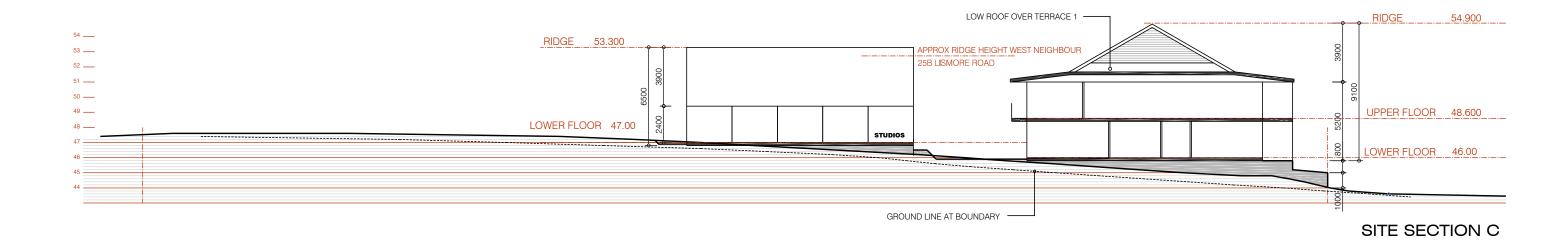




## SITE SECTION A

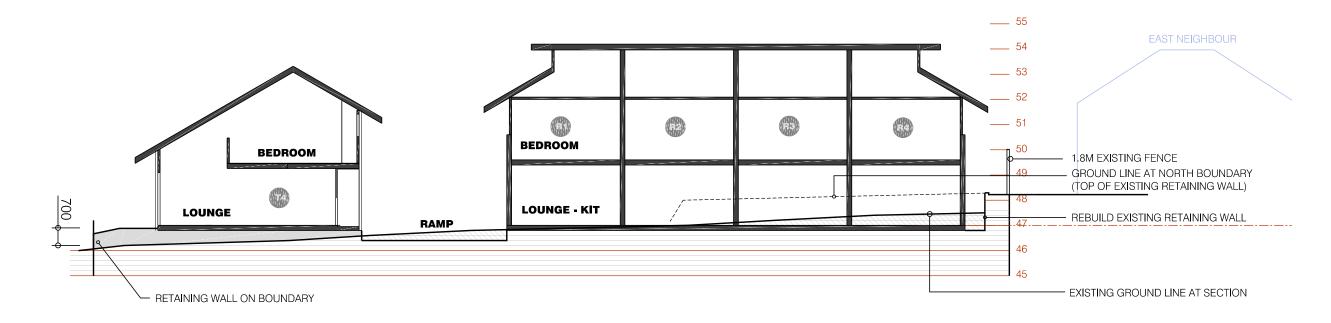


SITE SECTION B





SITE SECTIONS



# SITE SECTION D

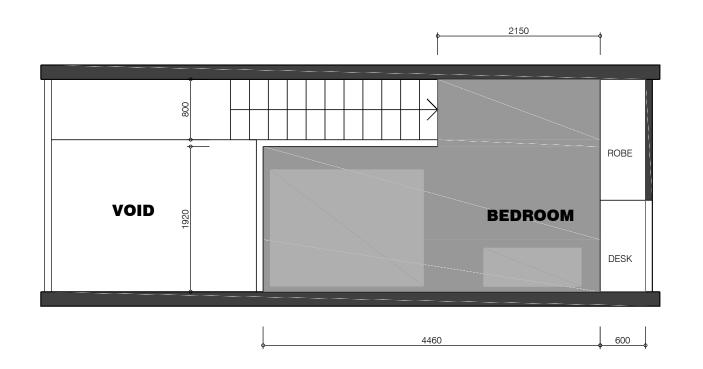


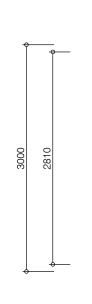
**EXTERNAL FINISHES** 

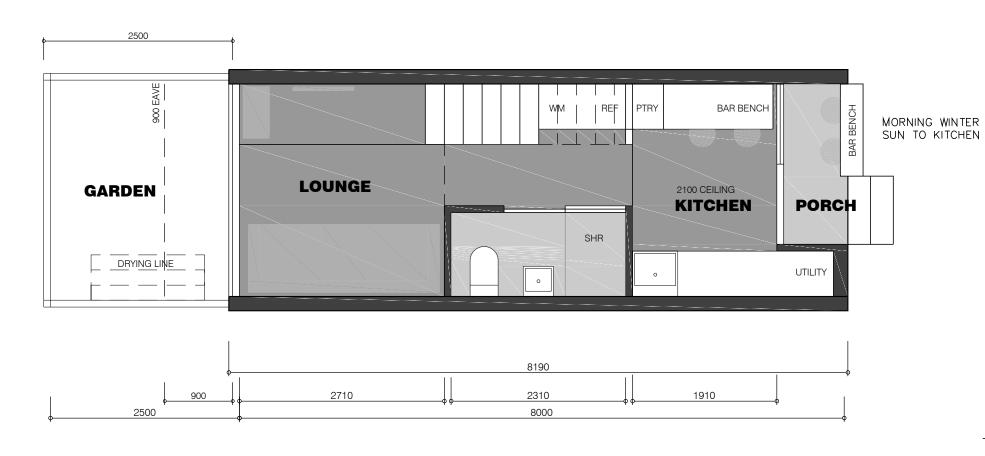






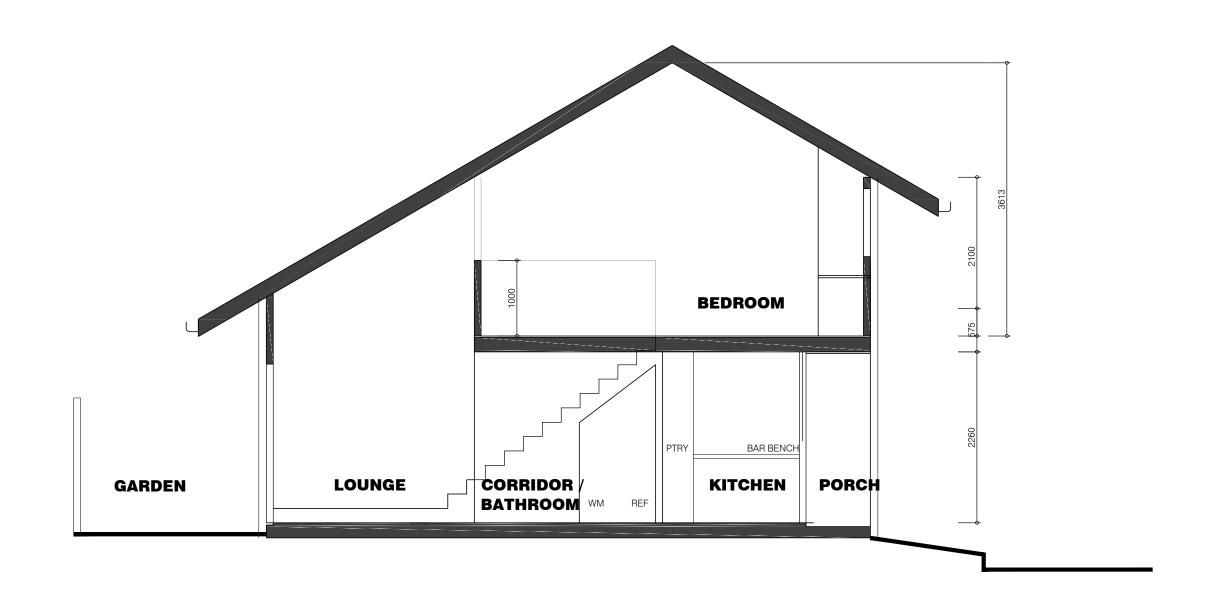






BEDROOMS	1
LOWER FLOOR GFA	20
UPPER FLOOR GFA	12
TOTAL GFA	32
BALCONY - PORCH	2





#### 23 Lismore Street Bangalow SUMMARY OF BASIX COMMITMENTS FOR EACH UNIT This is a summary of the BASIX Commitments as detailed in the BASIX Certificate. Refer to the CURRENT BASIX Certificate for Complete details. For definitions refer to basix.nsw.gov.au WATER COMMITMENTS Fixtures 3 Star Shower Heads Yes (> 4.5 but <= 6L/min) 3 Star Kitchen / Basin Taps Yes 3 Star Toilet Yes Alternative Water 3000 Collected from Roof Area (m2) Minimum Tank Size (L) Tank Connected To: All Toilets Laundry W/M Cold Tap No One Outdoor Tap THERMAL COMFORT COMMITMENTS - Refer to TPA Specification on plans **ENERGY COMMITMENTS** Hot Water Solar (Electric Boost) 21 to 25 STCs Living None N/A System Bedrooms 1 Phase A/C 3 Star Living None N/A System Bedrooms 1 Phase A/C 3 Star 1 x Bathroom | Fan ducted to exterior Manual on/off Fan ducted to exterior Kitchen Manual on/off Ventilation Fan ducted to exterior Laundry Manual on/off Window/Skylight in Kitchen As Drawn Natural Lighting Window/Skylight in Bathrooms/Toilets As Drawn Number of bedrooms Dedicated Yes Artificial Lighting Number of Living/Dining rooms All Dedicated Yes (rooms to be Kitchen Dedicated Yes primarily lit by All Bathrms/Toilets Dedicated Yes Yes fluorescent or Dedicated Yes Yes Laundry LED lights) All Hallways Yes Dedicated Yes OTHER COMMITMENTS Outdoor clothes line Yes Ventilated refrigerator space Stove/Oven Electric cooktop & electric oven Alternative Energy | Photovoltaic System: 1 kW to R1 & R2 only January 2019 BSA Reference: 14538 **Building Sustainability Assessments** Ph: (02) 4962 3439 enquiries@buildingsustainability.net.au www. buildingsustainability.net.au Important Note The following specification was used to achieve the thermal performance values indicated on the Assessor Certificate and takes precedence over any other specification. If different construction elements are applied then the Assessor Certificate is no longer valid. Thermal Performance Specifications (does not apply to garage) **External Wall Construction** Added Insulation Brick Veneer & Lightweight R2.0 Internal Wall Construction Added Insulation Plasterboard on studs None R1.0 Cavity Brick (party walls) Added Insulation **Ceiling Construction** R3.5 to ceilings adjacent to roof space Plasterboard Roof Construction Colour Added Insulation Metal Floor Construction Covering Added Insulation Concrete None As drawn R1.0 to floors where open below to T1 & T8 As drawn Windows Glass and frame type U Value SHGC Range Area sq m ALM-001-01 A Aluminium Type A Single clear 6.70 0.51 - 0.63 As drawn ALM-002-01 A Aluminium Type B Single clear 6.70 0.63 - 0.77 Type A windows are awning windows, bifolds, casements, tilt 'n 'turn' windows, entry doors, french doors Type B windows are double hung windows, sliding windows & doors, fixed windows, stacker doors, louvres U Value SHGC Skylights Glass and frame type U and SHGC values are according to AFRC. Alternate products may be used if the U value is lower and the SHGC is within the range specified **External Window Shading** (eaves, verandahs, pergolas, awnings etc) All shade elements modelled as drawn **Ceiling Penetrations** (downlights, exhaust fans, flues etc) No adjustment has been made for losses to insulation arising from ceiling penetrations.

**UNIT AREAS** 

LOWER FLOOR GFA

UPPER FLOOR GFA

BALCONY - PORCH

TOTAL GFA

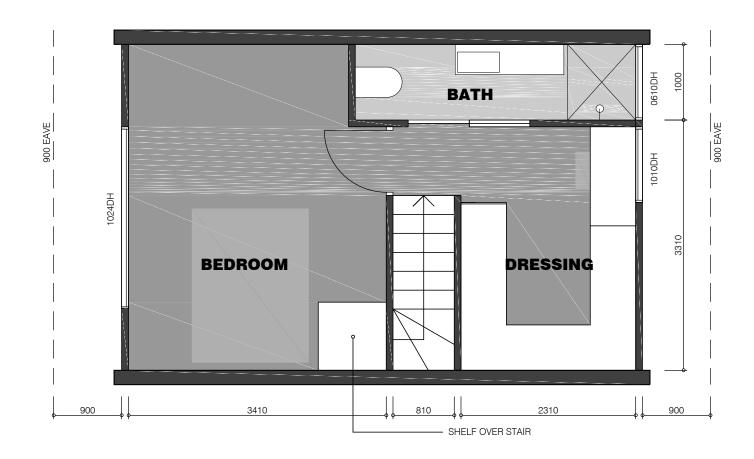
NOTE: NO ADDITIONAL WINDOWS IN

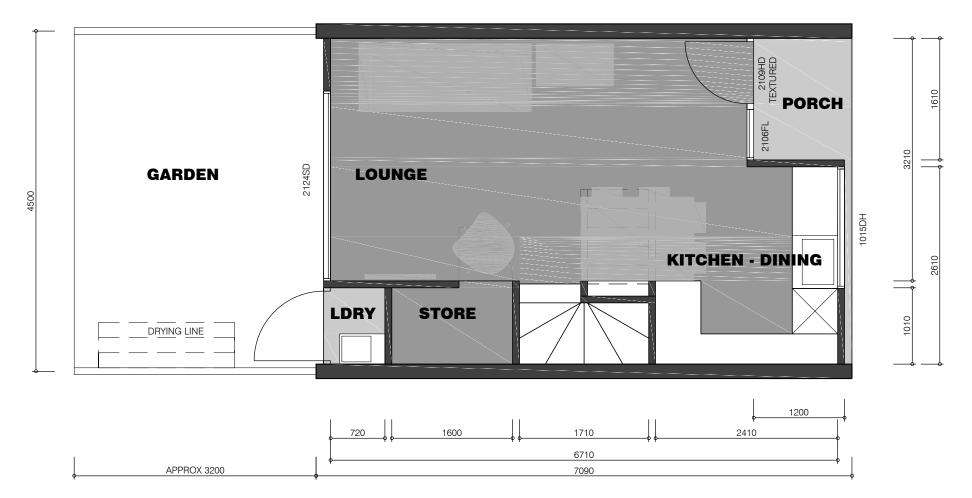
END UNITS TO AVOID OVERLOOKING

25

27

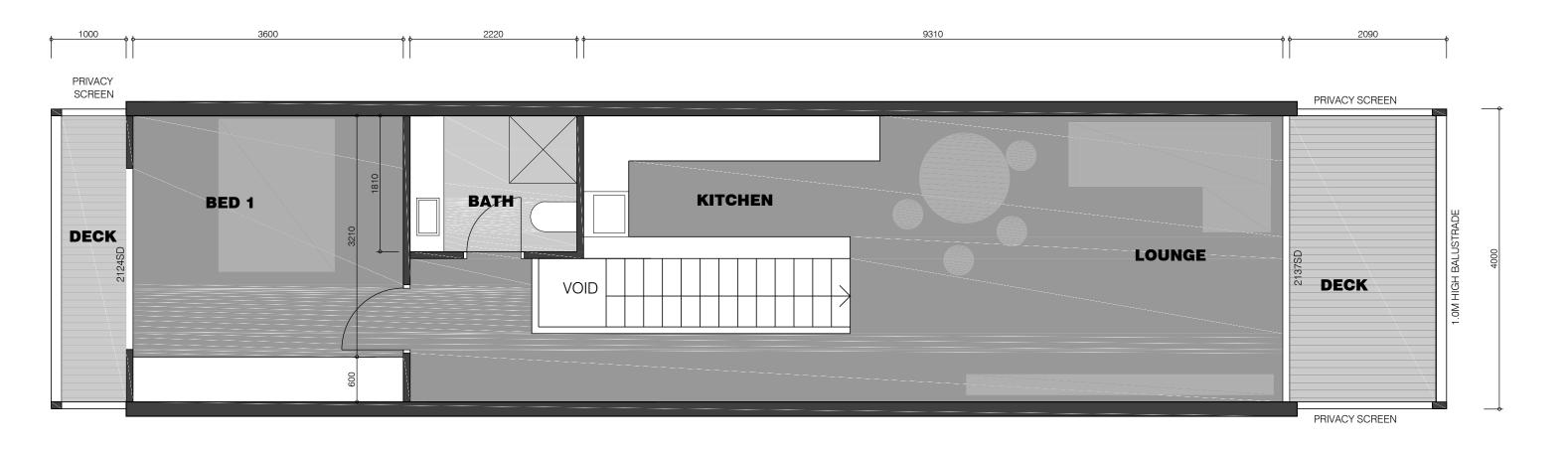
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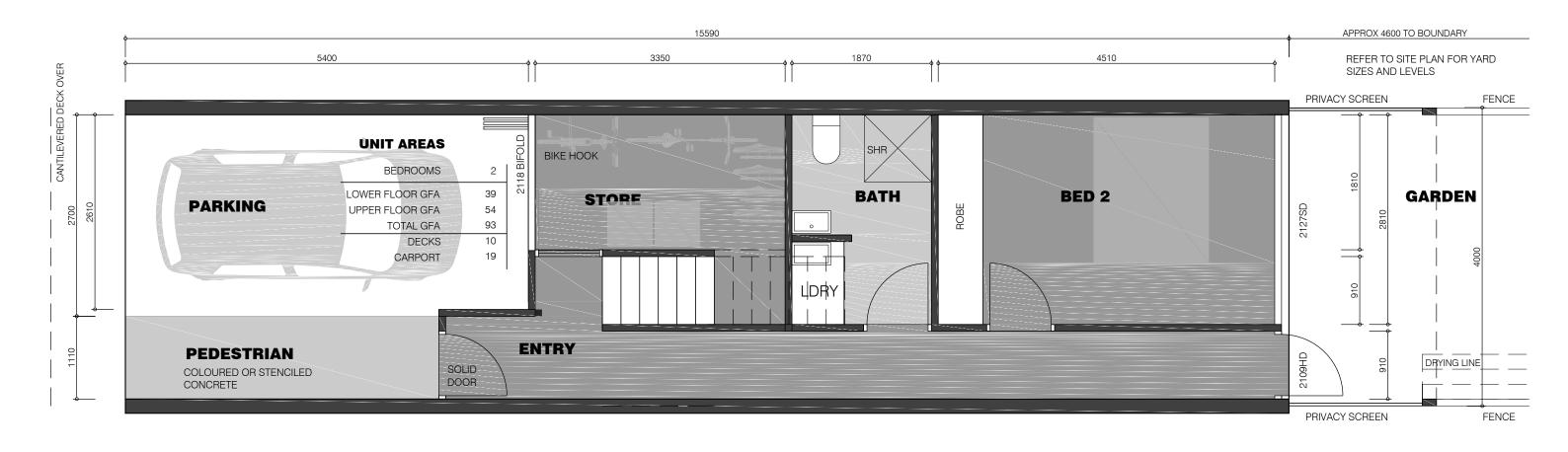




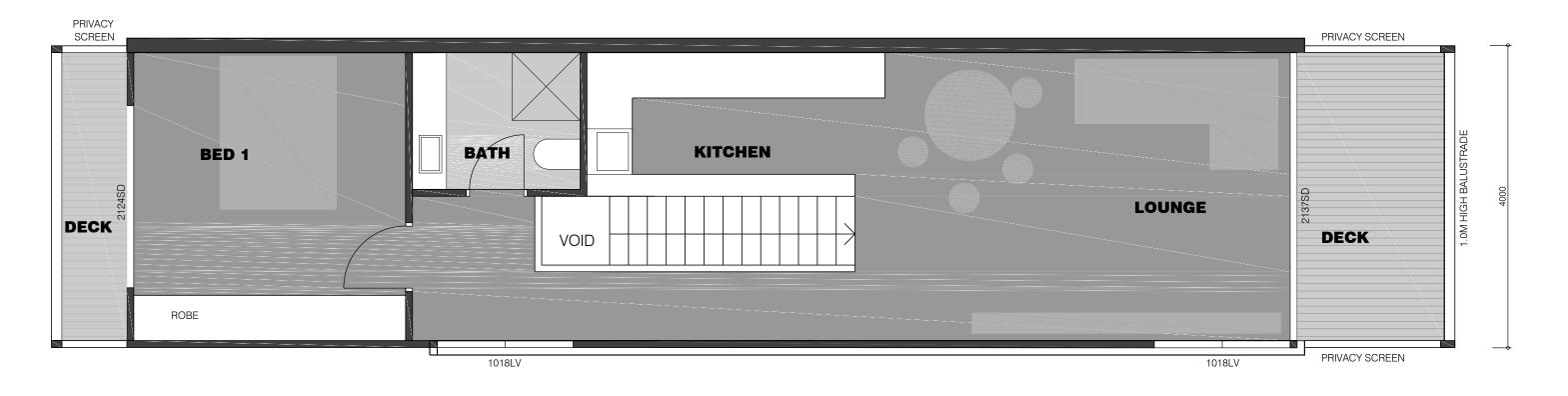


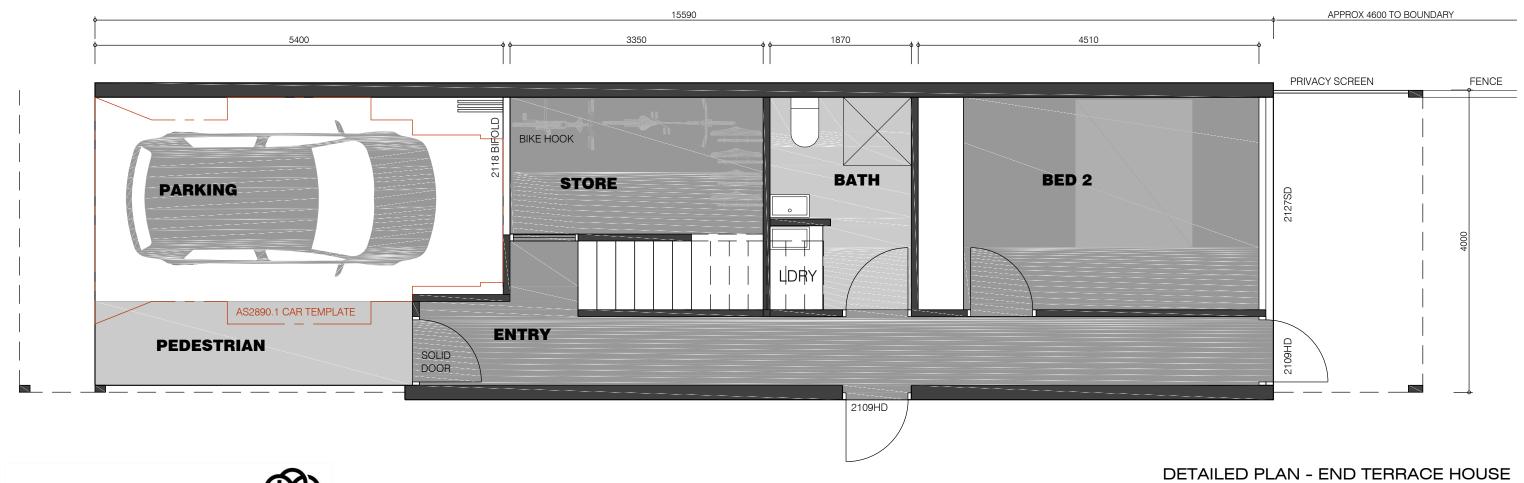






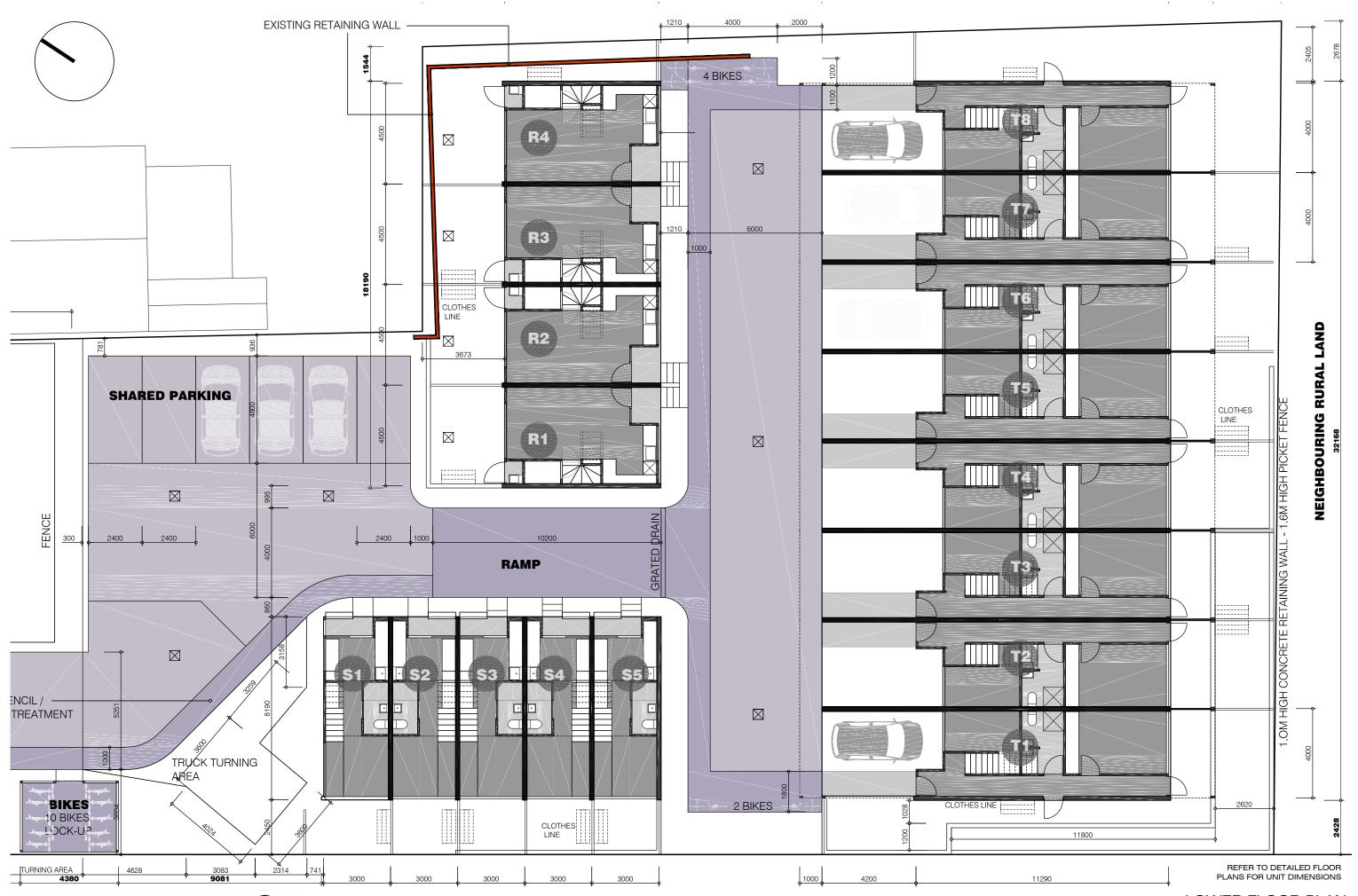






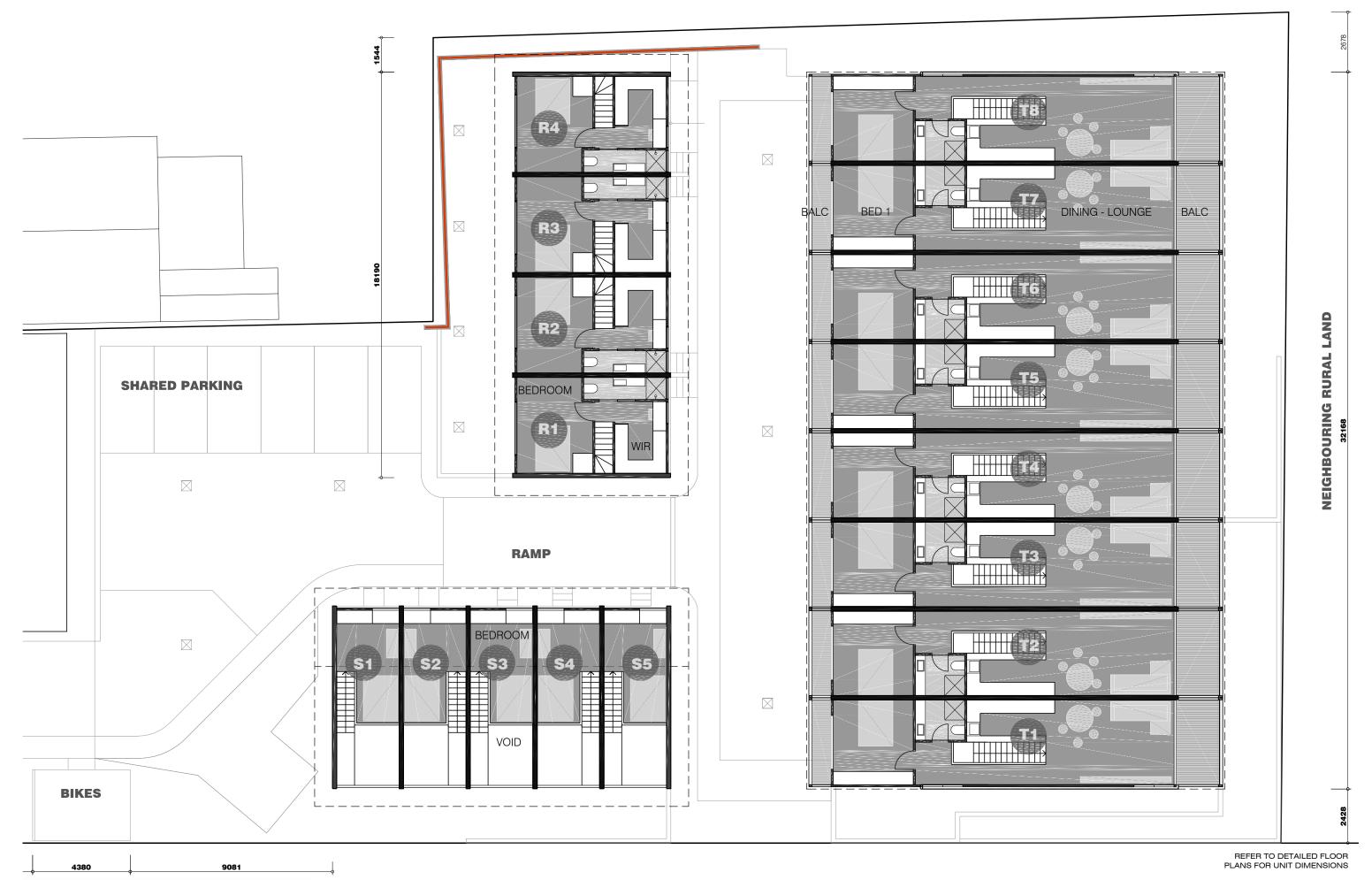


DA SET





LOWER FLOOR PLAN



UPPER FLOOR PLAN

**#kollective** 

(THE NORTH FACING FRONTAGE) DO NOT ALLOW SITE PLANNING WHICH SATISFIES THIS CLAUSE.IN ADDITION TO THE SITE CONSTRAINTS ABOVE, IN ORDER TO MINIMISE OVERLOOKING & OVERSHADOWING TOWARDS THE HRS BTWN 9AM & 3PM 0 0 NEIGHBOURS (MOST NOTABLE THE SOUTH-EASTERN NEIGHBOUR) THE PROPOSED DEVELOPMENT HAS BEEN DESIGNED TOWARDS TO SOUTHERN END OF THE SITE. THE PROPOSAL HAS ALSO BEEN ORIENTATED TOWARDS THE EXPANSIVE RURAL VIEWS TO THE SOUTH. 9.00 LOUNGE 1.00 **AND BALC** 20° 140° T8 30° 150° 15.00 40° HOUSE 50° T6 ROW 180°C HOUSES STUDIOS AND 9.00 TERRACE 2  $\boxtimes$  $\boxtimes$ T3 FRONT TERRACES AND OR B **KITCHENS** 9,00 FLOOR FLO  $\boxtimes$ LOWER UPPER STUDIO 5.00 LOUNGE 2.00 LOUNGE & TERRACI 3.00 SOLAR ACCESS PLAN

TOTALS

S1 | S2 | S3 | S4 | S5 | R1 | R2 | R3 | R4 | T1 | T2 | T3 | T4 | T5 | T6 | T7 | T8

**WINTER SUN** 

**#kollective** 

60% (OR 11 DWELLINGS) OF THE PROPOSED DWELLINGS RECEIVED THE REQUIRED SOLAR ACCESS. REFER TO

THE SHAPE OF THE LOT, THE LONG ACCESS HANDLE AND THE LIMITATIONS PLACED BY THE TELSTRA EASEMENT

23 LISMORE STREET BANGALOW

1:250 AT A3

12 MARCH.2019

**D-P-03** 

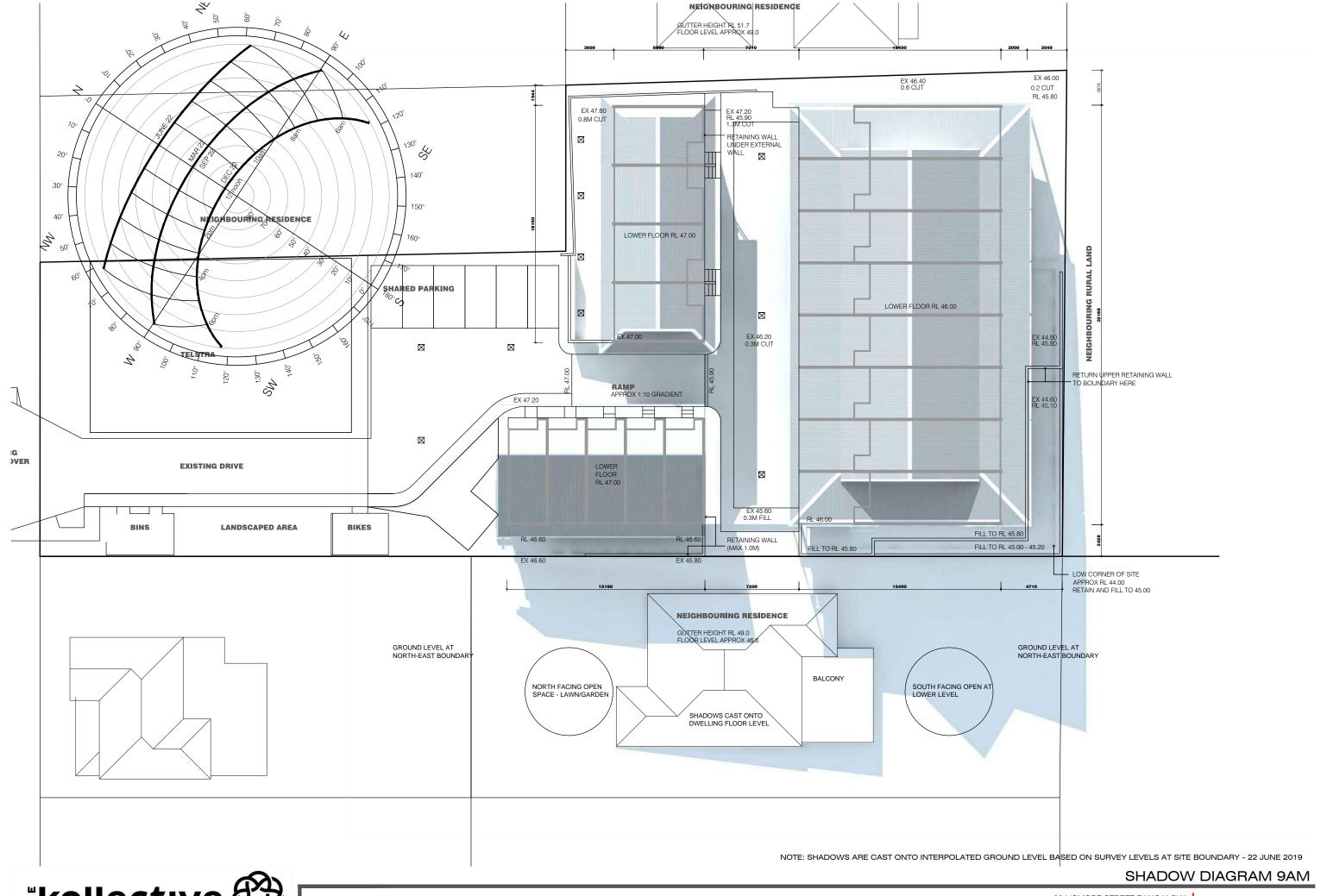
DA SET

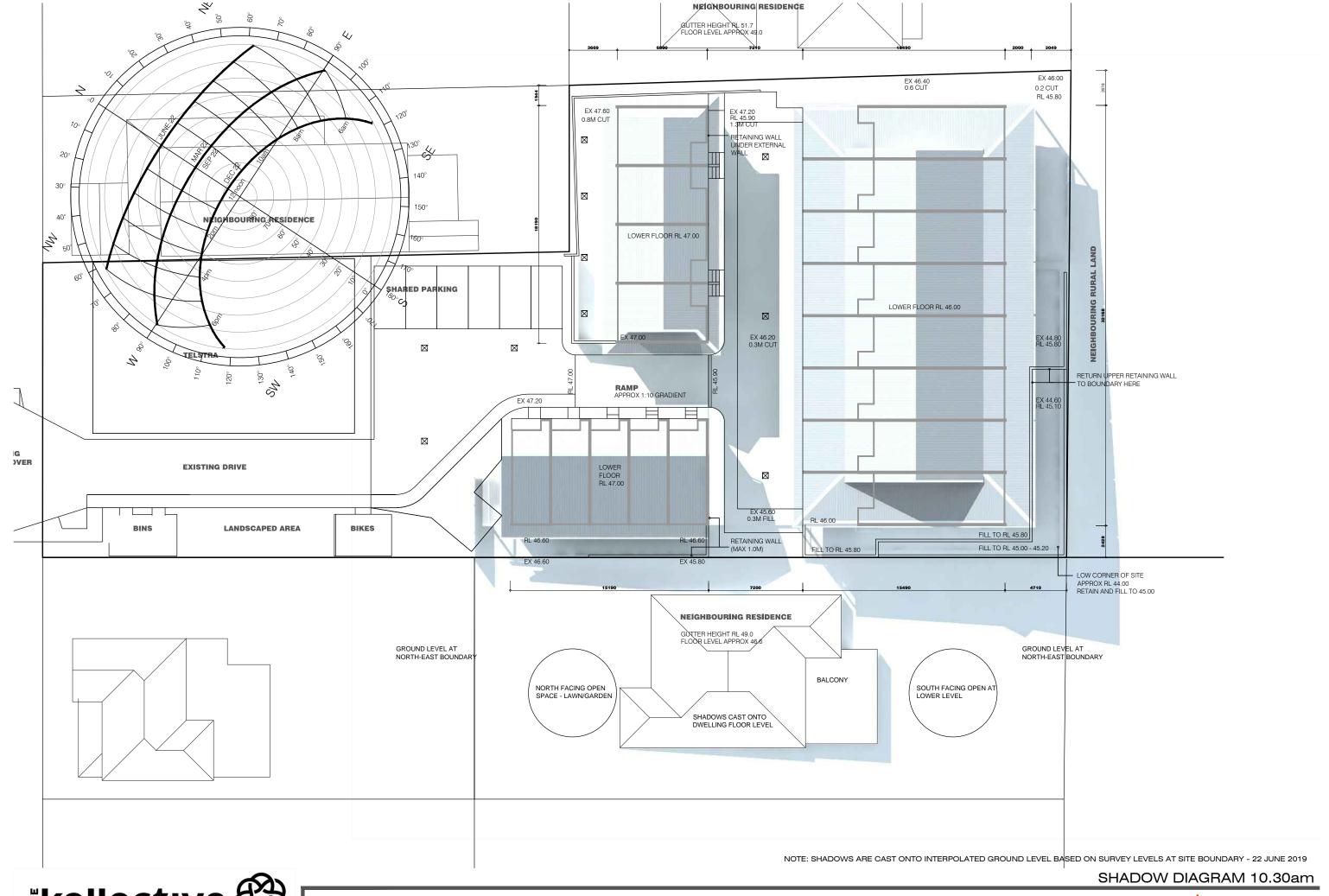
THE SOLAR ACCESS PLAN.



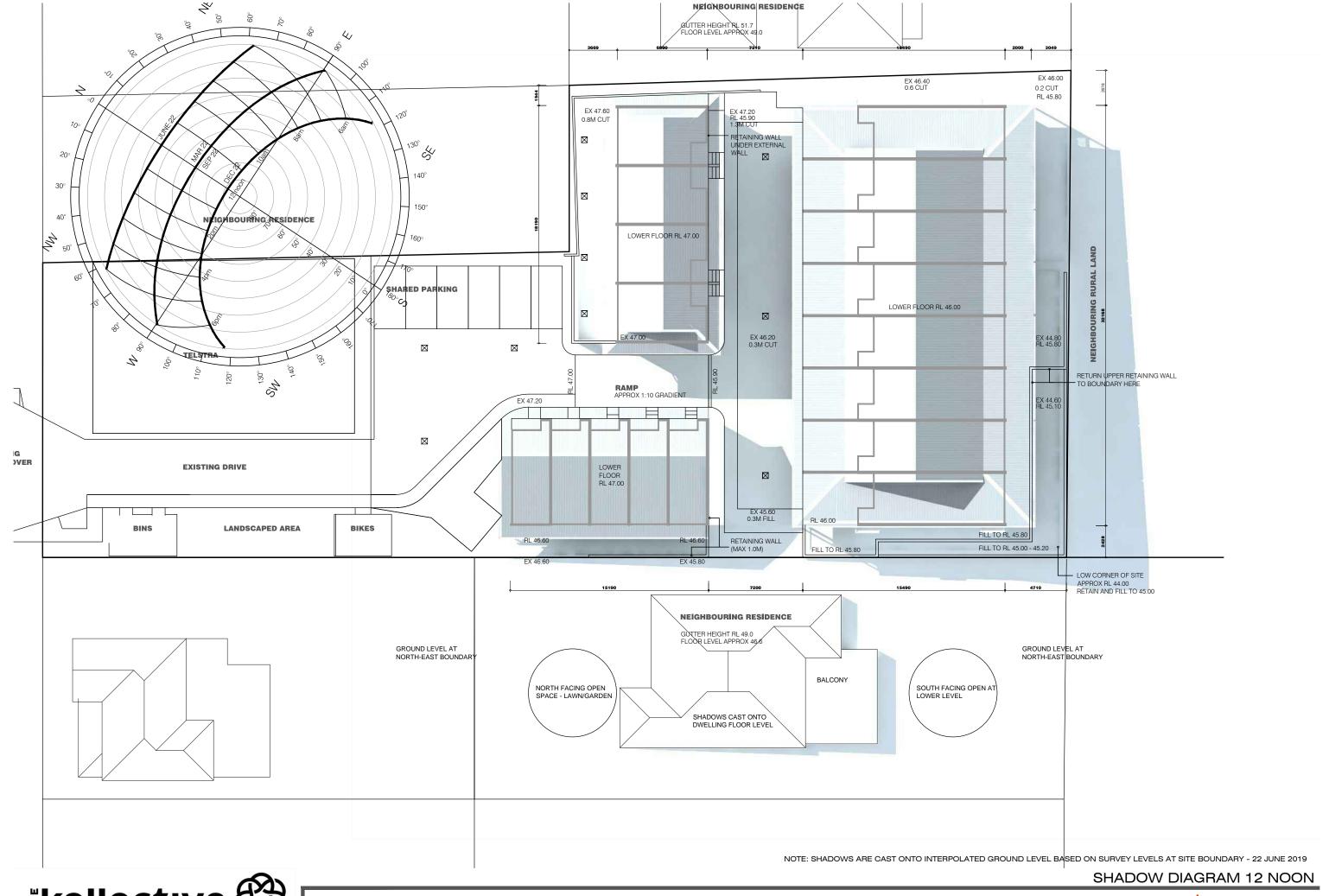


LANDSCAPE CONCEPT

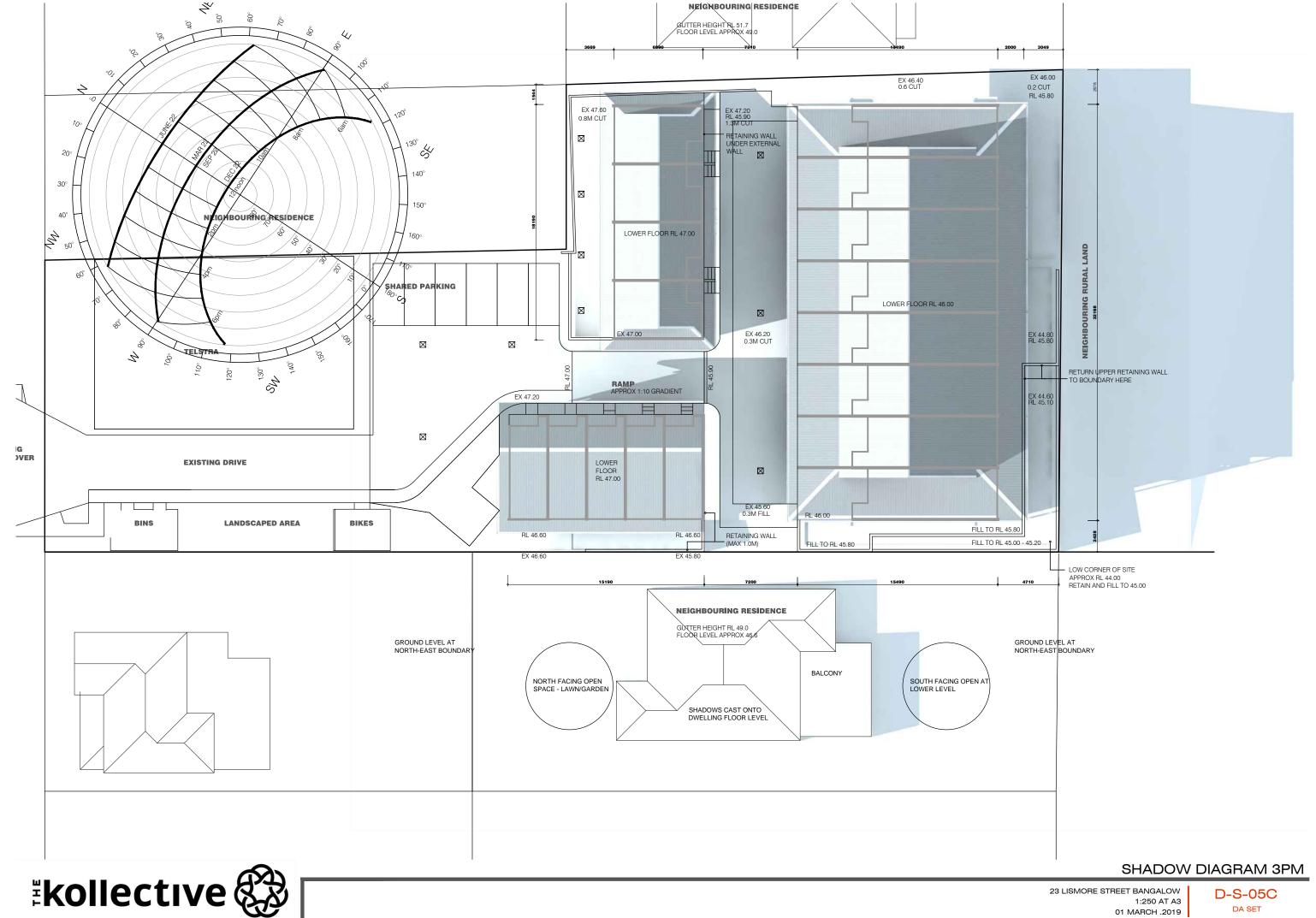












## **CONSTRUCTION WASTE**

THROUGHOUT CONSTRUCTION, MAINTAIN SKIP BINS FOR SEPARATED CONSTRUCTION WASTE.

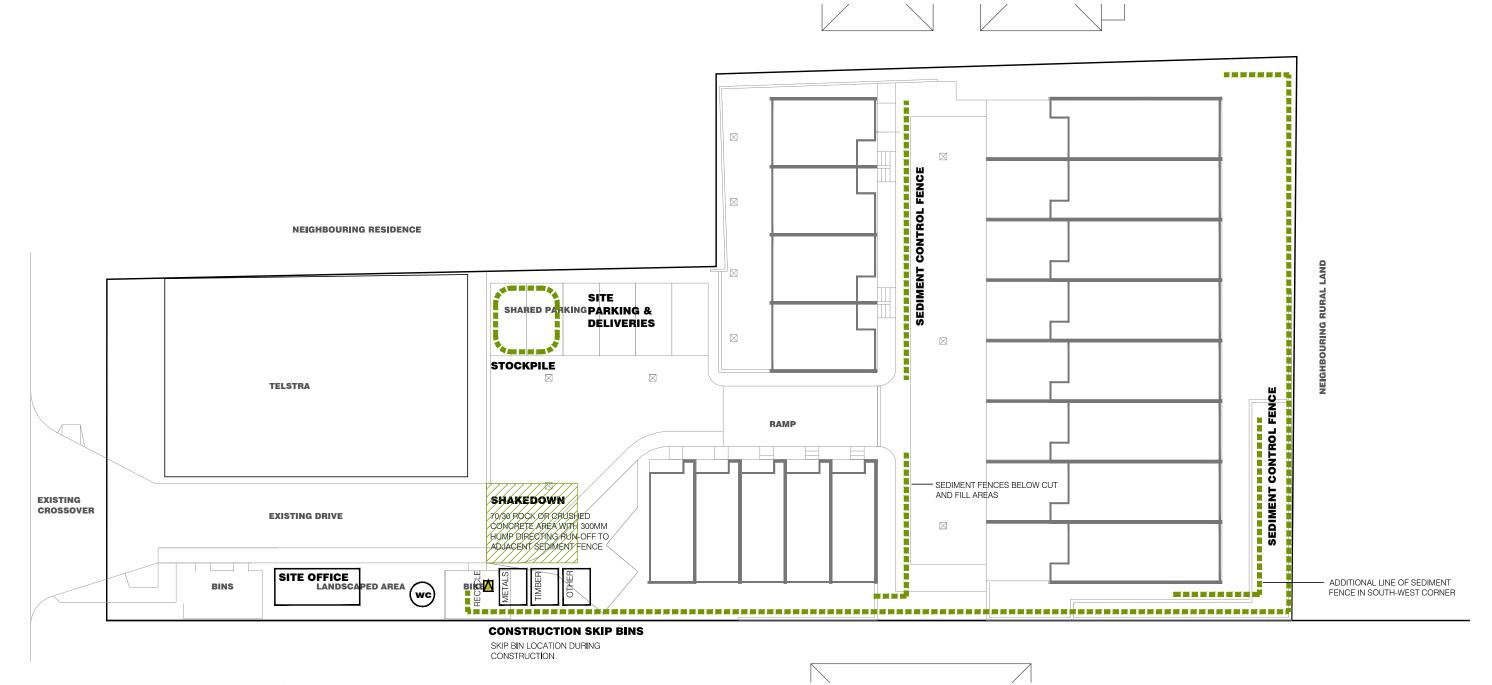
USE 240L RECYCLE BIN FOR DOMESTIC RECYCLABLE WASTE

## **EROSION & SEDIMENT CONTROL**

CONTROL SEDIMENT RUN-OFF FROM SITE DURING CONSTRUCTION AS PER "NORTHERN RIVERS LOCAL GOVERNMENT MANUALS AND STANDARD DRAWINGS & MANUALS.

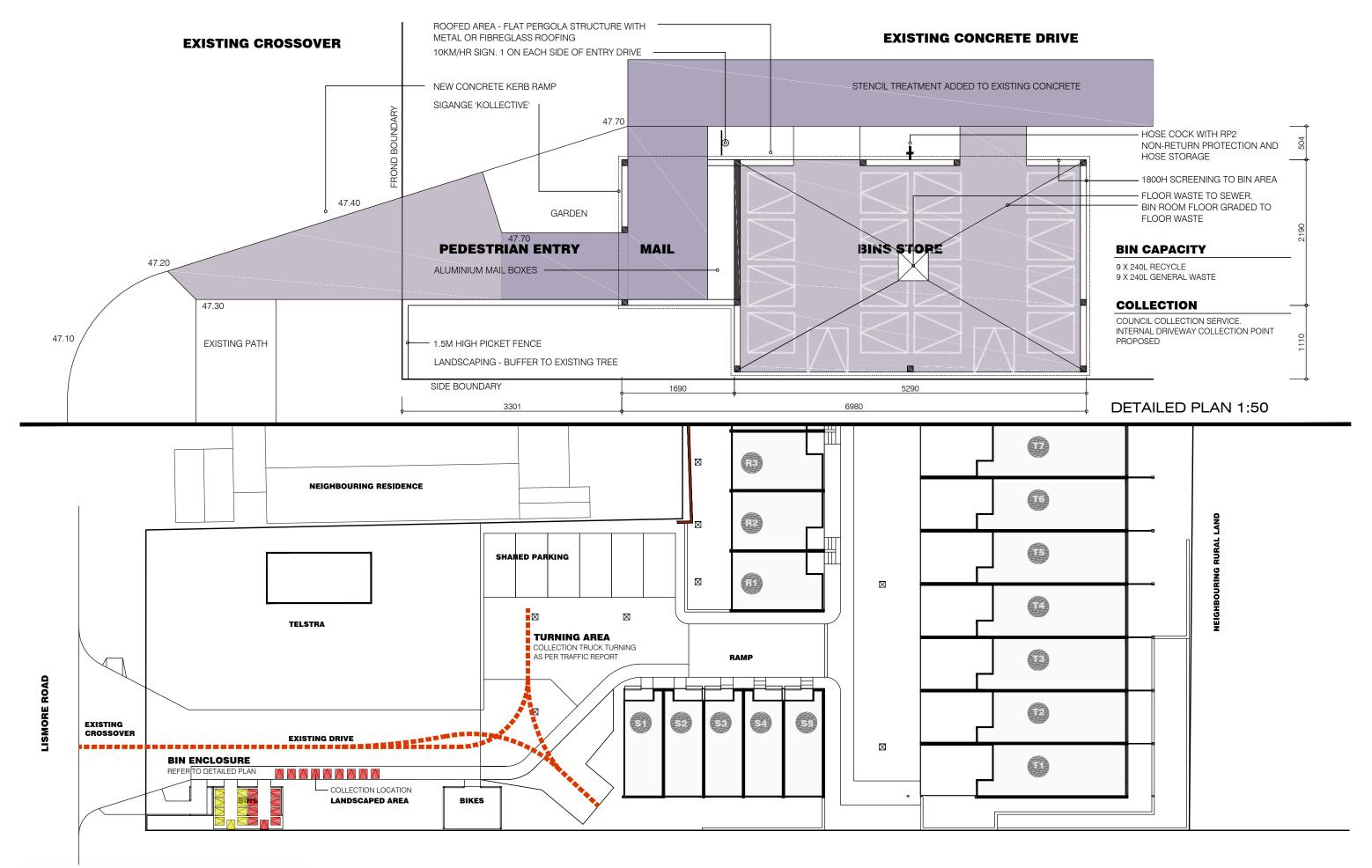
INSTALL SEDIMENT CONTROL FENCE AS REQUIRED TO LOW SIDE OF SITE. (FILTER FABRIC FIXED TO STEEL POSTS @MAX 3m CENTRES. FABRIC TO EXTEND MIN. 200mm UNDER GROUND.)

INSTALL SEDIMENT CONTROL FENCE OR HAY-BALE BARRIERS TO LOW SIDE OF ANY STOCKPILED EXCAVATED MATERIAL



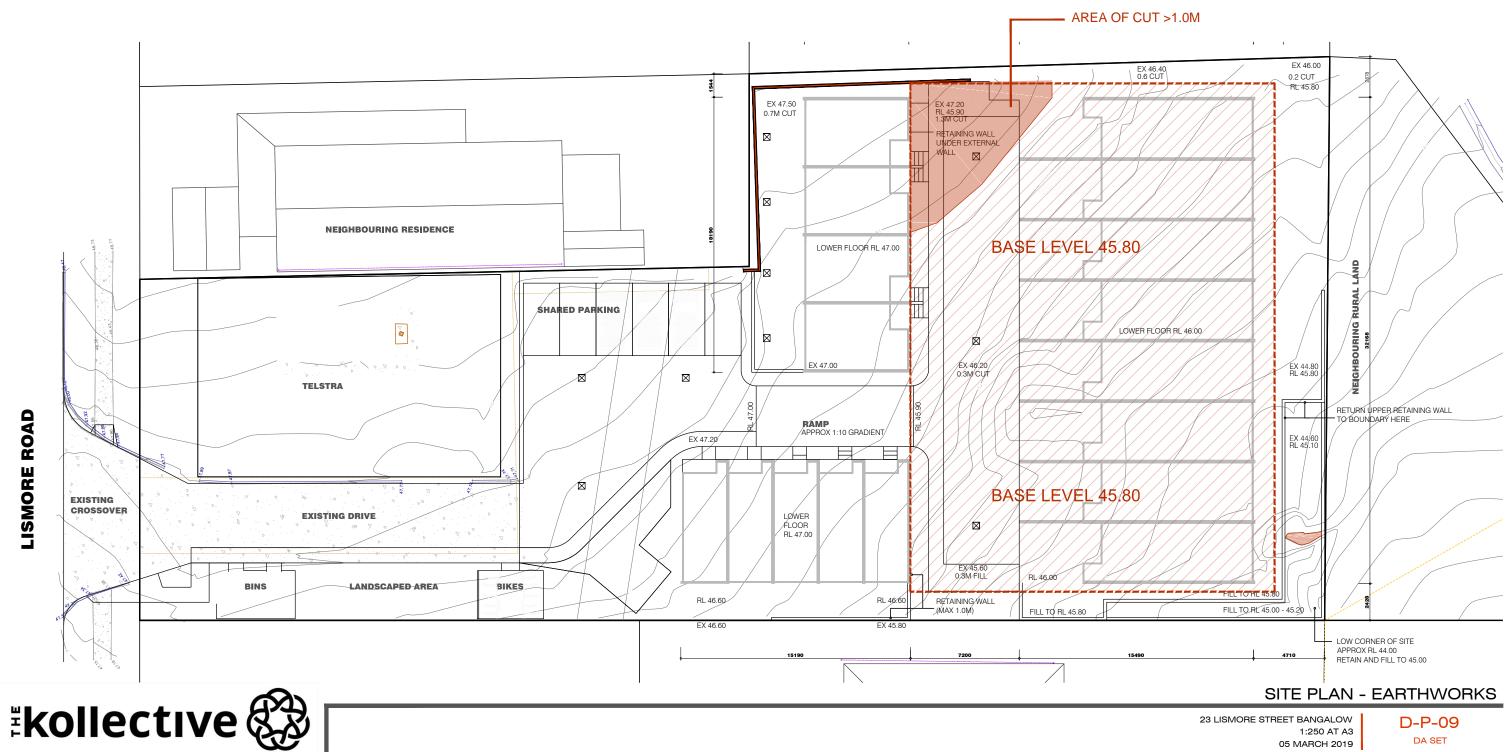


SITE ESCP AND SWMP (CONSTRUCTION STAGE)





SWMP (ONGOING OPERATION) AND DETAILED ENTRY - BIN AREA



## **STORMWATER STRATEGY**

ROOF WATER.

527m2 OF ROOF WATER IS DISCHARGED TO UNDER GROUND TANKS LOCATED AS SHOWN. THE REMAINDER OF STORMWATER IS DISCHARGED TO INTERNAL PITS.

STORMWATER RETENTION (BASIX REQS)
AS A BASIX REQUIREMENT EACH UNIT IS REQUIRED TO
PROVIDE 3KL OF WATER STORAGE FOR GARDEN WATER.
(TOTAL 50KL) 10 X 5KL INTERLINKED TANKS ARE PROPOSED
WITH A SINGLE PUMP AND DEDICATED GARDEN WATER
RETICULATION

ON-SITE DETENTION

IN ADDITION TO RETENTION, 1X5KL TANKS COLLECTS
STORMWATER FROM RETENTION TANK OVERFLOW. A SLOW
RELEASE AND OVERFLOW DIRECTS EXCESS STORMWATER TO
THE EXISTING OUTLET AT THE SOUTH-WEST CORNER OF THE
SITE

#### HARDSCAPE

INTERNAL PATHWAYS AND DRIVEWAYS NOT SERVICED WITH PITS DRAIN TO ADJACENT GARDEN BEDS. WHERE THERE ARE CONCENTRATED LOADS, A RUBBLE PIT OR PASSIVE DRAINAGE TRENCHES MAY BE REQUIRED.

ROOF WATER FROM THE BIKE STORE AND ENTRY AREA DISCHARGES TO STREET SYSTEM.

#### **STORMWATER CALCS**

 SITE AREA
 2330m2

 BASIX REQD ROOF AREA TO TANKS (20m2/DW)
 340m2

 ADDITIONAL ROOF AREA TO TANKS
 187m2

 TOTAL ROOF AREA DIRECTED TO TANKS
 527m2

 TOTAL TANK CAPACITY
 55KL

 CAPACITY - PRIVATE USE (BASIX)
 50KL

 STORAGE RATIO
 9.6M2/KL

## **DETENTION CALCS**

EXISTING HARDSCAPE (IMPERVIOUS AREA)	1240m2
PROPOSED IMPERVIOUS	1577m2
BALANCE - DETENTION	187m2

KEY		QTY	
0	RETENTION TANK - 5KL UNDERGROUND STRUCTURAL POLY TANK	X10	
	DETENTION TANK - 5KL UNDERGROUND STRUCTURAL POLY TANK	X1	



