YOUR REF: PDR 10070

OUR REF: OP 4332/2011 (763281)

21 November 2016

Wonga Beach Aquaculture Resort Pty Ltd C/- PDR Engineers PO Box 2551 CAIRNS QLD 4870

Attention: Mr Alan McPherson

Dear Sir

DECISION NOTICE FOR OPERATIONAL WORKS VIXIES ROAD, WONGA BEACH

Please find attached the relevant Decision Notice for the above Operational Works. Also find attached a 'Pre-Start' meeting template, which identifies the information that must be provided for Council approval, prior to the commencement of works.

The template also provides the Consulting Engineer with a format for conducting the meeting. An invitation to attend the meeting must be sent to Council's representative Neil Beck on telephone number 07 4099 9451, giving at least five (5) working days notification if possible.

In addition to the Decision Notice, Council provides the following 'Advice Statement' which relates to issues that are relevant to the proposed works:

- The design of landscape and lighting works are subject to separate 1. agreement and must be submitted to Council, prior to the commencement of associated works: and
- 2. The Consulting Engineer is to present all contractors with a copy of this Decision Notice and the Council approved plans, prior to the commencement of works.

Should you require further information or assistance, please contact Neil Beck of Development and Environment on telephone 07 4099 9451.

Yours faithfully

Paul Hoye Manager Sustainable Communities

Att

Copy To: Manager Infrastructure – Michael Kreidemann A/Manager Water & Waster – Peter White Project Engineer – Michael Mathews Coordinator Civil Works – Kim Armbrust Coordinator Public Spaces – Peter Logan

GIS Support – Alistair Hart

YOUR REF: PDR 10070 OP 4332/2011 (763281)

21 November 2016

DECISION NOTICE FOR OPERATIONAL WORKS VIXIES ROAD, WONGA BEACH

PROPOSAL:

Operational Works (Engineering) excluding Landscape and Lighting Works

TYPE OF DEVELOPMENT:

Operational Work

REAL PROPERTY DESCRIPTION:

Lot 51 on SP155078

REFERRAL AGENCY CONDITIONS:

None applicable

FURTHER DEVELOPMENT PERMITS OR APPROVALS REQUIRED:

None applicable

DECISION DATE:

21 November 2016

DECISION:

Approved subject to conditions

TYPE OF APPROVAL:

Development Permit

ASSESSMENT MANAGER CONDITIONS - STANDARD:

The standard conditions are shown in Appendix B and must be read in conjunction with any approved plans and project specific conditions identified below.

ASSESSMENT MANAGER CONDITIONS - PROJECT SPECIFIC:

Earthworks

- 1. In the event that acid sulphate soils are encountered, the applicant is to ensure the site is managed in accordance with requirements of the Queensland Acid Sulphate Technical Manual and State Planning Policy. In addition, an ASS/PASS Management Plan is to be submitted to Council within seven (7) days, should site excavations identify the presence of acid sulphate soils.
- 2. All earthworks are to be constructed in accordance with Australian Standard 3798-2007, Guidelines on Earthworks for Commercial and Residential Developments; additionally, further certification is to occur when works are completed and test results are compiled. This information is to be provided to Council prior to Works Acceptance.
- 3. The works must not cause, or be likely to cause, environmental harm resulting from the release of contaminants, dust, noise or sediments from the site. Appropriate Erosion and Sediment Control (ESC) measures must be installed and maintained for the duration of the works or until all exposed areas have been fully re-vegetated or stabilized.
- 4. Allotment earthworks should be free draining and not cause any ponding on adjacent properties.
- 5. Haul routes are to be advised to and approved by Council prior to the commencement of work. The internal Haulage Route is to be from Vixies Road.
- 6. Prior to the commencement of filling, the applicant/contractor is to prepare a Road Condition Report of the proposed haulage route indicating all existing problems with the roadway along the identified haul route. On completion, the haul route shall be subject to a joint inspection by the applicant and Council Officers to identify any further damage that has occurred. If any additional damage has occurred, all rectification works shall be at the applicant's expense, to the satisfaction of the Chief Executive Officer. The report is to contain (but not limited to): location of existing deficiencies of the roadway and site photos of the route especially at areas where turning movements will occur.
- 7. The toe of the building pads is to be setback a minimum of 6 metres from the front boundary. The building pad for Lot 10 is to be amended or extended to provide a regular shaped pad. Such amendments are required prior to the commencement of works.

Water

8. Confirm the existing and proposed cover over Council owned existing water mains within the area of Snapper Island Drive Culvert works and confirm that the water mains will not be adversely impacted by the works. Details, including a long section, are to be submitted and approved prior to commencement of work. Provide details of any modifications to valves and hydrant. Modifications to the existing water infrastructure are to be undertaken by Council at the developer's cost. 9. Any entry and exit point over Council's existing water infrastructure under the proposed haulage route is to be provided with adequate protection measures to avoid damage.

On-site Wastewater Disposal

10. Locations and details of earthworks pads intended for disposal area submitted and approved prior to commencement of work. Submit an amended allotment grading and earthworks plan prior to the commencement of works.

Roads and Paths

11. A footpath in accordance with the requirements of FNQROC Development Manual must be provided on the eastern side of Snapper Island Drive. The drainage culvert in Snapper Island Drive must be extended to accommodate the footpath and associated handrails within the road verge. The footpath is to ultimately extend through the development to connect to Vixies Road. Amended plans detailing the requirements must be submitted prior to the commencement of works.

Erosion and Sediment Control

- 12. During construction the contractor must implement a suitable dust management strategy to minimise dust nuisance on adjacent properties. Details of the dust management strategy must be incorporated into the erosion & sediment control strategy and be noted on the contractors ESC plan.
- 13. Upon completion of earthworks and prior to Works Acceptance all exposed surfaces are to be treated. Temporary ESC measures must remain in place during construction and until the site is stabilised to prevent sediment entering the open drains or properties.

All reasonable and practicable measures must be taken to prevent pollution to the existing creek, waterways or drainage lines, as a result of silt run-off, oil and grease spills from any machinery. Wastewater for cleaning equipment must not be discharged directly or in-directly to any watercourses, stormwater systems or private properties.

Drainage and Vegetation

14. The alignment of the east / west drainage line adjacent the southern boundary of the site must be investigated and re-positioned to the extent necessary to protect and preserve the band of significant vegetation located adjacent the southern boundary.

Further investigations are to be reflected in amended drainage plans which detail the alignment of the re-positioned drain and the location of significant vegetation. The alignment of the drain must be pegged and ground-truthed by Council Officers prior to the commencement of works. The amended plans are to also consider access for future maintenance purposes.

APPROVED PLANS AND SPECIFICATIONS:

Generally in accordance with the following drawings submitted by PDR Engineers subject to any alterations made by conditions of Development Permit for Operational Work OP 4332/2011.

Drawing Description	No	Rev
Cover Sheet & Locality Plan	10070-C01	В
Typical Sections Notes	10070-C02	В
Allotment Grading & Earthworks Plan	10070-C03	В
Roads & Stormwater Drainage Plan	10070-C04	В
Snapper Island Drive – Longitudinal Section	10070-C05	В
Snapper Island Drive Cross Sections 1/2	10070-C06	В
Snapper Island Drive Cross Sections 2/2	10070-C07	В
Longitudinal Section – Road B	10070-C08	В
Cross Sections Road B 1/2	10070-C09	В
Cross Sections Road B 2/2	10070-C10	В
Intersection Details	10070-C11	В
Drain 1 – Longitudinal Section	10070-C12	В
Drain 1 Cross Section 1/2	10070-C13	В
Drain 1 Cross Section 2/2	10070-C14	В
Drain 2 Longitudinal Section	10070-C15	В
Drain 2 Cross Sections	10070-C16	В
Stormwater Catchments	10070-C17	В
Erosion Sediment Control Strategy	10070-C18	В
Water Reticulation Plan	10070-C19	В
Control Line & Earthworks Setout	10070-C20	В

EROSION AND SEDIMENT CONTROL DRAWINGS

The following drawings must form the basis of the contractor's Erosion and Sediment Control Plan in accordance with the *FNQROC Development Manual*, Clause CP1.06.

Drawing Description	No	Rev
Erosion Sediment Control Strategy	10070-C18	В

For information relating to the *Sustainable Planning Act* 2009 log on to www.dilgp.qld.gov.au. To access the *FNQROC Development Manual*, Local Laws and other applicable Policies log on to www.douglas.qld.gov.au.

RIGHTS OF APPEAL

Attached

End of Decision Notice

Att Appeal Rights

Pre-Start Meeting Template
Approved Drawings, Appendix A
Standard Conditions, Appendix B
Referral Agency conditions – Appendix C

APPENDIX A: APPROVED DRAWINGS



DRAWING LIST:

COS - SNAPPER ISLAND DRIVE - LONGITUDINAL SECTION

COT - SNAPPER ISLAND DRIVE - CROSS SECTIONS SH. 2 OF 2

COB - ROAD 'B' - LONGITUDINAL SECTION

C10 - ROAD '8 - CROSS SECTIONS SM. 2 OF 2

C11 - INTERSECTION DETAILS

C17 - STORMWATER CATCHMENTS

CIP - WATER RETICULATION PLAN

PRELIMINARY



WONGA BEACH VILLAGE PTY. LTD.

PROPOSED SUBDIVISION STAGE 1A SNAPPER ISLAND DRIVE WONGA BEACH

WONGA BEACH VILLAGE

PTY. LTD.

PROPOSED SUBDIVISION

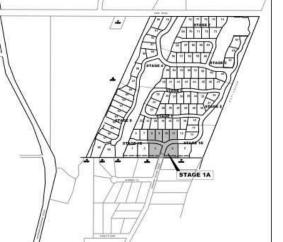
STAGE 1A

SNAPPER ISLAND DRIVE

WONGA BEACH

COVER SHEET LOCALITY PLAN DRAWING LIST

GCH 10070-C01



CO1 - COVER SHEET

CO2 - TYPICAL DETAILS & NOTES

CO3 - ALLOTMENT GRADING/EARTHWORKS PLAN

CO4 - ROADWORKS & STORMWATER DRAINAGE PLAN

CO6 - SNAPPER ISLAND DRIVE - CROSS SECTIONS SH. 1 OF 2

CO9 - ROAD '8' - CROSS SECTIONS SHL 1 OF 2

C12 - DRAIN 'T' - LONGITUDINAL SECTION

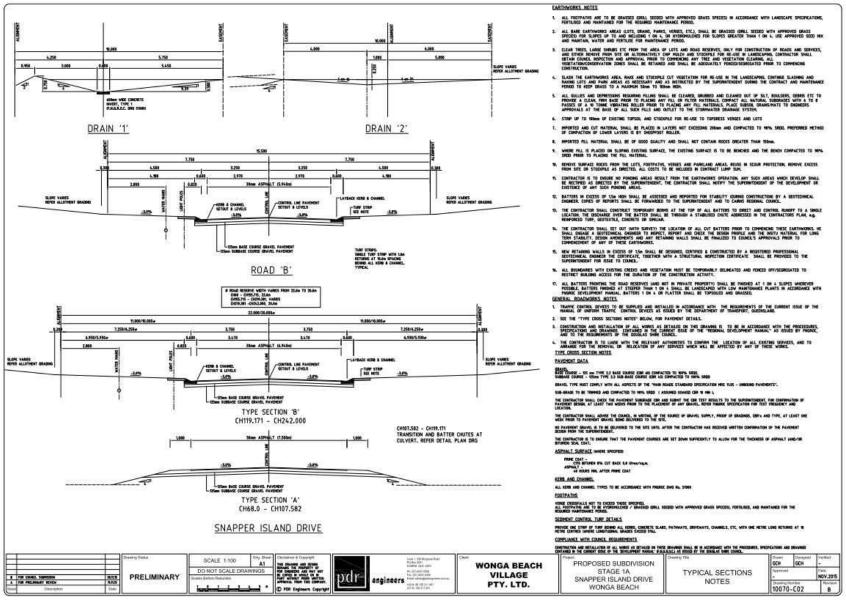
C13 - DRAIN '1' - CROSS SECTIONS SHL 1 OF 2

CIG - DRAIN "I" - CROSS SECTIONS SH. 2 OF 2

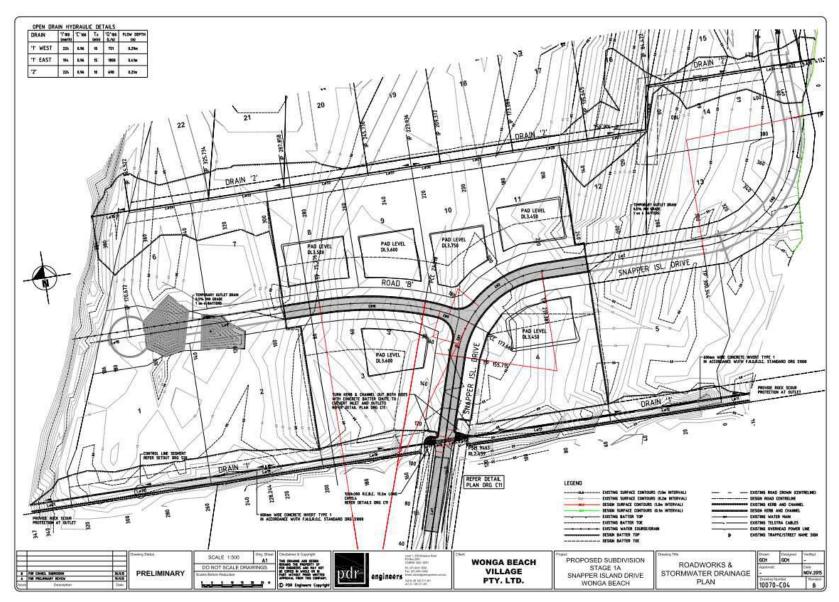
C16 - DRAIN '2' - CROSS SECTIONS SH. 1 OF 2

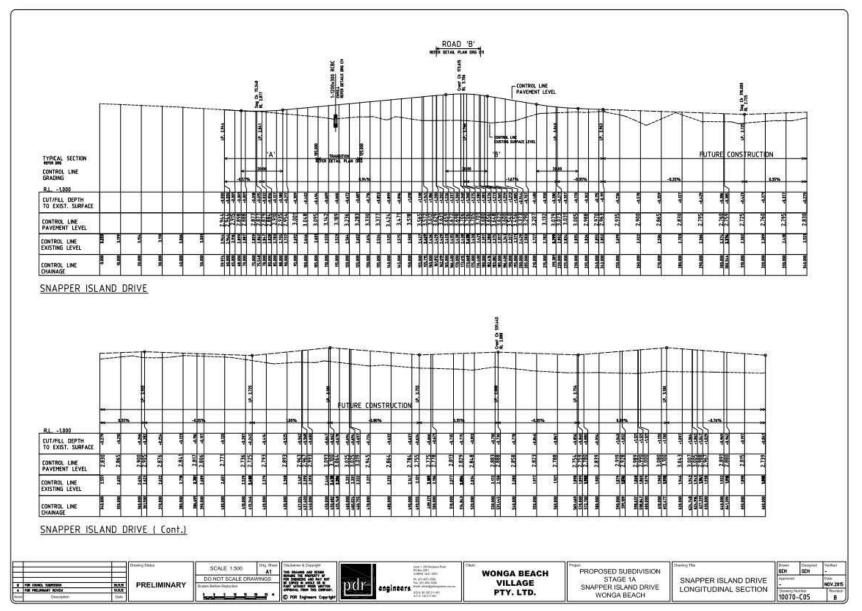
C18 - EROSION SEDIMENT CONTROL STRATEGY

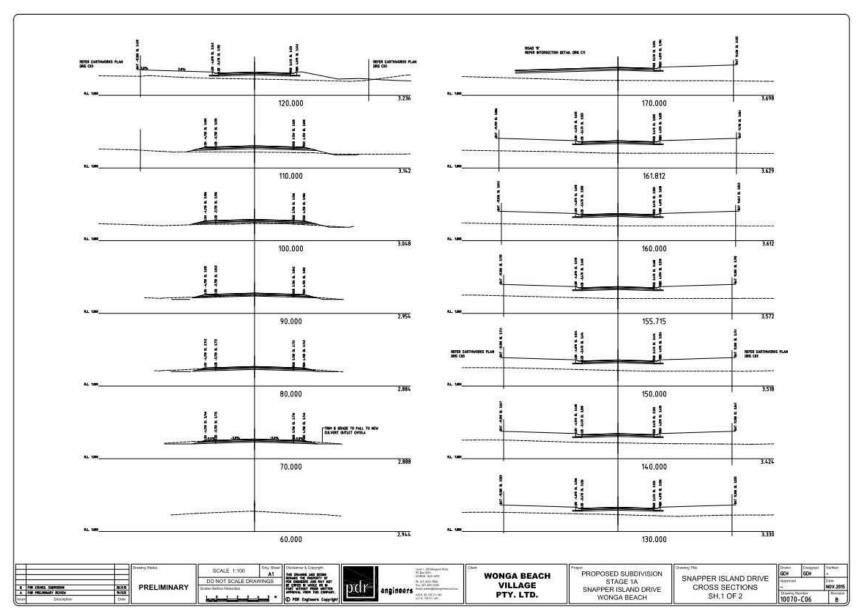
C20 - CONTROL LINE & EARTHWORKS SETOUT

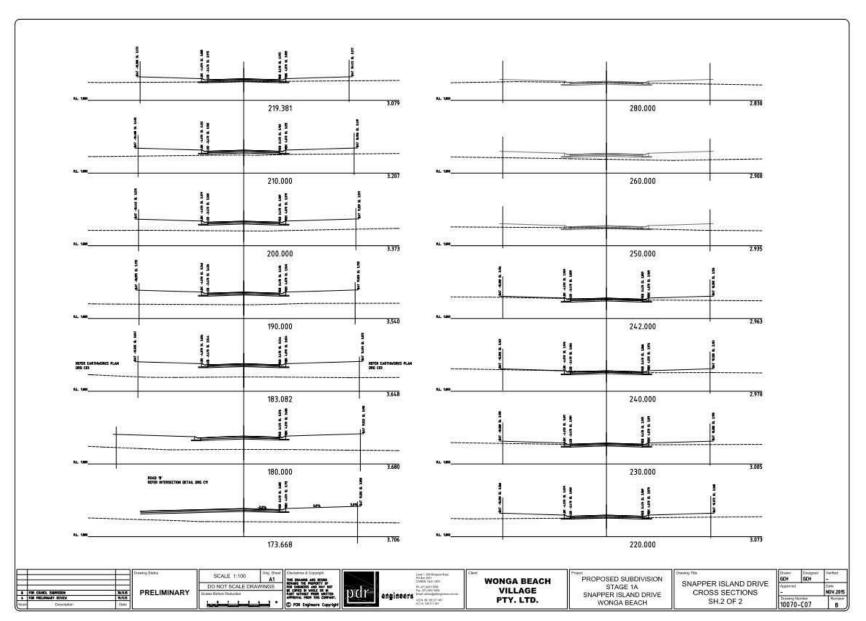


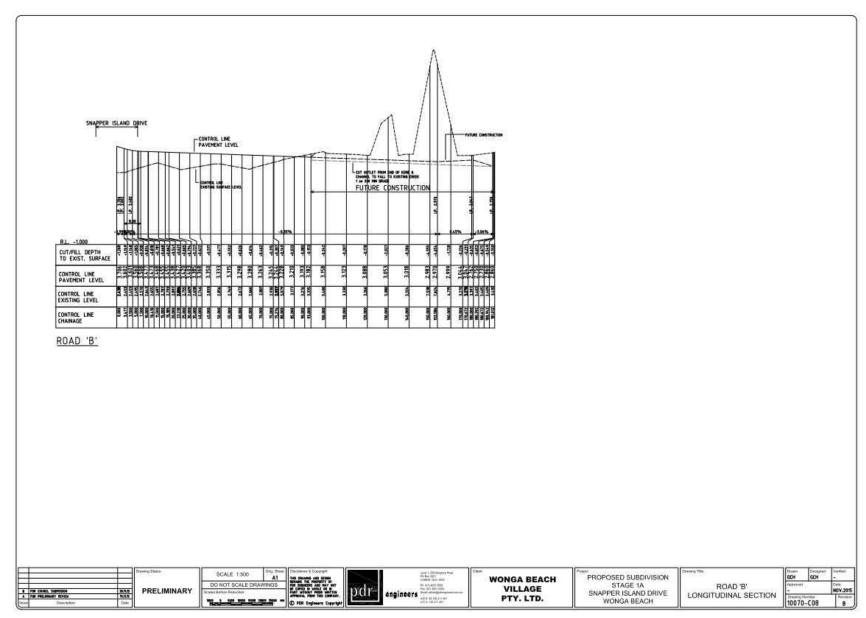


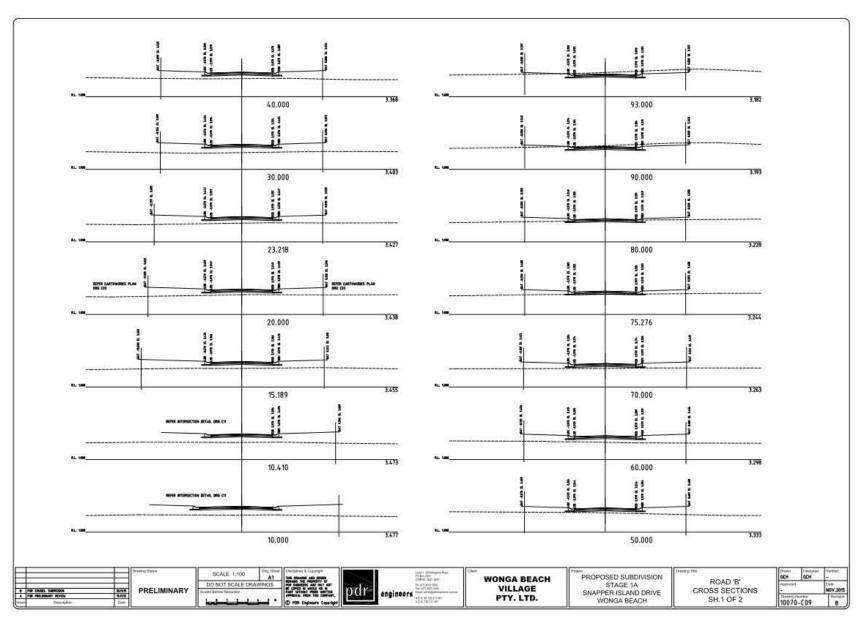


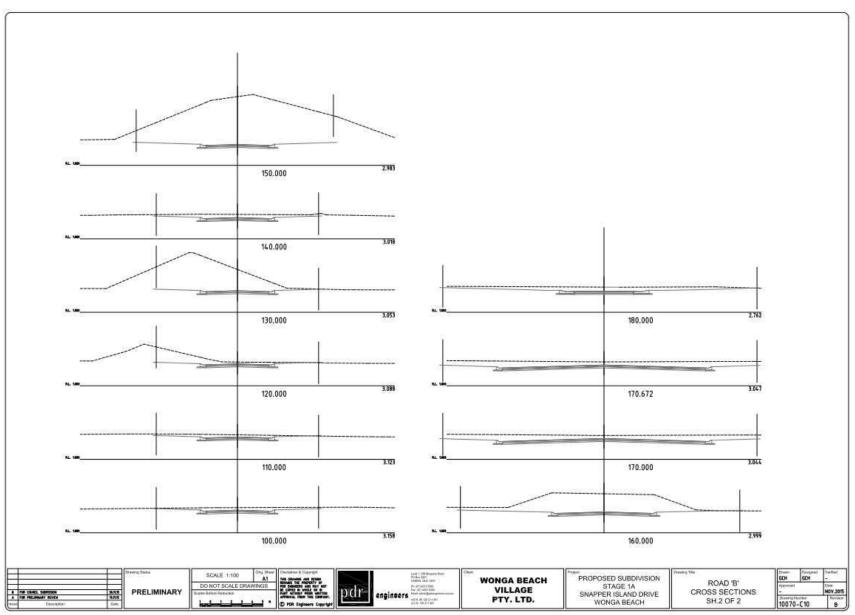


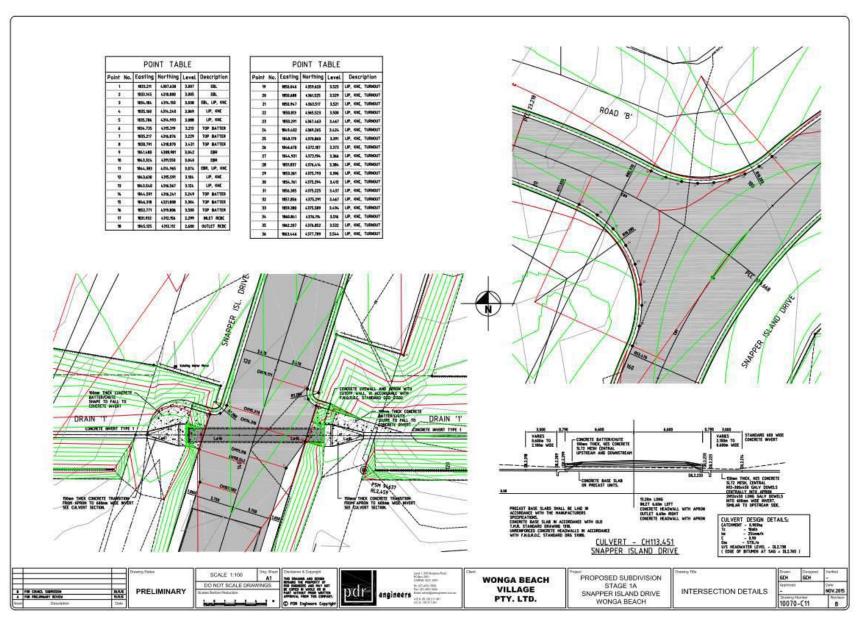


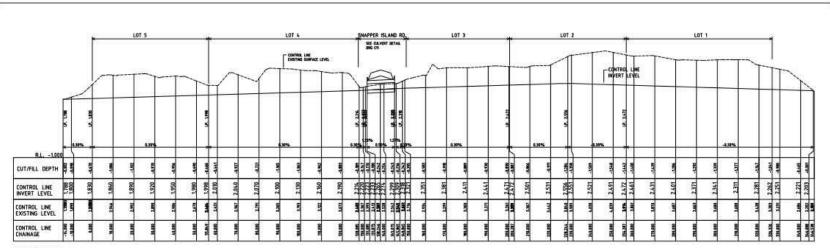






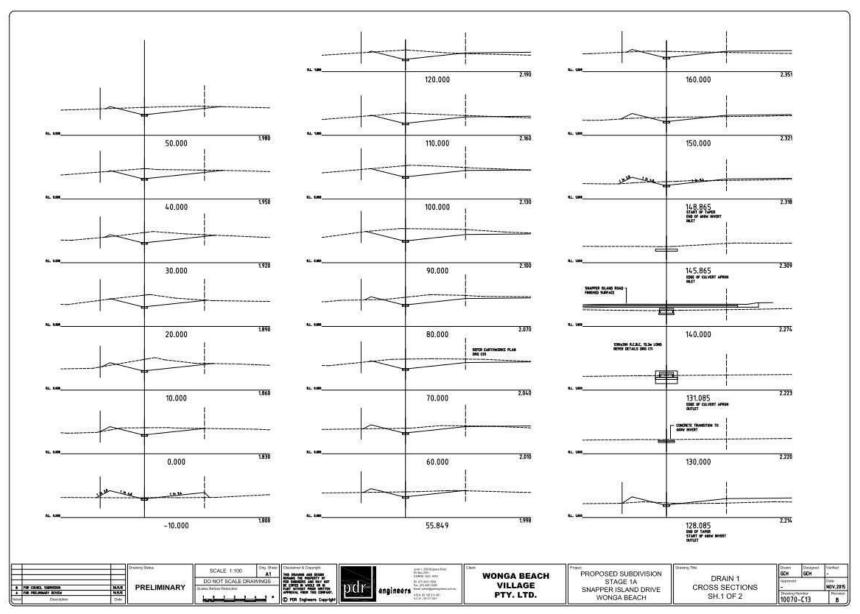


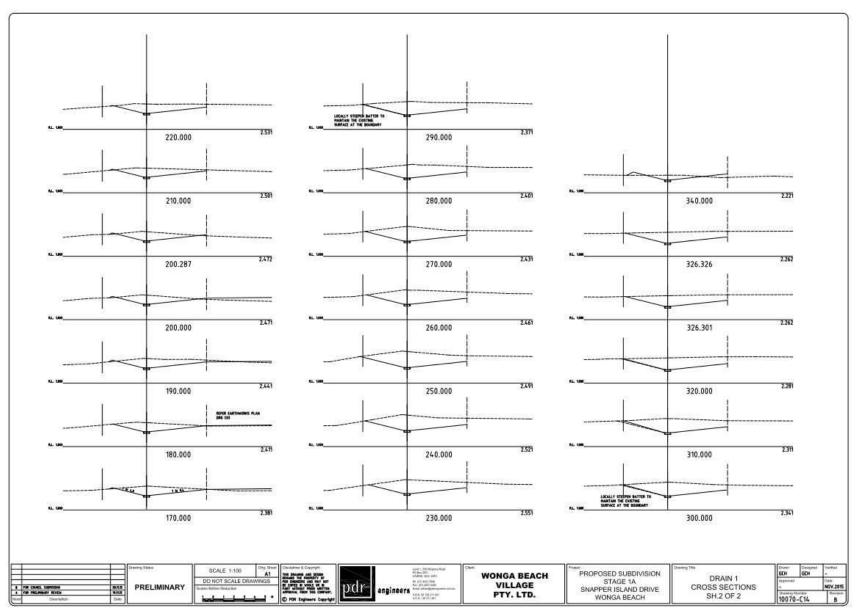


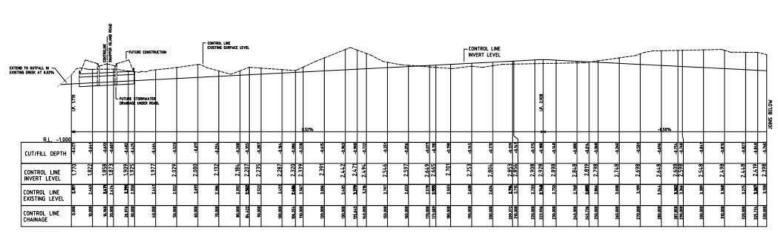


LOT DRAIN 1

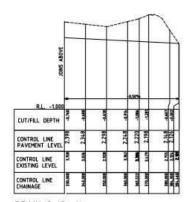






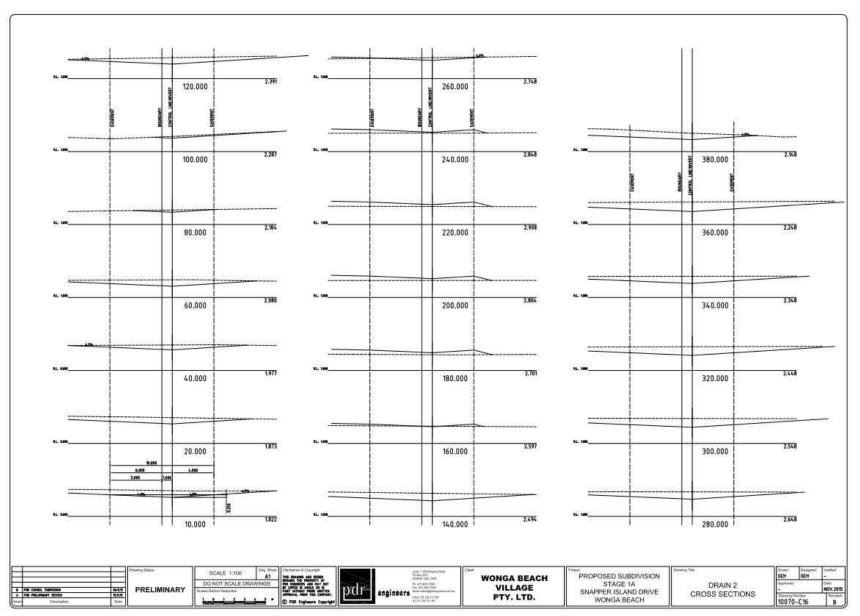


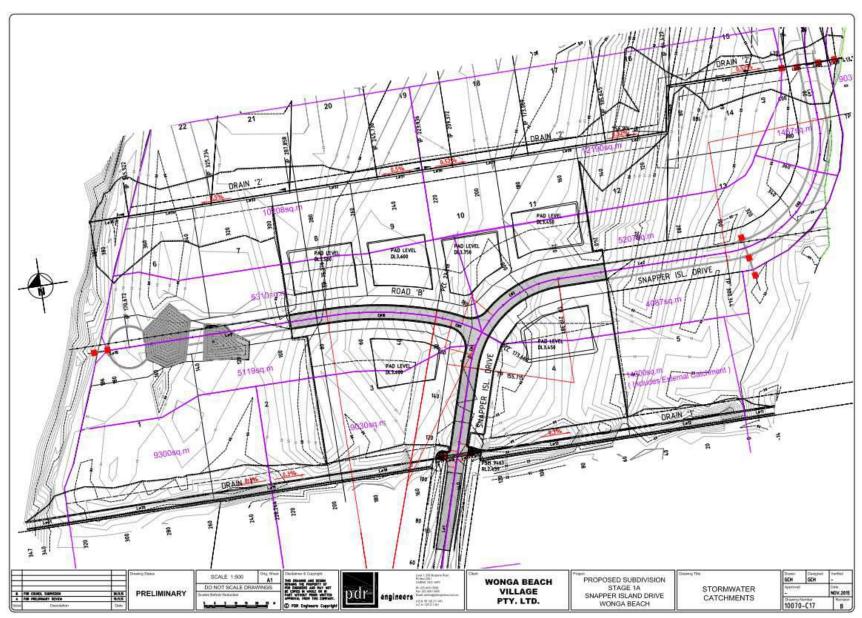
DRAIN 2



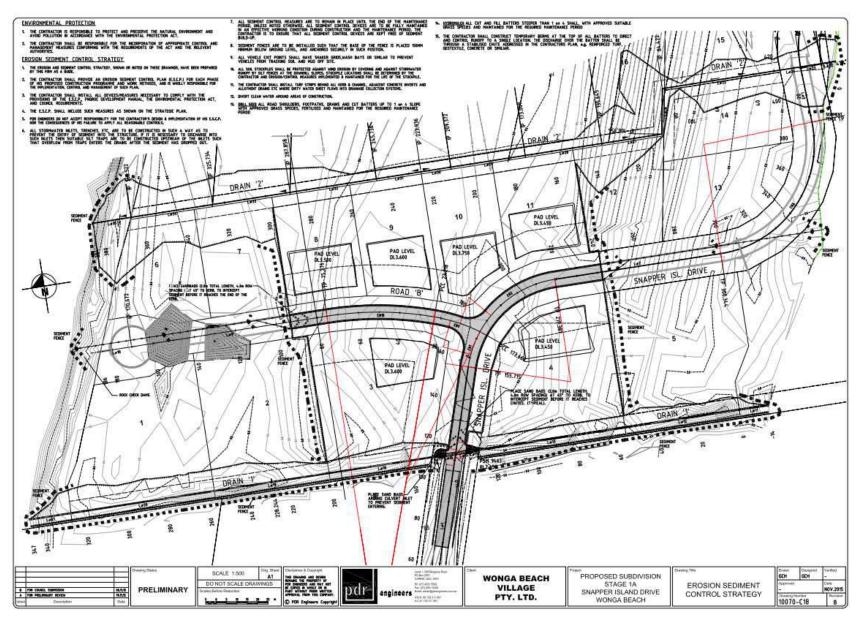
DRAIN 2 (Cont)

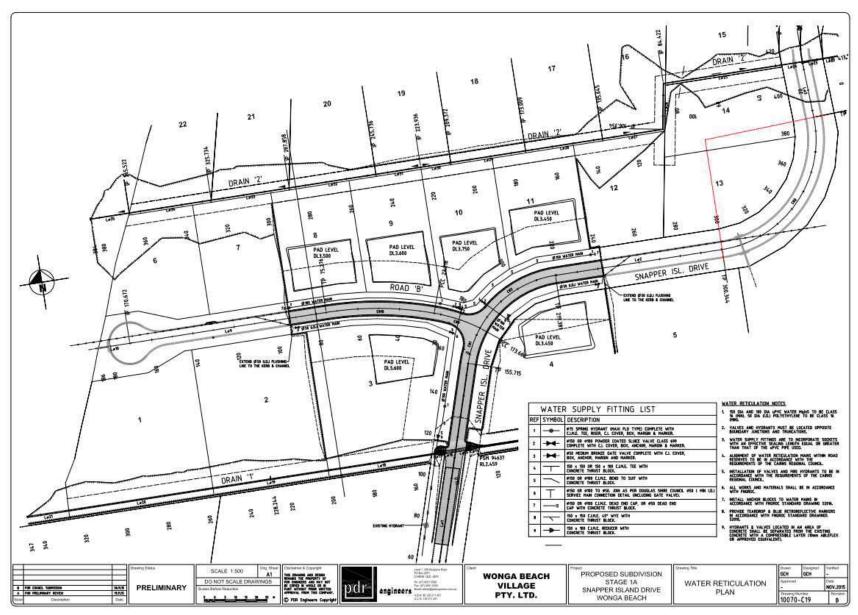
E		Drawing Slebin	SCALE 1:500	(Ing Sheet A1	Disclarer & Copyright THE DAMES AND DEEDS		Janis I. 280 Malgroon Front Wil Bay (2011) CAMMINI CALL MEDIO	WONGA BEACH	PROPOSED SUBDIVISION	Charles Title	GCH Thrown	GCH Congress	YerRed -
	FOR COLNECT SUBMISSION 39.51.5	PRELIMINARY	DD NOT SCALE DRAN Scales Betto Poductor	VINGS	FOR DESIREDES AND THAY NOT BE COMES IN WHOLE OR IN PART WITHOUT PRICE WHITTEN	ndr	No. (ET-401 1000 Two (ET) (ES) (AND Stand and the Opportune on Column	VILLAGE	STAGE 1A SNAPPER ISLAND DRIVE	DRAIN 2	Accompan		NOV.2015
Print	POR PREJUDENT POWER DATE DATE		1444	۳.	BE COPED IN WICE ON IN- PART WITHOUT PRICE WESTERN APPROVIS, PRICE THE COPPOSE. (D) FOR Engineers Coppright		POW MICHIGAN	PTY. LTD.	WONGA BEACH	LONGITUDINAL SECTION	10070	-C15	B





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Number		Chainage	Easting	Northing	Radii/A Value	Bearing
Let	Stort	0.000 155,715	1804.915	4203.776 4352.498	- Tatoe	17"14"09" Shraight
Cel	Shart End P Co-ords	155,715 173,668 164,789	1851.954 1859.384 1853.743	4352.498 4368.334 4368.395	50,000	17"14"89" Are 17"14"89" Are
C#2	Start End P Co-ords	173,468 279,381 198,262	1859,364 1898,976 1874,383	4368.334 4387.682 4387.364	50.900	57"A8'35" Arc 99"11'30" Arc
Let	Steri	279.381 300.344	1898,936	4387,482 4387,410	. 12	10"11'30" Straight
(e)	Start End P Co-ords	300.344 386.691 356.367	1979,638 2833,308 2835,962	4387.411 6443.184 4367.224	53.250	99"11"30" Are 35""11"04" Are
Les	Stort	396,691 413,246	2693,308 2692,050	6443.184 6469,789	72	357"17'94" Straigh
Cot	Start End P Co-ords	419,246 450,662 432,606	2692,950 2943,372 3691,122	6449,769 6584,548 6489,266	51,750	357"1701" AN
C#5	Start End P Co-ords	450,482 455,148 452,917	2943,372 2046,319 2044,770	4584,540 4507,899 4506,389	51.758	38,73.28. WE
Let	Shart End	455,148 499,171	2044.349 2074.715	4507,899 4539,738	- E	43"40'36" Straight
Cat	Start End P Co-ords	499,171 514,843 587,818	2076.715 2687,083 2682.129	4539,738 4551485 4545,469	200,000	13,16,36, W.E
Les	Stort End	594,843 572,700	2687.083 2523.646	4551485 4596,338	- SE	39°11'3° Straight
C+1	Start End P Co-ords	572,700 591,909 582,010	203,446 200,444 2029,523	4596,333 4612,395 4663,545	\$3,000	39"17"13" Arc 18"05'33" Arc
Let	Start End	551,909 612,477	2139,414 2139,658	4412.395 4432.767	; <u>≅</u>	18*05'33* Straight
Let	Stert End	612.477 627,235	2139,058 2143,631	4432.767 4646,731	- 85	18*05'33* Straight
Cell .	Start End P Co-ords	627,235 641,399 636,363	2143.818 2145.868 2145.846	4444.731 4453.600 4453.500	53,530	34-16-92, Vic
Let	Start End	640,000	2549,948 286,357	4459.400 4674.761	79	34*19'49" Stroight
			RO.	AD 'B'		
Number		Chainage	Easting	Northing	Radii/A Value	Bearing
Let	Start End IP Co-anda	8,600 23,210 11,691	1859.306 1838.699 1849.771	4368,334 4378,852 4375,999	90,000	305"21"N" Are 200"N3"31" Are
Cell	Start End IP Co-ords	23.218 75.216 69.479	1013.699 1787.566 1813.627	4378.852 4387.321 4387.282	160,000	200°43'31" Are 210°45'40" Are
Let	Start End	75.276 170.672	1707.566 1692.170	4387.321 4387.459	:5	276"65"E0" Straight
Lett	Start End	170,672 195,854	1692,170	4387,459		zzeros eer Straigh

			DRAIN	'1'	
Number		Chainage	Easting	Northing	Bearing
Lett	Start End	-14,000 0,000	1991,006 1977,006	4311,622 4311,668	Z76"TF36" Straigh
Letz	Start End	0.00E 55,849	1977,006	43M,468 43M,655	ZISTITSET Straigh
Lett	Sturt	\$5,849 \$28,985	1921.157 1846.921	43M,855 4312,097	270'11'50' Straigh
Less	Start	120.085 131.085	1868.921	4312.097 4312.007	270°TT30" Straigh
Lets	Start	131.085 130.244	1845.921 1858.761	4312.107 4312.131	278*9730" Straigh
Lets	Stort	198.246 145.865	1838.761 1831.762	4312.191 4312.194	270"1730" Straigh
L#17	Stert	145.865 148.865	1631.5k2 1628.1k2	4312.84 4312.84	276°9730° Straigh
Lett	Start	1AE 865 200,387	1828.14.2 1774.729	4312.164 4312.338	276"W'10" Straigh
Lett	Start	200,287 256,287	1776,728	4312,338 4312,526	276°TT30" Straigh
L#19	Start	256,287 336,326	1720,720 1650,682	4312,526 4312,760	270'W30' Straigh
Lett	Start	325.326 346.538	1656,682 1636,470	4312,360 4312,826	275°W30" Straigh
	_		DRAIN	'2'	
Number		Chainage	Easting	Northing	Bearing
L#22	Start	6,933	2942.850	4470.328	270"05"00" Straigh
L#23	Start End	6,939 16,962	2842,850 2832,024	6470,328 6470,335	270°05'00" Straigh
1.02%	Start End	16,960 26,976	2032,024 2022,000	4470,395 4470,349	270"05"00" Straigh
L+25	Start End	26,976 84,422	2022,008 1964,562	4478,369 4478,433	270"05"06" Straigh
Lett	Start End	BL.422 196.354	1964.562 1966.842	4478,433 4448,819	189"45"48" Straigh
L#27	Start End	196,954 195,645	1968.842 1931.551	4448.861	270°05'00" Straigh
L#28	Start	195,645 173,809	1991,551	LLLE.961 LLLE.916	270"05"00" Straigh
L#29	Start End	173,009 209,372	1894,188	LLLE 916 6440,769	270°05'00" Straigh
L#30	Start End	209.372 223.996	1957,824 1943,261	1448,965 1448,990	270°05'00" Straigh
Lell	Start End	223.996 265.736	1843.261 1821.441	4448.990 4448.821	270705100" Straigh
Lett	Start End	245,736 287,858	1021,441 1779,338	4449.003	270°05'00" Straigh
Le33	Start	287.858 325.734	1779,338 1741,463	4449,003 4449,198	270105100" Streigh
Lelk	Start End	325.734 365.522	1741.463 1701.674	4447.198 4447.196	270°05'00" Straigh
Le35	Stort	M5.522	1701474	6649,223	270°05'00". Straigh

CONTROL LINE SETOUT

Point No.	Easting	Northing	Level	Description
17	1776.439	4318.509	3.362	LOT GRADOUS LEVEL
*	1795.301	4319,709	3.95	LOT GRADING LEVEL
39	WN. N2	4321329	3.248	LOT GRADOUS LEVEL
40	1819.779	4340.144	1475	LOT GRADOUS LEVEL
41	1825,836	4358,959	3.781	LOT GRADOUS LEVEL
42	1018.015	A360.900	3,676	LOT GRACONS LEVEL
43	1606.492	4362,919	3,439	LOT GRADING LEVEL
44	1792.544	4364.901	3,602	LOT GRADING LEVEL
45	1787.256	4364.571	3.564	LOT GRADING LEVEL
46	1776.584	4364.587	3.527	LUT GRADOUS LEVEL
47	1055,479	4317.825	2.7%	LOT GRADING LEVEL
40	1860,357	4333.547	2,930	LOT GRADOS LEVE
44	1864,911	4348,228	3,473	LOT GRADING LEVEL
50	1866,471	4351,375	3.700	LOT GRADING LEVEL
51	1967,518	4360,767	3,924	LOT GRADING LEVEL
52	1876,625	4369,812	3,769	LOT GRACING LEVEL
53	1921.627	4362,686	3.302	LOT GRADING LEVEL
54	1921,590	4351,375	2.934	LOT GRADING LEVEL
55	1893,916	4351375	3,026	LOT GRADING LEVEL
56	1921,177	4317,695	2.590	LOT GRADOG LEVE
57	1899.217	4317,679	2,663	LOT GRADING LEVEL
58	1877,257	4317.752	2,729	LOT GRADING LEVEL
59	1749.875	4410.046	3,485	LOT GRADOS LEVEL

Point No.	Easting	Northing	Level	Description
60	1795.769	4490.059	1.576	LOT GRADING LEVEL
61	1810,035	4400.005	1.626	LOT GRADING LEVEL
62	1822,986	4496.711	3.472	LOT GRADING LEVEL
63	1835,737	4423.600	1.784	LOT GRADING LEVEL
44	W48.995	1399.760	1.8%	LOT GRADING LEVEL
65	1053,670	4397,584	3.547	LOT GRADING LEVEL
66	1859,638	4482.025	3.855	LOT GRADING LEVEL
	1072,387	4408.238	1.705	LOT GRADING LEVEL
68	1889.005	6412.7%	3.5%	LOT GRACING LEVEL
	1917.508	6417.628	3.380	LOT GRADING LEVEL
21	1917.552	4442.887	2.7%	LOT GRADING LEVEL
n.	1677,742	4442540	3,000	LOT GRADING LEVEL
72	1843.252	4442,990	3.178	LOT GRACING LEVEL
73	1898,252	4443,041	3.003	LOT GRADING LEVEL
74	1769,923	4443.096	2,812	LOT GRADING LEVEL
75	1769,991	4448.296	2.683	LOT GRADING LEVEL
26	1898,259	4448,841	2,795	LOT GRADING LEVEL
77	1843.259	4447,990	2.970	LOT GRADING LEVEL
78	1877,750	6447,948	2.792	LOT GRADING LEVEL
79	1917,559	4447.882	2.586	LOT GRADING LEVEL
**	1898,202	4408,946	3.625	LOT GRADING LEVEL
et	1843,191	6405398	3.851	LOT GRADING LEVEL
12	1877,694	4439,648	3,644	LOT GRADING LEVEL

LOT GRADING SETOUT & LEVELS

			Drawing Status
	noe causci, supersoon	30,05	PRELIMINARY
A	FOR PROLEDINARY REVEN	11.71.8	111221111111111111111111111111111111111
	Description	Plane	II.

•	SCALE 1:500	CHS SPee
	DO NOT SCALE DRA	WINGS
	Scares Baloni Streuctice	
		<u>.</u>







PROPOSED SUBDIVISION STAGE 1A SNAPPER ISLAND DRIVE WONGA BEACH

CONTROL LINE & EARTHWORKS SETOUT

APPENDIX B: STANDARD CONDITIONS

General

- 1. The proposed works are permitted subject to any alterations:
 - a. found necessary by Chief Executive Officer at the time of examination of Engineering drawings or during construction of the works because of particular engineering requirements and.
 - b. to ensure the works comply in all respects with the requirements of the *FNQROC Development Manual* and good engineering practice; and
 - c. to comply with project specific conditions and the following standard conditions of approval.

All works must be carried out in accordance with the approved plans, conditions and specifications, to the requirements and satisfaction of the Chief Executive Officer.

- 2. The conditions of any Reconfiguration of Lot or Material Change of Use permits applicable to the subject lot or lots shall be complied with in conjunction with this development permit.
- Council's examination of the documents should not be taken to mean that the
 documents have been checked in detail and Council takes no responsibility for their
 accuracy. If during construction, inadequacies of the design are discovered, it is the
 responsibility of the Principal Consulting Engineer to resubmit amended plans to Council
 for approval and rectify works accordingly.
- 4. Notwithstanding any approval given to engineering documents, where a discrepancy occurs between these documents and Council's standards, then Council's standards shall apply. All works must be performed in accordance with Council standards and Local Laws and other statutory requirements.
- 5. If in fact there are errors, omissions or insufficient detail on the plans for the purpose of construction, these deficiencies shall be made good during construction and Council reserves the right to withhold approval of construction until such deficiencies are made good to its satisfaction.
- 6. Work and or Technical Documents identified within these Development Approval Conditions are nominated as requiring Compliance Assessment under section 398 of the Sustainable Planning Act 2009. In particular As-Constructed Water, Stormwater and Sewerage Plans must be submitted to the Compliance Assessor (Douglas Shire Council) on the approved form (Form 32) and will be assessed against the provisions of Council's FNQROC Development Manual. Council must issue a Compliance Certificate for the assessable documents prior to granting Early Plan Sealing or Plan Sealing of a Subdivision Plan or the issue of a Works Acceptance Certificate, whichever occurs first.

Timing of Effect

7. The conditions of this development permit must be effected prior to the approval and dating of the survey plan, except where specified otherwise in these conditions of approval, or at Council's discretion.

Easement Documentation

8. Easement documents are to be submitted to Council's solicitors for checking in accordance with the conditions of the Reconfiguration Development Permit. Contact Council for current nominated solicitors details.

Portable Long Service Leave Notification

9. As per the QLeave – Building and Construction Industry Authority Guidelines, if the works are over \$80 000, Council must sight a copy of the receipted Portable Long Service Notification and Payment form prior to commencement of work.

Construction Security Bond

10. Lodgement of Construction Security Bond as per the FNQROC Development Manual, Section CP1.07, (ie, five (5) per cent of the value of the works) is required, prior to commencement of work. The bond shall be in favour of Council and in the format of cash or an unconditional bank guarantee, which must cover all aspects of the construction and have no termination date.

Third Party Agreement

11. The developer must obtain written agreement from third parties and/or Referral Agencies for any works proposed on adjacent properties. The agreement(s) must be provided prior to the associated works commencing on site. All agreements must be available for Council scrutiny, upon request.

Commencement of Works

12. Council is to receive written Notice of Intention to Commence Works and all matters relevant to the Pre-Start meeting are to be attended to in accordance with Section CP1.07, CP1.08 and Section CP1.09, of the *FNQROC Development Manual*.

Hours of Work

- 13. Work involving the operation of construction plant and equipment of any description, shall only be carried out on site during the following times:
 - a. 7:00 am to 6:00 pm, Monday to Friday;
 - b. 7:00 am to 1:00 pm, Saturdays; and
 - c. no work is permitted on Sundays or Public Holidays.

Any variations to the above working hours must be authorised by the Chief Executive Officer, prior to the commencement of such works.

Public Notification of the Works

- 14. The developer or the nominated representative must provide:
 - a. Public notification of the development in local newspapers in accordance with Section CP1.11 of the *FNQROC Development Manual*.

b. Signage identifying the location of the project, general allotment layout, contact numbers (including out-of-office hours emergency numbers) must be provided at all entrance points to the development. All signage must be appropriately positioned, prior to the commencement of any works on the site.

Site Inspections

15. Council requires a number of major inspections to be completed as Witness and Hold Points for Consulting Engineers and Council officers during the construction of the works. Inspections undertaken during construction shall be in accordance with Section CP1.16 (Inspection and Testing) of the FNQROC Development Manual. These Witness and Hold points are to be included in the contractors Inspection and Test Plan (ITP) and be made available for inspection, prior to the commencement of any works on the site.

Soil and Water Management

- 16. All works must be in accordance with Section CP1.13 and D5 of the *FNQROC Development Manual*, and must comply with the following:
 - a. A copy of the contractor's Erosion and Sediment Control (ESC) Plan is to be submitted to Council and endorsed by the Consulting Engineer, prior to commencement of any works. In particular, the ESC Plan must address the Institution of Engineers' Australia Guidelines for Soil Erosion and Sediment Control and the Environment Protection (Water) Policy and Clauses CP1.06, CP1.13 and D5.10 of Council's FNQROC Development Manual. The ESC Plan must be relevant to all phases of the construction and be updated where necessary as works progress.
 - b. Any dewatering activities will require approval from Council's Environmental Protection Unit, telephone number 07 4099 9475 and a valid permit obtained prior to commencement.
 - c. During the construction period, the Consulting Engineer shall randomly audit and inspect ESC measures for compliance with the Engineer endorsed contractor's ESC Plan, derived from the Engineer's ESC Strategy (As per *FNQROC Development Manual* CP1 Appendix A).
 - d. It is the contractor's responsibility to ensure that the ESC Plan is updated and amended to reflect any changes in the construction methodology. All such amendments shall be approved by the Engineer and presented to Council.
 - e. The developer shall be held responsible for any rectification works required to clean up dust, pollutants and sediments that may leave the site as a result of construction activities.
 - f. The developer or their representative shall be responsible for communicating with third parties affected by any dust, pollutants or sediment leaving the site as a result of any construction activity that is associated with the project site.

Street Lighting

17. The provision of street lighting is to be in accordance with the *FNQROC Development Manual* D8 and designed to comply with the Road Lighting Standard AS/NZS 1158, a compliance certificate that has been certified by an appropriate Registered Professional Engineer of Queensland (RPEQ) must be provided to demonstrate the lighting design

complies to the requirements of the Road Lighting Standard AS/NZS 1158. New street lighting is to be erected as a Rate 2 public lighting installation, Rate 1 will only be considered where an overhead electricity reticulation exists:

- a. Lighting columns, luminaires and lamps are to be of a type specified in Ergon Energy's *Lighting Construction Manual*, unless approved otherwise by Council.
- b. The applicable lighting category for roads associated with this project having a road hierarchy of residential access and above is identified in Table D8.1 of the FNQROC Development Manual.
- c. Local Area Traffic Management (LATM) devices including roundabouts, must be provided with an illumination of not less than 3.5 Lux as specified in the Road Lighting Standard AS/NZS 1158.
- d. Street lighting located adjacent to the development frontage must be located behind the kerb (usually a minimum of 820 mm from the invert of the kerb) and spaced to meet the required lighting category for the road.

Infrastructure Plans for Utility Services

18. Approved infrastructure plans for gas, electrical and telecommunications services must be endorsed by Council, prior to the commencement of associated works.

Landscaping General

- 19. Landscaping shall be provided in accordance with Part D9 and Part S8 of the *FNQROC Development Manual*, unless approved otherwise by Council.
- 20. The landscaping works must be constructed in accordance with the approved plans and conditions. The developer must seek approval in writing from the Council for any changes to the plan or the landscaping works on the site. This approval must be obtained prior to commencement of these works on site.
- 21. The landscape must be maintained in good order by the developer for at least three (3) months during the Works Acceptance period, and generally timed to coincide with the Final Works Acceptance Inspection, when all landscaping works must be in a condition suitable for Council to commence regular maintenance.

Trees

- 22. Any trees must be planted and staked in accordance with the *FNQROC Development Manual* drawing S4210, with root barriers installed such that they are just visible at the finished surface level. Note that where footpaths are to be provided, a root barrier must also be provided between the tree and the path. Root barriers must be installed and appropriate topsoil, level of compaction and drainage provided, as specified by the manufacturer.
- 23. Street tree planting locations must be in compliance with *FNQROC Development Manual* D9.07.6 'Alignment and placement of Street Trees'. Trees shall be positioned a minimum of:
 - a. 7.5 metres from streetlights;
 - two (2) metres from the inlet or outlet of stormwater pipes;

- c, three (3) metres from any driveways;
- d. ten (10) metres back from the apex of both boundaries of a corner lot;
- e. 0.8 metres one (1) metres from the back of kerbs.
- 24. All trees must be watered directly after planting and prior to laying mulch. The mulch must be left clear of the trunk and be laid in accordance with *FNQROC Development Manual* drawing S4210 and S8.14, at a radius of 0.5 metre around the base of the tree and out to the back of kerb.
- 25. All trees must be of good vigour and health and must not be root-bound at the time of planting. They should be approximately 1.5 metres two (2) metres tall with well-established root and branch formation. Trees should have a clear dominant central leader.
- 26. A joint site inspection is to be held with Council officers and developer's representative to assess the general condition of any existing trees and shrubs within six (6) metres of any property boundary abutting the road reserve, or other Council land. If any dead, dying or dangerous trees are identified during the meeting, with the landowner's consent, they are to be removed to the satisfaction of Council officers, prior to the sealing of plans for the associated lot.
- 27. Any trees identified on drawings to be retained, are to be protected in accordance with approved plans. This must include, but is not limited to, the erection and continued maintenance of suitable physical barrier(s) placed around the tree to protect the tree and the root system. Additional protection of tree trunks by the fixing of timber planks using wire loops is also required unless approved otherwise by Council. Any damage caused to nominated trees as a result of construction activity, will require inspection by Council and will require a specified number of suitable replacements trees of suitable maturity to be provided to replace the loss in amenity.

Verges

- 28. All verges are to be covered full-width with topsoil (AS 4419/Soils for Landscaping and Garden Use) to a depth of not less than 40 mm, lightly compacted and grassed in accordance with Council's Guidelines and Specifications.
- 29. Any island beds or any shrub beds must have a permanent irrigation system installed, which must be connected to the Douglas Water Network. An Application for a Water Service Connection must be presented to Douglas Water & Waste to facilitate the connection, and must include the installation of a flow meter and associated valves.
- 30. All water reticulation, including permanent irrigation systems, are to be identified in asconstructed plans which must be submitted to Council for approval prior to the Works Acceptance (On Maintenance) meeting for landscaping.

Structures and Retaining Walls

31. Separate building certification and/or structural certification is required for any works to alter existing structures, provide new structures or construct retaining walls that are over 900 mm high. Certification by a suitably qualified engineer must be provided, prior to opening the work site to the public.

The Location of Stormwater Quality Interception Devices (SQIDs)

32. Council must approve the location of any SQIDs prior to installation. They shall be positioned to allow for economic and efficient maintenance operations, and will require a reinforced concrete hard standing area to be provided from the edge of the carriageway to the SQID location. Vehicular access from the public road reserve to the SQID must remain unrestricted.

Sewer and Water

- 33. All water and sewerage works must be in accordance with Sections D6 and D7 of the *FNQROC Development Manual*, and must comply with the following:
 - a. Douglas Shire Council requires a minimum of five (5) working days notice of intention to commence water and sewerage related works. The notice shall be given to the Senior Plumbing Inspector at Douglas Shire Council either in writing, by telephone 07 4099 9479, fax 07 4098 2902 or email to enquiries@douglas.qld.gov.au prior to the commencement of works.
 - b. The developer shall be responsible for confirming the location of all existing sewer, water and utility service infrastructure prior to the commencement of works on site. Any permits necessary to alter/interfere with such services must be obtained prior to the commencement of work and be available for Council inspection if required.
 - c. Any works over or within the zone of influence of Council's existing water and sewerage infrastructure must be approved by Douglas Shire Council prior to the commencement of the proposed works. Unless otherwise approved in writing, existing infrastructure impacted by the development shall be subject to the maintenance period provisions contained in this Decision Notice.
 - Construction works shall include any works that may impact on existing infrastructure such as, but not limited to, mobilisation of heavy earthmoving equipment, stripping and grubbing, site filling, stockpiling of materials and installation of erosion and sediment control measures.
 - d. All testing and acceptance of water and sewerage works shall be in accordance with CP1 Construction Procedures of the *FNQROC Development Manual*. Works are to be certified as acceptable by Douglas Water & Waste, and any operating manuals etc be provided to Council, prior to making an application for the acceptance of the works.

Sewer

- 34. Douglas Water & Waste must be contacted to perform any direct connection to live sewer mains. Unless otherwise approved in writing, separate applications for approval on the prescribed forms shall be made to Douglas Water & Waste for each connection together with payment of the relevant fee. All connections are to be provided subject to the terms and conditions of Douglas Shire Council's 'Application for Plumbing Works'.
 - a. Amended drawings in accordance with these conditions must be approved prior to the pre-start meeting.
 - b. The Inspection and Test Plan (ITP) must be approved prior to the pre-start meeting. At project completion the completed and validated ITP must be submitted and approved prior to the issue of a Works Acceptance Certificate.

- c. Where retaining walls are located within the zone of influence of a sewer the footings must be 1000 mm clear of the sewer and designed in accordance with the *Queensland Development Code*. Full design details and structural certification must be approved prior to commencement of works.
- d. Minimum clearances between sewer mains and other services must be in accordance with the *Sewerage Code of Australia*. Clearances must be included on the long-section drawing.
- e. Where a manhole is located in a batter, a flat area of 1.5 metres radius from the centre of the manhole must be provided. Where the manhole is located along a side or rear boundary and is on the 0.8 metre standard alignment then the flat area must be on at least three (3) sides.
- f. Where an easement is required the property connection branch must be extended at least one (1) metre from the easement boundary.
- g. House drains are to extend one (1) metre past the end of the driveway on hatchet blocks and 1.5 metres beyond the top of batters. An I.O. is to be provided at the downstream end of the house drain within one (1) metre of the boundary to delineate the end of the property connection branch.
- h. As-constructed sewerage drawings must be approved prior to granting of Early Plan Sealing or Issue of a Works Acceptance Certificate whichever occurs first. The as-constructed submission is to include the 'Statement of Compliance Asconstructed Documentation' and must be the final issue.

Water

- 35. Douglas Shire Council must be contacted to perform any direct connection to live water mains whether being as a permanent connection, a connection for irrigation purposes or for construction water. Unless otherwise approved in writing, separate applications on the prescribed forms shall be made to Douglas Shire Council for connections, together with payment of the relevant fee. All connections are to be provided subject to the terms and conditions of Douglas Shire Council's 'Application for a Water Service Connection'.
 - a. Amended drawings in accordance with these conditions must be approved prior to the pre-start meeting.
 - b. The Inspection and Test Plan (ITP) must be approved prior to the pre-start meeting. At project completion the completed and validated ITP must be submitted and approved prior to the issue of a Works Acceptance Certificate.
 - c. Minimum clearances between water mains and other services must be in accordance with the *Water Supply Code of Australia* in particular the minimum clearance between water mains and sewer mains must be 500 mm with the sewer under the water main.
 - d. As-constructed water drawings must be approved prior to Issue of a Works Acceptance Certificate. The as-constructed submission is to include the 'Statement of Compliance As-constructed Documentation' and must be the final issue.

Roads and Footpaths

36. All works are to be designed and constructed in accordance with AS 1428.1-2001:
'Design for access and mobility' – General requirements for access – New building work, and associated standard AS/NZS 1428.4 2002, 'Design for Access and Mobility' –
Tactile Indicators. The design is required to provide equal access for people with disability and include the provision of suitable ramps and landing areas and the installation of Tactile Ground Surface Indicators (TGSIs) where required.

Cultural Heritage

37. The Aboriginal Cultural Heritage Act 2003 (the Act) seeks to protect artefacts and cultural sites that are of significance to Aboriginal people. The Act requires anyone carrying out an activity to exercise a Duty of Care. Guidelines have been produced to enable assessment of sites under the Act. These are available from Department of Environment Heritage Protection and can be downloaded from their website at www.ehp.qld.gov.au. The work identified in the project documentation is likely to require assessment of the site under the Act.