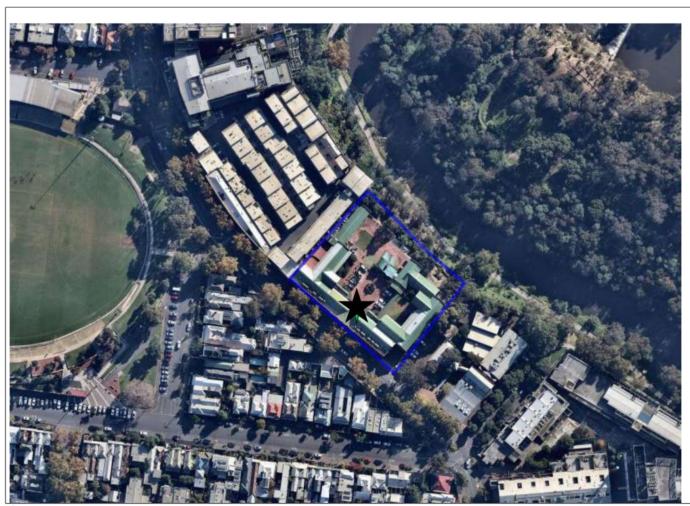
SUBJECT LAND: 64 – 78 Trenerry Crescent Abbotsford



1 North

★ Subject Site



TRENERRY WORKPORT 70 TRENERRY CRESCENT ABBOTSFORD 3067

PROJECT NO: 19023

TOWN PLANNING

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BUILDING	ENV	ELOPE DIAGRAMS & MATERIALS SCHEDULE	
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WWW.FRAUSTRALIA.COM
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VICTIONA SIDE AUSTRALIA
TELEPHONE: +61 3 8986 1888
FENDER KATSALIDIS FUETI FEY LTD ACN OF

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DEVELOPMENT SUMMARY

	11 655 m ²
LEVEL 1	1 818
GROUND FLOOR	2 189
BASEMENT 1	4 761
BASEMENT 2	2 887
LEVEL	AREA
EXISTING GFA	

	10 m²	1 227 m²
LEVEL 1	5	630
GROUND FLOOR	5	597
BASEMENT 1		
BASEMENT 2		
LEVEL	DEMOLITION	EXPANSION
GFA EXPANSION/DEMOLITON		

12 872 m²
2 443
2 781
4 761
2 887
AREA

EXISTING NLA	
LEVEL	ARE
BASEMENT 2	70
BASEMENT 1	90
GROUND FLOOR	1 93
LEVEL 1	1 64
	5 214 n

NLA EXPANSION/DEMOLITIO	N	
LEVEL	DEMOLITION	EXPANSION
BASEMENT 2	63	8
BASEMENT 1	0	4
GROUND FLOOR	13	604
LEVEL 1	18	627
	94 m²	1 243 m²

TOTAL NLA	
LEVEL	AREA
BASEMENT 2	650
BASEMENT 1	938
GROUND FLOOR	2 524
LEVEL 1	2 251
	6 363 m²

^{*} Proposed Basement 2 total NLA represents a reduction from existing NLA due to addition of new toilet facilities in place of existing office space

EXISTING SITE COVERAGE	
TOTAL SITE AREA	5 922m²
EXISTING SITE COVERAGE	2 189 m²
PERCENTAGE OF SITE AREA	37%
PROPOSED SITE COVERAGE	
TOTAL SITE AREA	5 922m ²
PROPOSED SITE COVERAGE	2 781 m²
PERCENTAGE OF SITE AREA	47%
EXISTING SITE PERMEABILITY	
	1 106 m²
PERCENTAGE OF SITE AREA	19%
PROPOSED SITE PERMEABILITY	
	621 m²
	20%

2	6
109	36
73	
CARS	BIKES
195	30
10	6
109	24
76	
CARS	BIKES
	76 109 10 195 CARS 73

PROPOSED NLA - WEST	
LEVEL	AREA
GROUND FLOOR	1 091
LEVEL 1	1 068
	2 156 m

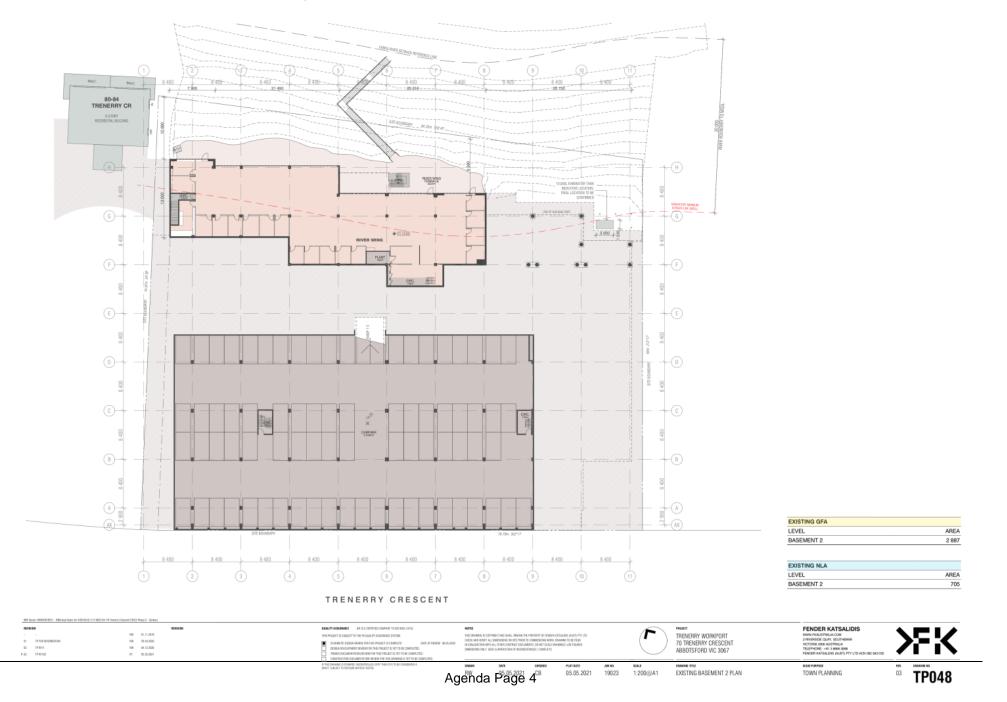
PROPOSED NLA - EAST	
LEVEL	AREA
GROUND FLOOR	1 382
LEVEL 1	1 186
	2 568 m ²

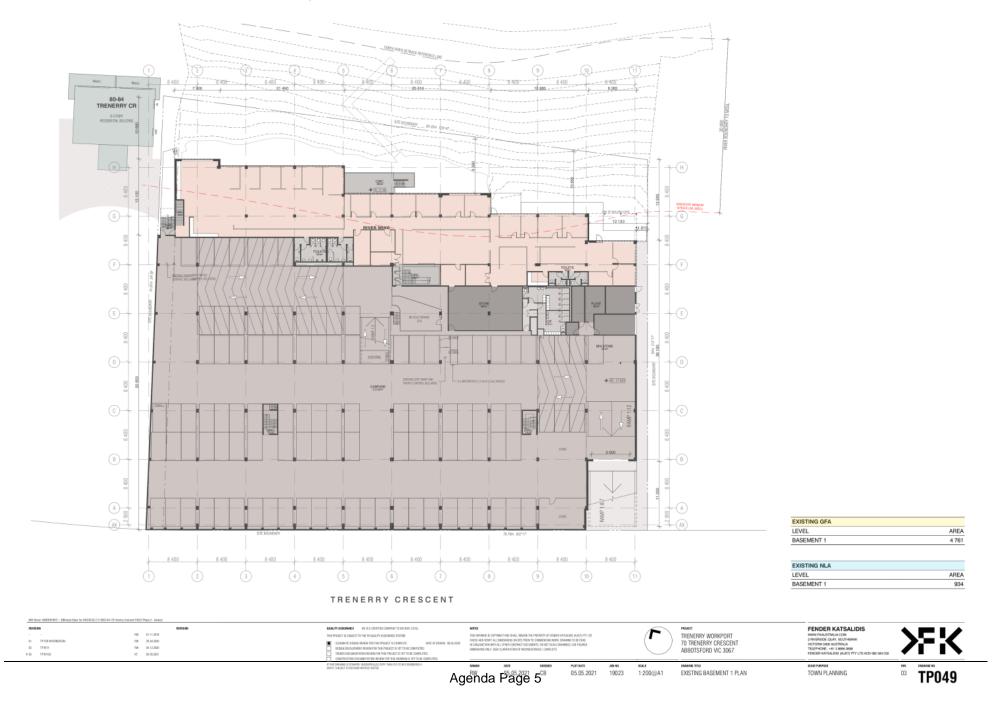
PROPOSED NLA - RIVER	
LEVEL	AREA
BASEMENT 2	650
BASEMENT 1	938
GROUND FLOOR	51
	1 639 m ²

FW 01.11.2019 FW 29.04.2020 FW 04.12.2020 FT 05.05.2021

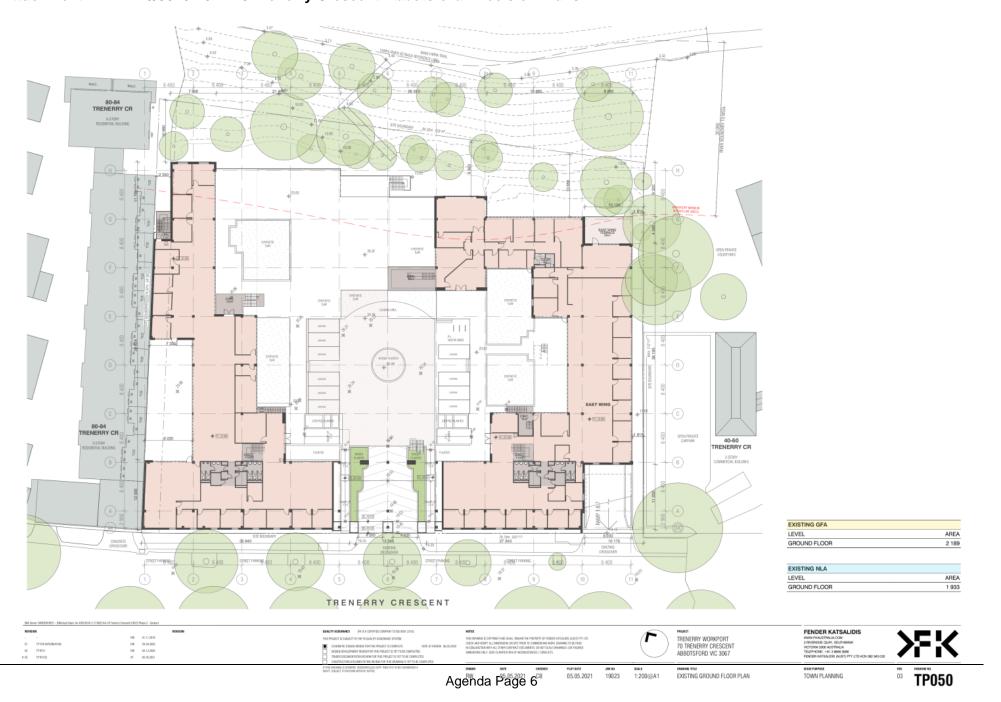
TRENERRY WORKPORT 70 TRENERRY CRESCENT ABBOTSFORD VIC 3067

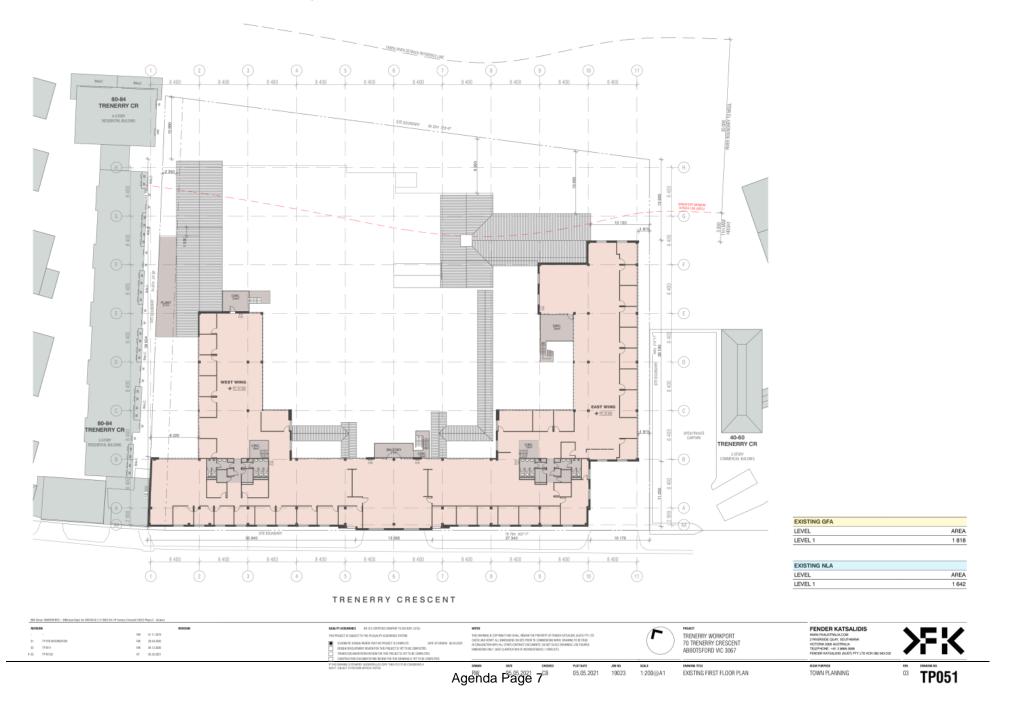
FENDER KATSALIDIS PENDER KATSALIDIS
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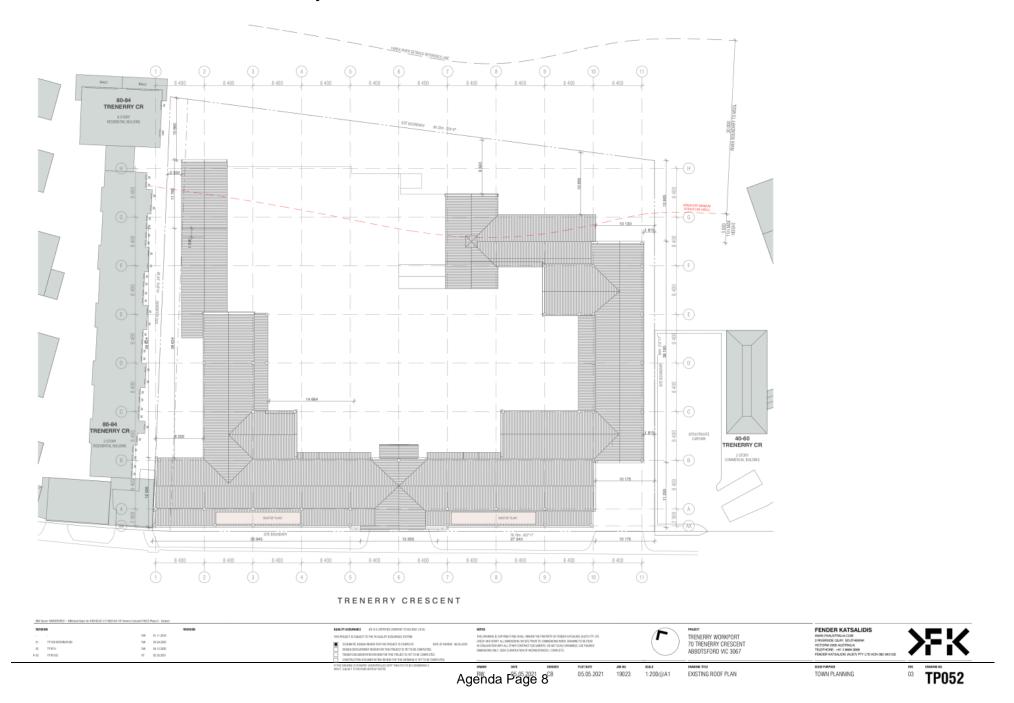


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Attachment 2 - PLN20/0646 - 64 - 78 Trenerry Crescent Abbotsford - Decision Plans





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NOTES

EXISTING STREET INTERFACE (TRENERRY CRESCENT)

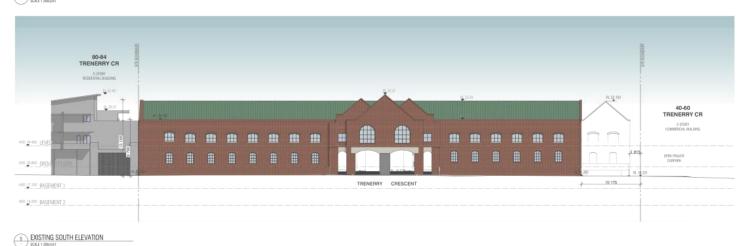
- NO PLANNED BUILDING ENVELOPE ALTERATIONS TO THE EXISTING FACADE FRONTING TRENERRY CRESCENT.
- 2. NO PLANNED ALTERATIONS TO EXISTING FOOTPATH AND CROSSOVERS ALONG THENERRY CRESCENT
- 3. NO PLANNED ALTERATIONS OR REMOVAL OF EXISTING TREES AND LANDSCAPING ALONG TRENERRY CRESCENT

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- 2. RE-PAINTING OF LINTELS OVER PEDESTRIAN, VEHICLE AND CARPARK ENTRANCES
- 3. RE-PAINTING OF COLUMN IN THE MIDDLE OF CENTRAL ENTRANCE (GROUND FLOOR)



N EXISTING NORTH ELEVATION





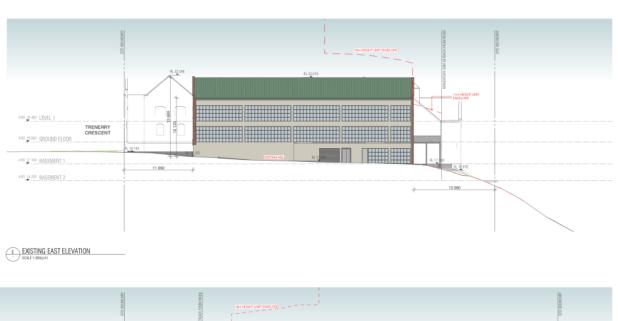
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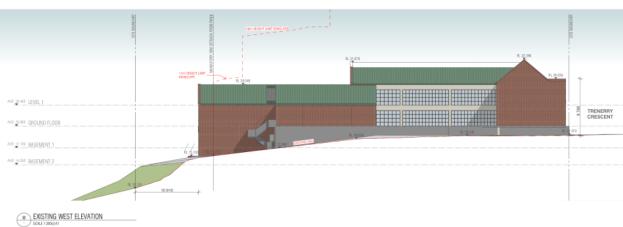
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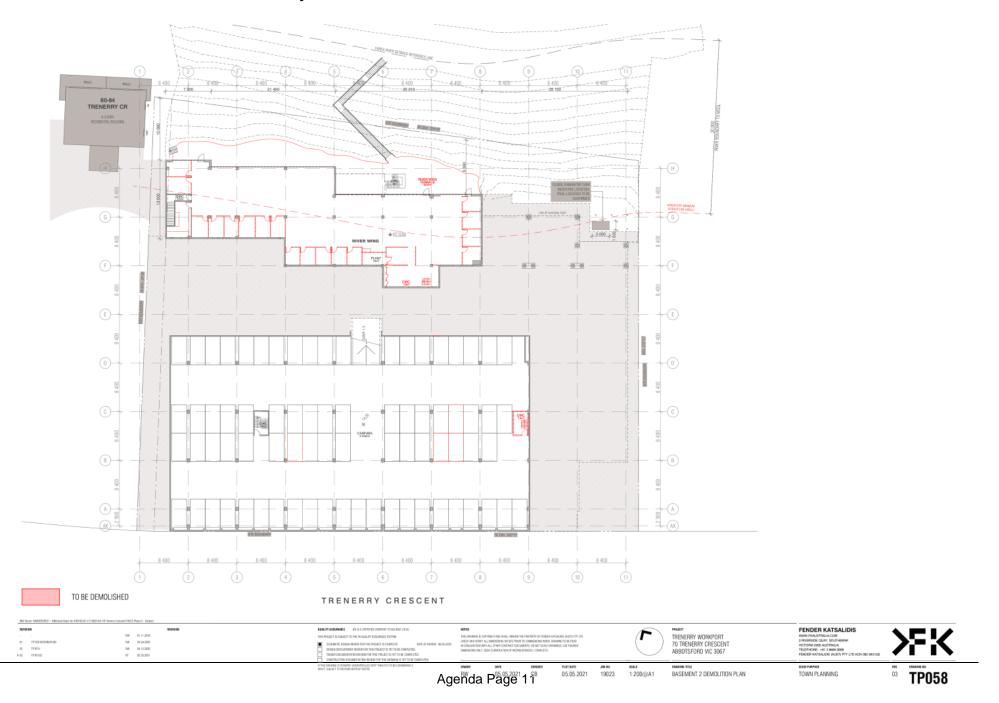


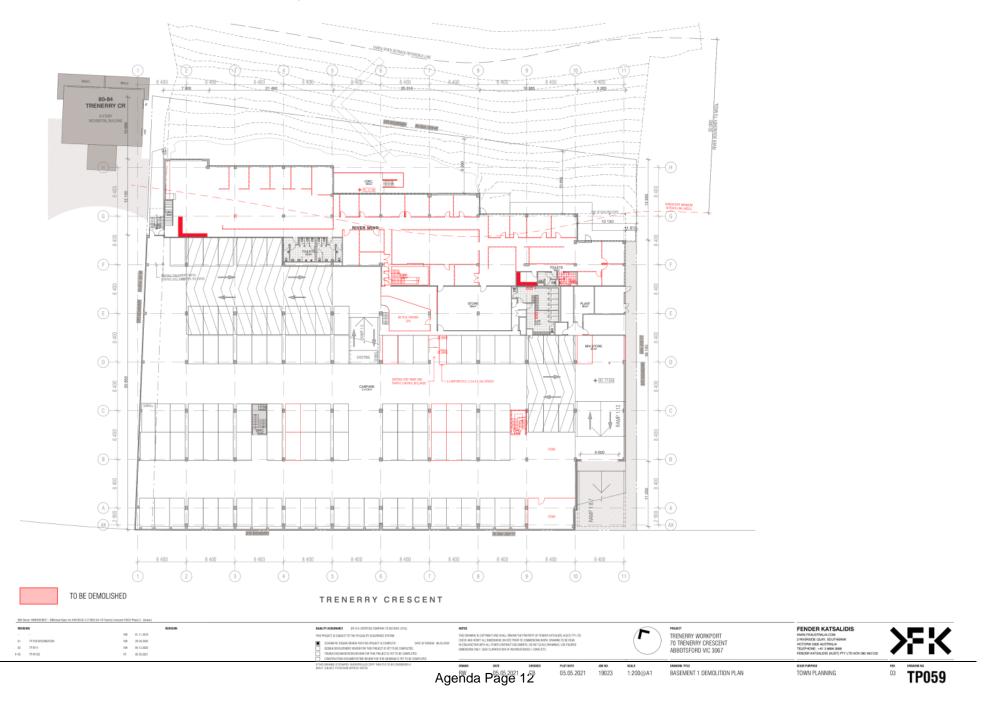






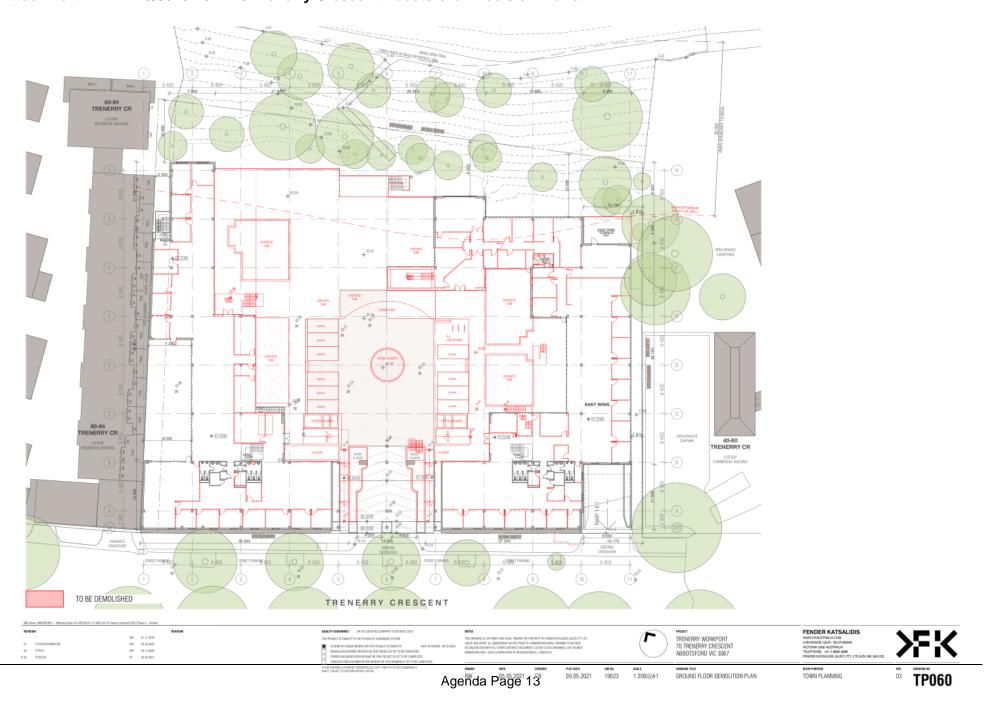
Agenda Page 11



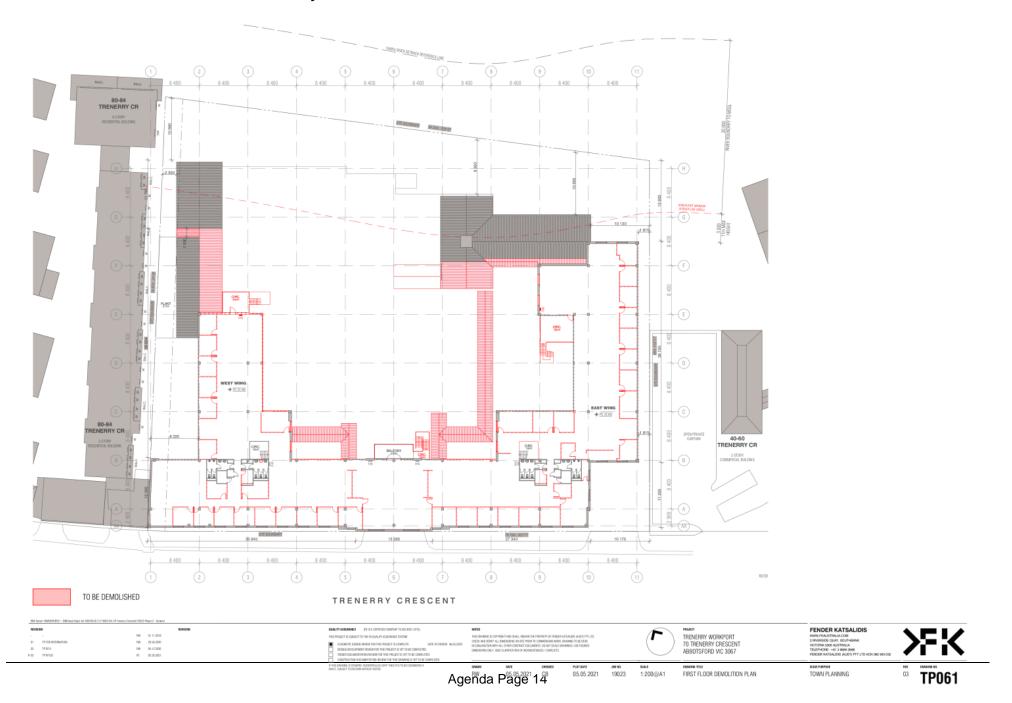


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Attachment 2 - PLN20/0646 - 64 - 78 Trenerry Crescent Abbotsford - Decision Plans



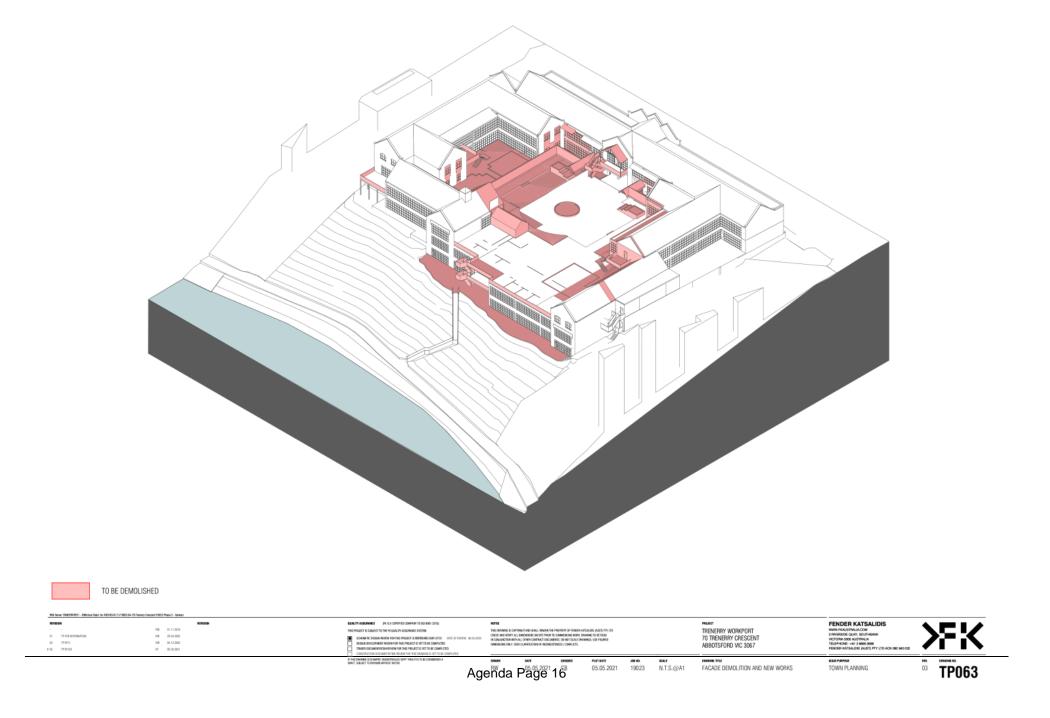
Agenda Page 14



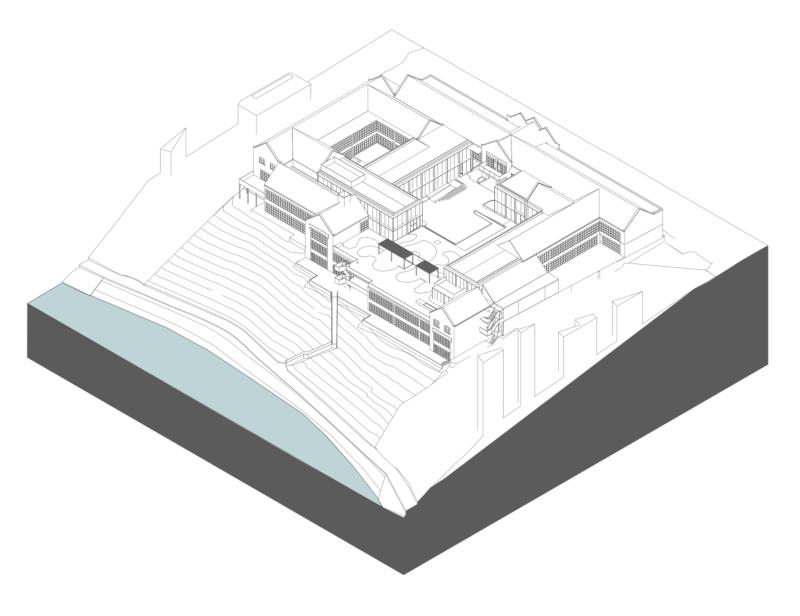
Agenda Page 15



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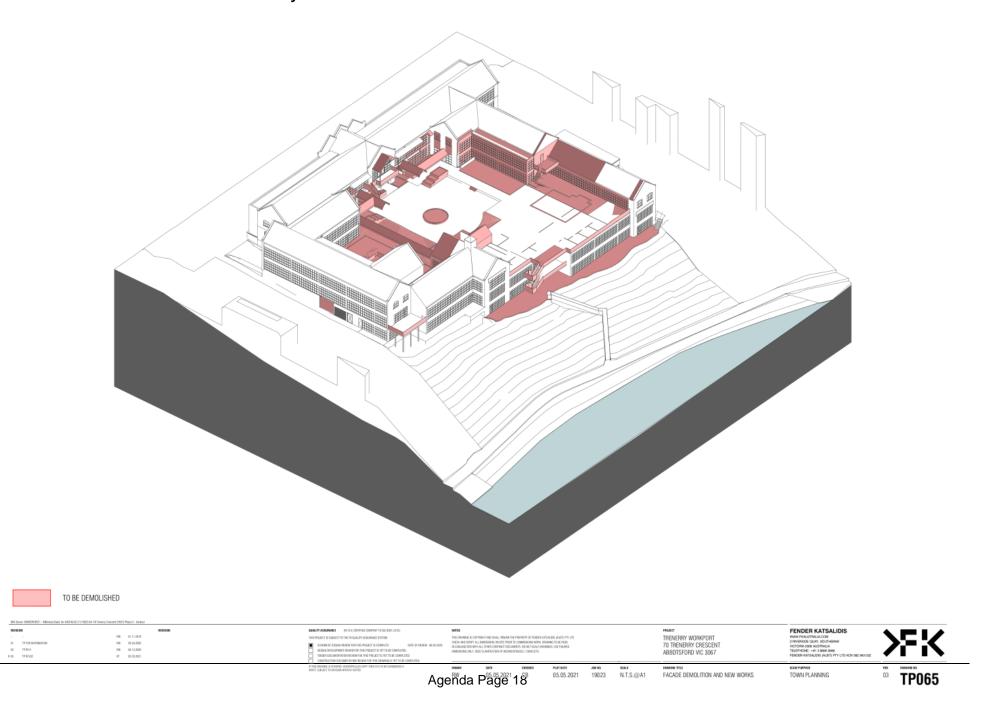
Agenda Page 17
Attachment 2 - PLN20/0646 - 64 - 78 Trenerry Crescent Abbotsford - Decision Plans



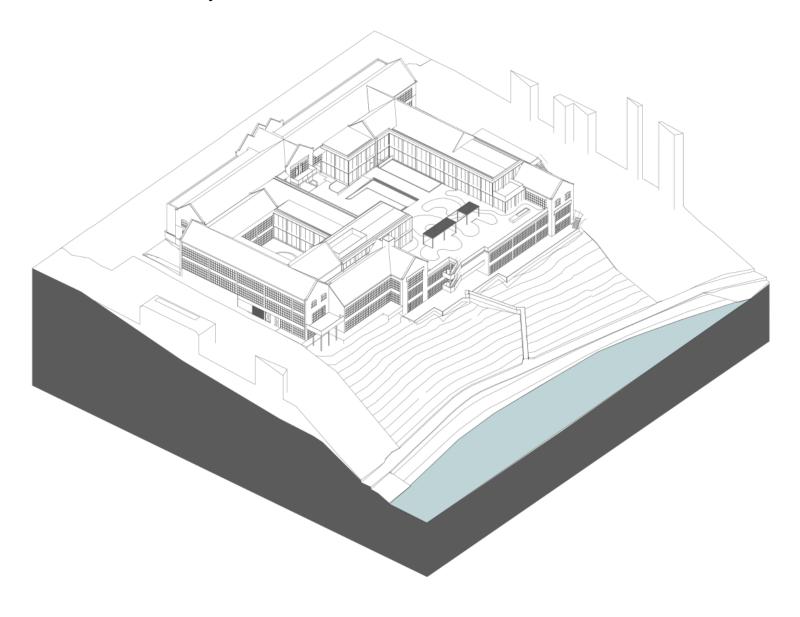
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Attachment 2 - PLN20/0646 - 64 - 78 Trenerry Crescent Abbotsford - Decision Plans

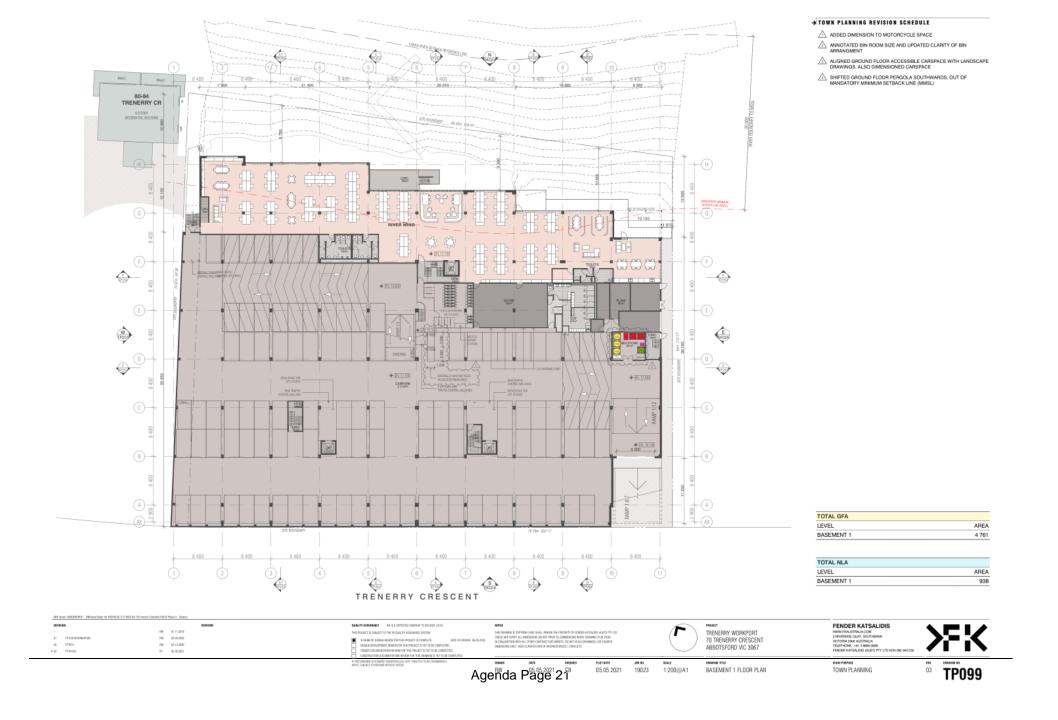


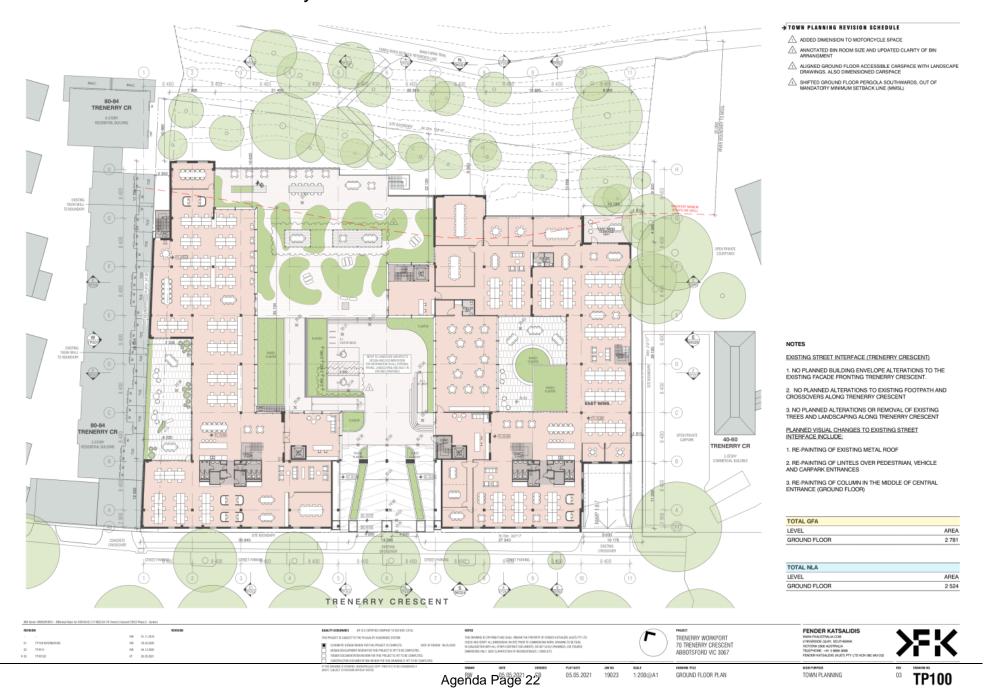
Agenda Page 19

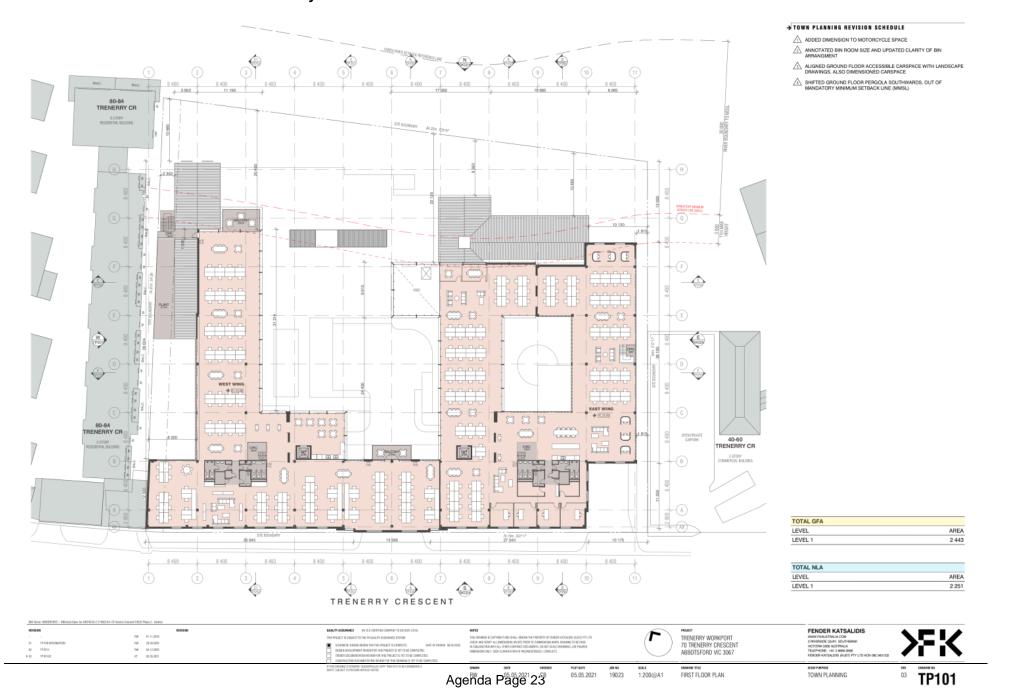


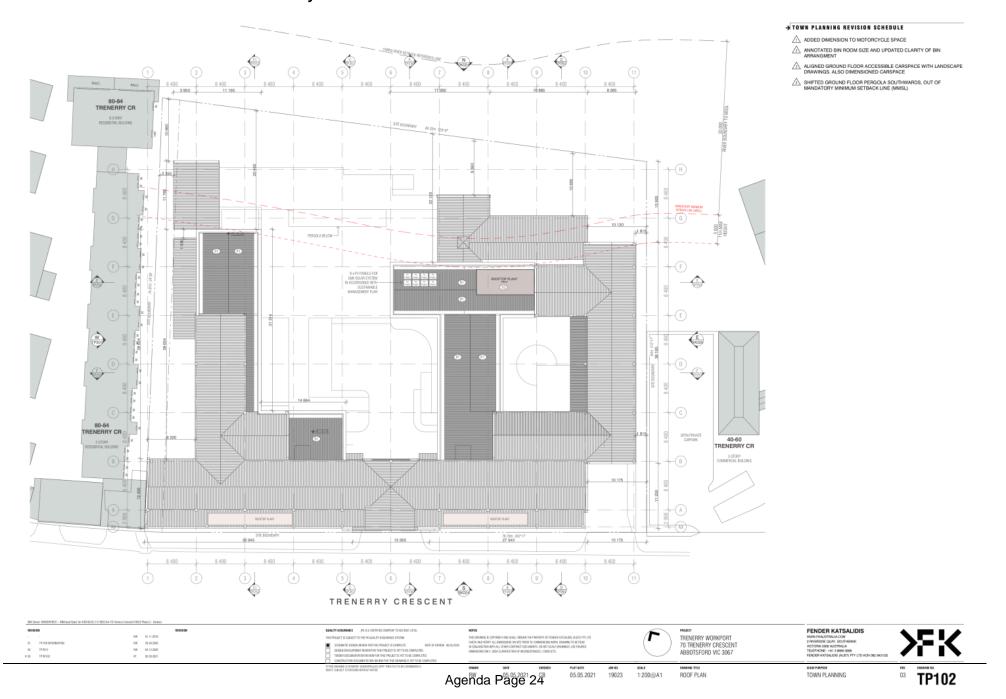
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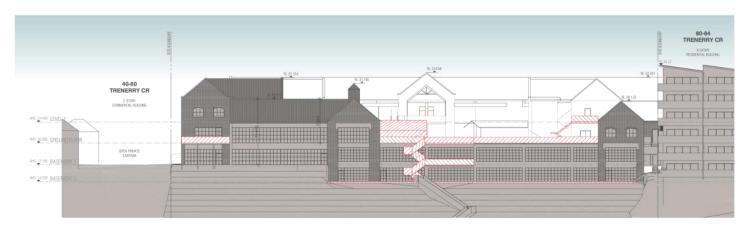
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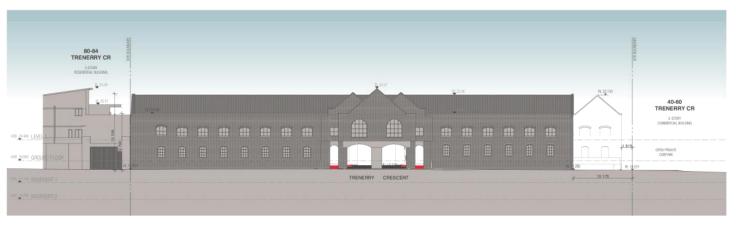
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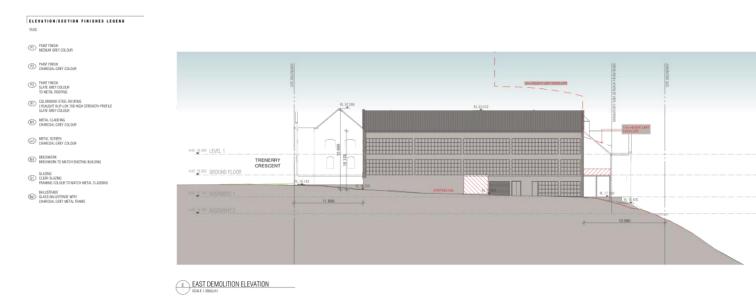


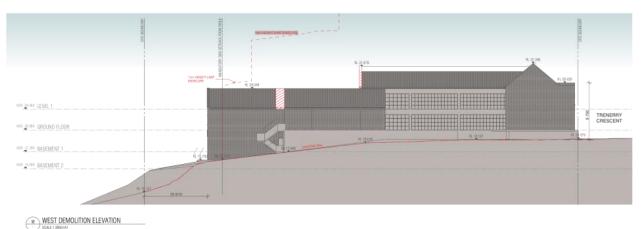
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EXISTING STREET INTERFACE (TRENERRY CRESCENT)

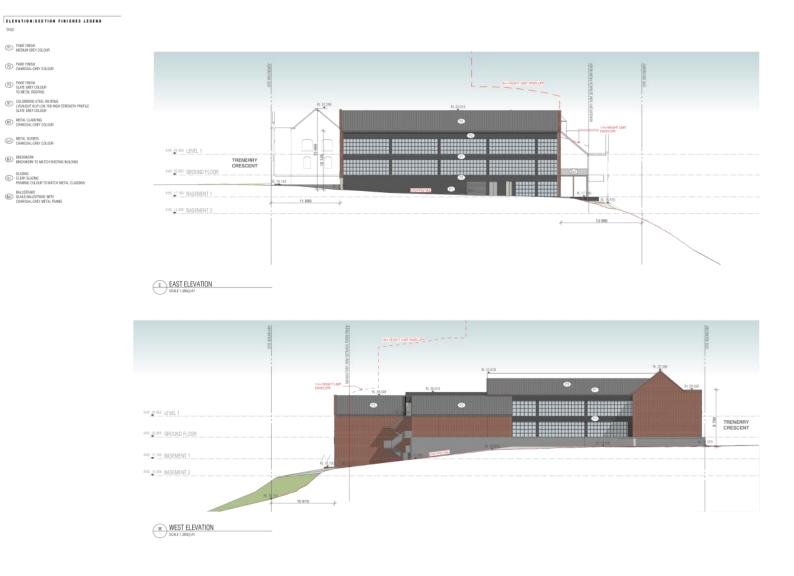
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NOTE: NATURAL GROUND LINE SOURCED FROM VICINAP DATA



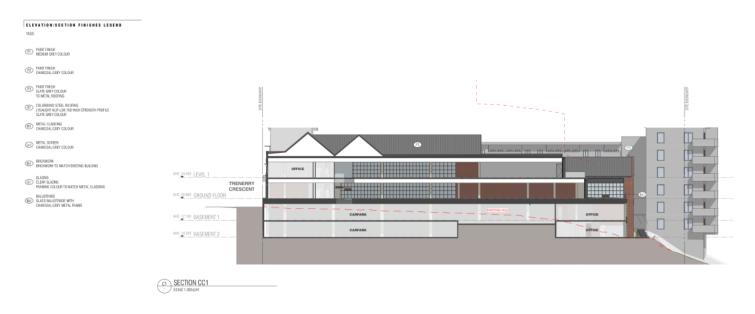
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			RW .	a Page 2	CB	05.05.2021	19023	1:200@A1	SECTIONS	TOWN PLANNING	03	TP250



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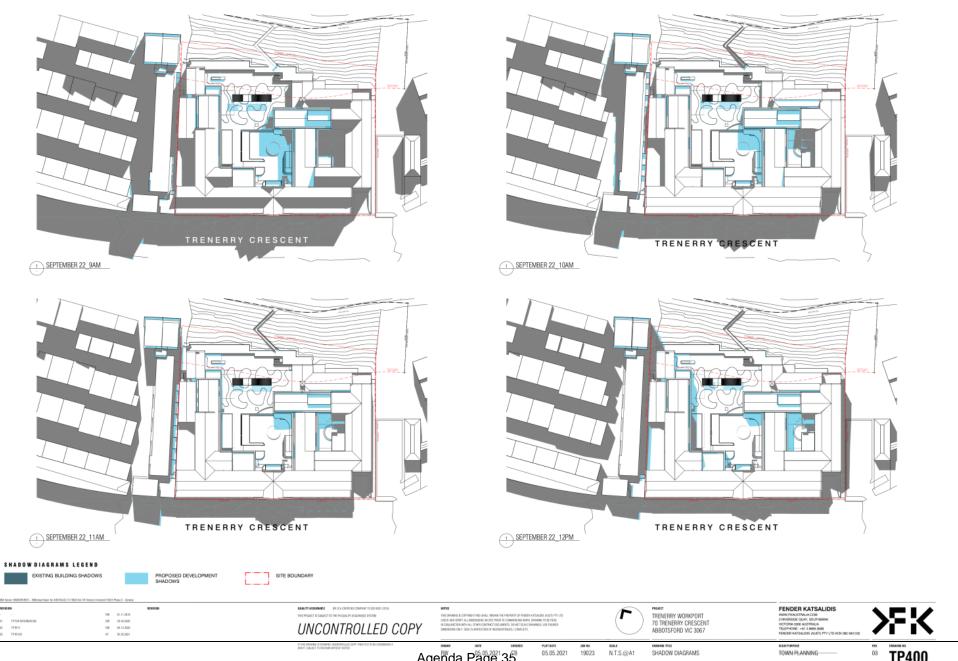
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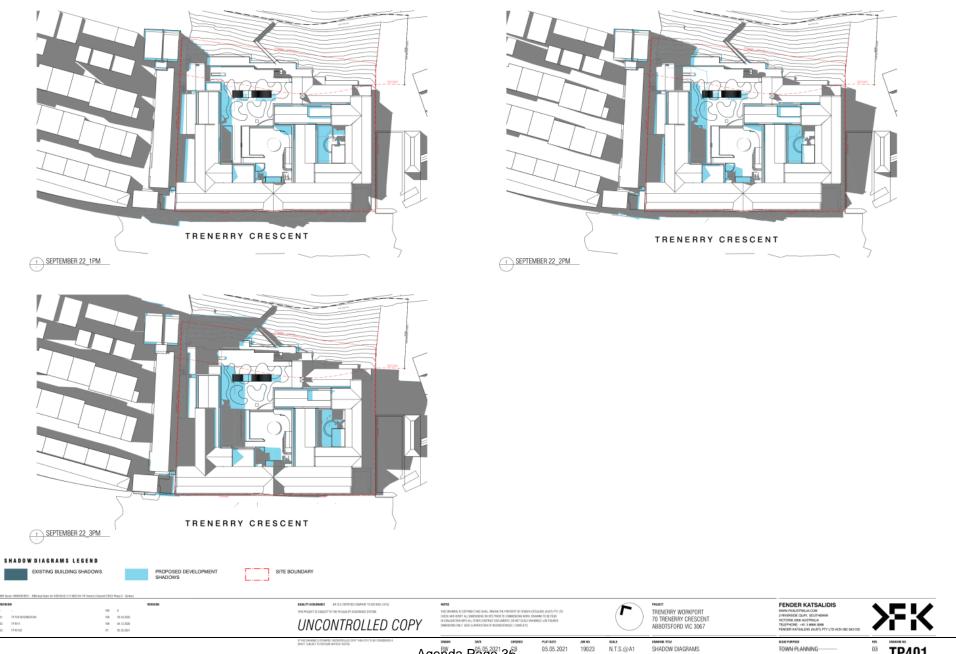
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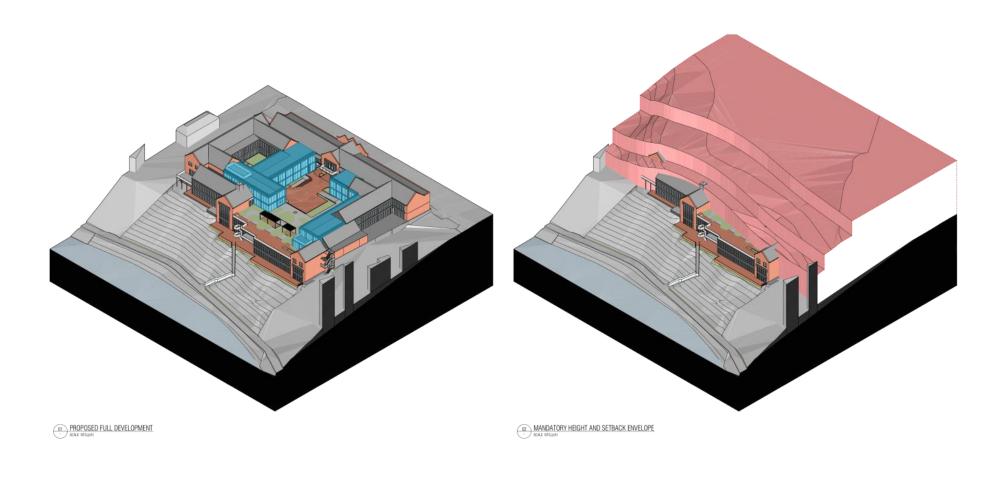


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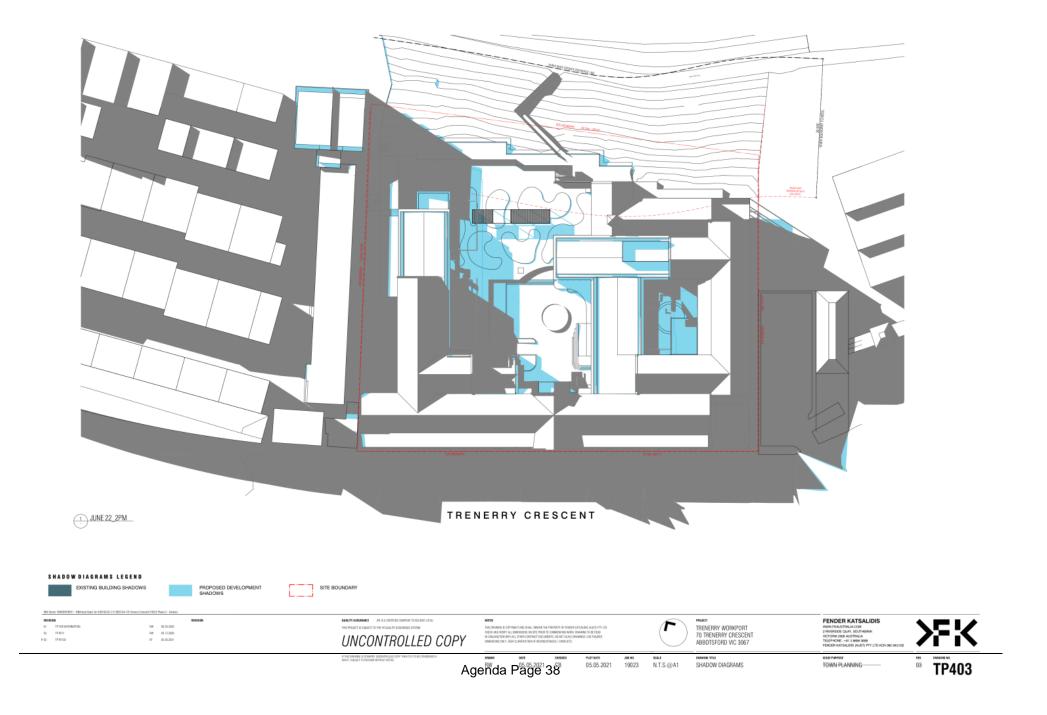
Attachment 2 - PLN20/0646 - 64 - 78 Trenerry Crescent Abbotsford - Decision Plans





Agenda Page 38

Attachment 2 - PLN20/0646 - 64 - 78 Trenerry Crescent Abbotsford - Decision Plans



Attachment 2 - PLN20/0646 - 64 - 78 Trenerry Crescent Abbotsford - Decision Plans



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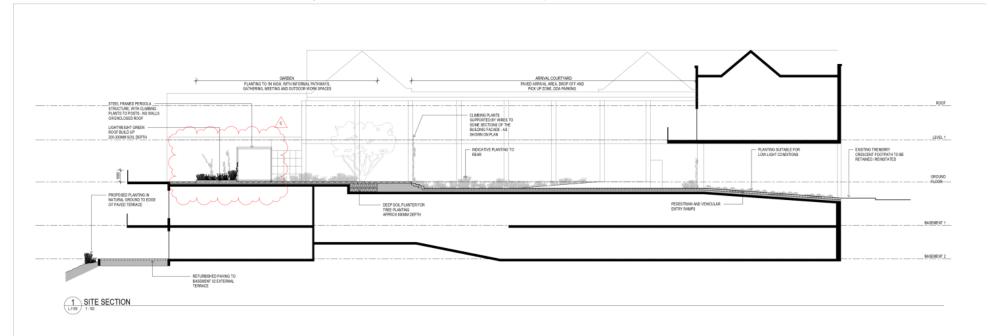
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Attachment 3 - PLN20/0646 - 64 - 78 Trenerry Crescent Abbotsford - Landscape Plans



Attachment 3 - PLN20/0646 - 64 - 78 Trenerry Crescent Abbotsford - Landscape Plans



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Attachment 3 - PLN20/0646 - 64 - 78 Trenerry Crescent Abbotsford - Landscape Plans



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Referral Comments – PLN20/0646 – 64 – 78 Trenerry Crescent Abbotsford

Melbourne Water

Decision

Melbourne Water, pursuant to Section 56(1) of the Planning and Environment Act 1987, does not object to the proposal, subject to the following conditions:

Conditions

- (a) Finished floor levels of the building extensions must be constructed 600mm above the applicable flood levels.
- (b) All open space within the property must be set at existing natural surface level so as not to obstruct the passage of overland flows.
- (c) Any new fencing/gates must be of an open style of construction (minimum 50% open) to allow for the passage of overland flows.
- (d) No imported fill outside of the proposed building footprint.
- (e) The entry / exit driveway of the basement carpark must incorporate a flood proof apex of a minimum of 600mm above the applicable flood level.
- (f) All doors, windows, vents and openings to the basement car park must be a minimum of 600mm above the applicable flood level.
- (g) Prior to the commencement of works, a separate application direct to Melbourne Water must be made for any new or modified storm water connection to Melbourne Water's drains or watercourses.

Advice (Note)

The flood level for the property grades from 12.53 metres to Australian Height Datum (AHD) at the north-west corner down to 12.43 metres to Australian Height Datum at the north east corner. These level are based upon a flood which has a 1% Annual Exceedance Probability, that is, a probability of being equalled or exceeded in any one year.

Heritage

Proposed works include:

- · the partial demolition of unused access ways and spaces,
- reconfiguration of the existing 2 levels of basement parking;
- · refurbishment of 2 office levels of River, East and West Wings and
- · extension of East and West Wings

Comments on Extent of Demolition:

The subject site is identified as non-contributory; there are no heritage concerns regarding the extent of demolition.

Comments on Proposed Extension:

A majority of the proposed works are within the existing building complex with no change to the street façade of the existing Trenerry Crescent frontage. All internal development will only be visible a distance from the north east, which is the Yarra River open space.

Proposed alterations and extensions will have no impact on the character or appearance of the Trenerry Crescent streetscape of the precinct as a whole.

Comments on Materials and Finishes:

The proposed works will involve the painting of parts of the existing Trenerry Crescent façade as well as the roof cladding.

The existing building was designed to respond to the established industrial heritage character of built form in Trenerry Crescent. The unpainted face brickwork of the existing building plays a critical role in ensuring that the development responds well to the industrial heritage surroundings. While the painting of the face brickwork in any colour would not be supported, the repainting of the existing cement render details in shades of grey is acceptable.

The repainting of the green roof cladding in a 'slate grey' colouring would be supported.

RECOMMNEDATION

 On heritage grounds the works proposed in this application may be approved without specific heritage conditions.

Biodiversity Referral

This development occurs within an SLO1 of the Yarra Planning Scheme. The key SLO1 environmental (biodiversity) objectives and decision guidelines that relate to planting palettes are:

- The ability for proposed vegetation species to be matched to the local plant communities.
- To protect, rehabilitate and expand a continuous corridor of riparian and indigenous vegetation using appropriate indigenous species.
- Whether sufficient vegetation and canopy trees of appropriate species are to be planted to replace the removal of the existing vegetation and mature canopy trees.
- To protect and enhance both terrestrial and aquatic habitat to allow the movement of wildlife within the Yarra River corridor.

RECOMMENDATION

Therefore the proposed planting palette should consist of:

- Species that are locally indigenous to the Melbourne area;
- Exotic species should only be used if a local indigenous plant to the Melbourne Area cannot perform the same intended function (e.g. Japanese Maple shedding leaves to allow winter sun in the courtyard);
- Species selection should be consistent with the following local Victorian Volcanic Plains Bioregion Ecological Vegetation Classes (EVC): Riparian Woodland (EVC 641) and Plains Grassy Woodland (EVC 55_61).

Use of plants that are not locally indigenous and have the ability to naturalise and can unintentionally spread into the Yarra River riparian corridor river, negatively impacting on biodiversity values.

The following species listed in the planting palette are suitable for use provided the genetic origin is sourced less than 10km from Abbotsford and within the Victorian Volcanic Plains Bioregion:

- Carex apressa
- Ficinia nodosa
- Chrysocephalum apiculatum

Under no circumstances can *Hedera helix* be used. It's highly invasive and will naturalise in the riparian corridor.

The planting palette includes many species that are not locally indigenous. The table below outlines a palette of local indigenous species that are suggested as replacements for the species listed in the planting palette.

Botanical Name	Common Name	Spacing	Woodland	Plains Grassy Woodland EVC	Examples Of Planting Palette Species In This Column To Be Replaced With Species In the Far Left Hand Column
Trees					
Eucalyptus leucoxylon	'Eucy Dwarf'	As required		ü	Blueberry Ash
Banksia marginata	Silver Banksia	As required		ü	Blueberry Ash/Crepe Myrtle
Large Shrubs					
Acacia melanoxylen	Blackwood	1 plant/m ²	ü		
Acacia pycnantha	Golden Wattle	1 plant/m ²		ü	
Acacia paradoxa	Hedge Wattle	1 plant/m ²		ü	
Bursaria spinosa	Sweet Bursaria	1 plant/m ²	ü	ü	
Callistemon sieberi	River Bottle Brush	1 plant/m²	ü		Crepe Myrtle, <i>Callistemon</i> 'Green John'
Correa reflexa	Common Correa	1 plant/m²		ü	Correa glabra 'lvory Lantern', Correa alba
Gynatrix pulchella	Hemp Bush	1 plant/m ²	ü		
Leptospermum obovatum	River Tea- tree	1 plant/m ²	ü		
Melicytus dentatus	Tree Violet	1 plant/m ²	ü		
Viminaria juncea	Golden Spray	1 plant/m²			Adenanthos sericeus 'Silver Streak'
Dodonaea viscosa	Sticky Hop Bush	1 plant/m ²	ü		<i>Philodendron</i> 'Xanadu'
Small Shrubs, Groundcovers & Climbers					
Acaena novae-	Bidgee-	6	ü	ü	Crassula tetragona
zelandiae	widgee	plants/m ²			
Atriplex semibaccata	Berry Saltbush	4 plants/m²		ü	Carpobrotus rossii, Crassula tetragona,
Austrostipa mollis	Supple Spear-grass	4 plants/m ²		ü	Sedum cyclidricus
Bulbine bulbosa	Bulbine Lily	8 plants/m²	ü	ü	Aloe plicatilis, Anigozanthos 'Gold Velvet'
Clematis microphylla	Small-leaved Clematis	4 plants/m²			Parthenocissus tricuspidata

Dianella revoluta s.l.	Black-anther Flax-lily	4 plants/m²	ü	ü	Clivia miniate, Senecio serpens, Dianella caerulea 'Little Jess'
Dichondra repens	Kidneyweed	6 plants/m²	ü	ü	Crassula undulata, Hedera helix
Einadia nutans	Nodding Saltbush	6 plants/m²		ü	Carpobrotus rossii, Crassula tetragona
Goodenia ovata	Hop Goodenia	4 plants/m ²		ü	Plectranthus ciliates, Asparagus densiflorus
Hardenbergia violacea	Purple Coral-pea	4 plants/m²		ü	Wisteria spp
Lomandra longifolia	Spiny- headed Mat- rush	4 plants/m²	ü	ü	Clivia miniate, Asparagus densiflorus
Microlaena stipoides	Weeping Grass	4 plants/m2	ü	ü	Hedera helix
Poa labillardierei	Common Tussock- grass	4 plants/m²	ü	ü	Aloe plicatilis, Plectranthus ciliatus
Rytidosperma racemosum	Stiped Wallaby- grass	4 plants/m ²		ü	Aloe plicatilis, Callistemon 'Green John'
Themeda triandra	Kangaroo Grass	4 plants/m²		ü	Senecio serpens, Strelitzia reginae
Wahlenbergia gracilis s.s.	Sprawling Bluebell	6 plants/m²		ü	Scaevola aemula

Plants must be purchased from a commercial nursery that supplies indigenous plants of local provenance. In this case, the City of Yarra suggests VINC (Victorian Indigenous Nurseries Cooperative, based in Fairfield) is engaged to supply the relevant indigenous plants of local provenance in tubes/cells and larger pots if required.

Substitution of plant species outside the local range, due to availability shall be at the discretion of the City of Yarra before species have been ordered.

Open Space

The landscape concept proposal is fine and is certainly an improvement over what is currently there.

RECOMMENDATION

If a planning permit is issued for the development, I would like to request detailed landscape plans that:

- (a) show the type, location, quantity, height at maturity and botanical names of all proposed plants;
- (b) provide details of the raised planters and terrace/rooftop planting (including planter box materials and dimensions, mulch layer – something that won't blow away, growing media – suitable in weight and content for roof top gardens, filter media, irrigation method, drainage system, root barrier / water proofing layer);
- (c) provide details of the proposed method for irrigation and drainage;

- (d) detail the maintenance (duration, regime) and irrigation;
- (e) provide a specification of works to be undertaken prior to planting; and
- (f) detail plant/planting maintenance schedules and requirements.

City Works (WMP)

RECOMMENDATION

(a) In order to assess whether enough space has been allocated to form an effective waste system please include the total footprint of the bins allocated and the space available in the bin storage room in M²

ESD Officer

The standard of the ESD <u>does not meet</u> Council's Environmental Sustainable Design (ESD) standards. Should a permit be issued, the following ESD commitments (1) and deficiencies (2) should be conditioned as part of a planning permit to ensure Council's ESD standards are fully met.

(1) Applicant ESD Commitments:

- Services design will document a metering and monitoring strategy for energy and water sources and install meters and monitoring equipment for all common, individual tenant spaces, and major uses (SMP, p. 5).
- The head contractor will have an ISO14001 certified Environmental Management System and be required to implement a project-specific Environmental Management Plan (SMP, p. 5).
- Specifications around TVOC and formaldehyde limits to align with GBCA requirements (SMP, p. 5).
- The BESS report indicates 66% of nominated floor area achieves a DF>2.0 (IEQ 1.4).
- Newly installed glazing will exceed NCC Section J requirements by 10% (SMP, p. 6).
- Refurbishment of bicycle storage facility with 36 bicycle spaces, and 6 visitor spaces (SMP, p. 2).
- Commitment to 20% reduction in the NCC 2016 lighting density requirements (SMP, p. 2).
- Hot water system to be upgraded throughout the development (retained and new areas) (SMP, p. 2).
- Water efficient fixtures and taps (SMP, p. 7).
- Native or drought-tolerant plants will be preferred for the landscaped and mulch to help minimise water requirements – with irrigation provided via a 10,000-litre rainwater tank (SMP, p. 7).
- Steel to be sourced from a Responsible Steel maker (SMP, p. 8).
- Specifications around certified timber and PVC (SMP, p. 8).
- The new thermal insulation will not contain any ozone- depleting substances and will not use any
 in its manufacturing (SMP, p. 8).
- A 2kW rooftop solar PV system is proposed (SMP, p. 6).

(2) Application ESD Deficiencies:

- Some commitments rely on ambiguous language such as 'wherever possible', and 'it is
 encouraged' replace with clear language that articulates the (firm) extent of each commitment.
- No STORM of MUSIC model has been provided to articulate the developments best practice
 approach to stormwater management and rainwater reuse, despite 100% being claimed in the
 BESS report.
- Whilst the development commits to best practice in terms of predicted mean vote levels, the new
 development does provides no protection to northern and western facades or information on
 what windows will be operable. A shading and ventilation strategy is required to address these
 concerns
- The solar PV system should be significantly increased to better cater for the energy consumption on site.

(3) Outstanding Information:

- Confirm provision of outdoor air to office spaces on all levels and consider incorporating a series
 of operable windows (i.e. louvres) to provide natural cross-ventilation to reduce reliance on
 mechanical systems.
- Remove ambiguous language and confirm extent of VOC strategy.
- Revise all commitments against NCC 2019 and provide a Section J Report articulating improvements (including building fabric). Noting that 10% above NCC 2016 is not considered best practice nor provides the building with a sufficient level of future proofing.
- Revise against NCC 2019, and include within Section J Report detailing the proposed building with reference services to articulate building fabric improvements.
- · Confirm HWS and consider using a heat pump.
- Confirm extent of HVAC strategy (whether existing spaces will be serviced by the VRF system).
- · Confirm CO monitoring.
- Confirm lighting commitment against NCC 2019.
- · Confirm if there is no new gas connections (i.e. gas existing), or no gas throughout development.
- Confirm irrigation system.
- Provide a STORM or MUSIC model.
- Confirm extent of either recycled materials (i.e. bricks) or materials with post-consumer content (i.e. insulation).
- Confirm extent (by weight or cost) of embodied energy strategy and consider reclaimed water and recycled aggregate for concrete components.
- Remove ambiguous language and clarify extent of commitment for sustainable timber.
- Remove ambiguous language and clarify extent of commitment for limiting PVC impacts.
- Confirm surrounding locations of car-share programs and/or a collaboration within the development and include within a Green Travel Plan.
- Provide a Green Travel Plan with performance targets and monitoring and reporting components included.
- Confirm size of bin store room and amend plans to reflect bin type and layout as per WMP.
- Provide a statement that addresses urban heat considering the north-east facing courtyard and consider additional climbing vegetation to cover the masonry components which are susceptible to heat gain.
- Confirm all energy and water management systems will be commissioned in accordance with the manufacturer's specifications
- Provide a Building Users Guide explaining optimal usage of building services to minimise energy and water consumption.

(4) ESD Improvement Opportunities

- Increase the rainwater tank size to service toilet flushing throughout.
- Provide a small pallet of materials and construction techniques that can assist in disassembly.
- While the increase in bike parking is welcome, being so well positioned along the Yarra Trail and within cycling distance to the CBD more bicycle parking spaces should be strongly considered.
- Provide some charging stations or wiring for future.
- Increase green cover (to mitigate urban heat as mentioned above) and increase the ecological value of the site.
- Provide commitments that would elevate the proposal beyond 'best practice'.

The ESD Officer confirmed in email dated 31 May 2021 that as a non-residential use (i.e. higher daytime energy draw), a rooftop solar PV system of at least 30kW should be conditioned in the permit.

Traffic Engineering

Under the provisions of Clause 52.06-5 of the Yarra Planning Scheme, the development's parking requirements are as follows:

Proposed Use	Quantity/ Size	Statutory Parking Rate*	No. of Spaces Required	No. Spaces Allocated	of
Office	6,363 m ²	3.0 spaces per 100 m ² of net floor area	190	182	

^{*} Since the site is located within the Principal Public Transport Network Area, the parking rates in Column B of Clause 52.06-5 now apply. A reduction of 8 car spaces in the car parking requirement is sought.

Car Parking Demand Assessment

In reducing the number of parking spaces required for the proposed development, the Car Parking Demand Assessment would assess the following:

- Parking Demand for Office Use.

The proposed office use would be provided with a total of 182 on-site parking spaces, which equates to a parking rate of 2.86 spaces per 100 square metres of floor area.

Throughout the municipality, a number of developments have been approved with reduced office rates, as shown in the following table:

Development Site	Approved Office Parking Rate
60-88 Cremorne Street, Cremorne	0.72 spaces per 100 m ²
PLN17/0626 issued 21 June 2018	(200 on-site spaces; 27,653 m ²)
2-16 Northumberland Street, Collingwood PLN16/0435 issued 14 June 2017	0.89 spaces per 100 m ² (135 on-site spaces; 15,300 m ²)
51 Langridge Street	0.54 spaces per 100 m ²
PLN17/0332 (Amended) issued 18 May 2018	(18 on-site space; 3,335 m ²)

The proposed on-site office parking rate has reduced to 2.86 spaces per 100 square metres of office floor area (compared to the previous parking rate of 3.76 spaces per 100 square metres of office floor area). The site's good accessibility to public transport services and proximity to Melbourne would encourage visitors to the site to utilise more sustainable forms of transportation such as catching public transport or riding a bicycle, and perhaps consider carpooling as a means of reducing the likelihood of parking on-street – measures that are in line with Council's position on promoting sustainable and active transport.

- Availability of Public Transport in the Locality of the Land.
 The following public transport services can be accessed to and from the site by foot:
 - Johnston Street buses 190 metre walk
 - Victoria Park station 430 metre walk
 - Hoddle Street buses 600 metre walk
- Multi-Purpose Trips within the Area.

Visitors and clients to the site might combine their visit by engaging in other activities or business whilst in the area.

Convenience of Pedestrian and Cyclist Access.
 The site is easily accessible by pedestrians and bicycles.

Appropriateness of Providing Fewer Spaces than the Likely Parking Demand Clause 52.06 lists a number of considerations for deciding whether the required number of spaces should be reduced. For the subject site, the following considerations are as follows:

Availability of Car Parking.

Due to the COVID-19 restrictions, car parking occupancy surveys would not provide an accurate representation of car parking demands in the surrounding area at this time.

To determine the parking demands in the surrounding area, the on-street car parking occupancy survey for the development at 288-296 Johnston Street, Abbotsford (Application Number PLN17/0948), has been referenced. Although the survey results are slightly outdated, the survey results provide an insight to the likely parking demands in this part of Abbotsford.

Cardno had conducted on-street parking occupancy surveys on Thursday 17 August 2017 from 5:00pm to 9:00pm and on Saturday 19 August 2017 from 2:00pm to 8:00pm. The survey area encompassed Johnston Street (Hoddle St to Nicholson St), Stafford Street, Lulie Street, Rich Street and Park Street. The survey times could have included the morning periods of both days. An inventory of 330 publicly available parking spaces was identified. The survey results recorded that a peak peaking occupancy of 73 % had occurred at 8:00pm on the Thursday evening. At that time, 88 spaces were vacant. On the Saturday, the peak parking occupancy also occurred at 8:00pm, resulting in 86 spaces vacant. Although the surveys show the availability of on-street parking, the recent redevelopment of sites in the area (such as 247 Johnston Street) would also compete for available on-street parking.

- Relevant Local Policy or Incorporated Document.

The proposed development is considered to be in line with the objectives contained in Council's *Strategic Transport Statement*. The site is ideally located with regard to sustainable transport alternatives and the reduced provision of on-site car parking would potentially discourage private motor vehicle ownership and use.

Adequacy of Car Parking

From a traffic engineering perspective, the full wavier of parking associated with the development is considered appropriate in the context of the development and the surrounding area.

The Civil Engineering unit has no objection to the reduction in the car parking requirement for this site.

Layout Design Assessment

Layout Design Assessment						
Item	Assessment					
Access Arrangements						
Development Entrance – Trenerry Crescent	Although the geometry of the raised planter has been modified at the development's entrance, the dimensions and width of the accessway remains the same.					
Visibility at the Vehicle Entrance	No change.					
Headroom Clearance	No change.					

Car Parking Modules	
Regular Car Spaces	No change.
Accessible Parking Space	Not dimensioned on the drawings. The applicant is to confirm the number of accessible parking spaces to be provided for the development. The information on the architectural drawings and landscape plans do not match-up.
Aisles	No change.
Column Depths and Setbacks	No change.
Clearances to Walls	No change.
Gradients	
Ramp Grade for First 5.0 metres inside Property	No change.
Ramp Grades and Changes of Grade	No change.
Other	
Motorcycle Spaces	Not dimensioned on the drawings.

Design Items to be Addressed

Item	Details
Accessible Parking Space	The applicant is to dimension and confirm the number of accessible parking spaces to be provided for the development.
Motorcycle Parking	To be dimensioned on the drawings.

ENGINEERING CONDITIONS

Road Asset Protection

Any damaged roads, footpaths and other road related infrastructure adjacent to the development site as a result of the construction works, including trenching and excavation for utility service connections, must be reconstructed to Council's satisfaction and at the developer's expense.

Construction Management Plan

A Construction Management Plan must be prepared and submitted to Council. The Plan must be approved by Council prior to the commencement of works. A detailed dilapidation report should detail and document the existing and post construction conditions of surrounding road infrastructure and adjoining private properties.

Impact of Assets on Proposed Development

- Any services poles, structures or pits that interfere with the proposal must be adjusted, removed or relocated at the owner's expense after seeking approval from the relevant authority.
- Areas must be provided inside the property line and adjacent to the footpath to accommodate
 pits and meters. No private pits, boundary traps, valves or meters on Council property will
 be accepted.

ADDITIONAL ENGINEERING ADVICE FOR THE APPLICANT

Item	Details
Legal Point of Discharge	The applicant must apply for a Legal Point of Discharge under Regulation 133 – Stormwater Drainage of the <i>Building Regulations</i> 2018 from Yarra Building Services unit. Any storm water drainage within the property must be provided and be connected to the nearest Council pit of adequate depth and capacity (legal point of discharge), or to Council's satisfaction under Section 200 of the <i>Local Government Act</i> 1989 and Regulation 133.
Tree Protection	The applicant is to liaise with Council's Open Space unit regarding the protection of the street trees along the property's Trenerry Crescent frontage.

Strategic Transport

Under the provisions of Clause 52.34-3 of the Yarra Planning Scheme, the development's bicycle parking requirements are as follows:

Proposed Use	· I Statiliory Par		No. of Spaces Required	No. of Spaces Allocated
Office 1,243sqm		1 employee space to each 300 sqm of net floor area if the net floor area exceeds 1000 sqm	4 employee spaces	
		1 visitor space to each 1000 sqm of net floor area if the net floor area exceeds 1000 sqm	1 visitor spaces	
Diamete Deskie	- O T	-1	4 employee spaces	12 employee spaces
Bicycle Parkin	g Spaces Fot	ai	1 visitor spaces	6 visitor spaces
Showers / Change rooms an		1 to the first 5 employee spaces and 1 to each additional 10 employee spaces		0 showers / change rooms

Adequacy of visitor spaces:

- 6 visitor spaces are proposed, which exceeds Council's best-practice rate¹ recommendation of 2 spaces and is supported.
- The visitor spaces are provided within the property boundary at the loading area / entry, adjacent to a disabled parking bay.
- Visitor spaces are provided as 3 horizontal at-grade bike hoops and appear to meet access and clearance requirements of AS2890.3.

Adequacy of employee spaces

¹ Category 6 of the Built Environment Sustainability Scorecard (BESS) recommends 1 visitor space to each 500sqm of office floor space.

Number of spaces

12 employee spaces are proposed in addition to the existing 24 employee bicycle spaces, providing a total of 36 employee spaces. Provision of 12 employee spaces meets Council's best practice rate² recommendation for the extension of 1,243sqm and is acceptable.

It is noted that Council's best practice rate recommends 64 employee spaces for the total office area of 6,363sqm. It is recommended that the applicant consider increasing the number of employee bicycle spaces to provide the best practice recommendation for the overall development to support staff to cycle to work.

Design and location of employee spaces and facilities

The following comments are provided in relation to the location and design of employee bike parking:

- All employee spaces are provided within a secure facility at basement level 1, with access via the vehicle entrance at Trenerry Crescent.
- 10 employee spaces are provided as horizontal at-grade spaces, which satisfies the AS2890.3 requirement for at least 20% of bicycle storage spaces to be provided as horizontal at ground-level spaces.
- The layout of bicycle spaces appears to comply with access and clearance requirements of AS2890.3
- No additional shower / change rooms are provided. Six existing shower / change rooms are
 provided for employees in an end of trip facilities area within close proximity to the bicycle
 storage area. The existing provision of shower / change rooms is considered sufficient,
 however it is recommended that the number of lockers is increased as per Council's best
 practice recommendation of 1 locker per employee bicycle space.

Electric Vehicles

Council's BESS guidelines encourage the use of fuel efficient and electric vehicles (EV). The addition of EV charging points within basement level 1 is supported. To allow for easy future provision for electric vehicle charging throughout the car park, it is recommended that car parking areas should be electrically wired to be 'EV ready' to enable future installation of EV charging.

Green Travel Plan

Given the development has a total non-residential floor area of more than 1,000sqm, pursuant to Clause 22.17-4 a Green Travel Plan (GTP) must be provided. The following information should be included:

- (a) Description of the location in the context of alternative modes of transport;
- (b) Employee welcome packs (e.g. provision of Myki/transport ticketing);
- (c) Sustainable transport goals linked to measurable targets, performance indicators and monitoring timeframes;
- (d) A designated 'manager' or 'champion' responsible for co-ordination and implementation;
- (e) Details of bicycle parking and bicycle routes;
- (f) Details of Green Travel funding and management responsibilities;
- (g) The types of bicycle storage devices proposed to be used for employee and visitor spaces (i.e. hanging or floor mounted spaces);
- (h) Security arrangements to access the employee bicycle storage spaces;
- (i) Signage and wayfinding information for bicycle facilities and pedestrians pursuant to Australian Standard AS2890.3; and
- (j) Provisions for the GTP to be updated not less than every five years.

² Category 6 of the SDAPP offers the following for best-practice guidance for employee office rates: 'Non-residential buildings should provide spaces for at least 10% of building occupants.' Assuming a floor-space occupancy of 1 staff member to 10sqm (which is the maximum rate allowed under the National Construction Code for fire safety), providing bicycle spaces for 10% of occupants results in a rate of 1 space per 100sqm of floor area

RECOMMENDATION

- (a) Increase the number of employee bicycle spaces to provide the best practice recommendation for the overall development to support staff to cycle to work;
- (b) The number of lockers is increased as per Council's best practice recommendation of 1 locker per employee bicycle space;
- (c) Car parking areas should be electrically wired to be 'EV ready' to enable future installation of EV charging.
- (d) A Green Travel Plan provided to include the following:
 - i. Description of the location in the context of alternative modes of transport;
 - ii. Employee welcome packs (e.g. provision of Myki/transport ticketing);
 - Sustainable transport goals linked to measurable targets, performance indicators and monitoring timeframes;
 - iv. A designated 'manager' or 'champion' responsible for co-ordination and implementation;
 - v. Details of bicycle parking and bicycle routes;
 - vi. Details of Green Travel funding and management responsibilities;
 - vii. The types of bicycle storage devices proposed to be used for employee and visitor spaces (i.e. hanging or floor mounted spaces);
- viii. Security arrangements to access the employee bicycle storage spaces;
- Signage and wayfinding information for bicycle facilities and pedestrians pursuant to Australian Standard AS2890.3; and
- x. Provisions for the GTP to be updated not less than every five years.