

Arborist Notes:
Development Impact & Recommendations
Tree 1 will be subject to an encroachment into the allocated Tree Protection Zone from the establishment of the car parking area. The TPZ encroachment results in a loss of 9% of allocated TPZ area which is considered to be a minor encroachment. AS4970 The protection of trees on development sites.
The development will locate a parking bay of 5.5m from the tree at the nearest point and will be in the location of a current informal parking bay. Current conditions of this car parking area present with a levelled area with a compacted crushed rock surface that has been in use as a car park for a long period of time. The tree has been tolerant of these conditions and the likelihood of any substantial tree roots being located in this area is highly unlikely due to the distance from the tree to the car parking bay and the hostile environment for tree root establishment. The car park will be located outside of the drip line of the tree and there will be no requirement for canopy pruning. The area between the car parking bay and the front boundary will remain permeable and will be landscaped.
The installation of the car park as proposed will have no impact upon tree stability and no or negligible impact on tree health, noting that the tree is currently displaying some canopy decline and further tree decline is not unexpected in this tree that has been assessed as having a 'short' Useful Life Expectancy.
This tree will be tolerant of the installation of the car park as proposed. There is no canopy pruning requirement for this tree and no specific tree protection measures are required on the subject site or on the road reserve.

- SMP INITIATIVES**
- SITE DELINEATION**
Site area of 947.80m2
- Roof area runoff for warehouse of 638.7m2 which will be diverted into rainwater tanks.
- Entire exposed driveway / carpark of 201.7m2 will be diverted to a landscaped area.
- Permeable area (excluding Car spaces) of 96.8m2 comprised of landscape area.
- The remainder of impervious areas of 10.6m2 comprised of the other impervious areas around the site.
- Rainwater Tank**
16,000L rainwater tank.
The roof catchments of each warehouse will be diverted to rainwater tanks with a minimum total effective capacity of 16,000L per warehouse and will be used for toilet flushing throughout the development.
- Envis Sentinel Pit**
A minimum of 201.7m2 of driveway runoff will be diverted towards a minimum of 4 Envis Sentinel pits before being released at the legal point of discharge. This will reduce course and fine sediment levels.
- Water Efficient Fixings**
The development will include efficient fittings and fixtures to reduce the volume of water used in the development. The following WELS star ratings will be specified:
- Toilets - 4 Star
- Taps (bathroom and kitchen) - 5 Star
- Showerhead if provided - 3 Star with aeration device (6.0-7.5L/min)
- Energy Efficiency**
- Commitment to exceeding section J energy efficient requirements of NCC 2022
- Maximum illumination power density (W/m2) of the development meets the requirements of NCC 2022
- Lighting sensors for external lighting (motion detectors, timers etc.)
- 20W Solar System for renewable energy to be provided on the roof of each warehouse. Panels angled 10° to face north
- All electric development
- IEQ**
- Translucent roof sheet with minimum 50% VLT in warehouse (10% of roof area)
- Note showing commitment to Outside Air Fan in office providing O/A rates 50% above minimum from AS1668
- Glazing to improve daylight performance by maximising VLT to achieve a minimum 40%
- Transport**
- Bike space location for employees in the warehouse (2 for the development)
- Urban Ecology**
- Show extent of vegetated areas around the site (includes lawn)

Accessible Car Space
Scale: N.T.S

Proposed Accessible car space 2400 x 5400 each with 2400mm wide shared area. Detailed signage to be prov. in accordance with AS1428.1 / 2890.6

Provide white international symbol of access 800-1000mm high on a blue rectangle 1200 x 1200mm max. Place centrally, 500-600mm in from front of space.

Provide yellow lines 80-100mm wide around the edge of the space and 150-200mm wide diagonal lines set 200-300mm apart in the shared space.

Provide 1300mm high and in colour that achieves 30% luminance contrast between bollard and pavement colour.

Fence Elevation Not To Scale

Proposed steel mesh or alike construction with maximum height of 1.5 meters Boundary Fence

Proposed 1.5meter high black aluminium picket style front fence where shown on plan

- Town Planning Legend**
- Location of proposed rubbish bins
 - Location of area allocated for proposed landscaping. Note refer to landscape design for further details
 - Denotes location of existing trees
 - Denotes location of existing tree to be removed from site
 - Denotes location of LED energy efficient wall mounted lighting to local authority requirements
 - Provide building mounted LED flood lighting to external perimeter of the building
 - Denotes location of LED energy efficient bollard car park bollard lighting to local authority requirements
 - Dotted line denotes outline of translucent roof sheeting above to achieve min. 10% natural light and in accordance with PartJ.3.3 of the NCC
 - Denotes all weather sealed plain grey concrete driveway and pavement
 - Denotes all weather sealed plain pattern paved concrete path to delineate driveway from pedestrian access way
 - Location of area allocated for proposed landscaping. Note refer to landscape design for further details
- Notes:** All levels are taken from A.H.D.
F.F.L. - Finished Floor Level
R.L. - Proposed Reduced Level
Exist R.L. - Existing Reduced Level
A.H.D. - Australian Height Datum

Area Analysis

Total site area- 947.80m2

Proposed Area

Warehouse Area:	-636.30 m2
First Floor Office Area:	- 59.90 m2
Storage Mezzanine Area:	- 162.70 m2
Overall Building Area-	858.90 m2
Total site coverage -	636.30m2 = 67.13 %

Car Parking Analysis

Proposed Warehouse / OFFICE : 858.90m2
810.90 m2 net - minus loading bays 38m2 & stair void 10.00m2

Car Parking Required for Factory
810.90 x 1 (Cars) ÷ 100m2 = 8.1 + 2 = 10.1

TOTAL CARSPACES REQUIRED	: 10
TOTAL CARSPACES PROVIDED	: 7



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Rev.	Date:	Amendments:
A	18.06.2024	TOWN PLANNING SUBMISSION / FIRST ISSUE
B	10.10.2024	TOWN PLANNING RFI AMENDMENTS

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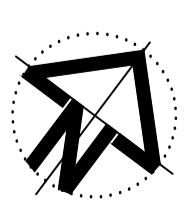
Project:
PROPOSED WAREHOUSE & OFFICE DEVELOPMENT

At:
2 GRAEME AVENUE, MONTMORENCY

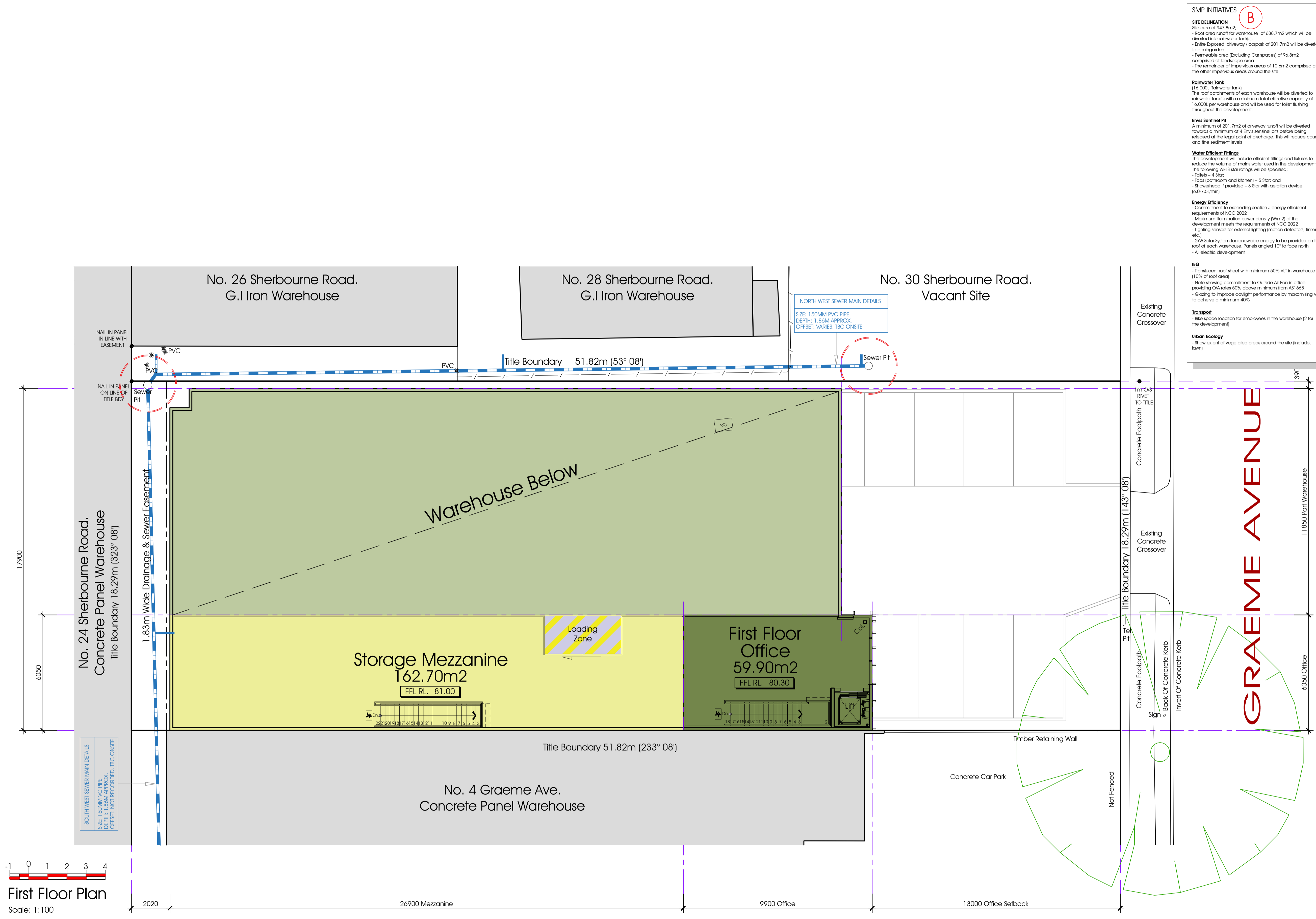
Client:
BILLINGS LONG PTY. LTD.

Drawing Name:
SITE / SETOUT PLAN

Job No: 240406
Date: 31.05.2024
Scale: 1:100 @ A1
Drawn: A.M
Checked: A.M



Drawing No:
TP01
TOWN PLANNING
DRAWINGS ISSUED FOR TOWN PLANNING



SMP INITIATIVES

SITE DELINEATION
Site area of 947.8m²;
- Roof area runoff for warehouse of 638.7m² which will be diverted into rainwater tanks;
- Entire Exposed driveway / carpark of 201.7m² will be diverted to a landscaped area;
- Remedial area (excluding Car spaces) of 96.8m² comprised of landscaped area;
- The remainder of impervious areas of 10.6m² comprised of the other impervious areas around the site.

Rainwater Tank
(16,000L Rainwater tank)
The roof catchments of each warehouse will be diverted to rainwater tanks with a minimum total effective capacity of 16,000L per warehouse and will be used for toilet flushing throughout the development.

Envis Sentinel Pit
A minimum of 201.7m² of driveway runoff will be diverted towards a minimum of 4 Envis sentinel pits before being released at the legal point of discharge. This will reduce erosion and fine sediment levels.

Water Efficient Fixings
The development will include efficient fittings and fixtures to reduce the volume of mains water used in the development. The following WELS star ratings will be specified:
- Toilets - 4 Star;
- Taps (bathroom and kitchen) - 5 Star; and
- Showerhead if provided - 3 Star with aerator device (6.0-7.5L/min).

Energy Efficiency
- Commitment to exceeding section J energy efficient requirements of NCC 2022;
- Maximum illumination power density (W/m²) of the development meets the requirements of NCC 2022;
- Lighting sensors for external lighting (motion detectors, timers etc.);
- 2kW Solar System for renewable energy to be provided on the roof of each warehouse. Panels angled 10° to face north;
- All electric development.

ISO
- Translucent roof sheet with minimum 50% VLT in warehouse (10% of roof area);
- Note showing commitment to Outside Air Fan in office providing C.O. rates 50% above minimum from AS1668;
- Glazing to improve daylight performance by maximising VLT to achieve a minimum 40%.

Transport
- Bike space location for employees in the warehouse (2 for the development).

Urban Ecology
- Show extent of vegetated areas around the site (includes lawn).

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Scale: N.T.S.

Provide white international symbol of access 800-1000mm high on a blue rectangle 1200 x 1200mm max. Place centrally, 500-600mm in from front of space.

Provide yellow lines 80-100mm wide around the edge of the space and 150-200mm wide diagonal lines set 200-300mm apart in the shared space.

Provide 1300mm high and in colour that achieves 30% luminance contrast between bollard and pavement colour.

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Scale: N.T.S.

Proposed steel mesh or alike construction with maximum height of 2.1 meters Boundary Fence

Proposed 2.1meter high black aluminium picket style front fence where shown on plan

Town Planning Legend

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Note: All levels are taken from A.H.D.
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P.P.L. - Proposed Reduced Level
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Area Analysis

Total site area- 947.80m²

Proposed Area

Warehouse Area:	-636.30 m ²
First Floor Office Area:	- 59.90 m ²
Storage Mezzanine Area:	- 162.70 m ²
Overall Building Area-	858.90 m ²

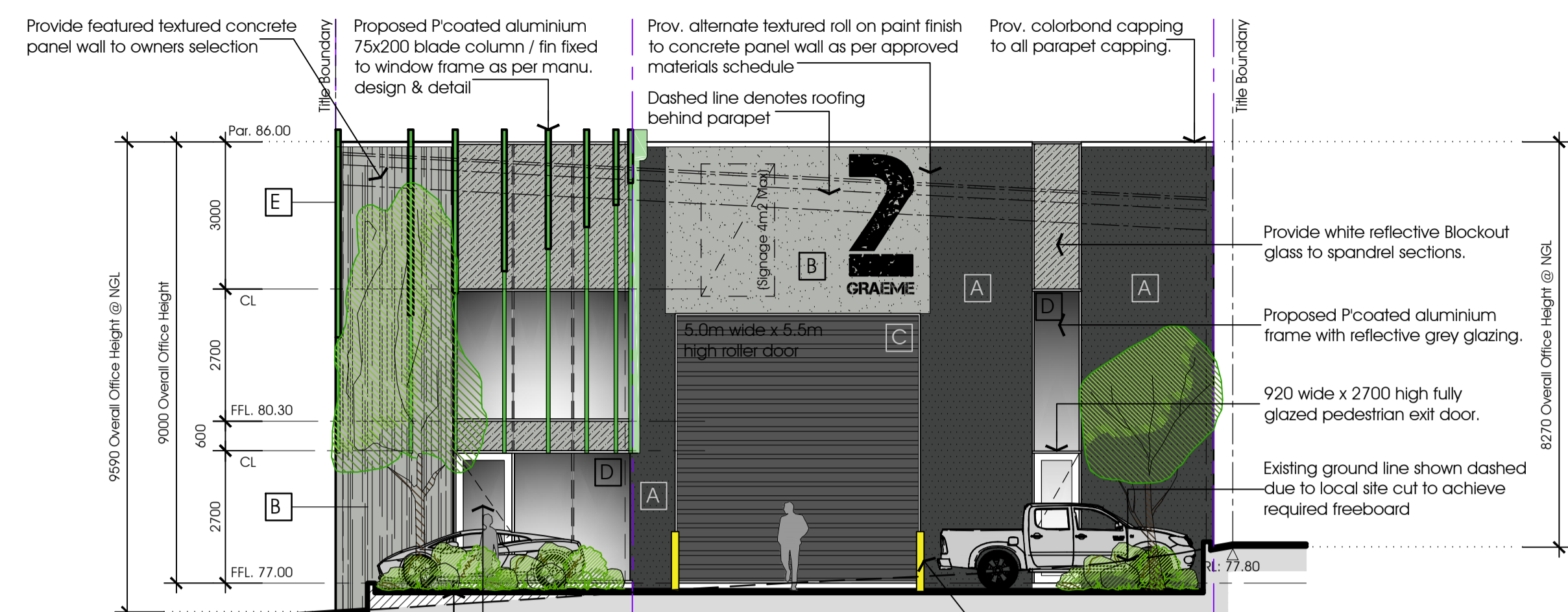
Total site coverage - 636.30m² = 67.13 %

Car Parking Analysis

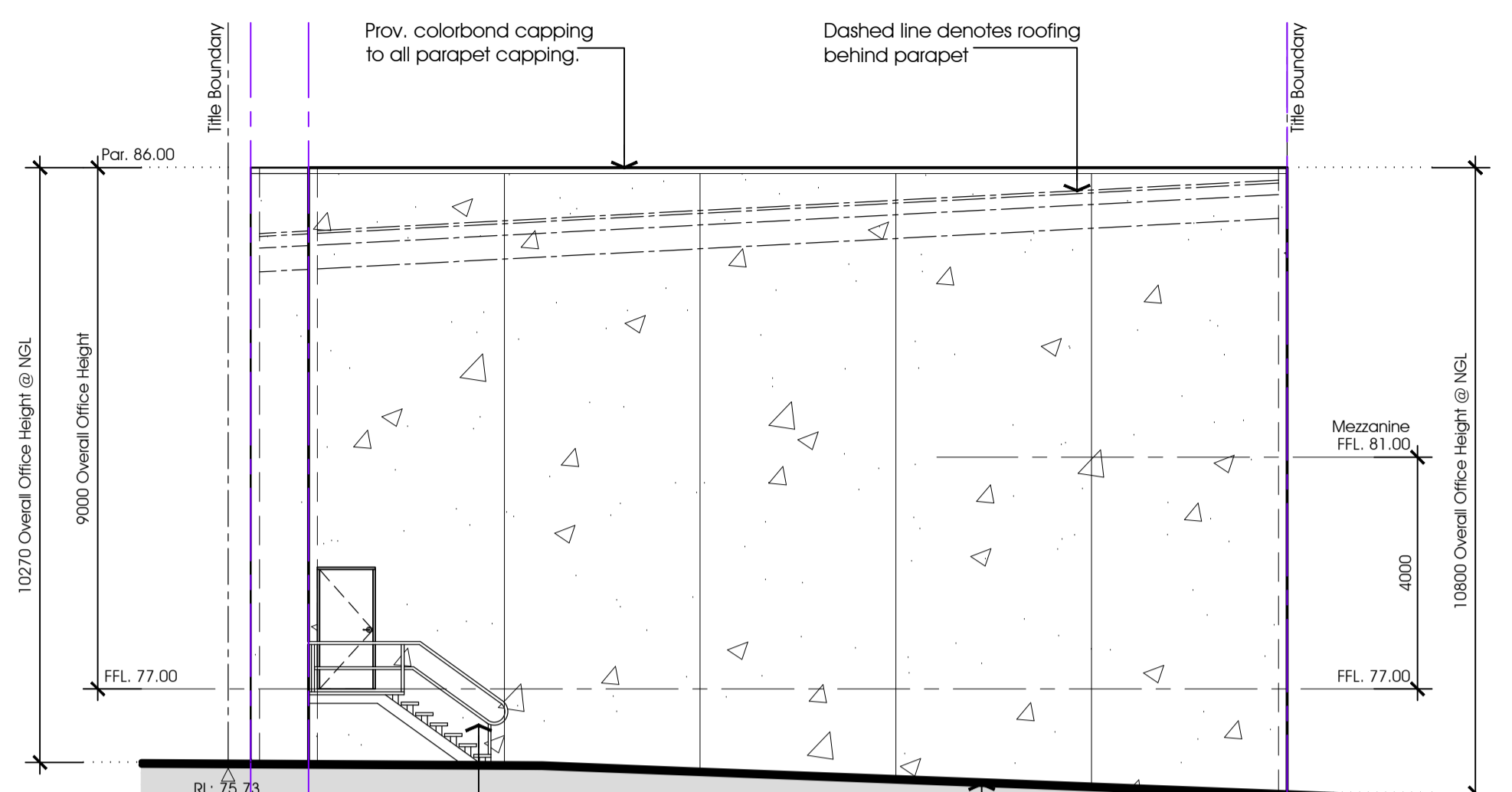
Proposed Warehouse
WAREHOUSE / OFFICE : 858.90m²
(810.90 m² net - minus loading bays 38m² & stair void 10.00m²)

Car Parking Required for Factory
810.90 x 1 (Cars) ÷ 100m² = 8.1 + 2 = 10.1

TOTAL CARSPACES REQUIRED	: 10
TOTAL CARSPACES PROVIDED	: 7



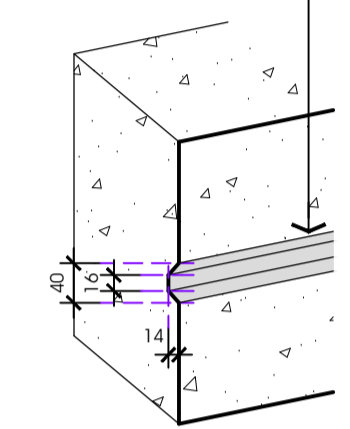
East Elevation
Scale: 1:100



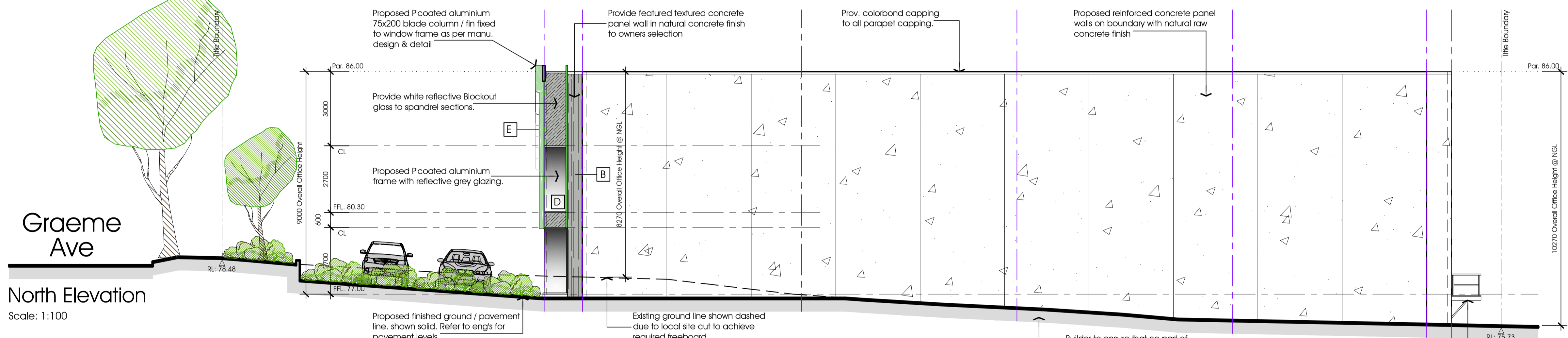
West Elevation
Scale: 1:100

Colour Materials Schedule	
Material Description	Material Sample
A Rolled on textured finish- 'DULUX MONUMENT' (R: 64, G: 65, B: 65, LRV: 8)	
B Rolled on textured finish- 'DULUX SHALE GREY' (R: 178, G: 180, B: 175, LRV: 50)	
C Colorbond Powdercoated Roller Door / Window frames - 'MONUMENT'	
D Grey tint glazing	
E Powdercoated Aluminium Louvers 'DYNAMIC GREEN'	
F Provide Zincalume 'TRIMDEK' roof sheeting at 3° pitch	

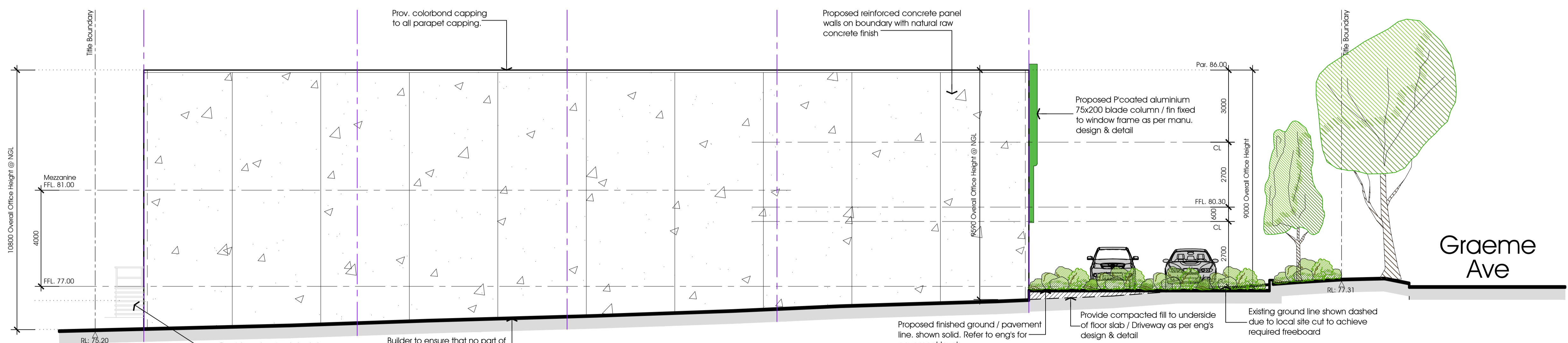
Provide "Modfix" dummy / false joint or similar approved cast into concrete panel to form decorative joints in panels as shown on elevations



Dummy / False Joint Detail
Scale: 1:10



North Elevation
Scale: 1:100



South Elevation
Scale: 1:100



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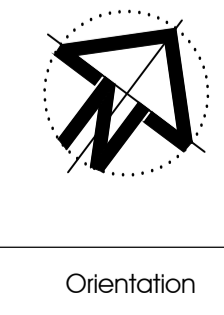
Project:
PROPOSED WAREHOUSE & OFFICE DEVELOPMENT

At:
2 GRAEME AVENUE, MONTMORENCY

Client:
BILLINGS LONG PTY. LTD.

Drawing Name:
ELEVATIONS

Job No: 240406
Date: 31.05.2024
Scale: 1:100 @ A1
Drawn: A.M
Checked: A.M



Drawing No:
TP03
TOWN PLANNING
DRAWINGS ISSUED FOR TOWN PLANNING

Colour Materials Schedule	
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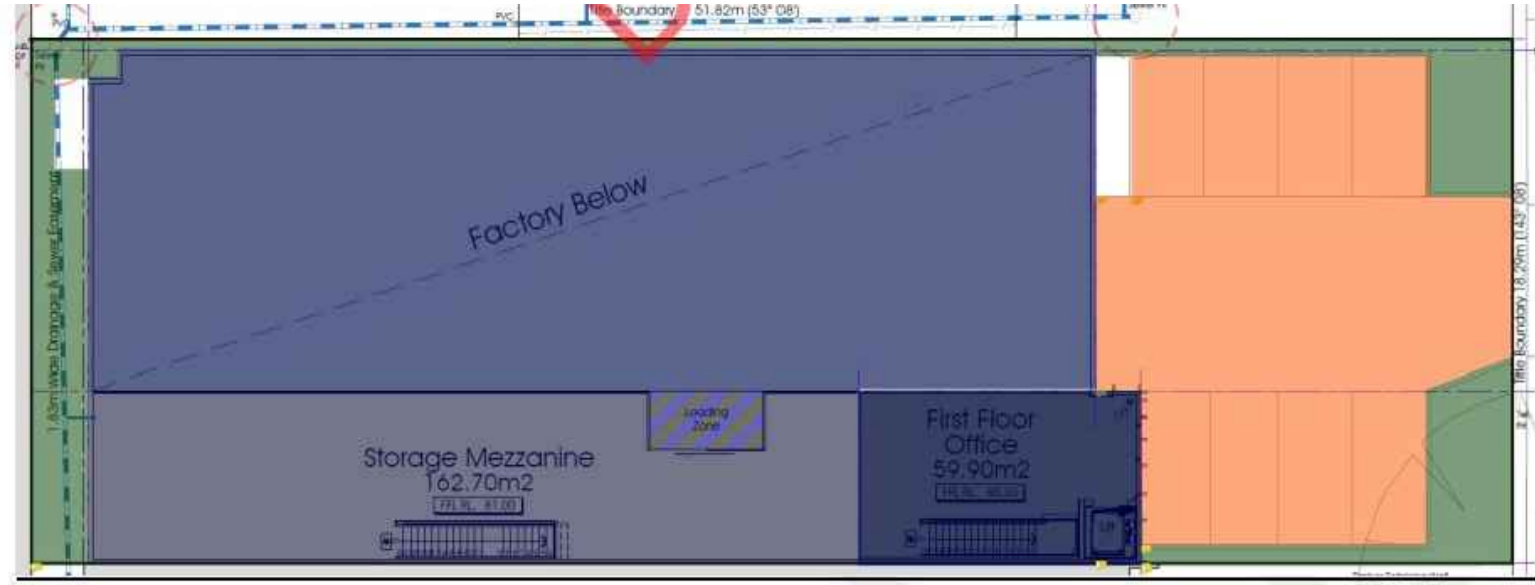
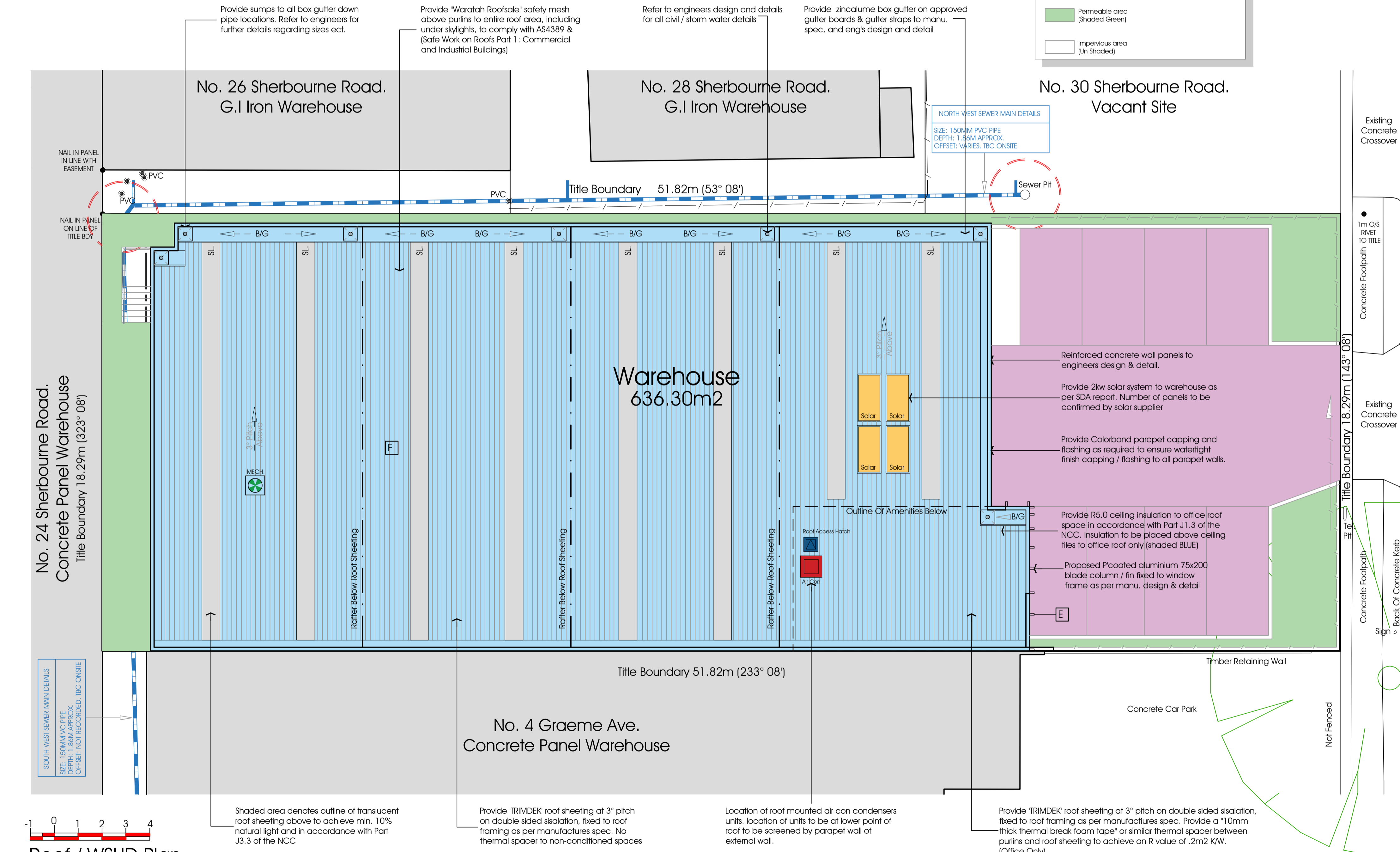


Figure 2: Entire roof catchment area is to be diverted into RWTs (light and dark blue), permeable areas (Green), driveway diverted (orange) into Envis pits and impervious areas (Uncoloured-driveway and exterior stairs)

Roof Cathment Plan

Not To Scale



WSUD Legend	
	Roof catchments area for warehouse diverted to rain water tank (Shaded Blue)
	Driveway / car parking area diverted treatment pit (Shaded Purple)
	Permeable area (Shaded Green)
	Impervious area (Un Shaded)

SMP INITIATIVES	
SITE DELINEATION	B
Site area of 947.8m2: <ul style="list-style-type: none">- Roof area runoff for warehouse of 638.7m2 which will be diverted into rainwater tanks- Entire Exposed driveway / carpark of 201.7m2 will be diverted to a rainwater tank- Permeable area (Excluding Car spaces) of 96.8m2 comprised of landscape area- The remainder of impervious areas of 10.6m2 comprised of the other impervious areas around the site	
Rainwater Tank (16,000L Rainwater tank) The roof catchments of each warehouse will be diverted to rainwater tanks with a minimum total effective capacity of 16,000L per warehouse and will be used for toilet flushing throughout the development.	
Envis Sentinel Pit A minimum of 201.7m2 of driveway runoff will be diverted towards a minimum of 4 Envis sentinel pits before being released at the legal point of discharge. This will reduce course and fine sediment levels	
Water Efficient Fittings The development will include efficient fittings and fixtures to reduce the volume of mains water used in the development. The following WELS star ratings will be specified: <ul style="list-style-type: none">- Toilets - 4 Star- Taps (bathroom and kitchen) - 5 Star and Showerhead if provided - 3 Star with question device (6.0-7.5/min)	
Energy Efficiency <ul style="list-style-type: none">- Commitment to exceeding section J energy efficient requirements of NCC 2022- Maximum illumination power density (W/m2) of the development meets the requirements of NCC 2022- Lighting sensors for external lighting (motion detectors, timers etc.)- 2kW Solar System for renewable energy to be provided on the roof of each warehouse. Panels angled 10° to face north- All electric development	
ES <ul style="list-style-type: none">- Translucent roof sheet with minimum 50% VLT in warehouse (10% of roof area)- Note showing commitment to Outside Air Fan in office providing O/E rates 50% above minimum from AS1668- Glazing to improve daylight performance by maximising VLT to achieve a minimum 40%	
Transport <ul style="list-style-type: none">- Bike space location for employees in the warehouse (2 for the development)	
Urban Ecology <ul style="list-style-type: none">- Show extent of vegetated areas around the site (includes trees)	

Natural Ventilation

Warehouse floor area of 636.3m2 requires 5% ventilation = 31.81m2

1 roller door @ 27.5m2 each and 1 PA doors @ 1.9m2 each provide a total area of 29.4m2.

29.4m2 Provides 78.27% Natural ventilation
Therefore, a 21.73% shortfall of required ventilation.

21.73% of the total floor area of 636.3m2 = 138.26m2 still required.

138.26 x Average roof height of 7.6 metres = 1,050.77m3.

1,050.77m3 x 4 air changes per hour / 3.6 = a requirement of 1,167.52 litres per second.

Provide 1 x SV600 Ampelair rotary ventilator exhausting 1486 litres per second
Will provide a total of 1486 litres per second. (or similar approved)

Roof Plan Notes

ROOF AND WALL PLUMBING
ALL ROOF AND WALL CLADDING AND ASSOCIATED ACCESSORIES TO BE INSTALLED TO MANU. SPECIFICATIONS AND AUSTRALIAN STANDARDS.

ROOF AND WALL CLADDING TO BE INSTALLED IN CONTINUOUS LENGTHS. EXPANSION JOINTS TO BE PLACED IN CENTERS AS PER MANU. SPECIFICATIONS.

EXTEND ROOF SHEETS 50MM MINIMUM INTO BOX GUTTERS AND TURN SHEETS DOWN.

INSULATIONS SISALATION AND SAFETY MESH
SUPPLY AND INSTALL ALL SPECIFIED INSULATION, SISALATION AND SAFETY MESH OVER PURLINS PRIOR TO LAYING AND FIXING OF ROOF SHEETING.

SAFETY MESH TO BE FIXED TO RIDGE PURLIN AND PULLED TIGHT IN CONTINUOUS LENGTH FOR FULL SPAN OF ROOF, LAY SISALATION AND/OR INSULATION OVER SAFETY MESH IMMEDIATELY PRIOR TO LAYING ROOF SHEETS.

ENSURE SISALATION / INSULATION IS ADEQUATELY LAPPED WITH ADJACENT SHEETS TO PROVIDE A CONTINUOUS INSULATION BARRIER TO THE FULL EXTENT OF ROOF. ENSURE INSULATION IS CONTINUED UNDER BOX GUTTERS AND FIXED IN POSITION. CHECK ALL INTERNAL EXPOSED SURFACES OF INSULATION FOR CONTINUITY AND MAKE GOOD AS REQUIRED.

RAIN WATER GOODS
INSTALL BOX GUTTERS AND EAVE GUTTERS IN LOCATIONS SHOWN ON ARCHITECTURAL AND ENGINEERING DRAWINGS.

GUTTERS SHOULD BE SUPPLIED IN LONG LENGTHS WITH ANY JOINTS TO BE LOCATED AT THE HIGH END OF THE GUTTER. ENSURE ALL JOINTS ARE ADEQUATELY SEALED TO PROVIDE A WATER TIGHT FINISH NO LEAKS.

BOX GUTTERS ARE TO BE SUPPORTED WITH "SPANDEK" GUTTER BOARDS AND GUTTER STRAPS AT CENTERS SUFFICIENT TO SUPPORTING AND IMPOSED LIVE LOADS.

EAVE GUTTERS TO HAVE GUTTER BRACKETS OF MATCHING MATERIAL AT CENTERS AS SPECIFIED BY MANUFACTURER.

PROVIDE OVERFLOW POPS OF SUFFICIENT SIZE AND NUMBER TO PREVENT OVERFLOW IN THE EVENT OF BLOCKAGES.

FLASHING & CAPPING
ALL FLASHING AND CAPPING TO BE COMPLETED WITH THE ROOF AND WALL CLADDING. ENSURE SUFFICIENT COVER TO ALL SURFACES TO PREVENT THE INGRESS OF WATER, DUST AND VERMIN.

ALL VISIBLE FLASHING AND CAPPING TO BE FABRICATED IN THE SAME MATERIAL AS THE ADJACENT ROOF AND WALL CLADDING. ALL FLASHING AND CAPPING TO BE INSTALLED IN CONTINUOUS LENGTHS. ALL JOINTS TO BE LAPPED TO MAINTAIN SEAL.

ROOF LIGHTS / SKY LIGHTS
INSTALL ROOF LIGHTS TO POSITIONS AS SHOWN ON ARCHITECTURAL DRAWINGS. ENSURE ROOF LIGHTS EXTEND TO THE FULL SPAN AND ADEQUATELY FLASHED AT RIDGE. SEAL ALL JOINTS IN ROOF LIGHTS WITH 2 BEADS OF APPROVED SILICON TO PREVENT CAPILLARY ACTION BETWEEN SHEETS.

ROOF PENETRATIONS
CUT ROOF PENETRATIONS & INSTALL UNDER FLASHING WHERE DIRECTED OR AS SHOWN ON ARCHITECTURAL & MECHANICAL DRAWINGS. ENSURE UNDER FLASHING HAS SUFFICIENT UPTURN TO ALLOW OVER FLASHING TO BE SECURELY FIXED IN FINAL POSITION.

ROOF DRAINAGE AS PER AS 3500.3 & NATIONAL PLUMBING AND DRAINAGE CODE.

ALL DOWN PIPE / SUMP / OVERFLOW SIZES AS PER CIVIL ENGINEERS DRAWINGS.

ALL INTERNAL DOWN PIPES TO BE UPVC & EXTERNAL DOWN PIPES TO BE COLORBOND.

BOX GUTTER AND EXPANSION JOINTS PROPRIETY SYSTEMS POLYURETHANE RUBBER WITH ZINCALUME COVER PLATES.

REFER TO MECHANICAL AND SERVICES DRAWINGS FOR FURTHER DETAILS FOR OTHER ITEMS REQUIRING ROOF PENETRATIONS.

RAH
PROVIDE AH100 SPACEGATE ROOF ACCESS HATCH OR SIMILAR APPROVED FOR INDUSTRIAL/COMMERCIAL USE. INDUSTRIAL /COMMERCIAL RATED METAL HATCH THAT PROVIDES SAFE ACCESS TO ROOF AREAS. CAN BE INCORPORATED WITH THE SKYCLIMB LADDER SYSTEM TO COMPLY WITH AUSTRALIAN STANDARD.



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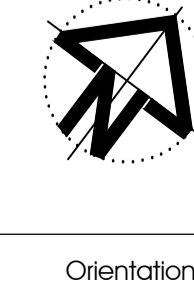
Project:
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At:
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Client:
BILLINGS LONG PTY. LTD.

Drawing Name:
ROOF / WSUD PLAN

Job No: 240406
Date: 31.05.2024
Scale: 1:100 @ A1
Drawn: A.M
Checked: A.M



Drawing No:
TPO4
TOWN PLANNING
DRAWINGS ISSUED FOR TOWN PLANNING

Colour Materials Schedule	
Material Description	Material Sample
A Rolled on textured finish- 'DULUX MONUMENT' (R: 64, G: 65, B: 65, LRV: 8)	
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ADVERTISED PLAN
Application No. P726/2024

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Drawing No:
TP05
TOWN PLANNING
DRAWINGS ISSUED FOR TOWN PLANNING

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Client:
BILLINGS LONG PTY. LTD.

Drawing Name:
MATERIALS SCHEDULE

Job No:	240406
Date:	31.05.2024
Scale:	1:100 @ A3
Drawn:	A.M
Checked:	A.M

Orientation
