

From: "Ben Battist" <ben.battist@i-plan.com.au>
Sent: 17/01/2018 11:40:44
To: "MCKENZIE Adam" <AMckenzie@goldcoast.qld.gov.au>; "City of Gold Coast mail" <mail@goldcoast.qld.gov.au>
Cc: "HOSSAIN Iqbal" <IHOSSAIN@goldcoast.qld.gov.au>; "MORRIS Adam" <ASMORRIS@goldcoast.qld.gov.au>
Subject: Additional Stormwater Information - MCU201701572 - 84-160 Christensen Road South Staplyton
Attachments: 20180116 17-209 RFI Reponse ROL.pdf, BEV417-C-DWG-014[1].pdf, BEV417-C-DWG-015.pdf, S0204-BioBasin[1].pdf
Importance: High

Hi Adam

Please find attached the additional information in relation to the existing stormwater detention system for 84 – 160 Christensen Road South, Stapylton. As detailed in the letter, the existing basin can accommodate up to 87% of impervious surface over entire site area (including undeveloped areas to the north of Christensen Road). The depth of the basin is consistent with the original engineering design with the 8% shortfall due to sediment build up which our client intends to remove as part of the staged ROL.

For the current material change of use application, we have now demonstrated that the basin has ample capacity for the increase runoff and as such, request Council proceeds with finalising the application.

Regards.

Ben Battist
Director
iPlan Town Planning Pty Ltd
PO Box 687 Stones Corner Qld 4120
[p/f: 07 3892 1431](tel:0738921431) [m: 0407 291 104](tel:0407291104) [i: www.i-plan.com.au](http://www.i-plan.com.au)

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From: Travis Smith <Travis.Smith@icubed.com.au>
Date: Tuesday, 16 January 2018 at 2:57 pm
To: Ben Battist <ben.battist@i-plan.com.au>, Michael Scammells <michael@msprojects.com.au>
Subject: RE: EMAIL FROM APPLICANT SUBMISSION OF ADDITIONAL STORMWATER AND HYDRAULIC INFORMATION

Ben

After talking to Michael I’ve added my RPEQ number to the letter.

Regards

Travis Smith
Civil Engineer

i³ consulting pty ltd
engineering consultants
innovation ingenuity inspiration
Suite 2/ 39 Sherwood Road PO Box 878
TOOWONG QLD 4066 TOOWONG QLD 4066
p: 07 3870 8888 f: 07 38708988 m: 0414 662 454
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having them resupplied.

Our Ref: 20180116 17-209 RFI Response ROL

16 January 2018

**City of Gold Coast
PO Box 5042
GOLD COAST MC 9729**

ATTENTION: Adam Morris

**RE: L334 SP193431 84 - 160 CHRISTENSEN ROAD SOUTH STAPYLTON QLD 4207
MCU201701572 – DEVELOPMENT APPROVAL
DETENTION BASIN REVIEW**

icubed consulting
innovation ingenuity inspiration
ABN 89 106 675 156

Dear Sir,

A survey has been carried out on the existing basin (Easement G SP193431) at Christensen Road South (Dwg No. S0204-BioBasin).

The survey was then compared to the design drawing for the subdivision (Dwg No. BEV417-C-DWG-014 & -015).

The levels for the inlet pipe, outlet pipes and overflow spillway were found to be inline with the design drawings.

The grading of the basin was also inline with the design drawings, however there has been some sediment buildup since construction resulting on a reduction of the basin capacity to 9,808cu.m or 87% of design capacity. This relates to an issue with maintenance and not the design of the basin.

Given that the site is approx. 50% developed the current detention basin capacity is more than adequate to detain the runoff.

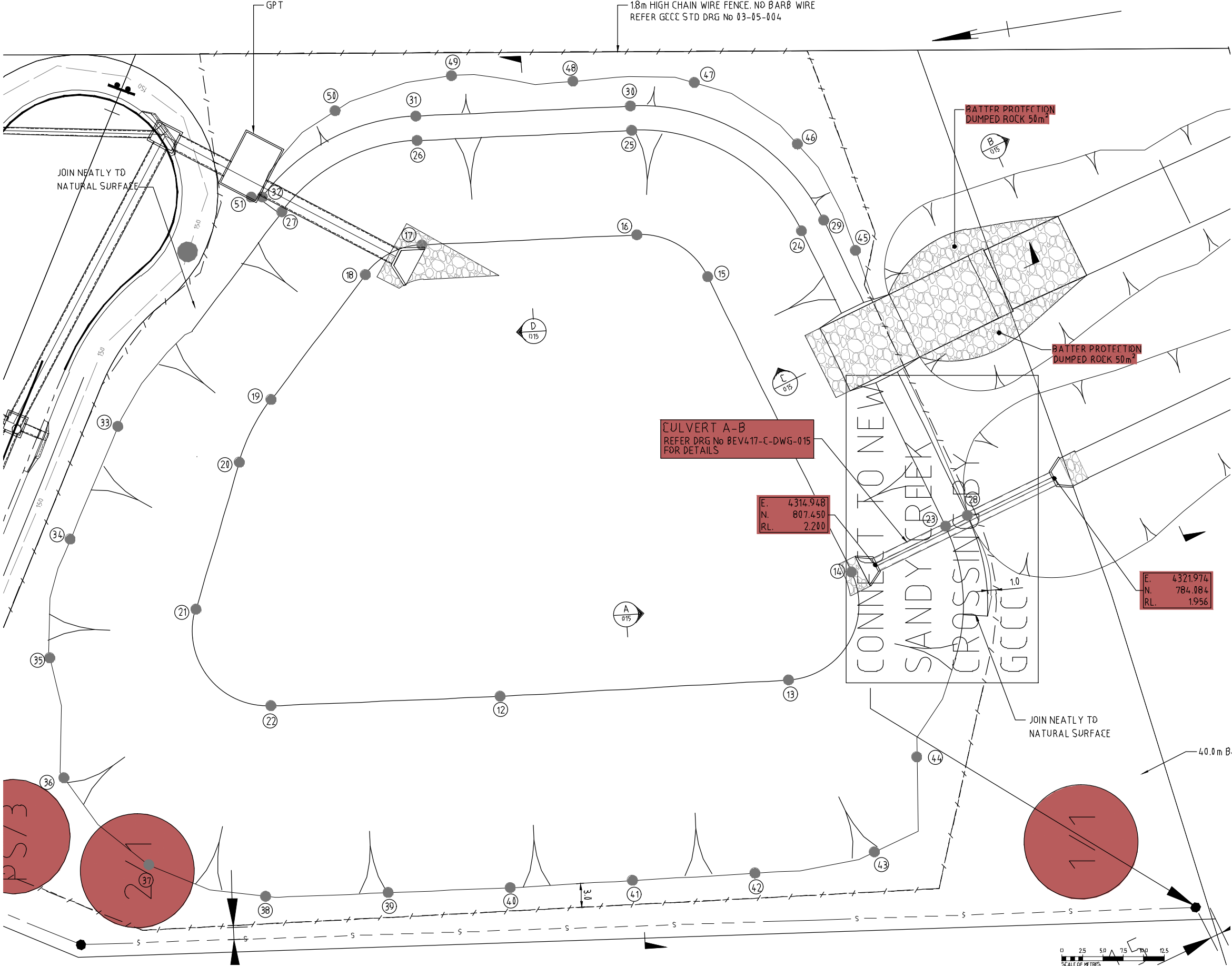
In summary, as detailed above, the construction of the basin is inline with the design drawings and the stormwater report (Kellogg Brown & Root Pty Ltd, 1 March 2015; iSpot#16980108) for the development. The only issue identified as part of the review was that of sediment build up, which can be addressed through maintenance and given the current level of development the remaining capacity will more than adequately mitigate the increased runoff.

The survey and design drawings have been attached for review.

Should you require any further information regarding this matter, please do not hesitate to contact me on 07 3870 8888 or 0414662454.

Regards

**Travis Smith
Civil Engineer
RPEQ 16400**



BASIN SETOUT			
PTN	EASTING	NORTHING	LEVEL
12	4306.333	866.346	2.200
13	4302.740	820.154	2.200
14	4314.567	810.417	2.200
15	4353.037	822.104	2.200
16	4369.606	829.882	2.200
17	4362.441	856.063	2.200
18	4369.932	863.462	2.200
19	4346.644	877.293	2.200
20	4339.669	882.342	2.200
21	4322.748	890.467	2.200
22	4309.629	883.253	2.200
23	4318.287	799.170	5.400
24	4366.768	808.866	5.400
25	4372.236	828.456	5.400
26	4375.161	854.637	5.400
27	4369.163	872.330	5.400
28	4319.159	795.299	5.400
29	4357.630	806.986	5.400
30	4375.208	829.121	5.400
31	4378.142	854.303	5.400
32	4371.326	874.408	5.400
33	4346.402	886.363	6.088
34	4333.648	904.297	6.496
35	4319.693	909.085	6.651
36	4304.924	908.694	7.624
37	4292.795	901.110	7.936
38	4286.704	887.565	8.060
39	4284.762	872.704	8.064
40	4283.005	857.807	8.065
41	4281.504	842.882	8.059
42	4280.009	827.957	8.051
43	4280.274	813.074	8.002
44	4290.931	806.107	6.119
45	4353.389	808.722	4.929
46	4367.346	808.700	4.607
47	4376.792	819.967	4.448
48	4379.308	834.627	4.562
49	4382.333	849.217	4.217
50	4380.347	863.933	4.629
51	4371.500	875.782	5.131

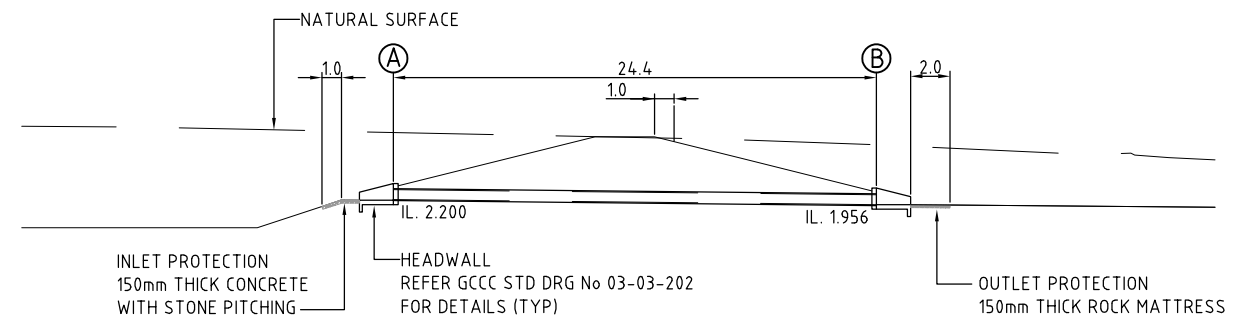
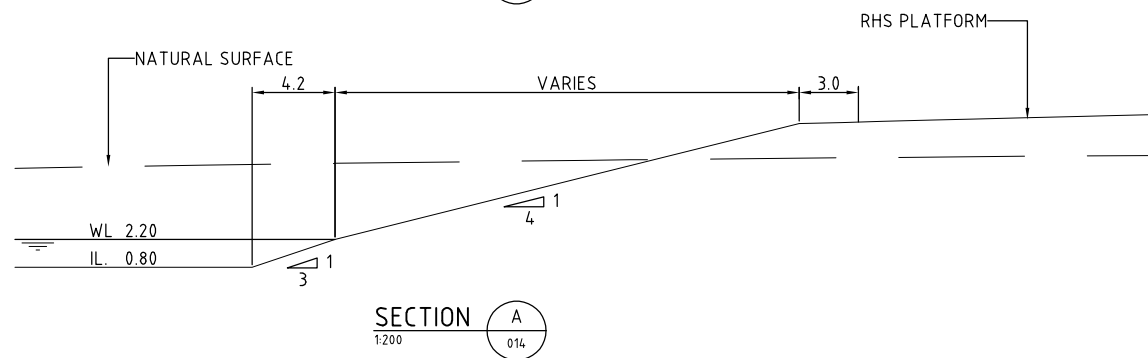
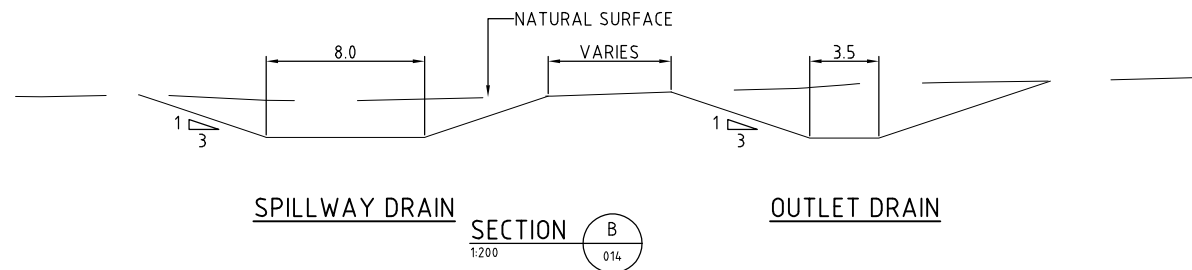
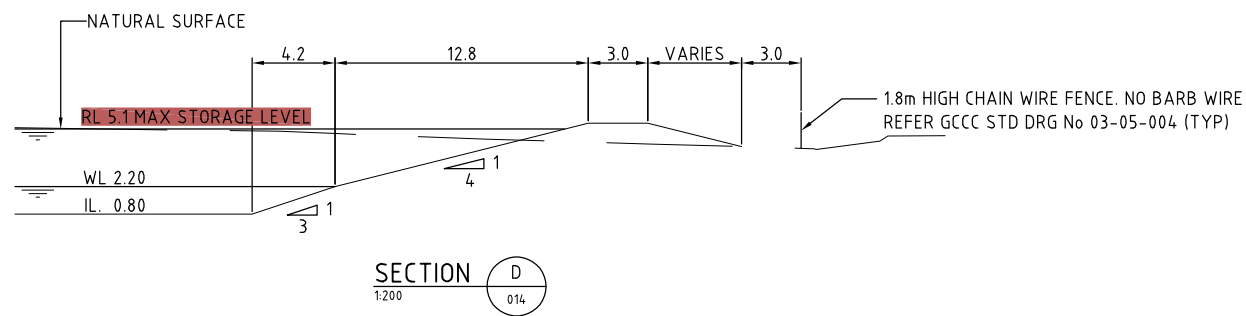
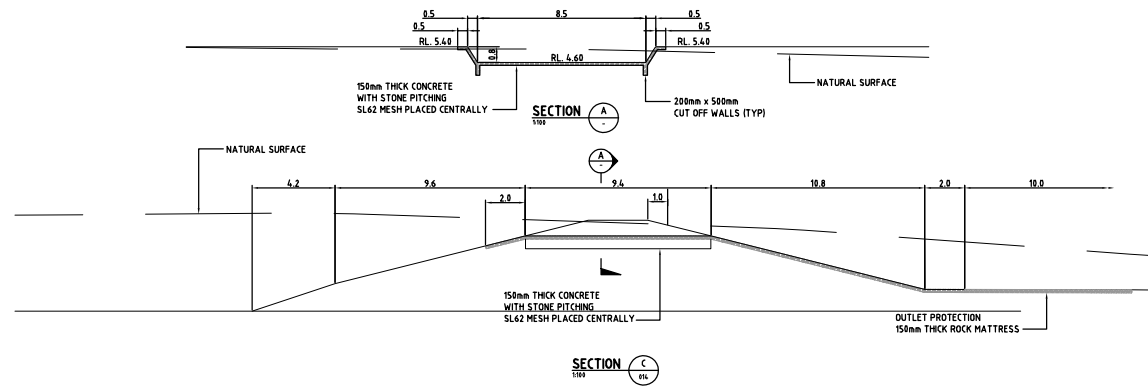
XREFS:Address_block\NEW_A1_APAC_STD_xr_bk\Control Lines\Design Road\Survey Base\Design Platform\Design Basin\BEV417-C-DWG-204\Design SEW\Christensen Road\1396 Christensen Road Alignment

BURNSIDE DEVELOPMENTS PTY LTD
99 ANNERLEY ROAD
WOOLLOONGABBA QLD 4102

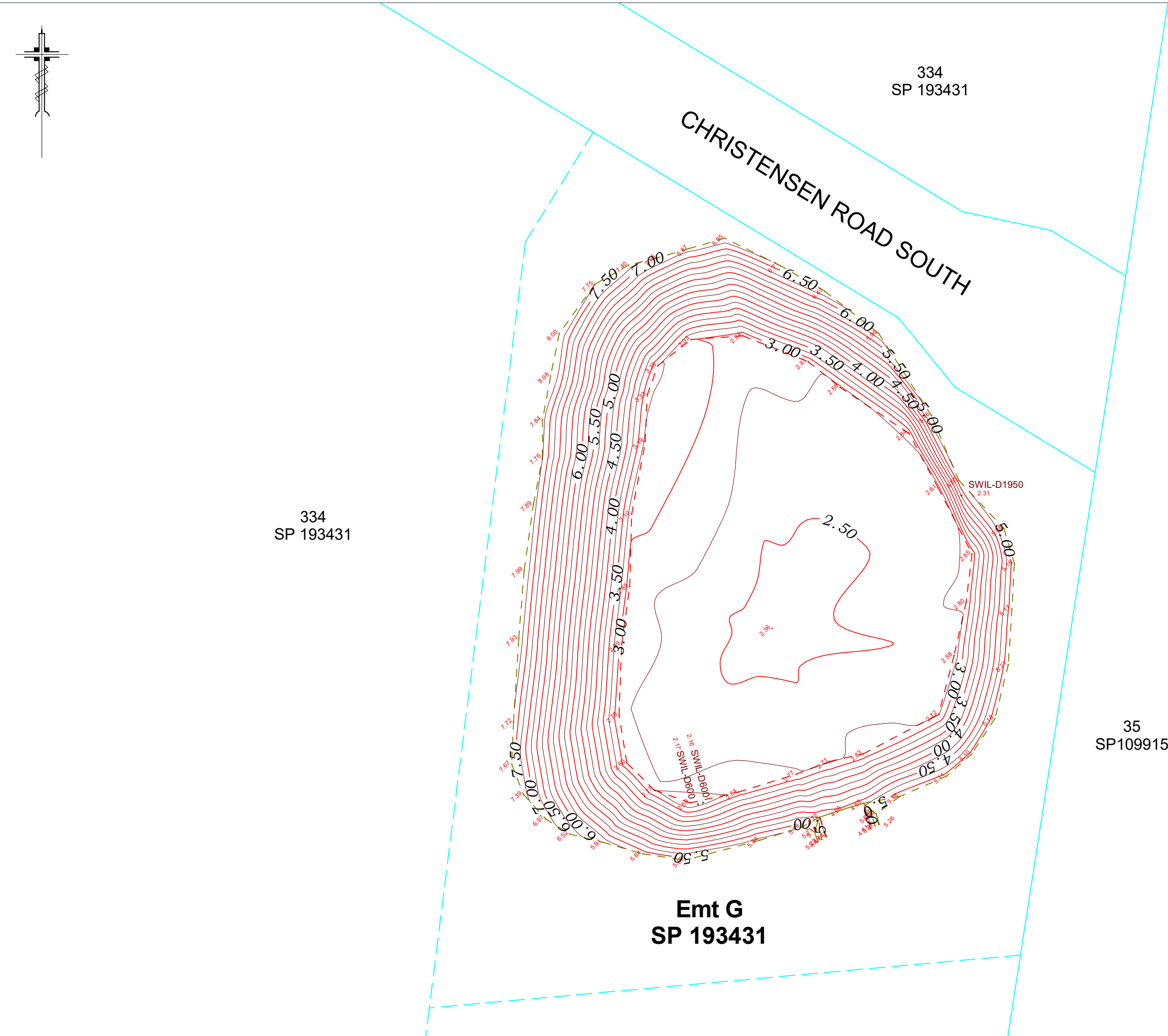
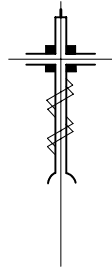
J PDMROY
J PDMROY
D NEUHOLD
GC LOVELL

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1:1000 (A1)
AM FRANGIDIS
BEV417
BEV417-C-DWG-014.dwg

INDUSTRIAL ESTATE
CHRISTENSEN ROAD, YATALA
DETENTION \ WATER QUALITY BASIN
SETOUT SHEET 1 OF 1
BEV417-C-DWG-014



CULVERT A-B
2/600 RCP, RRJ, CLASS 2, 24.4m (10x2.44m)
SCALE 1:200



REVISIONS				ASSOCIATED CONSULTANTS:		SURVEYOR RWB	DATE 12/01/2018	LEVEL DATUM: AHD PSM 191317 RL 12.954	CLIENT:	SITE: Emt G SP 193431	SCALE 1:700
			C			DRAWN	CHECKED				PLAN REF: S0204-BioBasin
			B								
			A								