Attention: Jamie Stewart<br>Project Director

Dear Jamie,

## Re: 22-32 Junction St, Forest Lodge Flood Assessment

As per WMAwater's previous correspondence the proponent seeks to develop the above referenced site. Since WMAwater's last report the design has been modified, with the items relevant flood affectation being the proposed raising of the open car parking space to the $5 \%$ AEP level.

This report discusses the specific nature of the flooding the site is subject to and how the proposed development can be carried out in such a way that flood risk is not exacerbated. Further the potential for the works to impact on flood levels is considered.

## Background

WMAwater recently completed the Johnstons Creek Catchment Flood Study (2012) and Johnstons Creek Catchment Floodplain Risk Management Study and Draft Plan (2014). The description of results we supply herein is based on these studies as well as additional runs carried out specifically for the work reported upon herein.

## Existing Flood Behaviour

Referring to Figure 1, the total catchment area contributing to Larkin Street depression is approximately 79 hectares. Four major flow paths discharge to the depression as per the list below (also refer to Figure $2)$ :

1. The bulk of the flows originate from the University of Sydney Camperdown campus which either enters the Sydney Water trunk drain (Orphan School Creek Branch) or as overland flow (once the trunk drain is at capacity) crossing Parramatta Rd and flowing onto Larkin St;
2. Flow path originating from Arundel St/Sparkes St through a drainage reserve;
3. Flow path along St Johns Rd; and
4. Flow path originating from Bridge Rd which enters Junction St and discharges to this low point. Note it is this flow path that is the second mechanism of albeit minor overland flow flooding that impacts the subject site.

The Sydney Water trunk drain that traverses the site is full in the $20 \%$ AEP. Consequently for the $1 \%$ AEP event, very limited portions of the site experience significant inundation depths (> 2 m ) albeit with low velocity as floodwaters accumulate behind Pyrmont Bridge Road (which acts as an embankment).

## Flood Depths, Levels and Rates of Rise

Table 1 provides the peak flood levels and depths for the 5\% AEP, 1\% AEP flood and PMF events for the subject site at rear (to the west). The locations where the flood levels and depths are sampled is indicated in Figure 2.

Table 1: Peak Flood Levels and Depths for 22-32 Junction St, Forest Lodge (Site Rear)

|  | Larkin St Depression <br> (point 2 in Figure 2) |  |
| :---: | :---: | :---: |
| Event | Peak Flood Level <br> (mAHD) | Peak Flood Depth <br> $(\mathrm{m})$ |
| 5\% AEP | 13.1 | $3.5^{1}$ |
| 1\% AEP | 13.9 | 4.3 |
| PMF | 18.5 | 8.9 |

Rates of rise are $\sim 20 \mathrm{~mm}$ per minute for the $1 \%$ AEP event and four times this for the Probable Maximum Flood event (which is ~ 1,000-10,000 times less likely than the $1 \%$ AEP event). The significance of such limited rates of rise are that people have ample time to seek higher flood free ground.

## Flood Planning Level Requirements

In regard to the proposed open car park level requirements are outlined in City of Sydney's Draft Interim Floodplain Management Policy (2013). These are that the open car park must be at the 5\% AEP flood level at a minimum. That is, as per Table 1 above, the car park must be at the level of 13.1 mAHD (or more).

Note that it is also a requirement of the policy that a registered engineer must certify that any proposed development on site must be able to withstand forces applied to it by floodwaters (inclusive of debris and buoyancy).

## Flood Risk

Previous correspondence from WMAwater has discussed the flood risk associated with residential development on the site. The focus herein is on the proposed open car park.

Clearly an issue is that during a flood event threatening inundation of the car park, car owners may seek to access the car park and remove vehicles. The following elements of the proposed works and specific local flood characteristics tend to mitigate potential flood risk:

1. The hazard of floodwaters is low. Modelled flow velocity at the location of the proposed car park is near zero. This is due to the fact that floodwaters are not flowing through the site but rather building up behind Pyrmont Bridge Road. As such hazard (the velocity depth product) of flood waters in the $1 \%$ AEP is low as per the NSW Floodplain Development Manual (NSW, 2005);
2. The rate of rise of flood waters facilitates evacuation. During a $1 \%$ AEP event the time for floodwaters to reach a depth of 0.3 m is slightly less than 15 minutes. As reported above rate of rise is $\sim 20 \mathrm{~mm}$ per minute. Given the widest point of the car park to the west (from the high side at Junction St) is 40 m , ample time exists for a person to experience some level of flooding and then walk to the fire escapes facing Junction St and access higher ground; and finally
3. Higher ground is readily accessible. The site fortunately includes higher ground on the eastern side (Junction St). From both ends of the site (north and south) as well as via several fire escape stairs that lead to Junction St, those pedestrians exposed to flooding have the ability to access safe higher flood free ground.

## Flood Impacts

To minimise flood impact the car park will be built at the $5 \%$ AEP level with a void retained underneath. As such the flood storage volume lost in the $1 \%$ AEP event is limited to the volume of the slab and supporting piers. Given a slab of 0.25 m and a calculated area of $\sim 2,400 \mathrm{~m}^{2}$ the volume lost is $\sim 600 \mathrm{~m}^{3}$. It is estimated that this is less than $1 \%$ of total runoff for the $1 \%$ AEP event. As such it may be presumed that the flood level impact of the slab is minimal and in the writer's opinion modelling is not required to quantify the impact.

[^0]
## Summary

Previous correspondence from WMAwater described flood affectation of the proposed development site and required levels for proposed development.

The work herein focuses on the open car park proposed to be built at the $5 \%$ AEP level as per Council requirements.

An assessment of flood behaviour indicates that the floodwaters are slow rising and low hazard. Further means of egress and higher flood free ground are readily accessible. Together these factors tend to minimise any flood risk associated with the proposed car park facility.

Further the potential for the car park to impact on $1 \%$ AEP flood levels is considered. Given that the car park is to be built on a slab with void retained underneath, and given the limited volume of the construction in the $1 \%$ AEP flood extent, it is demonstrated that any impacts will be trivial.

Yours Sincerely,
WMAwater


## Steve Gray

DIRECTOR

## Attachments

Figure 1: Contributing Catchment
Figure 2: Peak Flood Depth and Level - Existing Conditions - 1\% AEP Design Flood Event


From:
Sent:
To:
Cc:
Subject:

## Jonathon Carle

Wednesday, 16 September 2015 12:50 PM
BCraig@jbaurban.com.au
Benjamin Pechey
RE: Junction Street Planning Proposal

Hi Ben

We've reviewed the revised scheme. We'd like to meet with you again to discuss flooding, overshadowing and next steps.

We'd also appreciate if you could provide further information about the shadow impact on the apartments at 1-3 Larkin St. In particular, we'd appreciate if could provide two tables as follows:

1. One table indicating how much sunlight each apartment currently receives, in minutes; and
2. A second table indicating how much sunlight each apartment would receive if the revised scheme is built.

The tables' rows and columns should correspond to the apartment buildings' layout, that is, there should be one table row for each level of the building etc.

It would be useful if you could provide the tables at least a couple of days before the meeting. Could you suggest some options for a meeting date please?

Please call if you need any more information about the tables.

Thanks
Jonathon
Jonathon Carle
Senior Specialist Planner
Strategic Planning \& Urban Design

Telephone: 92467736
cityofsydney.nsw.gov.au

From: Ben Craig [mailto:BCraig@jbaurban.com.au]
Sent: Monday, 31 August 2015 4:34 PM
To: Jonathon Carle [jcarle@cityofsydney.nsw.gov.au](mailto:jcarle@cityofsydney.nsw.gov.au); Benjamin Pechey [bpechey@cityofsydney.nsw.gov.au](mailto:bpechey@cityofsydney.nsw.gov.au)
Cc: jamie.stewart@fitzpatrickproperty.com.au; timb@fdcbuilding.com.au; Guy Lake (glake@batessmart.com)
[glake@batessmart.com](mailto:glake@batessmart.com); Daniel Howard [DHoward@jbaurban.com.au](mailto:DHoward@jbaurban.com.au)
Subject: RE: TRIM: Junction Street Planning Proposal - Flooding Response

Hi Jonathon,

Thanks for getting back to me. Any chance the review of the flooding material can happen quicker than 4 weeks' time?

From:
Sent:
To:
Cc:
Subject:
Attachments:

HP TRIM Record Number:

## Jonathon Carle

Monday, 12 October 2015 4:18 PM
Ben Craig
Benjamin Pechey; Jesse McNicoll
TRIM: 2-32 Junction St, Forest Lodge - 9 October meeting
CSA059443 Larkin Street Camperdown (1-3) Approved Plans(2).TIF
2015/622179

Hi Ben

Thanks for your time to meet with us again last Friday.

Confirming our advice, the City generally considers the revised flooding approach to be acceptable with some minor issues able to be addressed through a site specific DCP. Minor issues include the southern evacuation route and ensuring structural integrity if vehicles float during a flooding event.

The development will need to comply with section 3.1.4(3)(a) of Sydney DCP relating to overshadowing of the neighbouring park and Objectives 3B-2 and 4A-1 of the Apartment Design Guide relating to overshadowing of the existing apartments at 1-3 Larkin St.

We understand you'll provide advice about the methodology used for the overshadowing analysis of 1-3 Larkin St. This includes whether it complies with the 1 sqm requirement in Objective 4A-1 of the ADG. I've attached floorplans for 1-3 Larkin St.

We understand you'll revise the scheme to address the DCP controls relating to overshadowing of the neighbouring park. Following strategic open space analysis undertaken this year by the City, an opportunity to address overshadowing of the park and ensure compliance with the DCP could be through dedication of a regular shaped parcel of land to enable the existing neighbouring park to be enlarged. Note the City does not support dedication of an irregular-shaped parcel as this would reduce the usability of the open space. Any enlarged park area would also need to comply with the overshadowing controls in the DCP.

Subject to a regular-shaped parcel being dedicated to the City's satisfaction, the City is willing to consider alternative options for the existing commercial building as well as offsetting the dedication against section 94 contributions.

## Regards

Jonathon

## Jonathon Carle

Senior Specialist Planner
Strategic Planning \& Urban Design

## CITYOFSYNEY: ${ }^{2}$

Sydney2030/Green/Global Connected

Telephone: 92467736
cityofsydney.nsw.gov.au

## From: Ben Craig [mailto:BCraig@jbaurban.com.au]

Sent: Thursday, 8 October 2015 9:45 AM
To: Benjamin Pechey [bpechey@cityofsydney.nsw.gov.au](mailto:bpechey@cityofsydney.nsw.gov.au)

## From:

Sent:
To:
Cc:
Subject:
Attachments:

## Follow Up Flag: <br> Flag Status:

Ben Craig [BCraig@jbaurban.com.au](mailto:BCraig@jbaurban.com.au)
Friday, 6 November 2015 12:08 PM
Benjamin Pechey; Jonathon Carle
jamie.stewart@fitzpatrickproperty.com.au; Guy Lake; jfraser@batessmart.com Junction Street, Forest Lodge
A08.001[4].pdf; 151103_CoS Requested Shadow Study_small.pdf; 151103_Project Data_Forest Lodge_Areas.pdf; A01.000[4].pdf

Follow up
Flagged

Dear Ben / Jonathan,

Further to our most recent meeting on the Junction Street planning proposal the further work that you requested has now been completed. In particular further shadow analysis has been carried out on the impacts on the adjacent building and the parkland, while the building envelopes at the sites southern have also been redesigned. I discuss each of these below.

## Shadow Impacts on Larkin Street Properties

The updated shadow analysis has been carried out taking into consideration the ADG and Council the 1sqm requirement. Bates Smart have sourced the apartment layouts for the Larkin Street building and have carried out an analysis on the current design which confirms that $72.5 \%$ of the apartments presently receive a minimum of 2 hours of solar access between 9am and 3pm in mid-winter. Under the proposed massing it shows that the building will still achieve $70 \%$ solar access. Three apartments on Level 2 of the building will have their solar access reduced to below 2 hours of sunlight but importantly the existing building will still comply with the relevant controls. Bates Smart analysis also demonstrates that despite having their solar access reduced, the three apartments on Level 2 of the building will still meet the Design Guideline requirement in the ADG for a minimum of 1 m 2 of direct sunlight measured at 1 m above the ground for 15 minutes (i.e. they still achieve 45 minutes in this regard).

Bates Smart have then analysed the shadow impacts of the revised proposal on the park, taking into account the amended design at the site' southern end and looking at two scenarios, these being the park as it currently stands and a slightly expanded park that involves a contribution of land.

The shadow analysis of the park shows that, under the revised scheme, the existing park will receive 255 minutes of sunlight to $50 \%$ or more of the park area during mid-winter, being 15 minutes more than the required 240 minutes. If the park is expanded to include the additional land then the outcome is slightly different with the park receiving 175 minutes of solar access. The reason being is that the additional land being provided is adjacent to the proposal and is subject to overshadowing.

At the end of the day this will be Council's call as we are willing to provide the land to expand the park however the resultant larger park won't achieve 240 minutes to $50 \%$ of the area during mid-winter. Whilst this is the case it will still be a larger park and in our opinion will still provide a significant public benefit to the local community by improving the size and useability of that space. Obviously also outside of mid-winter the park will still receive plenty of sunlight.

Alternatively if Council is insistent that the park must comply with the controls then we can also easily retain that land within the site and use it as communal space for the development. This would provide an outcome that technically satisfies Council's requirements, but in my opinion isn't necessarily a better outcome for the area and the community.

I do also want to note that if Council is of a mind to pursue the option of a land dedication to the park then the client would like to ensure that this dedication is taken into account in any public benefit and contributions negotiations.

With regard to the revised design, we believe that the massing provides for an improved outcome, not only in terms of the relationship with the park, but also the frontage to Junction Street. The building envelopes have been designed to provide a consistent frontage to the street with a ground level component and then recessed and stepped upper levels.
The inclusion of the new east west building at the site's southern end also acts as a mirroring feature to the existing commercial building and we believe also responds well to the sites location at the end of St Johns Road.

Overall I think this information clearly demonstrates that the an appropriate design outcome can be achieved on site.

I trust this information is what you require at this stage, however should you have any queries or wish to discuss please don't hesitate to contact me.

Kind Regards

Ben

Ben Craig Associate
Office +61 299566962 Direct +61 294094953 Mobile +61 416917365
jbaurban.com.au - Level 7, 77 Berry Street, North Sydney (PO Box 375, North Sydney NSW 2059)

## JBA urban development services 国 $\mathbf{1}$

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Melbourne Victoria 3000 Australia


## www.batessmart.com

## NOMINATED NSW REGISTERED ARCHITECTS

Philip Vivian Reg. No. 6696 / Simon Swaney Reg. No. 7305 / Guy Lake Reg. No. 7119

## disclaimer

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purpose of providing information about potential
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Note: All area calculations are advisory only and all figures should be checked and Note: All area calculations are
verified by a licensed surveyor.




The SEPP-65 solar access compliance criteria are tested with parametric software (Rhino/Grasshopper). The technique is ray-tracing, where a grid of
 Each ray is then analysed to determine whether it intersects with any geometry,
either the target building at 1-3 Larkin Street, or the proposed massing. In this way, the method includes the effects of self-shadowing and new shadowing from the proposed massing.

All calculations in this document are taken at the winter solstice (21st June).

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Private open spaces receive a minimum of 2 hours direct
sunlight between 9am and 3pm.
Solar Access Plane is on the balcony line.


| Objective 4A-1 |
| :--- |
| $\begin{array}{l}\text { To optimise the number of apartments receiving sunlight to } \\ \text { habitable rooms, primary windows and private open space }\end{array}$ |
| Design criteria |
| 1. Living rooms and private open spaces of at least $70 \%$ |
| $\begin{array}{l}\text { of apartments in a building receive a minimum of } 2 \\ \text { hours direct sunlight between } 9 \text { am and } 3 \text { pm at mid } \\ \text { winter in the Sydney Metropolitan Area and in the } \\ \text { Newcastle and Wollongong local government areas }\end{array}$ |

Living rooms receive a minimum of 2 hours direct sunlight
between 9am and 3pm.
Solar Access Plane is on the glazing line.


## The Solar Access Plane is measured 1 m above the floor

evel in the living room.
A minimum of 1 square metre of direct sunlight on this
plane is required for 15 minutes.
Note that this is more stringent than the design criteria and
s required for a shorter interval ( 15 minutes rather than 2 hours).


PROPOSED MASSNG:
A setback on the western edge of the upper level and articulation of the building form on the north west corner provide solar access to Larkin street apartments

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## J9N|IITWOO 59-ddJS <br> (EXISTING CONDITION):

Total number of units: 102
Number of non-compliant units: 28
Number of non-compliant units: $\mathbf{2 8}$
(which do not satisfy both Design Criteria 1 and 2)
Living rooms and private open spaces of $72.5 \%$
of apartments receive a minimum of 2 hours direct sunlight between 9 am and 3 pm at mid-winter.


Design criterion 1B - Existing Condition


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## SEPP-65 COMPLLANCE <br> (PROPOSED MASSNGE):

Total number of units: 102
Number of non-compliant units: 31
(which do not satisfy both Design Criter
Number of non-compliant units: $\mathbf{3 1}$
(which do not satisfy both Design Criteria 1 and 2)
Living rooms and private open spaces of $70 \%$
of apartments receive a minimum of 2 hours direct sunlight between 9 am and 3 pm at mid-winter.


Design criterion 1B - Proposed Massing


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## DESIEN GUIDELINE <br> (EXISTING CONDITION):

Total number of units: 102
Number of non-compliant units: 28
(which do not satisfy the Design Guideline)
$72.5 \%$ of apartments receive a minimum of 15 minutes direct sunlight (measured 1 m above the living room floor level) between 9 am and 3 pm at mid-winter.

## 


Design Guideline - Existing Condition


$\pm$


Number of non-compliant units: 31
(which do not satisfy the Design Guideline)
$70 \%$ of apartments receive a minimum of sunlight (measured 1 m above the living room floor level)
between 9 am and 3 pm at mid-winter.

## Non-compliant apartments

Total number of units: 102

## (PROPOSED MASSNGG):

 minutes direct

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Design Guideline - Proposed Massing



OVERSHADOWING OF NEIGHBOURING PARK



Target $=240$ minutes


Section A-A




BATESSMART.

| From: | Jonathon Carle [jcarle@cityofsydney.nsw.gov.au](mailto:jcarle@cityofsydney.nsw.gov.au) |
| :--- | :--- |
| Sent: | Wednesday, 25 November 2015 4:14 PM |
| To: | Ben Craig |
| Cc: | Benjamin Pechey; Jesse McNicoll |
| Subject: | RE: Junction Street, Forest Lodge |

Hi Ben

Thank you for providing the additional shadow analysis and revised building footprints and envelopes.

Our advice is as follows:

1. Open space should enable a park of at least 1,500 sqm to be created consistent with the City's approach for neighbourhood parks.
2. The approximately 5 m high car park frontage will create a poor edge condition to the park. The proposal will need to allow for a landscape buffer of at least 2 m on the development site between the car park and the park.
3. We note your client is willing to provide land to expand the existing public park. Further details are needed on whether there will be a public benefit offer from your client for the dedication of land for new open space, though site links and any other public benefits and in particular how those public benefits are to be secured.
4. If the proposed FSR relies on high efficiency commercial floor space to achieve the proposed building envelopes, the City would secure that amount of commercial floor space in the planning controls.
5. Please also provide dwg envelope drawings and floor by floor Excel GFA calculations.

I look forward to your response. Please call if you've any questions.

Regards
Jonathon
92467736

From: Ben Craig [mailto:BCraig@jbaurban.com.au]
Sent: Friday, 6 November 2015 12:08 PM
To: Benjamin Pechey [bpechey@cityofsydney.nsw.gov.au](mailto:bpechey@cityofsydney.nsw.gov.au); Jonathon Carle [jcarle@cityofsydney.nsw.gov.au](mailto:jcarle@cityofsydney.nsw.gov.au)
Cc: jamie.stewart@fitzpatrickproperty.com.au; Guy Lake (glake@batessmart.com) [glake@batessmart.com](mailto:glake@batessmart.com);
jfraser@batessmart.com
Subject: Junction Street, Forest Lodge
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Shadow Impacts on Larkin Street Properties

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## Kind Regards

Ben

## Ben Craig Associate

Office +61 299566962 Direct +61 294094953 Mobile +61 416917365
jbaurban.com.au - Level 7, 77 Berry Street, North Sydney (PO Box 375, North Sydney NSW 2059)

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advice - strategic planning - town planning - urban design
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HP TRIM Record Number:

## Jonathon Carle

Monday, 12 October 2015 4:18 PM
Ben Craig
Benjamin Pechey; Jesse McNicoll
TRIM: 2-32 Junction St, Forest Lodge - 9 October meeting
CSA059443 Larkin Street Camperdown (1-3) Approved Plans(2).TIF
2015/622179

Hi Ben

Thanks for your time to meet with us again last Friday.

Confirming our advice, the City generally considers the revised flooding approach to be acceptable with some minor issues able to be addressed through a site specific DCP. Minor issues include the southern evacuation route and ensuring structural integrity if vehicles float during a flooding event.

The development will need to comply with section 3.1.4(3)(a) of Sydney DCP relating to overshadowing of the neighbouring park and Objectives 3B-2 and 4A-1 of the Apartment Design Guide relating to overshadowing of the existing apartments at 1-3 Larkin St.

We understand you'll provide advice about the methodology used for the overshadowing analysis of 1-3 Larkin St. This includes whether it complies with the 1 sqm requirement in Objective 4A-1 of the ADG. I've attached floorplans for 1-3 Larkin St.

We understand you'll revise the scheme to address the DCP controls relating to overshadowing of the neighbouring park. Following strategic open space analysis undertaken this year by the City, an opportunity to address overshadowing of the park and ensure compliance with the DCP could be through dedication of a regular shaped parcel of land to enable the existing neighbouring park to be enlarged. Note the City does not support dedication of an irregular-shaped parcel as this would reduce the usability of the open space. Any enlarged park area would also need to comply with the overshadowing controls in the DCP.

Subject to a regular-shaped parcel being dedicated to the City's satisfaction, the City is willing to consider alternative options for the existing commercial building as well as offsetting the dedication against section 94 contributions.

## Regards

Jonathon

## Jonathon Carle

Senior Specialist Planner
Strategic Planning \& Urban Design

## CITYOESYDNEY당

Sydney2030/Green Global Connected

Telephone: 92467736
cityofsydney.nsw.gov.au

## From: Ben Craig [mailto:BCraig@jbaurban.com.au]

Sent: Thursday, 8 October 2015 9:45 AM
To: Benjamin Pechey [bpechey@cityofsydney.nsw.gov.au](mailto:bpechey@cityofsydney.nsw.gov.au)

Cc: Jonathon Carle [jcarle@cityofsydney.nsw.gov.au](mailto:jcarle@cityofsydney.nsw.gov.au); jamie.stewart@fitzpatrickproperty.com.au; Guy Lake (glake@batessmart.com) [glake@batessmart.com](mailto:glake@batessmart.com); jfraser@batessmart.com
Subject: FW: s11792_Forest Lodge - Additional Information

Morning Ben / Jon,

Re Junction Street please find attached further information on shadows in advance of tomorrow's meeting.

Look forward to seeing you tomorrow to discuss.

Cheers

Ben Craig Associate
Office +61 299566962 Direct +61 294094953 Mobile +61 416917365
jbaurban.com.au - Level 7, 77 Berry Street, North Sydney (PO Box 375, North Sydney NSW 2059)

# JBA urban development services $\boldsymbol{y}$ 国 $\mathbf{f}$ 

JBA can assist with communications - design competitions - property economics \& demographics - research \& advice - strategic planning - town planning - urban design

[^1]From: Jason Fraser [mailto:jfraser@batessmart.com]
Sent: Thursday, 8 October 2015 8:30 AM
To: Jamie Stewart; Ben Craig; Guy Lake
Cc: Andrew Willes
Subject: s11792_Forest Lodge - Additional Information

## All

Please see attached. Let me know if there are any further comments.
Regards
Jason

## Jason Fraser

Associate
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COLLINS HOUSE,466 COLLINS STREET, MELBOURNE


| From: | Ben Craig [BCraig@jbaurban.com.au](mailto:BCraig@jbaurban.com.au) |
| :--- | :--- |
| Sent: | Friday, 27 November 2015 1:48 PM |
| To: | Jonathon Carle; Benjamin Pechey |
| Cc: | Guy Lake; jfraser@batessmart.com; jamie.stewart@fitzpatrickproperty.com.au |
| Subject: | Junction Street, Forest Lodge |
| Attachments: | 151126_Plan with Lscape Areas.pdf; Option 3 Massing Study_Oct.dwg |

Hi Jonathan,

Please find below responses to your queries.

1. The park at present is 1055 sqm. The total area of the proposed extension is 471 sqm . The total combined area of the park would therefore be $1,526 \mathrm{sqm}$ which is in excess of the 1,500 sqm requirement. A 2 m landscape buffer along the frontage tot eh car park can be provided, however if it is then the dedication of parkland potentially 393 sqm , which takes the combined area of the park down to $1,448 \mathrm{sqm}$. We don't have an issue with this but it is ultimately Council's decision what you want to do with the park and the landscape buffer. As illustrated in our documentation. There is an option with or without the land dedication for the park.
2. With regard to the landscape buffer it is worth pointing out that this is not necessarily the only option to screen the park, the car park interface could be dealt with very effectively through treatment of the façade. Some great examples of where this has been done elsewhere include Brisbane Domestic Airport and the Wintergarden on Brisbane Mall.
3. These matters could be dealt with through a letter to Council that outlines the principles/terms of a Public Benefit Offer. It is however important to lock down exactly what is agreed in the first instance before any in principle offer is drafted.
4. Currently GEA of the building is 1146 sqm. The commercial GEA/GFA ratio is $84.7 \%$ which results in 981 sqm of GFA. If we use the residential GEA/GFA ratio this would result in $1146 \times 0.75=860 \mathrm{sqm}$ GFA and a loss of 121sqm GFA. This would reduce FSR from 1.77:1 to 1.75:1.
5. Table with floor by floor below and cad file attached.

## S11792_2-22 JUNCTION STREET, FOREST LODGE

## Feasibility Analysis

PROPOSED OPTION 2 Building $C$ with extra storey and setbacks

| Areas | Areas(sqm) |
| :--- | ---: |
| Site Area | $\mathbf{4 , 8 2 4}$ |
| FSR | $\mathbf{1 . 7 7}$ |
| Total GEA | 10,528 |
| Total GBA | 9,482 |
| Total GFA | $\mathbf{8 , 5 5 0}$ |
| Total NSA | 7,963 |


| Residential Mix Combined |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | GEA | GBA | GFA | NSA | Studio <br> 45sqm | $\begin{gathered} 1 \text { bed } \\ 50 \text { sqm } \end{gathered}$ | $\begin{array}{r} 2 \mathrm{bed} \\ 72 \mathrm{sqm} \end{array}$ | $\begin{array}{r} 3 \mathrm{bed} \\ 95 \mathrm{sqm} \end{array}$ |
| Ground | 2257 | 1940 | 1797 | 1561 |  | 4 | 11 | 3 |


| Level 01 | 2257 | 1983 | 1812 | 1696 | 9 | 14 | 0 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Level 02 | 2257 | 1983 | 1812 | 1696 | 9 | 14 | 0 |
| Level 03 | 1819 | 1744 | 1534 | 1448 | 9 | 7 | 3 |
| Level 04 | 780 | 674 | 614 | 581 |  | 3 | 5 |
|  | 9370 | 8324 | 7569 | 6982 | 0 | 34 | 51 |


| Parking |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  | Commercial / m2 | Visitors | Studio | 1bed | 2bed |
| Parking Rate / DCP Category C | 175 | 0.1 | 0.4 | 0.5 | 1.0 | 1.2 |
| Apartments / Area | 981 | 91 | 0 | 34 | 51 | 6 |
| Total Permissable | $\mathbf{6}$ | $\mathbf{9}$ | $\mathbf{0}$ | $\mathbf{1 7}$ | $\mathbf{5 1}$ | $\mathbf{7}$ |
| Total Provided |  |  |  |  |  |  |


| Commercial Total |  |  |  |  |
| :--- | ---: | ---: | ---: | :--- |
|  | GEA | GBA | GFA | NSA |
| Ground | 386 | 386 | 327 | 327 |
| Level 01 | 386 | 386 | 327 | 327 |
| Level 02 | 386 | 386 | 327 | 327 |
|  | 1158 | 1158 | 981 | 981 |

I hope this helps and happy to discuss.

Cheers
Ben Craig Associate
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jbaurban.com.au - Level 7, 77 Berry Street, North Sydney (PO Box 375, North Sydney NSW 2059)

# JBA urban development services in $\mathbf{f}$ 

JBA can assist with communications - design competitions - property economics \& demographics - research \& advice - strategic planning - town planning - urban design

[^2]

14253
$9^{\text {th }}$ December 2014

Mr Graham Jahn
City of Sydney Council
GPO Box 1591
SYDNEY NSW 2000

Attention: Jonathan Carle

## Dear Graham

## DRAFT Planning Agreement Offer

2-32 Junction Street, forest lodge

On 24 December 2013, a Planning Proposal was lodged by JBA on behalf of Fitzpatrick Investments Pty Ltd seeking to amend the height and floor space ratio (FSR) controls as they relate to the site under the Sydney Local Environmental Plan 2012. Specifically the Planning Proposal is seeking the following:

- The floor space ratio that applies to the site is proposed to be increased from 1:1 to 1.75:1.
- The maximum building height that applies to the site is proposed to be increased from 12 m to 22 m , with a 12 m maximum building height strip retained fronting Junction Street with a depth of 7 m from the boundary.

The Planning Proposal was accompanied by an Indicative Master Plan (Figure 1) prepared by Bates Smart Architects that illustrated how the site could be redeveloped in accordance with the proposed controls.

Investments


Figure 1: Indicative Master Plan - Site layout

During the design process opportunities have been identified for delivering potential public benefits through enlargement of the existing public park and the provision of new through site links. As part of the proposed LEP Amendments Fitzpatrick wish to offer to enter into a Planning Agreement pursuant to Clause 93F of the Environmental Planning and Assessment Act 1979, with the City of Sydney Council (the Council) in relation to the proposed amendments to the Sydney LEP 2012 as they relate to land at 2-32 Junction Street, Forest Lodge. This offer is based on the following terms:

1. Enlargement of Pubic Park - As shown in the material prepared by Bates Smart Architects, future redevelopment of the site in accordance with the Indicative Master Plan provides an opportunity to increase the size of Larkin Street Park. This has been previously discussed with Council who have highlighted a potential desire for a 2 m wide landscape strip along the sites south-western boundary to screen the car park level from Larkin Street Park. With this in mind Fitzpatrick Investments Pty Ltd are willing to offer Council the dedication of land under two alternative scenarios, these being:

Scenario 1 - Dedication of $471 \mathrm{~m}^{2}$ of land to increase the size of Larkin Street Park from $1,055 \mathrm{~m}^{2}$ to $1,526 \mathrm{~m}^{2}$. Under this scenario the two metre wide landscape strip is to be provided within the enlarged park area, with the future building on the subject site to be built to site boundary along this edge.

Scenario 2 - Dedication of $393 m^{2}$ of land to increase the size of Larkin Street Park from $1,055 \mathrm{~m}^{2}$ to $1,448 \mathrm{~m}^{2}$. Under this scenario the two metre wide landscape strip is to be provided within the site area resulting in a slightly smaller park and the future building being setback from the south half of the western boundary.

Importantly it is noted that under both scenarios the western building façade facing Larkin Stret Park will also be architectural designed to minimise a visual impacts of the above ground car park level and in this regard will provide a high quality design outcome for the site and the park interface. Such a requirement can be written into any site specific DCP.
2. Southern Pedestrian Link - Dedication of $144 m^{2}$ of land to create a new 6 m wide publicly accessible link along the site's southern boundary, allowing pedestrian access from St Johns Road through to Larkin Street Park.
3. Central Pedestrian Link - Creation of a new east-west pedestrian connection through the centre of the site connecting Junction Street with Larkin Street. This connection is to be achieved via the creation of a public access easement as part of the future development application. The area of this through site link is approximately 232 sqm.
4. Realignment of north-west boundary - The site's north-west boundary is to be realigned to create a more logical property boundary and road reserve. This realignment will be facilitated under a future development application for the site and if located 6 m from the proposed building alignment will result in a net benefit of 53 m 2 of land being dedicated to the public.

The proposed dedication public benefits outlined above will require a Voluntary Planning Agreement to secure the terms of this dedication. It is intended that should the LEP Amendment be gazetted, this offer will be consolidated and crystallised into a Voluntary Planning Agreement with the Council. The agreement will comply with the requirements of the Environmental Planning and Assessment Act and Regulations, and will contain mechanisms and timing of the proposed dedications. We trust the above is satisfactory, however should you have any queries about this matter then please do not hesitate to contact me on 99566962.

Yours faithfully
Fitzpatrick Investments Pty Ltd


Jamie Stewart
Development Director

Attention: Jonathan Carle

Dear Graham

## DRAFT Planning Agreement Offer <br> 2-32 Junction Street, forest lodge

On 24 December 2013, a Planning Proposal was lodged by JBA on behalf of Fitzpatrick Investments Pty Ltd seeking to amend the height and floor space ratio (FSR) controls as they relate to the site under the Sydney Local Environmental Plan 2012. Specifically the Planning Proposal is seeking the following:

- The floor space ratio that applies to the site is proposed to be increased from 1:1 to 1.75:1.
- The maximum building height that applies to the site is proposed to be increased from 12 m to 22 m , with a 12 m maximum building height strip retained fronting Junction Street with a depth of 7 m from the boundary.

The Planning Proposal was accompanied by an Indicative Master Plan prepared by Bates Smart Architects that illustrated how the site could be redeveloped in accordance with the proposed controls. Following discussions with the City of Sydney Council, further changes have been made to the design of the master plan, with the updated version accompanying this letter (refer attachment).

During the design process, opportunities have been identified for delivering potential public benefits through enlargement of Larkin Street Park and the provision of new through site links. As part of the proposed LEP Amendments, Fitzpatrick wish to offer to enter into a Planning Agreement pursuant to Clause 93F of the Environmental Planning and Assessment Act 1979, with the City of Sydney Council (the Council) in relation to the proposed amendments to the Sydney LEP 2012 as they relate to land at 2-32 Junction Street, Forest Lodge. This offer is based on the following terms:

1. Enlargement of Public Park - Larkin Street Park currently has an area of $1,053 \mathrm{~m}^{2}$ and Council have indicated their desire for the size of the park to be increased to a minimum $1,500 \mathrm{~m}^{2}$ if land is to be dedicated, with this in mind Fitzpatrick Investments Pty Ltd are willing to make the following offer to Council with regard to Larkin Street Park:

- Fitzpatrick Investments Pty Ltd will dedicate $452 \mathrm{~m}^{2}$ of land to increase the size of Larkin Street Park to $1,505 \mathrm{~m}^{2}$.
- Fitzpatrick Investments Pty Ltd will make a cash contribution to City of Sydney Council of $\$ 1,000 / \mathrm{m}^{2}$ of parkland for the future embellishment and improvement of the increased Larkin Street Park. Based on an increased land area of $1,505 \mathrm{~m}^{2}$ the total cash contribution is calculated to be $\$ 1,505,000$.
- A minor alteration to the eastern boundary of Larkin Street Park is to occur (as shown on the attached Master Plan), resulting in $3 \mathrm{~m}^{2}$ of existing parkland being excised and amalgamated with land that is the subject of this planning proposal.
- The transfer of land between the site and Larkin Street Park is to be facilitated via a subdivision plan that will form part of any subsequent detailed development application for the site.

2. Southern Pedestrian Link - Dedication of $159 \mathrm{~m}^{2}$ of land to create a new 6 m wide publicly accessible link along the site's southern boundary, allowing pedestrian access from St Johns Road through to Larkin Street Park. This link is to support disabled access between Junction Street and Larkin Street, with the detailed design to be determined as part of any subsequent DA process.
3. Central Pedestrian Link - Creation of a new east-west pedestrian connection through the centre of the site connecting Junction Street with Larkin Street. This connection is to be achieved via the creation of a public access easement as part of the future development application. The area of this through site link is approximately $139 \mathrm{~m}^{2}$.

The proposed dedication public benefits outlined above will require a Voluntary Planning Agreement to secure the terms of this dedication. It is intended that should the LEP Amendment be gazetted, this offer will be consolidated and crystallised into a Voluntary Planning Agreement with the Council. The agreement will comply with the requirements of the Environmental Planning and Assessment Act and Regulations, and will contain mechanisms and timing of the proposed dedications. We trust the above is satisfactory; however should you have any queries about this matter then please do not hesitate to contact me on 81175105 .

Yours faithfully
Fitzpatrick Investments Pty Ltd


Jamie Stewart
Development Director


12 April 2016
Our Ref: X000094
File No: 2016/133738
Benjamin Craig
JBA Pty Ltd, PO Box 159
North Sydney NSW 2059
BCraig@jbaurban.com.au

Dear Benjamin,

## PLANNING PROPOSAL REQUEST - 2-32 JUNCTION STREET, FOREST LODGE

I refer to your submission of a revised planning proposal request to amend the maximum height and floor space ratio controls under Sydney LEP 2012 and draft planning agreement offer for 2-32 Junction Street, Forest Lodge.

The City's previous correspondence from 28 November 2013 and 16 October 2014 stated that a maximum floor space ratio of $1.5: 1$ would be appropriate for the site. The correspondence also identified the need to comply with SEPP 65, the Residential Flat Design Code (since replaced by the Apartment Design Guide) and Sydney Development Control Plan 2012. Particular concerns raised included building separation, boundary setbacks, overshadowing of surrounding development, retention of the former warehouse and envelope efficiency requirements.

A planning proposal request submitted on 4 March 2015 sought to increase the maximum FSR from 1:1 to 1.75:1 and increase the maximum height from 12 metres to approximately 25 metres. The City's correspondence of 16 April 2015 stated any proposed increase in the FSR is to be based on 75 per cent building envelope efficiency and that the planning proposal request is to comply with the Residential Flat Design Code's requirements for communal open space and deep soil. Subsequent discussions focused on flooding issues, overshadowing impacts to the apartments at 1-3 Larkin Street and Larkin Street Reserve and the impact of the proposed above ground car park on the public domain.

A revised scheme including overshadowing analysis was submitted on 6 November 2015. The proposed scheme involves retaining the existing commercial warehouse building and constructing three new 4-6 storey residential apartment buildings with an envelope efficiency of $75 \%$. It also includes a new above ground under croft car park with the basement slab elevated to the 5\% Annual Exceedance Probability to address flooding.

A draft planning agreement offer dated 25 February 2016 includes two new pedestrian links and $452 \mathrm{~m}^{2}$ of land dedication to extend Larkin Street Reserve. It also includes a $\$ 1,000 / \mathrm{m}^{2}$ cash contribution to integrate and embellish the existing reserve with the dedicated land. The $452 \mathrm{~m}^{2}$ of land offered for dedication includes part of the central through site link and part of the irregular-shaped north-west boundary.

The City has reviewed the information provided. The City considers the information provided does not demonstrate that the impact of a proposed scheme with an FSR of 1.75:1 will be within acceptable limits. The City's reasons for this are outlined below. Consequently, the City's position of 2013 and 2014 remains that the maximum FSR achievable at the site given its constraints should not be more than 1.5:1. This represents a $50 \%$ increase to the current maximum allowable floor space. Amendments and additional information needed for the City to progress the planning proposal are outlined below.

## Setbacks and building separation

The proposed scheme does not comply with the following controls in the Apartment Design Guide:

- Part 3F, relating to minimum boundary setbacks necessary to achieve reasonable levels of external and internal visual privacy. This includes the proposed buildings A, $B$ and $D$;
- Part 2F, relating to minimum separation distances for buildings. This includes the proposed separation between Building B and the existing terrace at 34 Junction Street, to the north of the site, and Building D and the existing terrace at 256 St Johns Road and the existing apartment building at 2A Short Street, to the south of the site.

The proposal will need to be amended to ensure it complies with setbacks and building separation requirements in Part 2F and 3F of the Apartment Design Guide.

## Overshadowing of apartments at 1-3 Larkin Street

It is unclear whether the proposal's overshadowing impact on the adjoining apartments at 1-3 Larkin Street complies with Part 4A of the Apartment Design Guide.

Part 4A says living rooms of at least 70\% of apartments must receive a minimum of 2 hours of sunlight and no more than $15 \%$ of apartments can receive no sunlight. If more than $15 \%$ of apartments receive no direct sunlight, this proportion cannot be increased. For any sunlight to be counted, it must be at least $1 \mathrm{~m}^{2}$ in area on the vertical plane, be measured 1 metre above the floor level and be received for at least 15 minutes.

The overshadowing analysis provided indicates $70 \%$ of apartments will receive at least 2 hours of sunlight on the vertical plane, however, it does not say whether the sunlight is at least $1 \mathrm{~m}^{2}$ in area on the vertical plane, 1 metre above the floor level and received for at least 15 minutes.

The overshadowing analysis states there are currently more than $15 \%$ of units that receive no direct sunlight ( $27.5 \%$ ) and the proposal will increase that number of units. However, the analysis has been undertaken on the horizontal rather than vertical plane and therefore compliance cannot be determined.

For the planning proposal to progress, the overshadowing analysis will need to demonstrate the proposal can comply with the Apartment Design Guide, including Parts $3 B$ and 4A, using the methodology outlined above.

## Overshadowing of apartments at 2A Short Street

No information has been provided about overshadowing impacts on the existing apartments at 2A Short Street, to the south of the site. Consequently, it is not known whether the proposed envelope complies with overshadowing requirements in the Apartment Design Guide.

For the planning proposal to progress, an assessment of the proposed scheme's overshadowing impact at 2A Short Street and its compliance against the Apartment Design Guide will need to be provided.

Overshadowing impacts at 2A Short Street will need to comply with overshadowing requirements in the Apartment Design Guide. If it does not, the proposal will need to be amended.

## Building D impacts on Larkin Street Reserve

Building $D$ is considered to have an unacceptable impact on Larkin Street Reserve due to its height, scale, bulk, proximity and its carpark use. The sections provided do not correlate with the survey and do not show the building heights and walls along the Reserve and side boundaries accurately.

Building $D$ is proposed to be setback 2 metres from both the Reserve and land offered to extend the Reserve. Although necessary elevations and sections have not been provided, in some locations, Building D is estimated to be around 18 metres higher than the Reserve, including the car park which is estimated to be around 5 metres higher.

The bulk, scale and siting of Building D will dominate the Reserve and its extension and make it an undesirable place for recreation. The impacts are significant given the relatively small size of the extended reserve and the relative lack of open space and density of this precinct.

Provisions of Sydney DCP 2012 typically require car parks to be below ground or screened by active uses where above ground (provisions 3.2.2 (5) and (6)) and for public open space to achieve a minimum four hours of sunlight to $50 \%$ of the park in mid-winter (provision 3.1.4(3)(a)).

Flooding at the site means the proposed scheme is unable to comply with provisions 3.2.2(5) and 3.2.2(6)(b). Analysis indicates overshadowing of Larkin Street Reserve complies with provisions 3.1.4(3)(a), but overshadowing of the combined extended park area does not.

While the City is willing to allow some flexibility given the flooding constraints and the offer to extend Larkin Street Reserve, the magnitude of the impact means it is considered unacceptable, even allowing for this flexibility.

For the planning proposal to progress, the proposal will need to be amended to reduce the impact of Building D on Larkin Street Reserve by increasing the setback of Building D from the extended boundary of the reserve and introducing upper level setbacks. Accurate plans, elevations, sections and a 3D massing model are to be submitted illustrating the relationship of the built form to the surrounding area.

## Floor space in the existing warehouse building

The proposed scheme is based on retaining the existing warehouse building and using it for commercial purposes. Under Part 2B of the Apartment Design Guide, the maximum allowable building envelope efficiency for residential uses is $70-75 \%$. The maximum allowable building envelope efficiency for commercial uses under Part 2D is generally 80-85\%.

The building envelope efficiency for the proposed residential buildings is approximately $75 \%$. The building envelope efficiency for commercial use of the warehouse building is approximately $90 \%$.

If the warehouse building is used for residential uses instead of commercial uses, approximately $120 \mathrm{~m}^{2}$ of floor space could be transferred from the warehouse building to one of the proposed new apartment buildings without increasing the FSR. This may increase undesirable impacts, however, no information has been provided about where this floor space is proposed to be located and whether the impacts of the additional floor space will comply with relevant controls, including the Apartment Design Guide.

An amended proposal is to assume the existing warehouse building will be used for residential purposes with a maximum envelope efficiency of $70-75 \%$.

## Land offered to be dedicated

The $452 \mathrm{~m}^{2}$ of land offered for dedication includes part of the central through site link and a portion of land along the irregular-shaped north west boundary. The City has estimated the combined area of these two components to be in the order of $100 \mathrm{~m}^{2}$. Their function and shape means they are not usable open space and they should therefore be excluded from the land offered to be dedicated for open space. This results in an effective extended open space area of approximately $1,350 \mathrm{~m}^{2}$. This is less than the minimum $1,500 \mathrm{~m}^{2}$ needed to provide an appropriate level of usability.

For the planning proposal to progress, the land offered for dedication to extend Larkin Street Reserve will need to be revised to exclude part of the central through site link and part of the north west boundary and ensure the combined usable park area is at least $1,500 \mathrm{~m}^{2}$. If the landowner no longer wishes to dedicate land to extend Larkin Street Reserve, ensure the proposed scheme complies with communal open space and overshadowing requirements in the Apartment Design Guide.

## Next steps

For the planning proposal to progress, the proposed scheme will need to be revised to address the issues above. Any revised submission should be in the form of a consolidated planning and urban design report including all plans, elevations, sections, and overshadowing analysis demonstrating the proposal can comply with relevant controls, including the Apartment Design Guide and Sydney DCP 2012. A three dimensional massing model is also to be provided to confirm the shadow analysis and accurately show the relationship of the built form to the surrounding area. Details on the requirement for 3D models can be requested by emailing to model@cityofsydney.nsw.gov.au.

Please advise within two weeks whether you intend to resubmit a revised scheme that addresses the issues. Alternatively, the City will determine the planning proposal request based on the information submitted to date.

Nothing in this advice precludes the Council from requesting additional information or requiring further issues to be addressed should another concept proposal be submitted.

Should you wish to speak with a Council officer about the above, please contact Benjamin Pechey, Manager Planning Policy, on 92659570 or bpechey@cityofsydney.nsw.gov.au

Yours sincerely,


Graham Jahn AM
Director
City Planning I Development I Transport

## From:

Sent:
To:
Cc:

Subject:

## Jonathon Carle

Thursday, 19 May 2016 10:02 AM
Ben Craig
jamie.stewart@fitzpatrickproperty.com.au; Guy Lake (glake@batessmart.com); jfraser@batessmart.com; Benjamin Pechey
RE: TRIM: Junction Street - Meeting Notes

Hi Ben

Our advice is as follows:

## Overshadowing

The proposal need to comply with Parts 3B and 4A of the Apartment Design Guide. In particular, the proposal needs to ensure at least $70 \%$ of apartments in neighbouring buildings receiving 2 hours or more of sunlight. Additionally, the apartments that receive less than 2 hours cannot have their sunlight reduced to less than 15 minutes measured on the horizontal plane 1 metres above the floor level. Under the current scheme, the number of apartments receiving 2 hours or more is reduced to $70 \%$ and the number of apartments receiving no sunlight (measured on the horizontal plane) is increased by 3 apartments from $27.5 \%$ of apartment to approximately $30 \%$ of apartments. The proposal needs to be amended so the 3 apartments receive at least 15 minutes of sunlight measured on the horizontal plane.

Information also needs to be provided about overshadowing impacts on the apartments at 2A Short Street. Impacts also need to comply with the Apartment Design Guide.

## Side setbacks

The proposal needs to comply with Part 3F of the ADG. In particular, typical floor plans need to be provided showing the side setbacks between habitable and non-habitable rooms. This includes Buildings A, B and D. If typical floor plans are not provided, it will be assumed the rooms with windows facing the side boundaries are habitable. In this case, rooms with windows on levels above 12 metres need to be setback at least 9 metres from the side boundaries. Alternatively, if typical floor plans are provided indicating rooms on levels above 12 metres are non-habitable, the rooms need to be setback at least 4.5 metres. Where the basement car park protrudes more than 3 metres above ground level, it will be considered as a storey.

## Through site link

Relocating the proposed through site link from the central portion of the site to its northern boundary may be considered an acceptable alternative.

## Existing Warehouse

As the building is a period building in the conservation area, retention and adaptation for residential is likely. The retain scenario needs to assume highest and best use permitted in the zone with lowest efficiency, i.e. the envelope is adapted for residential use with floor space calculated at $75 \%$ efficiency. For comparison, an alternative retain scenario based on commercial usage and a higher efficiency should also be provided, in addition to the demolish scenario. To summarise, a total of three of scenarios should be provided.

We understand you'll provide the additional information you've outlined below. Please call Ben or I if you'd like to discuss.

## Regards

Jonathon

Jonathon Carle
Senior Specialist Planner
Strategic Planning \& Urban Design

Telephone: 92467736
cityofsydney.nsw.gov.au

From: Ben Craig [mailto:BCraig@jbaurban.com.au]
Sent: Tuesday, 17 May 2016 11:57 AM
To: Benjamin Pechey [bpechey@cityofsydney.nsw.gov.au](mailto:bpechey@cityofsydney.nsw.gov.au); Jonathon Carle [jcarle@cityofsydney.nsw.gov.au](mailto:jcarle@cityofsydney.nsw.gov.au)
Cc: jamie.stewart@fitzpatrickproperty.com.au; Guy Lake (glake@batessmart.com) [glake@batessmart.com](mailto:glake@batessmart.com); jfraser@batessmart.com
Subject: TRIM: Junction Street - Meeting Notes

Dear Ben / Jonathan,
I hope you are both well. Further to last week's meeting I thought it would be useful just to send out a short summary of the key points and actions that were discussed and agreed. Please see below:

## Overshadowing

- Council to look at 20\% reduction guidance and come back to us. Reference made to 3B-2 of ADG.


## Building D Impacts on Larkin Street

- Bates Smart to prepare some additional plans, including:

0 section views that show the relationship, in particular levels, between Building $D$ and Larkin Street Park.
o Elevation view of building façade fronting the park.
o 3D Model - Bates Smart to contact Mark Werner

- Building D to be a podium with a recessed upper element.


## Existing Warehouse

- Provide an updated design for this area that assumes demolition of the existing building and replacement with residential through the continuation of the proposed built form
- Provide a comparative floor space analysis of the 'retain' vs 'demolish' scenarios. Under the demolish scenario the floor space calculation is to use the $75 \%$ efficiency assumption as requested by Council.


## Through Site Link

- Bates Smart proposed the idea of removing the central through site link. Jesse to think about the pedestrian link through the middle of the site and to come back to us with his thoughts on this.
- Bates Smart to prepare possible alternative options to show Council.


## Park

- Council concerned about quality of park and quality of the built form edge to the park. This was a key concern of the Design Advisory Panel.
- There was a misconception within the Design Advisory Panel that the built form scale was premised on providing additional land for the park.
- Additional information that illustrates the interface with the park will help with providing the Design Advisory Panel a clear understanding of what is intended to be achieved.


## Actions Moving Forward

- Following Guy Lakes presentation, Council to discuss internally re overshadowing guidance and come back to us with clear feedback and direction in this regard.
- Bates Smart to prepare additional information that clearly shows the relationship between the park and the proposed built form.
- $\quad$ The form and scale of Building $D$ to be amended so that it is setback from the podium and so that it appropriately preserves solar access to the south.
- Bates Smart to prepare new plans that show demolition of existing warehouse building.
- Bates Smart to provide floor area comparison between 'retain' and 'demolish' scenarios.

Hope this assists. Please feel free to add if I have missed anything.

Kind Regards

Ben Craig Associate
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jbaurban.com.au - Level 7, 77 Berry Street, North Sydney (PO Box 375, North Sydney NSW 2059)
JBA urban development services in f

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```
Ben Craig <BCraig@jbaurban.com.au>
Wednesday, }20\mathrm{ July 2016 12:38 PM
Jonathon Carle; Benjamin Pechey
Guy Lake; jfraser@batessmart.com; jamie.stewart@fitzpatrickproperty.com.au
Junction Street, Forest Lodge - Response to Council Issues
s11792_FDC_Forest_Lodge_Response_to_Council.pdf
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Hi Jonathan,

Further to our meeting a little while back and your subsequent email below please find attached further design analysis prepared by Bates Smart. The design report sets out a response to each of the matters raised in your email, specifically:

## Overshadowing

A number of key massing revisions have been made to the proposed indicative scheme. These changes are illustrated in detail in the Bates Smart report and are accompanied by a sunlight access analysis to the Larkin Street apartments and the town houses in Short Street. The amendments made to the scheme enable the proposal to comply with Parts 3B and 4A of the Apartment Design Guide, specifically:

- They ensure that two Short Street townhouses impacted by the proposal (7/2A and 8/2A Short Street) receive 2.5 hrs of direct sunlight between 9am and 11.30am on 21 June.
- They ensure that apartments 221, 222, 223 and 224 all receive 1 sqm of direct sunlight, measured at 1 m above floor level, for 15 minutes on 21 June.


## Side Setbacks

Side setbacks to the northern and southern boundaries have been have been increased to satisfy Apartments Design Guide 3F and to improve solar access to the south. As required by Council indicative apartment layouts have also been provided to illustrate how apartments can be designed without the need for windows facing the side boundary.

## Through Site Link

The through site link through the centre of the site has been removed from the proposed design. The southern through site link connecting Larkin Street to Junction Street has been retained to ensure that appropriate pedestrian permeability is provided through the site. The provision of a northern through site link was not considered necessary in this instance given that an alternative link through the south of the site was already provided, which is within 100 m of the northern boundary. It is also noted that a northern link was not considered to be a desirable solution as it provided a potential conflict with the driveway entrance into the proposed development.

## Existing Warehouse

Three options are presented within the Bates Smart Report. These being a scenario that involves demolition of the existing building, a retain scenario that reuses the building for residential, and a retain scenario that reuses the building for commercial purposes. All options results in a floor space ratio of between 1.72 to 1.76 .

## Park

Based on discussions with Council to date it has been concluded by the applicant that the most appropriate way forward for the planning proposal is to retain the site in its current form. With this in mind it has been decided not to proceed with dedicating land to increase the size of the park, but rather provide this land as additional communal space to service residents of the proposed development.

Sectional views and precedent images have also been provided to demonstrate a landscape solution that could be used to address the interface issue between the lower building levels and Larkin Street Park. It is noted that this is one of a number of solutions that could be implements to deal with this interface.

I trust this is what you require at this stage to enable you to progress with your assessment. Should you require any further information please feel free to email me or call on 99566962.

Kind Regards

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SITE SECTION
CARPARK/GROUND LEVEL INTERFACE LARKIN STREET RESERVE SUNLIGHT ACCESS LARKIN STREET APARTMENTS SUNLIGHT ACCESS SHORT STREET TOWNHOUSES SUNLIGHT ACCESS


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PROPOSED MASSING (FEBRUARY 2016) On the 19/05/2016 City of Sydney provided the following in response
to the proposed massing at this time: "Our advice is as follows
OVERSHADOWING
The proposal need to comply with Parts $3 B$ and $4 A$ of the Apartment
Design Guide. In particular, the proposal needs to ensure at least
$70 \%$ of apartments in neighbouring buildings receiving 2 hours or more of sunlight. Additioionally, the apartments that receive less than 2 hours cannot have their sunlight reduced to less than 15 minutes Under the current scheme, the number of apartments receiving 2
hours or more is reduced to $70 \%$ and the number of apartments receiving no sunlight (measured on the horizontal plane) is increased
by 3 apartments from $27.5 \%$ of apartment to approximately $30 \%$ of apartments. The proposal needs to be amended so the 3 apartments
receive at least 15 minutes of sunlight measured on the horizontal Information also needs to be provided about overshadowing impacts
on the apartments at 2A Short Street. Impacts also need to comply
with the Apartment Design Guide. with the Apartment Design Guide.
SIDE SETBACKS
The proposal needs to comply with Part 3F of the ADG. In particular, typical floor plans need to be provided showing the side setbacks
between habitable and non-habitable rooms. This includes Buildings
 the rooms with windows facing the side boundaries are habitable. In
this case, rooms with windows on levels above 12 metres need to be setback at least 9 metres from the side boundaries. Atternatively, if
typical floor plans are provided indicating rooms on levels above 12 metres are non-habitable, the rooms need to be setback at least 4.5
metres. Where the basement car park protrudes more than 3 metres metres. Where the basement car park protrudes more than 3 metres
above ground level, it will be considered as a storey.
THROUGH SITE LINK
Relocating the proposed through site link from the central portion of
the site to its northern boundary may be considered an acceptable the site to its northern boundary may be considered an acceptable
alternative.
EXISTING WAREHOUSE
As the building is a period building in the conservation area, retention and adaptation for residential is likely. The retain scenario needs
to assume highest and best use permitted in the zone with lowest efficiency, i.e. the envelope is adapted for residential use with floor space calculated at scenario based on commercial usage and a higher efficiency should also be provided, in addition to the demolish scenario. To
summarise, a total of three of scenarios should be provided.
KEY MASSING MOVES
(A) 1.5 m setback on Levels $4-6$ of Building A and Level 4 of
Building B (to satisfy Apartment Design Guide 3F)
(B) L-shaped massing form on top two levels of Building $A$ in
order to ensure solar access to Larkin Street apartments two-storey apartments
(C) Increase length of Building A (Levels 1-4) by 8 m towards
Larkin Street Reserve
(D) Demolish Building E, remove mid through-site link and
consolidate Buildings B, C and D into one massing form (with articulation)
(E) Setbacks to southern elevation of new Building B (formerly D) to ensure adequate solar access to townhouses at 2A
Short Street ( 1.5 m setbacks for Levels $1-3$, and 5 m setback or Level 4)
(F) Increase width of Building C by 3.5 m (from 18.5 m to 22 m ).
The 22 m width includes a glass line to glass line dimension of
18 m , and a balcony zone on both sides.
The proposed boundary setbacks of 3 m for buildings $A$ and B comply with Part 3F of the Apartment Design Guide Nisual terrace house across Kimber Lane (for non-habitable rooms to non-compliant existing). These also comply with Part 2F (Building Separation), where the additional 1.5 m setback on rooms' for five to eight storeys (where the basement carpark level is counted as a level).
SITE PLAN
OPTION 01

## BUILT FORM

The proposal provides appropriately sized buildings for the site that will result in well considered alignments, proportions, building and
apartment types promoting varied and diverse occupancy.
Built form is set back 3 m along Junction Street and an 18 m building separation is established to the existing $6-8$ storey buildings on the Orphan's Creek pedestrian connection. The proposal also achieves
ouilding separation between the proposed and existing built form. The buildings dimensions between $12-18 \mathrm{~m}$ in the short dimension promote single oriented planning that maximises solar access
and cross ventilation. And in the longer north south dimension are articulated to provide rhythm and variation to adjoining streets and
parks. The wider building dimension at the southern end of Building B 22m) allows for balconies on both sides to maximize park views, with
a glass line to glass line dimension of 18 m (as recommended by the Apartment Design Guide).
Building orientation maximises solar access and provides for
maximum visual connectivity to landscaped courtyards and parks.
The buildings will further improve public and communal amenity to landscaped courtyards, parks and pathways within and surrounding
the site the site by providing activated edges and natural surveillance. The proposed through-site link connecting Larkin Street to St John's
Road has been widened, with a landscaped edge. Road has been widened, with a landscaped edge.
INDICATIVE PLAN MEASURED AREAS:
/ BUILDING A GFA $=661$ SQM
/ BUILDING A GFA $=661$ SQM
/ TOTAL GFA = 1948 SQM
EFFICIENCY (MEASURED GFA / PLANNING ENVELOPE GEA)
$=1,948$ SQM $/ 2,598$ SQM $=75 \%$


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\% PARK AREA WITH
DIRECT SUNLIGHT



These raytracing diagrams illustrate how setbacks in Level 5 and Leve
of Building A permit solar access to Units 221-224 at 1-3 Larkin 6 of Building A permit solar access to Units $221-224$ at $1-3$ Larkin
the Apartment Design Guide:
To maximise the benefit to residents of direct sunligt within living room and private open spaces, a minimum of 1 sqm of direct sunlight, measured
at 1m above floor level, is achieved for at least 15 minutes.
Specifically Unit 221 receives 1 sqm of direct sunlight for 15 minutes
(from 9:40am to $9: 55$ am) and Units 222-224 receive 1 sqm of direct (frum 9:40am to 9:55 am ) and
sunlight for 15 minutes (from 92:45am to 10:00 am).



[^0]:    ${ }^{1}$ Peak depths far exceed average depths due to the fact that the subject site is steeply sloping.

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