

BRITTEN & ASSOCIATES PTY.LIMITED

CONSULTING SURVEYORS & ENGINEERS

ABN 64 001 848 451

DIRECTOR: J. Howie

Member of the Institution of Surveyors Australia

Member of the Association of Consulting Surveyors

ALL CORRESPONDENCE TO:

PO Box 171A

FAIRFIELD HEIGHTS NSW 2165

Our Ref: 9376

Your Ref:

17th April 2012

The General Manager

Fairfield City Council

PO Box 21

FAIRFIELD NSW 1860

RE: LOTS 4 & 5 DP 714281

ROSSETTI STREET AND THE HORSLEY DRIVE, WETHERILL PARK

Dear Sir,

Please find attached the overland flow analysis for the above property.

The overland flow has previously been determined as 8.4684 cum. A copy of the catchment plan is attached.

It has been assumed that the proposed building and below-ground carpark will be offset at a minimum distance of 2 metres from the two boundaries. If the building is constructed in this location, the increase in water height is below 10mm.

It should be noted that the velocity depth factor reaches as high as 1.01 at chainage 6.00, which increases to 1.02 in the proposed condition. The velocity depth factor remains around 0.8 the further into the parkland the chainages go.

Should you have any inquiries, please do not hesitate to contact our office.

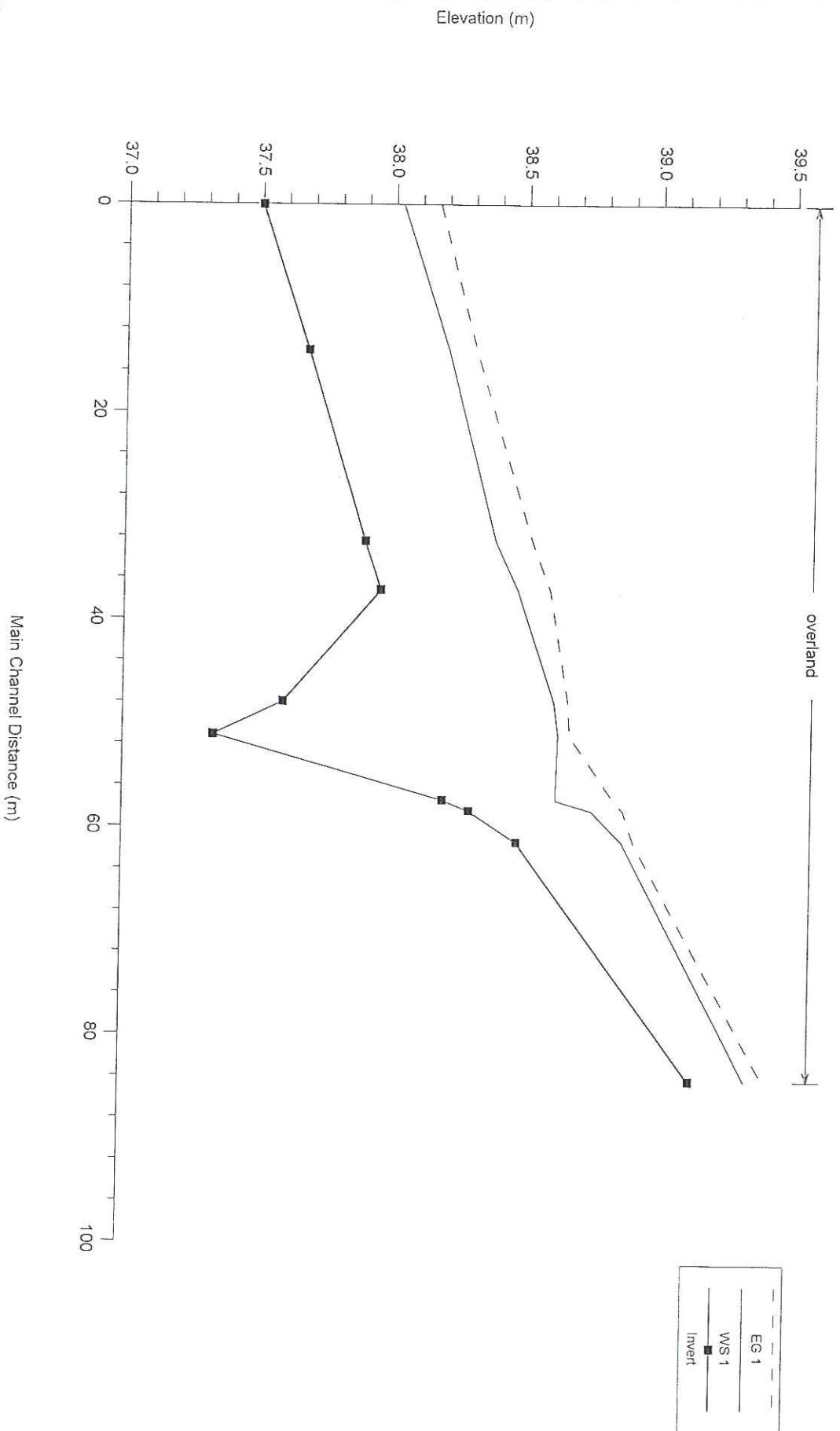
Yours faithfully,



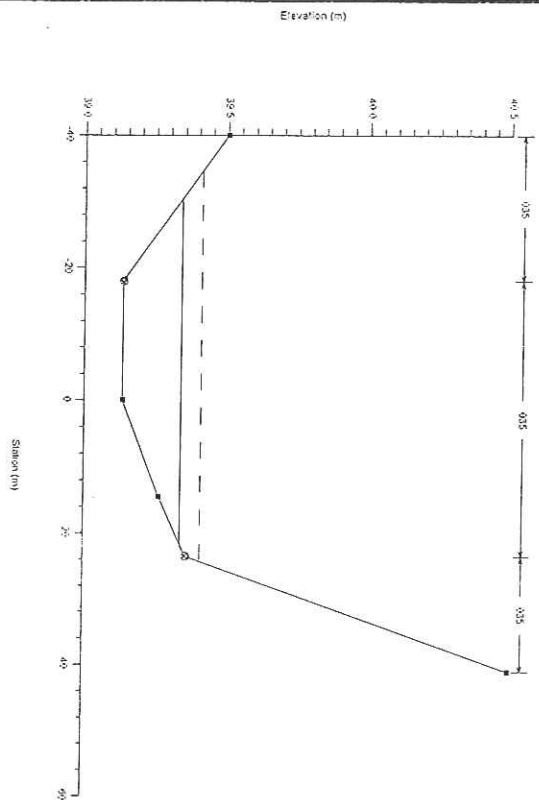
Ewen Alexander

HEC-RAS Plan: 9376e Reach: overland 17/04/2012

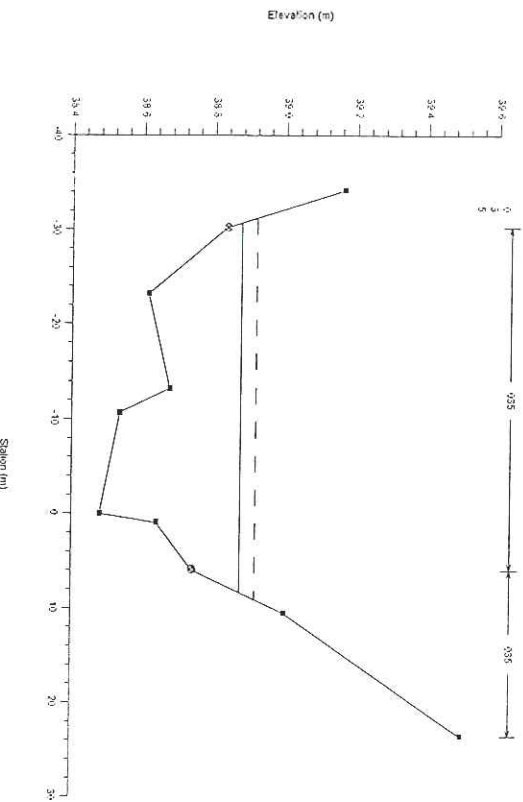
River Sta.	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m ²)	Top Width (m)	Max Chl Dpth (m)
33.00	8.4684	39.135	39.341	39.341	39.41	0.022201	1.21	7.29	52.066	0.206
10.00	8.4684	38.480	38.875		38.92	0.006386	0.92	9.35	38.983	0.395
7.00	8.4684	38.300	38.758	38.758	38.88	0.014012	1.83	6.03	25.236	0.458
6.00	8.4684	38.200	38.625	38.686	38.84	0.028160	2.38	4.49	20.814	0.425
-0.2	8.4684	37.340	38.632		38.67	0.001113	0.95	10.65	22.707	1.292
-3.40	8.4684	37.600	38.616	38.403	38.67	0.003344	1.03	8.89	24.529	1.016
-14.20	8.4684	37.960	38.477	38.477	38.60	0.013386	1.58	5.95	27.907	0.517
-18.90	8.4684	37.900	38.391	38.404	38.53	0.015718	1.69	5.53	25.323	0.491
-37.30	8.4684	37.680	38.204		38.31	0.007974	1.47	6.22	18.512	0.524
-51.3	8.4684	37.500	38.025	38.025	38.17	0.012789	1.75	5.52	20.386	0.525



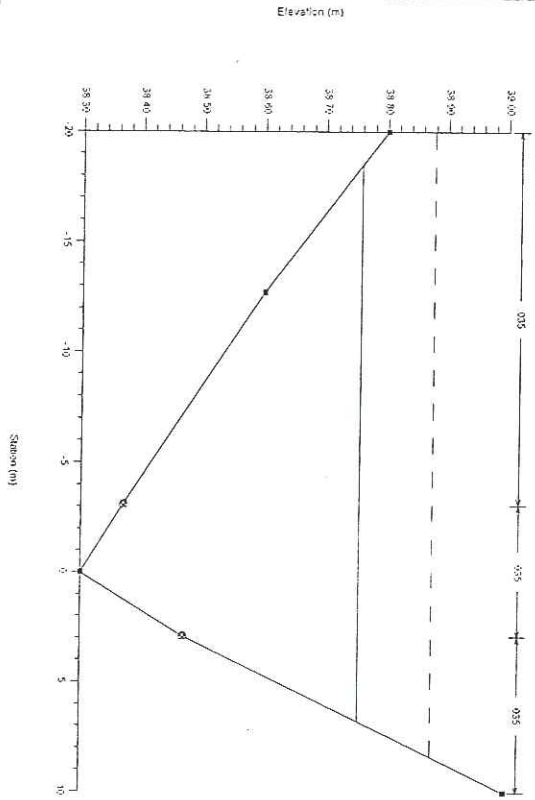
Rossett Street, Wetherill Park - ex Plan: Rossett Street, Wetherill Park - ex 17/04/2012
ch 33.00



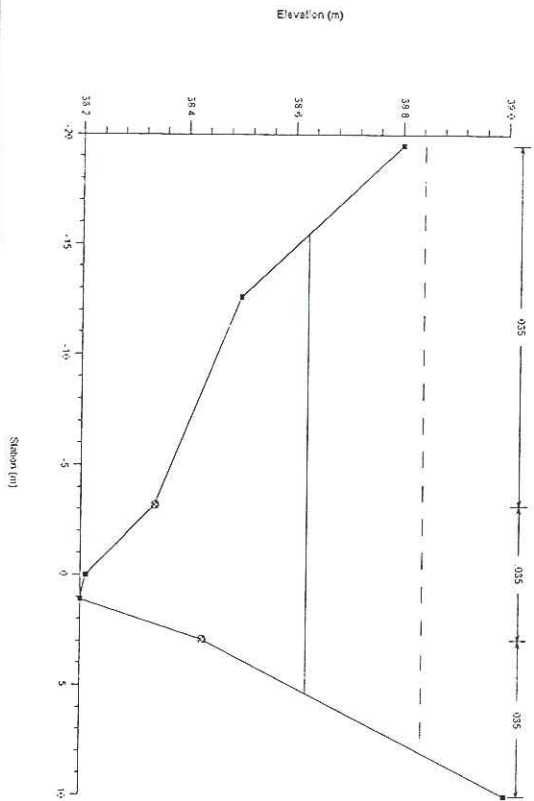
Rossett Street, Wetherill Park - ex Plan: Rossett Street, Wetherill Park - ex 17/04/2012
ch 10.00



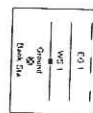
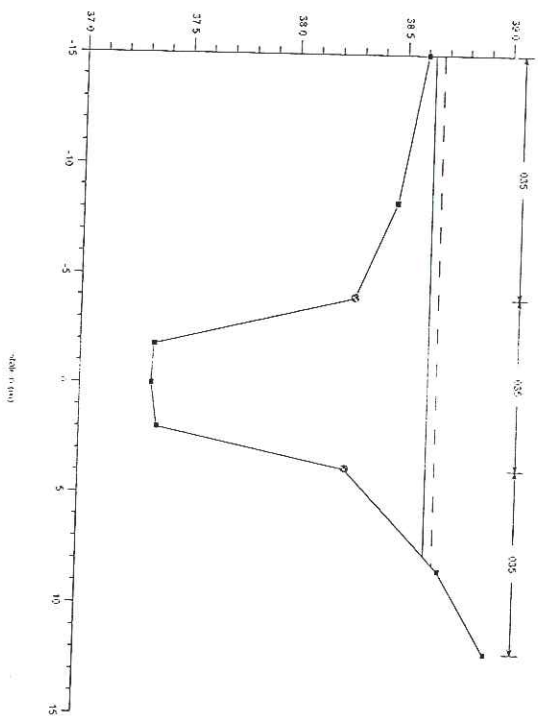
Rossett Street, Wetherill Park - ex Plan: Rossett Street, Wetherill Park - ex 17/04/2012
ch 7.00



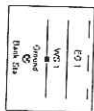
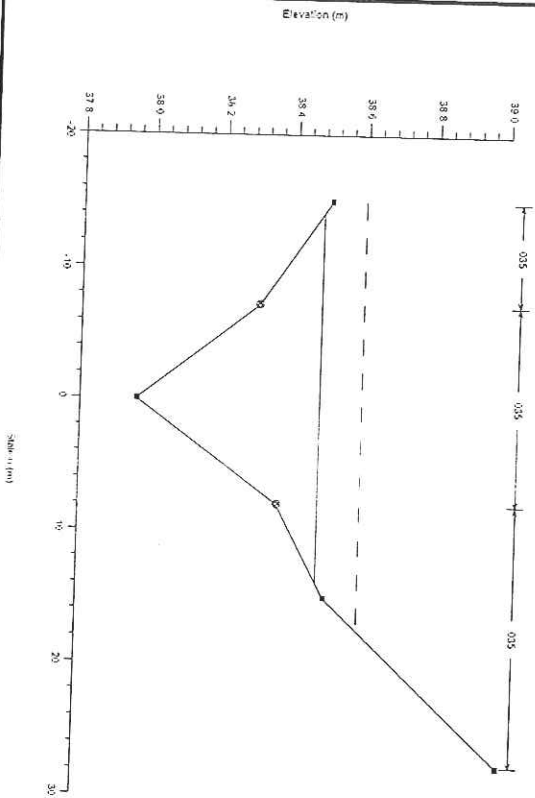
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ch 6.00



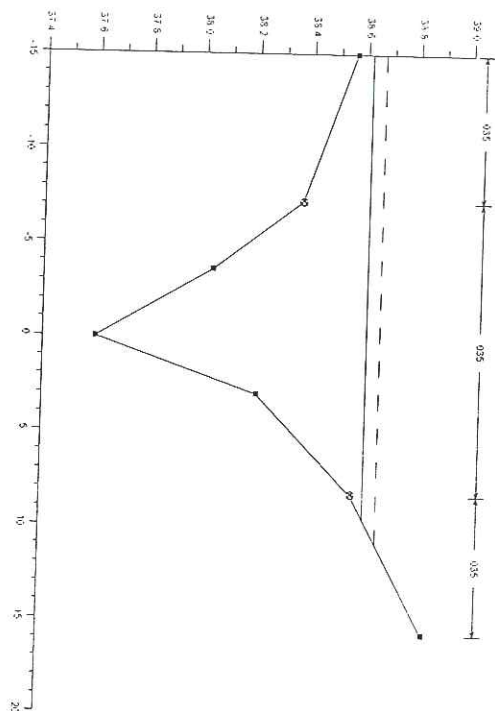
Rosselli Street, Wetherill Park - ex Plan Rosselli Street, Wetherill Park - ex 17/04/2012
ch -0.20



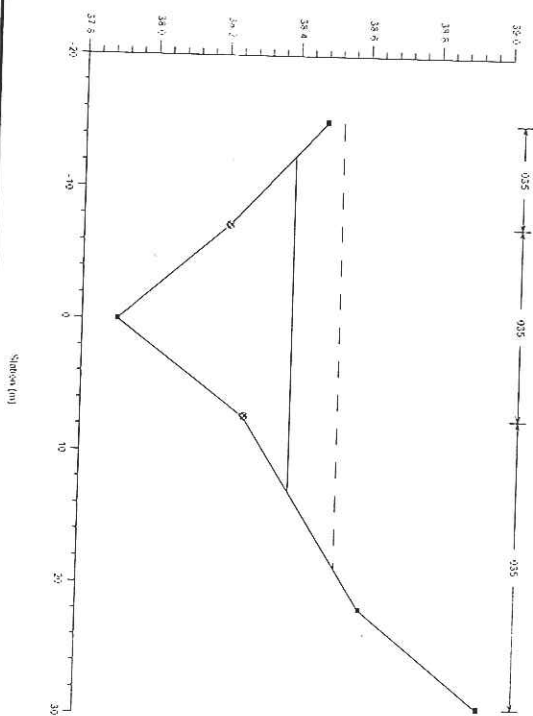
Rosselli Street, Wetherill Park - ex Plan Rosselli Street, Wetherill Park - ex 17/04/2012
ch -14.20



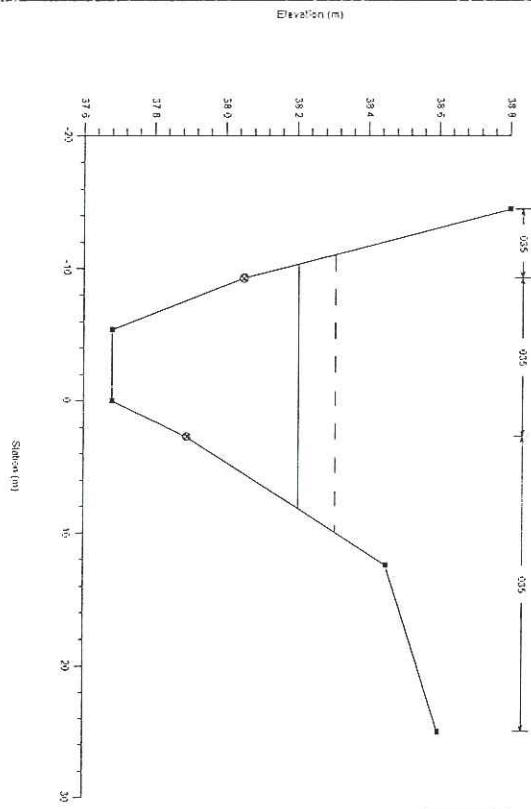
Rosselli Street, Wetherill Park - ex Plan Rosselli Street, Wetherill Park - ex 17/04/2012
ch -3.40



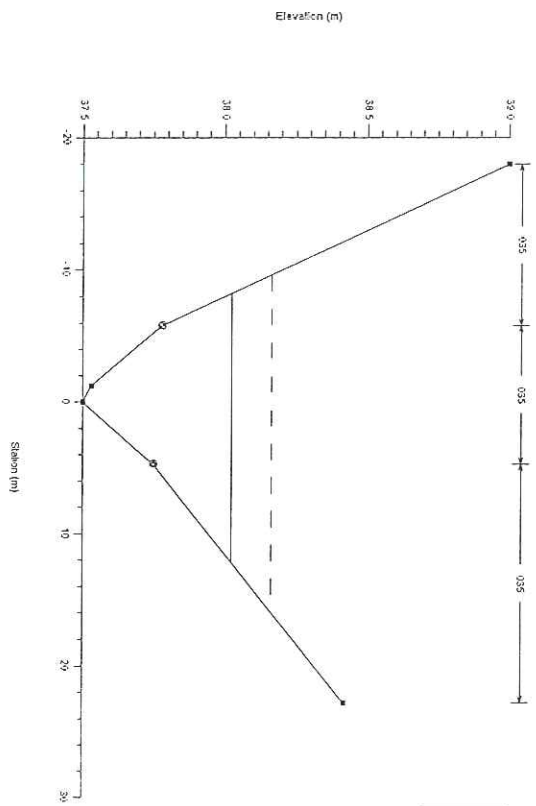
Rosselli Street, Wetherill Park - ex Plan Rosselli Street, Wetherill Park - ex 17/04/2012
ch -18.50



Rossell Street, Wetherill Park - ex Plan Rossell Street, Wetherill Park - ex 17/04/2012
 ch-37.30

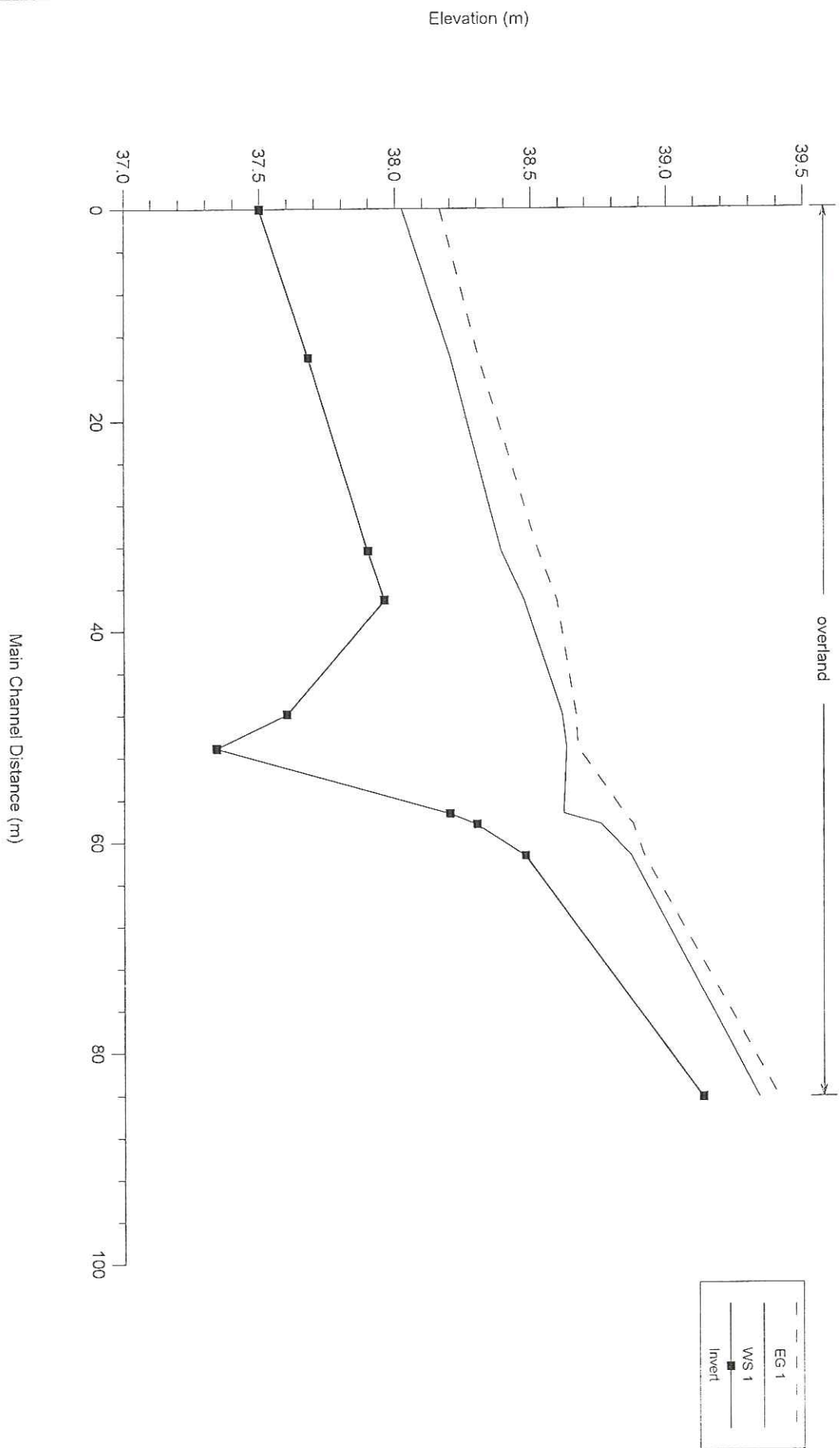


Rossell Street, Wetherill Park - ex Plan Rossell Street, Wetherill Park - ex 17/04/2012
 ch-31.50

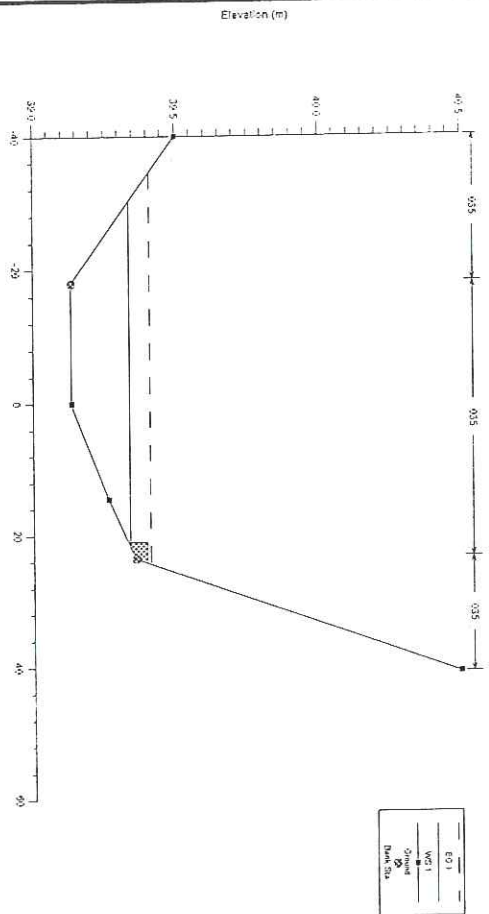


HEC-RAS Plan: 9376d Reach: overland 17/04/2012

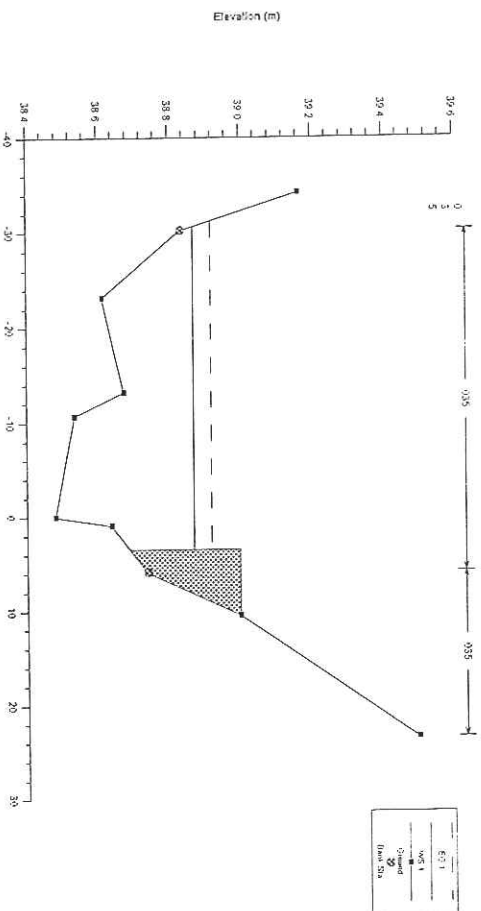
River Sta.	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Max Chl Dpth (m)
33.00	8.4684	39.135	39.339	39.339	39.41	0.022681	1.23	7.19	51.290	0.204
10.00	8.4684	38.480	38.870		38.92	0.007305	0.98	8.64	34.130	0.390
7.00	8.4684	38.300	38.759	38.759	38.88	0.013969	1.83	6.04	25.250	0.458
6.00	8.4684	38.200	38.621	38.686	38.85	0.029781	2.43	4.40	20.659	0.421
-0.2	8.4684	37.340	38.632		38.67	0.001113	0.95	10.65	22.707	1.292
-3.40	8.4684	37.600	38.616	38.403	38.67	0.003344	1.03	8.89	24.529	1.016
-14.20	8.4684	37.960	38.477	38.477	38.60	0.013386	1.58	5.95	27.907	0.517
-18.90	8.4684	37.900	38.391	38.404	38.53	0.015718	1.69	5.53	25.323	0.491
-37.30	8.4684	37.680	38.204		38.31	0.007974	1.47	6.22	18.512	0.524
-51.3	8.4684	37.500	38.025	38.025	38.17	0.012789	1.75	5.52	20.386	0.525



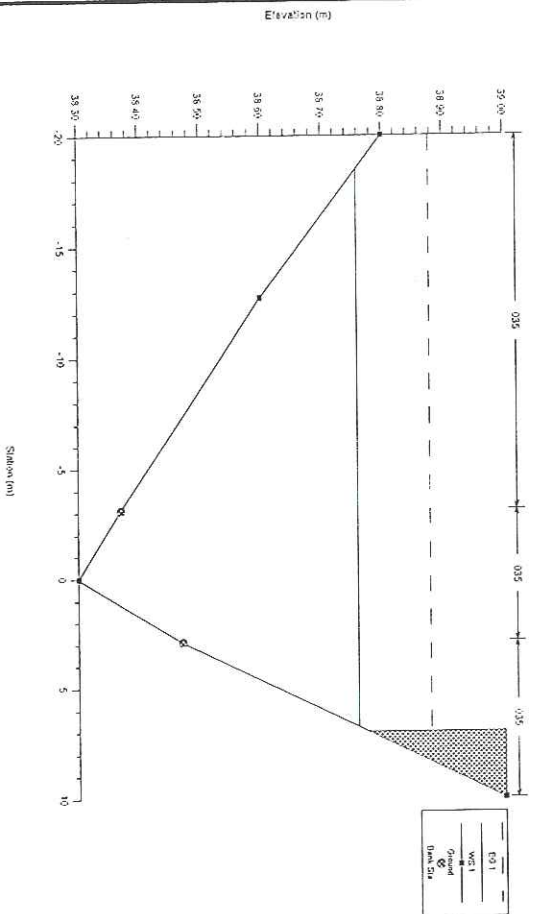
Rossell Street, Weithell Park - des Plan, Rossell Street, Weithell Park - des ch 33.00 17/04/2012



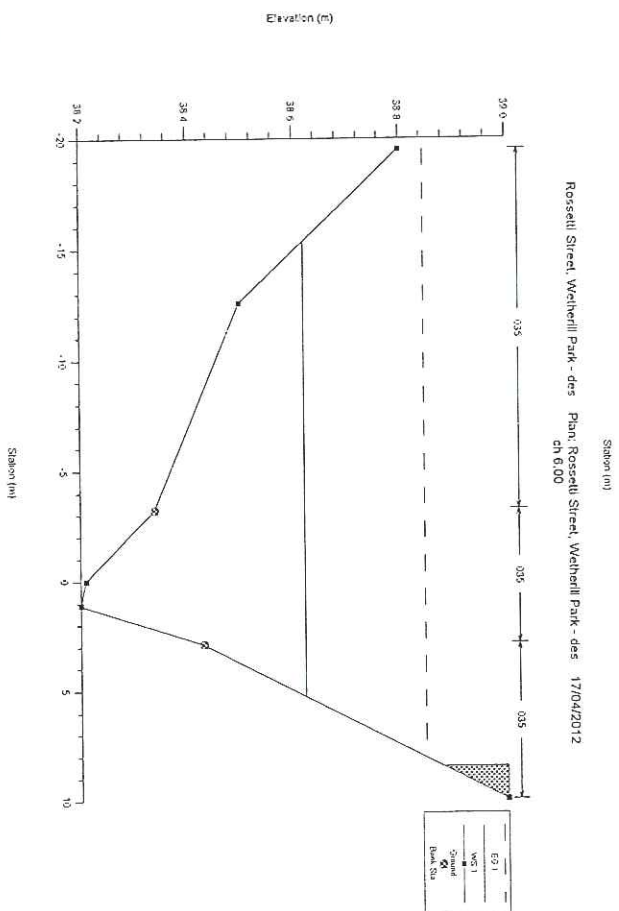
Rossell Street, Weithell Park - des Plan, Rossell Street, Weithell Park - des ch 10.00 17/04/2012



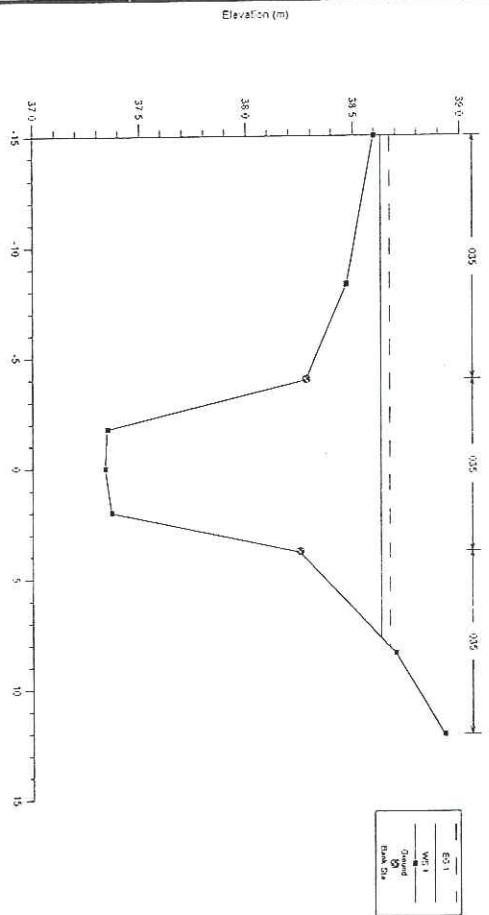
Rossell Street, Weithell Park - des Plan, Rossell Street, Weithell Park - des ch 7.00 17/04/2012



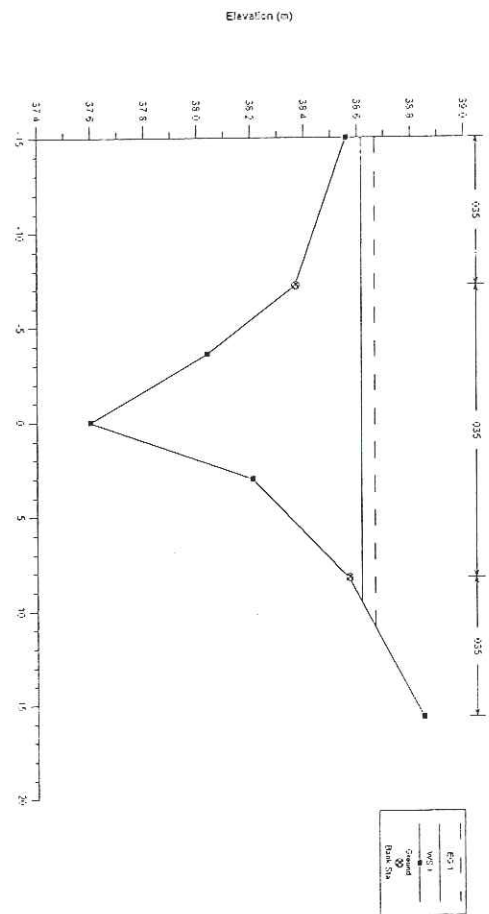
Rossell Street, Weithell Park - des Plan, Rossell Street, Weithell Park - des ch 6.00 17/04/2012



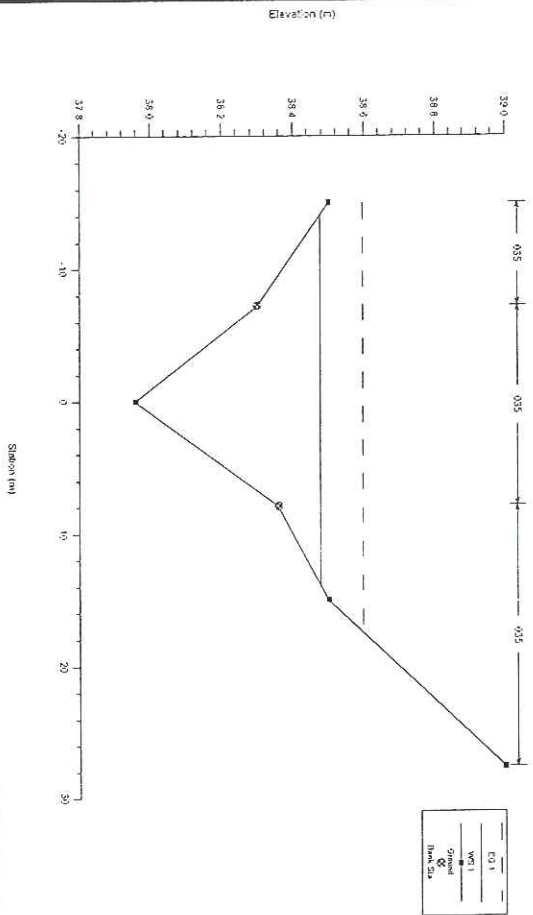
Rossetti Street, Weithell Park - des Plan: Rossetti Street, Weithell Park - des 17/04/2012
ch -0,20



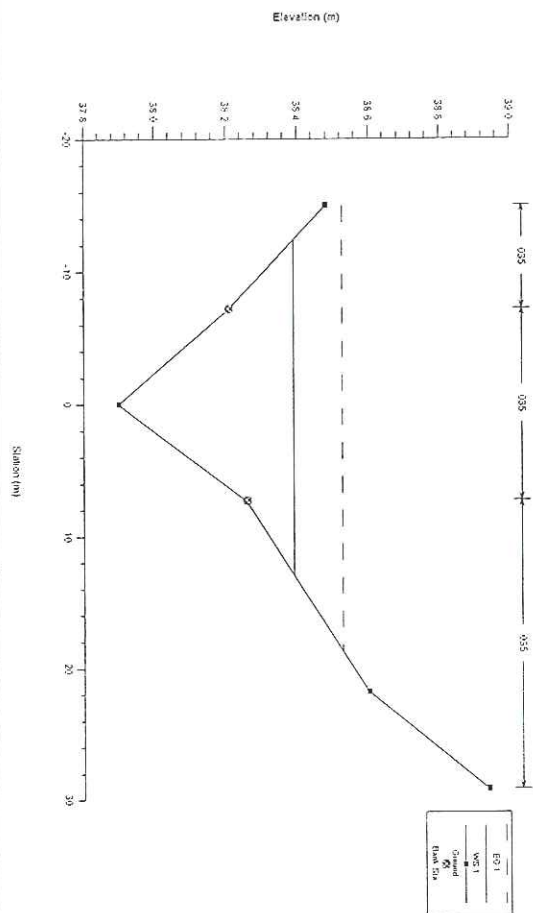
Rossetti Street, Weithell Park - des Plan: Rossetti Street, Weithell Park - des 17/04/2012
ch -3,40



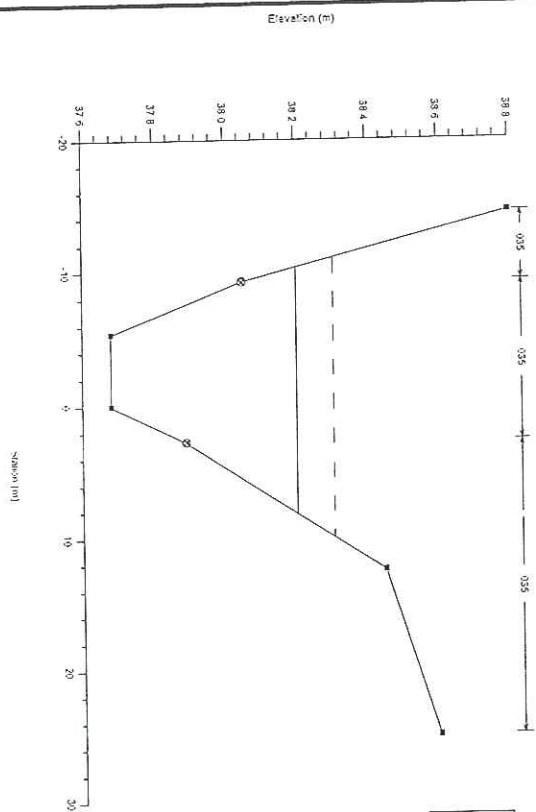
Rossetti Street, Weithell Park - des Plan: Rossetti Street, Weithell Park - des 17/04/2012
ch -14,20



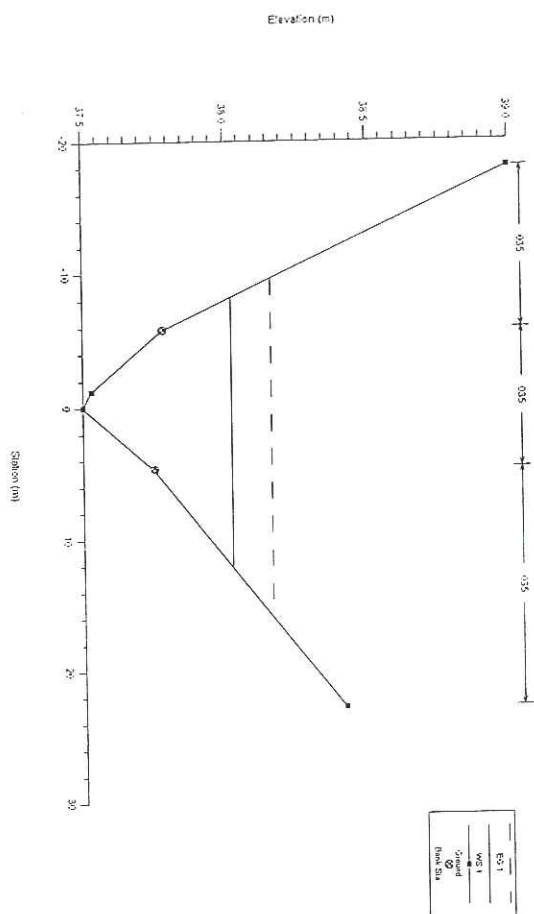
Rossetti Street, Weithell Park - des Plan: Rossetti Street, Weithell Park - des 17/04/2012
ch -18,90



Rossettli Street, Weihenell Park - des Plan Rossettli Street, Weihenell Park - des 17/04/2012
ch-51.30



Rossettli Street, Weihenell Park - des Plan Rossettli Street, Weihenell Park - des 17/04/2012
ch-51.30





INDICATIVE CATCHMENT PLAN CORNER ROSSETTI AND MANSFIELD STS

40 2m CONTOURS DIGITISED FROM
MAPS CREATED PRIOR TO 1985

INDICATIVE LOCATION OF
STORMWATER DRAINAGE.

Area = 460903 m²
= 46.0903 ha.

L₁ = 287 S₁ = 4.211 n₁ = 0.08
L₂ = 190 S₂ = 3.636 n₂ = 0.012

THE INFORMATION SHOWN ON THIS PLAN IS PROVIDED

AS A GUIDE ONLY AND SHOULD BE VERIFIED IN THE FIELD



1:5 = 23.9mm 1:5 = 68.2

1:100 = 18.7mm 1:100 = 126

Road 9218.1

Residential 451684.9 SCALE 1:4000

Fairfield
City
Council
LAND INFORMATION SYSTEM

EWENA1T-APK-20/5/99

Q₅ = (0.87 * 9218.1 + 0.73 * 451684.9) * 68.2

0.36 * 10000

= 6398.5 L/s.

Q₁₀₀ = (1.00 * 9218.1 + 0.92 * 451684.9) * 126

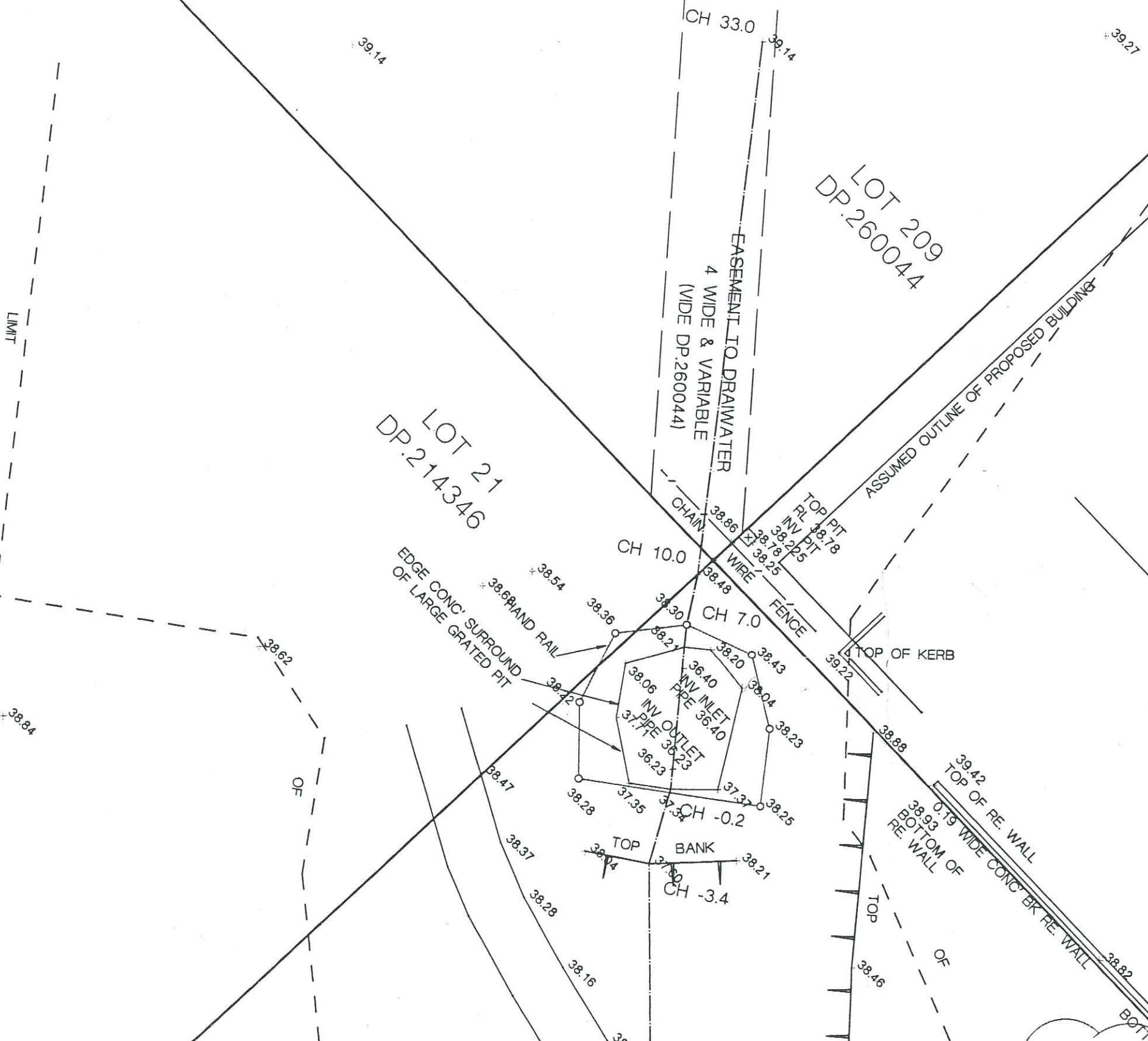
0.36 * 10000

= 14866.3 L/s

D.R. Reserve = 8468.4 L/s

WETHERILL PARK
SHOPPING TOWN

LOT 5
DP.714281



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