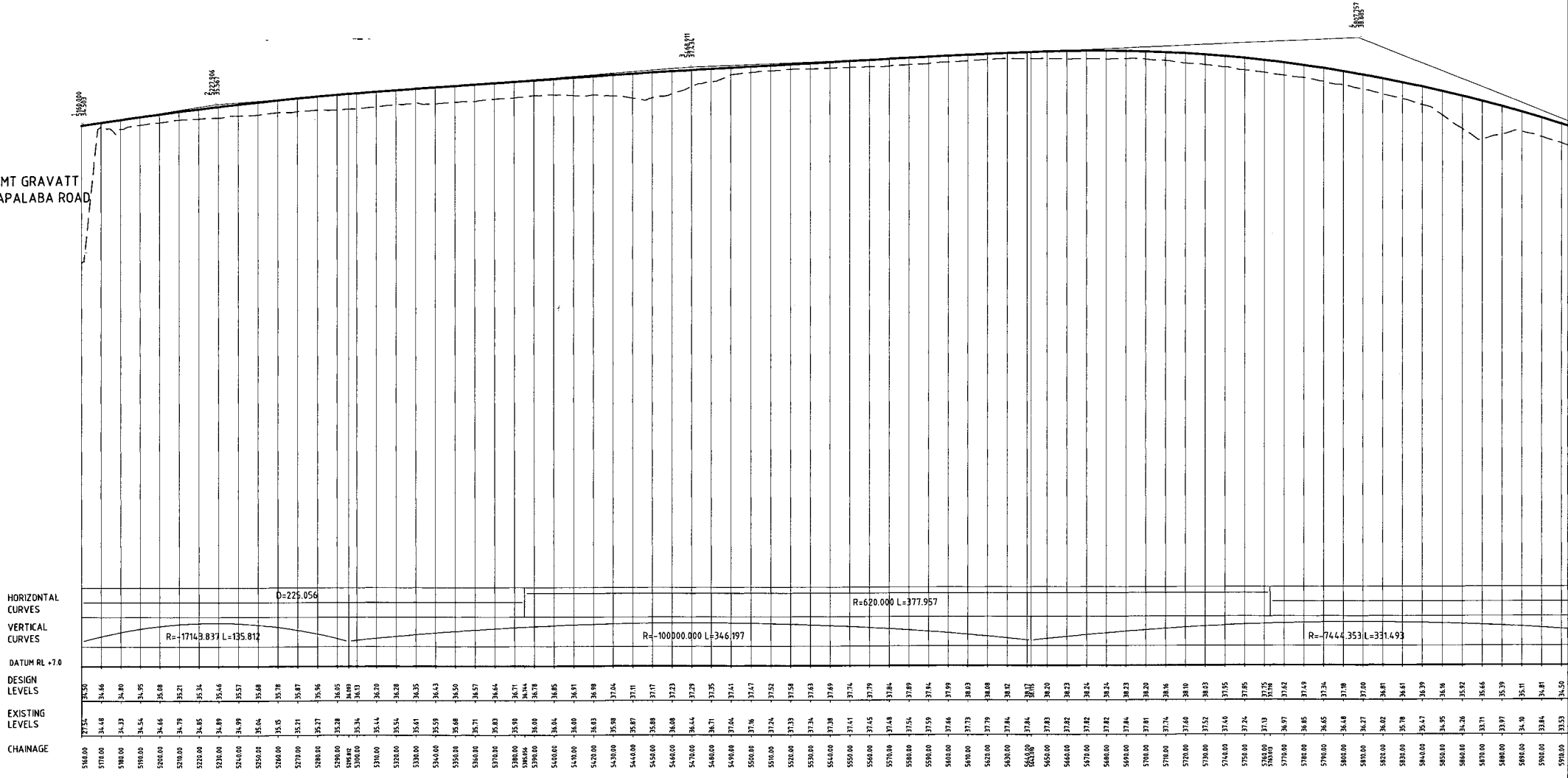


MT GRAVATT  
CAPALABA ROAD



HORIZONTAL  
CURVES  
VERTICAL  
CURVES  
DATUM RL +7.0  
DESIGN  
LEVELS  
EXISTING  
LEVELS  
CHAINAGE

- NOTES:**
- BRIDGE LOCATION ONLY SHOWN. REFER DRAWING BR001 TO BR042 FOR BRIDGE SPANS, PIER LOCATIONS, DETAILS AND CLEARANCES ETC.
  - VERTICAL ALIGNMENT IS BASED ON A NOMINAL DEPTH DEEP LIFT ASPHALT OVERLAY, WITH TRANSITIONS AT BRIDGE APPROACHES TO SUIT DW'S THICKNESS.

**PRELIMINARY**  
09-08-2004

**Connell Wagner**

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**Queensland Government**  
Department of Main Roads

Job No. No54 of 53 drgs  
Drawing No. LS001

Contract No. Approved

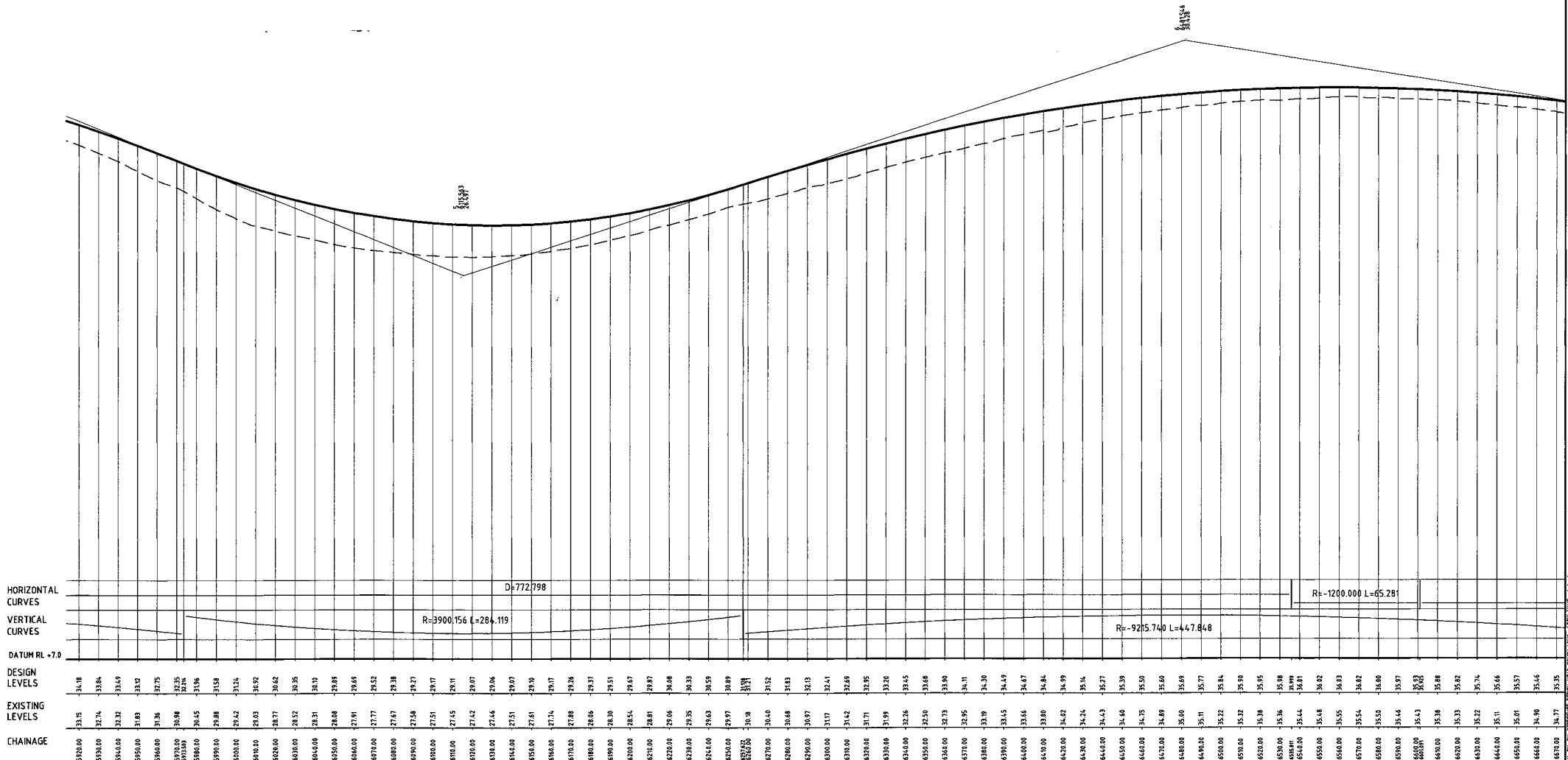
CAD REF: CONNELL WAGNER

Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books
A	Original issue			(Office use only)	Scales 1:100  1 0 1 2 3 4 5 m 1:1000  10 0 10 20 30 40 50 m	Through chainage from

BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT			
Reference Points			
Preceding RPC	Dist. to start of job (km)	From end to following RPC	Following RPC
Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd

REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO			
Examined	Certified	Approved	
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	3297
RPEQ			//

REF: 5792.MRR.Detail.A1; T:09-CR-DIFFERENCE; DESIGN: MCAO; LS001; LONG; LDM; NAME: hwan



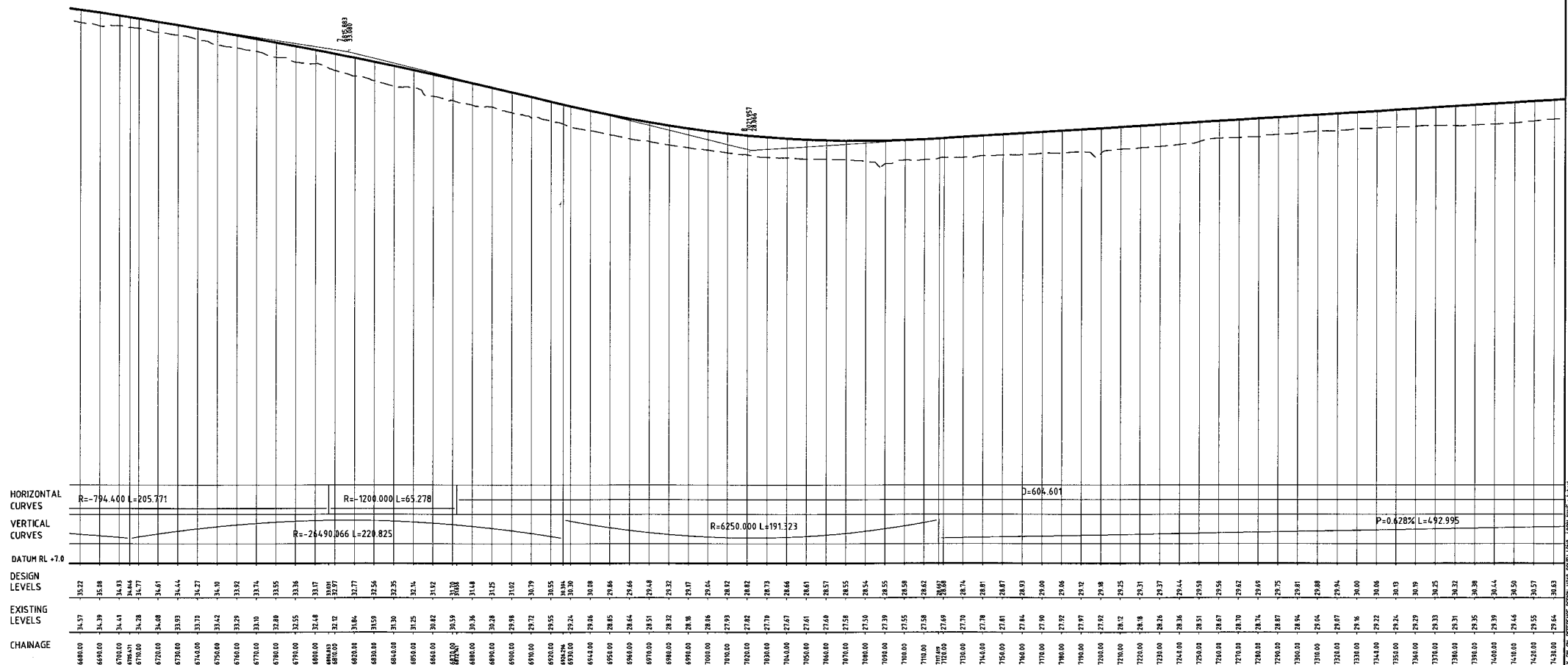
CHAINAGE	EXISTING LEVELS	DESIGN LEVELS
5920.00	-33.75	-34.18
5930.00	-33.74	-33.86
5940.00	-33.32	-33.49
5950.00	-31.83	-33.12
5960.00	-31.36	-32.75
5970.00	-30.98	-32.35
5980.00	-30.45	-31.96
5990.00	-29.88	-31.58
6000.00	-29.42	-31.24
6010.00	-28.93	-30.92
6020.00	-28.77	-30.62
6030.00	-28.52	-30.35
6040.00	-28.31	-30.10
6050.00	-28.08	-29.89
6060.00	-27.91	-29.69
6070.00	-27.77	-29.52
6080.00	-27.67	-29.38
6090.00	-27.58	-29.27
6100.00	-27.51	-29.17
6110.00	-27.45	-29.11
6120.00	-27.42	-29.07
6130.00	-27.44	-29.06
6140.00	-27.51	-29.07
6150.00	-27.61	-29.10
6160.00	-27.74	-29.17
6170.00	-27.88	-29.26
6180.00	-28.06	-29.37
6190.00	-28.30	-29.51
6200.00	-28.54	-29.67
6210.00	-28.81	-29.87
6220.00	-29.06	-30.08
6230.00	-29.35	-30.33
6240.00	-29.63	-30.59
6250.00	-29.97	-30.89
6260.00	-30.36	-31.21
6270.00	-30.40	-31.52
6280.00	-30.68	-31.83
6290.00	-30.97	-32.13
6300.00	-31.17	-32.41
6310.00	-31.42	-32.69
6320.00	-31.71	-32.95
6330.00	-31.99	-33.20
6340.00	-32.26	-33.45
6350.00	-32.50	-33.66
6360.00	-32.73	-33.80
6370.00	-32.95	-34.11
6380.00	-33.19	-34.30
6390.00	-33.45	-34.49
6400.00	-33.66	-34.47
6410.00	-33.80	-34.84
6420.00	-34.42	-34.99
6430.00	-34.74	-35.14
6440.00	-34.43	-35.27
6450.00	-34.40	-35.39
6460.00	-34.75	-35.50
6470.00	-34.89	-35.60
6480.00	-35.00	-35.69
6490.00	-35.11	-35.77
6500.00	-35.32	-35.84
6510.00	-35.32	-35.90
6520.00	-35.38	-35.95
6530.00	-35.36	-35.98
6540.00	-35.44	-36.01
6550.00	-35.48	-36.02
6560.00	-35.55	-36.03
6570.00	-35.54	-36.02
6580.00	-35.50	-36.00
6590.00	-35.46	-35.97
6600.00	-35.43	-35.93
6610.00	-35.38	-35.88
6620.00	-35.33	-35.82
6630.00	-35.32	-35.74
6640.00	-35.31	-35.66
6650.00	-35.01	-35.57
6660.00	-34.90	-35.46
6670.00	-34.77	-35.35

**PRELIMINARY**  
09-08-2004

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Revisions		Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books	<b>BRISBANE CITY COUNCIL</b>				<b>REFERENCE PROJECT</b>							
					Auxiliary drawing nos	Scales	Through chainage from	<b>GATEWAY UPGRADE PROJECT</b>				<b>LONGITUDINAL SECTIONS</b>							
					(Office use only)	1:100	CTL CHGE	<b>CH 5160 to CH 25250</b>				<b>CONTROL LINE MCAO</b>							
						1:1000	Reference Points	Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC	Following RPC	Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd	Examined	Certified	Approved
Original issue																			

**Queensland Government**  
 Department of Main Roads  
**JOB No.** No.55 of 53 drgs  
**Drawing No.** LS002  
**Contract No.** A  
 CAD REF: CONNELL WAGNER



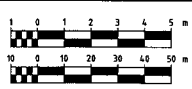
**PRELIMINARY**  
09-08-2004

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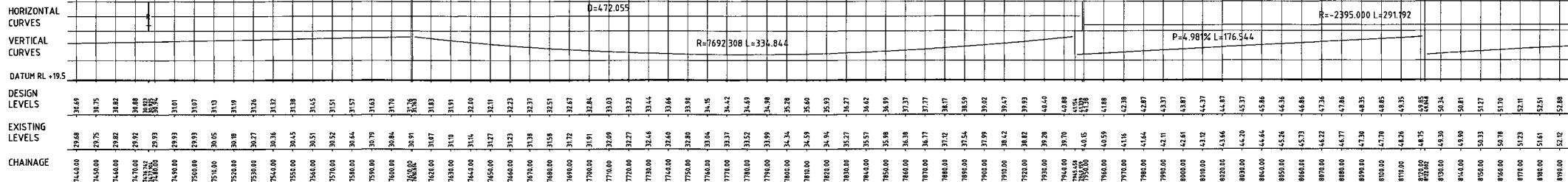
**Queensland Government**  
 Department of Main Roads

JOB No. No.56 of 53 drgs.  
 Drawing No. LS003  
 Contract No. A  
 CAD REF: CONNELL WAGNER

Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books	BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT				REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO							
				Auxiliary drawing nos	Scales	Through chainage from	CH 5160 to CH 25250				REFERENCE POINTS							
					1:100		Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC	Following RPC	Survey Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd	Examined	Certified	Approved
A	Original issue			(Office use only)	1:1000													



Signature of RPEQ 3297  
 RPEQ 3297



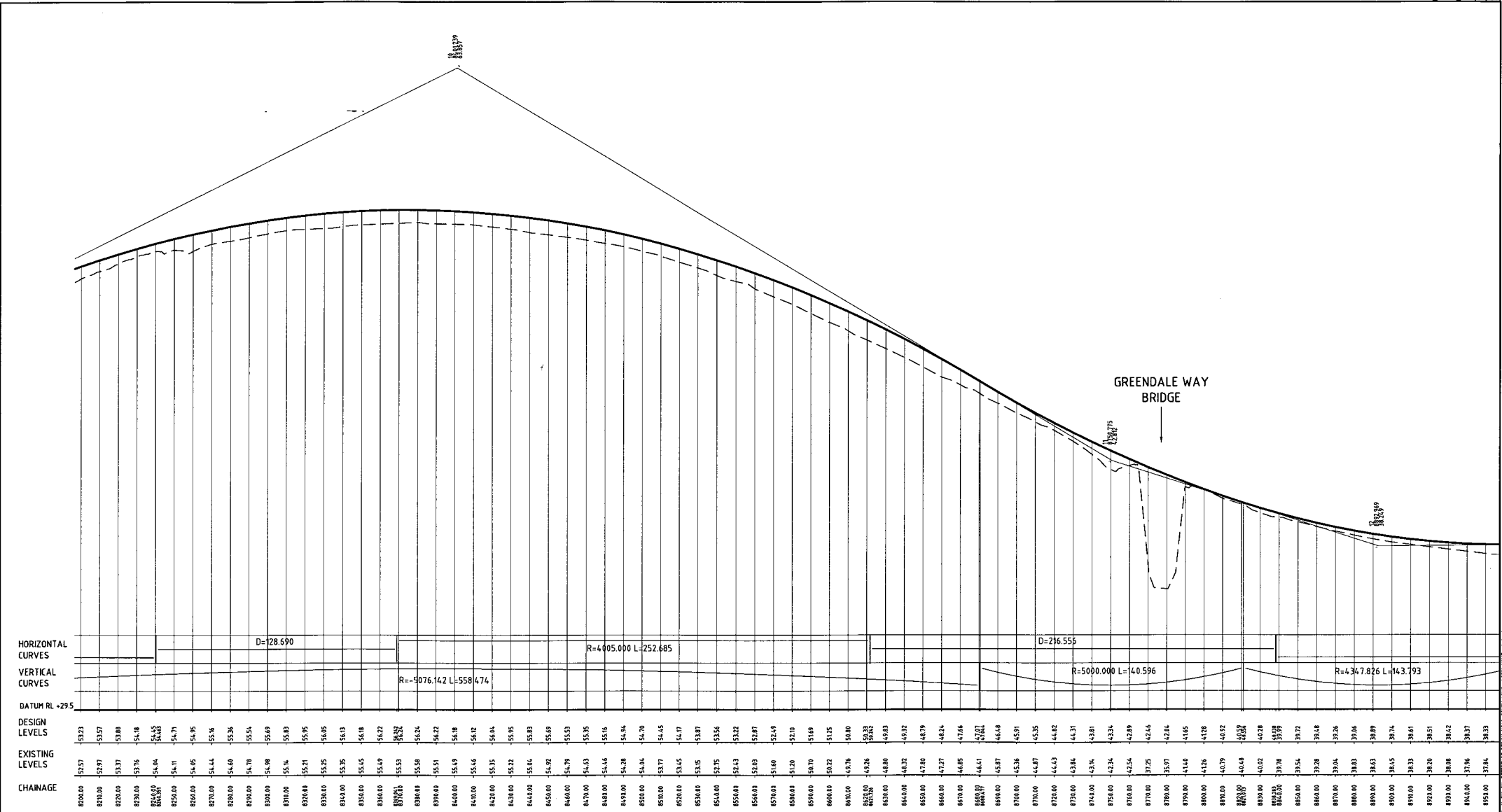
**PRELIMINARY**  
09-08-2004

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Revisions		Certified		Date		Microfiled		Associated job nos		Dimensions in metres except where shown otherwise Culvert sizes in millimetres.		Survey books		BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO											
Auxiliary drawing nos		Scales		1:100				Through chainage from		CH 5160 to CH 25250 Reference Points Preceding RPC    Dist. to start of job (km)    From start to end of job    From end to following RPC    Following RPC		Survey DMR Ckd						Bdys DMR Ckd		Drawn TB Ckd		Design ASM Ckd		Examined RPEQ	
A		Original issue		/ /				(Office use only)																	

**Queensland Government**  
Department of Main Roads  
JOB No. No.57 of 53 drgs  
Drawing No. LS004  
Contract No. A / /

CAD REF: CONNELL WAGNER



GREENDALE WAY BRIDGE

HORIZONTAL CURVES	VERTICAL CURVES	DATUM RL	DESIGN LEVELS	EXISTING LEVELS	CHAINAGE
D=28.690	R=4005.000 L=252.685	29.5	53.23	52.57	8700.00
			53.57	53.91	8710.00
			53.88	53.37	8720.00
			54.18	53.76	8730.00
			54.65	54.04	8740.00
			54.83	54.11	8750.00
			54.95	54.05	8760.00
			55.16	54.44	8770.00
			55.36	54.68	8780.00
			55.54	54.78	8790.00
			55.69	54.88	8800.00
			55.83	55.14	8810.00
			55.95	55.21	8820.00
			56.05	55.25	8830.00
			56.13	55.35	8840.00
			56.18	55.45	8850.00
			56.22	55.49	8860.00
			56.24	55.53	8870.00
			56.24	55.58	8880.00
			56.22	55.51	8890.00
			56.18	55.49	8900.00
			56.12	55.46	8910.00
			56.04	55.35	8920.00
			55.95	55.22	8930.00
			55.83	55.04	8940.00
			55.69	54.92	8950.00
			55.53	54.79	8960.00
			55.35	54.63	8970.00
			55.16	54.46	8980.00
			54.94	54.28	8990.00
			54.70	54.04	9000.00
			54.45	53.77	9010.00
			54.17	53.45	9020.00
			53.87	53.15	9030.00
			53.54	52.75	9040.00
			53.22	52.43	9050.00
			52.87	52.03	9060.00
			52.49	51.66	9070.00
			52.10	51.20	9080.00
			51.69	50.79	9090.00
			51.25	50.32	9100.00
			50.80	49.76	9110.00
			50.32	49.26	9120.00
			49.83	48.80	9130.00
			49.32	48.32	9140.00
			48.79	47.80	9150.00
			48.24	47.27	9160.00
			47.66	46.68	9170.00
			47.05	46.05	9180.00
			46.41	45.41	9190.00
			45.91	45.36	9200.00
			45.35	44.87	9210.00
			44.82	44.31	9220.00
			44.31	43.84	9230.00
			43.81	43.34	9240.00
			43.34	42.84	9250.00
			42.84	42.54	9260.00
			42.46	42.14	9270.00
			42.04	41.65	9280.00
			41.65	41.16	9290.00
			41.28	40.68	9300.00
			40.92	40.21	9310.00
			40.56	39.76	9320.00
			40.21	39.31	9330.00
			39.86	38.86	9340.00
			39.51	38.51	9350.00
			39.16	38.16	9360.00
			38.81	37.81	9370.00
			38.46	37.46	9380.00
			38.11	37.11	9390.00
			37.76	36.76	9400.00
			37.41	36.41	9410.00
			37.06	36.06	9420.00
			36.71	35.71	9430.00
			36.36	35.36	9440.00
			36.01	35.01	9450.00
			35.66	34.66	9460.00
			35.31	34.31	9470.00
			34.96	33.96	9480.00
			34.61	33.61	9490.00
			34.26	33.26	9500.00

**PRELIMINARY**  
09-08-2004

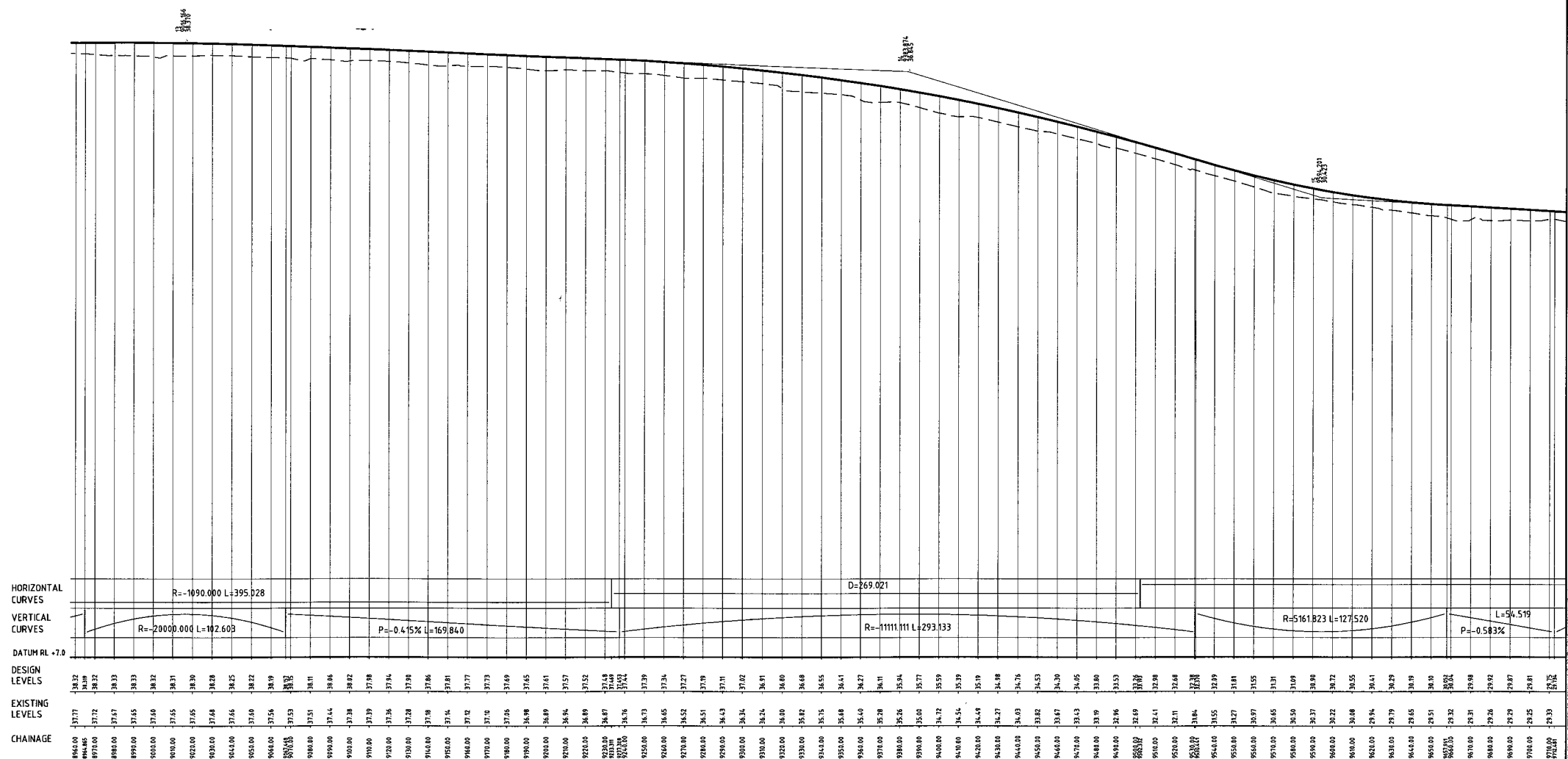
**Connell Wagner**  
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**Queensland Government**  
Department of Main Roads  
JOB No. No.58 of 53 drgs  
Drawing No. LS005  
Contract No. A  
CAD REF: CONNELL WAGNER

Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books
A	Original issue			(Office use only)	Scales 1:100 1:1000	Through chainage from

BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT CH 5160 to CH 25250			
Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC

REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO						
Survey Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd	Examined	Certified	Approved
				<i>[Signature]</i>	RPEQ 3297	//



**PRELIMINARY**  
09-08-2004

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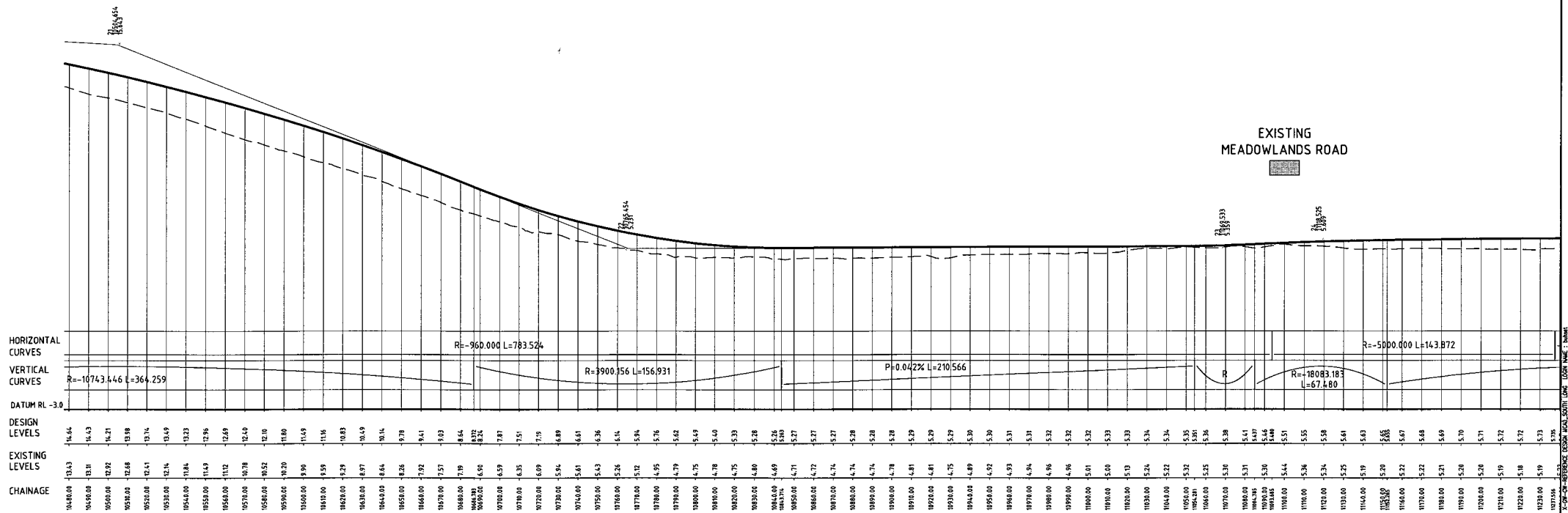
**Queensland Government**  
Department of Main Roads  
JOB No. No.59 of 53 drgs  
Drawing No. LS006  
Contract No. A  
CAD REF: CONNELL WAGNER

Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books
A	Original issue			(Office use only)	Scales 1:100  5 m 1:1000  50 m	Through chainage from

BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT			
CTL CHGE CH 5160 to CH 25250			
Reference Points			
Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC

REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO							
Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd	Examined	Certified	Approved	
				<i>[Signature]</i>	<i>[Signature]</i>	//	
					RPEQ 3297		





**PRELIMINARY**  
09-08-2004

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Geelong Vic 3207 Australia Email: info@connellwagner.com

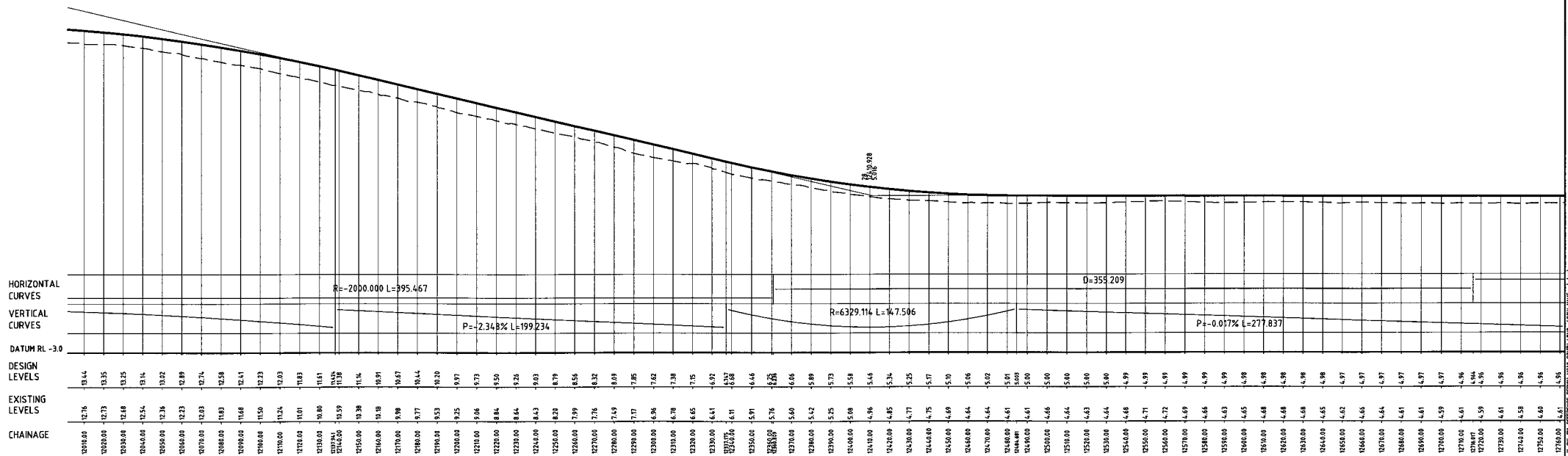
**Queensland Government**  
Department of Main Roads  
JOB No. No.61 of 53 drgs  
Drawing No. LS008  
Contract No. A  
CAD REF: CONNELL WAGNER

Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books	BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT				REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO						
				Auxiliary drawing nos	Scales	Through chainage from	CTL CHGE CH 5160 to CH 25250				Approved						
				(Office use only)	1:100 1:1000		Reference Points				Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd	Examined	Certified	Approved
A	Original issue						Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC	Following RPC						

10480.00 10490.00 10500.00 10510.00 10520.00 10530.00 10540.00 10550.00 10560.00 10570.00 10580.00 10590.00 10600.00 10610.00 10620.00 10630.00 10640.00 10650.00 10660.00 10670.00 10680.00 10690.00 10700.00 10710.00 10720.00 10730.00 10740.00 10750.00 10760.00 10770.00 10780.00 10790.00 10800.00 10810.00 10820.00 10830.00 10840.00 10850.00 10860.00 10870.00 10880.00 10890.00 10900.00 10910.00 10920.00 10930.00 10940.00 10950.00 10960.00 10970.00 10980.00 10990.00 11000.00 11010.00 11020.00 11030.00 11040.00 11050.00 11060.00 11070.00 11080.00 11090.00 11100.00 11110.00 11120.00 11130.00 11140.00 11150.00 11160.00 11170.00 11180.00 11190.00 11200.00 11210.00 11220.00 11230.00 11240.00 11250.00 11260.00 11270.00 11280.00 11290.00 11300.00 11310.00 11320.00 11330.00 11340.00 11350.00 11360.00 11370.00 11380.00 11390.00 11400.00 11410.00 11420.00 11430.00 11440.00 11450.00 11460.00 11470.00 11480.00 11490.00 11500.00 11510.00 11520.00 11530.00 11540.00 11550.00 11560.00 11570.00 11580.00 11590.00 11600.00 11610.00 11620.00 11630.00 11640.00 11650.00 11660.00 11670.00 11680.00 11690.00 11700.00 11710.00 11720.00 11730.00 11740.00 11750.00 11760.00 11770.00 11780.00 11790.00 11800.00 11810.00 11820.00 11830.00 11840.00 11850.00 11860.00 11870.00 11880.00 11890.00 11900.00 11910.00 11920.00 11930.00 11940.00 11950.00 11960.00 11970.00 11980.00 11990.00 12000.00 12010.00 12020.00 12030.00 12040.00 12050.00 12060.00 12070.00 12080.00 12090.00 12100.00 12110.00 12120.00 12130.00 12140.00 12150.00 12160.00 12170.00 12180.00 12190.00 12200.00 12210.00 12220.00 12230.00 12240.00 12250.00 12260.00 12270.00 12280.00 12290.00 12300.00 12310.00 12320.00 12330.00 12340.00 12350.00 12360.00 12370.00 12380.00 12390.00 12400.00 12410.00 12420.00 12430.00 12440.00 12450.00 12460.00 12470.00 12480.00 12490.00 12500.00







HORIZONTAL CURVES  
VERTICAL CURVES  
DATUM RL -3.0  
DESIGN LEVELS  
EXISTING LEVELS  
CHAINAGE

12010.00	12.76	13.44
12020.00	12.73	13.35
12030.00	12.68	13.25
12040.00	12.54	13.14
12050.00	12.36	13.02
12060.00	12.23	12.89
12070.00	12.03	12.74
12080.00	11.83	12.58
12090.00	11.68	12.41
12100.00	11.50	12.23
12110.00	11.24	12.03
12120.00	11.01	11.83
12130.00	10.80	11.61
12140.00	10.59	11.38
12150.00	10.38	11.14
12160.00	10.18	10.91
12170.00	9.98	10.67
12180.00	9.77	10.44
12190.00	9.53	10.20
12200.00	9.25	9.97
12210.00	9.06	9.73
12220.00	8.84	9.50
12230.00	8.64	9.26
12240.00	8.43	9.03
12250.00	8.20	8.79
12260.00	7.99	8.55
12270.00	7.76	8.32
12280.00	7.53	8.09
12290.00	7.27	7.85
12300.00	6.96	7.62
12310.00	6.78	7.38
12320.00	6.65	7.15
12330.00	6.41	6.92
12340.00	6.11	6.68
12350.00	5.91	6.44
12360.00	5.76	6.20
12370.00	5.60	6.06
12380.00	5.42	5.89
12390.00	5.25	5.73
12400.00	5.08	5.59
12410.00	4.96	5.46
12420.00	4.85	5.34
12430.00	4.77	5.25
12440.00	4.75	5.17
12450.00	4.69	5.10
12460.00	4.64	5.06
12470.00	4.64	5.02
12480.00	4.61	5.01
12490.00	4.61	5.00
12500.00	4.66	5.00
12510.00	4.64	5.00
12520.00	4.63	5.00
12530.00	4.64	5.00
12540.00	4.68	4.99
12550.00	4.71	4.99
12560.00	4.72	4.99
12570.00	4.69	4.99
12580.00	4.66	4.99
12590.00	4.63	4.99
12600.00	4.65	4.98
12610.00	4.68	4.98
12620.00	4.68	4.98
12630.00	4.68	4.98
12640.00	4.65	4.98
12650.00	4.62	4.97
12660.00	4.65	4.97
12670.00	4.64	4.97
12680.00	4.61	4.97
12690.00	4.61	4.97
12700.00	4.59	4.97
12710.00	4.61	4.96
12720.00	4.59	4.96
12730.00	4.61	4.96
12740.00	4.58	4.96
12750.00	4.60	4.96
12760.00	4.61	4.96

**PRELIMINARY**  
09-08-2004

**Connell Wagner**  
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 433 Boundary St, (Laird Bay 1800) Spring Hill Facsimile: +61 7 3246 1001  
 Queensland 4004 Australia Email: connell@connellwagner.com

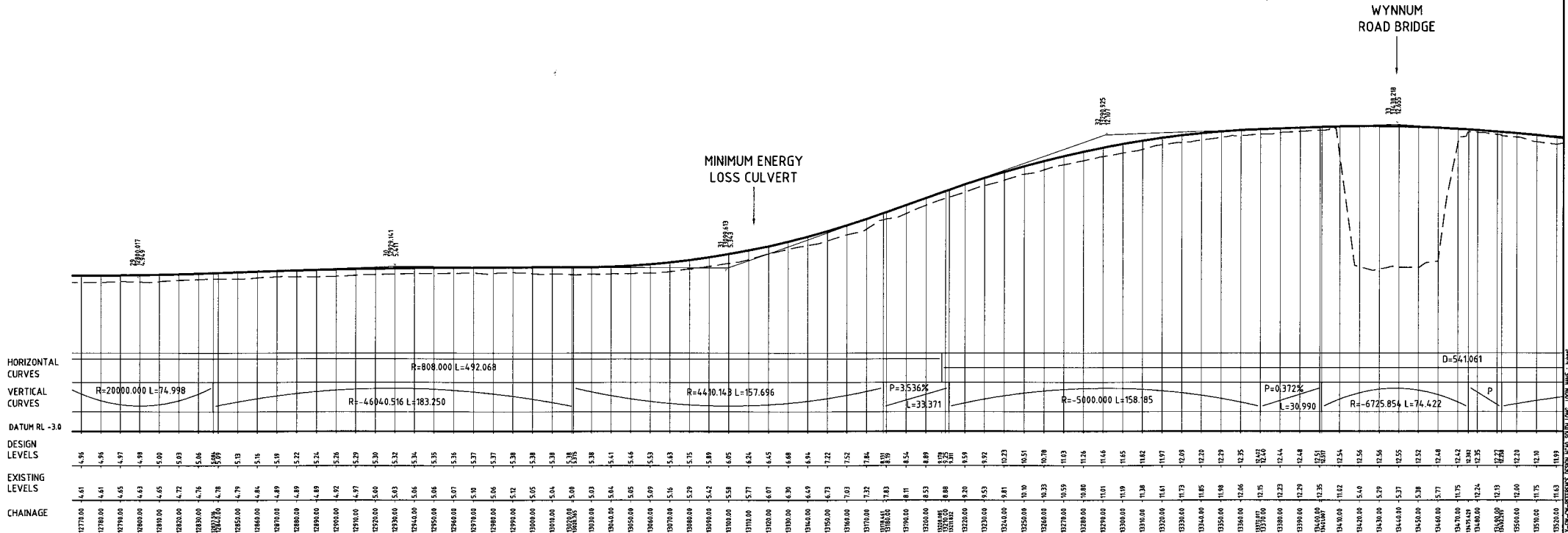
**Queensland Government**  
 Department of Main Roads  
 JOB No. No.63 of 53 drgs  
 Drawing No. LS010  
 Contract No. A  
 CAD REF: CONNELL WAGNER

Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books
				Auxiliary drawing nos	Scales	Through chainage from
					1:100	
					1:1000	
A	Original issue			(Office use only)		

BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT			
Reference Points			
Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC

REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO					
Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd	Examined RPEQ	Certified
					<i>[Signature]</i>
					3297
					Approved
					//

REF: 592 LMS.DEP.L1.C1.CP.CP-CP-RESERVE.DWG.MCAO\_SOUTH.CAD 100% WAE: 09/08/04



**PRELIMINARY**  
09-08-2004

**Connell Wagner**  
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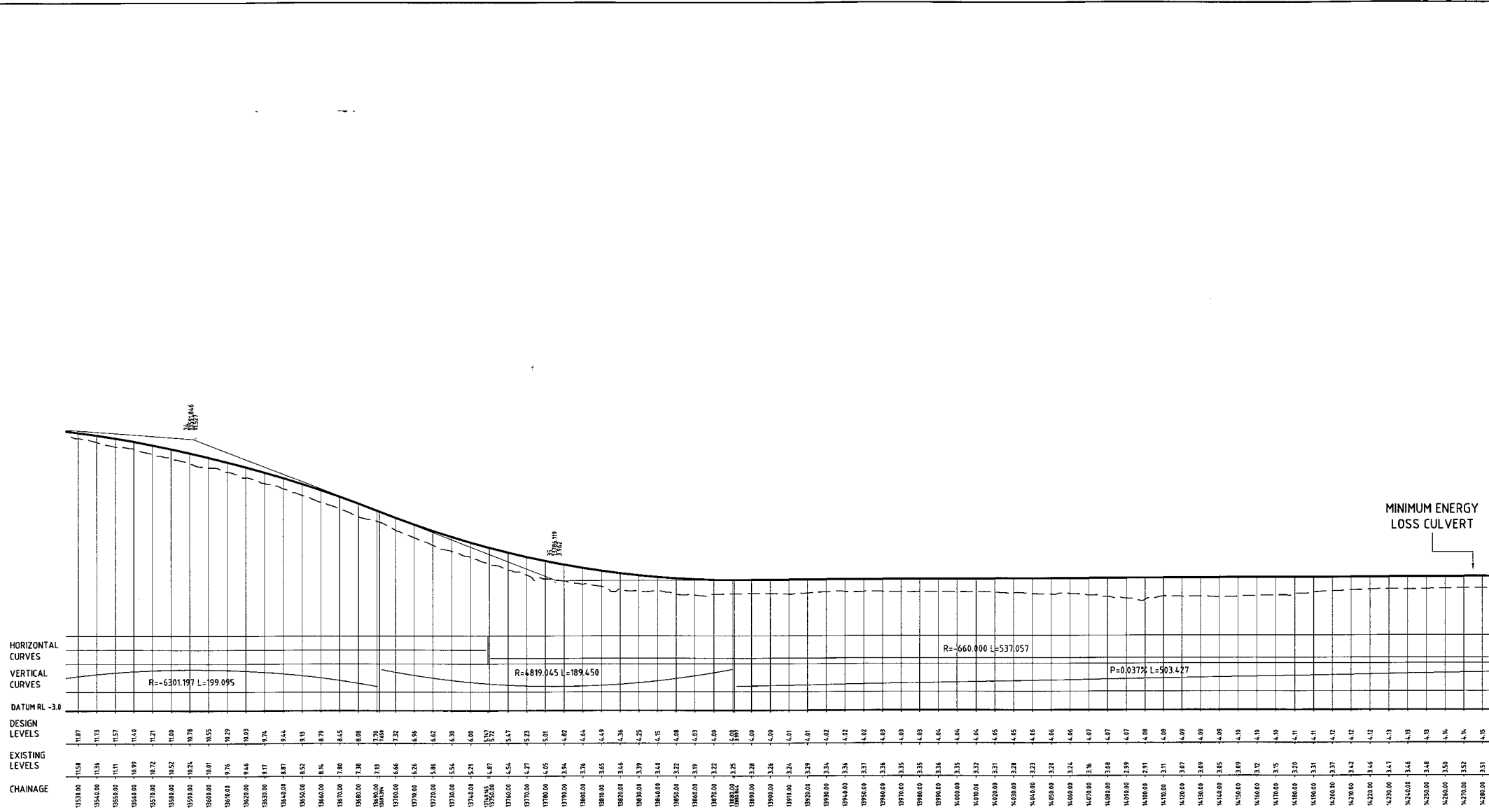
**Queensland Government**  
Department of Main Roads  
JOB No. No.64 of 53 drgs  
Drawing No. LS011  
Contract No. A  
CAD REF: CONNELL WAGNER

Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books
				Auxiliary drawing nos	Scales 1:100 1:1000	Through chainage from
A	Original issue			(Office use only)		

BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT				REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO			
CTL CHGE				CH 5160 to CH 25250			
Reference Points				Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd
Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC	Examined Certified Approved			

Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd	Examined	Certified	Approved
				<i>[Signature]</i>	RPEQ 3297	//

REF: 5392.MRR.CH5160.CH 5160 TO CH 25250.DWG 09-08-2004



HORIZONTAL CURVES	VERTICAL CURVES	DATUM RL -3.0	DESIGN LEVELS	EXISTING LEVELS	CHAINAGE
	R=6301.197 L=199.095		11.87	11.58	13538.00
			11.13	11.36	13540.00
			11.57	11.11	13550.00
			11.60	10.99	13540.00
			11.21	10.72	13570.00
			11.00	10.52	13580.00
			10.78	10.78	13590.00
			10.55	10.81	13600.00
			10.29	10.76	13610.00
			10.03	10.66	13620.00
			9.74	10.46	13630.00
			9.44	10.21	13640.00
			9.13	10.02	13650.00
			8.79	9.84	13660.00
			8.45	9.68	13670.00
			8.08	9.54	13680.00
			7.77	9.42	13690.00
			7.32	9.32	13700.00
			6.86	9.24	13710.00
			6.62	9.17	13720.00
			6.30	9.11	13730.00
			6.00	9.06	13740.00
			5.72	9.02	13750.00
			5.47	8.99	13760.00
			5.23	8.97	13770.00
			5.01	8.96	13780.00
			4.82	8.95	13790.00
			4.64	8.94	13800.00
			4.49	8.94	13810.00
			4.36	8.94	13820.00
			4.25	8.94	13830.00
			4.15	8.94	13840.00
			4.08	8.94	13850.00
			4.03	8.94	13860.00
			4.00	8.94	13870.00
			4.00	8.94	13880.00
			4.01	8.94	13890.00
			4.02	8.94	13900.00
			4.03	8.94	13910.00
			4.04	8.94	13920.00
			4.05	8.94	13930.00
			4.06	8.94	13940.00
			4.06	8.94	13950.00
			4.07	8.94	13960.00
			4.07	8.94	13970.00
			4.07	8.94	13980.00
			4.07	8.94	13990.00
			4.08	8.94	14000.00
			4.08	8.94	14010.00
			4.08	8.94	14020.00
			4.08	8.94	14030.00
			4.08	8.94	14040.00
			4.08	8.94	14050.00
			4.08	8.94	14060.00
			4.08	8.94	14070.00
			4.08	8.94	14080.00
			4.08	8.94	14090.00
			4.08	8.94	14100.00
			4.09	8.94	14110.00
			4.09	8.94	14120.00
			4.09	8.94	14130.00
			4.09	8.94	14140.00
			4.09	8.94	14150.00
			4.09	8.94	14160.00
			4.09	8.94	14170.00
			4.09	8.94	14180.00
			4.09	8.94	14190.00
			4.09	8.94	14200.00
			4.09	8.94	14210.00
			4.09	8.94	14220.00
			4.09	8.94	14230.00
			4.09	8.94	14240.00
			4.09	8.94	14250.00
			4.09	8.94	14260.00
			4.09	8.94	14270.00
			4.09	8.94	14280.00
			4.09	8.94	14290.00
			4.09	8.94	14300.00

MINIMUM ENERGY LOSS CULVERT

**PRELIMINARY**  
09-08-2004

**ConnellWagner**

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**Queensland Government**  
Department of Main Roads

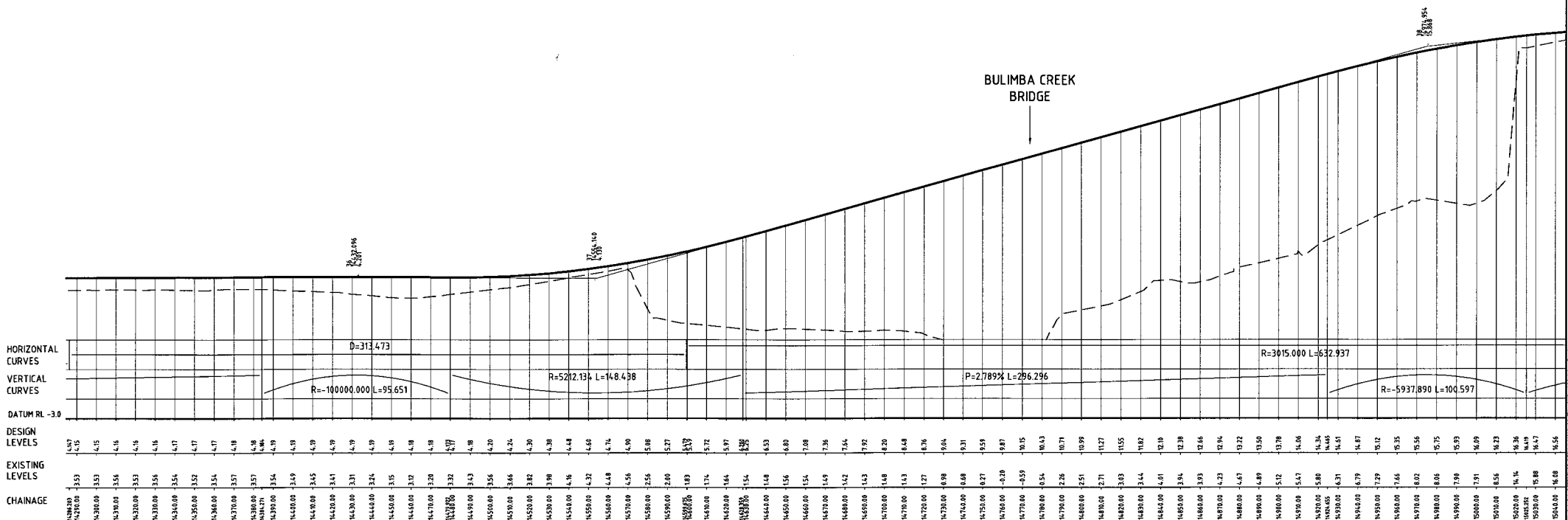
JOB No. **No.65** of 53 drgs  
Drawing No. **LS012**

Contract No. \_\_\_\_\_ Approved //

CAD REF: CONNELL WAGNER

Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books
A				(Office use only)	Scales: 1:100 1:1000	Through chainage from

BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT				REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO						
<i>CTL CHGE</i>				CH 5160 to CH 25250						
Reference Points				Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd	Examined	Certified	Approved
Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC							
								RPEQ 3297		



**PRELIMINARY**  
09-08-2004

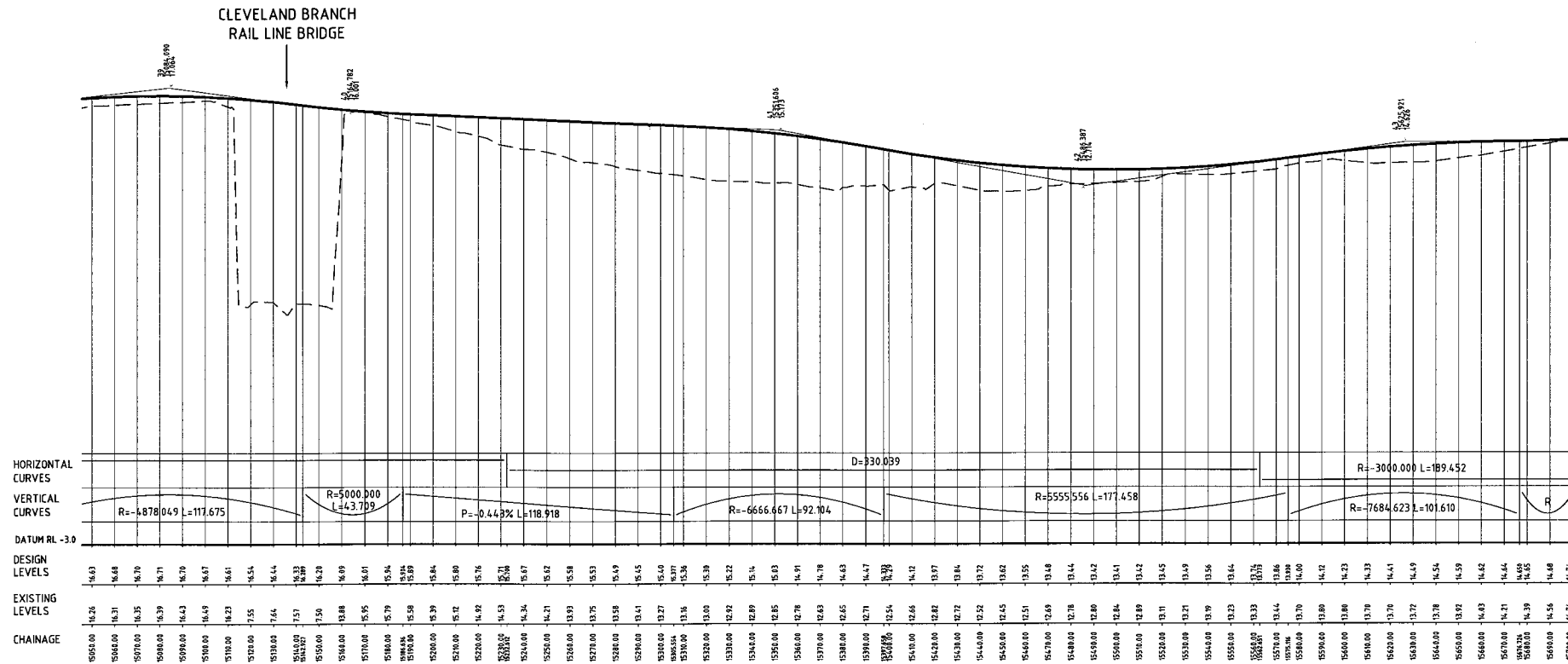
**ConnellWagner**  
Connell Wagner Pty Ltd ABN 54 005 139 873 Telephone: +61 7 3248 1000  
433 Bluemelby St, Queensland (Brisbane) 4000 Fax: +61 7 3248 1001  
ConnellWagner.com.au

Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books
				Auxiliary drawing nos	Scales	Through chainage from
					1:100	
					1:1000	
A	Original issue			(Office use only)		

BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT				
CTL CHGE CH 5160 to CH 25250				
Reference Points				
Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC	Following RPC

REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO					
Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd	Examined	Certified
					Approved
					RPEQ 3297

Queensland Government  
Department of Main Roads  
JOB No. No.66 of 53 drgs  
Drawing No. LS013  
Contract No. A  
CAD REF: CONNELL WAGNER



**PRELIMINARY**  
09-08-2004

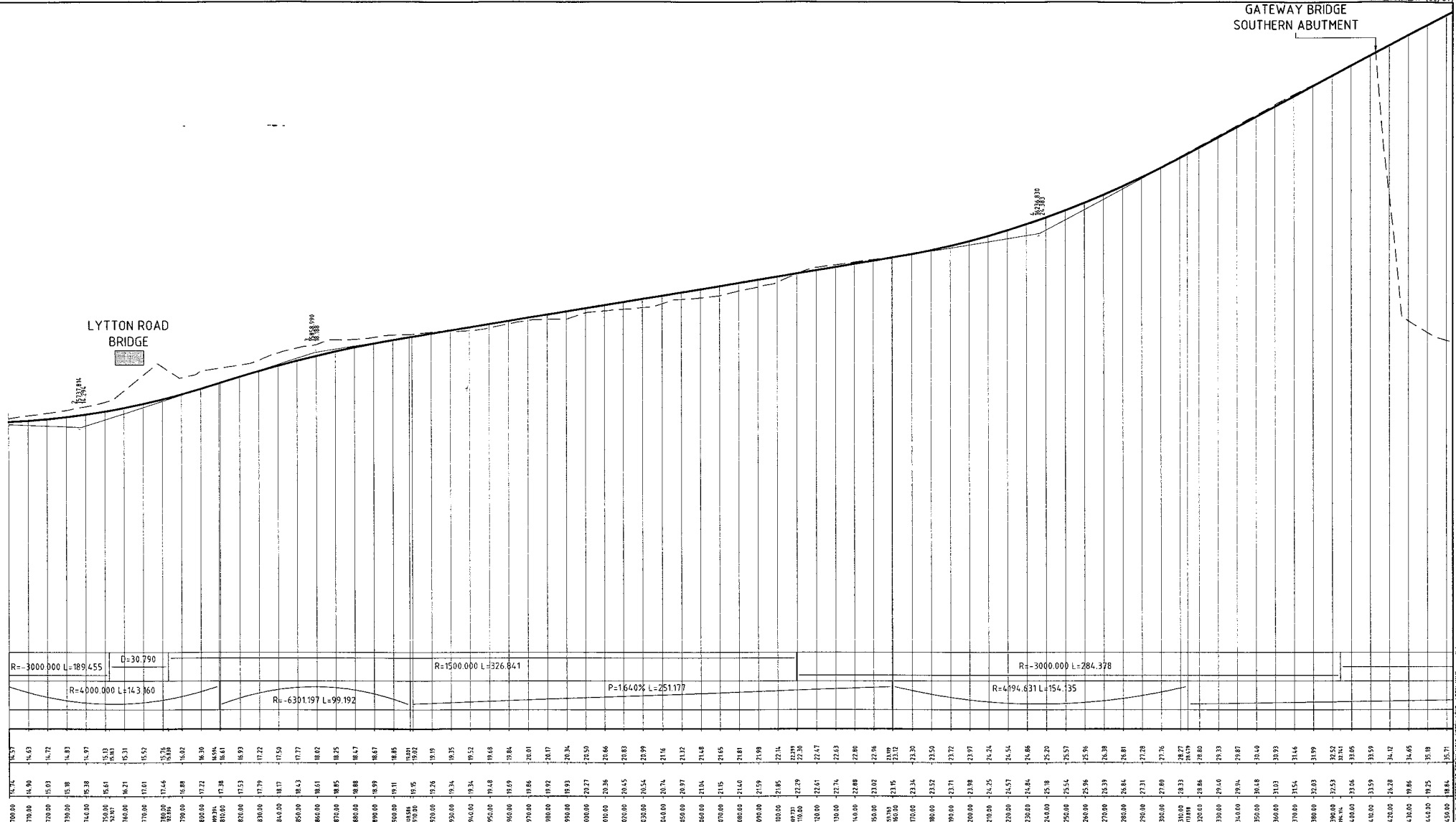
**ConnellWagner**  
Connell Wagner Pty Ltd ABN 54 005 139 873 Telephone: +61 7 3348 1000  
133 Boundary St. (Locked Bay 1800) Spring Hill Brisbane QLD 4000  
Fax: +61 7 3348 1001 Email: connellwagner.com.au

**Queensland Government**  
Department of Main Roads  
JOB No. No.67 of 53 drgs  
Drawing No. LS014  
Contract No. A  
CAD REF: CONNELL WAGNER

Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books	BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT				REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO						
				Auxiliary drawing nos	Scales 1:100 1:1000	Through chainage from	CTL CHGE CH 5160 to CH 25250				Survey DMR Ckd	Bdys DMR Ckd	Drown TB Ckd	Design ASM Ckd	Examined Ckd	Certified RPEQ 3297	Approved //
A	Original issue			(Office use only)			Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC	Following RPC						

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GATEWAY BRIDGE  
SOUTHERN ABUTMENT



HORIZONTAL CURVES	R=3000.000 L=189.455	D=30.790	R=15000.000 L=526.641	P=1.640% L=251.177	R=4000.000 L=143.360	R=6301.197 L=99.192	R=4194.831 L=154.335	R=3000.000 L=284.378
VERTICAL CURVES								
DATUM RL -6.0								
DESIGN LEVELS	16.57	16.43	16.72	16.81	16.97	16.81	16.46	16.12
EXISTING LEVELS	16.74	16.90	16.53	16.38	16.61	16.41	16.52	16.33
CHAINAGE	15700.00	15700.00	15700.00	15700.00	15700.00	15700.00	15700.00	15700.00

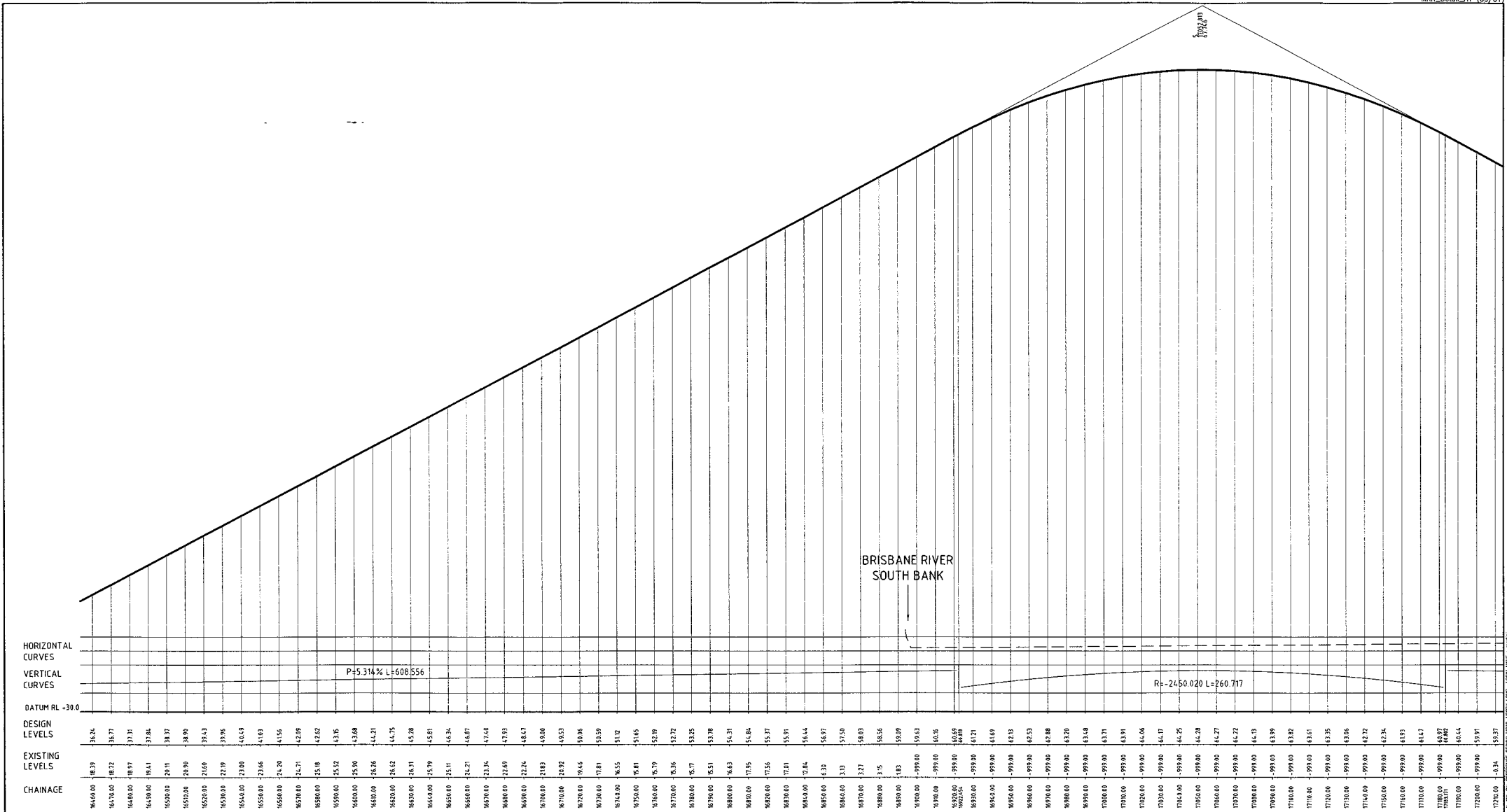
LONGITUDINAL SECTION ALONG DESIGN CONTROL LINE MCAO  
1:1000H 1:100V

PRELIMINARY  
09-08-2004

**Connell Wagner**  
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 Fax: +61 7 3246 1001 Email: connell@connellwagner.com

Revisions	Certified	Date	Microfided	Associated job nos	Dimensions in metres except where shown otherwise Culvert sizes in millimetres.	Survey books	BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT				REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO							
				Auxiliary drawing nos	Scales 1:100	Through change from	CTL CHGE CH 5160 to CH 25250				Queensland Government Department of Main Roads JOB No. No.68 of 53 drgs Drawing No. LS015							
A Original issue					(Office use only)	1:1000	Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC	Following RPC	Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd	Examined	Certified	Approved
												Contract No.	//					
												CAO REF:						

DRAWN BY: S. SMITH CHECKED BY: A. SMITH DESIGN BY: S. SMITH DATE: 09/08/04



HORIZONTAL CURVES	
VERTICAL CURVES	P=5.314% L=608.556
DATUM RL -30.0	
DESIGN LEVELS	
EXISTING LEVELS	
CHAINAGE	16460.00 18.39 16470.00 18.72 16480.00 18.97 16490.00 19.41 16500.00 20.11 16510.00 20.90 16520.00 21.69 16530.00 22.19 16540.00 23.00 16550.00 23.66 16560.00 24.20 16570.00 24.71 16580.00 25.18 16590.00 25.52 16600.00 25.90 16610.00 26.26 16620.00 26.62 16630.00 26.31 16640.00 25.79 16650.00 25.11 16660.00 24.21 16670.00 23.24 16680.00 22.69 16690.00 22.24 16700.00 21.83 16710.00 20.92 16720.00 19.66 16730.00 17.81 16740.00 16.55 16750.00 15.81 16760.00 15.79 16770.00 15.36 16780.00 15.17 16790.00 15.51 16800.00 16.63 16810.00 17.95 16820.00 17.56 16830.00 17.21 16840.00 12.84 16850.00 6.30 16860.00 3.19 16870.00 3.27 16880.00 3.15 16890.00 1.83 16900.00 -999.00 16910.00 -999.00 16920.00 -999.00 16930.00 -999.00 16940.00 -999.00 16950.00 -999.00 16960.00 -999.00 16970.00 -999.00 16980.00 -999.00 16990.00 -999.00 17000.00 -999.00 17010.00 -999.00 17020.00 -999.00 17030.00 -999.00 17040.00 -999.00 17050.00 -999.00 17060.00 -999.00 17070.00 -999.00 17080.00 -999.00 17090.00 -999.00 17100.00 -999.00 17110.00 -999.00 17120.00 -999.00 17130.00 -999.00 17140.00 -999.00 17150.00 -999.00 17160.00 -999.00 17170.00 -999.00 17180.00 -999.00 17190.00 -999.00 17200.00 -999.00

BRISBANE RIVER  
SOUTH BANK

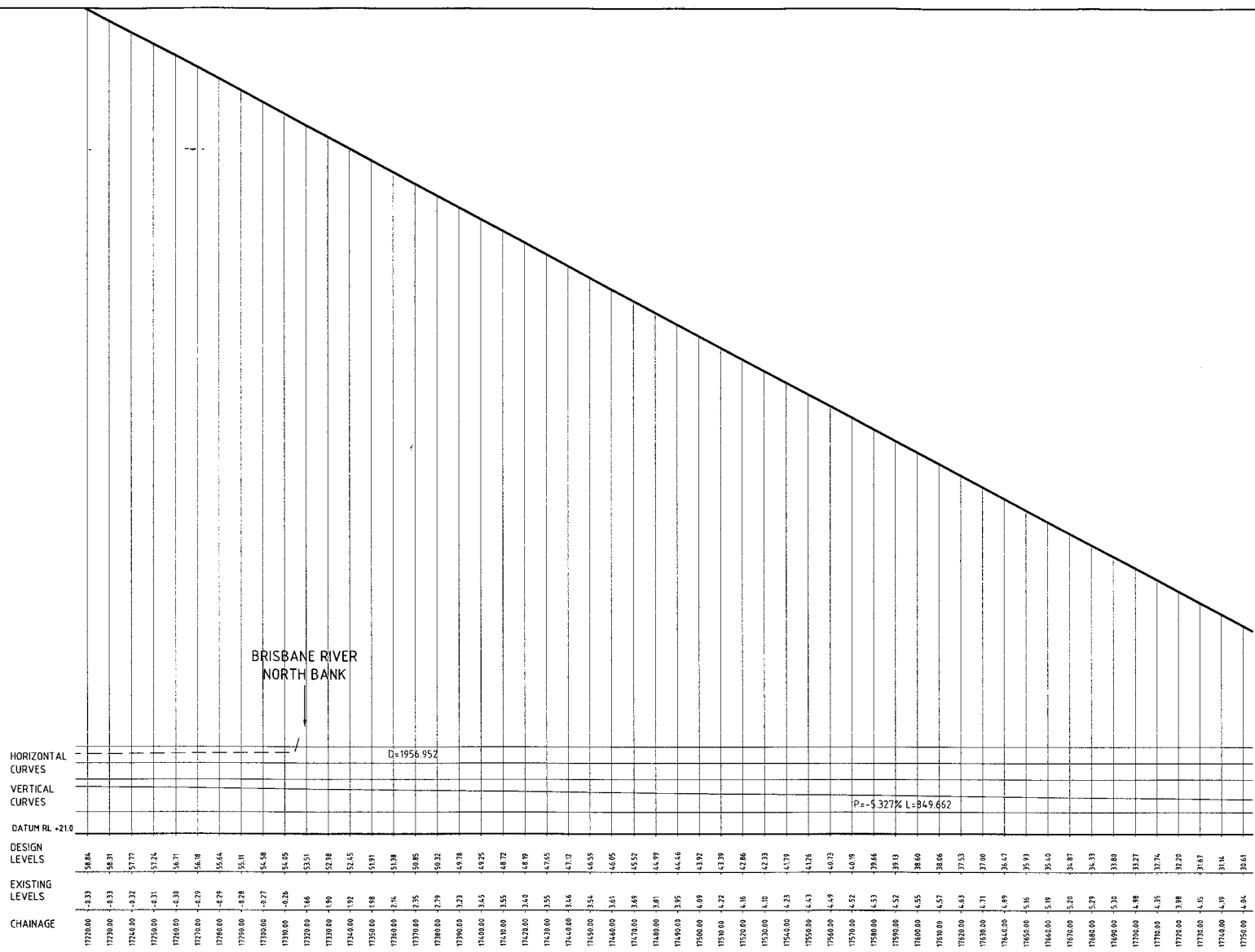
**PRELIMINARY**  
09-08-2004

**Connell Wagner**  
Connell Wagner Pty Ltd ABN 54 005 135 873 Telephone: +61 7 3246 1000  
433 Boundary St. (Locked Bag 1800) Spring Hill Facsimile: +61 7 3246 1001  
Queensland 4001 Australia Email: sales@connellwagner.com

Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise Culvert sizes in millimetres.	Survey books	BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT				REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO						
				Auxiliary drawing nos	Scales 1:100 1:1000	Through chainage from	CTL CHGE CH 5160 to CH 25250				Drawn TB	Design ASM	Examined	Certified <i>[Signature]</i> RPEQ 3297	Approved		
A	Original issue			(Office use only)		Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC	Following RPC	Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd	Examined	Certified	Approved
												Contract No. //					
												CAD REF:					

**Queensland Government**  
Department of Main Roads  
JOB No. No.69 of 53 drgs  
Drawing No. LS016  
A





DESIGN LEVELS	EXISTING LEVELS	CHAINAGE
58.84	58.33	17220.00
58.31	58.33	17230.00
57.77	57.32	17240.00
57.24	57.31	17250.00
56.71	56.30	17260.00
56.18	56.29	17270.00
55.64	55.28	17280.00
55.11	55.28	17290.00
54.58	54.27	17300.00
54.05	54.26	17310.00
53.51	53.26	17320.00
52.98	52.25	17330.00
52.45	52.25	17340.00
51.91	51.24	17350.00
51.38	51.23	17360.00
50.85	50.23	17370.00
50.32	50.22	17380.00
49.78	49.21	17390.00
49.25	49.21	17400.00
48.72	48.20	17410.00
48.19	48.20	17420.00
47.65	47.19	17430.00
47.12	47.19	17440.00
46.59	46.18	17450.00
46.05	46.18	17460.00
45.52	45.17	17470.00
44.99	44.16	17480.00
44.46	44.16	17490.00
43.93	43.15	17500.00
43.39	43.15	17510.00
42.86	42.14	17520.00
42.33	42.14	17530.00
41.79	41.13	17540.00
41.26	41.13	17550.00
40.73	40.12	17560.00
40.19	40.12	17570.00
39.66	39.11	17580.00
39.13	39.11	17590.00
38.60	38.10	17600.00
38.06	38.10	17610.00
37.53	37.09	17620.00
37.00	37.09	17630.00
36.47	36.08	17640.00
35.93	36.08	17650.00
35.40	35.07	17660.00
34.87	35.07	17670.00
34.33	34.06	17680.00
33.80	34.06	17690.00
33.27	33.05	17700.00
32.74	33.05	17710.00
32.20	32.04	17720.00
31.67	32.04	17730.00
31.14	31.03	17740.00
30.61	31.03	17750.00

**PRELIMINARY**  
09-08-2004

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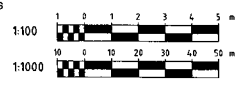
**Queensland Government**  
Department of Main Roads

**JOB No.** No.70 of 53 drgs  
**LS017**

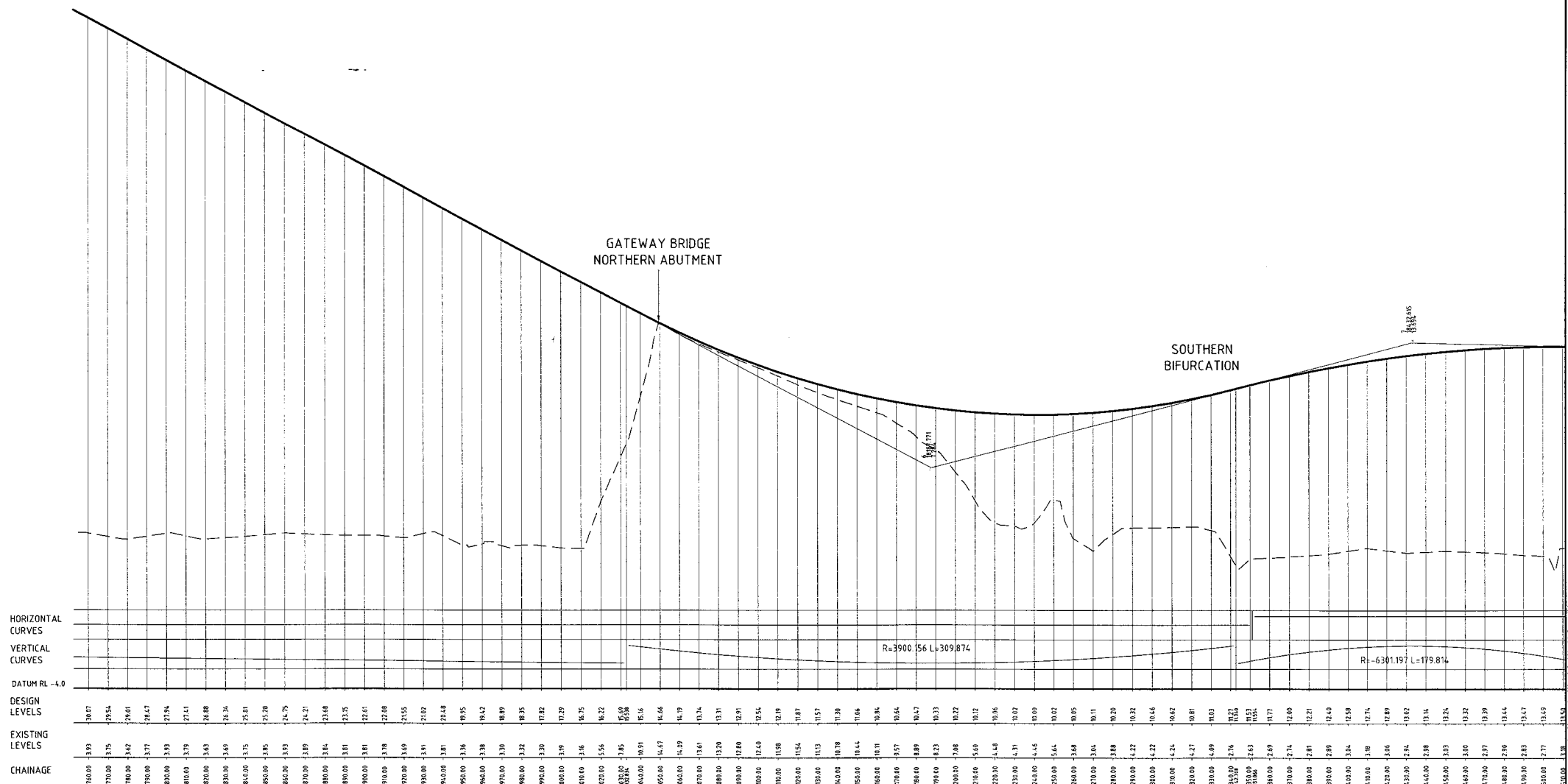
**Contract No.** //

**CAO REF:**

Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books	<b>BRISBANE CITY COUNCIL</b>				<b>REFERENCE PROJECT</b>																																				
				Auxiliary drawing nos			<b>GATEWAY UPGRADE PROJECT</b>				<b>LONGITUDINAL SECTIONS</b>																																				
				(Office use only)			Scales	Through chainage from				<b>CONTROL LINE MCAO</b>																																			
							1:100 1:1000	CTL CHGE				CH 5160 to CH 25250																																			
A Original issue						<table border="1"> <tr><th>Reference Points</th><th>Survey</th><th>Bdys</th><th>Drawn</th><th>Design</th><th>Examined</th><th>Certified</th><th>Approved</th></tr> <tr><td>Preceding RPC</td><td>Dist. to start of job (km)</td><td>From end to following RPC</td><td>Following RPC</td><td>Ckd</td><td>Ckd</td><td>Ckd</td><td>Ckd</td></tr> </table>				Reference Points	Survey	Bdys	Drawn	Design	Examined	Certified	Approved	Preceding RPC	Dist. to start of job (km)	From end to following RPC	Following RPC	Ckd	Ckd	Ckd	Ckd	<table border="1"> <tr><th colspan="2">Reference Points</th><th>Survey</th><th>Bdys</th><th>Drawn</th><th>Design</th><th>Examined</th><th>Certified</th><th>Approved</th></tr> <tr><td>From start to end of job</td><td>From end to following RPC</td><td>Ckd</td><td>Ckd</td><td>Ckd</td><td>Ckd</td><td>Ckd</td><td>Ckd</td><td>Ckd</td></tr> </table>				Reference Points		Survey	Bdys	Drawn	Design	Examined	Certified	Approved	From start to end of job	From end to following RPC	Ckd	Ckd	Ckd	Ckd	Ckd	Ckd	Ckd
Reference Points	Survey	Bdys	Drawn	Design	Examined	Certified	Approved																																								
Preceding RPC	Dist. to start of job (km)	From end to following RPC	Following RPC	Ckd	Ckd	Ckd	Ckd																																								
Reference Points		Survey	Bdys	Drawn	Design	Examined	Certified	Approved																																							
From start to end of job	From end to following RPC	Ckd	Ckd	Ckd	Ckd	Ckd	Ckd	Ckd																																							



MRR - 5792\_MRR\_DETAIL\_A1\_K-04-CH-REFERENCE\_SECTION\_MCAO\_LONGITUDINAL\_SECTION - 09/08/2004



CHAINAGE	EXISTING LEVELS	DESIGN LEVELS	DATUM RL -4.0	VERTICAL CURVES	HORIZONTAL CURVES
17160.00	3.93	3.07			
17170.00	3.75	2.94			
17180.00	3.62	2.81			
17190.00	3.51	2.67			
17200.00	3.39	2.74			
17210.00	3.29	2.71			
17220.00	3.63	2.68			
17230.00	3.69	2.63			
17240.00	3.75	2.51			
17250.00	3.85	2.70			
17260.00	3.83	2.75			
17270.00	3.89	2.42			
17280.00	3.84	2.34			
17290.00	3.81	2.35			
17300.00	3.81	2.26			
17310.00	3.78	2.28			
17320.00	3.69	2.15			
17330.00	3.81	2.12			
17340.00	3.81	2.04			
17350.00	3.36	1.95			
17360.00	3.38	1.94			
17370.00	3.30	1.89			
17380.00	3.32	1.83			
17390.00	3.30	1.72			
17400.00	3.19	1.79			
17410.00	3.16	1.75			
17420.00	3.56	1.72			
17430.00	3.65	1.68			
17440.00	3.81	1.56			
17450.00	3.67	1.46			
17460.00	3.59	1.49			
17470.00	3.61	1.34			
17480.00	3.20	1.33			
17490.00	3.20	1.29			
17500.00	3.20	1.21			
17510.00	3.20	1.25			
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17760.00	3.11	1.04			
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17970.00	3.11	1.04			
17980.00	3.11	1.04			
17990.00	3.11	1.04			
18000.00	3.11	1.04			

**PRELIMINARY**  
09-08-2004

**Connell Wagner**  
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 433 Boundary St. (Locked Bag 1800) Spring Hill Queensland 4004 Australia Fax: +61 7 3246 1001  
 Email: cwn@connellwagner.com.au

Revisions				Certified	Date	Microfilmed	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books	BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT						REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO						
Auxiliary drawing nos				Scales 1:100 1:1000			Through chainage from	CTL CHGE CH 5160 to CH 25250						Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd	Examined	Certified	Approved	No.71 of 53 drgs Drawing No. <b>LS018</b>	
A				Original issue				(Office use only)	Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC	Following RPC								Contract No. //	

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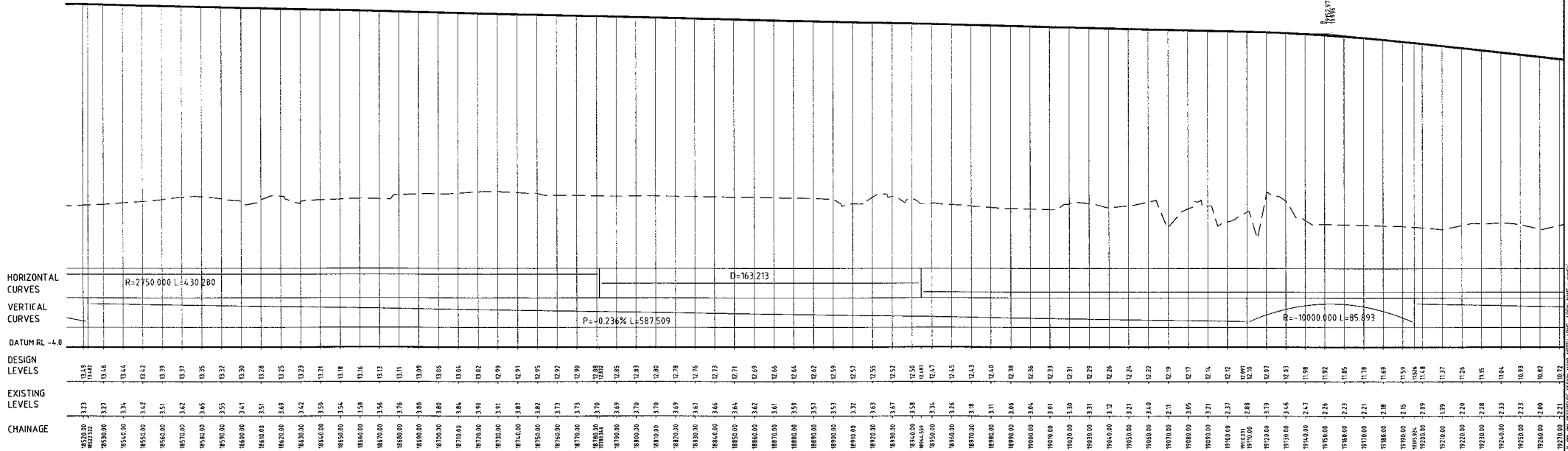
LAVARACK AVENUE  
BRIDGE

KINGSFORD SMITH  
DRIVE BRIDGE

GJ JAMES FACTORY  
BRIDGE

PINKENBA RAIL  
LINE BRIDGE

TERMINAL  
DRIVE



**PRELIMINARY**  
09-08-2004

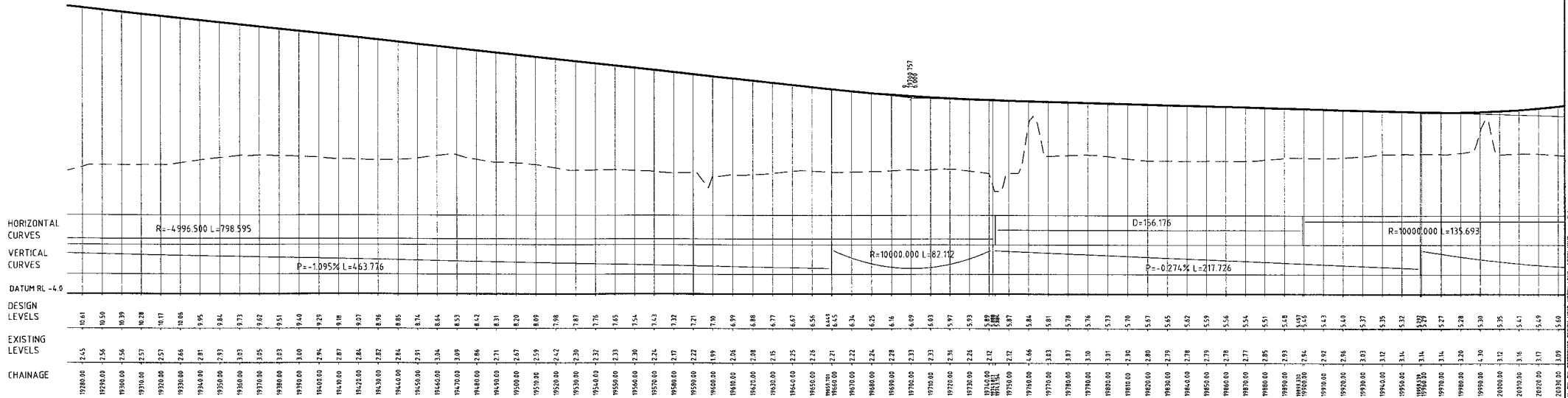
**Connell Wagner**  
Department of Main Roads  
Connell Wagner Pty Ltd ABN 54 005 139 873 Telephone: +61 7 3246 1000  
43 Boundary St, Locked Bag 1800 Spring Hill Facsimile: +61 7 3246 1001  
Brisbane QLD Australia Email: connel@connel.com.au

**Queensland Government**  
Department of Main Roads  
JOB No. No.72 of 53 drgs  
Drawing No. LS019  
Contract No. //  
CAD REF:

Revisions	Certified	Date	Microfied	Associated job nos	Dimensions in metres except where shown otherwise, Culvert sizes in millimetres.	Survey books
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					1:100	
					1:1000	
A	Original issue			(Office use only)		

BRISBANE CITY COUNCIL			
GATEWAY UPGRADE PROJECT			
REFERENCE PROJECT			
LONGITUDINAL SECTIONS			
CONTROL LINE MCAO			
CTL CHGE	CH 5160 to CH 25250		
Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC
Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd

Examined	Certified	Approved
RPEQ 3297		



**PRELIMINARY**  
09-08-2004

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**Queensland Government**  
Department of Main Roads  
JOB No. No.73 off 53 drgs  
Drawing No. **LS020**

Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books
				Auxiliary drawing nos	Scales	Through chainage from
				(Office use only)	1:100 1:1000	
A	Original issue					

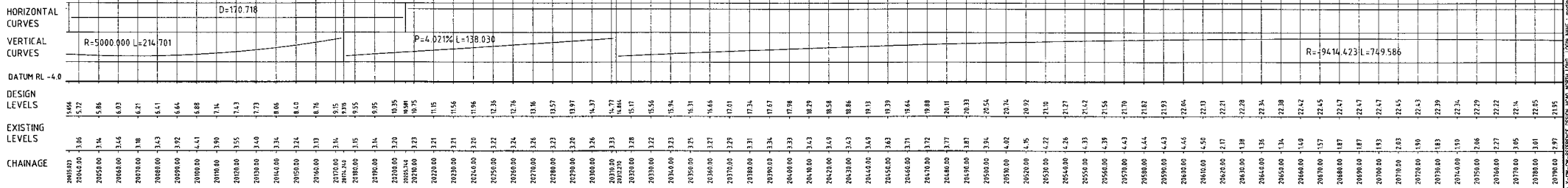
BRISBANE CITY COUNCIL			
GATEWAY UPGRADE PROJECT			
REFERENCE PROJECT			
LONGITUDINAL SECTIONS			
CONTROL LINE MCAO			
CTL CHGE	CH 5160 to CH 25250		
Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC
Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd

Examined	Certified	Approved
<i>[Signature]</i>	<i>[Signature]</i>	
IRPEQ 3297		
Contract No.	//	
CAO REF:		

P:\03\2004\12\20\LS020.dwg MRR - SITE - MRR\_DET\_A1.X - CH - REFERENCE DESIGN MCAO - LONG - LS020.dwg

BRISBANE AIRPORT RAIL LINE AND AIRPORT DRIVE BRIDGE

BRISBANE AIRPORT RAIL LINE



**PRELIMINARY**  
09-08-2004

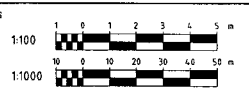
**Connell Wagner**  
Connell Wagner Pty Ltd ABN 54 005 130 873 Telephone +61 7 3245 1000  
43 Boundary St. (Excl. Bdg 1600) Spring Hill QLD 4000 Australia  
Fax +61 7 3246 1001 Email: connell@connellwagner.com.au

**Queensland Government**  
Department of Main Roads  
JOB No. No.74 of 53 drgs  
Drawing No. **LS021**  
Contract No. //  
CAB REF:

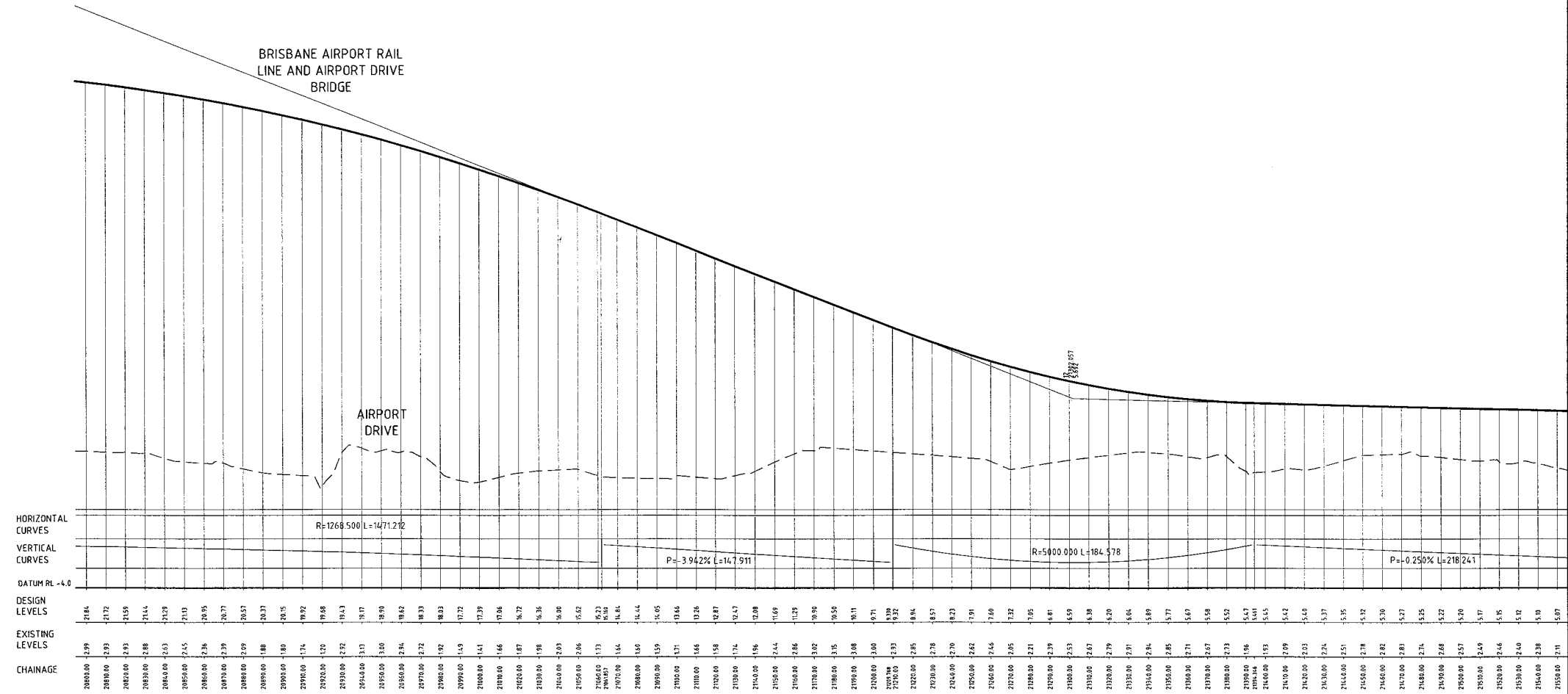
Revisions	Certified	Date	Microfilmed	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books
A				(Office use only)		

BRISBANE CITY COUNCIL				REFERENCE PROJECT			
GATEWAY UPGRADE PROJECT				LONGITUDINAL SECTIONS			
CTL CHGE				CONTROL LINE MCAO			
CH 5160 to CH 25250							
Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC	Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd

Examined	Certified	Approved
ASME	RPEQ 3297	//



6/08/2004 13:24:41 F:\A\5790\KSP\KSP\06011015-028.dwg WER : 5792\_MRR\_DETAL\_A1\_X-CH-CON-REFERENCE SECTION NORTH END LOOM NAME : road



**PRELIMINARY**  
09-08-2004

**Connell Wagner**  
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 Queensland 4004 Australia Email: info@connellwagner.com

Revisions	Certified	Date	Microfiled	Associated job nos	Auxiliary drawing nos
A	Original issue				

Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books
Scales 1:100 1:1000	Through chainage from

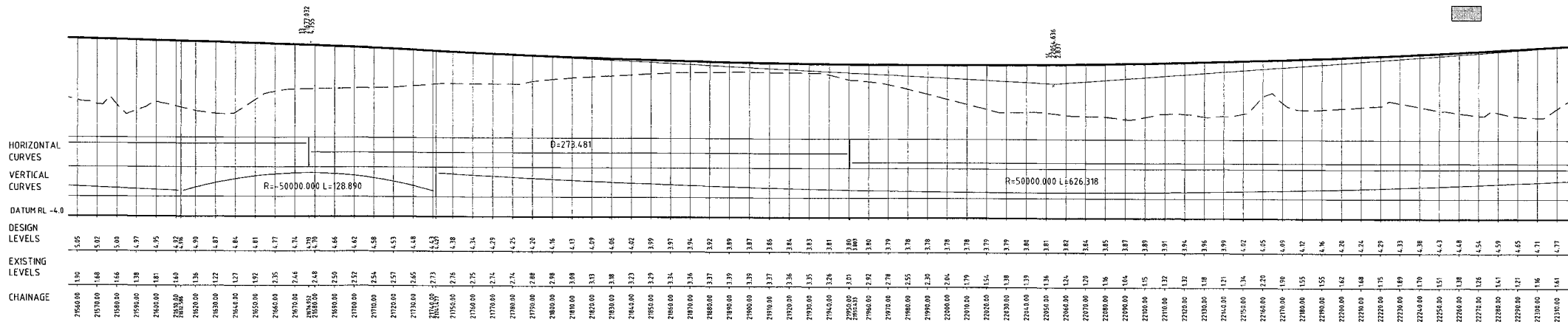
BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT			
Reference Points			
CTL CHGE	CH 5160 to CH 25250		
Preceding RPC	Dist. to start of job (km)	From end to end of job	Following RPC
Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd

REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO			
Examined	Certified	Approved	
ASME	RPEQ 3297		

**Queensland Government**  
 Department of Main Roads  
**JOB No.** No.75 of 53 drgs  
**Drawing No.** LS022  
 Contract No. A  
 CAO REF:

REF: 5792\_MRR\_Detail\_A1\_X-CH-CONTINUENCE DESIGN\_MCAO\_NORTH.DWG 1/2004 NAME: wendy

NORTHERN AIRPORT  
ACCESS BRIDGE



09-08-2004

**Connell Wagner**

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**Queensland Government**  
Department of Main Roads

JOB No. No.76 of 53 drgs

Drawing No. **LS023**

Contract No. A

CAD REF: //

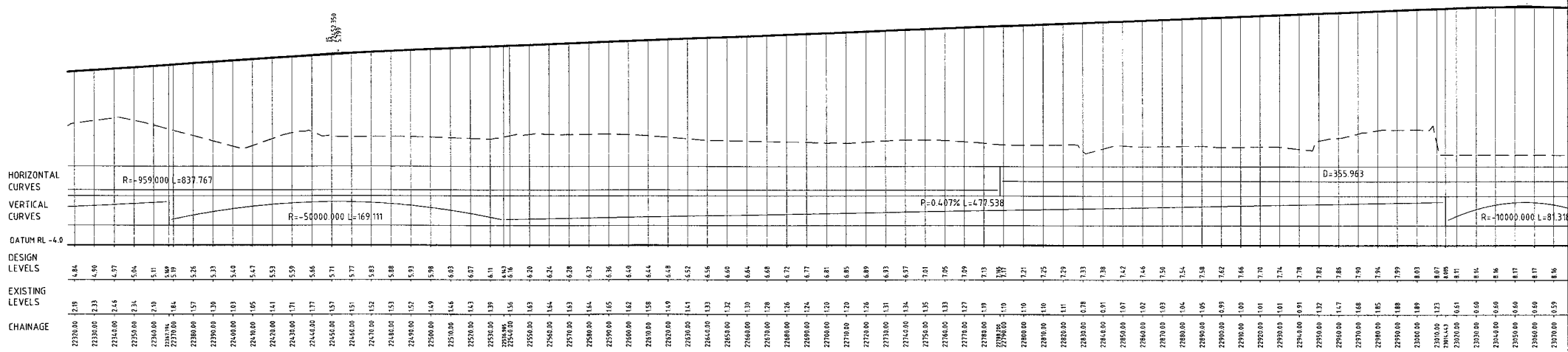
Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books
				Auxiliary drawing nos <td>Scales</td> <td>Through chainage from</td>	Scales	Through chainage from
				(Office use only)	1:100 1:1000	
A	Original issue					

BRISBANE CITY COUNCIL				REFERENCE PROJECT			
GATEWAY UPGRADE PROJECT				LONGITUDINAL SECTIONS			
CTL CHGE				CONTROL LINE MCAO			
CH 5160 to CH 25250							
Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC	Survey DMR Ckd	Boys DMR Ckd	Drawn TB Ckd	Design ASM Ckd

Examined	Certified	Approved
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
RPEQ 3297		

KEDRON BROOK BRIDGE

1:500



**PRELIMINARY**  
09-08-2004

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433 Boundary St. (Level Bay 1900) Spring Hill Facsimile: +61 7 3246 1001  
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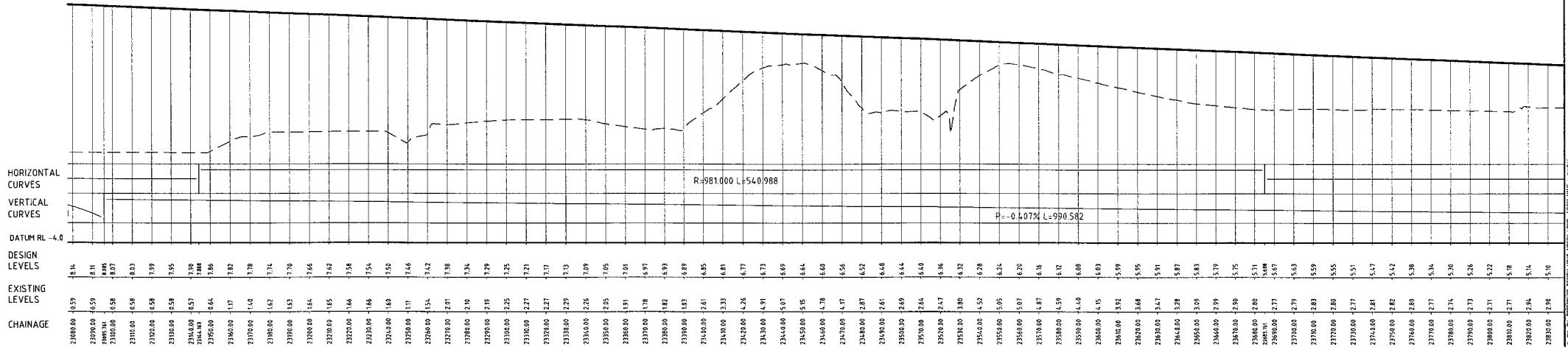
Revisions	Certified	Date	Microfilmed	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books	BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT				REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO				Queensland Government Department of Main Roads			
				Auxiliary drawing nos	Scales 1:100  1 0 1 2 3 4 5 m 1:1000  10 0 10 20 30 40 50 m	Through chainage from	CTL CHGE CH 5160 to CH 25250				Job No. No.77 of 53 drags Drawing No. LS024				Contract No. A			
A	Original issue			(Office use only)			Preceding RPC	Dist. to start of job (km)	Reference Points From start to end of job	From end to following RPC	Following RPC	Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd	Examined Ckd	Certified <i>[Signature]</i> RPEQ 3297	Approved

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KEDRON BROOK BRIDGE

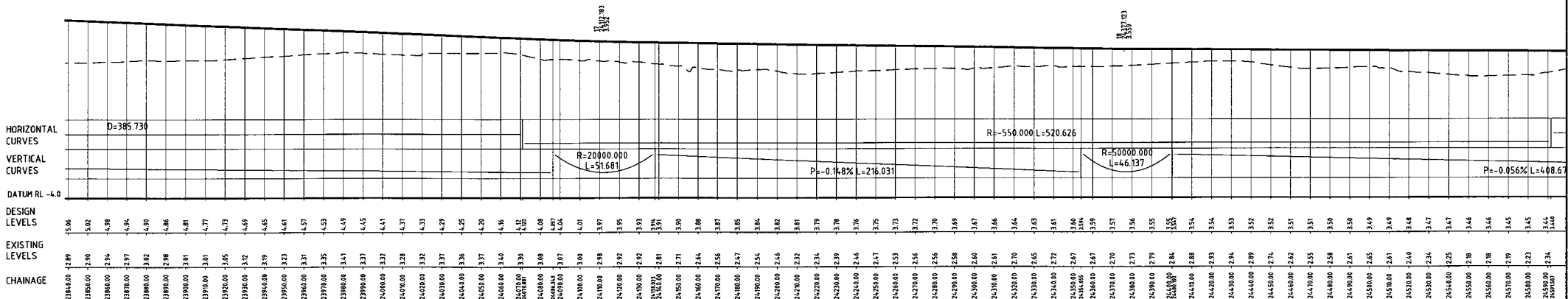
NORTHERN BIFURCATION BRIDGE



**PRELIMINARY**  
09-08-2004

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Queensland QLD Australia Email: cwi@connellwagner.com

Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise Culvert sizes in millimetres.	Survey books	BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT				REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO				<p><b>Queensland Government</b> Department of Main Roads</p>
				Auxiliary drawing nos	Scales	Through chainage from	CTL CHGE CH 5160 to CH 25250								
A	Original issue			(Office use only)	1:100 1:1000		Preceding RPC Dist. to start of job (km) From start to end of job From end to following RPC Following RPC Survey DMR Ckd Bdys DMR Ckd Drawn TB Ckd Design ASM Ckd Examined <i>[Signature]</i> Certified <i>[Signature]</i> Approved IRPEQ 3297								



**PRELIMINARY**  
09-08-2004

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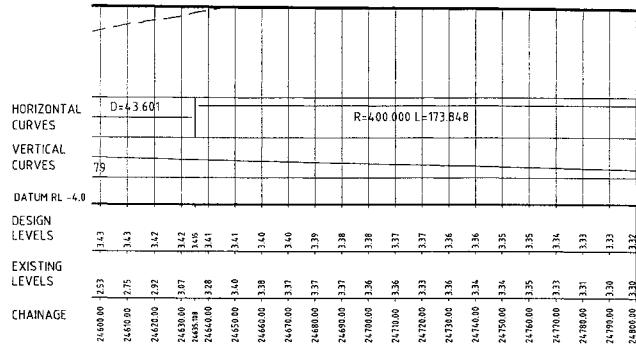
**Queensland Government**  
Department of Main Roads  
JOB No. No.79 of 53 drgs  
Drawing No. LS026  
Contract No. A  
CAD REF:

Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise. Culvert sizes in millimetres.	Survey books
A	Original issue			(Office use only)	Scales 1:100 1:1000	Through chainage from

BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT CH 5160 to CH 25250			
Reference Points			
Preceding RPC	Dist. to start of job (km)	From start to end of job	From end to following RPC

REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO							
Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd	Examined	Certified	Approved	
						RPEQ 3297	

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**PRELIMINARY**  
09-08-2004

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Revisions	Certified	Date	Microfiled	Associated job nos	Dimensions in metres except where shown otherwise Culvert sizes in millimetres.	Survey books
				Auxiliary drawing nos	Scales 1:100 1:1000	Through chainage from
A	Original issue			(Office use only)		

BRISBANE CITY COUNCIL GATEWAY UPGRADE PROJECT				REFERENCE PROJECT LONGITUDINAL SECTIONS CONTROL LINE MCAO			
CTL CHGE CH 5160 to CH 25250				Survey DMR Ckd	Bdys DMR Ckd	Drawn TB Ckd	Design ASM Ckd
Preceding RPC	Dist. to start of job (km)	Reference Points From start to end of job	From end to following RPC	Following RPC	Examined <i>RPEQ</i>	Certified <i>3297</i>	Approved

**Queensland Government**  
Department of Main Roads  
JOB No. No.80 of 53 drgs  
Drawing No. LS027  
Contract No. A  
CAD REF: //

REF: 3372.MRR.DETAIL.A1:K:\CWA-REFERENCE\ESSON\WAG\_DRAWING\0601\0601.DWG (06/01) 09-08-2004