# **Engineering Referral**

DA No.	10.2021.170.1
Proposal:	Mixed Use Development comprising Twenty Seven (27) New Eco Tourist Facility Cabins, Seven (7) Ancillary Buildings including Wellness Facility, Refuges, Depot, Addition of Deck to Existing Centre and Associated Earthworks and Vegetation Removal, and Change of Use of Fourteen(14) Private Education Accommodation Units to Eco Tourist Facility Units
Property description:	PT: 1 DP: 1031848
Property description.	951 Broken Head Road BROKEN HEAD
Parcel No/s:	238081
Applicant:	Planners North Pty Ltd
Owner:	BHCF Pty Ltd
Zoning:	Zone No. E2 Environmental Conservation / PART E3 Environmental
	Management / PART RU2 Rural Landscape / PART SP1 Special
	Activities / PART DM Deferred Matter
Planning Officer:	Mr I C Holland
Referral Date:	14 April 2021

#### This engineering assessment is based on the following documents:

Date	Description	TRIM Doc. No.
28/3/22	TfNSW Response	E2022/28295
8/8/22	TIS & Engineering Report	E2022/75395
8/8/22	SEE	E2022/75399
8/8/22	Site Plan 2	E2022/75400
8/8/22	Site Plan	E2022/75401
8/8/22	Development Drawings	E2022/75402

#### RECOMMENDATION

No engineering objections, subject to the conditions recommended at the end of this report

Note to Planner: Footbridge over the waterway is not supported due to insufficient information

Renan	Solatan
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17 August 2022

Administration use only

□ Check if Engineer has granted Roads Act approval, please create 51 register and determine it, need to also place payments on the DA – Fee Codes RAA \$105 and RAI \$310

Lock Assessment Report

□ Print full Assessment Report for file with sign off included by engineer.

#### \*\* Administration Instructions\*\*

Update tracking item outcome as 'COMP'

□ Lock document.

Place referral and documents with Stamped plans on trolley for delivery to Planner

## PLEASE RETURN REFERRAL TO ADMIN TRAY

### ASSESSMENT

Initial Review				Additional Info Req.
LEP	⊠ 2014	□ 1988		
DCP	⊠ 2014	□ 2010	□ 2002	
DP & S88B	Easements	Restrictions	Covenants	
Road Frontage	Private	Local	Classified	
Subdivision	□ Land	Strata	Community	
Strata Development Contract	□ Yes	🗆 No		
Traffic & Parking Considered	⊠ Yes	🗆 No		
Traffic Committee Referral	🗆 No	Local	Regional	
Flood Affected Land	□ Yes	🗆 No		
Coastal Erosion	□ Yes	🗆 No		
Slip/Subsidence	□ Yes	🗆 No		
<b>Controlled Activity Approval</b>	□ Yes	🗆 No		
Stormwater Considered	□ Yes	🗆 No		
Previous DA	□ Yes	□ No		
DAP Advice	□ Yes	□ No		

Proposal - Mixed Use Development of the eastern part of Lot 1 DP 1031848	Traffic	Parking
12 x B Type cabins all located in grassland east of the pool and tennis court;	Additional 12 cabins	Additional 12 cabins
reception and administration building (CB.2); (37 staff)	staff	1 space per 2 staff
bushfire refuge building (CB.3);	no	no
recreation facility (indoor) building adjacent to the pool and alterations to an existing pool building to provide a food and beverage kiosk (CB.4);	ancillary	ancillary
storage and maintenance building (CB.6);	no	no
Alts & adds to the existing Private Education Centre building (CB.1) & use of that structure (other than the Library and Office area) as a restaurant or cafe	restaurant or cafe	restaurant or cafe
The "eco-tourist facility" use of the part of the land zoned SP1 for recreational	. educational	and

amenity purposes The resultant proposal to be resubmitted in late July / early August 2022 has reduced the scope,

removing several items from the application, as follows:

- Removal of 14 x Type A cabins (A9 to A22) and 1 x Treehouse Retreat (C1), including removal of the associated boardwalk buggy track, pathways and steps;
- Redesign and relocation of 8 x Type A cabins (A1 to A8) and 4 x Type B Rainforest Retreat cabins (B1 to B4), now defined in the revised proposal as B1 to B12.
- Reduction in the amount of roads and paths servicing the proposed development;
- Reduction in the water and sewerage infrastructure servicing the proposed development;
- Removal of the shed (CB05), depot building (CB07) and associated infrastructure; and
- Reduction in the size of the proposed reception buildings (CB02) and associated infrastructure.

The revised proposal now seeks to increase the existing occupancy by 24 (12 units x 2 persons per unit).



Site Plan

## LEP 2014 / DCP 2014

#### **BUILDING & OTHER DEVELOPMENT** 1. External Access Comments Ν Reference S U Section 79 C of Environmental Planning and Assessment Act 1979 Section 79C (1) (a) (i) the provision of any environmental planning instrument Section 79C (1) (a) (iii) the provision of any development control plan Section 79C (1) (b) the likely impacts of that development LEP 2014 Cl. 6.6€ Suitable vehicular access is available – refer DCP comments below. $\boxtimes$ DCP 2014 B3.2.1.7 Road Access - Council Controlled Roads $\boxtimes$ Broken Head Road forms part of The Coast Road (MR545) a classified (Regional) road. Council is the roads authority for both roads and all other public roads in the area, in accordance with Section 7 of the Roads Act 1993. Comments from TfNSW Council should be satisfied that the existing access arrangement is appropriate for the proposed increase in daily and peak hourly demand at the site access. 316.13 m<sup>2</sup> 10.03 m 19.03 m 271 0.870 19.87 m



320.52 m<sup>2</sup>

outsi

TfNSW Standard Drawing

The current proposal meets the TfNSW Type 1 Typical Rural Property Access Standard. No upgrading works required.



- Number = 12 cabins
- Parking Rate = 1 space per cabin
- Required = 12 spaces

#### Staff

- Number = 11 staff
- Parking Rate = 1 space per 2 staff
- Required = 5.5 spaces say 6 spaces

Visitors

- Number = 12 cabins
- Parking Rate = 1 space per 4 cabins
- Required = 3 spaces

Total Number Required = 21 spaces

Restaurant - principal purpose being for the preparation and serving of food and drink for consumption by participants of the Private Education and ecotourism activities.

The addendum to the TIA did not assess the traffic generated by the restaurant. The restaurant is therefore ancillary to Private Education and ecotourism activities.

Condition be included that the restaurant use for the patrons of Private Education and ecotourism activities only and no public access is permitted.

Existing

				1 I I					1
Number	Туре	Status	Parking Rate	Requirement	Number	Туре	Status	Parking Rate	Requiremen
2	House	Existing	2 spaces per house	2	1(34)	House	Not constructed	2 spaces per house	2
3	Unit	Existing	1 space per unit	1	18	Unit	Not constructed	1 space per unit	1
4	Unit	Existing	1 space per unit	1	19	Unit	Not constructed	1 space per unit	1
5	Unit	Existing	1 space per unit	1	20	Unit	Not constructed	1 space per unit	1
6	Unit	Existing	1 space per unit	1	21	Unit	Not constructed	1 space per unit	1
7	Unit	Existing	1 space per unit	1	22	Unit	Not constructed	1 space per unit	1
8	Unit	Existing	1 space per unit	1	23	Unit	Not constructed	1 space per unit	1
9	Unit	Existing	1 space per unit	1	28	Unit	Not constructed	1 space per unit	1
10	Unit	Existing	1 space per unit	1	29	Unit	Not constructed	1 space per unit	1
11	Unit	Existing	1 space per unit	1	30	Unit	Not constructed	1 space per unit	1
12	Unit	Existing	1 space per unit	1	31	Unit	Not constructed	1 space per unit	1
13	Unit	Existing	1 space per unit	1	32	Unit	Not constructed	1 space per unit	1
14	Unit	Existing	1 space per unit	1	33	33 Unit Not constructed		1 space per unit	1
15	Unit	Existing	1 space per unit	1				Total	14
16	Unit	Existing	1 space per unit	1					
17	Unit	Existing	1 space per unit	1	Visi	tors	32 units	1 space per 4 units	8
24	Unit	Existing	1 space per unit	1	St	aff	26	1 space per 2 staff	13
25	Unit	Existing	1 space per unit	1	Man	ager	1	1 per manager	1
26	Unit	Existing	1 space per unit	1				Total	22
27	Unit	Existing	1 space per unit	1					
			Total	21	Exi	sting Parkin	ng Requirement	Total	57

Overall Total is 78 spaces (57 + 21)

It is noted that there are 14 parking spaces allocated for units and house not built. These parking spaces can be provided during the construction of these buildings

Revised Total is 62 parking spaces

Parking Provided





This shall be conditioned accordingly

B4.2.3	Vehicle Access and Manoeuvring Areas	$\boxtimes$	

Comments from TfNSW

The driveway, internal manoeuvring, car parking and service vehicle areas should be designed and constructed in accordance with the relevant parts of AS.2890 and to Council's specifications



## Section 79 C of Environmental Planning and Assessment Act 1979

Section 79C (1) (a) (i) the provision of any environmental planning instrument Section 79C (1) (a) (iii) the provision of any development control plan Section 79C (1) (b) the likely impacts of that development

DCP 2014

Medium density residential flat building

<u>B4.2.1</u>	Traffic Impact						_	$\boxtimes$		
				19/8/2	2					
Comments fr	om TfNSW									
<ol> <li>The prop current la vehicles a 80km/h s</li> <li>Any regu Council a traffic ava</li> </ol>	osed developmen ayout of the inter and safe intersec speed environme latory signs will n pproval. Please r ailable here.	nt will i section tion sig nt require refer to	ncrease at the s ht distar the endo A guide	peak ho ite acce nce (SIS prsemen to the o	ourly and ess provid D) is achi nt of the delegation	daily demand f les a 'Seagull' t eved in both di Local Traffic Co n to councils fo	for vehicles reatment for rections for mmittee p r the regul	. The or tur r the rior t atior	e rning co i of	)
Assessment										
Trip Generati	ion									
Existing (mo	derate impact)									
	and Use		Traffic ger	eration rates	;			10120		
Residential		Daily V	ehicle Trips	Peak Hou	r Vehicle Trips		DVT's	PHT's	ł	
Dwelling houses		7.4	/dwelling	0.78	/ dwelling	No. of dwellings = 1	7.4	0.78		
		4 5	Up to 2	bedrooms	/dwolling	No of dwollings - 10	76 05 7.6			
Medium density res	idential flat building	4 - 5 3 b	edrooms or m	0.4-0.5 ore	/dwelling	NO. OF dwellings = 19	70 - 95 7.0	- 9.:	2	
		5 - 7	/dwelling	0.5-0.65	/dwelling	No. of dwellings = 0	0 - 0 0	- 0	1	
Existing + Ap	proved Units not	t consti	ructed (m	noderat	e impact)					
			Traffic ga	aration rate	r	ΤΟΤΑ	L: 169.8	17.06		
l	and Use	Daily V	ehicle Trips	Peak Hou	s Ir Vehicle Trips		DVT's	PHT's	1	
Residential										
Dwelling houses		7.4	/dwelling	0.78	/ dwelling	No. of dwellings = 2	14.8	1.56	-	
		4 - 5	/dwelling	0.4-0.5	/dwelling	No. of dwellings = 31	124 - 155 1	2 - 1	6	
Medium density res	idential flat building	3 b	edrooms or m	ore						
		5 - 7	/dwelling	0.5-0.65	/dwelling	No. of dwellings = 0	0 - 0 0	) - (	)	
Proposal (low	(impact)									
-										
			Traffic ger	neration rate	5	TOTAL	.: 60	6	•	
-	Land Use	Daily V	ehicle Trips	Peak Hou	r Vehicle Trips		DVT's	PHT's		
Residential		74	/dwalling	0.79	/ dwalling	No of dwallings - 0		0		
Dwenning houses		7.4	Up to 2	bedrooms	/ dwerring	No. of dwellings = 0	0	U	-	
Medium density res	idential flat building	4 - 5	/dwelling	0.4-0.5	/dwelling	No. of dwellings = 12	48 - 60 4.4	8 - 6		
	-	3 b	edrooms or m	ore	/dwelling	No. of dwellings = 0		- 0		
Bd.2.1     Traffic Impact     Image: 19/8/22       Comments from TfNSW       1. The proposed development will increase peak hourly and daily demand for vehicles. The current layout of the intersection at the site access provides a "seaguil' treatment for turnin vehicles and safe intersection at the site access provides a "seaguil' treatment for turnin vehicles and safe intersection at the site access provides a "seaguil' treatment for turnin vehicles and safe intersection sight the site (SID) is achieved in both directions for the 80km/h speed environment       2. Any regulatory signs will require the endorsement of the Local Traffic Committee prior to Council approval. Please refer to A guide to the delegation to councils for the regulation of traffic available here.       Assessment       Trip Generation       Existing (moderate impact)       Underline the trip frequencies reset       Volter intersection states       Control to constructed (moderate impact)       Volte to be been moderate impact)		-								
19/8/22         Comments from ThNSW         1. The proposed development will increase peak hourly and daily demand for vehicles. The current layout of the intersection at the site access provides a "seaguilt" treatment for turning vehicles and safe intersection significance (SISD) is achieved in both directions for the 80km/h speed environment         2. Any regulatory signs will require the endorsement of the Local Traffic Committee prior to Council approval. Please refer to A guide to the delegation to councils for the regulation of traffic available here.         Assessment         Trip Generation         Existing (moderate impact)         To dealing the information of the Local Traffic Committee prior to Council approval. Please refer to A guide to the delegation to councils for the regulation of traffic available here.         Assessment         Trip Generation         To dealing houses         10/2 / Availing Not developed in the develo										
	<u> </u>					τοται	162.4	16.28	1	
	and Lise		Traffic ger	eration rates	;			10120		
Paridontial		Daily V	ehicle Trips	Peak Hou	r Vehicle Trips		DVT's	PHT's	ł	
Dwelling houses		7.4	/dwelling	0.78	/ dwelling	No. of dwellings = 1	7.4	0.78		
			Up to 2	bedrooms						
Medium density res	idential flat building	Image: Second S	- 16	-						
-		5 - 7	/dwelling	0.5-0.65	/dwelling	No. of dwellings = 0	0 - 0 0	- 0	1	
Existing + Ap	proved Units not	t consti	ructed +	Propos	al (moder	ate impact)				
	34.2.1       Traffic Impact         19/8/22         Comments from TfNSW           - The proposed development will increase peak hourhy current layout of the intersection sight distance (SISD) is 80km/h speed environment         Comment Sight distance (SISD) is 80km/h speed environment         Any regulatory signs will require the endorsement or Council approval. Please refer to A guide to the delet traffic available here.         Any regulatory signs will require the endorsement or Council approval. Please refer to A guide to the delet traffic available here.         Any regulatory signs will require the endorsement or Council approval. Please refer to A guide to the delet traffic available here.         Assessment         Trip Generation         Traffic generation rates         Daily Vehicle Trips Peak Hour Vehic Approved Units not constructed (moderate in reference)         Advecting 0.30.65 /dw         Species of the proposal (low impact)         Cand Use Traffic generation rates         Daily Vehicle Trips Peak Hour Vehic Approved Units not constructed (moderate in rate)         Vehicle Trips Peak Hour Vehic Approved Intersection and the pain Vehic Trips Peak Hour Vehic Approved Intersection and the pain Vehic Trips Peak Hour Vehic Approved Units not constructed + Proposal /dw         Advecting 0.40.5 /			ΤΟΤΑΙ	234.8	23.56				
-	Land Use	Daily V	ratfic ger ehicle Trips	Peak Hou	s r Vehicle Trips		DVT's	PHT's	t i	
Residential										
Dwelling houses		7.4	/dwelling	0.78	/ dwelling	No. of dwellings = 2	14.8	1.56	4	
Medium density ros	idential flat building	4 - 5	/dwelling	0.4-0.5	/dwelling	No. of dwellings = 44	176 - 220 18	3 - 22	2	

3 bedrooms or more

5 - 7 /dwelling 0.5-0.65 /dwelling

No. of dwellings =

0

0 - 0 0 - 0

Trip Generation								
	Daily	Peak Hour						
Existing	102	10.28						
Existing + Approved Units not constructed	170	17.06						
Proposal	60	6						
Existing + Proposal	162	16.28						
Existing + Approved Units not constructed + Proposal	235	23.56						

#### Summary

The traffic generated by the proposal & existing is lesser than the existing + approved & unconstructed buildings. The ultimate traffic generation is 235 daily trips and 24 peak hour trips a theoretical increase of 65 daily trips and 7 peak hour trips.

Previous TIA 3080-1070 by Geolink, fourth issue dated 20/01/2021

#### Original Proposal

Table 2.2 Linnaeus Existing Use Traffic Estimate

Existing Use	Number	Daily Trip Rate per Unit	aily Trip Peak Hour Trip Total Daily ate per Unit Rate per Unit Trips				
Dwelling	1	7.4	0.78	7.4	0.78		
Education accommodation	19	3	0.4	57	7.6		
Total				65	9		

Table 3.2 Estimated Traffic Generation of Proposed Development

Proposed Use	Number	Daily Trip Rate per Unit	Peak Hour Trip Rate per Unit	Total Daily Trips	Total Peak Hour Trips
Eco-tourism Accommodation	27	3	0.4	81	10.8

#### **TIA Findings**

The existing 'seagull' intersection arrangement on MR545 has been assessed according to the warrants for turn treatment and safe intersection sight distance according to Austroads.

The existing arrangement provides for traffic safety and efficiency for both the existing development and expected development traffic generation, with ample capacity for much higher traffic volumes.

The existing access connection to MR545 also has enough width and length to meet the requirements of AS2890 for access.

As a result, it is expected that the existing arrangement will continue to operate satisfactorily for traffic safety under the proposed development.

#### Amended Proposal

							TOTAL:	162.	4	10	6.28
Land Lice			Traffic ger	neration rate	25						
Land Use		Daily Vehicle Trips			ur Vehicle Trips			DVT's		PHT's	
Residential											
Dwelling houses	7.	4	/dwelling	0.78	/ dwelling	No. of dwellings	- 1	7.4		0	.78
	Up to 2 bedrooms										
Medium density residential flat building	4 -	•	5 /dwelling	0.4-0.5	/dwelling	No. of dwellings	= 31	124 -	155	12	- 16
Medium density residential flat building		3	bedrooms or m	ore							
	5 -	•	7 /dwelling	0.5-0.65	/dwelling	No. of dwellings	= 0	0 -	0	0	- 0

The amended proposal (16 peak hour trips) generates less peak hour traffic than the original proposal (20 peak hour trips).

As a result, the existing arrangement will continue to operate satisfactorily for traffic safety under the amended development proposal.

SEPP (Infrastructure) 2007					
<u>Cl. 101</u>	Development with frontage to classified road	$\boxtimes$			
Minimal Impact					
<u>Cl. 104</u>	Traffic-generating development ( <u>Schedule 3</u> )	$\boxtimes$			
Minimal Impact					

## 5. Stormwater management

Section 79 C of Environmental Planning and Assessment Act 1979 Section 79C (1) (a) (i) the provision of any environmental planning instrument Section 79C (1) (a) (iii) the provision of any development control plan Section 79C (1) (b) the likely impacts of that development

<u>Cl. 6.6(d)</u>	Stormwater drainage – refer DCP comments below.		
DCP 2014			
<u>B3.2.3.1</u>	Development Application		
B3.2.3.2	Properties adjacent to or containing waterways		
B3.2.3.3	Site Drainage	$\boxtimes$	



TABLE 3.2 LAND USE BU	DGET	
Land Use	Area	Percentage
	(ha)	(%)
Site Area	110.7	100%
Roads & Parking	2.1	1.9%
Buildings	0.66	0.6%
Habitat & Landscaped	107.9	97.5%
Area		

Minimal earthworks are proposed to maintain the existing topography of the site, minimise environmental disturbance, avoid impacting existing services and allow for retention of the existing stormwater drainage flow paths.

Stormwater flows for both the minor and major storm events are to stay aboveground. The stormwater management at the site is to match the existing conditions as best as possible. Cabins designed 'on stilts' allowing for flow underneath the buildings, and an overall minimal use of hardstand areas.

Rainwater harvesting will be used wherever possible, collecting roof water rather than allowing it to generate runoff. In larger or longer storm events, overflow from rainwater tanks will be directed to basic constructed gravel pits, encouraging as much flow as possible to infiltrate.

The existing network of open swale drains will be expanded to fit the proposed works and design to ensure stormwater flow has a minimal impact on the amenity, usability and integrity of the infrastructure. The central gully along with the other open swale drains will be vegetated to provide water quality treatment during the flow of stormwater through the site

Works are proposed over the second order stream. These works will require a Controlled Activity Approval.

The proposal will increase the impervious area (approximately 2000m<sup>2</sup> or 0.2%) of the site. This increase however is considered minimal and will not create adverse impact to the site and its surrounds.

B3.2.3.4	Lawful Point of Discharge	$\boxtimes$		
First Order S	tream traversing through the site			
B3.2.3.5	Easements			$\boxtimes$
B3.2.3.6	On-site Stormwater Detention (OSD)			$\boxtimes$
B3.2.3.7	Stormwater Quality and Treatment	$\boxtimes$		
To be conditioned accordingly				
B3.2.4	Sedimentation and Erosion Control Measures	$\boxtimes$		
To be conditioned accordingly				

6. Coastal Hazard						
Reference	Comments	S	U	N A		
Section 79 C of Environmental Planning and Assessment Act 1979 Section 79C (1) (a) (i) the provision of any environmental planning instrument Section 79C (1) (a) (iii) the provision of any development control plan Section 79C (1) (b) the likely impacts of that development						
LEP 2014						
<u>Cl. 5.5(3)(d)</u>	Development within the coastal zone	$\boxtimes$				

Reference	Comments	S	U	N A	
Erosion prec	inct 3 encroaches into the site, however no buildings are located inside pre	ecinc	t 3.		
DCP 2014	DCP 2014				
<u>E1.2.9</u>	Development and servicing of land affected by predicted coastal hazards			$\boxtimes$	
<u>E5.4.1</u>	Development and servicing of land affected by predicted coastal hazards	$\boxtimes$			

7. Geotech	nical Hazard					
Reference	Comments	s	U	N A		
Section 79 C Section 79C ( Section 79C (	Section 79 C of Environmental Planning and Assessment Act 1979 Section 79C (1) (a) (iii) the provision of any development control plan Section 79C (1) (b) the likely impacts of that development					
General						
N/A	Geotechnical Hazards, soil instability - subsidence, slip, etc.					
DCP 2014						
<u>B14.2</u>	Excavation and Fill in all Zones					

8. Other Matters					
Item No.	Comments	S	U	N A	
1					
2					

# **REQUEST FOR FURTHER INFORMATION (STC) CHECKLIST**

Prior to further consideration from an engineering viewpoint, the following mattes must be addressed:

Submission of an amended traffic assessment prepared in accordance with the requirements of section B4.2.1 of Chapter B4 of DCP 2014.
The following are to be considered:
<ul> <li>To include the existing traffic utilising the access for Case 1 &amp; Case 2 peak distributions and recalculation of the queue length provision between the Byron Bay Road and the existing controlled gate</li> <li>Transport For NSW drawing – Typical Rural Property Access Northern Region 19/5/20</li> </ul>
Submission of plans and calculations demonstrating compliance with the requirements of Chapter B4 of DCP 2014 for car parking, bicycle and loading facilities. The plans should include dimensions, finished levels, grades and turning paths demonstrating compliance with AS 2890.
Submission of a Stormwater Concept Plan, prepared in accordance with section 3.4 of Council's Comprehensive Guidelines for Stormwater Management, demonstrating compliance with section B3.2.3 of Chapter B3 of DCP 2014.
The following are to be considered:
Compliance to Table B3.2 for Precinct 1 & 2:
<ul> <li>Hydrologic study by a qualified person to demonstrate that the proposal will not interfere with the natural flowpath or be subject to flooding. Appropriate buffers to waterways must be provided</li> </ul>
<ul> <li>Details or analysis must be undertaken to investigate the impact of the works specifically the proposed earthworks and building works within and adjacent to the waterway and identify the Flood Planning Levels of buildings. Q<sub>100</sub> water surface levels. Q<sub>100</sub> depth of flow</li> </ul>
and Q <sub>100</sub> velocities.
Submission of detailed Stormwater Management Construction Plans, prepared in accordance with section 3.5 of Council's Comprehensive Guidelines for Stormwater Management, demonstrating compliance with section B3.2.3 of Chapter B3 of DCP 2014.
Submission of a flooding assessment demonstrating compliance with clause 6.3 of Byron LEP
$\frac{2014 \text{ and } 8601000 \text{ C2.3.3 a C2.3.4 00 Chapter C2 00 DCF 2014.}}{2014 \text{ C2.3.3 a C2.3.4 00 Chapter C2 00 DCF 2014.}}$

### **Recommended Conditions**

#### **Parameters**

#### 1) Coastal Erosion

The development must cease if at any time the coastal erosion escarpment comes within 50 metres of any building associated with this development. The buildings and works used in connection with the development must be removed immediately to an approved location by the owner of the land. The owner must return the landform of the subject land to the predevelopment state and suitably revegetate the land.

In this condition coastal erosion escarpment means the landward limit of erosion in the dune system caused by storm waves.

Note: at the end of a storm the escarpment may be nearly vertical; as it dries out, the escarpment slumps to a typical slope of 1 vertical to 1.5 horizontal.

2) Controlled Activity Approval – Stormwater Works adjacent to the waterway area A Controlled Activity Approval under section 92 of the Water Management Act 2000 must be made to the Natural Resources Access Regulator (NRAR) for works within the waterway area.

Such plans and specifications must be submitted to the Principal Certifying Authority and shall form part of the Construction Certificate.

# The following conditions are to be complied with prior to issue of a Construction Certificate for building works

#### 3) Sediment and Erosion Control Management Plan required

The application for a Construction Certificate is to include plans and specifications that indicate the measures to be employed to control erosion and loss of sediment from the site. Control over discharge of stormwater and containment of run-off and pollutants leaving the site/premises must be undertaken through the installation of erosion control devices such as catch drains, energy dissipaters, level spreaders and sediment control devices such as filter fences and sedimentation basins.

Such plans and specifications must be approved as part of the Construction Certificate.

# NOTE: The plans must be in compliance with Council's current "Northern Rivers Local Government Development Design & Construction Manuals and Standard Drawings".

#### 4) Stormwater Drainage – Connection to Existing Drainage System

The application for a Construction Certificate is to include plans and specifications for stormwater drainage in accordance with AS/NZS 3500.3:2003, *Plumbing and drainage, Part 3: Stormwater drainage*. All stormwater drainage for the development must be conveyed by a gravity system to the existing stormwater drainage system within the site. Such plans and specifications must be approved as part of the Construction Certificate.

The following WSUD measures must be included in the design of the stormwater management plan for the site but not limited to:

- Vegetated swales
- Rainwater harvesting
- Rainwater tanks
- Stormwater Quality measures to meet the objectives of Table B3.1 of Chapter B3 of DCP 2014
- Dispersion trenches
- Energy dissipators at outlet points

#### 5) Car parking layout, vehicle circulation and access plans required.

The application for a Construction Certificate is to include plans and specification that indicate access, parking and manoeuvring details in accordance with the plans approved by this consent.

The access, parking and footpath for the site is to comply with the requirements of AS 2890.1-2004: Parking facilities, Part 1: Off-street car parking and AS 2890.2 – 2010 - Parking facilities, Part 2: Off-street commercial vehicle facilities. Plans are to include, but not be limited to, the following items:

- a) A total of 63 parking spaces including 4 accessible parking spaces
- b) Adopt a parking user class 2 for general parking and class 4 for accessible parking
- c) Pedestrian access mobility plan (footpath network). Footbridge over the waterway area from the reception building is to be deleted.
- d) pavement design, comprising an all weather surface, such as asphalt, bitumen seal, concrete, pavers or other similar treatment;
- e) site conditions affecting the access;
- f) existing and design levels;
- g) longitudinal section from the road centreline to the car space(s);
- h) drainage details;
- i) turning paths; and
- j) line marking and signage.

The engineering plans and specifications are to be designed by a qualified practising Civil Engineer. The Civil Engineer is to be a corporate member of the Institution of Engineers Australia or is to be eligible to become a corporate member and have appropriate experience and competence in the related field.

Such plans and specifications must be approved as part of the Construction Certificate.

#### NOTE:

The plans must be in compliance with Council's current "Northern Rivers Local Government Development Design & Construction Manuals and Standard Drawings".

All approved building/units but not constructed will require additional parking spaces

# The following conditions are to be complied with prior to any building or construction works commencing

#### 6) Erosion and Sediment Control Management Plan required

Erosion and sedimentation controls are to be in place in accordance with the approved Erosion and Sediment Control Plan.

Sediment and erosion control measures in accordance with the approved Erosion and Sedimentation Control plan/s must be maintained at all times until the site has been stabilised by permanent vegetation cover or hard surface.

Any such measures that are deemed to be necessary because of the local conditions must be maintained at all times until the site is made stable (i.e. by permanent vegetation cover or hard surface).

#### Note: Council may impose on-the-spot fines for non-compliance with this condition

#### The following conditions are to be complied with during construction

7) Maintenance of sediment and erosion control measures Sediment and erosion control measures must be maintained at all times until the site has been stabilised by permanent vegetation cover or hard surface.

#### The following conditions are to be complied with prior to occupation of the building

8) Internal driveway, footpath and parking areas in accordance approved plans

A internal driveway, footpath and parking areas are to be constructed from the property boundary to the proposed car space(s) in accordance with the approved plans.

#### 9) Stormwater disposal

Stormwater must be collected and disposed of in a controlled manner such that stormwater flows are:

- a) Clear of buildings and infrastructure,
- b) Clear of effluent disposal areas,
- c) Not concentrated so as to cause soil erosion,
- d) Not directly to a watercourse, and
- e) Not onto adjoining land.

#### The following conditions will need to be complied with at all times

#### Notes