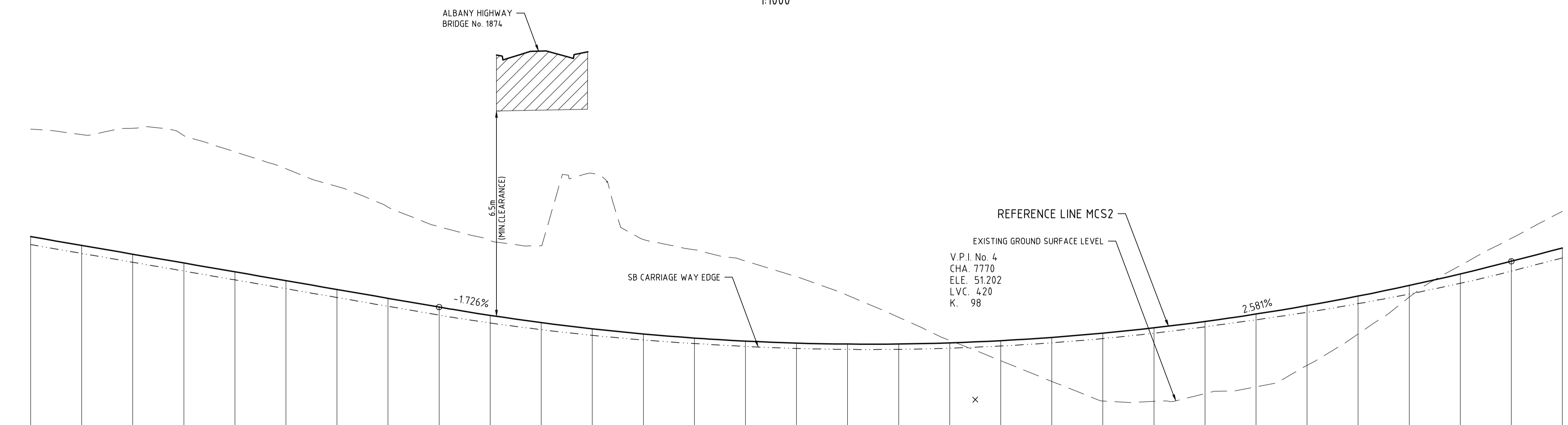


PLAN
1:1000



DESIGN TO GROUND LEVEL DIFFERENCE	-4.21	-4.34	-4.93	-4.99	-4.70	-4.39	-4.04	-3.57	-3.15	-2.93	-3.01	-6.09	-3.70	-3.46	-3.13	-2.60	-1.91	-1.04	-0.10	-0.78	1.72	2.66	2.88	2.83	2.85	2.34	1.48	0.46	-0.33	-0.90	-1.44
DESIGN LEVEL	57.589	57.244	56.898	56.553	56.208	55.863	55.517	55.172	54.827	54.502	54.219	53.976	53.774	53.614	53.494	53.415	53.378	53.381	53.426	53.511	53.638	53.805	54.014	54.264	54.554	54.886	55.259	55.672	56.127	56.623	57.139
GROUND LEVEL	61.80	61.59	61.83	61.55	60.91	60.25	59.55	58.74	57.98	57.43	57.23	60.06	57.47	57.07	56.63	56.02	55.29	54.43	53.52	52.73	51.91	51.15	51.13	51.43	51.70	52.55	53.78	55.22	56.46	57.52	58.58
CHAINAGE ON MCS2	7400	7420	7440	7460	7480	7500	7520	7540	7560	7580	7600	7620	7640	7660	7680	7700	7720	7740	7760	7780	7800	7820	7840	7860	7880	7900	7920	7940	7960	7980	8000
HORIZONTAL GEOMETRY	R=720.00 L=733.54															D=405.66					R=600.00 L=557.75										
VERTICAL GEOMETRY	P=-1.73% L=275.00															K=97.50 L=420.00					P=2.58% L=98.75										
CROSSFALL	E=4.5%															E=3.0%					E=5.5%										

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
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METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

GHD Level 10, 999 Hay Street Perth WA 6000
PO Box Y3106 Perth WA 6832 Australia
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E permail@ghd.com.au www.ghd.com.au

DRAWING NUMBER/DOCUMENT ID:	G:\61\37157\CADD\Drawings
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VERIFIED	
DIRECTOR	

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REGIONAL SERVICES DIRECTORATE
GREAT SOUTHERN REGION
2-6 Kelly Street Telephone (08) 9892 0555 ALBANY 6330 Fax (08) 9892 0577

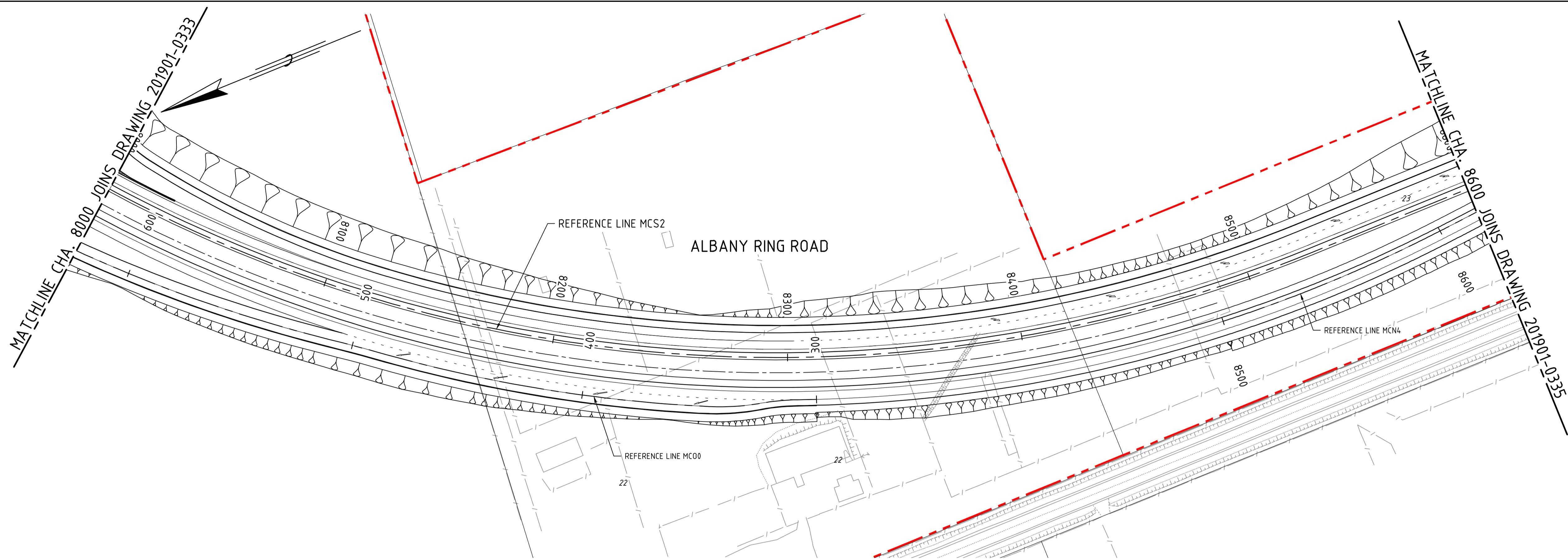
MRWA FILE NUMBER
APPROVED (MRWA)

ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCS2
CHA. 7400 TO CHA. 8000

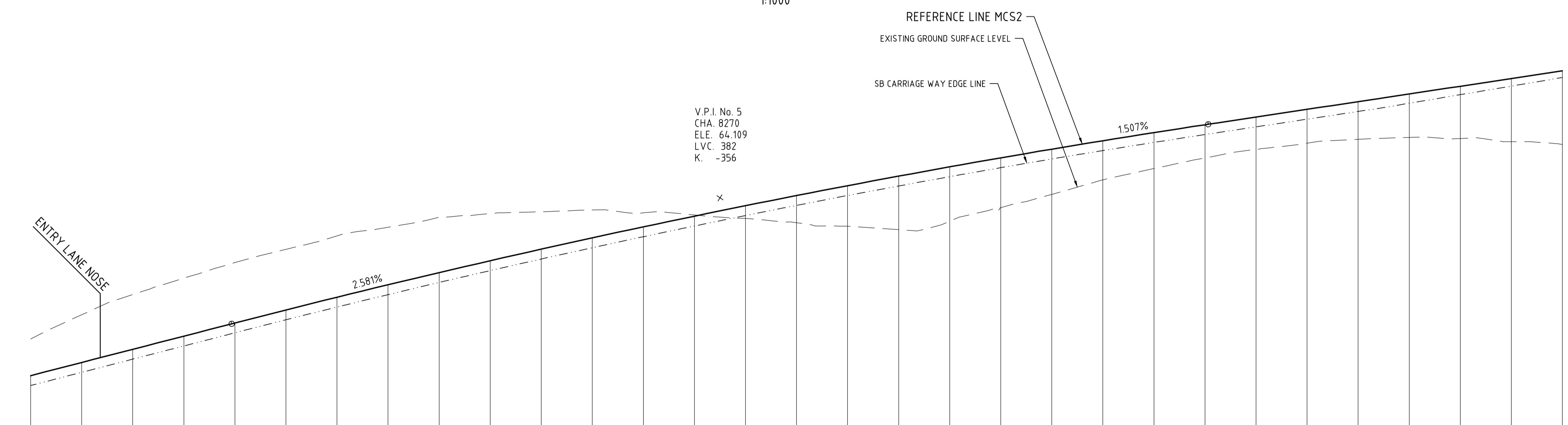
LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0333-B

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALES
A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

CHAINAGE ON MCS2	DESIGN TO GROUND LEVEL DIFFERENCE	DESIGN LEVEL	GROUND LEVEL
8000	-1.44	57.139	58.58
8020	-1.86	57.656	59.52
8040	-2.15	58.172	60.32
8060	-2.27	58.688	60.96
8080	-2.37	59.204	61.57
8100	-2.37	59.714	62.09
8120	-2.40	60.213	62.61
8140	-2.25	60.700	62.95
8160	-2.16	61.177	63.34
8180	-1.85	61.642	63.49
8200	-1.47	62.096	63.56
8220	-1.10	62.538	63.63
8240	-0.55	62.969	63.52
8260	-0.05	63.389	63.44
8280	0.49	63.798	63.30
8300	1.06	64.196	63.14
8320	1.59	64.582	62.99
8340	2.09	64.957	62.86
8360	2.13	65.321	63.19
8380	1.95	65.674	63.72
8400	1.77	66.015	64.24
8420	1.53	66.345	64.81
8440	1.41	66.664	65.25
8460	1.30	66.972	65.67
8480	1.27	67.273	66.00
8500	1.32	67.575	66.25
8520	1.47	67.876	66.40
8540	1.70	68.177	66.47
8560	2.05	68.479	66.43
8580	2.47	68.780	66.31
8600	2.88	69.081	66.20

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
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B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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LEGEND

- PROJECT SITE BOUNDARY
- BASE OF DRAIN
- CADASTRAL BOUNDARY
- RETAINING WALL
- NOISE WALL (TBA)
- CONCRETE BARRIER
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METADATA

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 DATE OF CAPTURE: VARIES
 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
 MAIN ROADS PROJECT ZONE: ALB 94
 HEIGHT DATUM: AHD

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 PO Box Y3106 Perth WA 6832 Australia
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 E permail@ghd.com.au www.ghd.com.au

DRAWING NUMBER/DOCUMENT ID: G:\61\37157\CADD\Drawings

DESIGNED / DRAWN: V. SINAGRA / E. HARRIS

VERIFIED

DIRECTOR

mainroads WESTERN AUSTRALIA

REGIONAL SERVICES DIRECTORATE
 GREAT SOUTHERN REGION

2-6 Kelly Street ALBANY 6330
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MRWA FILE NUMBER

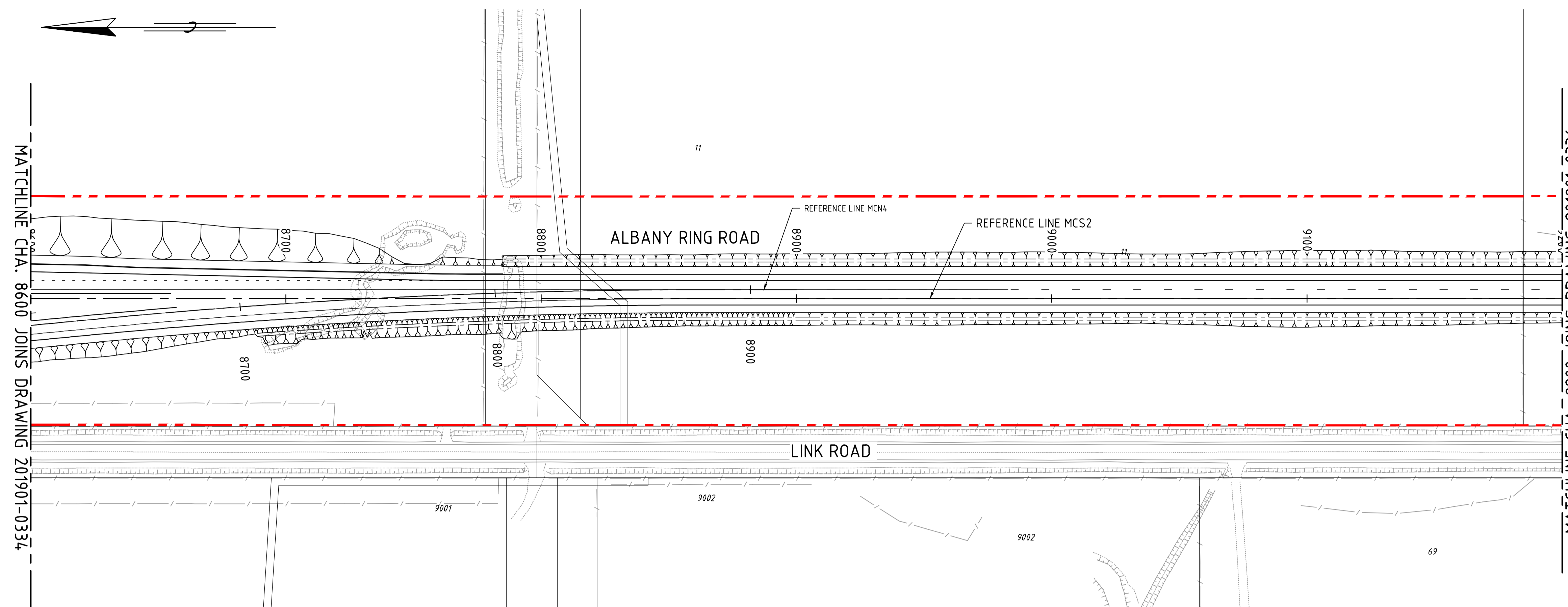
APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
 PLAN AND PROFILE - MCS2
 CHA. 8000 TO CHA. 8600

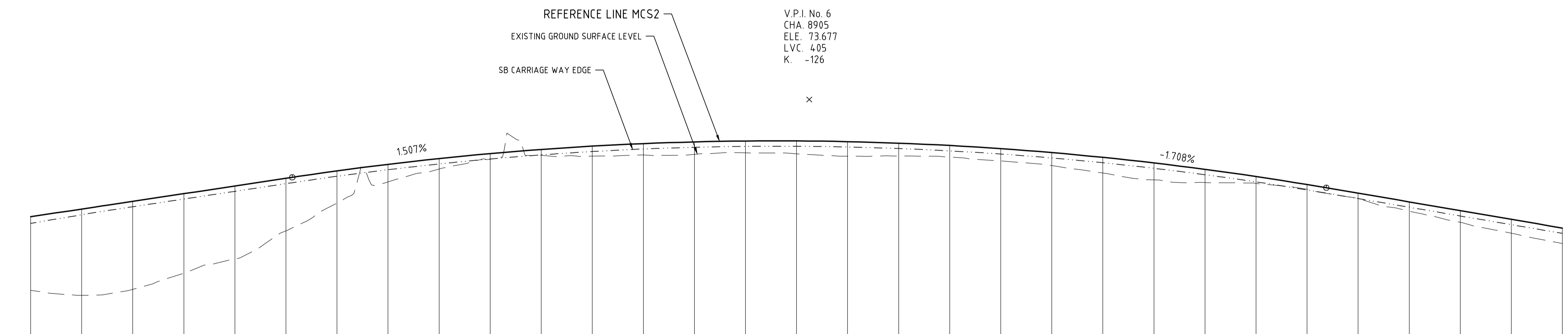
LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0334-B

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100
 HORIZ. 1:1000
 SCALES
 A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

CHAINAGE ON MCS2	DESIGN TO GROUND LEVEL DIFFERENCE	DESIGN LEVEL	GROUND LEVEL
8600	2.88	69.081	66.20
8620	-3.38	69.383	66.00
8640	3.45	69.684	66.23
8660	-3.13	69.985	66.86
8680	-2.86	70.287	67.42
8700	-2.06	70.588	68.53
8720	-1.26	70.877	69.61
8740	-0.69	71.155	70.45
8760	-0.41	71.361	70.95
8780	-0.22	71.555	71.34
8800	-0.23	71.718	71.49
8820	-0.39	71.848	71.46
8840	-0.45	71.947	71.50
8860	-0.49	72.014	71.53
8880	-0.46	72.050	71.59
8900	-0.50	72.054	71.55
8920	-0.57	72.025	71.46
8940	-0.50	71.966	71.46
8960	-0.46	71.874	71.42
8980	-0.48	71.751	71.27
9000	-0.50	71.596	71.09
9020	-0.61	71.409	70.80
9040	-0.66	71.190	70.53
9060	-0.52	70.940	70.42
9080	-0.27	70.658	70.39
9100	-0.19	70.344	70.16
9120	-0.20	70.005	69.80
9140	-0.36	69.663	69.30
9160	-0.46	69.321	68.86
9180	-0.55	68.980	68.43
9200	-0.61	68.638	68.03

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

- NOTES**
- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
 - DRAWING TO BE PRINTED IN COLOUR.

- LEGEND**
- PROJECT SITE BOUNDARY
 - BASE OF DRAIN
 - CADASTRAL BOUNDARY
 - RETAINING WALL
 - NOISE WALL (TBA)
 - CONCRETE BARRIER
 - RAILWAY CENTRE LINE (EXISTING)
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 - SHARED PATH
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METADATA

GROUND SURVEY STANDARD: 67-08-43
 DATE OF CAPTURE: VARIES
 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
 MAIN ROADS PROJECT ZONE: ALB 94
 HEIGHT DATUM: AHD

GHD Level 10, 999 Hay Street Perth WA 6000
 PO Box Y3106 Perth WA 6832 Australia
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 E permail@ghd.com.au www.ghd.com.au

DRAWING NUMBER / DOCUMENT ID	G:\61\371571\CADD\Drawings
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VERIFIED	
DIRECTOR	

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 GREAT SOUTHERN REGION
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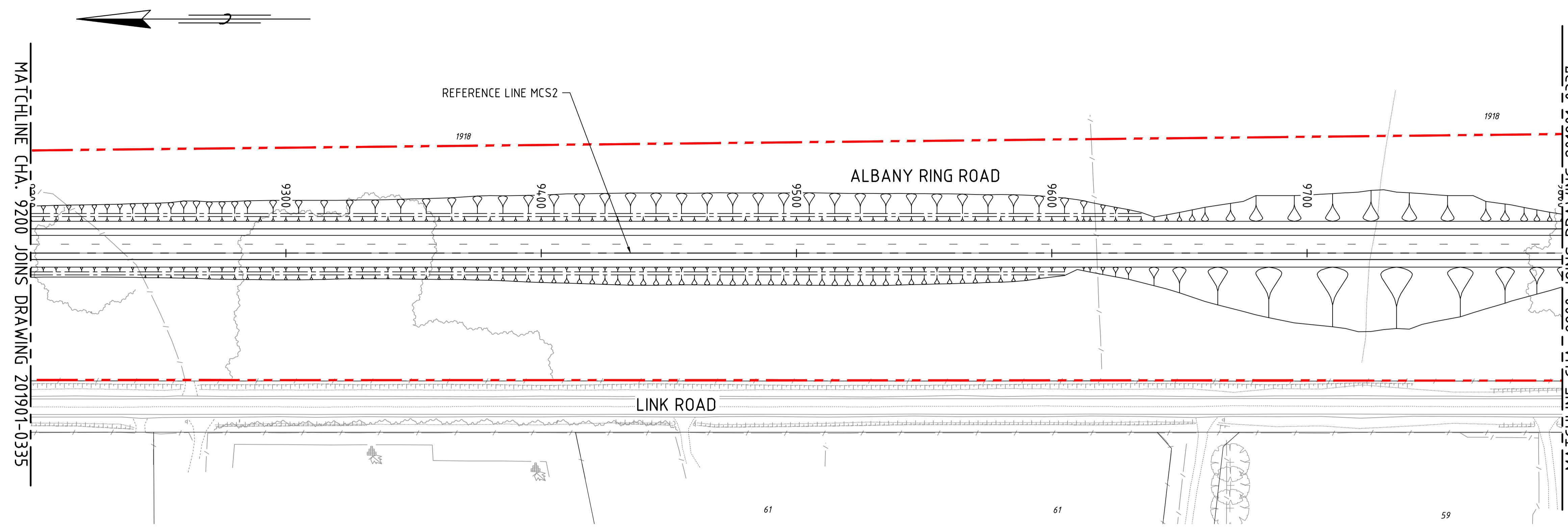
MRWA FILE NUMBER
 APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
 PLAN AND PROFILE - MCS2
 CHA. 8600 TO CHA. 9200

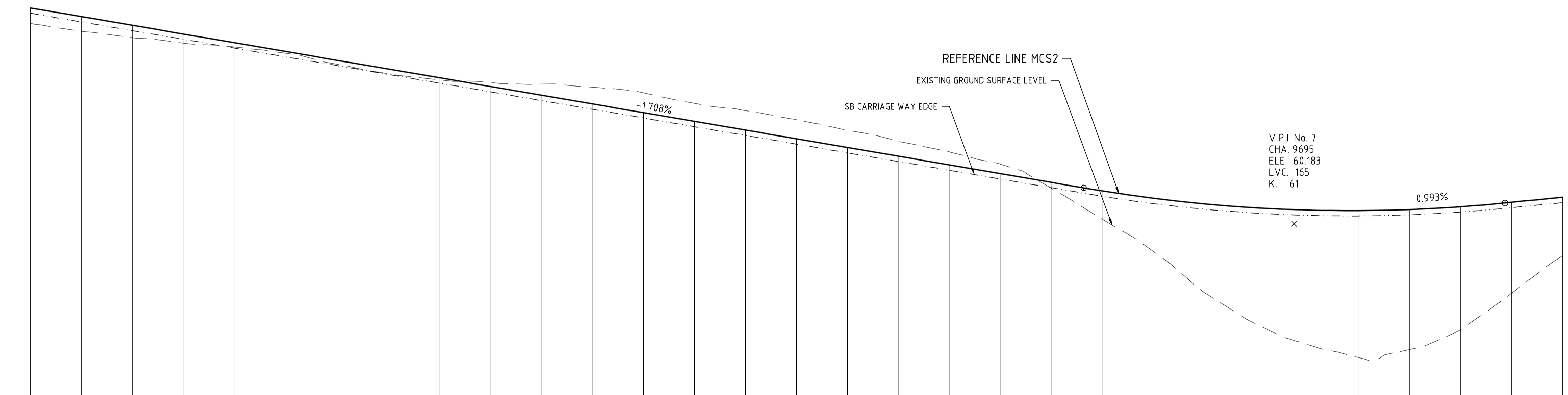
LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0335-B

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALES
A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

DESIGN TO GROUND LEVEL DIFFERENCE	DESIGN LEVEL	GROUND LEVEL	CHAINAGE ON MCS2
0.61	68.638	68.03	9200
-0.58	68.296	67.72	9220
-0.48	67.955	67.47	9240
-0.36	67.613	67.25	9260
-0.16	67.272	67.11	9280
-0.07	66.930	66.86	9300
-0.15	66.588	66.43	9320
-0.19	66.247	66.06	9340
-0.08	65.905	65.83	9360
-0.15	65.564	65.72	9380
-0.43	65.222	65.65	9400
-0.65	64.880	65.53	9420
-0.77	64.539	65.31	9440
-0.70	64.197	64.90	9460
-0.76	63.855	64.61	9480
-0.75	63.514	64.26	9500
-0.68	63.172	63.85	9520
-0.58	62.831	63.41	9540
-0.51	62.489	63.00	9560
-0.37	62.147	62.51	9580
-0.24	61.806	61.56	9600
1.12	61.469	60.35	9620
2.10	61.184	59.09	9640
3.49	60.966	57.48	9660
4.55	60.812	56.26	9680
5.26	60.724	55.46	9700
5.75	60.702	54.95	9720
5.48	60.745	55.26	9740
4.83	60.854	56.03	9760
3.56	61.027	57.47	9780
2.29	61.226	58.94	9800

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
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	HARD LANDSCAPING



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METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

GHD Level 10, 999 Hay Street Perth WA 6000
PO Box Y3106 Perth WA 6832 Australia
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DESIGNED / DRAWN:	V. SINAGRA / E. HARRIS
VERIFIED:	
DIRECTOR:	

mainroads WESTERN AUSTRALIA
REGIONAL SERVICES DIRECTORATE
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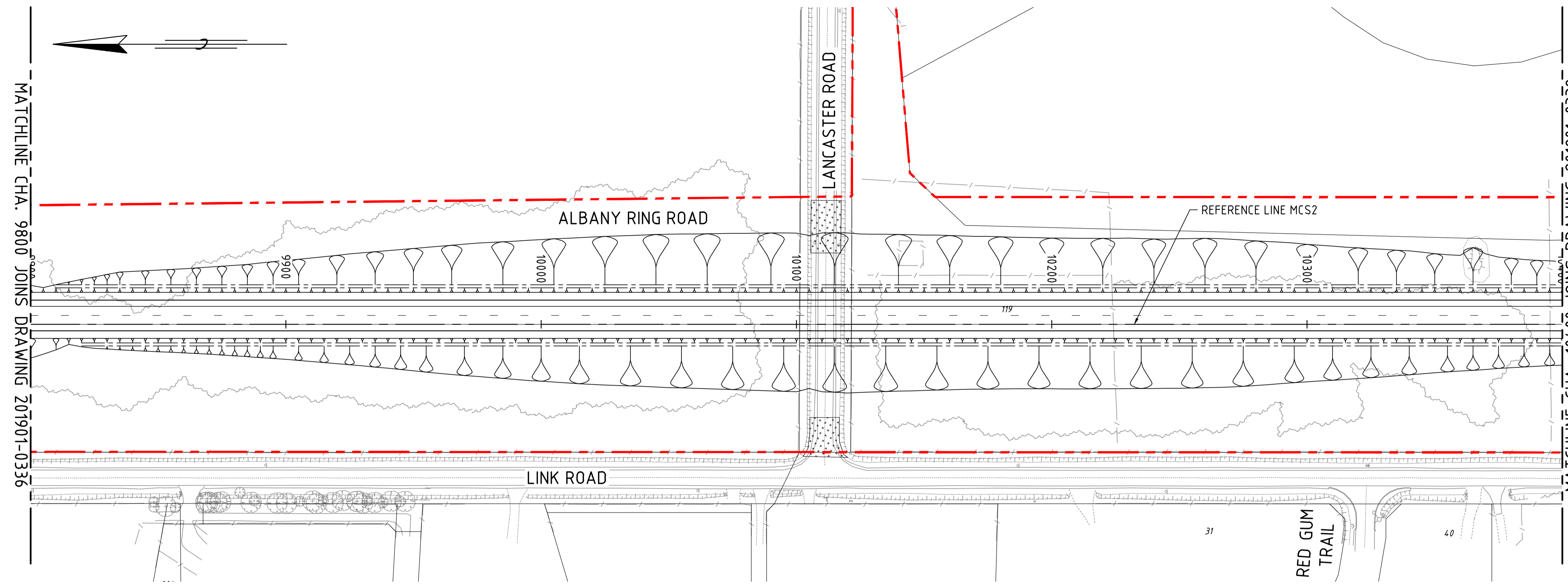
MRWA FILE NUMBER
APPROVED (MRWA)

ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCS2
CHA. 9200 TO CHA. 9800

LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0336-B

PRELIMINARY
DATE : 10 December 2019

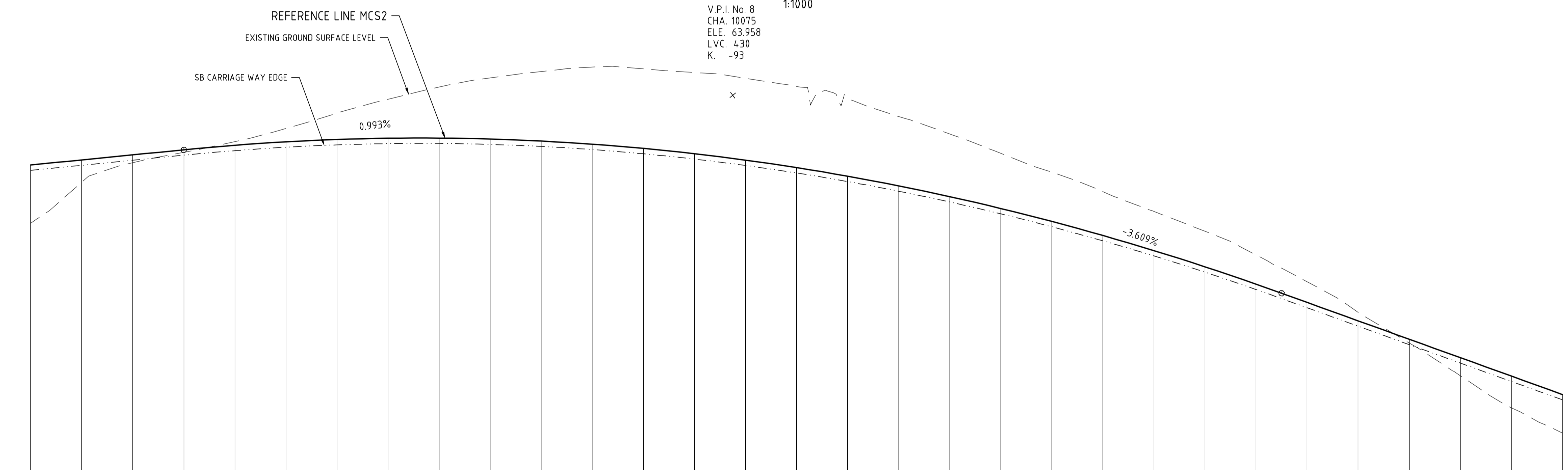
VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN

V.P.I. No. 8
CHA. 10075
ELE. 63.958
LVC. 430
K. -93

1:1000



PROFILE

H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

- NOTES**
- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
 - DRAWING TO BE PRINTED IN COLOUR.

LEGEND

	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
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METADATA

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DATE OF CAPTURE: VARIES
MAPPING SURVEY STANDARD: N/A
DATE OF CAPTURE: N/A
MAIN ROADS PROJECT ZONE: ALB 94
HEIGHT DATUM: AHD

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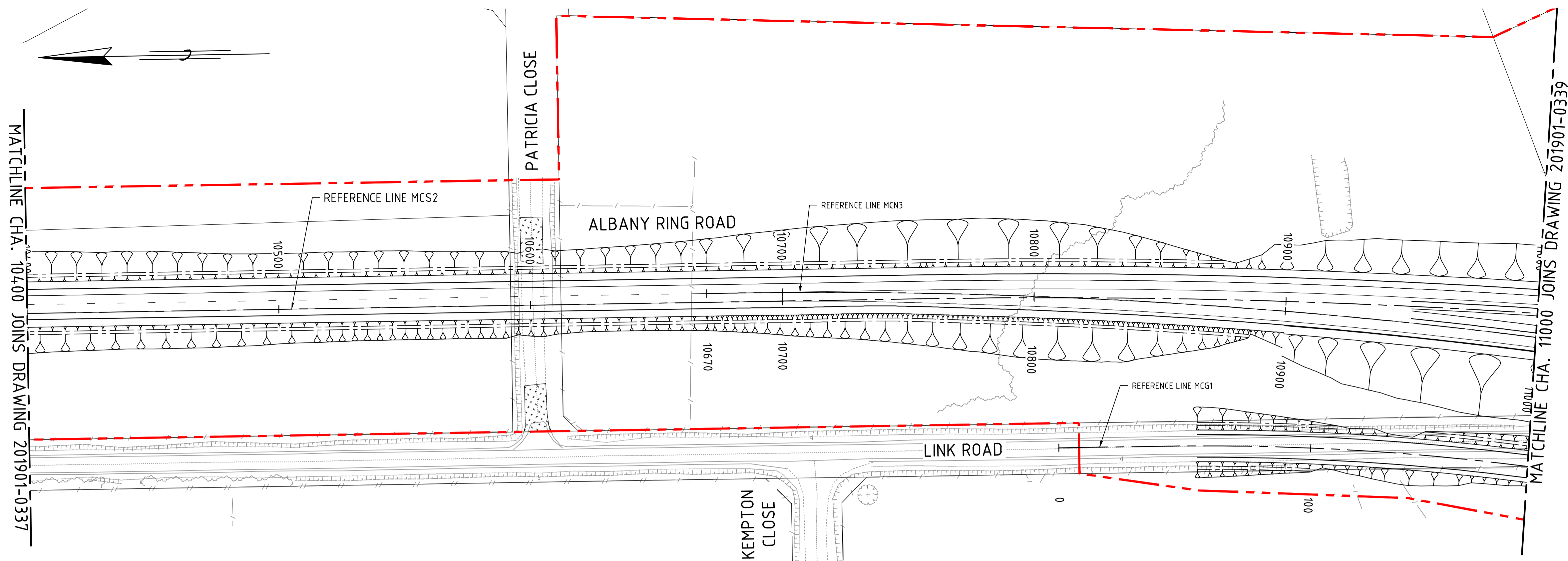
MRWA FILE NUMBER
APPROVED (MRWA)

ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCS2
CHA. 9800 TO CHA. 104.00

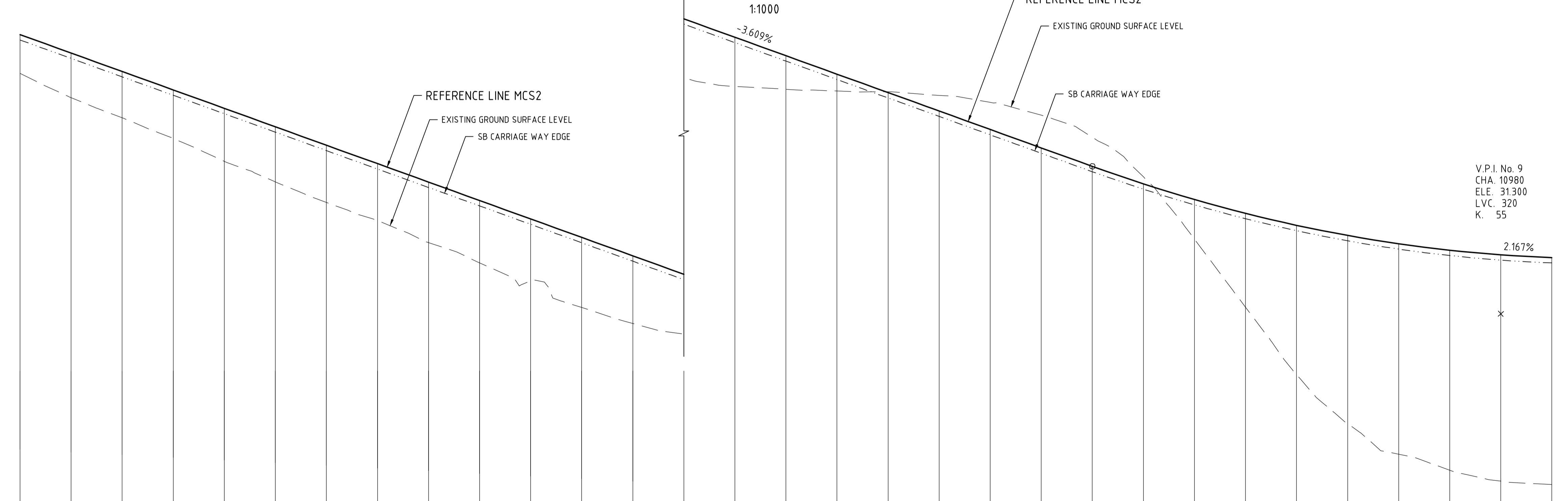
LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0337-B

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000



DESIGN TO GROUND LEVEL DIFFERENCE	1.51	1.74	1.81	1.90	2.07	2.16	2.24	2.23	2.37	2.44	2.42	2.74	2.65	2.34	1.92	1.31	0.66	-0.03	-0.61	-1.06	-1.28	-1.14	-0.27	1.55	3.67	5.85	7.36	8.24	8.61	8.86	8.89			
DESIGN LEVEL	52.230	51.508	50.787	50.065	49.343	48.621	47.900	47.178	46.456	45.734	45.013	44.291	43.569	42.848	42.126	41.404	40.682	39.961	39.239	38.517	37.796	37.074	36.353	35.631	34.910	34.188	33.467	32.745	32.024	31.302	30.581			
GROUND LEVEL	50.72	49.76	48.97	48.17	47.27	46.46	45.66	44.95	44.09	43.29	42.59	41.55	40.92	40.50	40.20	40.09	40.02	39.99	39.85	39.58	39.08	38.21	36.66	34.22	31.56	28.92	27.00	25.80	25.18	24.75	24.61			
CHAINAGE ON MCS2	104.00	104.20	104.40	104.60	104.80	105.00	105.20	105.40	105.60	105.80	106.00	106.20	106.40	106.60	106.80	107.00	107.20	107.40	107.60	107.80	108.00	108.20	108.40	108.60	108.80	109.00	109.20	109.40	109.60	109.80	110.00			
HORIZONTAL GEOMETRY	D=2229.49																R=3000.00 L=426.35																	
VERTICAL GEOMETRY	P=3.61% L=530.00																K=55.41 L=320.00																	
CROSSFALL	E=3.0%																																	

PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES
 1. ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
 2. DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
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METADATA

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 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
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 HEIGHT DATUM: AHD

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DESIGNED / DRAWN	V. SINAGRA / E. HARRIS
VERIFIED	
DIRECTOR	

mainroads WESTERN AUSTRALIA
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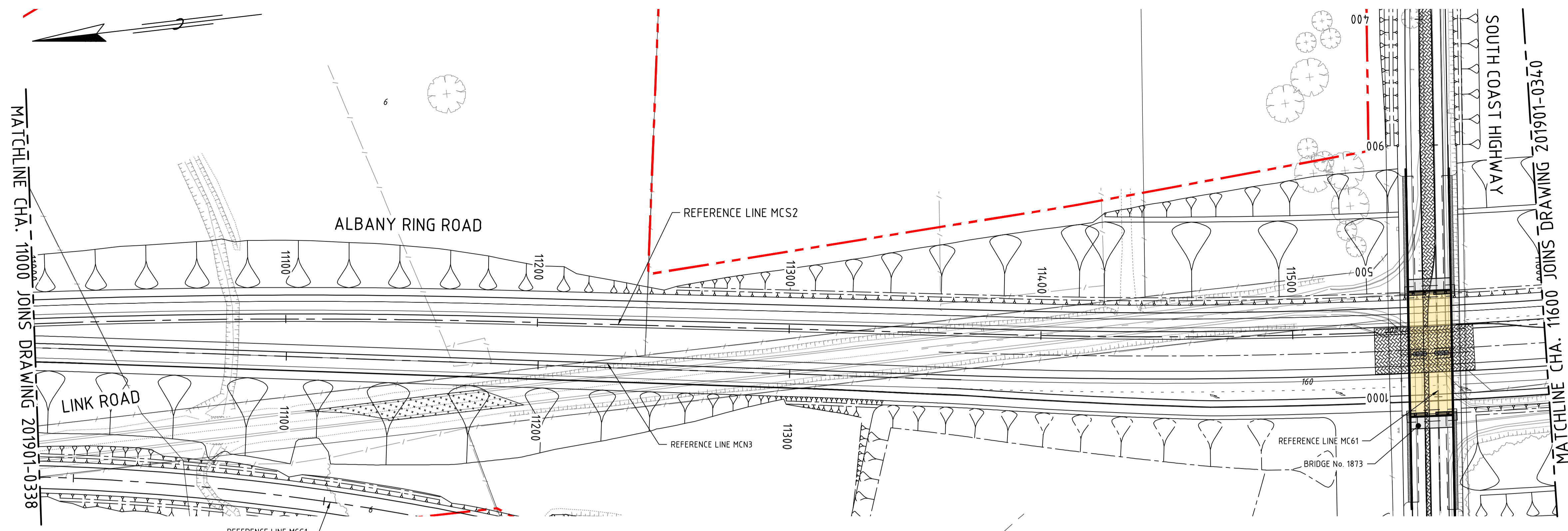
MRWA FILE NUMBER
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ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCS2
 CHA. 104.00 TO CHA. 110.00

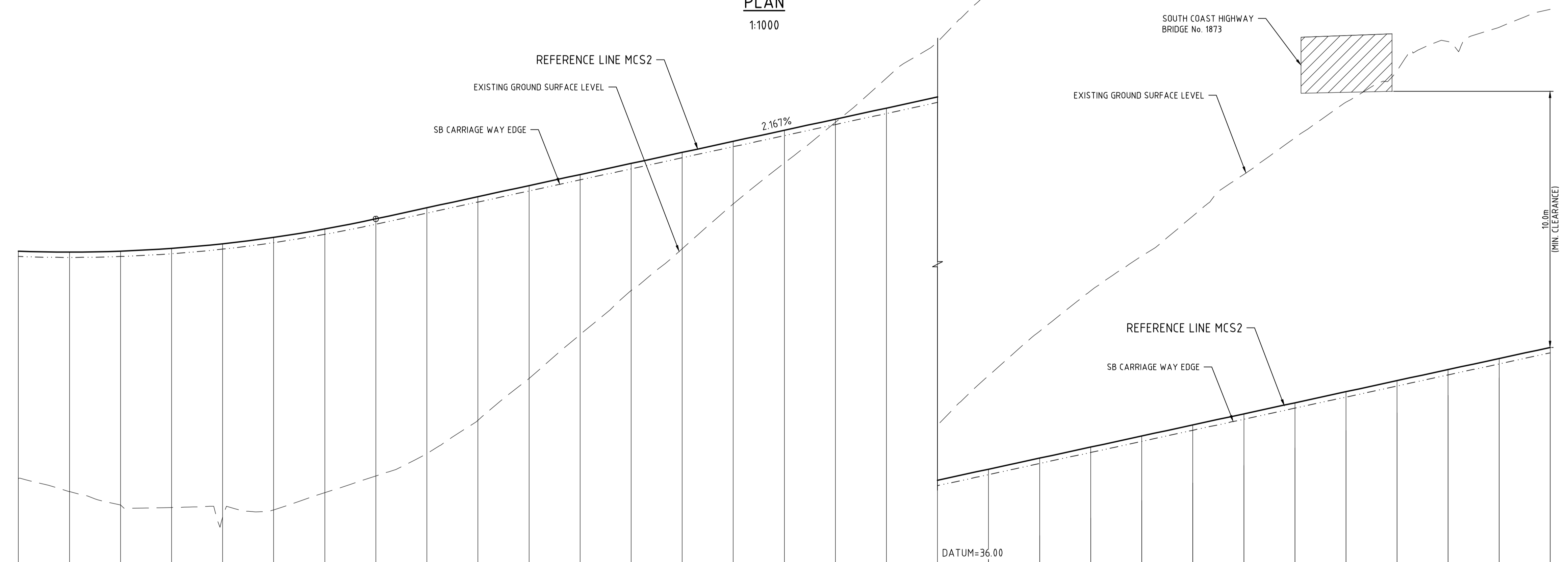
LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0338-B

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100
 HORIZ. 1:1000
 SCALES
 A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

	11000	11020	11040	11060	11080	11100	11120	11140	11160	11180	11200	11220	11240	11260	11280	11300	11320	11340	11360	11380	11400	11420	11440	11460	11480	11500	11520	11540	11560	11580	11600	
DESIGN TO GROUND LEVEL DIFFERENCE	8.89	9.38	9.93	10.14	10.71	10.67	10.32	10.06	9.62	8.75	7.55	6.27	4.97	3.77	2.45	1.28	0.13	-1.17	-2.16	-3.66	-4.97	-6.12	-7.05	-8.17	-9.37	-10.37	-11.33	-12.13	-12.84	-12.96	-13.23	
DESIGN LEVEL	33.502	33.466	33.502	33.611	33.792	34.044	34.369	34.767	35.200	35.633	36.067	36.500	36.933	37.367	37.800	38.233	38.667	39.100	39.533	39.967	40.400	40.833	41.267	41.700	42.133	42.567	43.000	43.433	43.867	44.300	44.733	
GROUND LEVEL	24.61	24.09	23.57	23.47	23.08	23.38	24.05	24.70	25.58	26.88	28.52	30.23	31.96	33.59	35.35	36.95	38.54	40.27	41.69	43.63	45.37	46.95	48.31	49.87	51.51	52.94	54.33	55.57	56.71	57.27	57.97	
CHAINAGE ON MCS2	11000	11020	11040	11060	11080	11100	11120	11140	11160	11180	11200	11220	11240	11260	11280	11300	11320	11340	11360	11380	11400	11420	11440	11460	11480	11500	11520	11540	11560	11580	11600	
HORIZONTAL GEOMETRY	R=3000.00 L=426.35										D=205.34										R=2250.00 L=485.63											
VERTICAL GEOMETRY	K=55.41 L=320.00										P=2.17% L=600.00																					
CROSSFALL	E=3.0%																															

AMENDMENTS

No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DRAWING TO BE PRINTED IN COLOUR.

LEGEND

	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
SERVICES AND CADASTRAL BOUNDARY LOCATIONS SHOWN ARE ONLY INDICATIVE AND MUST NOT BE USED FOR EXCAVATION. THE "ONE CALL 1100" SYSTEM SHALL BE USED TO OBTAIN ACCURATE SERVICE LOCATIONS.

METADATA

GROUND SURVEY STANDARD: 67-08-43
 DATE OF CAPTURE: VARIES
 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
 MAIN ROADS PROJECT ZONE: ALB 94
 HEIGHT DATUM: AHD

GHD Level 10, 999 Hay Street Perth WA 6000
 PO Box Y3106 Perth WA 6832 Australia
 T (08) 6222 8222 F (08) 6222 8555
 E permail@ghd.com.au www.ghd.com.au

DRAWING NUMBER / DOCUMENT ID	G:\61\371571\CADD\Drawings
DESIGNED / DRAWN	V. SINAGRA / E. HARRIS
VERIFIED	
DIRECTOR	

mainroads WESTERN AUSTRALIA
 REGIONAL SERVICES DIRECTORATE
 GREAT SOUTHERN REGION
 2-6 Kelly Street ALBANY 6330
 Telephone (08) 9892 0555 Fax (08) 9892 0577

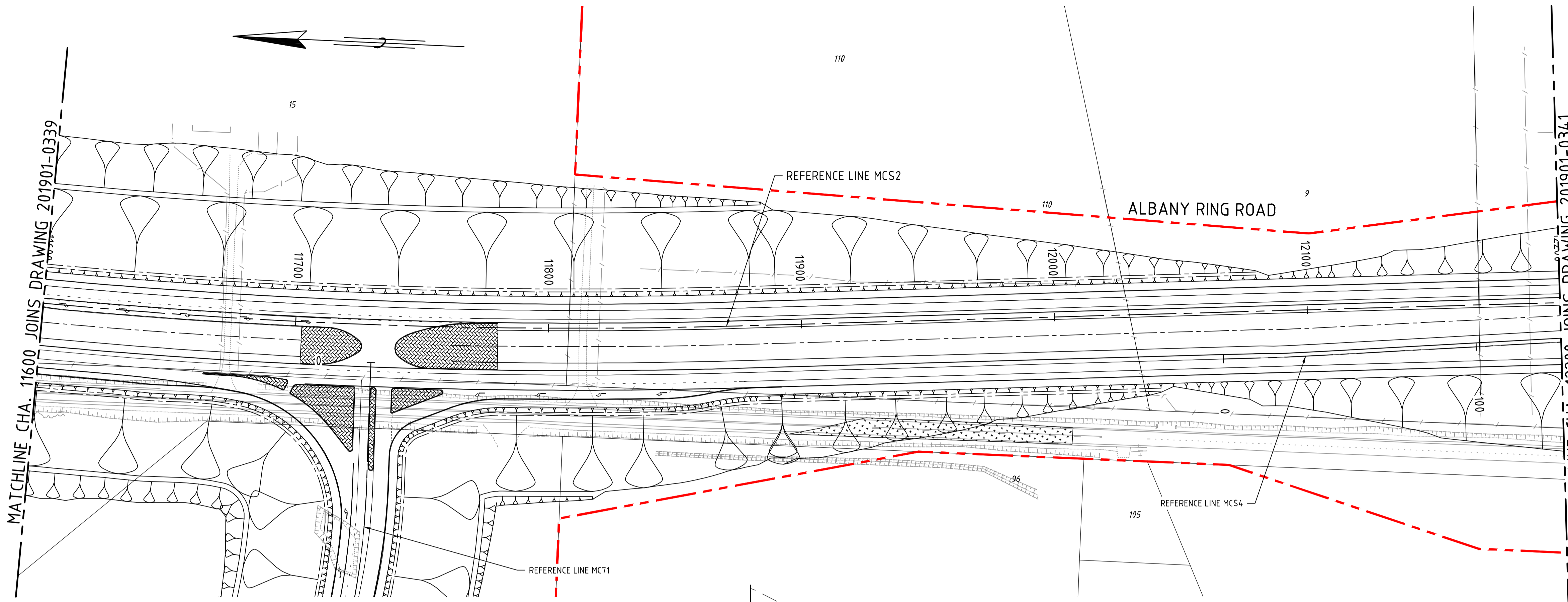
MRWA FILE NUMBER
 APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCS2
 CHA. 11000 TO CHA. 11600

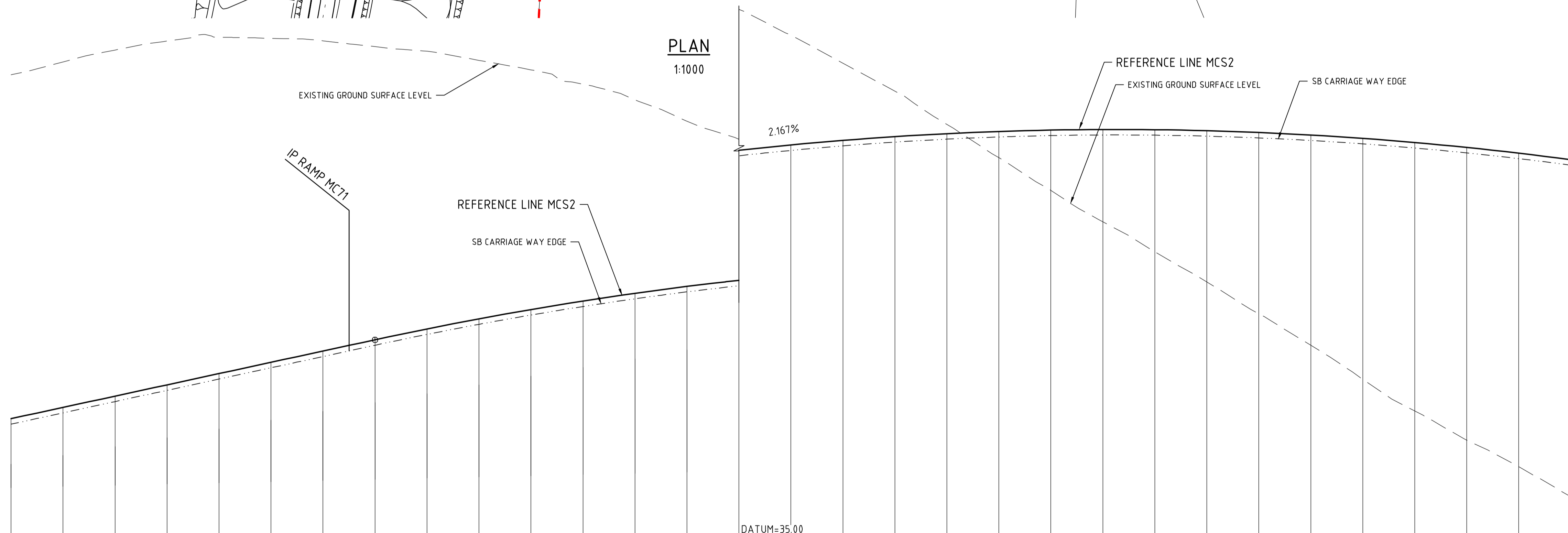
LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0339-B

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100 HORIZ. 1:1000 SCALES A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

	11600	11620	11640	11660	11680	11700	11720	11740	11760	11780	11800	11820	11840	11860	11880	11900	11920	11940	11960	11980	12000	12020	12040	12060	12080	12100	12120	12140	12160	12180	12200
DESIGN TO GROUND LEVEL DIFFERENCE	-13.23	-13.29	-13.31	-13.22	-12.94	-12.46	-11.93	-11.28	-10.68	-9.94	-9.22	-8.34	-7.45	-6.35	-5.42	-4.22	-2.97	-1.75	-0.36	1.00	2.32	3.55	4.70	5.82	6.97	8.09	9.27	10.33	11.26	12.06	12.97
DESIGN LEVEL	44.733	45.167	45.600	46.033	46.467	46.900	47.333	47.767	48.185	48.573	48.930	49.257	49.553	49.820	50.055	50.261	50.436	50.580	50.694	50.778	50.832	50.855	50.847	50.810	50.741	50.643	50.514	50.355	50.165	49.945	49.694
GROUND LEVEL	57.97	58.46	58.91	59.26	59.41	59.36	59.27	59.04	58.87	58.52	58.15	57.60	57.00	56.17	55.48	54.48	53.41	52.33	51.06	49.78	48.51	47.31	46.15	44.99	43.77	42.56	41.24	39.91	37.89	36.73	
CHAINAGE ON MCS2	11600	11620	11640	11660	11680	11700	11720	11740	11760	11780	11800	11820	11840	11860	11880	11900	11920	11940	11960	11980	12000	12020	12040	12060	12080	12100	12120	12140	12160	12180	12200
HORIZONTAL GEOMETRY	R=2250.00 L=485.63															D=580.30															
VERTICAL GEOMETRY	P=2.17% L=600.00															K=-131.61 L=1000.00															
CROSSFALL	E=3.0%															E=3.0%															

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
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METADATA

GROUND SURVEY STANDARD: 67-08-43
 DATE OF CAPTURE: VARIES
 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
 MAIN ROADS PROJECT ZONE: ALB 94
 HEIGHT DATUM: AHD

GHD Level 10, 999 Hay Street Perth WA 6000
 PO Box Y3106 Perth WA 6832 Australia
 T (08) 6222 8222 F (08) 6222 8555
 E permail@ghd.com.au www.ghd.com.au

DRAWING NUMBER/DOCUMENT ID: G:\61\371571\CADD\Drawings
 DESIGNED / DRAWN: V. SINAGRA / E. HARRIS
 VERIFIED:
 DIRECTOR:

mainroads WESTERN AUSTRALIA
 REGIONAL SERVICES DIRECTORATE
 GREAT SOUTHERN REGION
 2-6 Kelly Street Telephone (08) 9892 0555 ALBANY 6330 Fax (08) 9892 0577

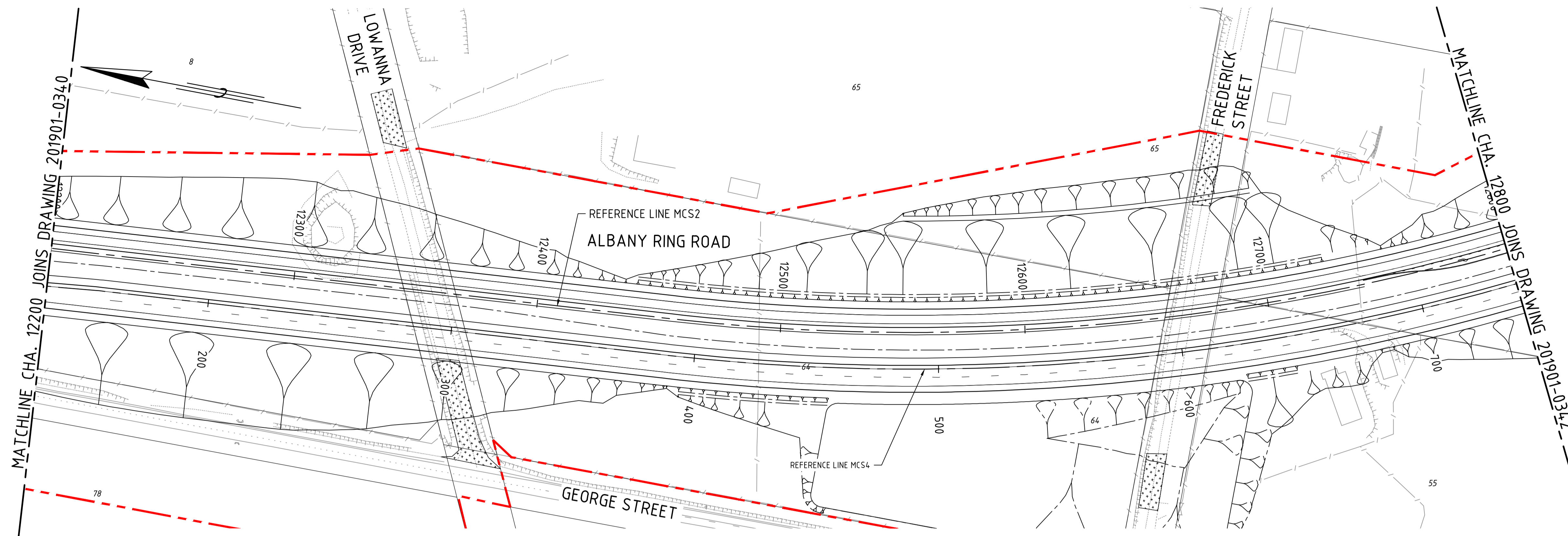
MRWA FILE NUMBER
 APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
 PLAN AND PROFILE - MCS2
 CHA. 11600 TO CHA. 12200

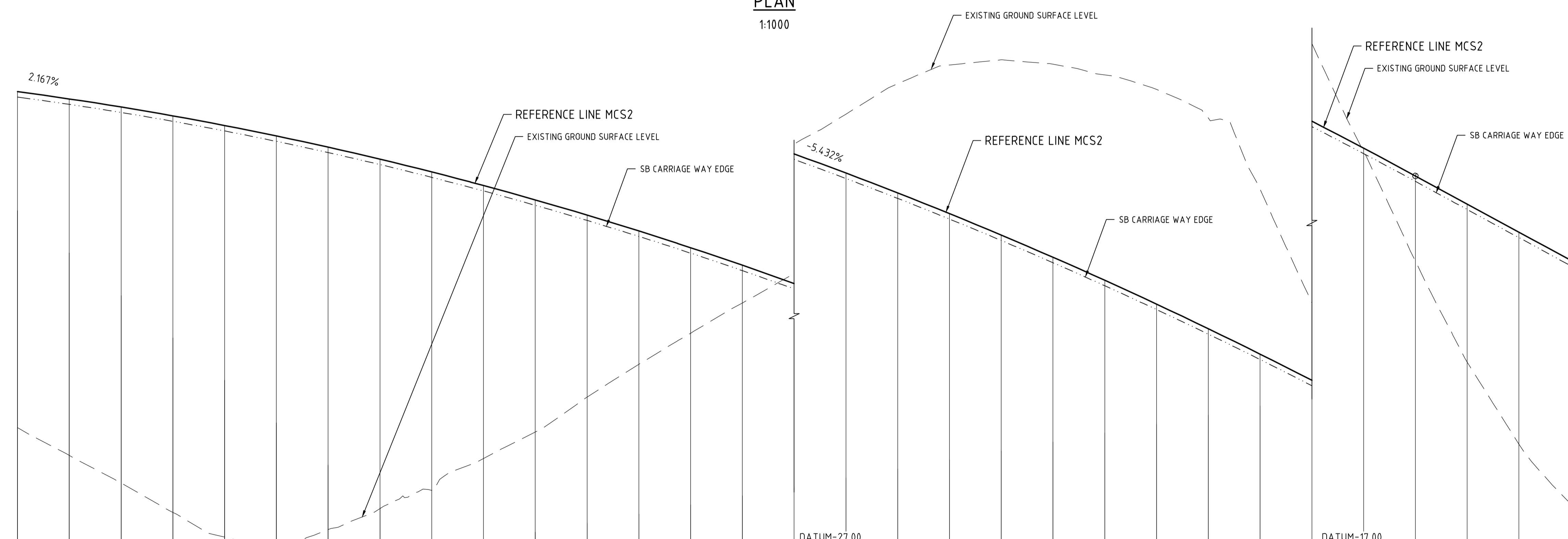
LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0340-B

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100
 HORIZ. 1:1000
 SCALES
 A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

DESIGN TO GROUND LEVEL DIFFERENCE	12.97	13.76	14.51	15.31	15.89	15.72	14.76	13.49	12.29	10.54	8.96	7.03	5.15	3.30	1.46	-0.39	-2.27	-4.21	-5.74	-6.76	-7.45	-7.93	-8.29	-8.14	-6.38	-2.99	0.13	3.29	6.10	8.18	9.41	
DESIGN LEVEL	49.694	49.413	49.102	48.760	48.388	47.986	47.553	47.089	46.596	46.072	45.517	44.932	44.317	43.671	42.995	42.289	41.552	40.785	39.987	39.159	38.301	37.412	36.493	35.543	34.563	33.553	32.512	31.441	30.355	29.268	28.182	
GROUND LEVEL	36.73	35.65	34.59	33.45	32.50	32.27	32.79	33.60	34.31	35.53	36.56	37.90	39.17	40.37	41.54	42.68	43.83	45.00	45.72	45.92	45.75	45.34	44.78	43.68	42.94	36.54	32.39	28.15	24.26	21.09	18.78	
CHAINAGE ON MCS2	12200	12220	12240	12260	12280	12300	12320	12340	12360	12380	12400	12420	12440	12460	12480	12500	12520	12540	12560	12580	12600	12620	12640	12660	12680	12700	12720	12740	12760	12780	12800	
HORIZONTAL GEOMETRY	O=580.30														R=-875.00 L=988.09																	
VERTICAL GEOMETRY															K=-131611 L=1000.00													P=-5.43% L=180.00				
CROSSFALL	E=3.0%																E=3.0%															

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
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METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

GHD Level 10, 999 Hay Street Perth WA 6000
PO Box Y3106 Perth WA 6832 Australia
T (08) 6222 8222 F (08) 6222 8555
E permail@ghd.com.au www.ghd.com.au

DRAWING NUMBER/DOCUMENT ID	G:\61\37157\CADD\Drawings
DESIGNED / DRAWN	V. SINAGRA / E. HARRIS
VERIFIED	
DIRECTOR	

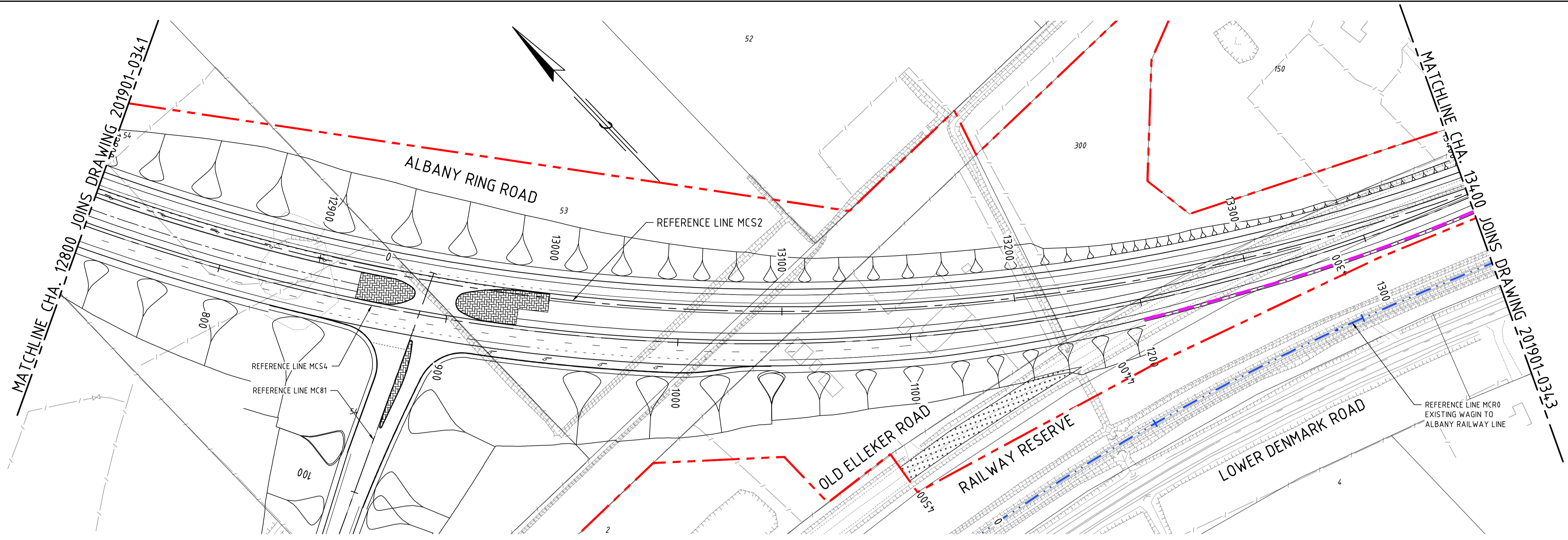
mainroads WESTERN AUSTRALIA
REGIONAL SERVICES DIRECTORATE
GREAT SOUTHERN REGION
2-6 Kelly Street Telephone (08) 9892 0555 ALBANY 6330 Fax (08) 9892 0577

MRWA FILE NUMBER
APPROVED (MRWA)
ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCS2
CHA. 12200 TO CHA. 12800

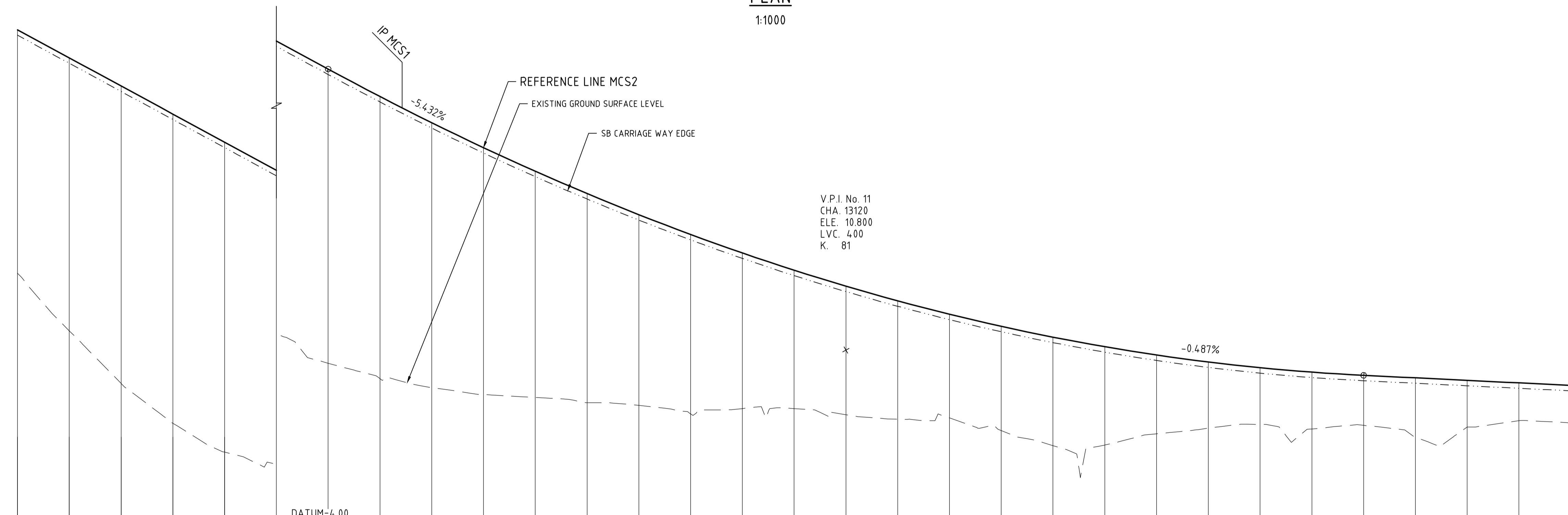
LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0341-B

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

	12800	12820	12840	12860	12880	12900	12920	12940	12960	12980	13000	13020	13040	13060	13080	13100	13120	13140	13160	13180	13200	13220	13240	13260	13280	13300	13320	13340	13360	13380	13400		
DESIGN TO GROUND LEVEL DIFFERENCE	9.41	10.55	11.49	11.95	11.98	11.36	11.37	10.90	10.24	9.54	8.74	8.08	7.37	6.94	6.01	5.35	4.97	4.57	4.01	4.03	4.19	3.80	3.05	2.56	2.19	2.19	1.94	2.29	1.81	1.46	1.46		
DESIGN LEVEL	28.182	27.095	26.009	24.923	23.836	22.750	21.664	20.602	19.590	18.627	17.714	16.850	16.036	15.271	14.555	13.889	13.272	12.705	12.188	11.719	11.300	10.931	10.611	10.341	10.120	9.948	9.826	9.729	9.631	9.534	9.436		
GROUND LEVEL	18.78	16.55	14.52	12.97	11.86	11.39	10.30	9.70	9.35	9.08	8.97	8.77	8.66	8.33	8.54	8.54	8.30	8.13	8.18	7.69	7.11	7.13	7.57	7.78	7.93	7.75	7.89	7.44	7.82	8.07	7.98		
CHAINAGE ON MCS2	12800	12820	12840	12860	12880	12900	12920	12940	12960	12980	13000	13020	13040	13060	13080	13100	13120	13140	13160	13180	13200	13220	13240	13260	13280	13300	13320	13340	13360	13380	13400		
HORIZONTAL GEOMETRY	R=875.00 L=988.09																K=80.89 L=400.00																
VERTICAL GEOMETRY	P=-5.43% L=180.00										P=-0.49% L=285.00																						
CROSSFALL	E=3.0%																																

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
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METADATA

GROUND SURVEY STANDARD: 67-08-43
 DATE OF CAPTURE: VARIES
 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
 MAIN ROADS PROJECT ZONE: ALB 94
 HEIGHT DATUM: AHD

GHD Level 10, 999 Hay Street Perth WA 6000
 PO Box Y3106 Perth WA 6832 Australia
 T (08) 6222 8222 F (08) 6222 8555
 E permail@ghd.com.au www.ghd.com.au

DRAWING NUMBER/DOCUMENT ID: G:\61\37157\CADD\Drawings
 DESIGNED / DRAWN: V. SINAGRA / E. HARRIS
 VERIFIED:
 DIRECTOR:

mainroads WESTERN AUSTRALIA
 REGIONAL SERVICES DIRECTORATE
 GREAT SOUTHERN REGION
 2-6 Kelly Street Telephone (08) 9892 0555 ALBANY 6330 Fax (08) 9892 0577

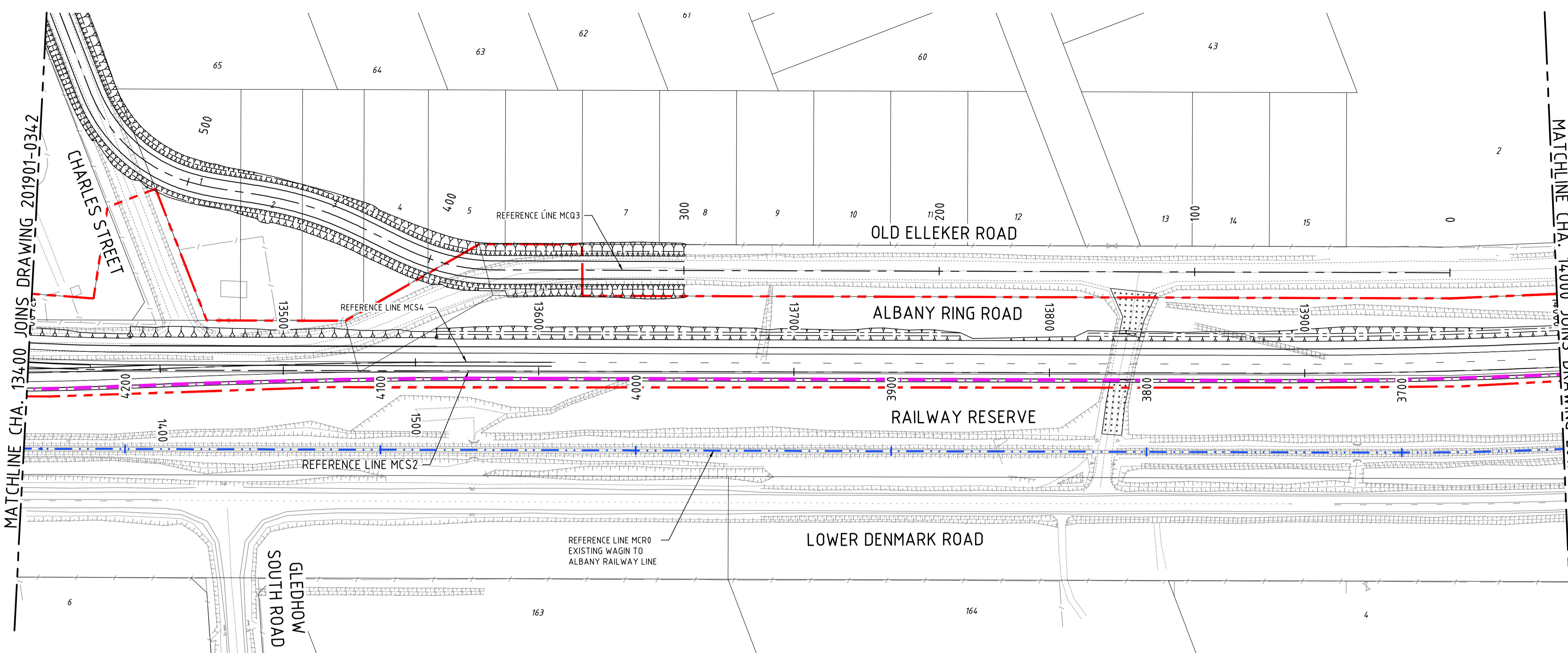
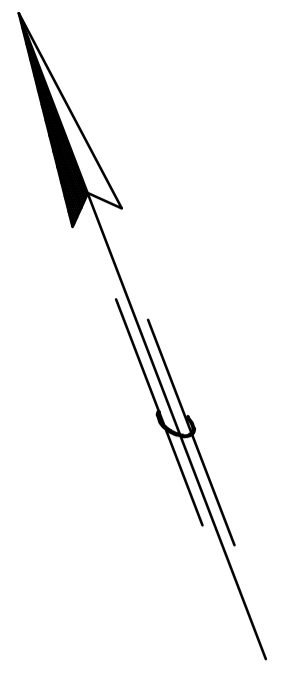
MRWA FILE NUMBER
 APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
 PLAN AND PROFILE - MCS2
 CHA. 12800 TO CHA. 13400

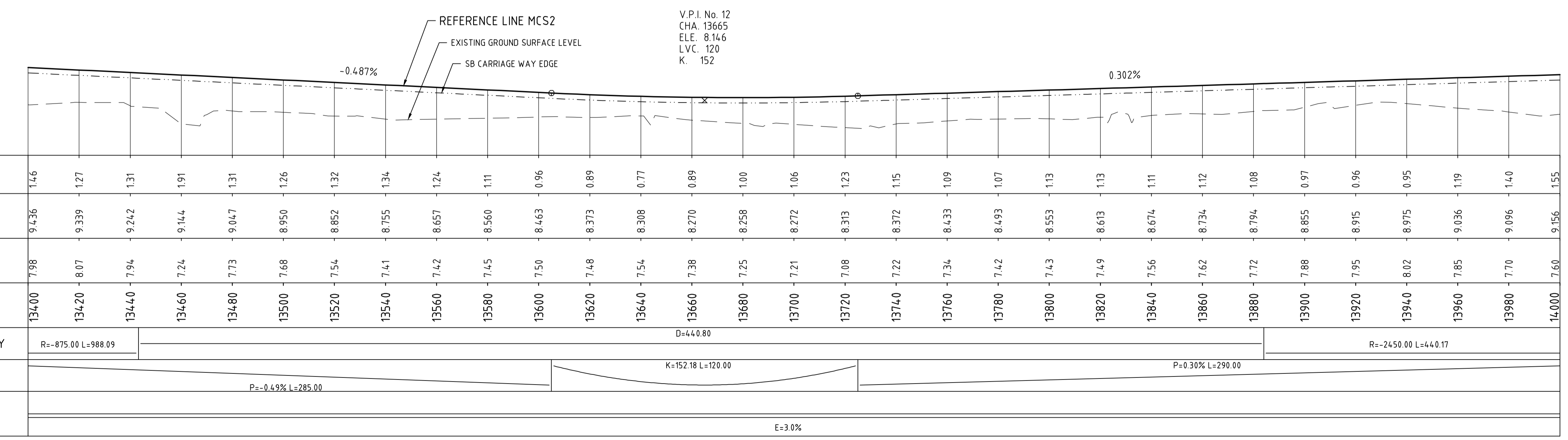
LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0342-B

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

- NOTES**
- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
 - DRAWING TO BE PRINTED IN COLOUR.

LEGEND

	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
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WARNING
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METADATA

GROUND SURVEY STANDARD: 67-08-43
 DATE OF CAPTURE: VARIES
 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
 MAIN ROADS PROJECT ZONE: ALB 94
 HEIGHT DATUM: AHD

GHD Level 10, 999 Hay Street Perth WA 6000
 PO Box Y3106 Perth WA 6832 Australia
 T (08) 6222 8222 F (08) 6222 8555
 E permail@ghd.com.au www.ghd.com.au

DRAWING NUMBER/DOCUMENT ID: G:\61\37157\CADD\Drawings

DESIGNED / DRAWN: V. SINAGRA / E. HARRIS

VERIFIED:

DIRECTOR:

mainroads WESTERN AUSTRALIA

REGIONAL SERVICES DIRECTORATE
 GREAT SOUTHERN REGION

2-6 Kelly Street ALBANY 6330
 Telephone (08) 9892 0555 Fax (08) 9892 0577

MRWA FILE NUMBER

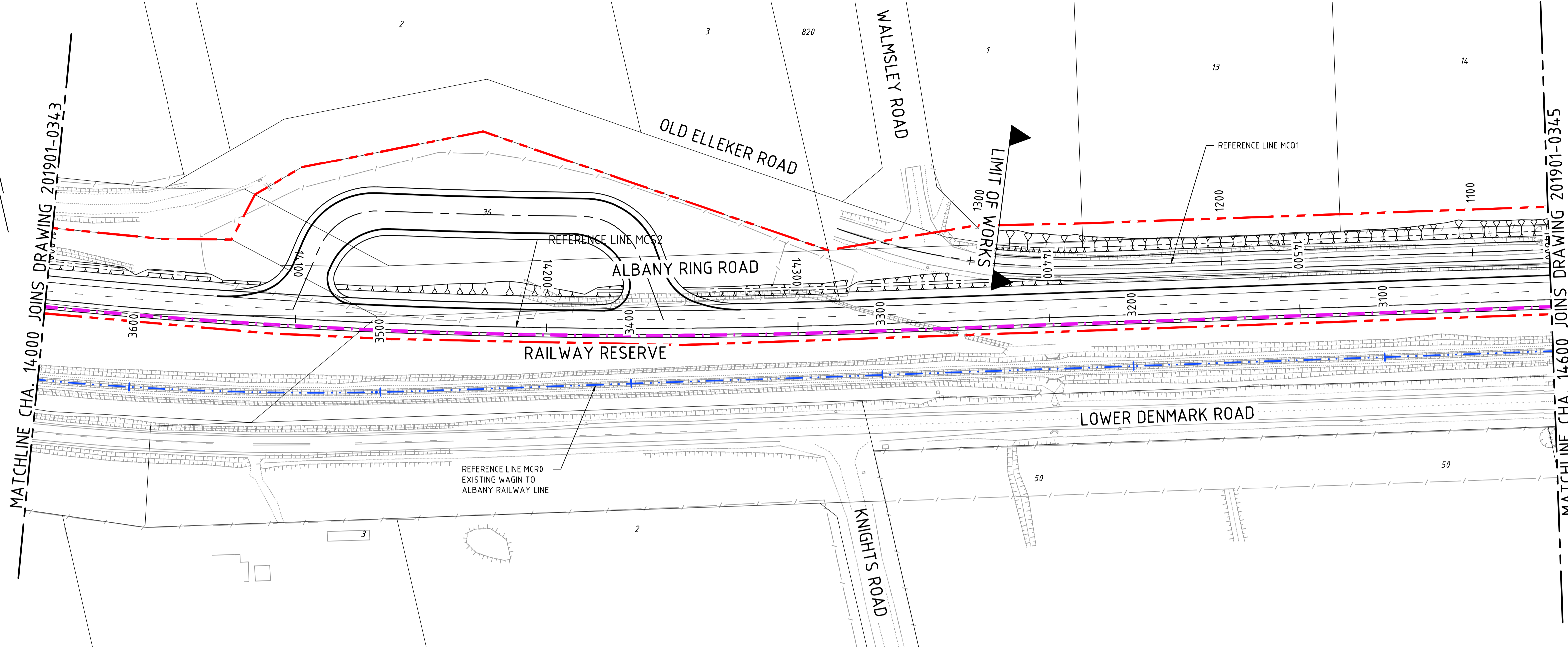
APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
 PLAN AND PROFILE - MCS2
 CHA. 134.00 TO CHA. 14.000

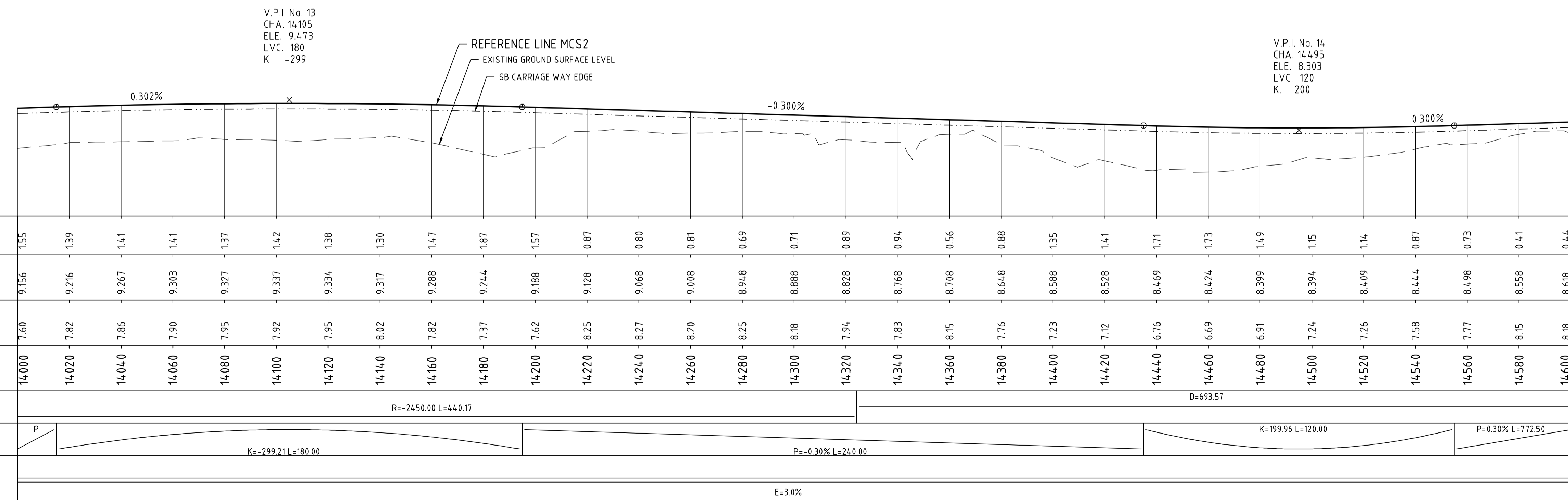
LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0343-B

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
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METADATA

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 DATE OF CAPTURE: VARIES
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 HEIGHT DATUM: AHD

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VERIFIED:
DIRECTOR:

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 REGIONAL SERVICES DIRECTORATE
 GREAT SOUTHERN REGION
 2-6 Kelly Street ALBANY 6330
 Telephone (08) 9892 0555 Fax (08) 9892 0577

MRWA FILE NUMBER
 APPROVED (MRWA)

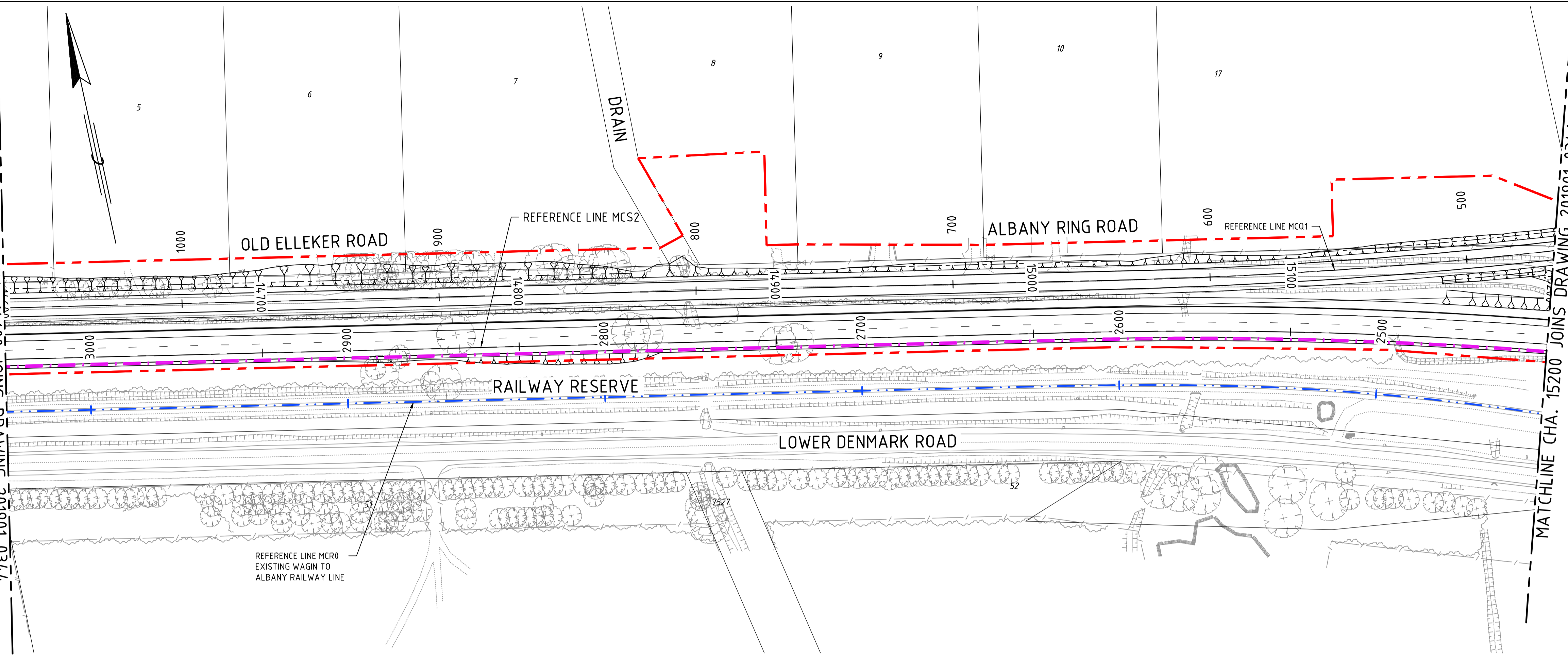
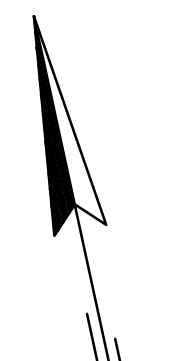
ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
 PLAN AND PROFILE - MCS2
 CHA. 14,000 TO CHA. 14,600

LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0344-B

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100
 HORIZ. 1:1000
 SCALES
 A 1

MATCHLINE CHA. 14600 JOINS DRAWING 201901-0344



PLAN
1:1000

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DRAWING TO BE PRINTED IN COLOUR.

LEGEND

- PROJECT SITE BOUNDARY
- BASE OF DRAIN
- CADASTRAL BOUNDARY
- RETAINING WALL
- NOISE WALL (TBA)
- CONCRETE BARRIER
- RAILWAY CENTRE LINE (EXISTING)
- GRADED EARTHWORKS
- SHARED PATH
- RIP AND REHABILITATE EXISTING PAVEMENT
- HARD LANDSCAPING



WARNING
SERVICES AND CADASTRAL BOUNDARY LOCATIONS SHOWN ARE ONLY INDICATIVE AND MUST NOT BE USED FOR EXCAVATION. THE "ONE CALL 1100" SYSTEM SHALL BE USED TO OBTAIN ACCURATE SYSTEM LOCATIONS.

METADATA

GROUND SURVEY STANDARD: 67-08-43
 DATE OF CAPTURE: VARIES
 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
 MAIN ROADS PROJECT ZONE: ALB 94
 HEIGHT DATUM: AHD

GHD Level 10, 999 Hay Street Perth WA 6000
 PO Box Y3106 Perth WA 6832 Australia
 T (08) 6222 8222 F (08) 6222 8555
 E permail@ghd.com.au www.ghd.com.au

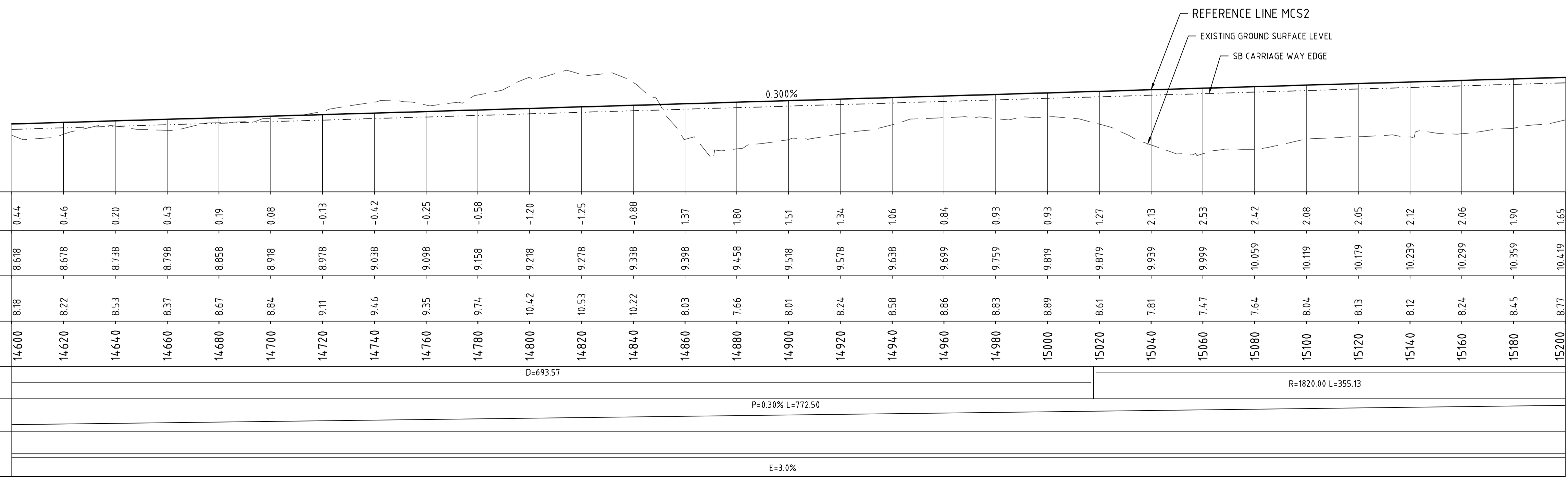
DRAWING NUMBER/DOCUMENT ID: G:\61\371571\CADD\Drawings
 DESIGNED / DRAWN: V. SINAGRA / E. HARRIS
 VERIFIED:
 DIRECTOR:

mainroads WESTERN AUSTRALIA
 REGIONAL SERVICES DIRECTORATE
 GREAT SOUTHERN REGION
 2-6 Kelly Street Telephone (08) 9892 0555 ALBANY 6330 Fax (08) 9892 0577

MRWA FILE NUMBER
 APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCS2
 CHA. 14600 TO CHA. 15200

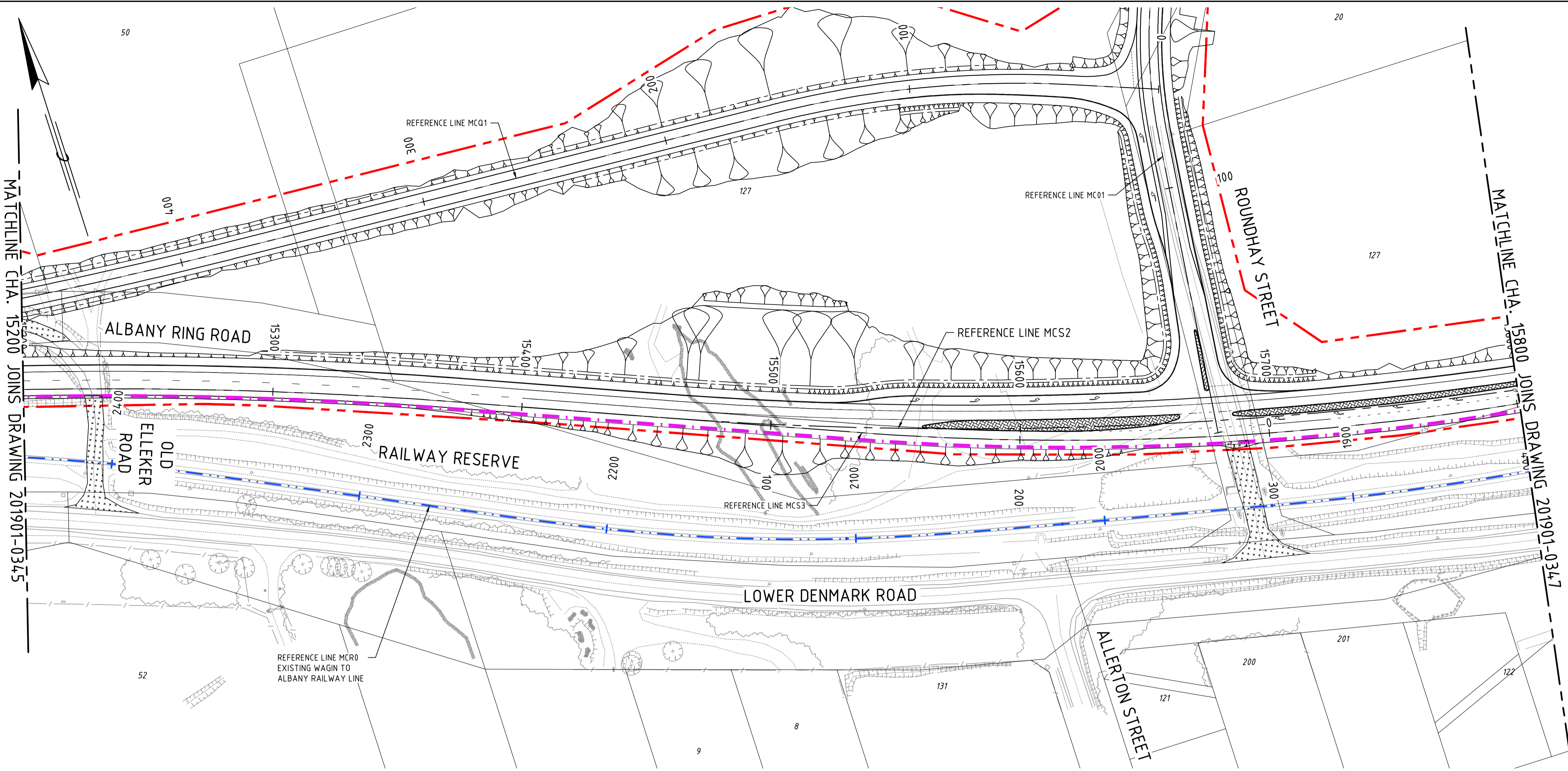
LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0345-B



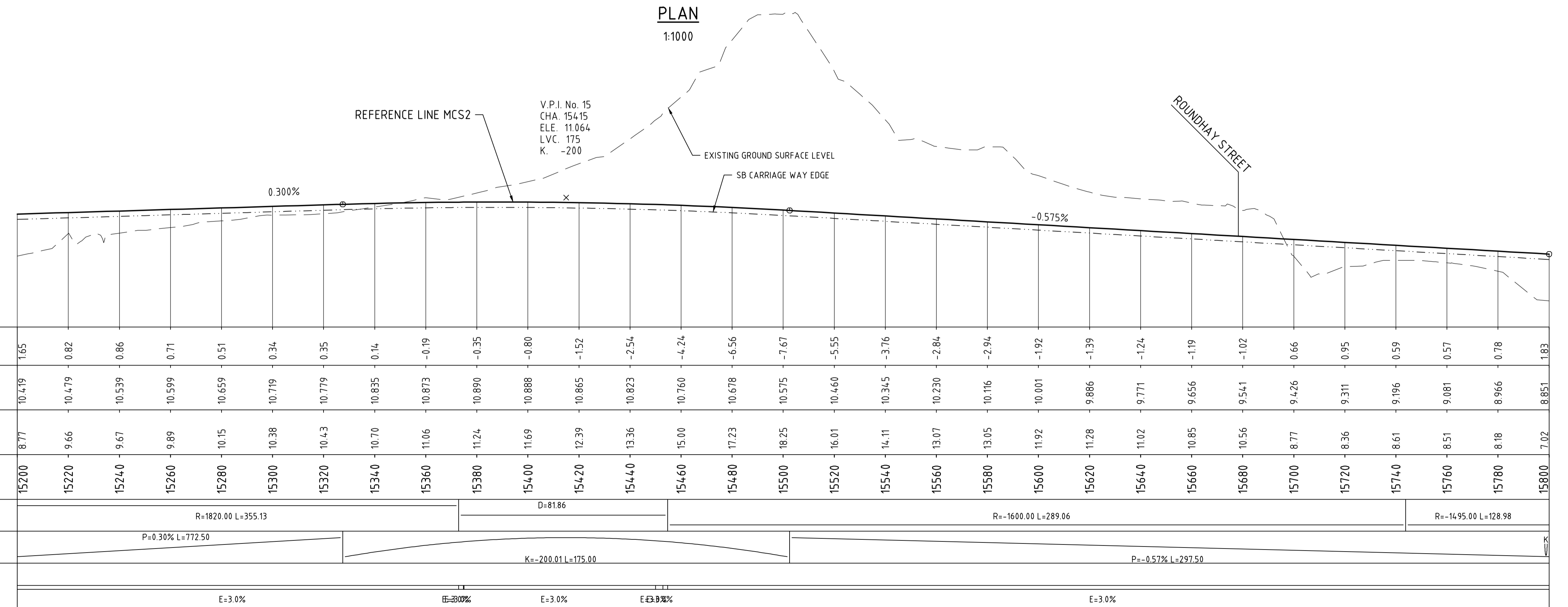
PROFILE
H 1:1000 V 1:100

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
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METADATA

GROUND SURVEY STANDARD: 67-08-43
 DATE OF CAPTURE: VARIES
 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
 MAIN ROADS PROJECT ZONE: ALB 94
 HEIGHT DATUM: AHD

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DRAWING NUMBER/DOCUMENT ID	G:\61\37157\CADD\Drawings
DESIGNED / DRAWN	V. SINAGRA / E. HARRIS
VERIFIED	
DIRECTOR	

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 REGIONAL SERVICES DIRECTORATE
 GREAT SOUTHERN REGION
 2-6 Kelly Street ALBANY 6330
 Telephone (08) 9892 0555 Fax (08) 9892 0577

MRWA FILE NUMBER
 APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCS2
 CHA. 15200 TO CHA. 15800

LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0346-B

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100
 HORIZ. 1:1000
 SCALES
 A 1

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

GHD Level 10, 999 Hay Street Perth WA 6000
 PO Box Y3106 Perth WA 6832 Australia
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 E permail@ghd.com.au www.ghd.com.au

DRAWING NUMBER/DOCUMENT ID: G:\61\371571\CADD\Drawings
 DESIGNED / DRAWN: V. SINAGRA / E. HARRIS
 VERIFIED:
 DIRECTOR:

mainroads
 WESTERN AUSTRALIA

REGIONAL SERVICES DIRECTORATE
 GREAT SOUTHERN REGION

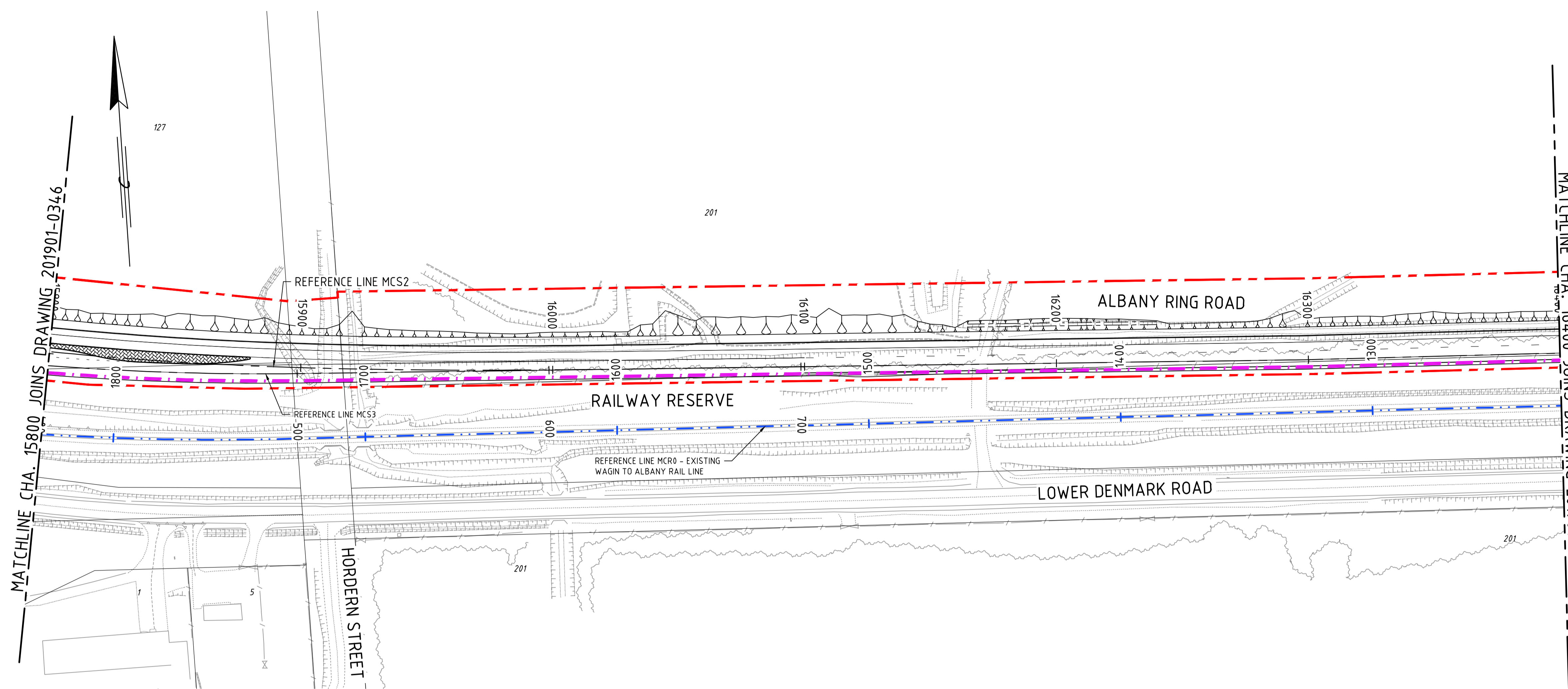
2-6 Kelly Street ALBANY 6330
 Telephone (08) 9892 0555 Fax (08) 9892 0577

MRWA FILE NUMBER

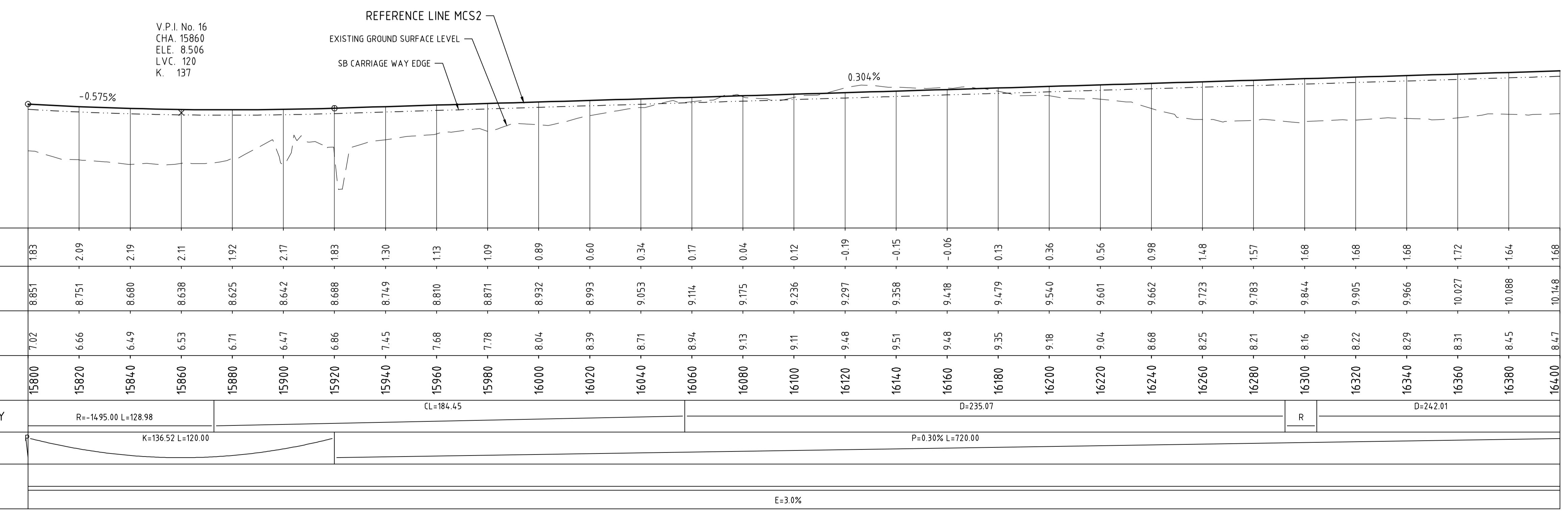
APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCS2
 CHA. 15800 TO CHA. 16400

LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0347-B



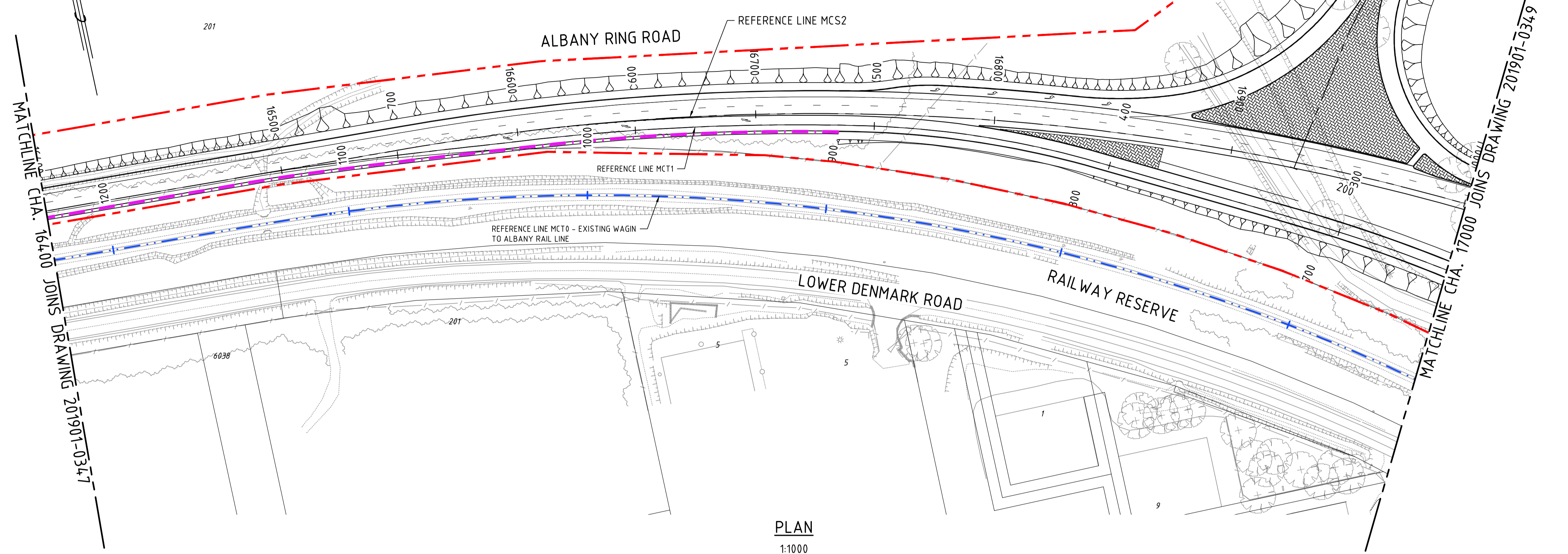
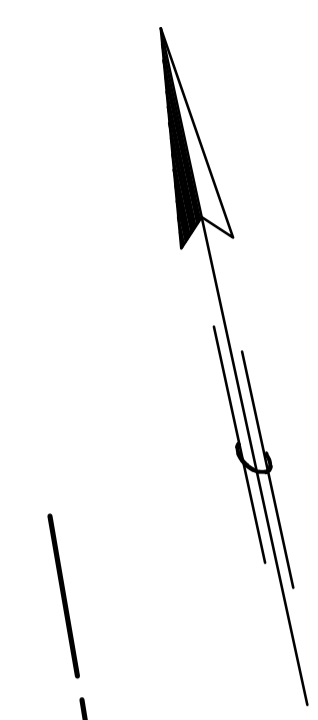
PLAN
1:1000



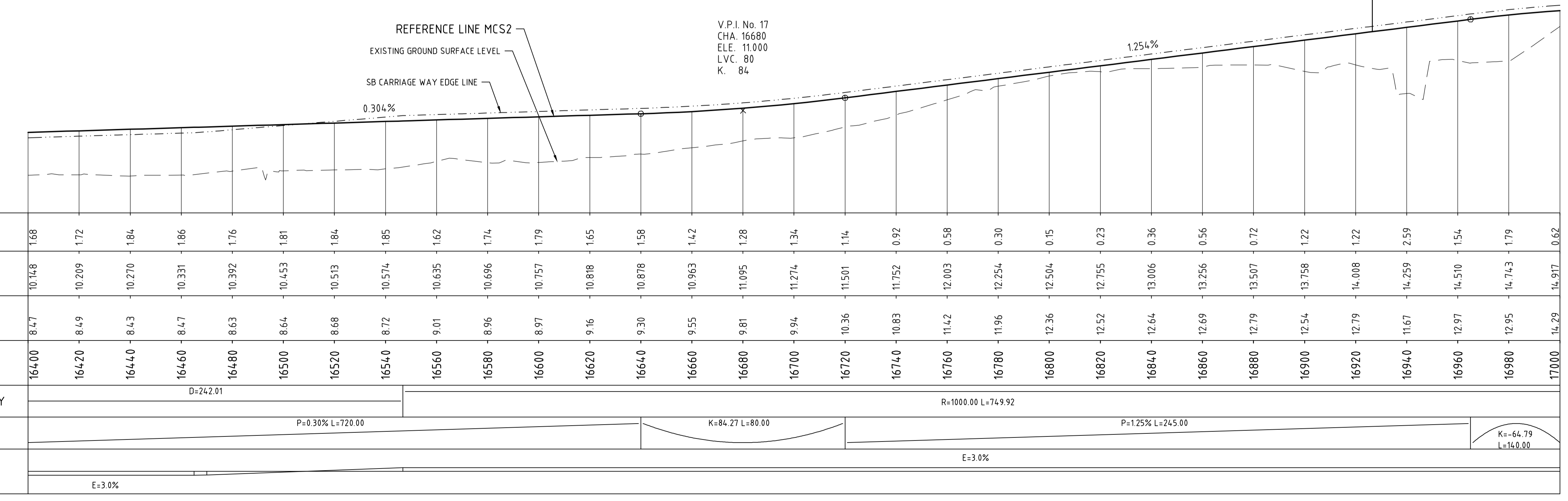
PROFILE
H 1:1000 V 1:100

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100 HORIZ. 1:1000 SCALES A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

	164.00	164.20	164.40	164.60	164.80	165.00	165.20	165.40	165.60	165.80	166.00	166.20	166.40	166.60	166.80	167.00	167.20	167.40	167.60	167.80	168.00	168.20	168.40	168.60	168.80	169.00	169.20	169.40	169.60	169.80	1700.00
DESIGN TO GROUND LEVEL DIFFERENCE	1.68	1.72	1.84	1.86	1.76	1.81	1.84	1.85	1.62	1.74	1.79	1.65	1.58	1.42	1.28	1.34	1.14	0.92	0.58	0.30	0.15	0.23	0.36	0.56	0.72	1.22	1.22	2.59	1.54	1.79	0.62
DESIGN LEVEL	10.148	10.209	10.270	10.331	10.392	10.453	10.513	10.574	10.635	10.696	10.757	10.818	10.878	10.963	11.095	11.274	11.501	11.752	12.003	12.254	12.504	12.755	13.006	13.256	13.507	13.758	14.008	14.259	14.510	14.743	14.917
GROUND LEVEL	8.47	8.49	8.43	8.47	8.63	8.64	8.68	8.72	9.01	8.96	8.97	9.16	9.30	9.55	9.81	9.94	10.36	10.83	11.42	11.96	12.36	12.52	12.64	12.69	12.79	12.54	12.79	11.67	12.97	12.95	14.29
CHAINAGE ON MCS2	164.00	164.20	164.40	164.60	164.80	165.00	165.20	165.40	165.60	165.80	166.00	166.20	166.40	166.60	166.80	167.00	167.20	167.40	167.60	167.80	168.00	168.20	168.40	168.60	168.80	169.00	169.20	169.40	169.60	169.80	1700.00
HORIZONTAL GEOMETRY	D=242.01										R=1000.00 L=749.92																				
VERTICAL GEOMETRY	P=0.30% L=720.00										K=84.27 L=80.00						P=1.25% L=245.00				K=-64.79 L=146.00										
CROSSFALL	E=3.0%																	E=3.0%													

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
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METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

GHD Level 10, 999 Hay Street Perth WA 6000
PO Box Y3106 Perth WA 6832 Australia
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E permail@ghd.com.au www.ghd.com.au

DRAWING NUMBER/DOCUMENT ID:	G:\61\37157\CADD\Drawings
DESIGNED / DRAWN	V. SINAGRA / E. HARRIS
VERIFIED	
DIRECTOR	

mainroads WESTERN AUSTRALIA
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2-6 Kelly Street ALBANY 6330
Telephone (08) 9892 0555 Fax (08) 9892 0577

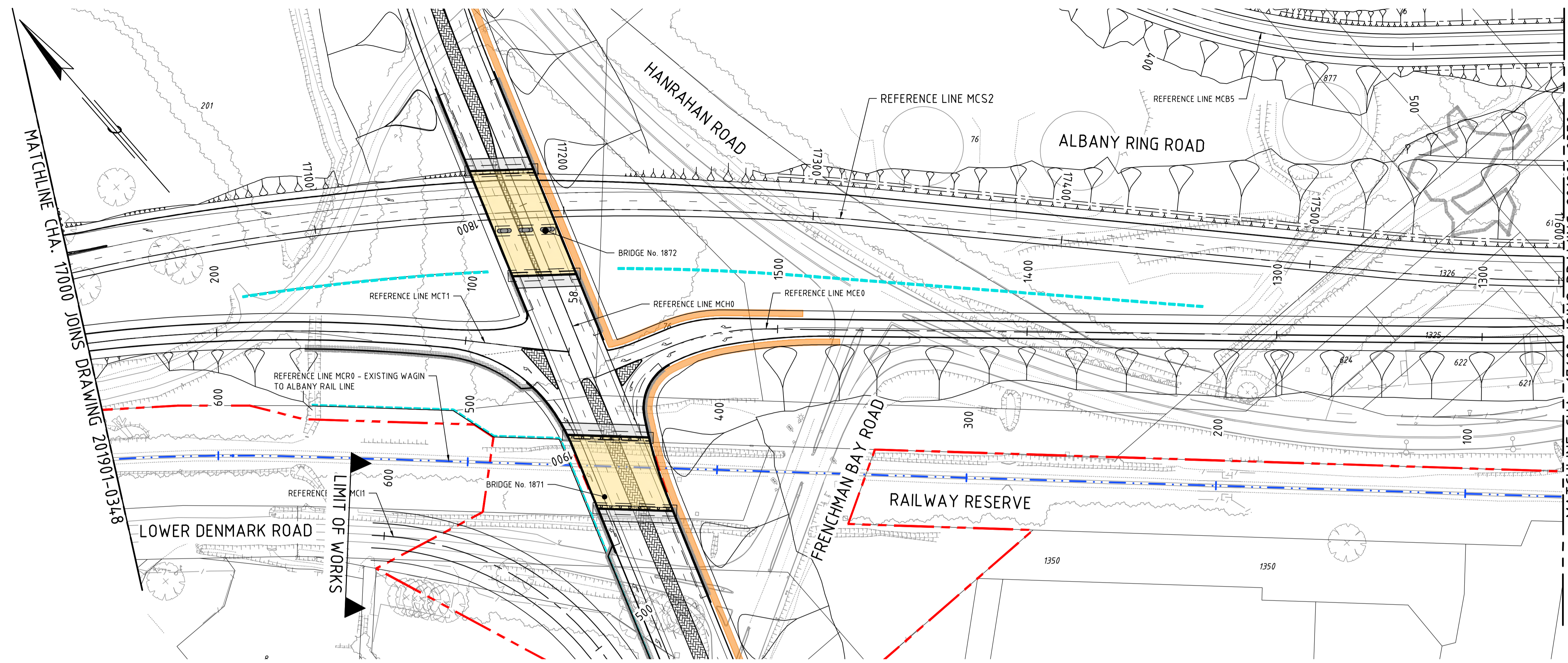
MRWA FILE NUMBER
APPROVED (MRWA)

ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCS2
CHA. 164.00 TO CHA. 1700.00

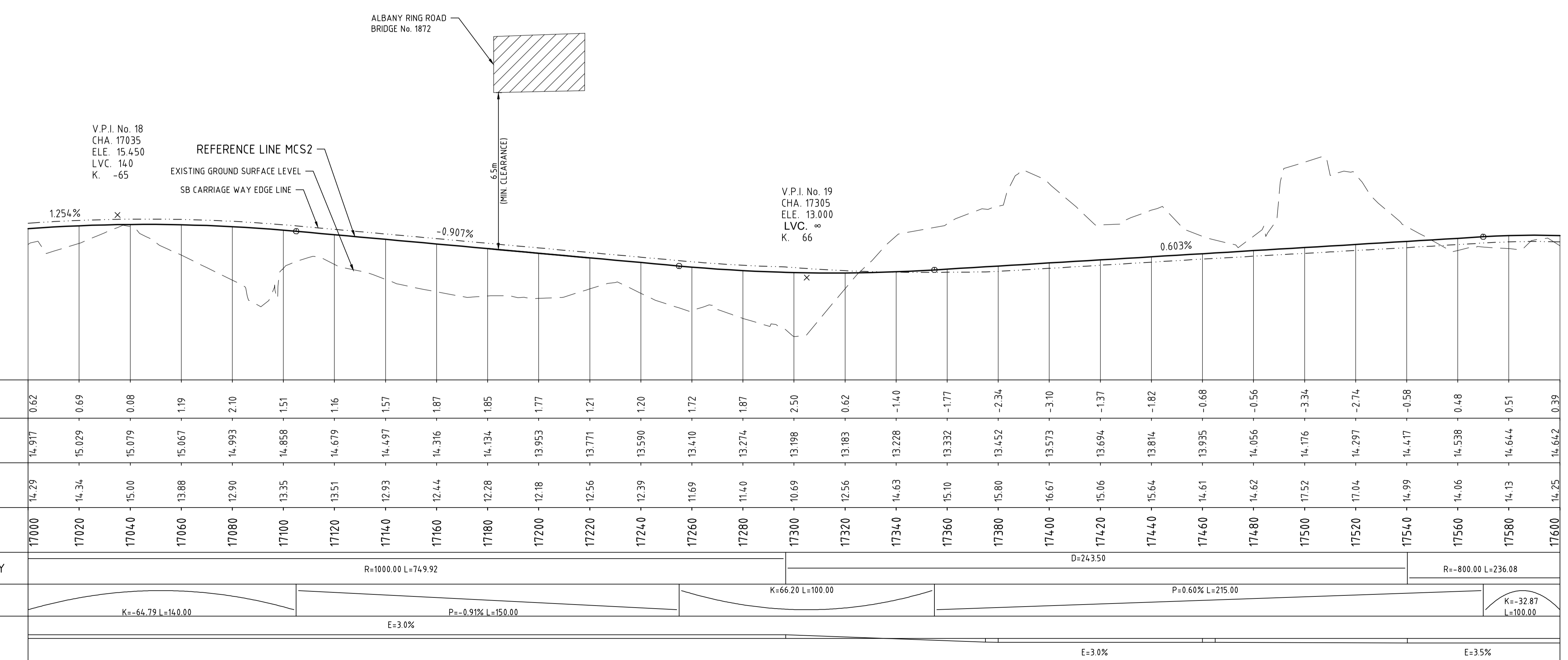
LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0348-B

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
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METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

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VERIFIED	
DIRECTOR	

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GREAT SOUTHERN REGION
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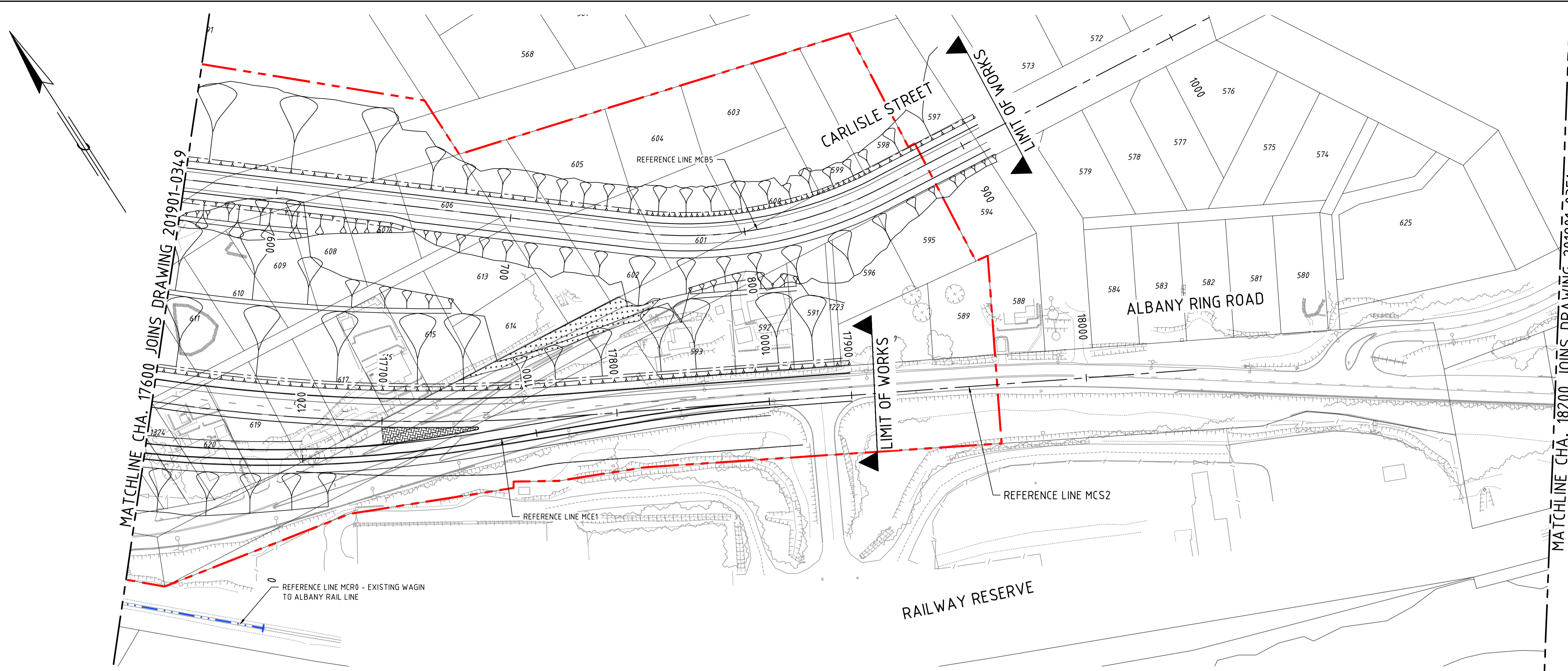
MRWA FILE NUMBER
APPROVED (MRWA)

ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCS2
CHA. 17000 TO CHA. 17600

LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0349-B

PRELIMINARY
DATE : 10 December 2019

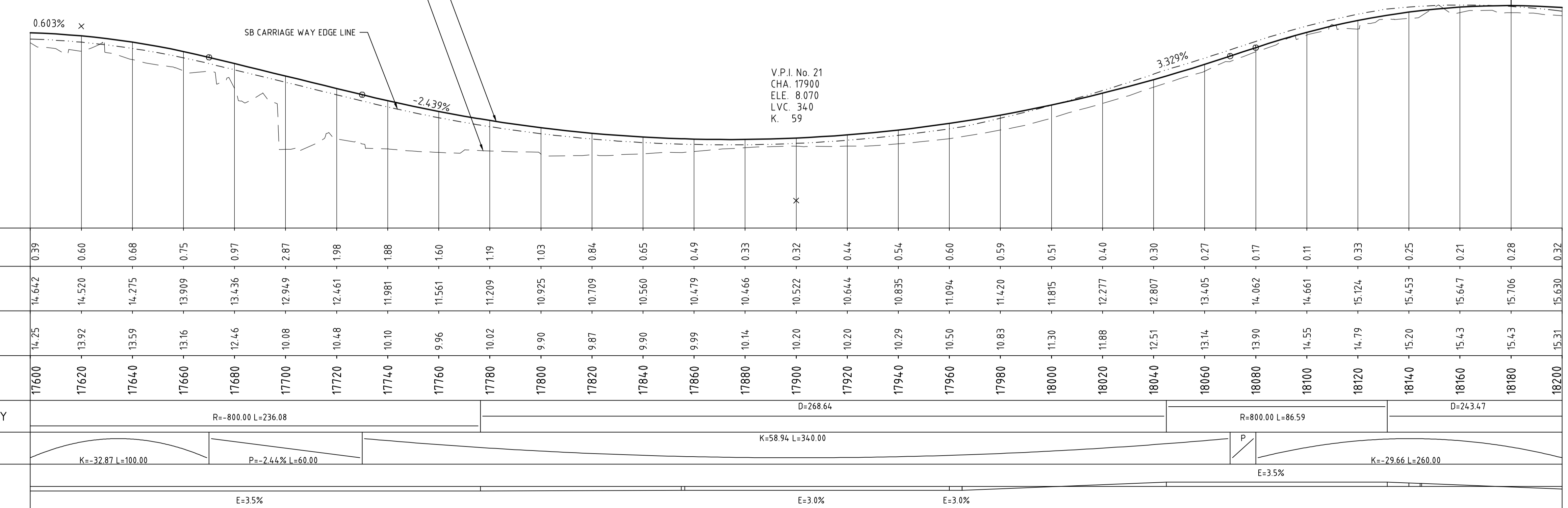
VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000

V.P.I. No. 20
CHA. 17620
ELE. 14.900
LVC. 100
K. -33

V.P.I. No. 21
CHA. 17900
ELE. 8.070
LVC. 34.0
K. 59



PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

- NOTES**
- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
 - DRAWING TO BE PRINTED IN COLOUR.

LEGEND

	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
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	SHARED PATH
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METADATA

GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

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DRAWING NUMBER/DOCUMENT ID	G:\61\371571\CADD\Drawings
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VERIFIED	
DIRECTOR	

mainroads WESTERN AUSTRALIA
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GREAT SOUTHERN REGION
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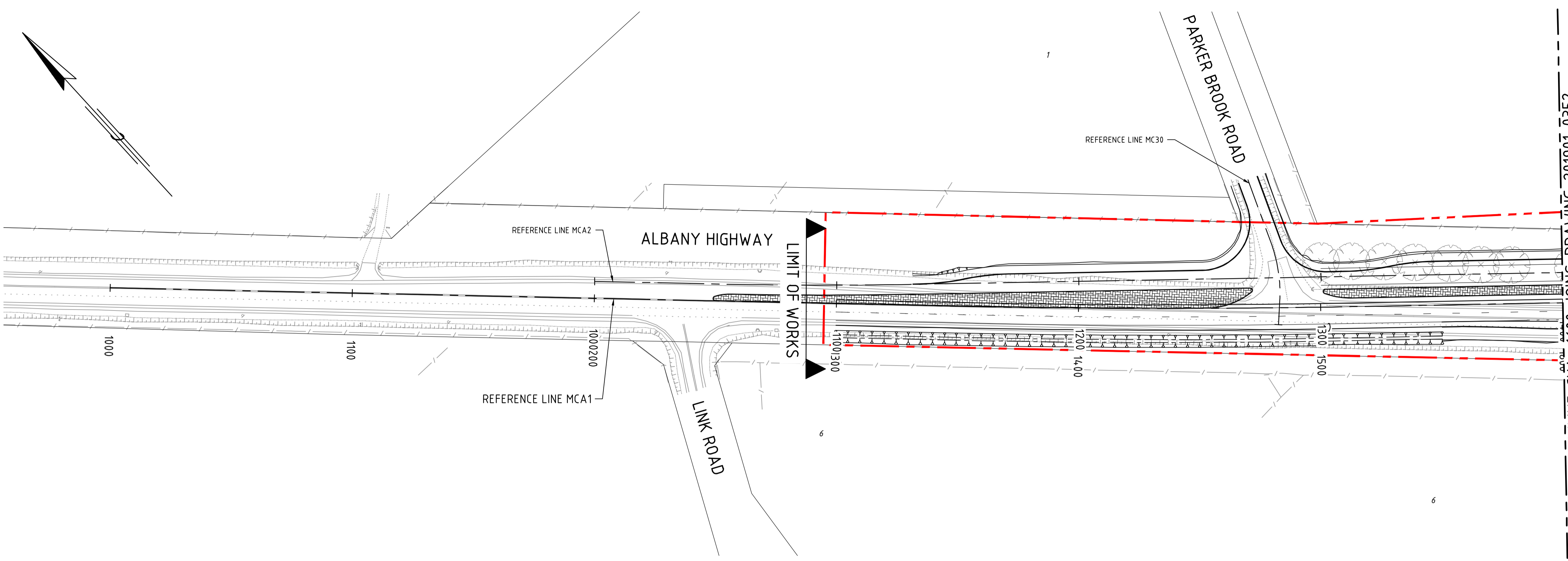
MRWA FILE NUMBER
APPROVED (MRWA)

ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCS2
CHA. 17600 TO CHA. 18200

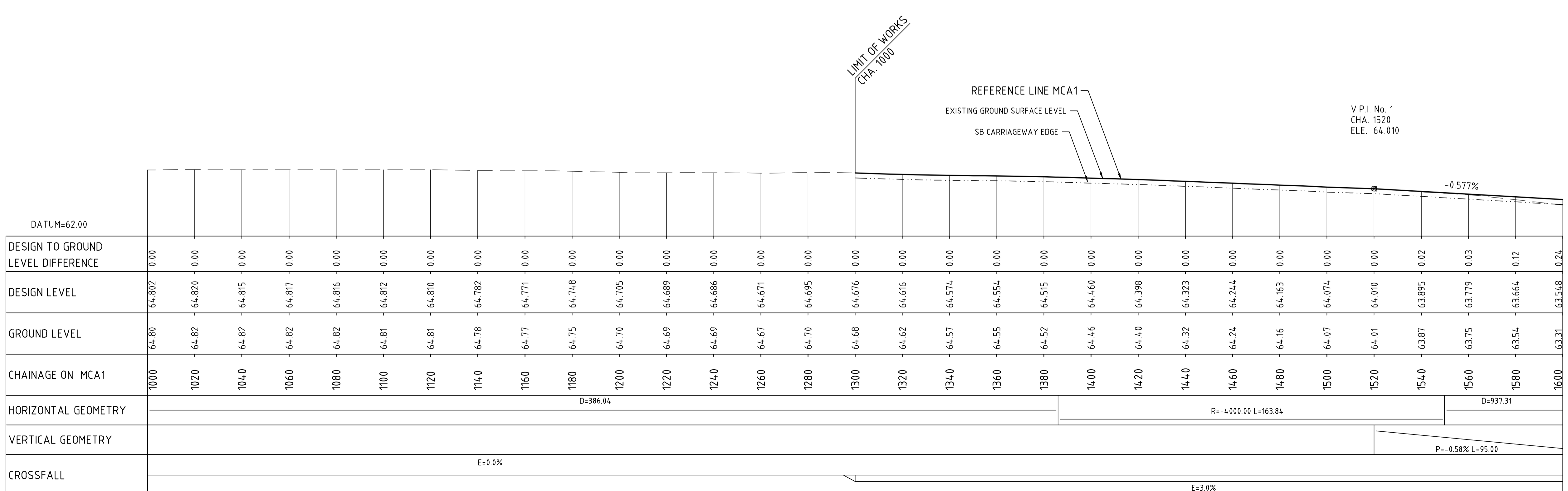
LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0350-B

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
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METADATA

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 DATE OF CAPTURE: VARIES
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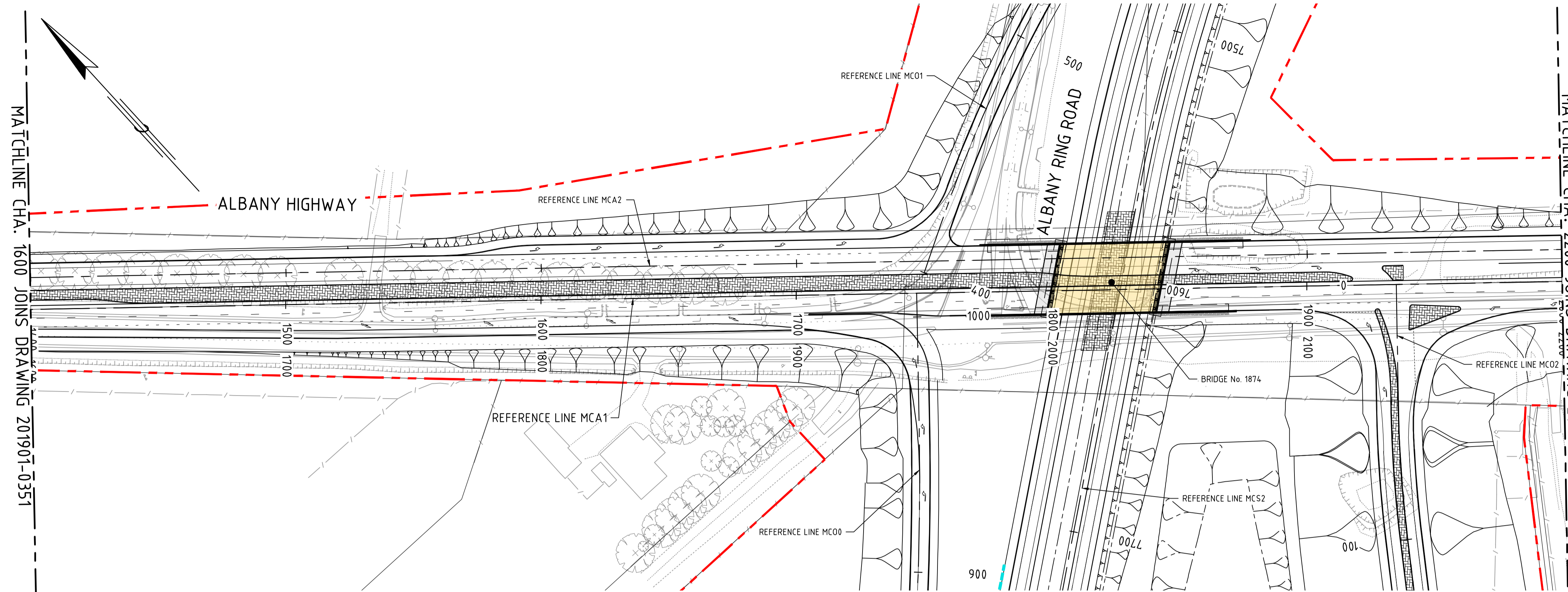
MRWA FILE NUMBER
 APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
 PLAN AND PROFILE - MCA1
 CHA. 1000 TO CHA. 1600

LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0351-B

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100
 HORIZ. 1:1000
 SCALES
 A 1



PLAN
1:1000

V.P.I. No. 3
CHA. 2020
ELE. 66.300
LVC. 300
K. -79



PROFILE
H 1:1000 V 1:100

DESIGN TO GROUND LEVEL DIFFERENCE	DESIGN LEVEL	GROUND LEVEL	CHAINAGE ON MCA1
0.24	63.548	63.31	1600
-0.34	63.434	63.09	1620
-0.48	63.349	62.87	1640
-0.68	63.303	62.62	1660
-0.94	63.297	62.36	1680
-0.94	63.331	62.39	1700
-0.96	63.404	62.44	1720
-1.33	63.518	62.19	1740
-1.34	63.671	62.34	1760
-2.02	63.863	61.84	1780
-2.47	64.066	61.59	1800
-2.80	64.269	61.47	1820
-3.03	64.472	61.44	1840
-3.29	64.675	61.38	1860
-3.65	64.872	61.22	1880
-4.10	65.025	60.93	1900
-4.53	65.127	60.60	1920
-4.66	65.179	60.52	1940
-5.07	65.180	60.11	1960
-5.11	65.131	60.02	1980
-4.82	65.032	60.21	2000
-6.44	64.882	58.44	2020
-6.53	64.682	58.16	2040
-6.78	64.431	57.66	2060
-6.28	64.130	57.85	2080
-5.88	63.778	57.90	2100
-5.42	63.376	57.95	2120
-4.82	62.924	58.10	2140
-4.87	62.421	57.55	2160
-4.61	61.874	57.26	2180
-4.24	61.321	57.08	2200

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
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B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
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	HARD LANDSCAPING



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METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

GHD Level 10, 999 Hay Street Perth WA 6000
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E permail@ghd.com.au www.ghd.com.au

DRAWING NUMBER/DOCUMENT ID:	G:\61\371571\CADD\Drawings
DESIGNED / DRAWN:	V. SINAGRA / E. HARRIS
VERIFIED:	
DIRECTOR:	

mainroads
WESTERN AUSTRALIA
REGIONAL SERVICES DIRECTORATE
GREAT SOUTHERN REGION
2-6 Kelly Street ALBANY 6330
Telephone (08) 9892 0555 Fax (08) 9892 0577

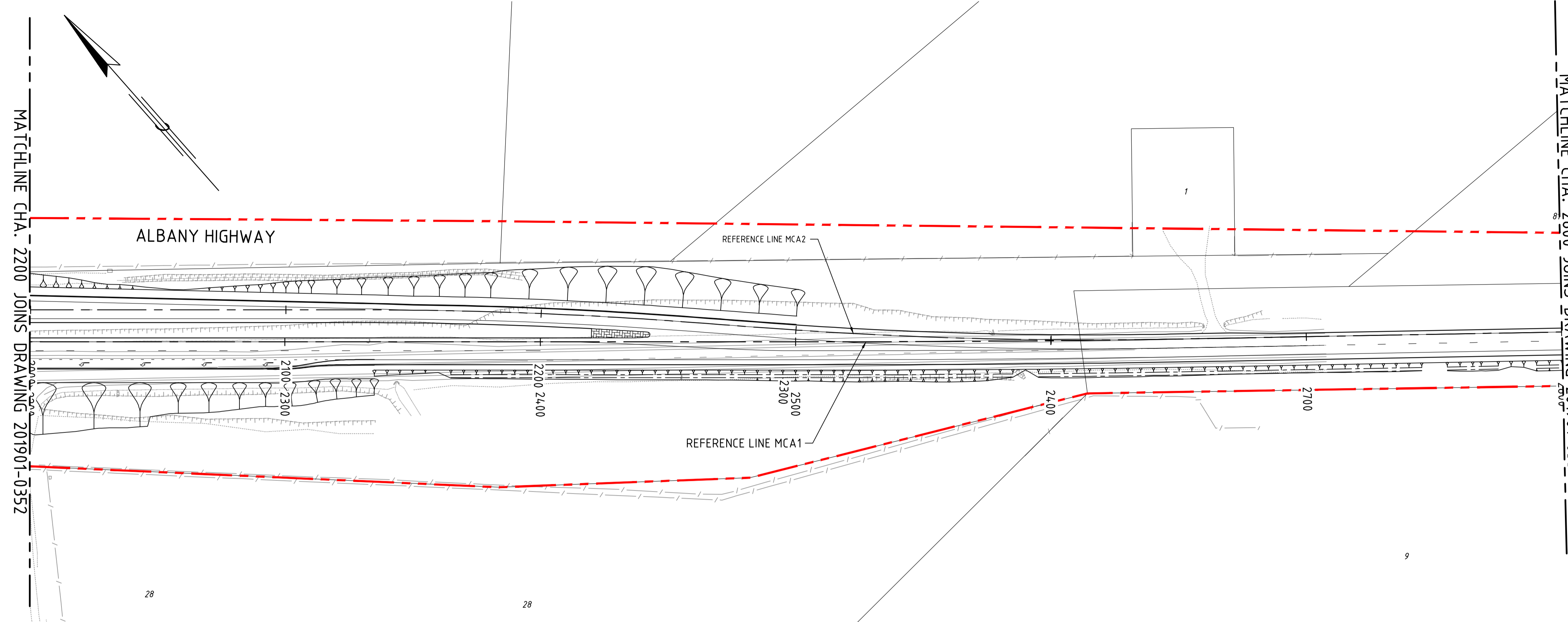
MRWA FILE NUMBER
APPROVED (MRWA)

ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCA1
CHA. 1600 TO CHA. 2200

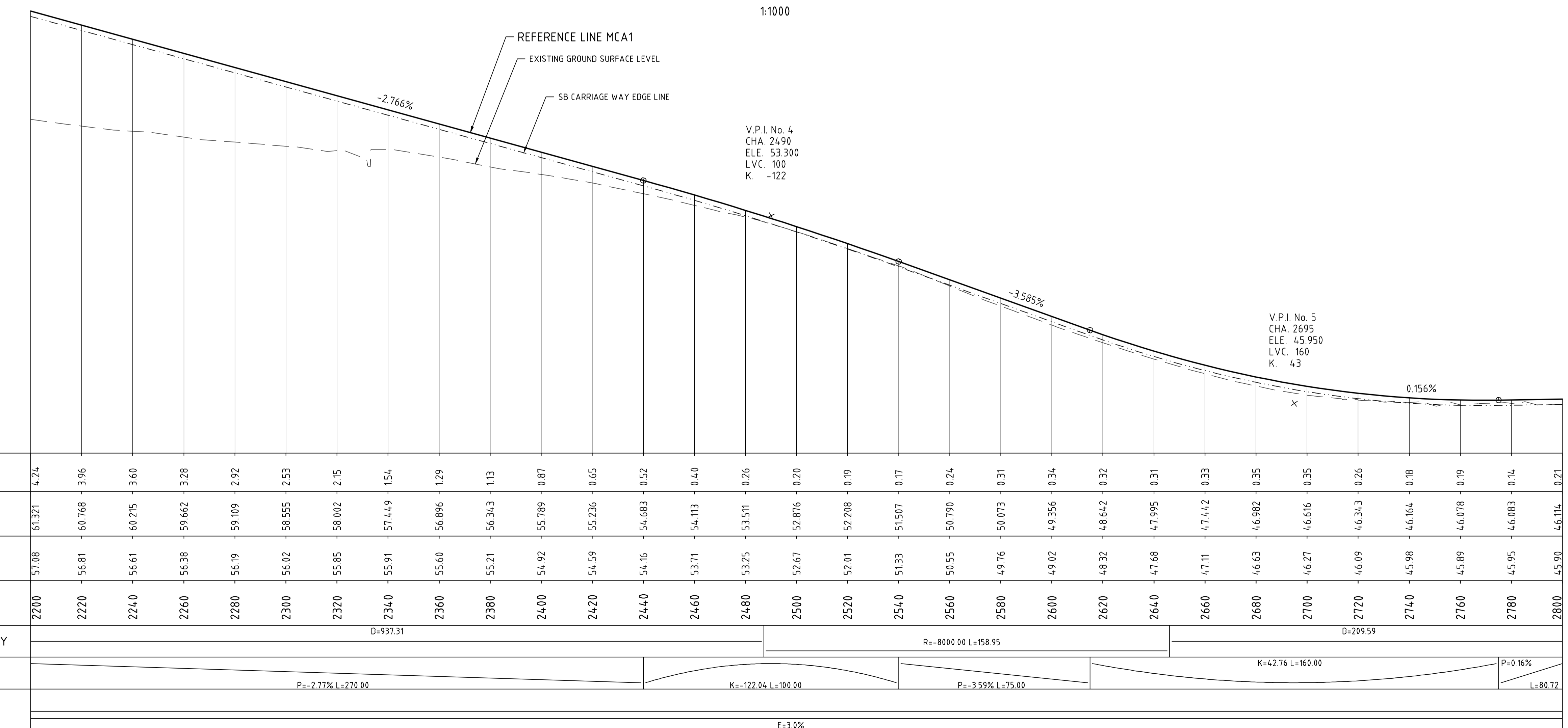
LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0352-B

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

	2200	2220	2240	2260	2280	2300	2320	2340	2360	2380	2400	2420	2440	2460	2480	2500	2520	2540	2560	2580	2600	2620	2640	2660	2680	2700	2720	2740	2760	2780	2800	
DESIGN TO GROUND LEVEL DIFFERENCE	4.24	3.96	3.60	3.28	2.92	2.53	2.15	1.54	1.29	1.13	0.87	0.65	0.52	0.40	0.26	0.20	0.19	0.17	0.24	0.31	0.34	0.32	0.31	0.33	0.35	0.35	0.26	0.18	0.19	0.14	0.21	
DESIGN LEVEL	57.32	60.768	60.215	59.662	59.109	58.555	58.002	57.449	56.896	56.343	55.789	55.236	54.683	54.113	53.511	52.876	52.208	51.507	50.790	50.073	49.356	48.642	47.995	47.442	46.982	46.616	46.343	46.164	46.078	46.083	46.114	
GROUND LEVEL	57.08	56.81	56.61	56.38	56.19	56.02	55.85	55.91	55.60	55.21	54.92	54.59	54.16	53.71	53.25	52.67	52.01	51.33	50.55	49.76	49.02	48.32	47.68	47.11	46.63	46.27	46.09	45.98	45.89	45.95	45.90	
CHAINAGE ON MCA1	2200	2220	2240	2260	2280	2300	2320	2340	2360	2380	2400	2420	2440	2460	2480	2500	2520	2540	2560	2580	2600	2620	2640	2660	2680	2700	2720	2740	2760	2780	2800	
HORIZONTAL GEOMETRY	D=937.31																R=-8000.00 L=158.95						D=209.59									
VERTICAL GEOMETRY	P=-2.77% L=270.00																K=-122.04 L=100.00						P=-3.59% L=75.00				K=42.76 L=160.00				P=0.16% L=80.72	
CROSSFALL	E=3.0%																															

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
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METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
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HEIGHT DATUM:	AHD

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VERIFIED:
DIRECTOR:

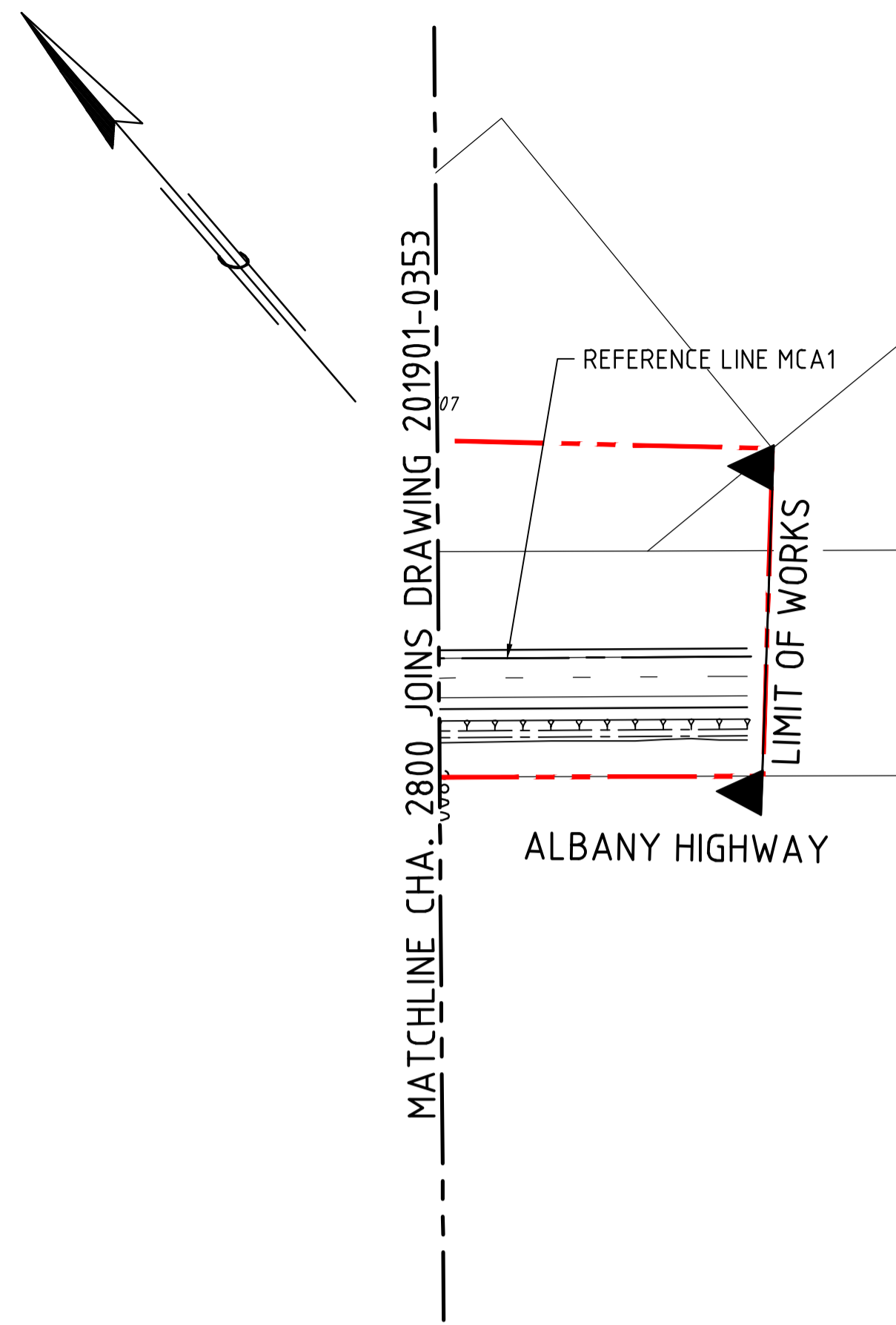
mainroads WESTERN AUSTRALIA
REGIONAL SERVICES DIRECTORATE
GREAT SOUTHERN REGION
2-6 Kelly Street ALBANY 6330
Telephone (08) 9892 0555 Fax (08) 9892 0577

MRWA FILE NUMBER
APPROVED (MRWA)
ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCA1
CHA. 2200 TO CHA. 2800

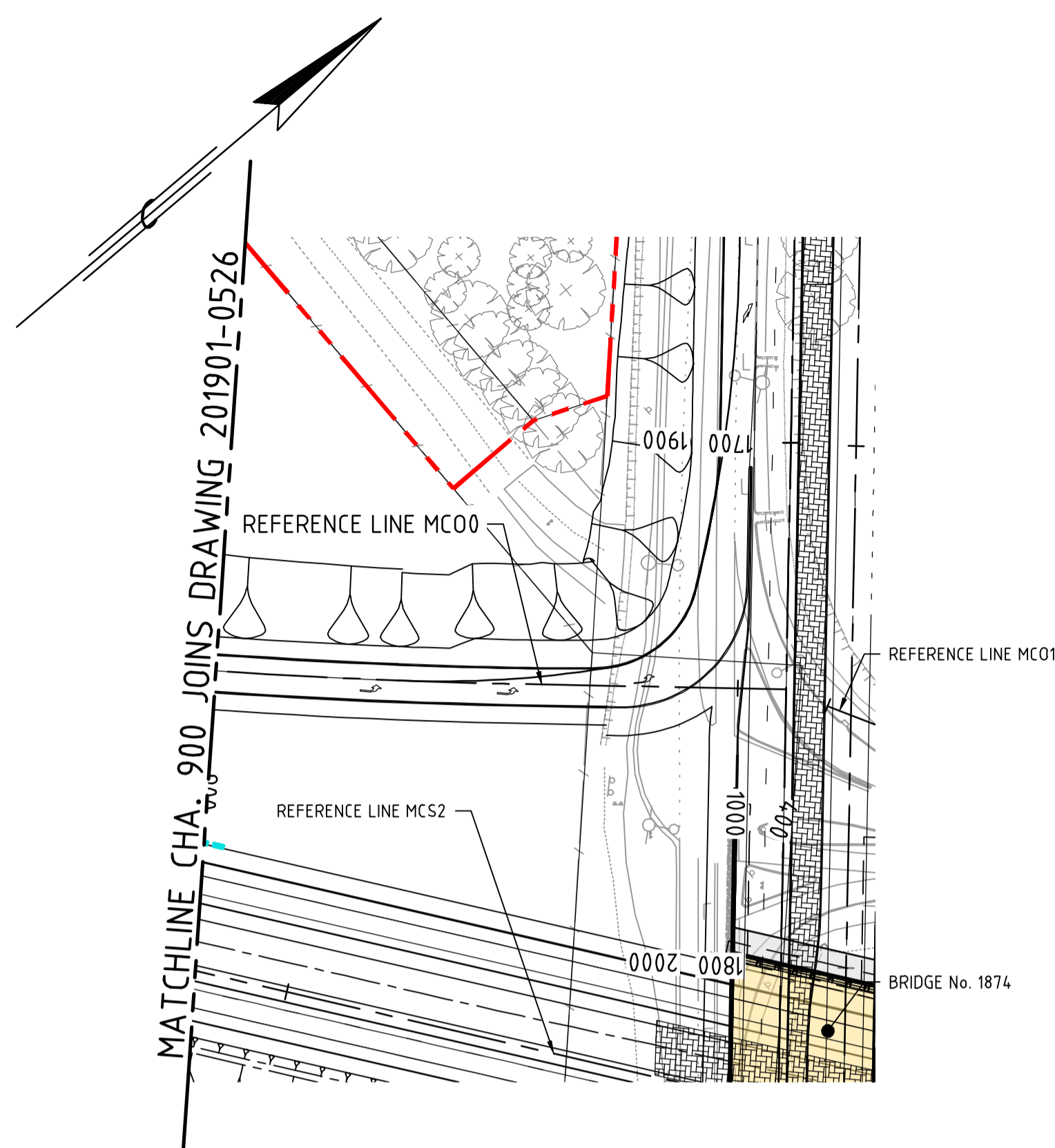
LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0353-B

PRELIMINARY
DATE : 10 December 2019

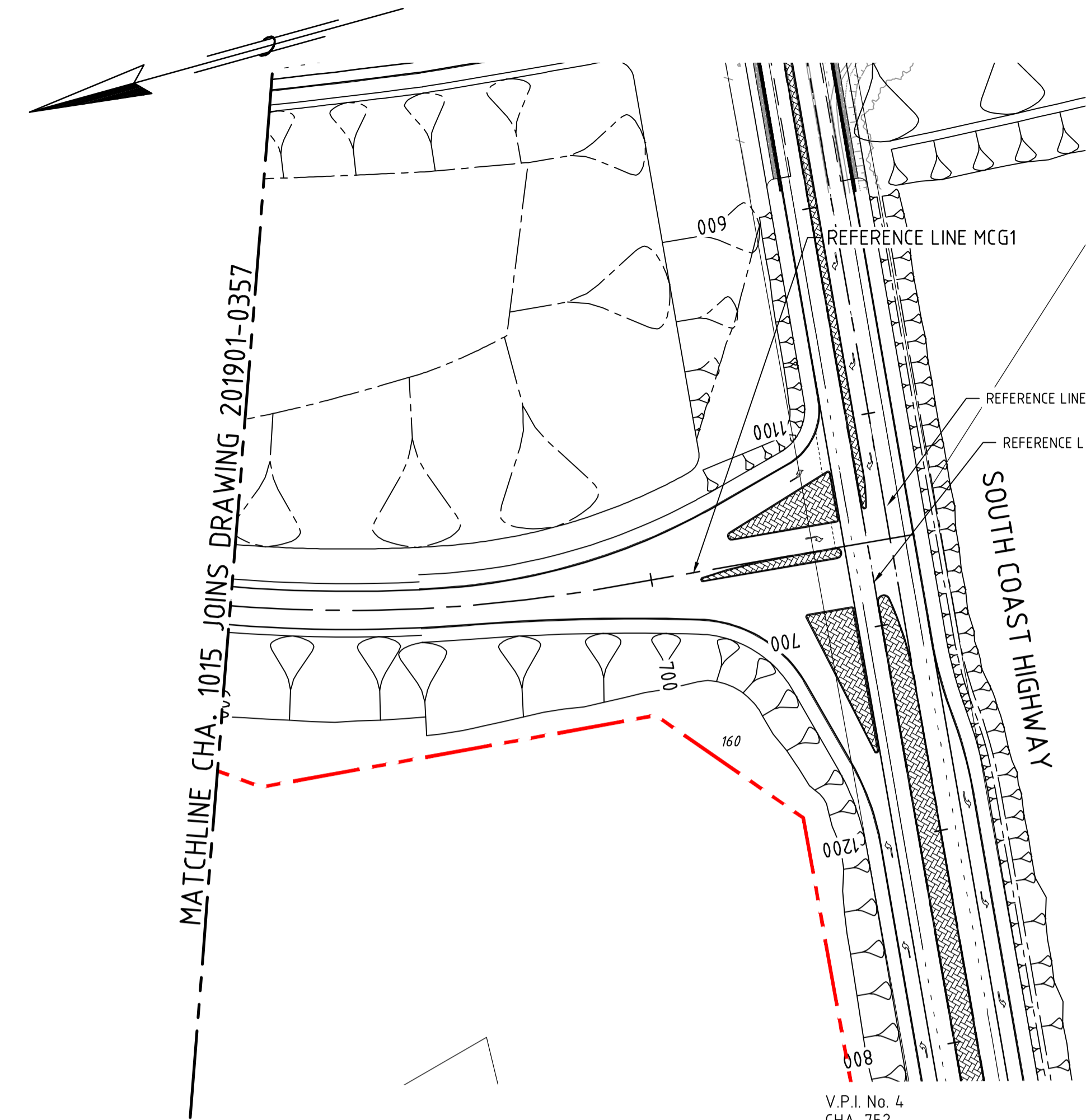
VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



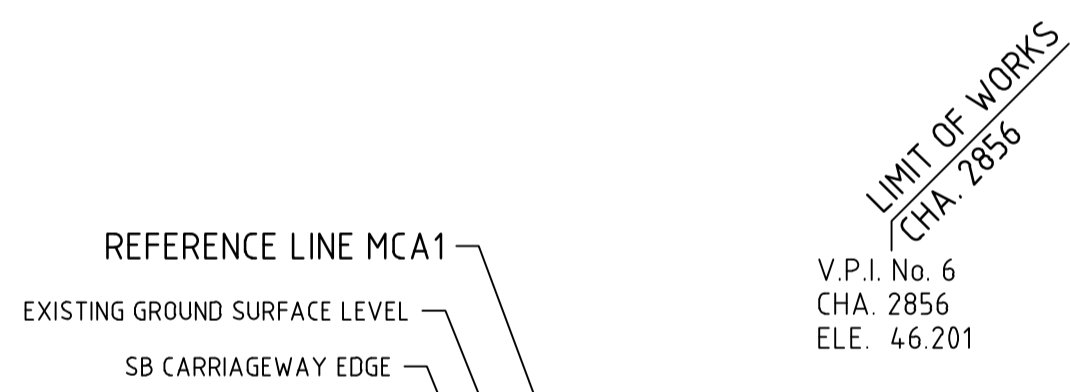
PLAN
1:1000



PLAN
1:1000

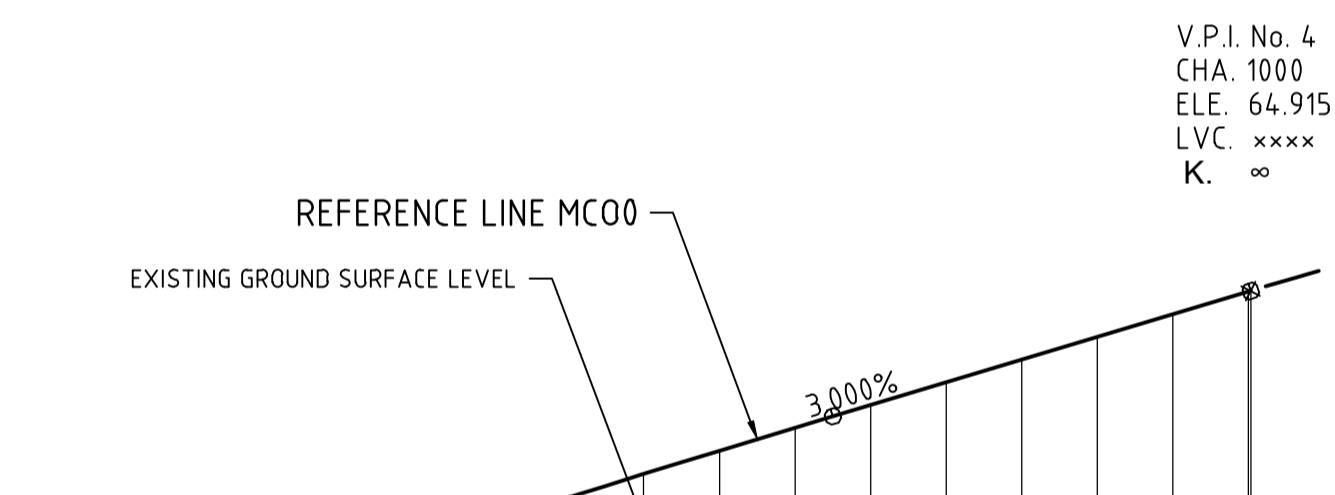


PLAN
1:1000



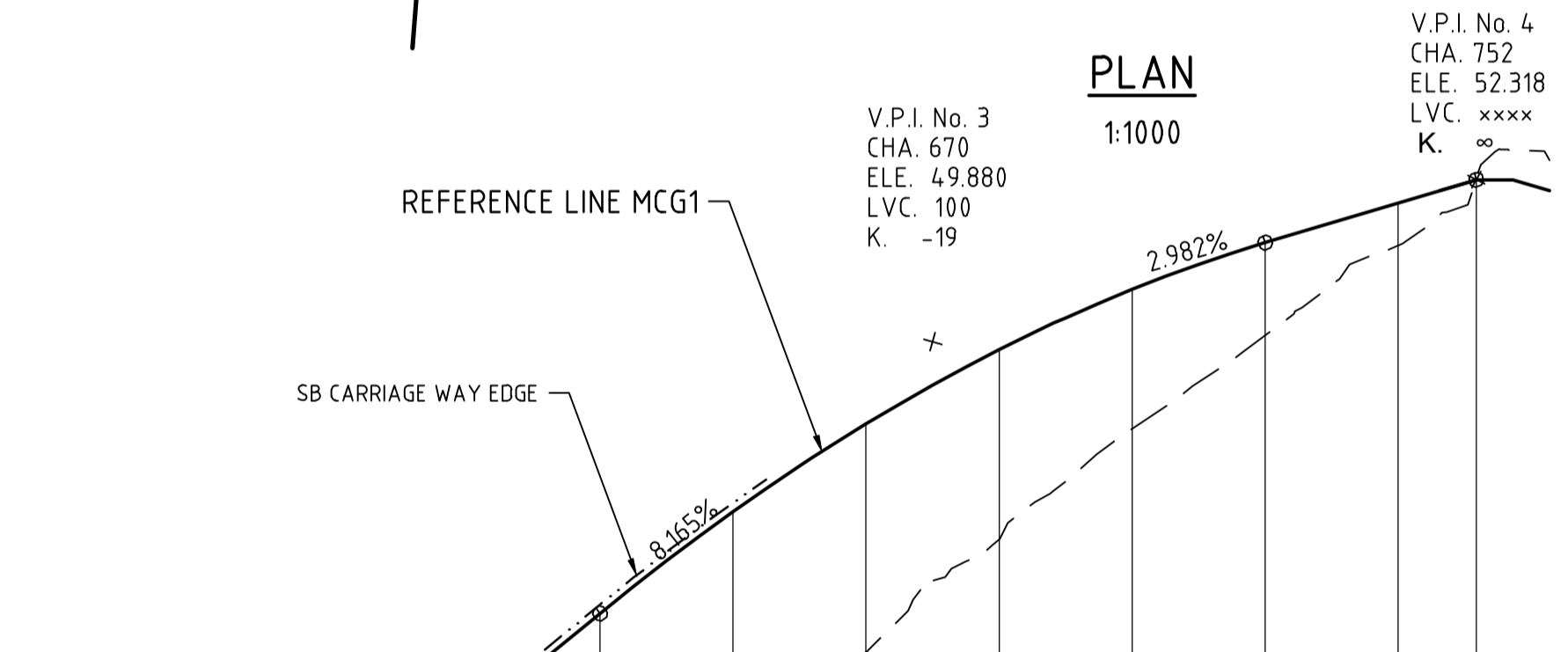
PROFILE
H 1:1000 V 1:100

DATUM=44.00	
DESIGN TO GROUND LEVEL DIFFERENCE	0.21
DESIGN LEVEL	4.6114
GROUND LEVEL	4.590
CHAINAGE ON MCA1	2800
HORIZONTAL GEOMETRY	D=209.59
VERTICAL GEOMETRY	P=0.16% L=80.72
CROSSFALL	E=3.0%



PROFILE
H 1:1000 V 1:100

DATUM=56.00	
DESIGN TO GROUND LEVEL DIFFERENCE	4.31
DESIGN LEVEL	61.863
GROUND LEVEL	57.55
CHAINAGE ON Mco0	900
HORIZONTAL GEOMETRY	R=1203.00 L=14.122
VERTICAL GEOMETRY	K=-230.36 L=120.00
CROSSFALL	E=3.0%



PROFILE
H 1:1000 V 1:100

DATUM=39.00	
DESIGN TO GROUND LEVEL DIFFERENCE	3.72
DESIGN LEVEL	44.165
GROUND LEVEL	40.44
CHAINAGE ON MCG1	600
HORIZONTAL GEOMETRY	R=350.00 L=119.21
VERTICAL GEOMETRY	P=8.16% L=190.00
CROSSFALL	E=3.0%

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES
1. ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
2. DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
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METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

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VERIFIED	
DIRECTOR	

mainroads WESTERN AUSTRALIA
REGIONAL SERVICES DIRECTORATE
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2-6 Kelly Street ALBANY 6330
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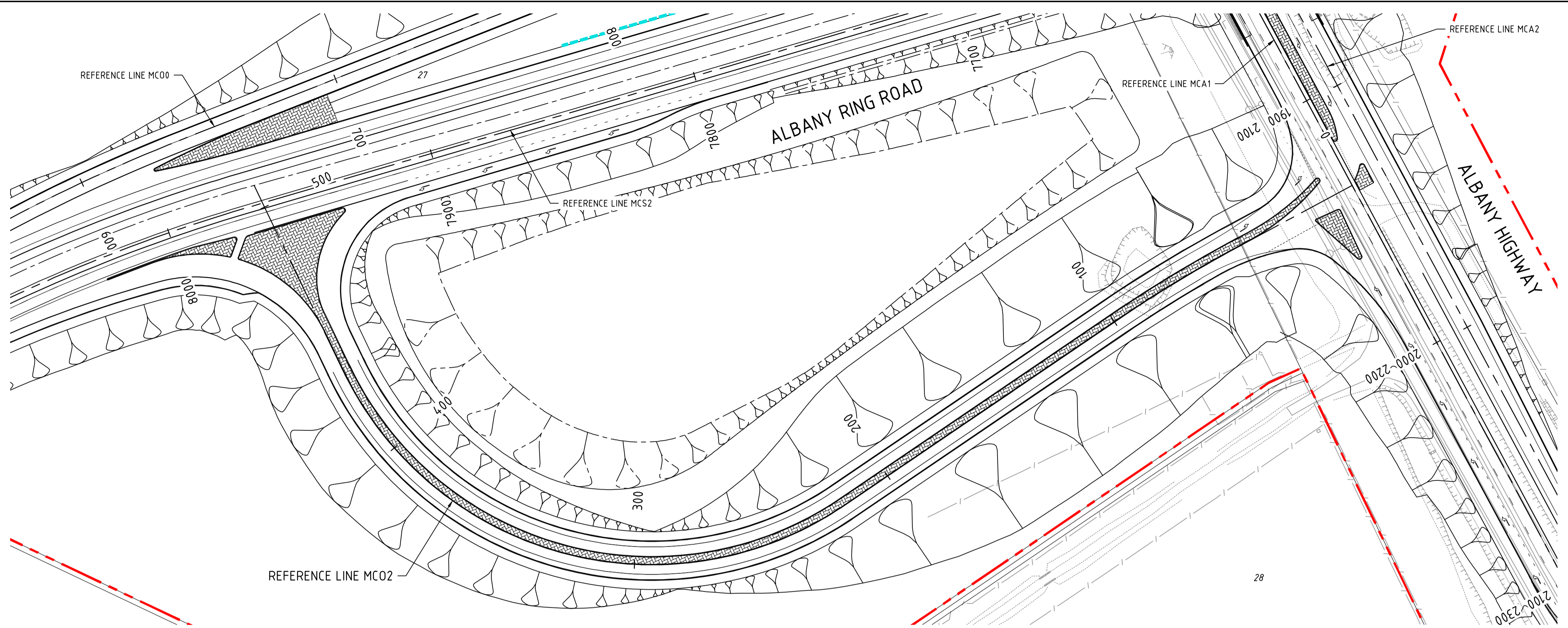
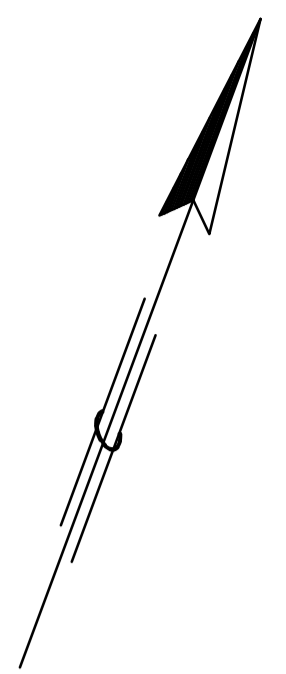
MRWA FILE NUMBER
APPROVED (MRWA)

ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCA1,MCO0,MCG1

LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0354-B

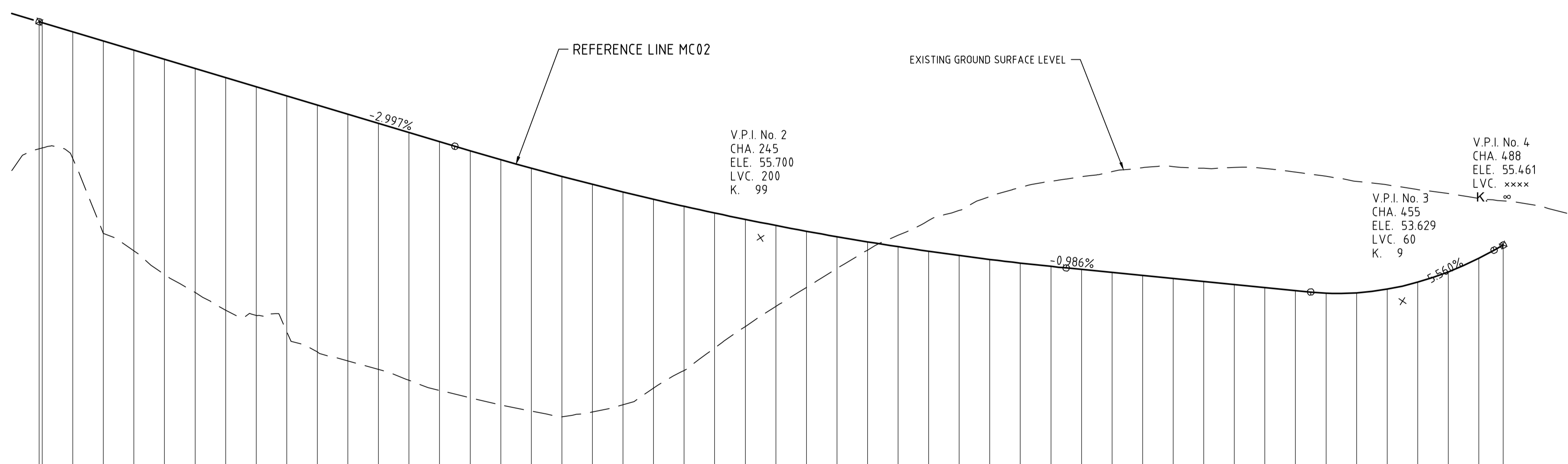
PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE A 1



PLAN
1:1000

V.P.I. No. 1
CHA. 9
ELE. 62.772
LVC. xxxx
K. ∞



PROFILE
H 1:1000 V 1:100

DESIGN TO GROUND LEVEL DIFFERENCE	DESIGN LEVEL	GROUND LEVEL	CHAINAGE ON Mco2	HORIZONTAL GEOMETRY	VERTICAL GEOMETRY	CROSSFALL
4.10	62.742	57.90	0	D=4.765	P=-3.00% L=136.00	
4.15	62.442	58.64	10			
6.30	62.143	58.29	20	R=500.00 L=156		
6.57	61.843	55.84	30			
7.04	61.543	55.27	40	D=119.87		
7.33	61.244	54.50	50			
7.62	60.944	53.91	60	R=125.00 L=214.89	K=99.48 L=200.00	
7.48	60.644	53.33	70			
7.72	60.345	53.16	80	D=74.82	K=9.17 L=60.00	
8.08	60.045	53.16	90			
8.08	59.745	52.63	100			
8.05	59.446	51.96	110			
8.11	59.146	51.67	120			
8.14	58.846	51.39	130			
8.08	58.546	51.04	140			
8.03	58.258	50.71	150			
7.95	57.979	50.47	160			
7.87	57.709	50.23	170			
7.45	57.450	50.03	180			
6.96	57.201	49.84	190			
6.18	56.961	50.00	200			
5.37	56.732	50.24	210			
4.41	56.513	50.78	220			
3.51	56.303	51.36	230			
2.65	56.104	52.10	240			
1.84	55.915	52.80	250			
1.04	55.736	53.45	260			
0.27	55.567	54.08	270			
-0.37	55.408	54.70	280			
-1.01	55.259	55.30	290			
-1.47	55.121	55.78	300			
-2.06	54.992	56.27	310			
-2.48	54.873	56.59	320			
-2.78	54.764	57.05	330			
-3.03	54.664	57.35	340			
-3.30	54.566	57.55	350			
-3.53	54.467	57.70	360			
-3.66	54.369	57.87	370			
-3.70	54.270	58.00	380			
-3.83	54.171	58.03	390			
-3.90	54.073	57.97	400			
-3.88	53.974	58.01	410			
-3.82	53.889	57.85	420			
-3.65	53.900	57.71	430			
-3.41	54.019	57.55	440			
-3.03	54.248	57.43	450			
-2.57	54.586	57.28	460			
-1.95	55.033	57.15	470			
-999.008	-999.008	56.99	480			
-999.008	-999.008	56.89	490			
-999.000	-999.000	56.74	500			
-999.000	-999.000	56.50	509			

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
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METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

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DRAWING NUMBER/DOCUMENT ID:	G:\61\37157\CADD\Drawings
DESIGNED / DRAWN	V. SINAGRA / E. HARRIS
VERIFIED	
DIRECTOR	

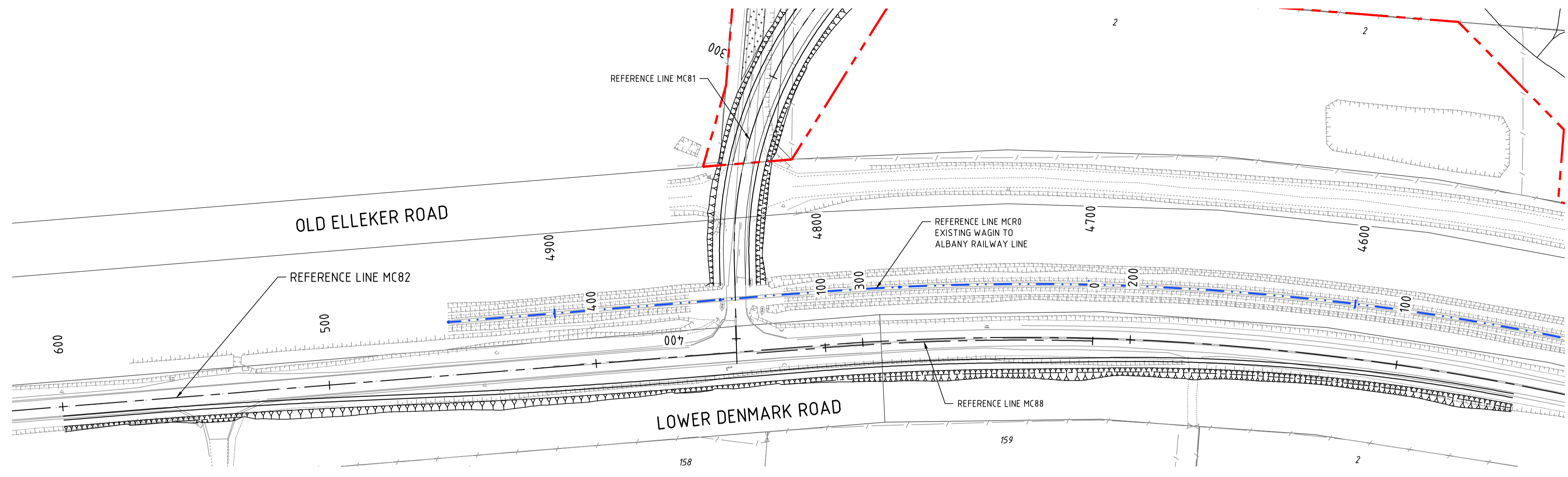
mainroads WESTERN AUSTRALIA
REGIONAL SERVICES DIRECTORATE
GREAT SOUTHERN REGION
2-6 Kelly Street Telephone (08) 9892 0555 ALBANY 6330 Fax (08) 9892 0577

MRWA FILE NUMBER
APPROVED (MRWA)
ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCO2
CHA. 0 TO CHA. 509

LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0355-B

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALES
A 1



PLAN
1:1000

PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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LEGEND

	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
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METADATA

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DATE OF CAPTURE:	VARIES
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MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

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MRWA FILE NUMBER

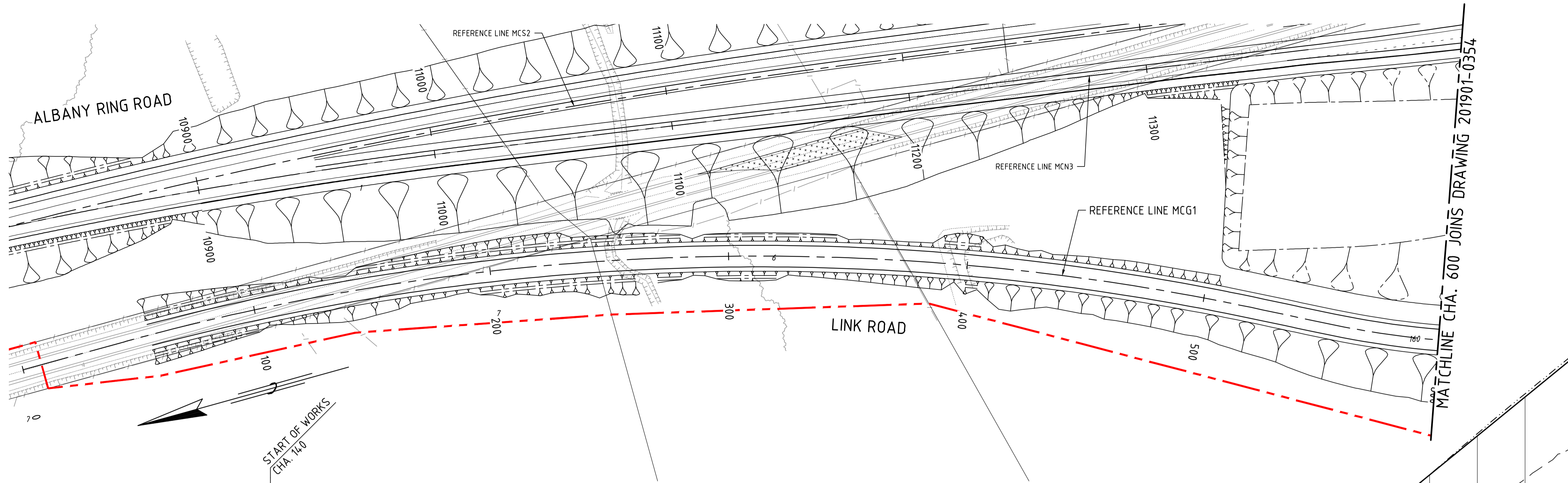
APPROVED (MRWA)

ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MC82
CHA. 55 TO CHA. 600

LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0356-B

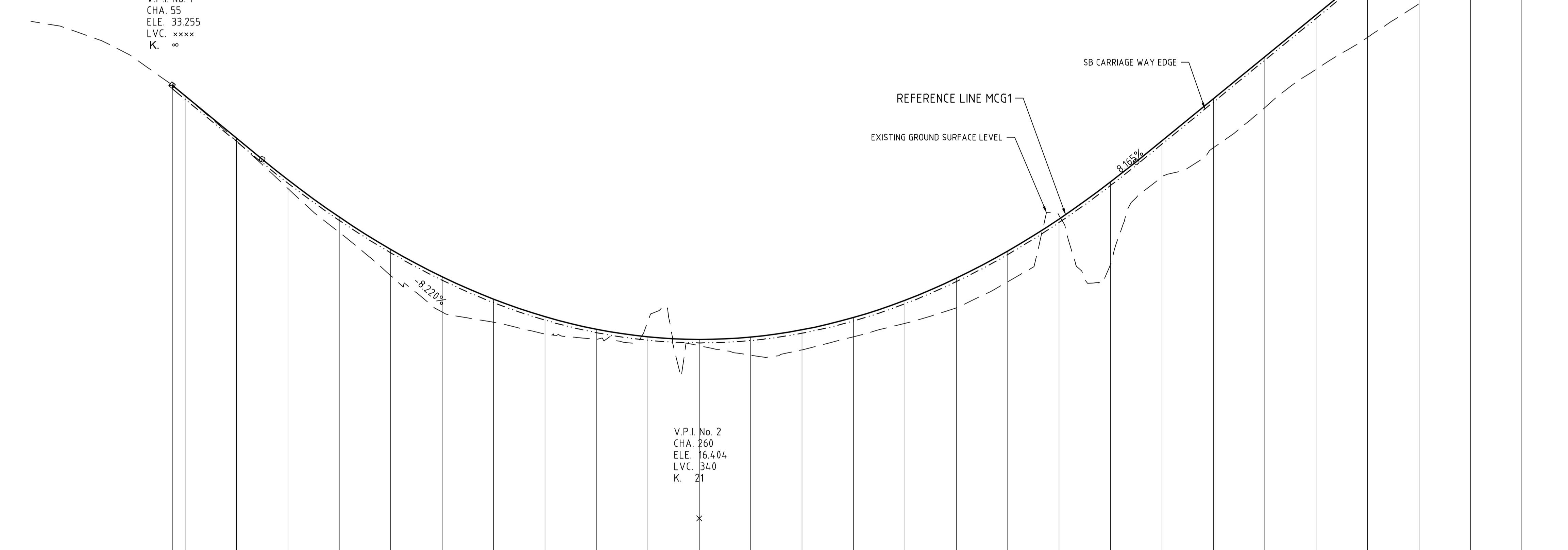
PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE



PLAN
1:1000

V.P.I. No. 1
CHA. 55
ELE. 33.255
LVC. xxxx
K. ∞



V.P.I. No. 2
CHA. 260
ELE. 16.404
LVC. 34.0
K. 21

DESIGN TO GROUND LEVEL DIFFERENCE	DESIGN LEVEL	GROUND LEVEL	CHAINAGE ON MCG1
-999.000	-999.000	35.75	0
-999.008	-999.008	35.26	20
-999.008	-999.008	34.33	40
0.01	32.844	32.83	60
0.11	31.200	31.09	80
0.34	29.580	29.24	100
0.60	28.129	27.53	120
1.02	26.870	25.85	140
1.37	25.805	24.43	160
0.89	24.932	24.04	180
0.67	24.252	23.58	200
0.39	23.764	23.37	220
-0.59	23.469	24.06	240
0.25	23.368	23.12	260
0.70	23.458	22.75	280
0.78	23.742	22.96	300
0.75	24.218	23.47	320
0.90	24.888	23.99	340
1.16	25.750	24.59	360
1.19	26.804	25.61	380
-0.13	28.052	28.18	400
3.21	29.492	26.28	420
1.41	31.101	29.69	440
1.91	32.734	30.82	460
1.98	34.367	32.38	480
2.12	36.000	33.88	500
2.51	37.633	35.12	520
2.83	39.266	36.43	540
3.15	40.899	37.75	560
3.43	42.532	39.10	580
3.72	44.165	40.44	600

PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES
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LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
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DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
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HEIGHT DATUM:	AHD

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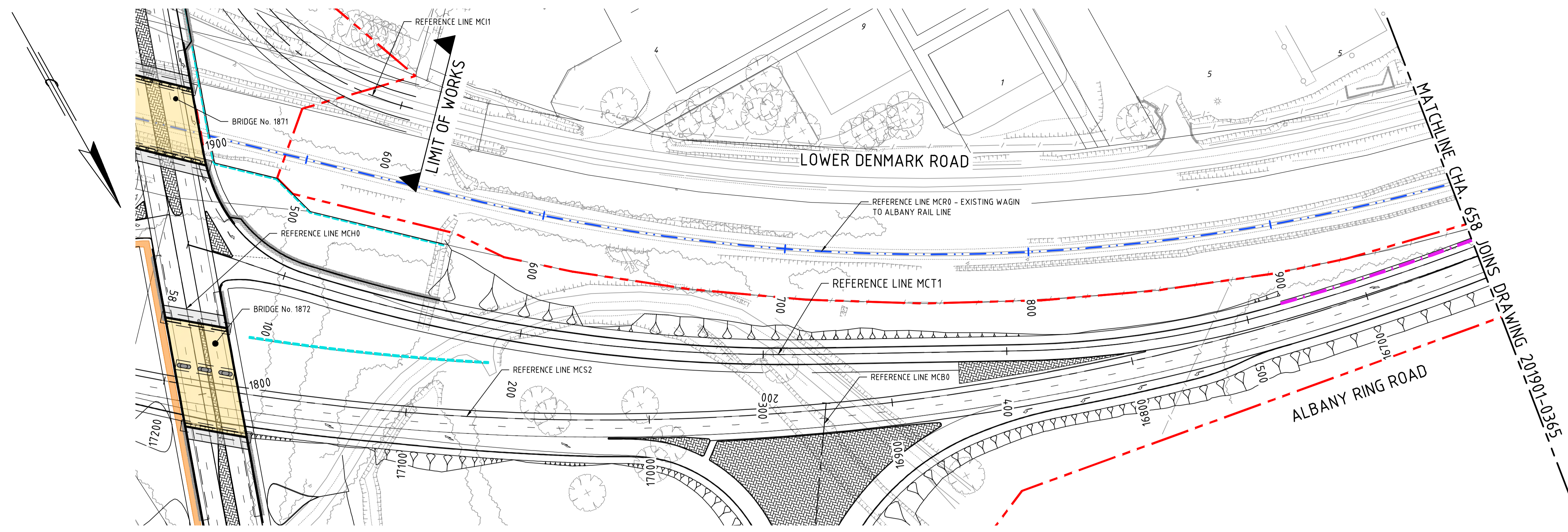
MRWA FILE NUMBER
APPROVED (MRWA)

ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCG1
CHA. 0 TO CHA. 600

LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0357-B

PRELIMINARY
DATE : 10 December 2019

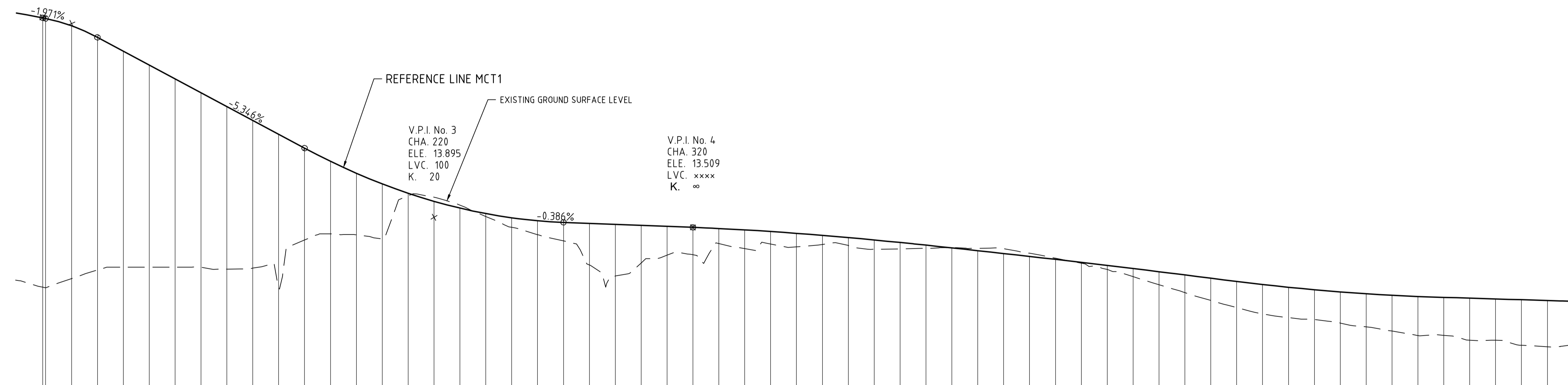
VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000

V.P.I. No. 1
CHA. 69
ELE. 21600
LVC. xxxx
K. ∞

V.P.I. No. 2
CHA. 80
ELE. 21380
LVC. 20
K. -6



PROFILE
H 1:1000 V 1:100

DESIGN TO GROUND LEVEL DIFFERENCE	DESIGN LEVEL	GROUND LEVEL	CHAINAGE ON Mct1	HORIZONTAL GEOMETRY	VERTICAL GEOMETRY	CROSSFALL
10.40	11.47	11.47	88	R=500.00 L=23.20	K=-5.93 L=20.00	
9.77	11.45	11.45	70			
8.98	11.17	11.17	80			
6.34	11.53	11.53	90			
7.80	11.86	11.86	100			
7.27	11.97	11.97	110			
6.74	11.97	11.97	120			
6.28	11.97	11.97	130			
5.70	11.90	11.90	140			
5.86	11.93	11.93	150			
3.55	11.24	11.24	160			
2.80	13.02	13.02	170			
2.37	13.25	13.25	180			
2.13	13.22	13.22	190			
0.10	13.06	13.06	200			
-0.16	14.73	14.73	210			
-0.11	14.67	14.67	220			
0.11	14.37	14.37	230			
0.37	13.93	13.93	240			
0.54	13.51	13.51	250			
0.72	13.23	13.23	260			
1.61	12.98	12.98	270			
2.00	12.06	12.06	280			
1.45	11.63	11.63	290			
1.11	12.13	12.13	300			
1.06	12.43	12.43	310			
0.59	12.45	12.45	320			
0.72	12.88	12.88	330			
0.49	12.69	12.69	340			
0.52	12.86	12.86	350			
0.35	12.76	12.76	360			
0.30	12.85	12.85	370			
0.36	12.81	12.81	380			
0.24	12.66	12.66	390			
0.12	12.68	12.68	400			
-0.00	12.70	12.70	410			
-0.09	12.72	12.72	420			
-0.19	12.70	12.70	430			
-0.12	12.69	12.69	440			
-0.04	12.51	12.51	450			
0.04	12.32	12.32	460			
0.15	12.12	12.12	470			
0.31	11.88	11.88	480			
0.50	11.61	11.61	490			
0.68	11.29	11.29	500			
0.86	10.99	10.99	510			
1.01	10.69	10.69	520			
1.14	10.41	10.41	530			
1.17	10.16	10.16	540			
1.15	10.02	10.02	550			
1.21	9.95	9.95	560			
1.28	9.81	9.81	570			
1.38	9.66	9.66	580			
1.51	9.50	9.50	590			
1.46	9.33	9.33	600			
1.62	9.34	9.34	610			
1.60	9.15	9.15	620			
1.76	9.15	9.15	630			
1.78	8.96	8.96	640			
	8.90	8.90	650			

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
SERVICES AND CADASTRAL BOUNDARY LOCATIONS SHOWN ARE ONLY INDICATIVE AND MUST NOT BE USED FOR EXCAVATION. THE "ONE CALL 1100" SYSTEM SHALL BE USED TO OBTAIN ACCURATE SERVICE LOCATIONS.

METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

GHD Level 10, 999 Hay Street Perth WA 6000
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E permail@ghd.com.au www.ghd.com.au

DRAWING NUMBER/DOCUMENT ID:	G:\61\37157\CADD\Drawings
DESIGNED / DRAWN:	V. SINAGRA / E. HARRIS
VERIFIED:	
DIRECTOR:	

mainroads WESTERN AUSTRALIA
REGIONAL SERVICES DIRECTORATE
GREAT SOUTHERN REGION
2-6 Kelly Street Telephone (08) 9892 0555 ALBANY 6330 Fax (08) 9892 0577

MRWA FILE NUMBER
APPROVED (MRWA)
ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCT1
CHA. 58 TO CHA. 658

LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0358-B

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DRAWING TO BE PRINTED IN COLOUR.

LEGEND

	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
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METADATA

GROUND SURVEY STANDARD: 67-08-43
 DATE OF CAPTURE: VARIES
 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
 MAIN ROADS PROJECT ZONE: ALB 94
 HEIGHT DATUM: AHD

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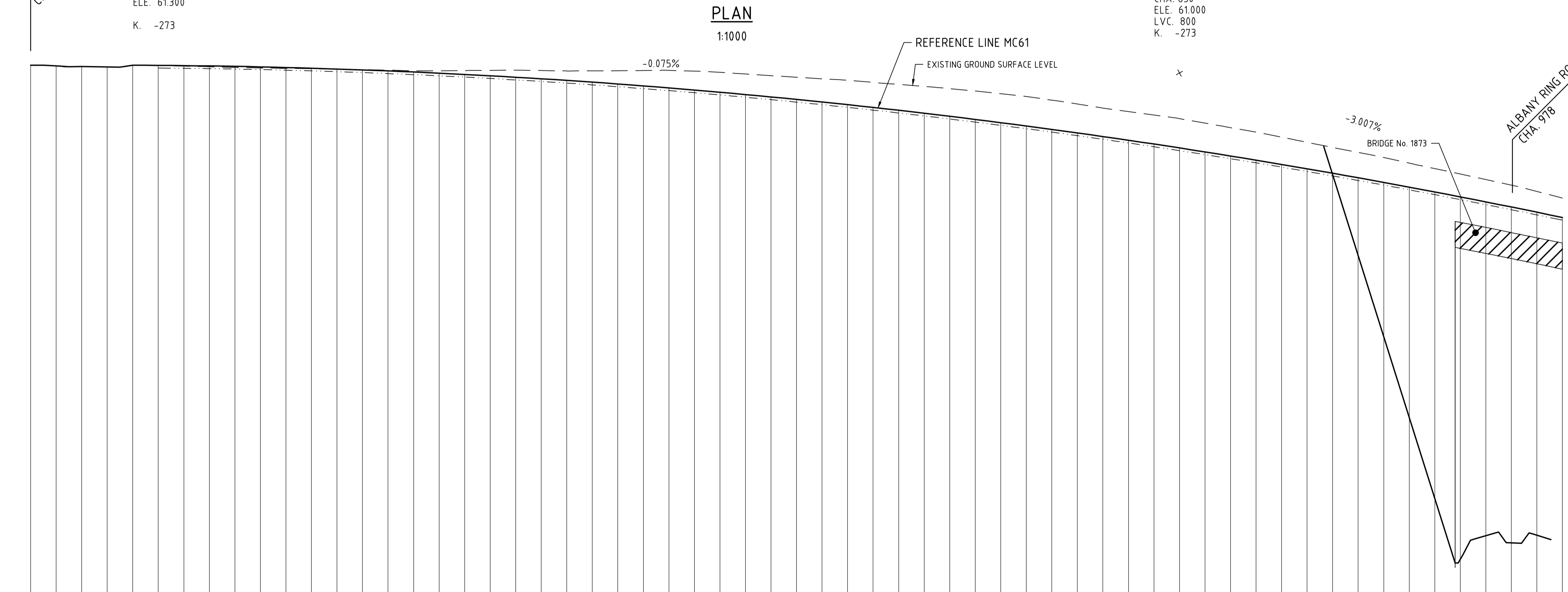
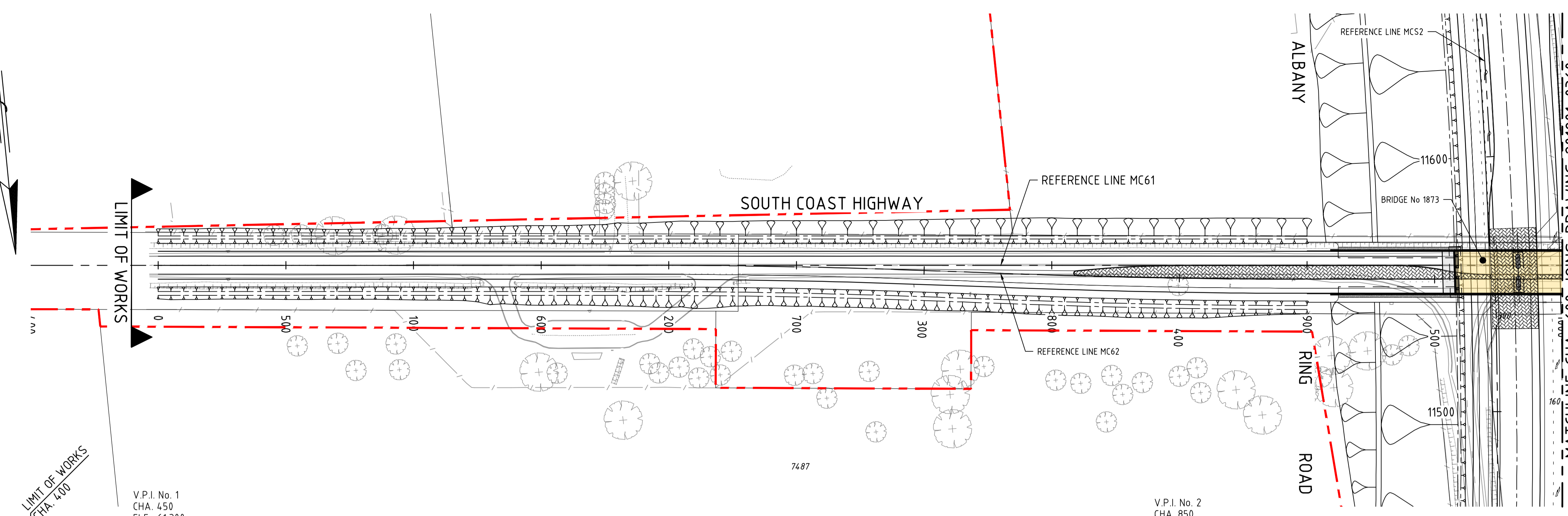
DRAWING NUMBER/DOCUMENT ID: G:\61\371571\CADD\Drawings
 DESIGNED / DRAWN: V. SINAGRA / E. HARRIS
 VERIFIED:
 DIRECTOR:

mainroads WESTERN AUSTRALIA
 REGIONAL SERVICES DIRECTORATE
 GREAT SOUTHERN REGION
 2-6 Kelly Street Telephone (08) 9892 0555 ALBANY 6330 Fax (08) 9892 0577

MRWA FILE NUMBER
 APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
 PLAN AND PROFILE - MC61
 CHA. 400 TO CHA. 1000

LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0359-B



	400	420	440	460	480	500	520	540	560	580	600	620	640	660	680	700	720	740	760	780	800	820	840	860	880	900	920	940	960	980	1000	
DESIGN TO GROUND LEVEL DIFFERENCE	0.00	-0.00	-0.00	-0.02	-0.04	-0.03	-0.01	-0.03	-0.09	-0.21	-0.32	-0.44	-0.60	-0.74	-0.80	-0.86	-0.95	-1.01	-1.08	-1.13	-1.15	-1.12	-1.13	-1.13	-1.09	-1.03	-0.99	-0.94	-0.90	-0.86	-0.76	
DESIGN LEVEL	61.304	61.253	61.303	61.291	61.261	61.217	61.158	61.084	60.996	60.893	60.775	60.643	60.496	60.334	60.158	59.967	59.762	59.542	59.307	59.057	58.793	58.514	58.221	57.913	57.590	57.252	56.900	56.533	56.152	55.756	55.345	
GROUND LEVEL	61.30	61.25	61.30	61.27	61.22	61.18	61.15	61.11	61.09	61.11	61.10	61.09	61.10	61.07	60.96	60.83	60.71	60.55	60.39	60.19	59.94	59.63	59.35	59.04	58.68	58.29	57.89	57.47	57.05	56.61	56.10	
CHAINAGE ON Mc61	400	420	440	460	480	500	520	540	560	580	600	620	640	660	680	700	720	740	760	780	800	820	840	860	880	900	920	940	960	980	1000	
HORIZONTAL GEOMETRY	D=1727.90																															
VERTICAL GEOMETRY	K=-272.90 L=800.00																															
CROSSFALL																																

PROFILE
 H 1:1000 V 1:100

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100
 HORIZ. 1:1000
 SCALES
 A 1

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

- NOTES**
- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
 - DRAWING TO BE PRINTED IN COLOUR.

LEGEND

	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
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METADATA

GROUND SURVEY STANDARD: 67-08-43
 DATE OF CAPTURE: VARIES
 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
 MAIN ROADS PROJECT ZONE: ALB 94
 HEIGHT DATUM: AHD

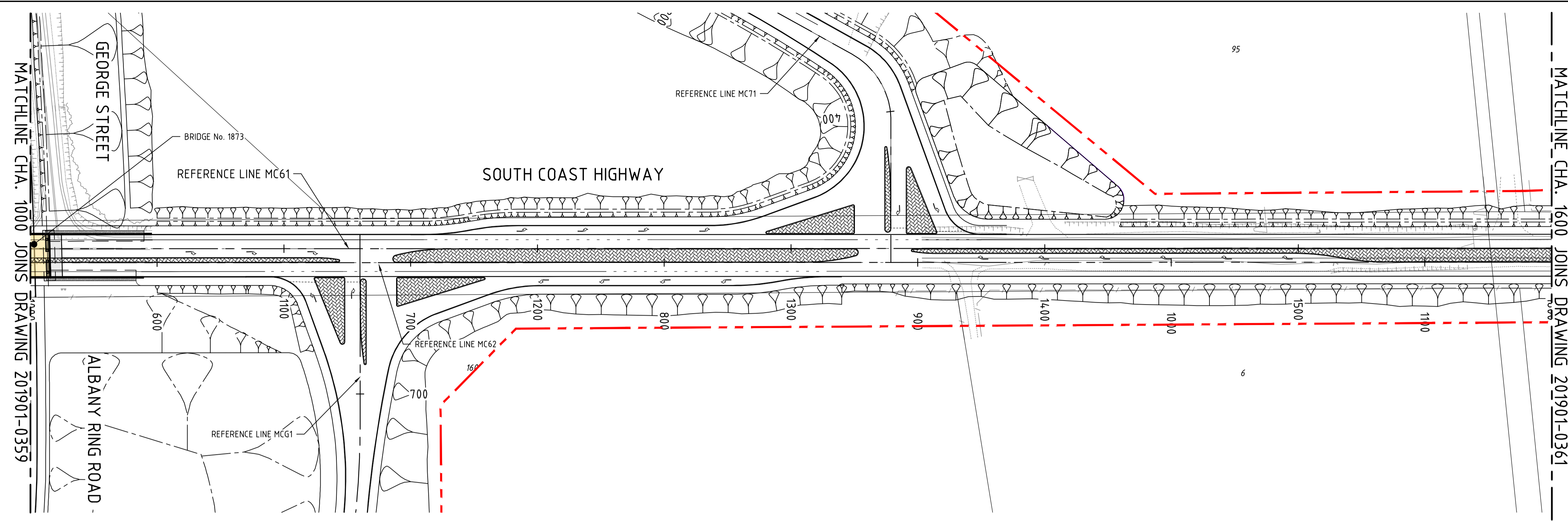
GHD Level 10, 999 Hay Street Perth WA 6000
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 E permail@ghd.com.au www.ghd.com.au

DRAWING NUMBER/DOCUMENT ID: G:\61\37157\CADD\Drawings
 DESIGNED / DRAWN: V. SINAGRA / E. HARRIS
 VERIFIED:
 DIRECTOR:

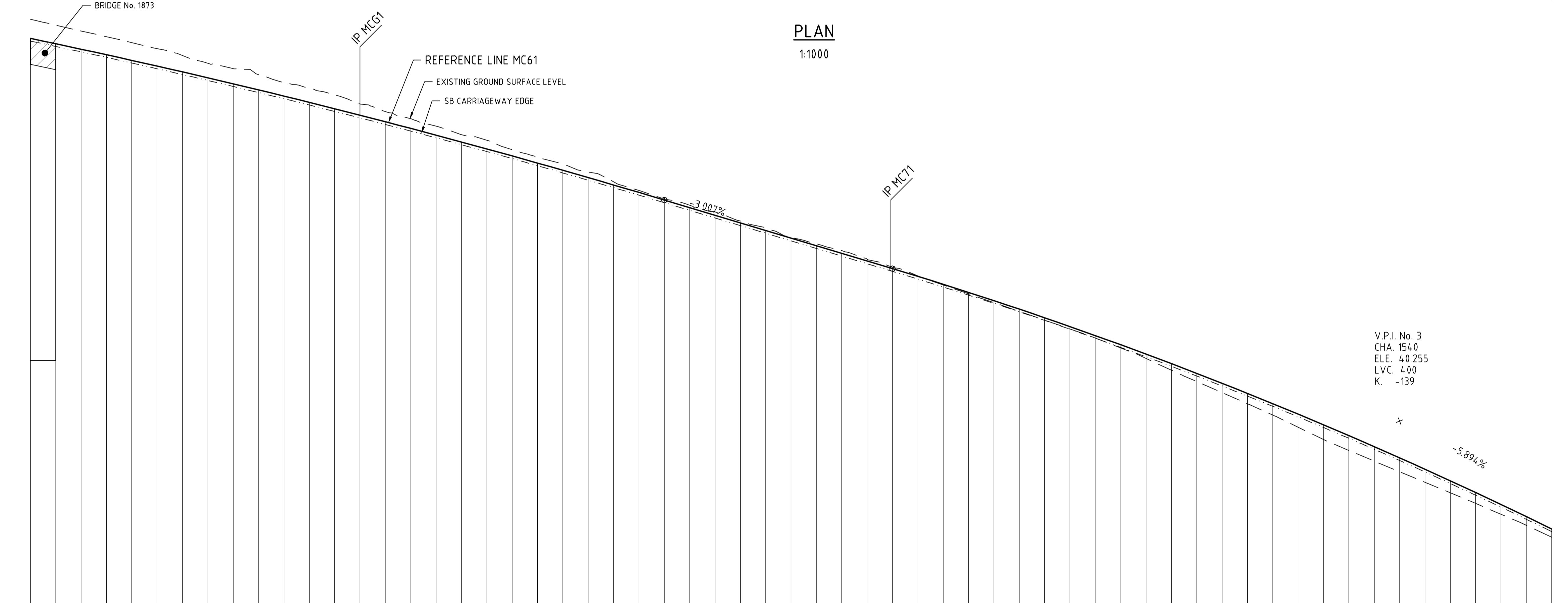
mainroads WESTERN AUSTRALIA
 REGIONAL SERVICES DIRECTORATE
 GREAT SOUTHERN REGION
 2-6 Kelly Street Telephone (08) 9892 0555 ALBANY 6330 Fax (08) 9892 0577

MRWA FILE NUMBER
 APPROVED (MRWA)
ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MC61
 CHA. 1000 TO CHA. 1600

LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0360-B



PLAN
1:1000

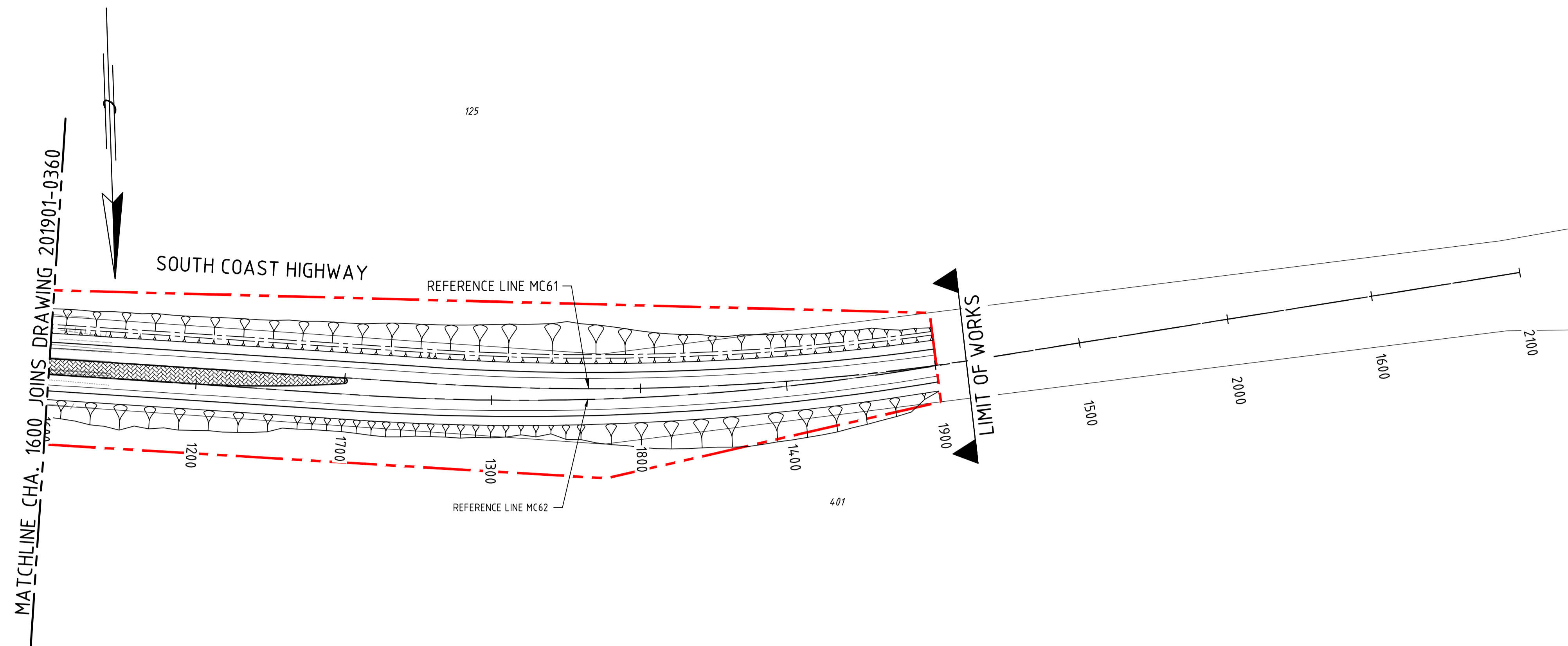


PROFILE
H 1:1000 V 1:100

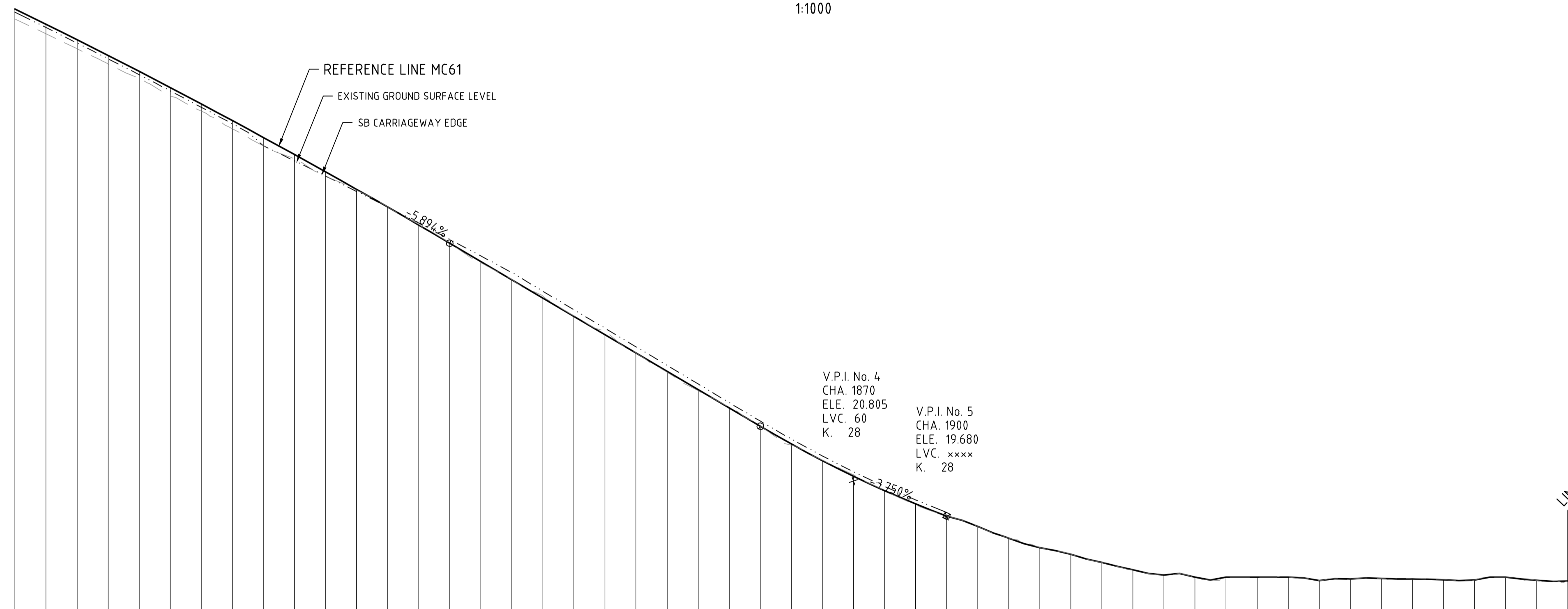
	1000	1020	1040	1060	1080	1100	1120	1140	1160	1180	1200	1220	1240	1260	1280	1300	1320	1340	1360	1380	1400	1420	1440	1460	1480	1500	1520	1540	1560	1580	1600																	
DESIGN TO GROUND LEVEL DIFFERENCE	-0.76	-0.72	-0.70	-0.65	-0.60	-0.55	-0.55	-0.40	-0.35	-0.34	-0.22	-0.22	-0.08	-0.10	-0.08	-0.03	-0.11	-0.05	-0.03	-0.08	-0.10	-0.10	-0.17	-0.32	-0.41	-0.51	-0.58	-0.55	-0.47	-0.38	-0.32																	
DESIGN LEVEL	55.345	54.920	54.480	54.025	53.555	53.071	52.573	52.059	51.531	50.989	50.431	49.859	49.273	48.673	48.072	47.471	46.869	46.268	45.652	45.008	44.334	43.632	42.901	42.140	41.351	40.534	39.687	38.811	37.907	36.973	36.011																	
GROUND LEVEL	56.10	55.64	55.18	54.67	54.15	53.62	53.12	52.46	51.89	51.33	50.65	50.08	49.35	48.77	48.15	47.51	46.98	46.32	45.62	44.93	44.24	43.54	42.73	41.82	40.94	40.02	39.10	38.26	37.43	36.59	35.69																	
CHAINAGE ON Mc61	1000	1020	1040	1060	1080	1100	1120	1140	1160	1180	1200	1220	1240	1260	1280	1300	1320	1340	1360	1380	1400	1420	1440	1460	1480	1500	1520	1540	1560	1580	1600																	
HORIZONTAL GEOMETRY	D=1727.90																																															
VERTICAL GEOMETRY	K=-272.90 L=800.00																P=-3.01% L=90.00																K=-138.53 L=400.00															
CROSSFALL																																																

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

CHAINAGE ON Mc61	1600	1620	1640	1660	1680	1700	1720	1740	1760	1780	1800	1820	1840	1860	1880	1900	1920	1940	1960	1980	2000	2020	2040	2060	2080	2100
DESIGN TO GROUND LEVEL DIFFERENCE	0.32	0.29	-0.23	-0.23	-0.27	-0.12	-0.01	-0.00	-0.01	-0.02	-0.00	-0.03	-0.00	-0.01	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
DESIGN LEVEL	36.011	35.020	34.000	32.951	31.874	30.767	29.631	28.467	27.288	26.110	24.931	23.752	22.573	21.466	20.501	19.680	18.966	18.449	17.946	17.708	17.713	17.602	17.665	17.628	17.711	17.580
GROUND LEVEL	35.69	34.73	33.77	32.72	31.60	30.64	29.64	28.47	27.30	26.13	24.93	23.72	22.58	21.48	20.50	19.68	18.97	18.45	17.95	17.71	17.71	17.60	17.67	17.63	17.71	17.58

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
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METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

Level 10, 999 Hay Street Perth WA 6000
PO Box Y3106 Perth WA 6832 Australia
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DRAWING NUMBER / DOCUMENT ID: G:\61\371571\CADD\Drawings

DESIGNED / DRAWN: V. SINAGRA / E. HARRIS

VERIFIED:

DIRECTOR:

REGIONAL SERVICES DIRECTORATE
GREAT SOUTHERN REGION

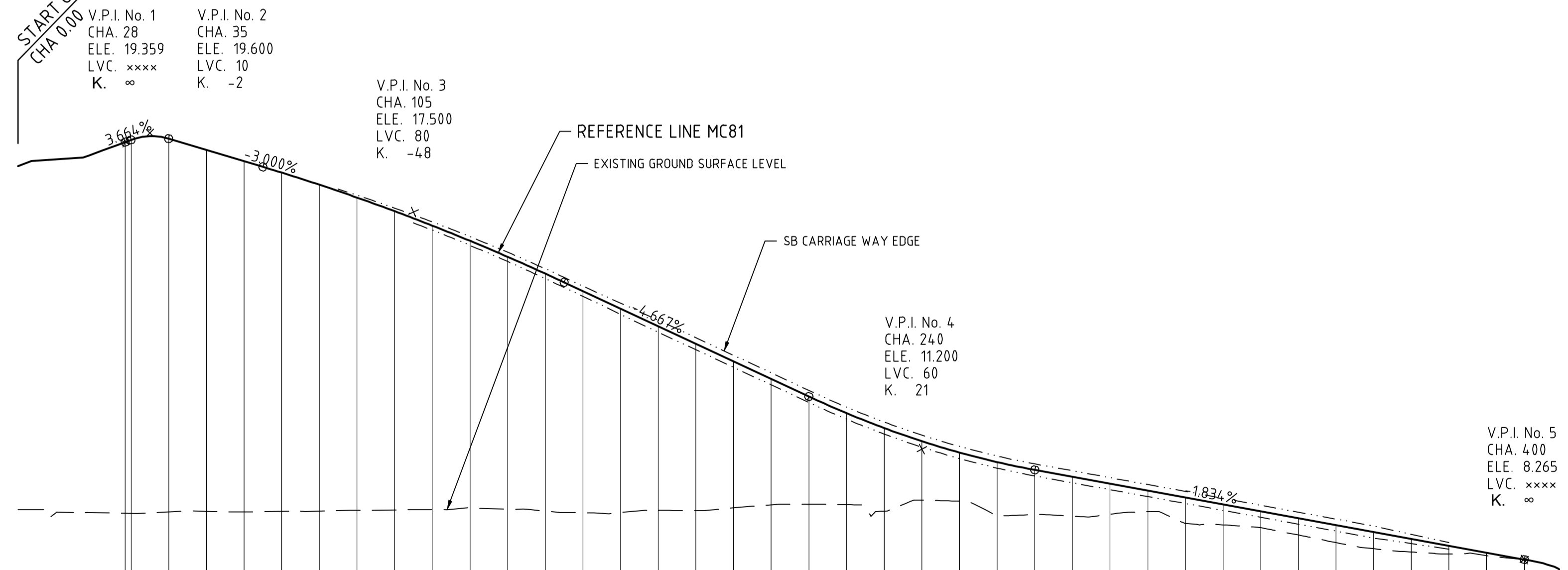
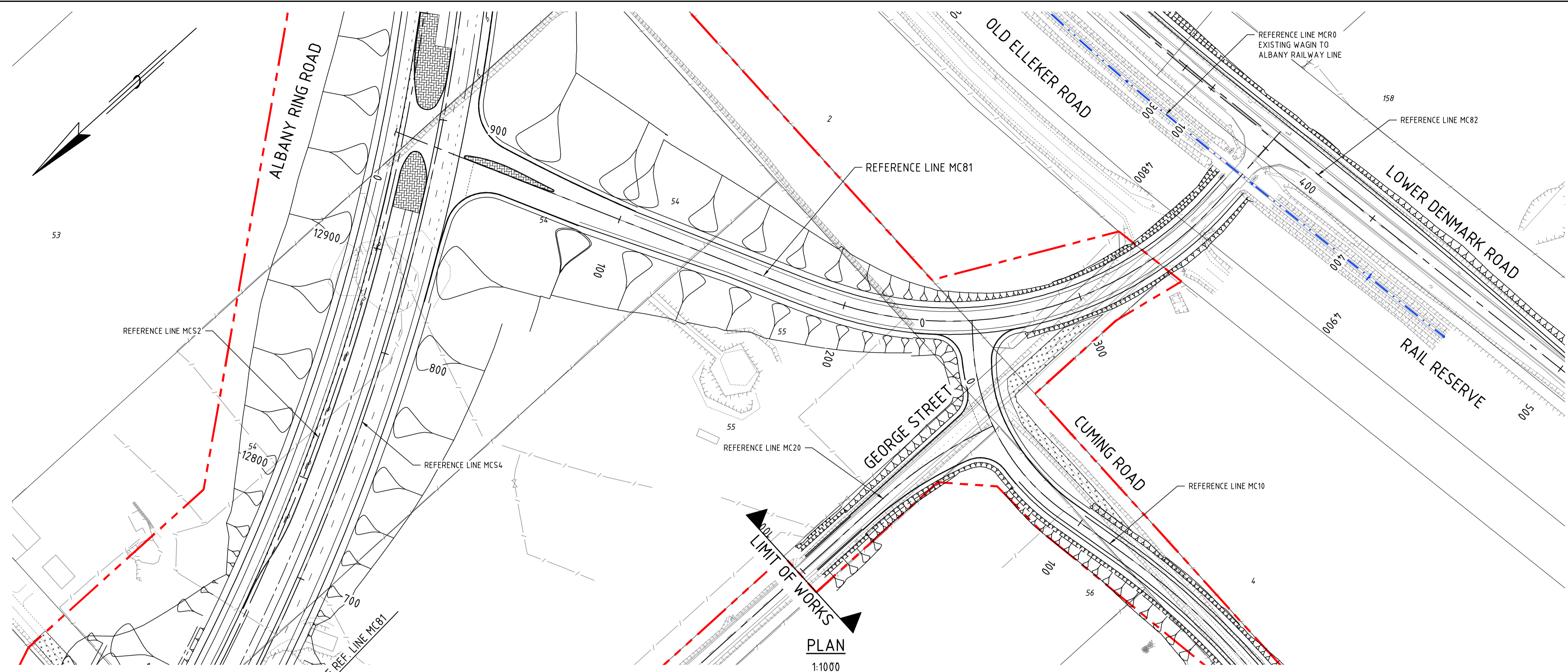
2-6 Kelly Street ALBANY 6330
Telephone (08) 9892 0555 Fax (08) 9892 0577

MRWA FILE NUMBER

APPROVED (MRWA)

ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MC61
CHA. 1600 TO CHA. 2100

VERT. 1:100
HORIZ. 1:1000
SCALE A 1



DATUM=7.00

DESIGN TO GROUND LEVEL DIFFERENCE	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	409	
DESIGN LEVEL	-999.000	-999.000	19.450	18.850	18.227	17.522	16.735	15.864	14.933	14.000	13.067	12.157	11.412	10.857	10.466	10.099	9.732	9.366	8.999	8.632	8.265	8.010	
GROUND LEVEL	9.59	9.51	9.53	9.53	9.55	9.59	9.64	9.55	9.52	9.56	9.72	9.73	9.84	9.44	9.42	9.54	9.19	8.92	8.55	8.41	8.27	8.01	
CHAINAGE ON MC81	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	409	
HORIZONTAL GEOMETRY	D=168.33										CL=40.00		R=-150.00 L=162.30						D=38.66				
VERTICAL GEOMETRY	L=25.00 P=-3.00%				K=-48.00 L=80.00				P=-6.67% L=65.00				K=21.18 L=60.00				P=-1.83% L=130.00						
CROSSFALL																							

PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DRAWING TO BE PRINTED IN COLOUR.

LEGEND

	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
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METADATA

GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

GHD Level 10, 999 Hay Street Perth WA 6000
PO Box Y3106 Perth WA 6832 Australia
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E permail@ghd.com.au www.ghd.com.au

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VERIFIED:	
DIRECTOR:	

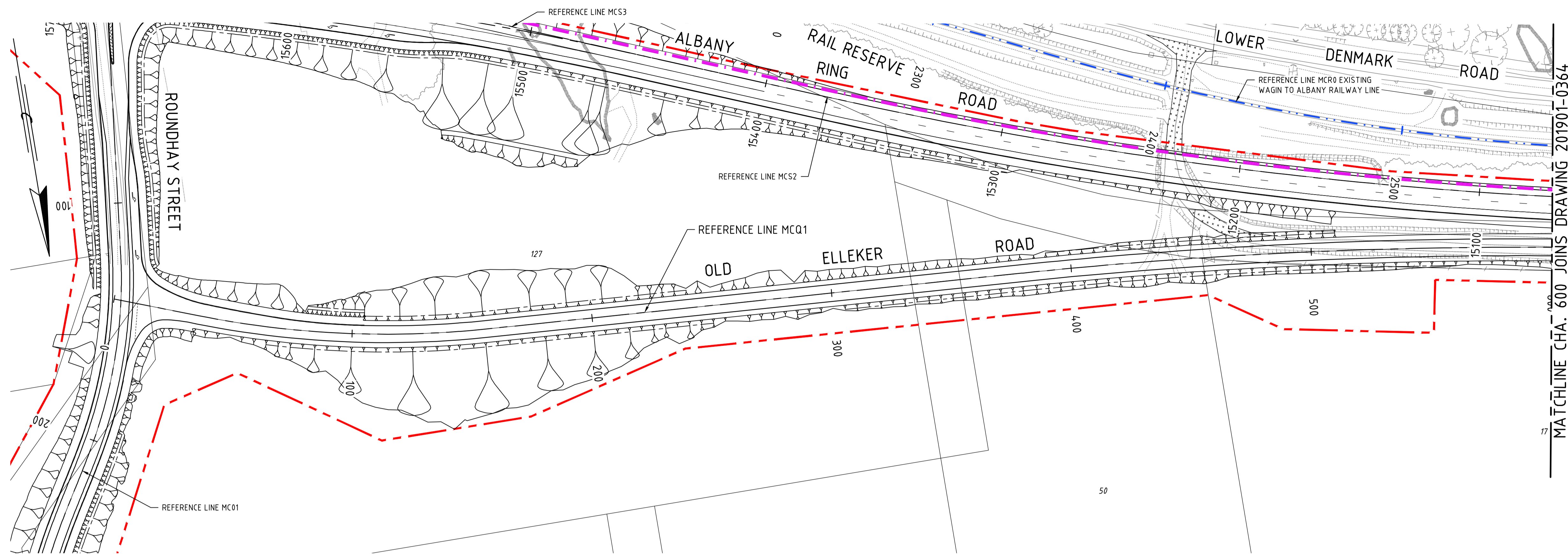
mainroads
WESTERN AUSTRALIA
REGIONAL SERVICES DIRECTORATE
GREAT SOUTHERN REGION
2-6 Kelly Street ALBANY 6330
Telephone (08) 9892 0555 Fax (08) 9892 0577

MRWA FILE NUMBER
APPROVED (MRWA)
ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MC81
CHA. 0 TO CHA. 409

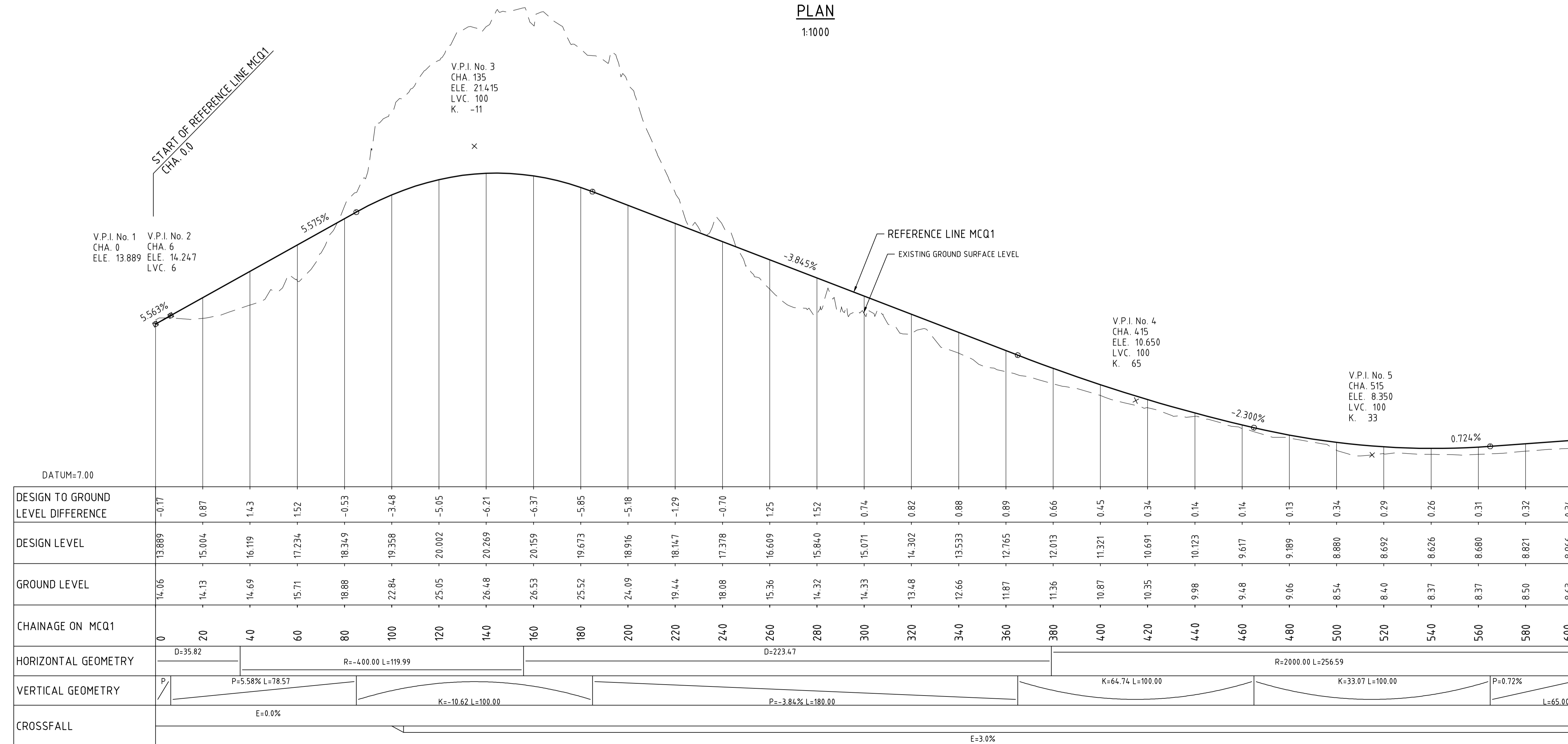
LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0362-B

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALES
A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DRAWING TO BE PRINTED IN COLOUR.

LEGEND

	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
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METADATA

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 DATE OF CAPTURE: VARIES
 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
 MAIN ROADS PROJECT ZONE: ALB 94
 HEIGHT DATUM: AHD

GHD Level 10, 999 Hay Street Perth WA 6000
 PO Box Y3106 Perth WA 6832 Australia
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DRAWING NUMBER/DOCUMENT ID: G:\61\371571\CADD\Drawings
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mainroads WESTERN AUSTRALIA
 REGIONAL SERVICES DIRECTORATE
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 2-6 Kelly Street ALBANY 6330
 Telephone (08) 9892 0555 Fax (08) 9892 0577

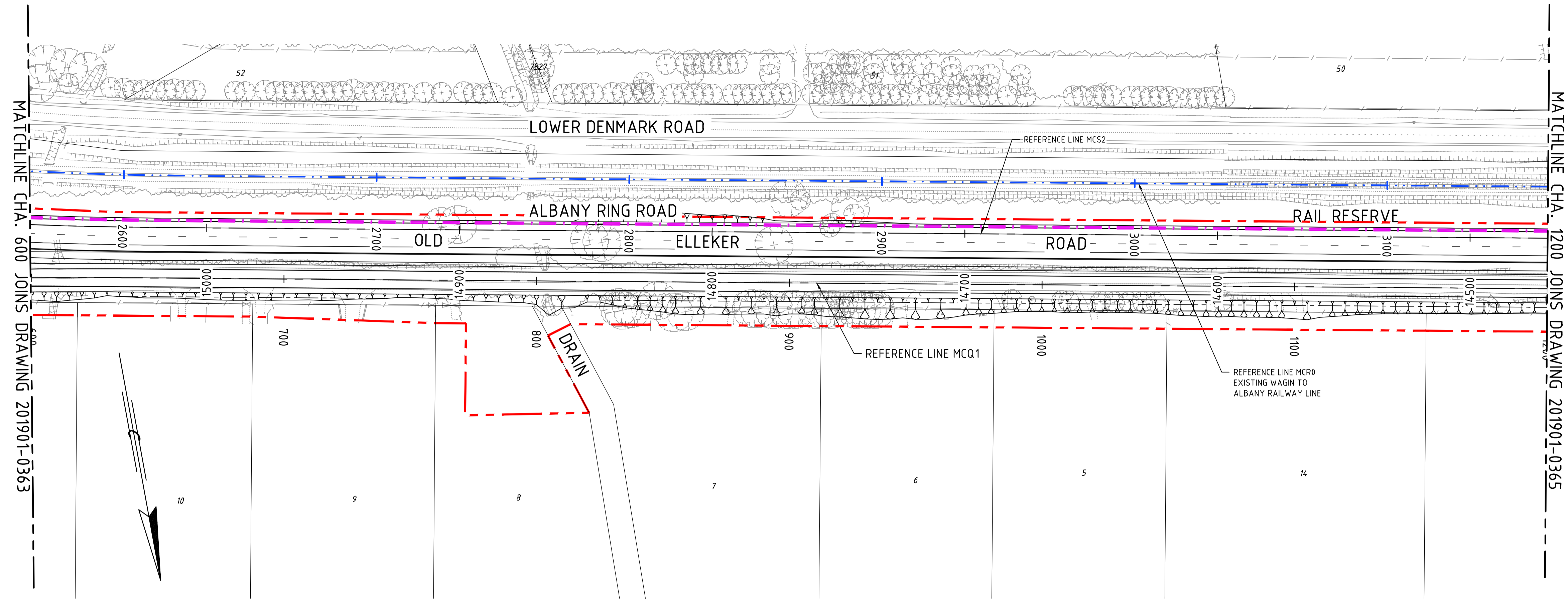
MRWA FILE NUMBER
 APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCQ1
 CHA. 0 TO CHA. 600

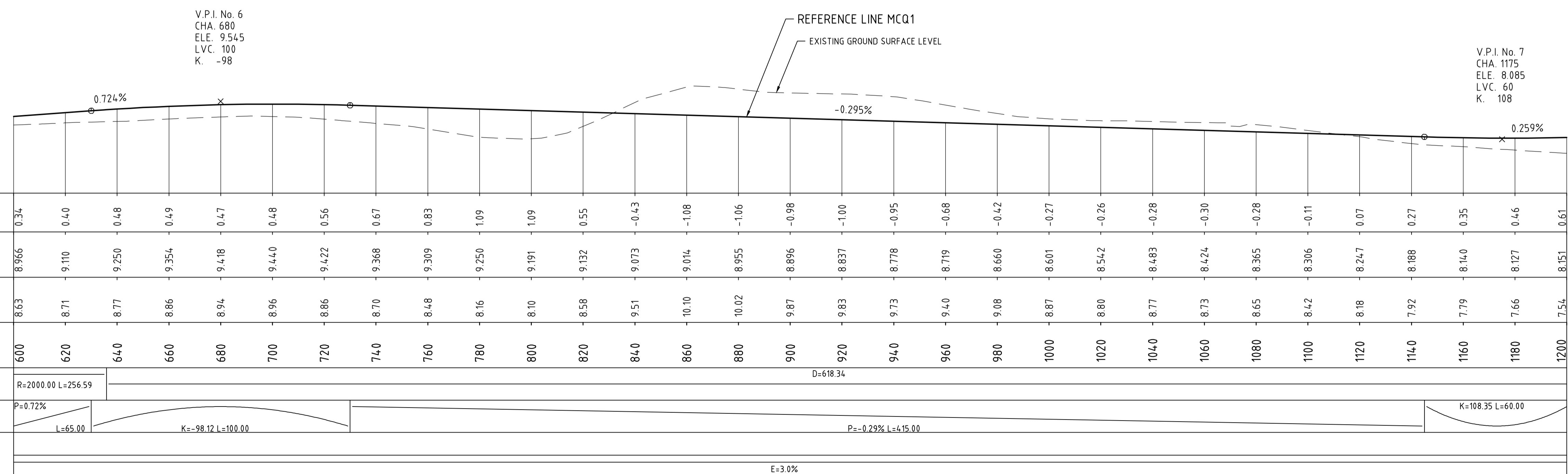
LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0363-B

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100 HORIZ. 1:1000 SCALES A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
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METADATA

GROUND SURVEY STANDARD: 67-08-43
 DATE OF CAPTURE: VARIES
 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
 MAIN ROADS PROJECT ZONE: ALB 94
 HEIGHT DATUM: AHD

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 E permail@ghd.com.au www.ghd.com.au

DRAWING NUMBER/DOCUMENT ID: G:\61\37157\CADD\Drawings
 DESIGNED / DRAWN: V. SINAGRA / E. HARRIS
 VERIFIED:
 DIRECTOR:

mainroads WESTERN AUSTRALIA
 REGIONAL SERVICES DIRECTORATE
 GREAT SOUTHERN REGION
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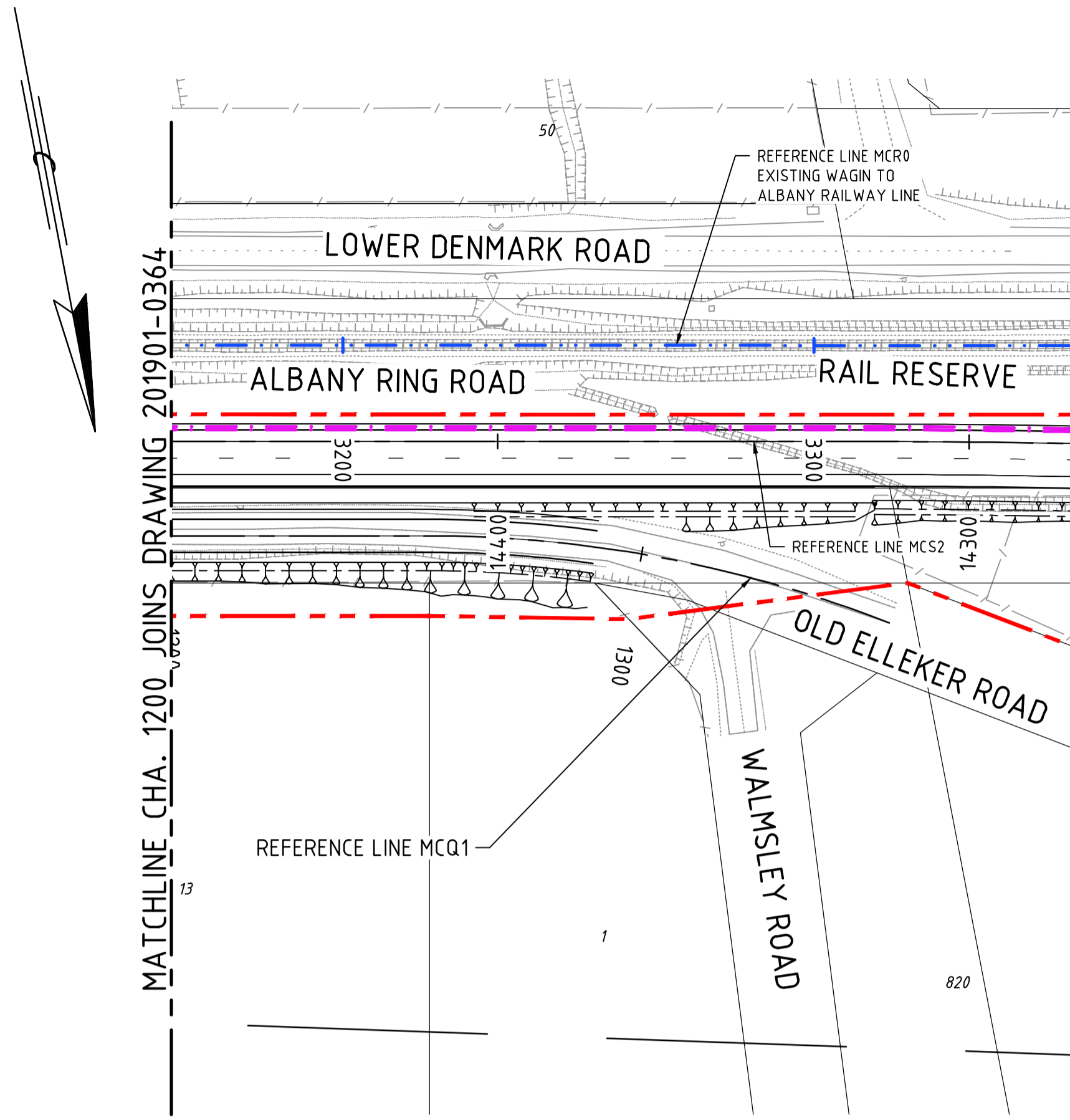
MRWA FILE NUMBER
 APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
 PLAN AND PROFILE - MCQ1
 CHA. 600 TO CHA. 1200

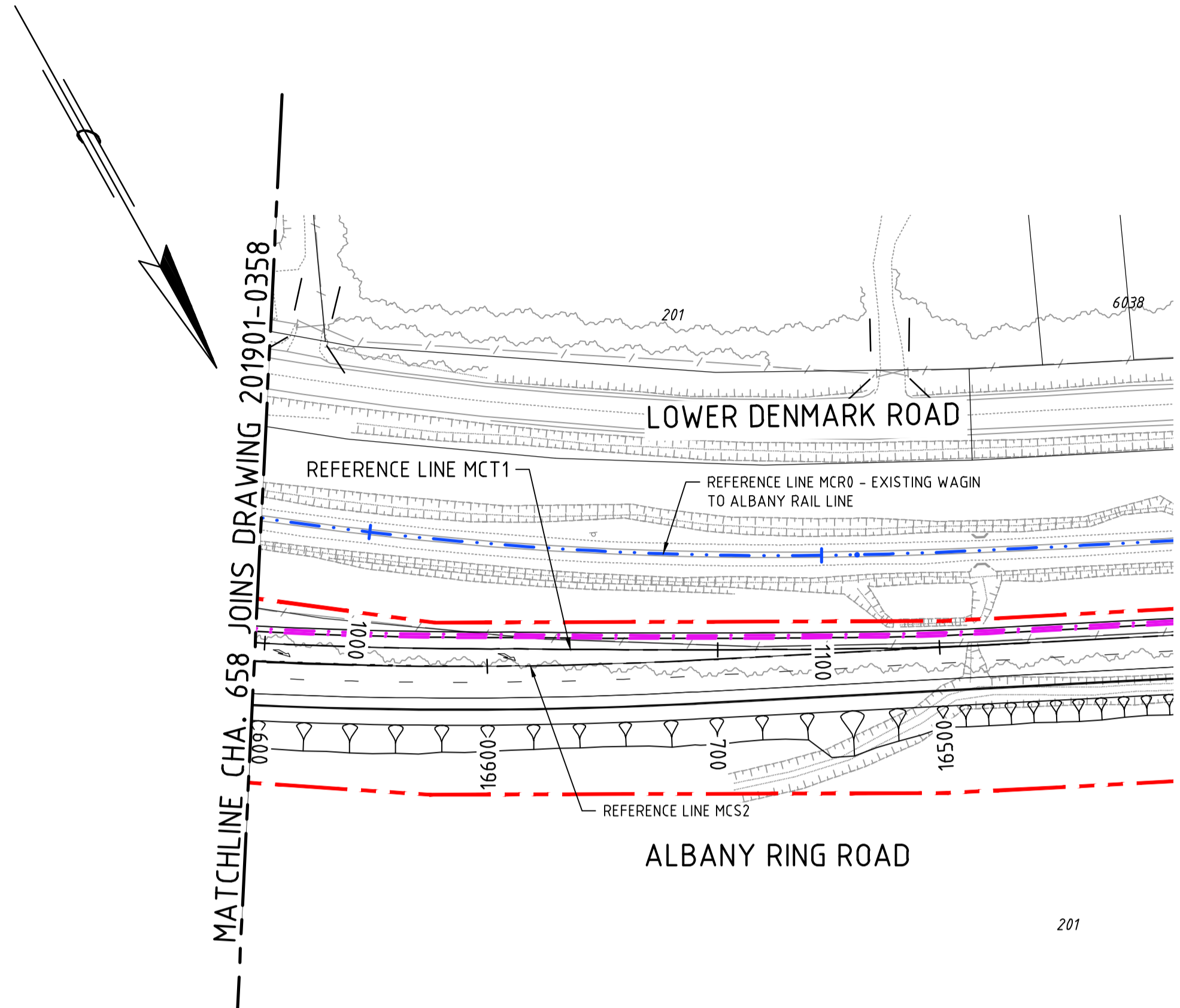
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PRELIMINARY
 DATE : 10 December 2019

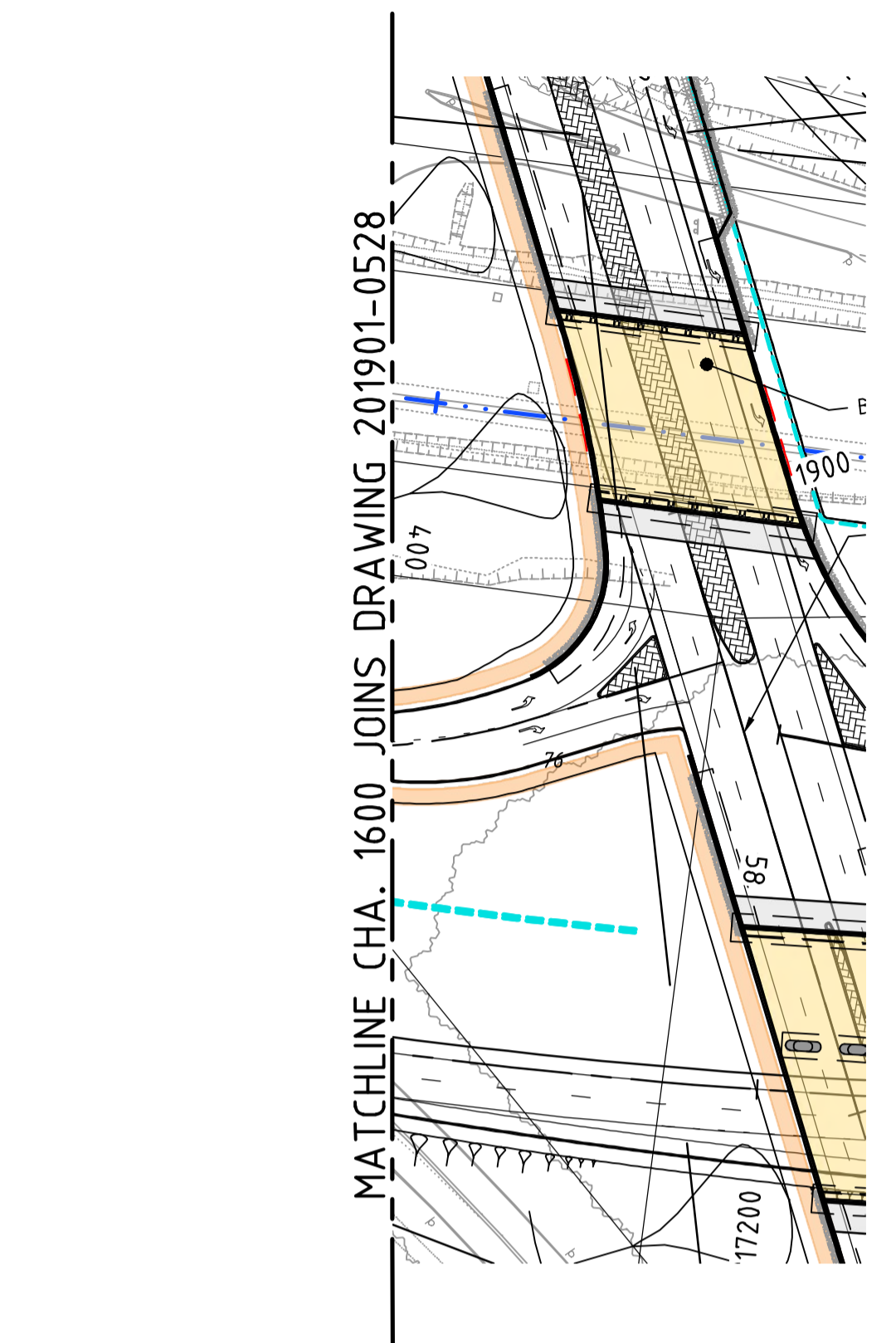
VERT. 1:100
 HORIZ. 1:1000
 SCALES
 A 1



PLAN
1:1000



PLAN
1:1000



PLAN
1:1000

V.P.I. No. 4
CHA. 1659
ELE. 21521
LVC. xxxxx
K. 8



WARNING
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METADATA

GROUND SURVEY STANDARD: 67-08-43
DATE OF CAPTURE: VARIES
MAPPING SURVEY STANDARD: N/A
DATE OF CAPTURE: N/A
MAIN ROADS PROJECT ZONE: ALB 94
HEIGHT DATUM: AHD



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VERIFIED:
DIRECTOR:

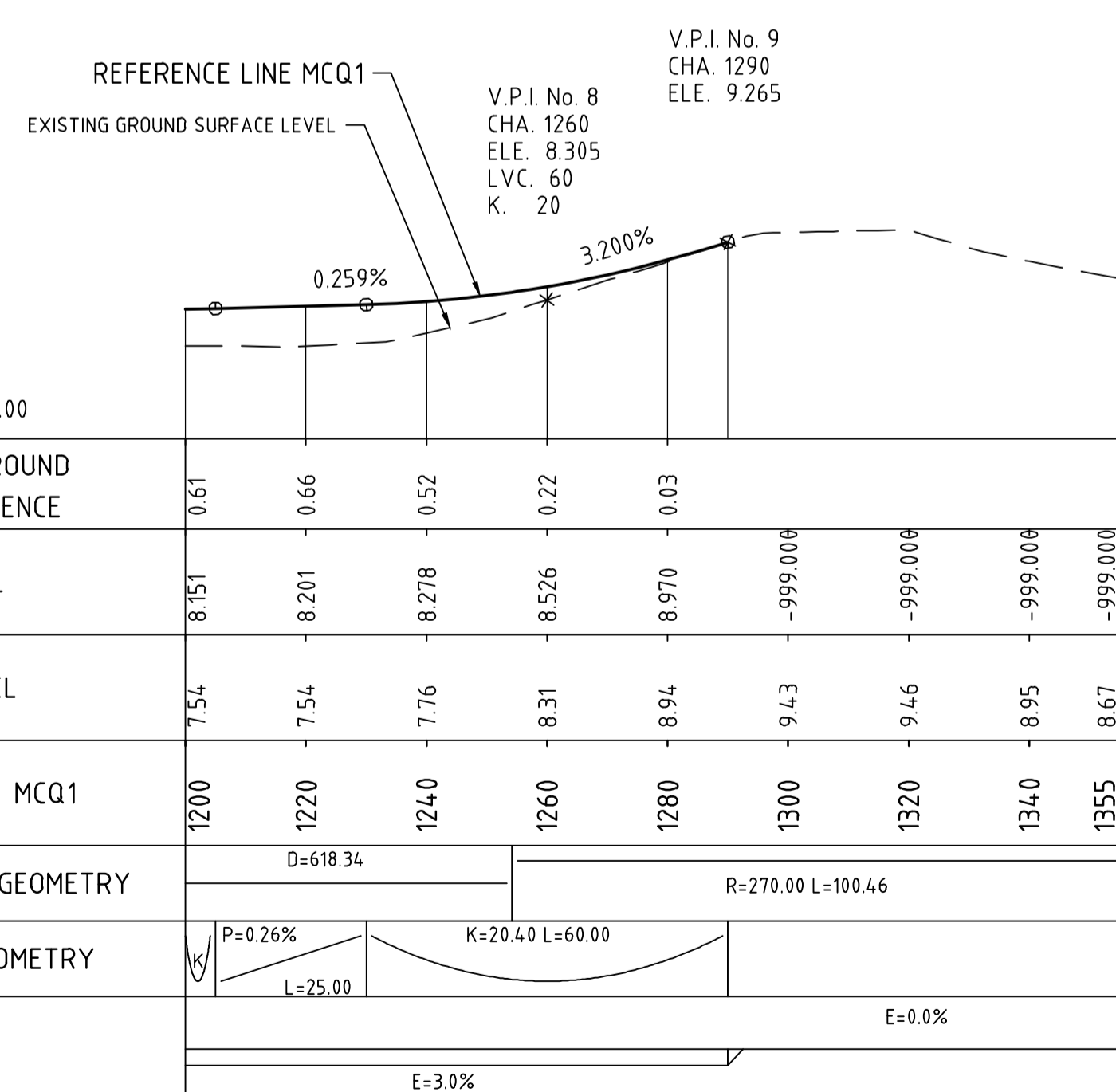


REGIONAL SERVICES DIRECTORATE
GREAT SOUTHERN REGION
2-6 Kelly Street ALBANY 6330
Telephone (08) 9892 0555 Fax (08) 9892 0577

MRWA FILE NUMBER
APPROVED (MRWA)

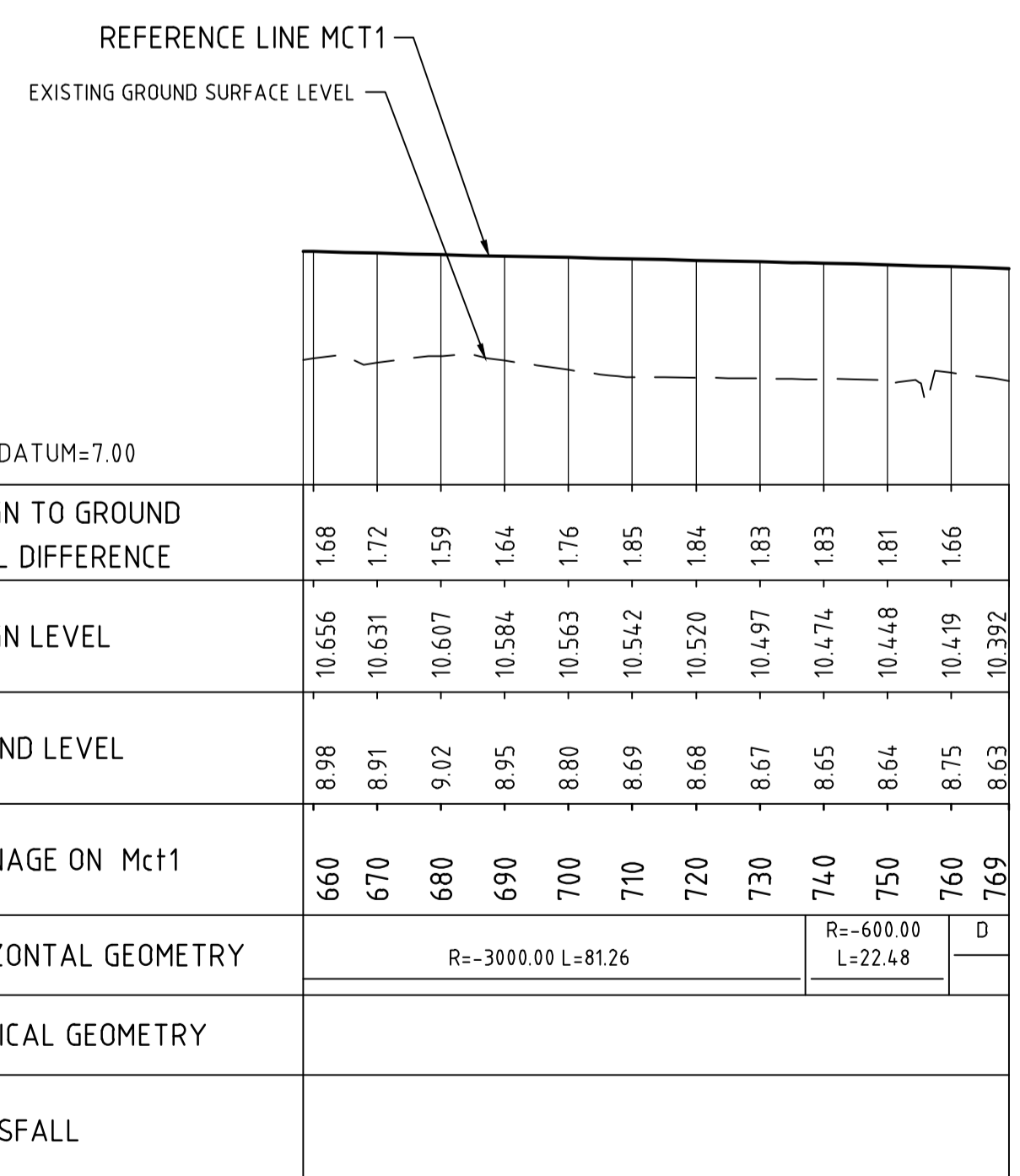
ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCQ1, MCT1

LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0365-B



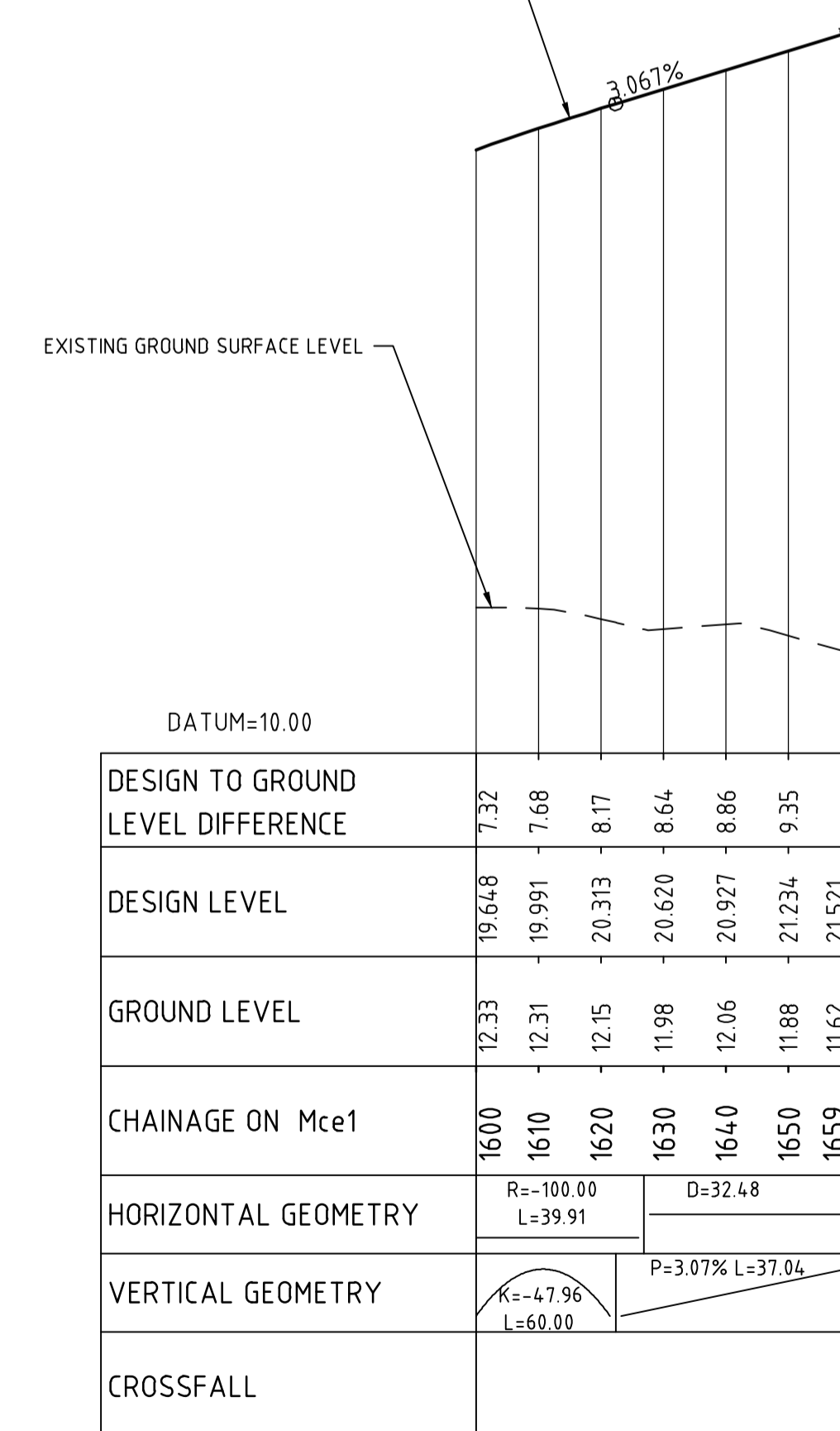
PROFILE
H 1:1000 V 1:100

DATUM=6.00										
DESIGN TO GROUND LEVEL DIFFERENCE	0.61	0.66	0.52	0.22	0.03					
DESIGN LEVEL	8.151	8.201	8.278	8.526	8.970	-999.000	-999.000	-999.000	-999.000	-999.000
GROUND LEVEL	7.54	7.54	7.76	8.31	8.94	9.43	9.46	8.95	8.67	
CHAINAGE ON MCQ1	1200	1220	1240	1260	1280	1300	1320	1340	1355	
HORIZONTAL GEOMETRY	D=618.34		R=270.00 L=100.46							
VERTICAL GEOMETRY	P=0.26% L=25.00		K=20.40 L=60.00							
CROSSFALL	E=3.0%									



PROFILE
H 1:1000 V 1:100

DATUM=7.00										
DESIGN TO GROUND LEVEL DIFFERENCE	1.68	1.72	1.59	1.64	1.76	1.85	1.84	1.83	1.83	1.66
DESIGN LEVEL	10.656	10.631	10.607	10.584	10.563	10.542	10.520	10.497	10.474	10.392
GROUND LEVEL	8.98	8.91	9.02	8.95	8.80	8.69	8.68	8.67	8.65	8.63
CHAINAGE ON Mct1	660	670	680	690	700	710	720	730	740	769
HORIZONTAL GEOMETRY	R=3000.00 L=81.26								R=600.00 L=22.48	
VERTICAL GEOMETRY										
CROSSFALL										

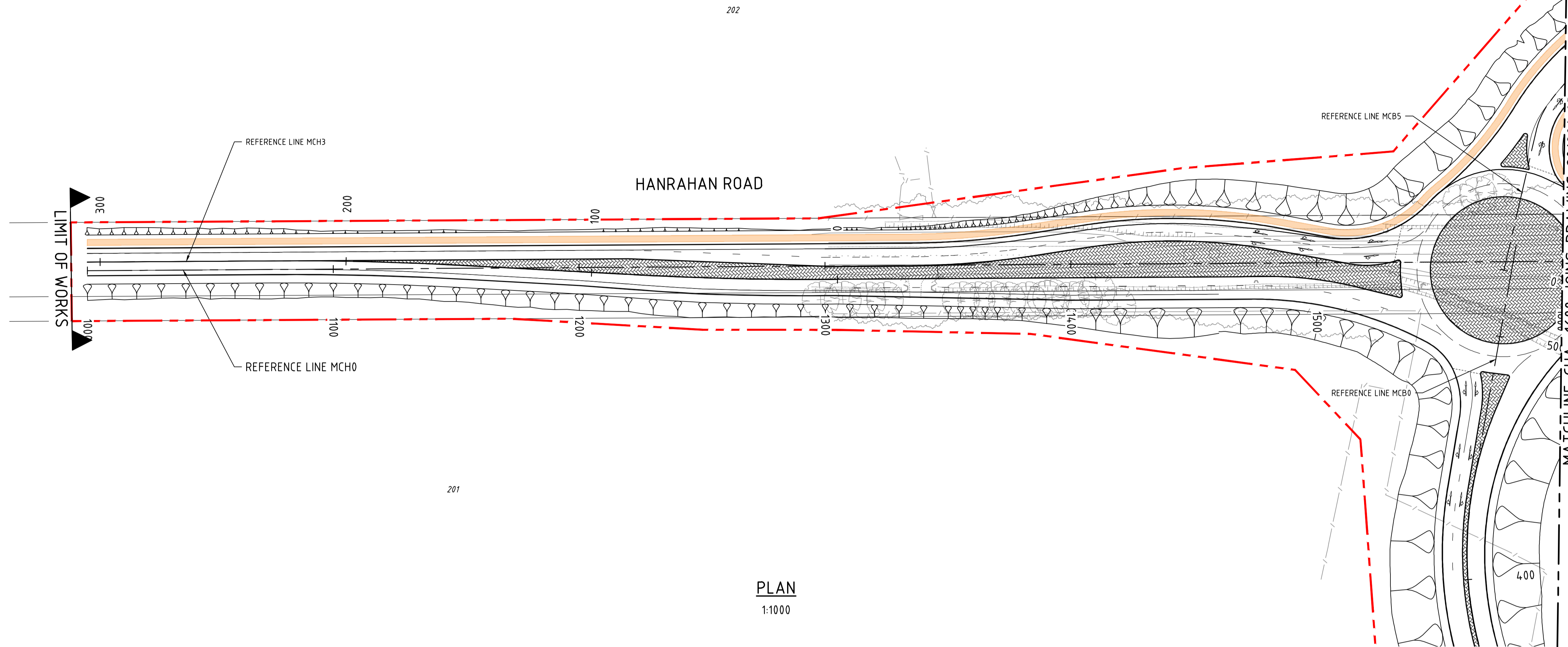
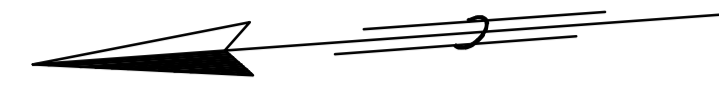


PROFILE
H 1:1000 V 1:100

DATUM=10.00										
DESIGN TO GROUND LEVEL DIFFERENCE	7.32	7.68	8.17	8.64	8.86	9.35				
DESIGN LEVEL	19.648	19.991	20.313	20.620	20.927	21.234	21.521			
GROUND LEVEL	12.33	12.31	12.15	11.98	12.06	11.88	11.62			
CHAINAGE ON Mce1	1600	1610	1620	1630	1640	1650	1659			
HORIZONTAL GEOMETRY	R=1000.00 L=39.91		D=32.48							
VERTICAL GEOMETRY	K=47.96 L=60.00		P=3.07% L=37.04							
CROSSFALL										

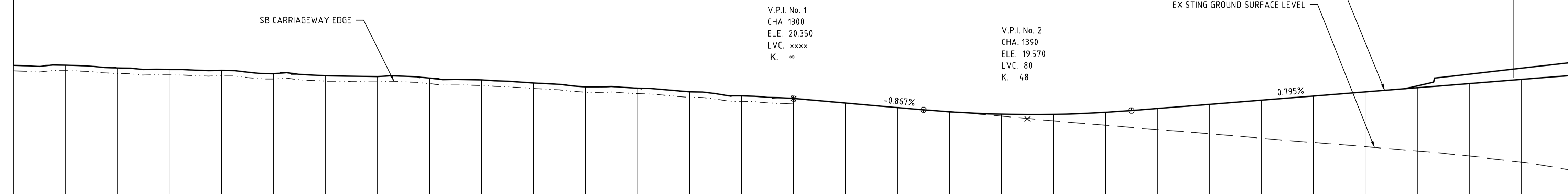
PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000

LIMIT OF WORKS
CHA. 1000



PROFILE
H 1:1000 V 1:100

DESIGN TO GROUND LEVEL DIFFERENCE	DESIGN LEVEL	GROUND LEVEL	CHAINAGE ON Mch0	HORIZONTAL GEOMETRY	VERTICAL GEOMETRY	CROSSFALL
0.00	21.625	21.63	1000			E=3.0%
0.00	21.579	21.58	1010			
0.00	21.628	21.63	1020			
0.00	21.591	21.59	1030			
0.00	21.524	21.52	1040			
0.00	21.459	21.46	1050			
0.00	21.467	21.47	1060			
0.00	21.437	21.44	1070			
0.00	21.428	21.43	1080			
0.00	21.363	21.36	1090			
0.00	21.395	21.31	1100			
0.00	21.274	21.27	1110			
0.00	21.229	21.23	1120			
0.00	21.211	21.21	1130			
0.00	21.194	21.19	1140			
0.00	21.207	21.21	1150			
0.00	21.130	21.13	1160			
0.00	21.084	21.08	1170			
0.00	21.065	21.06	1180			
0.00	21.012	21.01	1190			
0.00	20.947	20.95	1200			
0.00	20.892	20.89	1210			
0.00	20.797	20.80	1220			
0.00	20.807	20.81	1230			
0.00	20.747	20.75	1240			
0.00	20.692	20.69	1250			
0.00	20.607	20.61	1260			
0.00	20.538	20.54	1270			
0.00	20.454	20.45	1280			
0.00	20.393	20.39	1290			
0.00	20.350	20.35	1300			
0.01	20.263	20.26	1310			
0.00	20.177	20.17	1320			
0.00	20.090	20.09	1330			
0.00	20.003	20.00	1340			
-0.01	19.917	19.93	1350			
-0.01	19.840	19.85	1360			
0.02	19.785	19.76	1370			
0.07	19.750	19.68	1380			
0.15	19.736	19.58	1390			
0.25	19.743	19.49	1400			
0.36	19.770	19.41	1410			
0.50	19.819	19.32	1420			
0.65	19.888	19.24	1430			
0.81	19.967	19.16	1440			
0.97	20.047	19.08	1450			
1.13	20.126	19.00	1460			
1.29	20.206	18.91	1470			
1.46	20.285	18.82	1480			
1.63	20.365	18.74	1490			
1.78	20.444	18.66	1500			
1.94	20.524	18.58	1510			
2.10	20.603	18.50	1520			
2.26	20.683	18.42	1530			
2.43	20.762	18.33	1540			
2.60	20.842	18.24	1550			
2.78	20.921	18.14	1560			
2.97	21.001	18.03	1570			
3.17	21.080	17.91	1580			
3.41	21.160	17.75	1590			
3.65	21.239	17.59	1600			

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
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METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

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DRAWING NUMBER/DOCUMENT ID	G:\61\371571\CADD\Drawings
DESIGNED / DRAWN	V. SINAGRA / E. HARRIS
VERIFIED	
DIRECTOR	

mainroads WESTERN AUSTRALIA
REGIONAL SERVICES DIRECTORATE
GREAT SOUTHERN REGION
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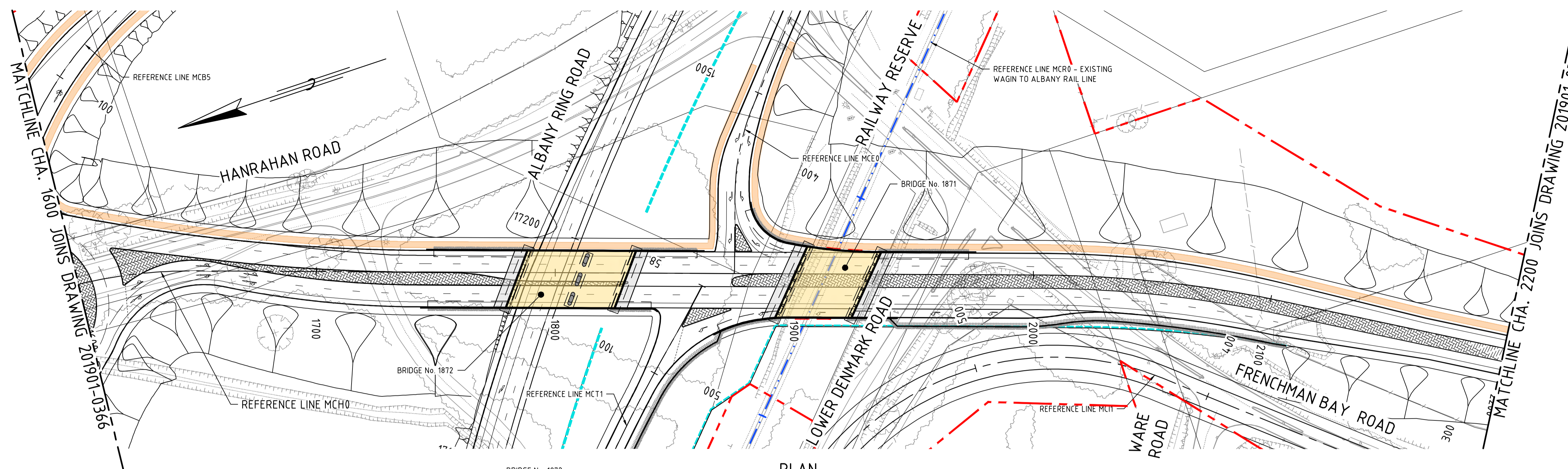
MRWA FILE NUMBER
APPROVED (MRWA)

ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCH0
CHA. 1000 TO CHA. 1600

LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0366-B

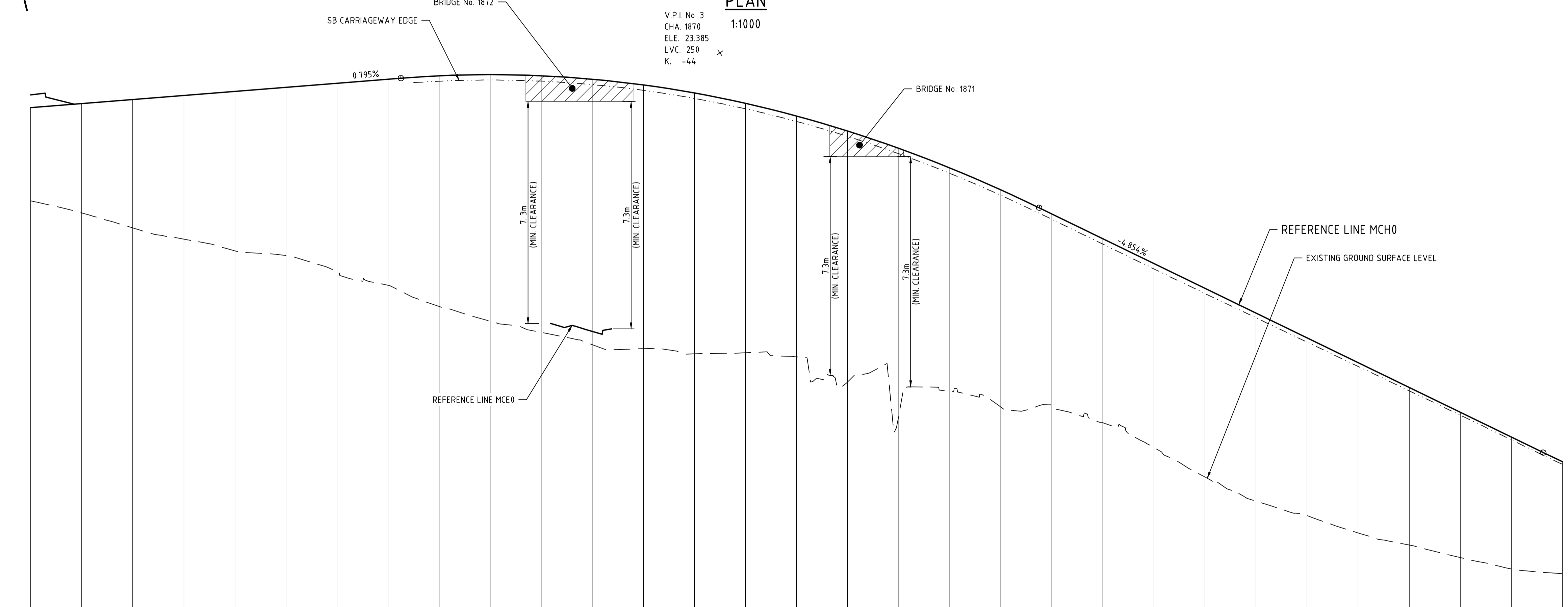
PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



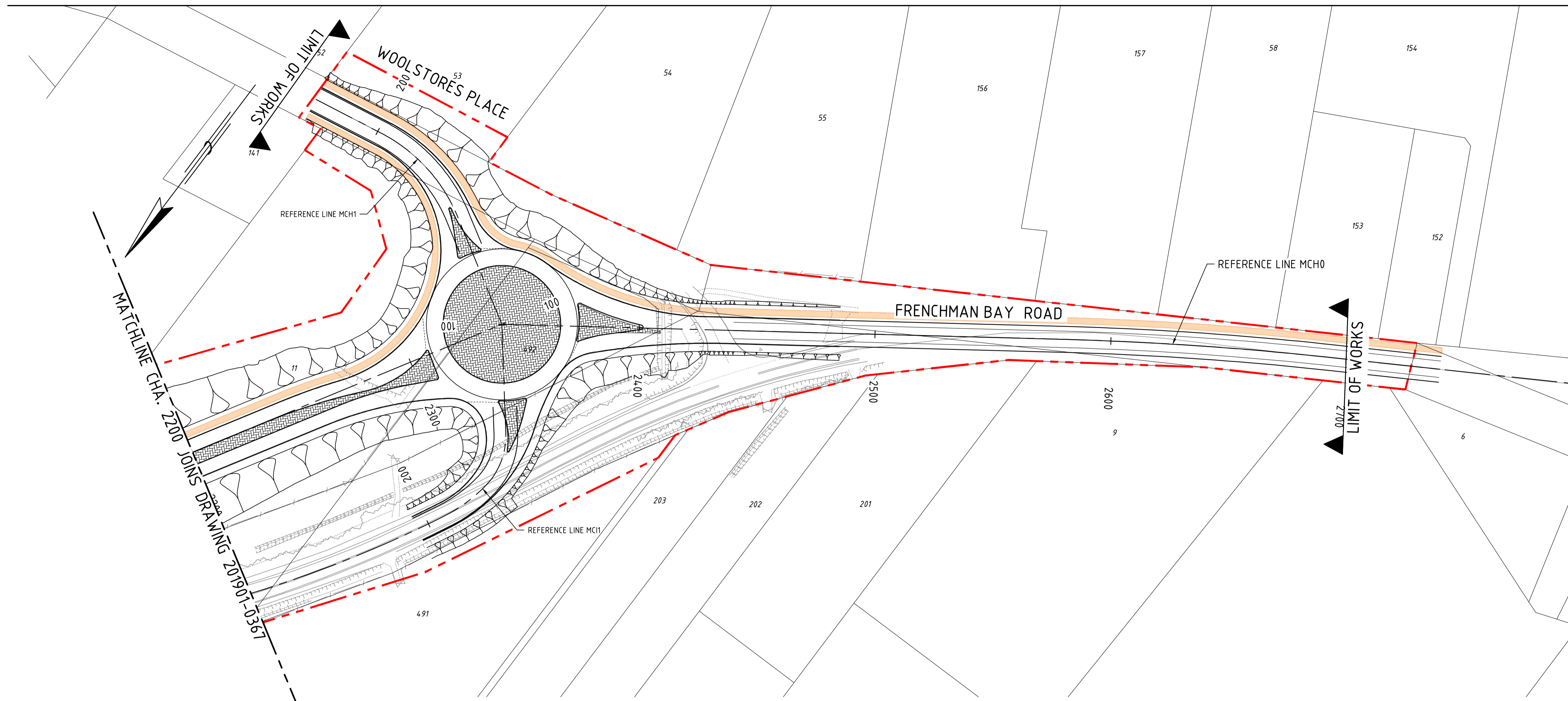
PLAN
1:1000

V.P.I. No. 3
CHA. 1870
ELE. 23.385
LVC. 250
K. -44

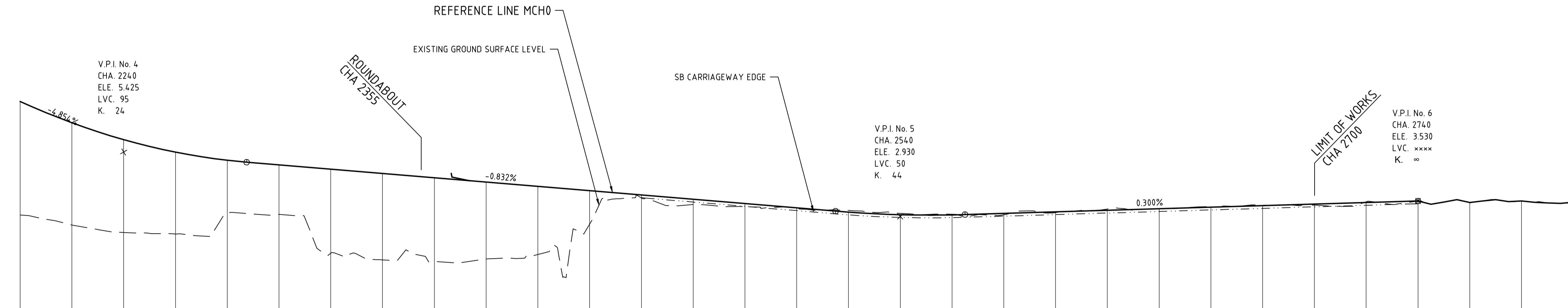


PROFILE
H 1:1000 V 1:100

DESIGN TO GROUND LEVEL DIFFERENCE	3.65	3.95	4.28	4.65	5.02	5.38	5.63	5.88	6.25	6.42	6.59	6.93	7.36	7.83	8.07	8.62	9.03	9.36	9.66	9.81	10.05	10.19	10.21	10.00	9.76	9.64	9.43	10.03	9.82	9.06	10.50	8.97	8.74	8.52	8.50	8.16	7.61	7.38	7.20	7.14	7.36	7.20	6.95	6.83	6.67	6.46	6.16	5.93	5.69	5.42	5.16	4.79	4.39																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
DESIGN LEVEL	21239	21319	21398	21477	21557	21636	21716	21795	21875	21954	22034	22113	22193	22272	22352	22428	22485	22520	22531	22520	22487	22431	22352	22251	22127	21980	21811	21620	21405	21169	20909	20627	20322	19995	19645	19273	18878	18460	18020	17557	17075	16589	16104	15619	15133	14648	14162	13677	13191	12706	12221	11735	11250	10764	10279	9794	9308	8823	8337	7852	7379																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
GROUND LEVEL	1759	1737	1712	1683	1653	1625	1609	1591	1563	1533	1505	1478	1452	1428	1400	1370	1340	1310	1280	1250	1220	1190	1160	1130	1100	1070	1040	1010	980	950	920	890	860	830	800	770	740	710	680	650	620	590	560	530	500	470	440	410	380	350	320	290	260	230	200	170	140	110	80	50	20	0	-30	-60	-90	-120	-150	-180	-210	-240	-270	-300	-330	-360	-390	-420	-450	-480	-510	-540	-570	-600	-630	-660	-690	-720	-750	-780	-810	-840	-870	-900	-930	-960	-990	-1020	-1050	-1080	-1110	-1140	-1170	-1200	-1230	-1260	-1290	-1320	-1350	-1380	-1410	-1440	-1470	-1500	-1530	-1560	-1590	-1620	-1650	-1680	-1710	-1740	-1770	-1800	-1830	-1860	-1890	-1920	-1950	-1980	-2010	-2040	-2070	-2100	-2130	-2160	-2190	-2220	-2250	-2280	-2310	-2340	-2370	-2400	-2430	-2460	-2490	-2520	-2550	-2580	-2610	-2640	-2670	-2700	-2730	-2760	-2790	-2820	-2850	-2880	-2910	-2940	-2970	-3000	-3030	-3060	-3090	-3120	-3150	-3180	-3210	-3240	-3270	-3300	-3330	-3360	-3390	-3420	-3450	-3480	-3510	-3540	-3570	-3600	-3630	-3660	-3690	-3720	-3750	-3780	-3810	-3840	-3870	-3900	-3930	-3960	-3990	-4020	-4050	-4080	-4110	-4140	-4170	-4200	-4230	-4260	-4290	-4320	-4350	-4380	-4410	-4440	-4470	-4500	-4530	-4560	-4590	-4620	-4650	-4680	-4710	-4740	-4770	-4800	-4830	-4860	-4890	-4920	-4950	-4980	-5010	-5040	-5070	-5100	-5130	-5160	-5190	-5220	-5250	-5280	-5310	-5340	-5370	-5400	-5430	-5460	-5490	-5520	-5550	-5580	-5610	-5640	-5670	-5700	-5730	-5760	-5790	-5820	-5850	-5880	-5910	-5940	-5970	-6000	-6030	-6060	-6090	-6120	-6150	-6180	-6210	-6240	-6270	-6300	-6330	-6360	-6390	-6420	-6450	-6480	-6510	-6540	-6570	-6600	-6630	-6660	-6690	-6720	-6750	-6780	-6810	-6840	-6870	-6900	-6930	-6960	-6990	-7020	-7050	-7080	-7110	-7140	-7170	-7200	-7230	-7260	-7290	-7320	-7350	-7380	-7410	-7440	-7470	-7500	-7530	-7560	-7590	-7620	-7650	-7680	-7710	-7740	-7770	-7800	-7830	-7860	-7890	-7920	-7950	-7980	-8010	-8040	-8070	-8100	-8130	-8160	-8190	-8220	-8250	-8280	-8310	-8340	-8370	-8400	-8430	-8460	-8490	-8520	-8550	-8580	-8610	-8640	-8670	-8700	-8730	-8760	-8790	-8820	-8850	-8880	-8910	-8940	-8970	-9000	-9030	-9060	-9090	-9120	-9150	-9180	-9210	-9240	-9270	-9300	-9330	-9360	-9390	-9420	-9450	-9480	-9510	-9540	-9570	-9600	-9630	-9660	-9690	-9720	-9750	-9780	-9810	-9840	-9870	-9900	-9930	-9960	-9990	-10020	-10050	-10080	-10110	-10140	-10170	-10200	-10230	-10260	-10290	-10320	-10350	-10380	-10410	-10440	-10470	-10500	-10530	-10560	-10590	-10620	-10650	-10680	-10710	-10740	-10770	-10800	-10830	-10860	-10890	-10920	-10950	-10980	-11010	-11040	-11070	-11100	-11130	-11160	-11190	-11220	-11250	-11280	-11310	-11340	-11370	-11400	-11430	-11460	-11490	-11520	-11550	-11580	-11610	-11640	-11670	-11700	-11730	-11760	-11790	-11820	-11850	-11880	-11910	-11940	-11970	-12000	-12030	-12060	-12090	-12120	-12150	-12180	-12210	-12240	-12270	-12300	-12330	-12360	-12390	-12420	-12450	-12480	-12510	-12540	-12570	-12600	-12630	-12660	-12690	-12720	-12750	-12780	-12810	-12840	-12870	-12900	-12930	-12960	-12990	-13020	-13050	-13080	-13110	-13140	-13170	-13200	-13230	-13260	-13290	-13320	-13350	-13380	-13410	-13440	-13470	-13500	-13530	-13560	-13590	-13620	-13650	-13680	-13710	-13740	-13770	-13800	-13830	-13860	-13890	-13920	-13950	-13980	-14010	-14040	-14070	-14100	-14130	-14160	-14190	-14220	-14250	-14280	-14310	-14340	-14370	-14400	-14430	-14460	-14490	-14520	-14550	-14580	-14610	-14640	-14670	-14700	-14730	-14760	-14790	-14820	-14850	-14880	-14910	-14940	-14970	-15000	-15030	-15060	-15090	-15120	-15150	-15180	-15210	-15240	-15270	-15300	-15330	-15360	-15390	-15420	-15450	-15480	-15510	-15540	-15570	-15600	-15630	-15660	-15690	-15720	-15750	-15780	-15810	-15840	-15870	-15900	-15930	-15960	-15990	-16020	-16050	-16080	-16110	-16140	-16170	-16200	-16230	-16260	-16290	-16320	-16350	-16380	-16410	-16440	-16470	-16500	-16530	-16560	-16590	-16620	-16650	-16680	-16710	-16740	-16770	-16800	-16830	-16860	-16890	-16920	-16950	-16980	-17010	-17040	-17070	-17100	-17130	-17160	-17190	-17220	-17250	-17280	-17310	-17340	-17370	-17400	-17430	-17460	-17490	-17520	-17550	-17580	-17610	-17640	-17670	-17700	-17730	-17760	-17790	-17820	-17850	-17880	-17910	-17940	-17970	-18000	-18030	-18060	-18090	-18120	-18150	-18180	-18210	-18240	-18270	-18300	-18330	-18360	-18390	-18420	-18450	-18480	-18510	-18540	-18570	-18600	-18630	-18660	-18690	-18720	-18750	-18780	-18810	-18840	-18870	-18900	-18930	-18960	-18990	-19020	-19050	-19080	-19110	-19140	-19170	-19200	-19230	-19260	-19290	-19320	-19350	-19380	-19410	-19440	-19470	-19500	-19530	-19560	-19590	-19620	-19650	-19680	-19710	-19740	-19770	-19800	-19830	-19860	-19890	-19920	-19950	-19980	-20010	-20040	-20070	-20100	-20130	-20160	-20190	-20220	-20250	-20280	-20310	-20340	-20370	-20400	-20430	-20460	-20490	-20520	-20550	-20580	-20610	-20640	-20670	-20700	-20730	-20760	-20790	-20820	-20850	-20880	-20910	-20940	-20970	-21000	-21030	-21060	-21090	-21120	-21150	-21180	-21210	-21240	-21270	-21300	-21330	-21360	-21390	-21420	-21450	-21480	-21510	-21540	-21570	-21600	-21630	-21660	-21690	-21720	-21750	-21780	-21810	-21840	-21870	-21900	-21930	-21960	-21990	-22020	-22050	-22080	-22110	-22140	-22170	-22200	-22230	-22260	-22290	-22320	-22350	-22380	-22410	-22440	-22470	-22500	-22530	-22560	-22590	-22620	-22650	-22680	-22710	-22740	-22770	-22800	-22830	-22860	-22890	-22920	-22950	-22980	-23010	-23040	-23070	-23100	-23130	-23160	-23190	-23220	-23250	-23280	-23310	-23340	-23370	-23400	-23430	-23460	-23490	-23520	-23550	-23580	-23610	-23640	-23670	-23700	-23730	-23760	-23790	-23820	-23850	-23880	-23910	-23940	-23970	-24000	-24030	-24060	-24090	-24120	-24150	-24180	-24210	-24240	-24270	-24300	-24330	-24360	-24390	-24420	-24450	-24480	-24510	-24540	-24570	-24600	-24630	-24660	-24690	-24720	-24750	-24780	-24810	-24840	-24870	-24900	-24930	-24960	-24990	-25020	-25050	-25080	-25110	-25140	-25170	-25200	-25230	-25260	-25290	-25320	-25350	-25380	-25410	-25440	-25470	-25500	-25530	-25560	-25590	-25620	-25650	-25680	-25710	-25740	-25770	-25800	-25830	-25860	-25890	-25920	-25950	-25980	-26010	-26040	-26070	-26100	-26130	-26160	-26190	-26220	-26250	-26280	-26310	-26340	-26370	-26400	-26430	-26460	-26490	-26520	-26550	-26580	-26610	-26640	-26670	-26700	-26730	-26760	-26790	-26820	-26850	-26880	-26910	-26940	-26970	-27000	-27030	-27060	-27090	-27120	-27150	-27180	-27210	-27240	-27270	-27300	-27330	-27360	-27390	-27420	-27450	-27480	-27510	-27540	-27570	-27600	-27630	-27660	-27690	-27720	-27750	-27780	-27810	-27840	-27870	-27900	-27930	-27960	-27990	-28020	-28050	-28080	-28110	-28140	-28170	-28200	-28230	-28260	-28290	-28320	-28350	-28380	-28410	-28440	-28470	-28500	-28530	-28560	-28590	-28620	-28650	-28680	-28710	-28740	-28770	-28800	-28830	-28860	-28890	-28920	-28950	-28980	-29010	-29040	-29070	-29100	-29130	-29160	-29190	-29220	-29250	-29280	-29310	-29340	-29370	-29400	-29430	-29460	-29490	-29520	-29550	-29580	-29610	-29640	-29670	-29700	-29730	-29760	-29790	-29820	-29850	-29880	-29910	-29940	-29970	-30000	-30030	-30060	-30090	-30120	-30150	-30180	-30210	-30240	-30270	-30300	-30330	-30360	-30390	-30420	-30450	-30480	-30510	-30540	-30570	-30600	-30630	-30660	-30690	-30720	-30750	-30780	-30810	-30840	-30870	-30900	-30930	-30960	-30990	-31020	-31050	-31080	-31110	-31140	-31170	-31200	-31230	-31260	-31290	-31320	-31350	-31380	-31410	-31440	-31470	-31500	-31530	-31560	-31590	-31620	-31650	-31680	-31710	-31740	-31770	-31800	-31830	-31860	-31890	-31920	-31950	-31980



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

DESIGN TO GROUND LEVEL DIFFERENCE	DESIGN LEVEL	GROUND LEVEL	CHAINAGE ON Mch0	HORIZONTAL GEOMETRY	VERTICAL GEOMETRY	CROSSFALL
7.39	7.379	2.99	2200			
4.12	6.946	2.82	2210			
3.95	6.556	2.60	2220			
3.78	6.208	2.43	2230			
3.59	5.903	2.32	2240			
3.36	5.640	2.28	2250			
3.16	5.419	2.25	2260			
3.06	5.240	2.18	2270			
2.03	5.104	3.08	2280			
1.98	5.009	3.03	2290			
1.92	4.926	3.01	2300			
1.97	4.843	2.87	2310			
3.25	4.760	1.51	2320			
3.20	4.676	1.48	2330			
3.34	4.593	1.25	2340			
2.92	4.510	1.59	2350			
3.24	4.427	1.19	2360			
3.20	4.344	1.14	2370			
2.97	4.261	1.29	2380			
2.86	4.178	1.32	2390			
2.63	4.094	1.46	2400			
3.41	4.011	0.60	2410			
1.29	3.928	2.64	2420			
0.23	3.845	3.61	2430			
0.12	3.762	3.64	2440			
0.32	3.679	3.36	2450			
0.20	3.595	3.39	2460			
0.18	3.512	3.34	2470			
0.11	3.429	3.32	2480			
0.06	3.346	3.28	2490			
0.02	3.263	3.24	2500			
0.02	3.180	3.16	2510			
0.06	3.099	3.16	2520			
0.05	3.039	3.09	2530			
0.05	3.001	3.05	2540			
0.02	2.985	3.01	2550			
0.02	2.993	3.02	2560			
0.02	3.020	3.00	2570			
0.06	3.050	2.99	2580			
0.07	3.080	3.15	2590			
0.03	3.110	3.08	2600			
0.02	3.140	3.16	2610			
0.05	3.170	3.22	2620			
0.02	3.200	3.18	2630			
0.00	3.230	3.23	2640			
0.00	3.260	3.26	2650			
0.02	3.290	3.31	2660			
0.00	3.320	3.32	2670			
0.02	3.350	3.37	2680			
0.01	3.380	3.39	2690			
0.04	3.410	3.37	2700			
0.12	3.440	3.32	2710			
0.03	3.470	3.50	2720			
0.11	3.500	3.39	2730			
0.00	3.530	3.53	2740			
0.00	3.493	3.49	2750			
0.00	3.470	3.47	2760			
0.00	3.579	3.58	2770			
0.00	3.528	3.53	2780			
0.00	3.459	3.46	2790			
0.00	3.482	3.48	2800			

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
SERVICES AND CADASTRAL BOUNDARY LOCATIONS SHOWN ARE ONLY INDICATIVE AND MUST NOT BE USED FOR EXCAVATION. THE "ONE CALL 1100" SYSTEM SHALL BE USED TO OBTAIN ACCURATE SERVICE LOCATIONS.

METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

GHD Level 10, 999 Hay Street Perth WA 6000
PO Box Y3106 Perth WA 6832 Australia
T (08) 6222 8222 F (08) 6222 8555
E permail@ghd.com.au www.ghd.com.au

DRAWING NUMBER/DOCUMENT ID:	G:\61\37151\CADD\Drawings
DESIGNED / DRAWN:	V. SINAGRA / E. HARRIS
VERIFIED:	
DIRECTOR:	

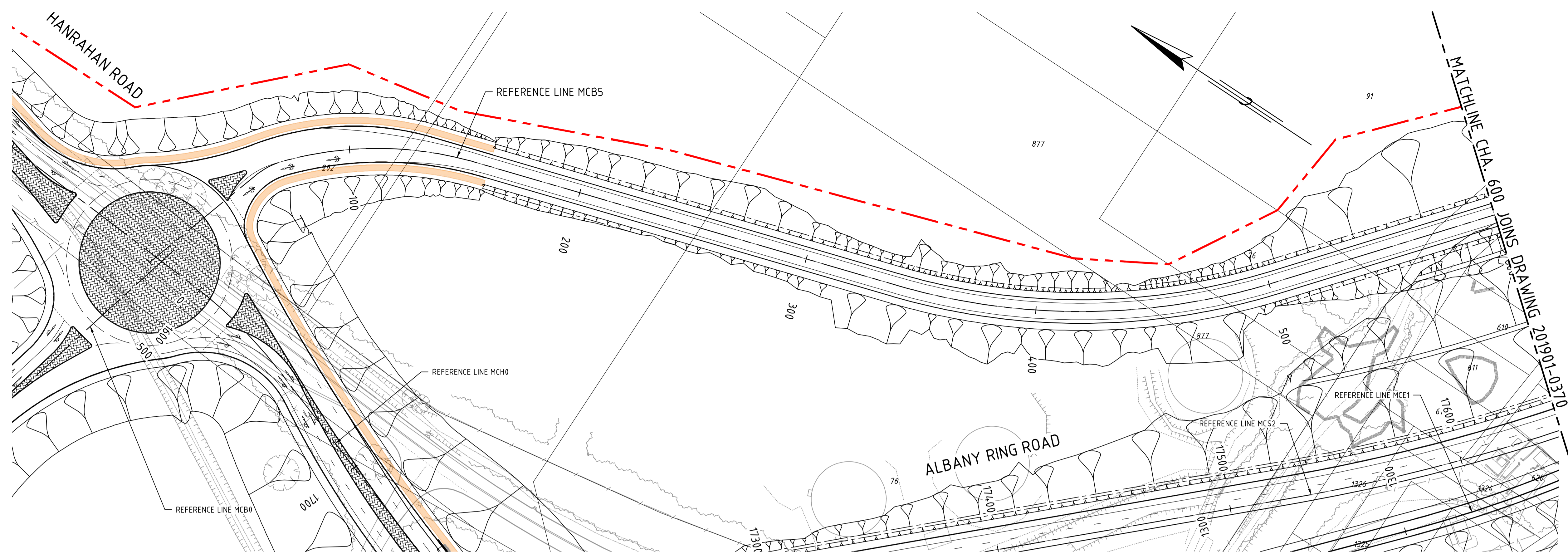
mainroads WESTERN AUSTRALIA
REGIONAL SERVICES DIRECTORATE
GREAT SOUTHERN REGION
2-6 Kelly Street Telephone (08) 9892 0555 ALBANY 6330 Fax (08) 9892 0577

MRWA FILE NUMBER
APPROVED (MRWA)
ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCH0
CHA. 2200 TO CHA. 2800

LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0368-B

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
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LEGEND

- PROJECT SITE BOUNDARY
- BASE OF DRAIN
- CADASTRAL BOUNDARY
- RETAINING WALL
- NOISE WALL (TBA)
- CONCRETE BARRIER
- RAILWAY CENTRE LINE (EXISTING)
- GRADED EARTHWORKS
- SHARED PATH
- RIP AND REHABILITATE EXISTING PAVEMENT
- HARD LANDSCAPING



WARNING
SERVICES AND CADASTRAL BOUNDARY LOCATIONS SHOWN ARE ONLY INDICATIVE AND MUST NOT BE USED FOR EXCAVATION. THE "ONE CALL 1100" SYSTEM SHALL BE USED TO OBTAIN ACCURATE SERVICE LOCATIONS.

METADATA

GROUND SURVEY STANDARD: 67-08-43
 DATE OF CAPTURE: VARIES
 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
 MAIN ROADS PROJECT ZONE: ALB 94
 HEIGHT DATUM: AHD

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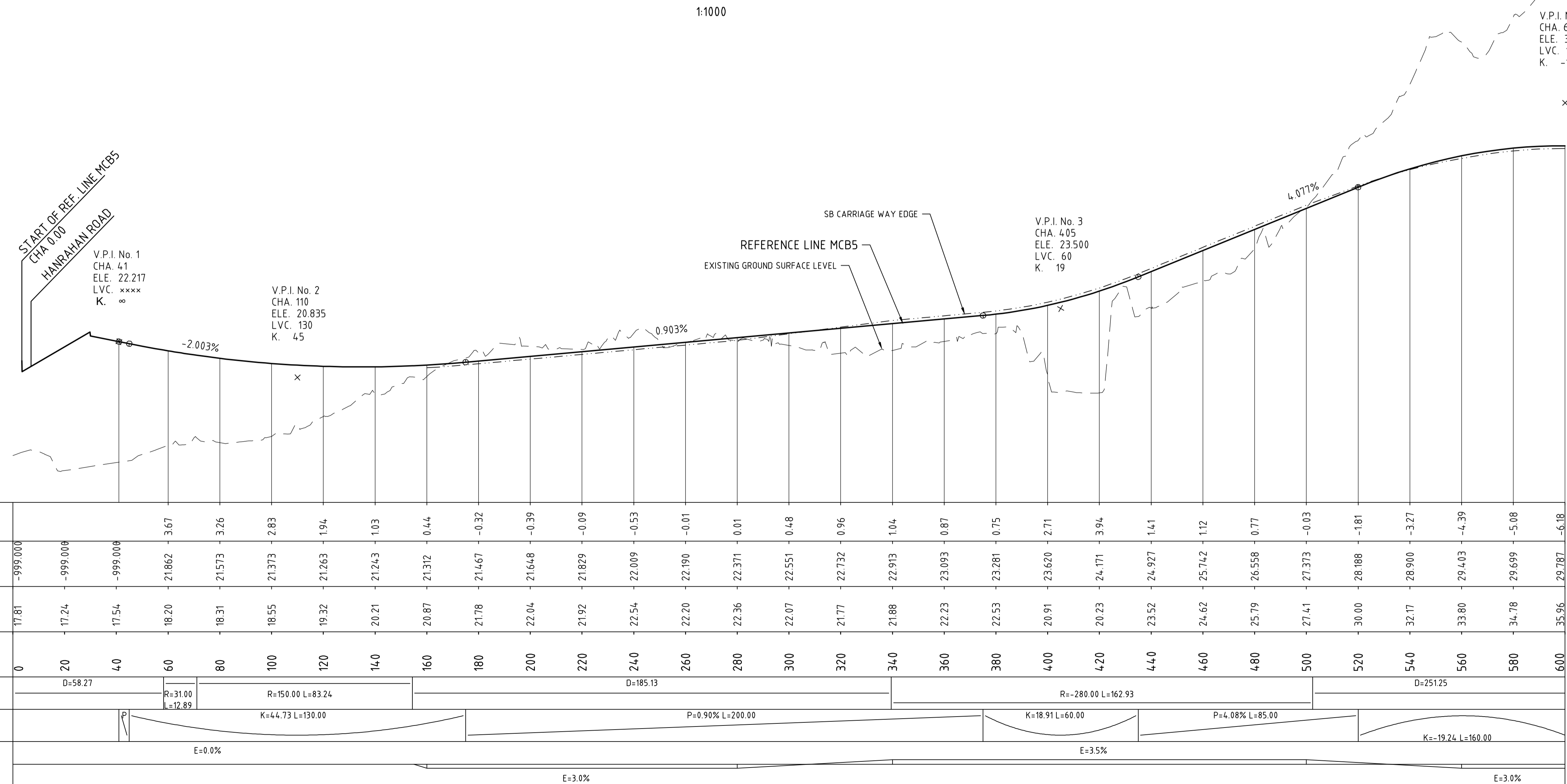
DRAWING NUMBER/DOCUMENT ID: G:\61\37157\CADD\Drawings
 DESIGNED / DRAWN: V. SINAGRA / E. HARRIS
 VERIFIED:
 DIRECTOR:

mainroads WESTERN AUSTRALIA
 REGIONAL SERVICES DIRECTORATE
 GREAT SOUTHERN REGION
 2-6 Kelly Street ALBANY 6330
 Telephone (08) 9892 0555 Fax (08) 9892 0577

MRWA FILE NUMBER
 APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
 PLAN AND PROFILE - MCB5
 CHA. 0 TO CHA. 600

LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0369-B



PROFILE
H 1:1000 V 1:100

	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	560	580	600
DESIGN TO GROUND LEVEL DIFFERENCE				-3.67	-3.26	-2.83	-1.94	-1.03	-0.44	-0.32	-0.39	-0.09	-0.53	-0.01	-0.01	-0.48	-0.96	-1.04	-0.87	-0.75	-2.71	-3.94	-1.41	-1.12	-0.77	-0.03	-1.81	-3.27	-4.39	-5.08	-6.18
DESIGN LEVEL	-999.000	-999.006	-999.008	-21.862	-21.573	-21.373	-21.263	-21.243	-21.312	-21.467	-21.648	-21.829	-22.009	-22.190	-22.371	-22.551	-22.732	-22.913	-23.093	-23.281	-23.620	-24.171	-24.927	-25.742	-26.558	-27.41	-28.188	-28.900	-29.403	-29.699	-29.787
GROUND LEVEL	17.81	17.24	17.54	18.20	18.31	18.55	19.32	20.21	20.87	21.78	22.04	21.92	22.54	22.20	22.36	22.07	21.77	21.88	22.23	22.53	20.91	20.23	23.52	24.62	25.79	27.41	30.00	32.17	33.80	34.78	35.96
CHAINAGE ON MCB5	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	560	580	600
HORIZONTAL GEOMETRY	D=58.27		R=31.00 L=12.89		R=150.00 L=83.24				D=185.13				R=280.00 L=162.93				D=251.25														
VERTICAL GEOMETRY	E=0.0%		K=44.73 L=130.00				P=0.90% L=200.00				K=18.91 L=60.00				P=4.08% L=85.00				K=-19.24 L=160.00												
CROSSFALL			E=3.0%								E=3.5%								E=3.0%												

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DRAWING TO BE PRINTED IN COLOUR.

LEGEND

	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
 SERVICES AND CADASTRAL BOUNDARY LOCATIONS SHOWN ARE ONLY INDICATIVE AND MUST NOT BE USED FOR EXCAVATION. THE "ONE CALL 1100" SYSTEM SHALL BE USED TO OBTAIN ACCURATE SERVICE LOCATIONS.

METADATA

GROUND SURVEY STANDARD: 67-08-43
 DATE OF CAPTURE: VARIES
 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
 MAIN ROADS PROJECT ZONE: ALB 94
 HEIGHT DATUM: AHD

GHD Level 10, 999 Hay Street Perth WA 6000
 PO Box Y3106 Perth WA 6832 Australia
 T (08) 6222 8222 F (08) 6222 8555
 E permail@ghd.com.au www.ghd.com.au

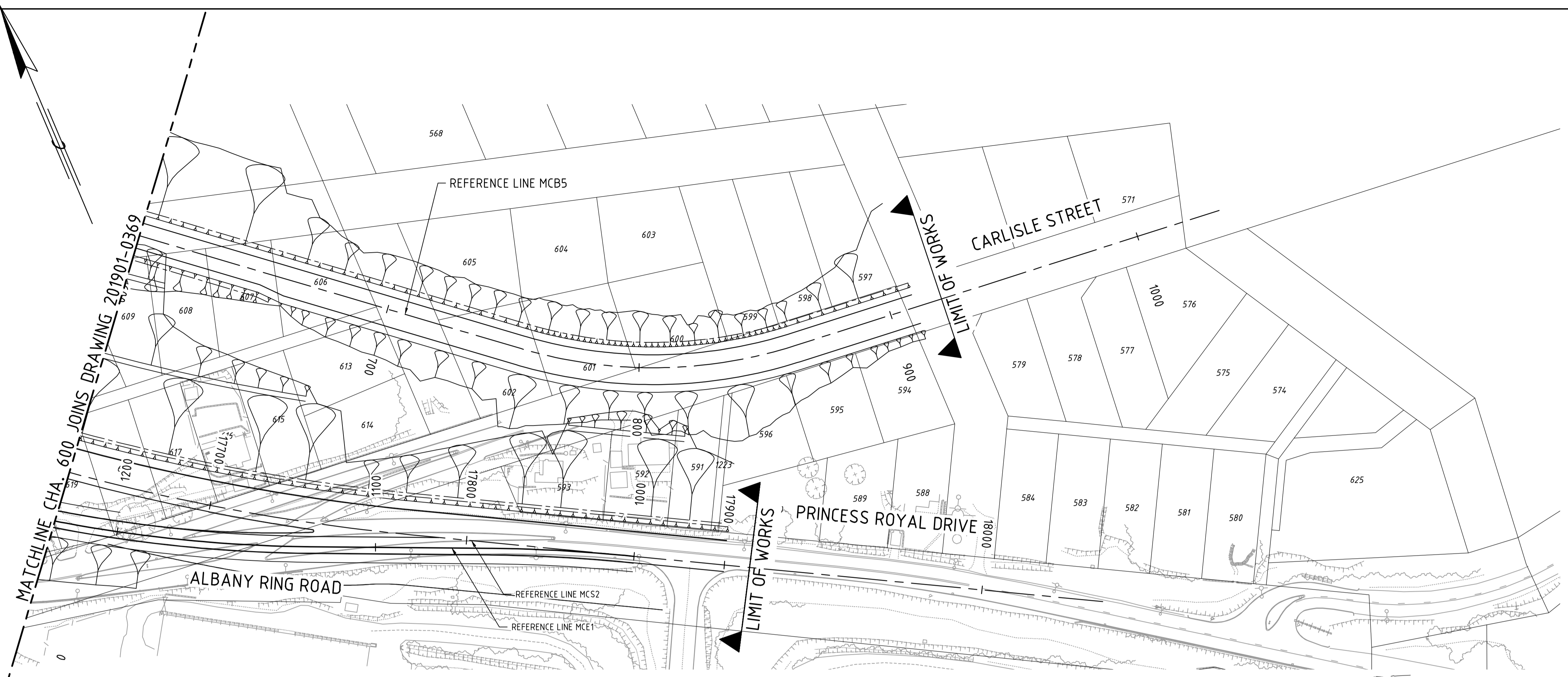
DRAWING NUMBER/DOCUMENT ID: G:\61\371571\CADD\Drawings
 DESIGNED / DRAWN: V. SINAGRA / E. HARRIS
 VERIFIED:
 DIRECTOR:

mainroads WESTERN AUSTRALIA
 REGIONAL SERVICES DIRECTORATE
 GREAT SOUTHERN REGION
 2-6 Kelly Street ALBANY 6330
 Telephone (08) 9892 0555 Fax (08) 9892 0577

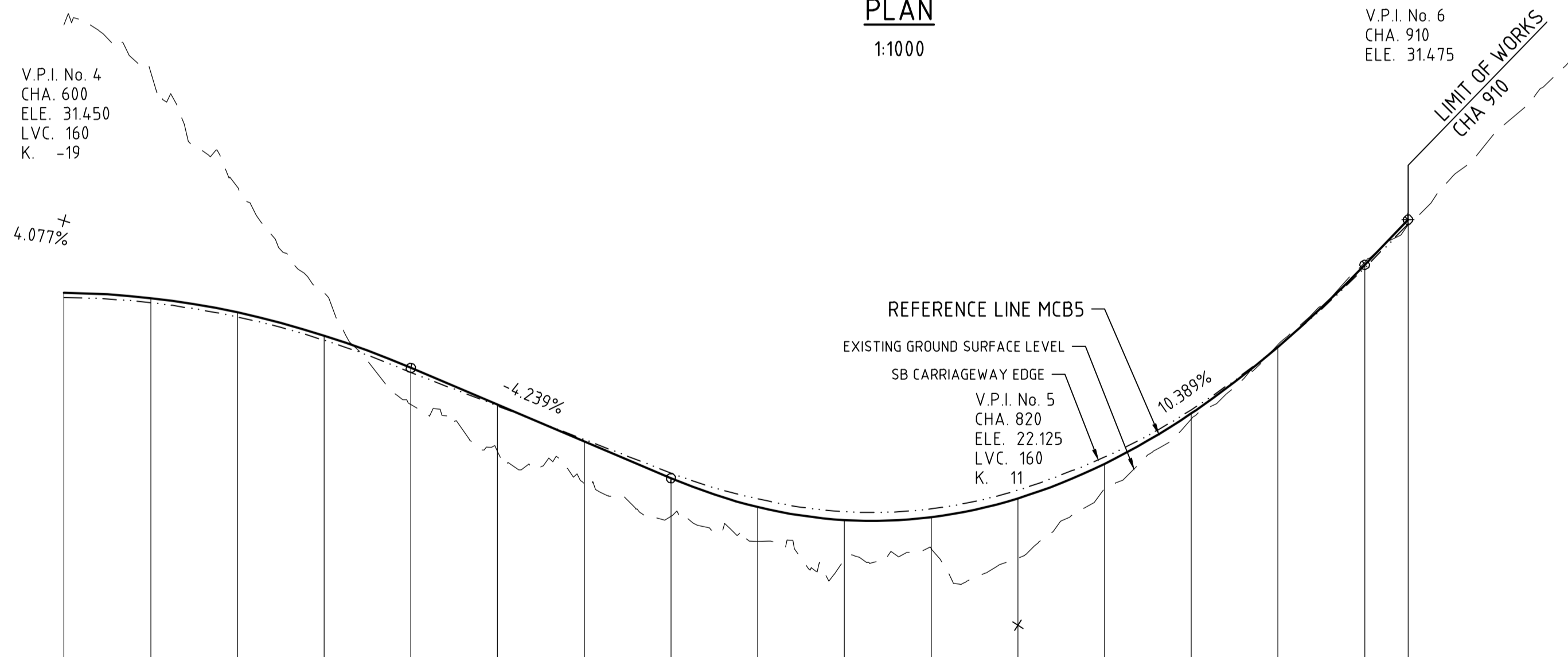
MRWA FILE NUMBER
 APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCB5
 CHA. 600 TO CHA. 1033

LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0370-B



PLAN
 1:1000

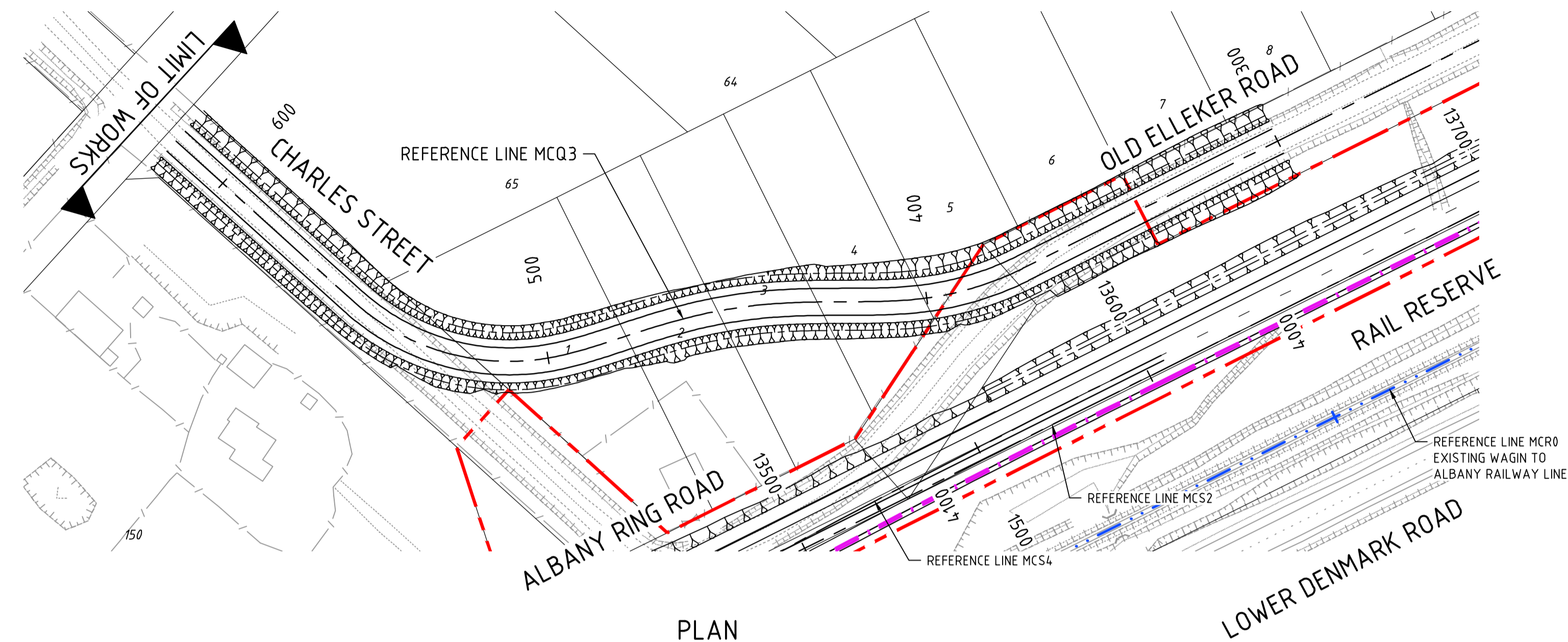
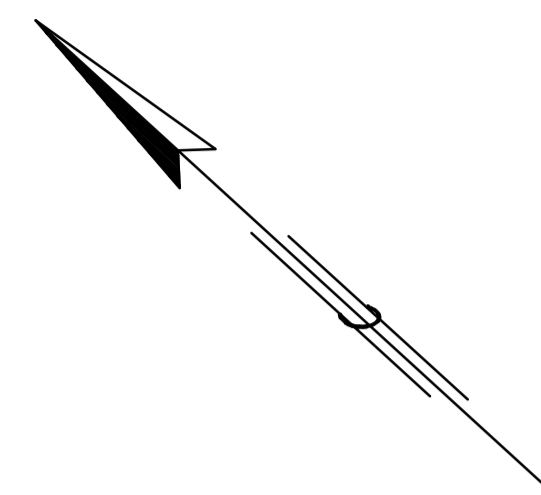


PROFILE
 H 1:1000 V 1:100

	600	620	640	660	680	700	720	740	760	780	800	820	840	860	880	900	920	940	960	980	1000	1020	1033
DESIGN TO GROUND LEVEL DIFFERENCE	-6.18	-5.22	-2.88	-0.98	-0.85	1.08	-0.98	-0.88	-0.79	-0.91	-0.72	-1.38	-0.58	-0.13	-0.05	-0.05	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008	-0.008
DESIGN LEVEL	29.787	29.667	29.339	28.803	28.059	27.211	26.364	25.516	24.851	24.552	24.618	25.051	25.848	27.012	28.541	30.436	-999.008	-999.008	-999.008	-999.008	-999.008	-999.008	-999.008
GROUND LEVEL	35.96	34.89	32.22	29.78	27.21	26.13	25.39	24.64	24.06	23.64	23.89	23.67	25.26	26.88	28.59	30.49	32.44	34.43	36.29	37.67	38.74	39.51	39.58
CHAINAGE ON MCB5	600	620	640	660	680	700	720	740	760	780	800	820	840	860	880	900	920	940	960	980	1000	1020	1033
HORIZONTAL GEOMETRY	D=251.25				R=-180.00 L=107.36								D=172.07										
VERTICAL GEOMETRY	K=-19.24 L=160.00				P=-4.24% L=60.00				K=10.94 L=160.00								P						
CROSSFALL	E=3.0%				E=5.5%								E=0.0%										

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100
 HORIZ. 1:1000
 SCALES
 A 1



PLAN
1:1000

PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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- DRAWING TO BE PRINTED IN COLOUR.

LEGEND

	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
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METADATA

GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

GHD Level 10, 999 Hay Street Perth WA 6000
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DRAWING NUMBER/DOCUMENT ID	G:\61\371571\CADD\Drawings
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VERIFIED	
DIRECTOR	

mainroads
WESTERN AUSTRALIA

REGIONAL SERVICES DIRECTORATE
GREAT SOUTHERN REGION

2-6 Kelly Street ALBANY 6330
Telephone (08) 9892 0555 Fax (08) 9892 0577

MRWA FILE NUMBER

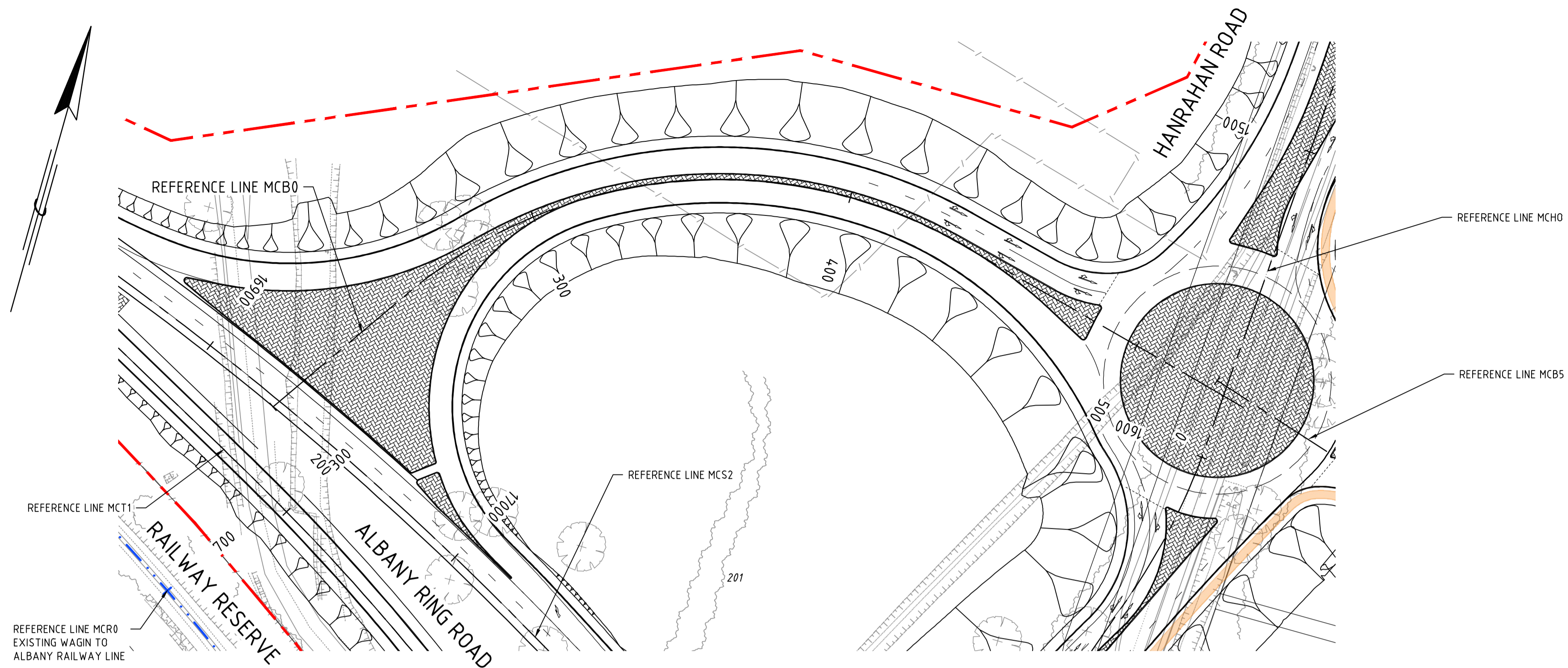
APPROVED (MRWA)

ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCQ3
CHA. 300 TO CHA. 616

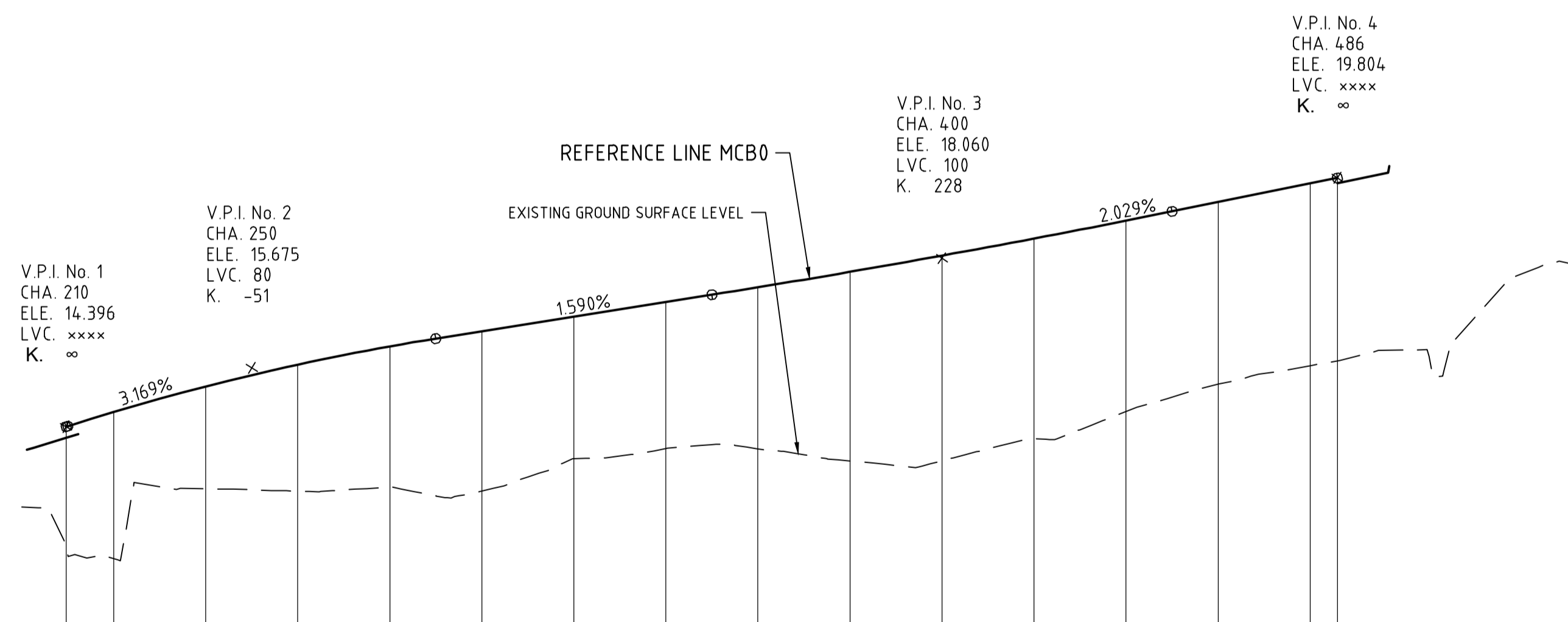
LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0521-B

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000



DESIGN TO GROUND LEVEL DIFFERENCE	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	538
DESIGN LEVEL	-999.000	14.714	15.269	15.745	16.142	16.470	16.788	17.106	17.426	17.762	18.115	18.486	18.874	19.278	19.683	-999.000	-999.000	-999.000
GROUND LEVEL	12.65	11.53	13.05	13.00	13.08	13.00	13.71	13.92	13.92	13.65	13.66	14.14	14.73	15.32	15.72	16.06	17.24	17.92
CHAINAGE ON MCB0	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	538
HORIZONTAL GEOMETRY	D=54.17		R=150.00 L=183.39										D=100.15					
VERTICAL GEOMETRY	Kc=50.66 L=80.00		P=159% L=60.00				K=227.60 L=100.00				P=2.03%		L=35.94					
CROSSFALL																		

PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES
 1. ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
 2. DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



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METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

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DRAWING NUMBER / DOCUMENT ID:	G:\61371571\CADD\Drawings
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VERIFIED:	
DIRECTOR:	

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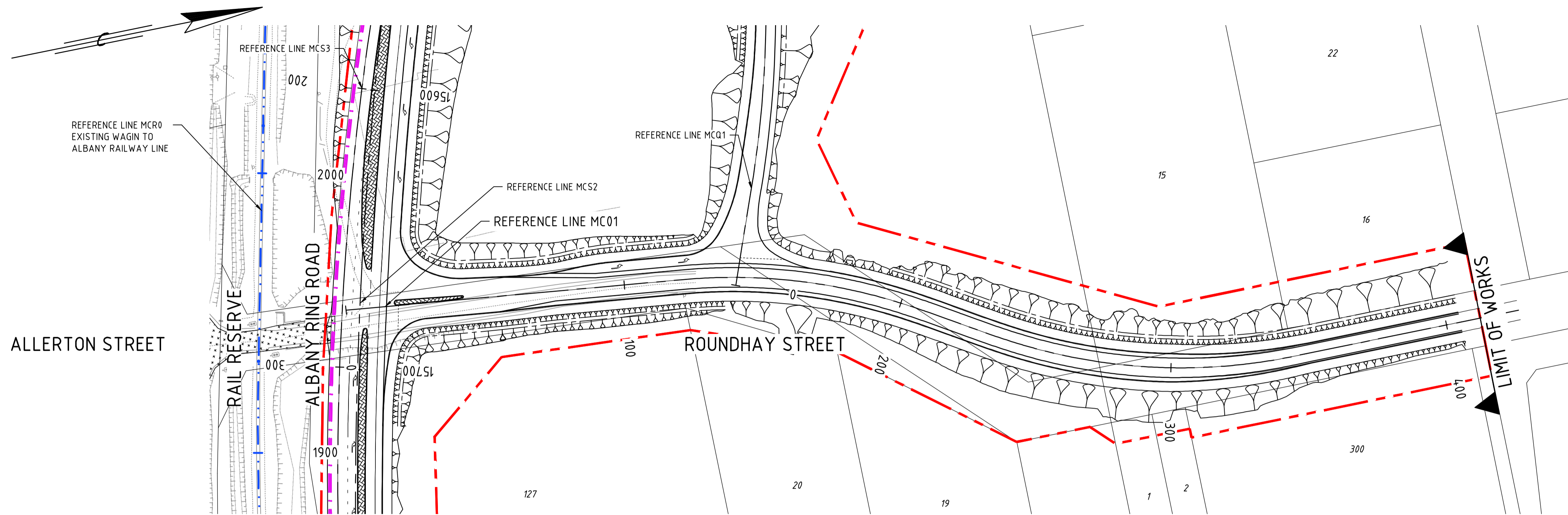
MRWA FILE NUMBER
 APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
 PLAN AND PROFILE - MCB0
 CHA. 0 TO CHA. 509

LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0522-B

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100
 HORIZ. 1:1000
 SCALES
 A 1



PLAN
1:1000

PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

- ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
- DRAWING TO BE PRINTED IN COLOUR.

LEGEND

	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



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METADATA

GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

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E permail@ghd.com.au www.ghd.com.au

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VERIFIED	
DIRECTOR	

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WESTERN AUSTRALIA

REGIONAL SERVICES DIRECTORATE
GREAT SOUTHERN REGION

2-6 Kelly Street ALBANY 6330
Telephone (08) 9892 0555 Fax (08) 9892 0577

MRWA FILE NUMBER

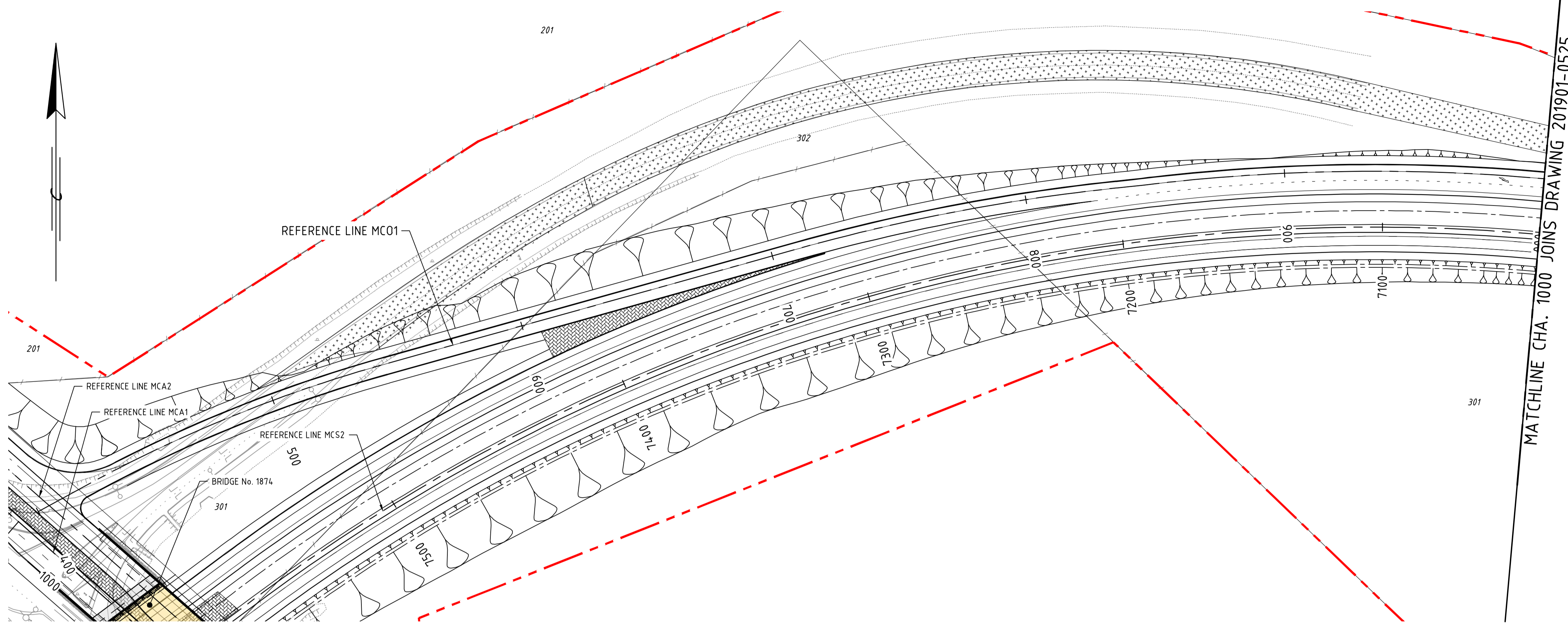
APPROVED (MRWA)

ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MC01
CHA. 0 TO CHA. 400

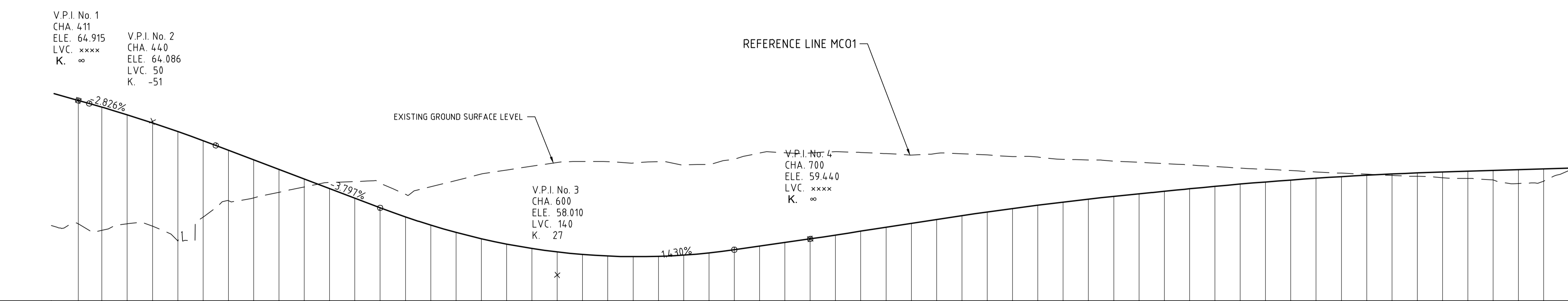
LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0523-B

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

DESIGN TO GROUND LEVEL DIFFERENCE	DESIGN LEVEL	GROUND LEVEL	CHAINAGE ON Mco1	HORIZONTAL GEOMETRY	VERTICAL GEOMETRY	CROSSFALL
	-999.000	59.97	4.00	D=20.88		
	-999.008	60.07	4.10			
	-64.649	59.78	4.20			
	-64.347	60.04	4.30			
	-64.025	59.94	4.40			
	-63.684	59.35	4.50			
	-63.324	60.30	4.60			
	-62.947	60.95	4.70	R=547.00 L=124.31		
	-62.567	61.06	4.80			
	-62.187	61.29	4.90			
	-61.807	61.49	5.00			
	-61.428	61.67	5.10			
	-61.048	61.71	5.20			
	-60.668	61.64	5.30			
	-60.307	61.20	5.40			
	-59.983	61.50	5.50			
	-59.697	61.75	5.60			
	-59.448	62.01	5.70			
	-59.236	62.17	5.80			
	-59.062	62.32	5.90			
	-58.925	62.47	6.00			
	-58.825	62.50	6.10			
	-58.763	62.50	6.20	D=165.28		
	-58.738	62.44	6.30			
	-58.750	62.49	6.40			
	-58.800	62.36	6.50			
	-58.887	62.38	6.60			
	-59.011	62.59	6.70			
	-59.154	62.83	6.80			
	-59.297	62.85	6.90			
	-59.440	62.84	7.00			
	-59.591	62.89	7.10			
	-59.745	62.86	7.20			
	-59.900	62.81	7.30			
	-60.054	62.76	7.40			
	-60.209	62.82	7.50			
	-60.359	62.81	7.60			
	-60.503	62.76	7.70			
	-60.640	62.70	7.80			
	-60.770	62.68	7.90			
	-60.894	62.59	8.00			
	-61.010	62.56	8.10			
	-61.121	62.52	8.20			
	-61.224	62.47	8.30			
	-61.322	62.42	8.40			
	-61.422	62.37	8.50			
	-61.519	62.30	8.60			
	-61.609	62.24	8.70			
	-61.692	62.19	8.80			
	-61.768	62.14	8.90			
	-61.838	62.09	9.00			
	-61.901	62.04	9.10			
	-61.957	62.00	9.20			
	-62.006	61.95	9.30			
	-62.049	61.92	9.40			
	-62.085	61.86	9.50			
	-62.116	61.83	9.60			
	-62.148	61.77	9.70			
	-62.179	61.63	9.80			
	-62.210	61.72	9.90			
	-62.242	62.14	10.00			

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
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METADATA	
GROUND SURVEY STANDARD:	67-08-43
DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

GHD Level 10, 999 Hay Street Perth WA 6000
PO Box Y3106 Perth WA 6832 Australia
T (08) 6222 8222 F (08) 6222 8555
E permail@ghd.com.au www.ghd.com.au

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VERIFIED:	
DIRECTOR:	

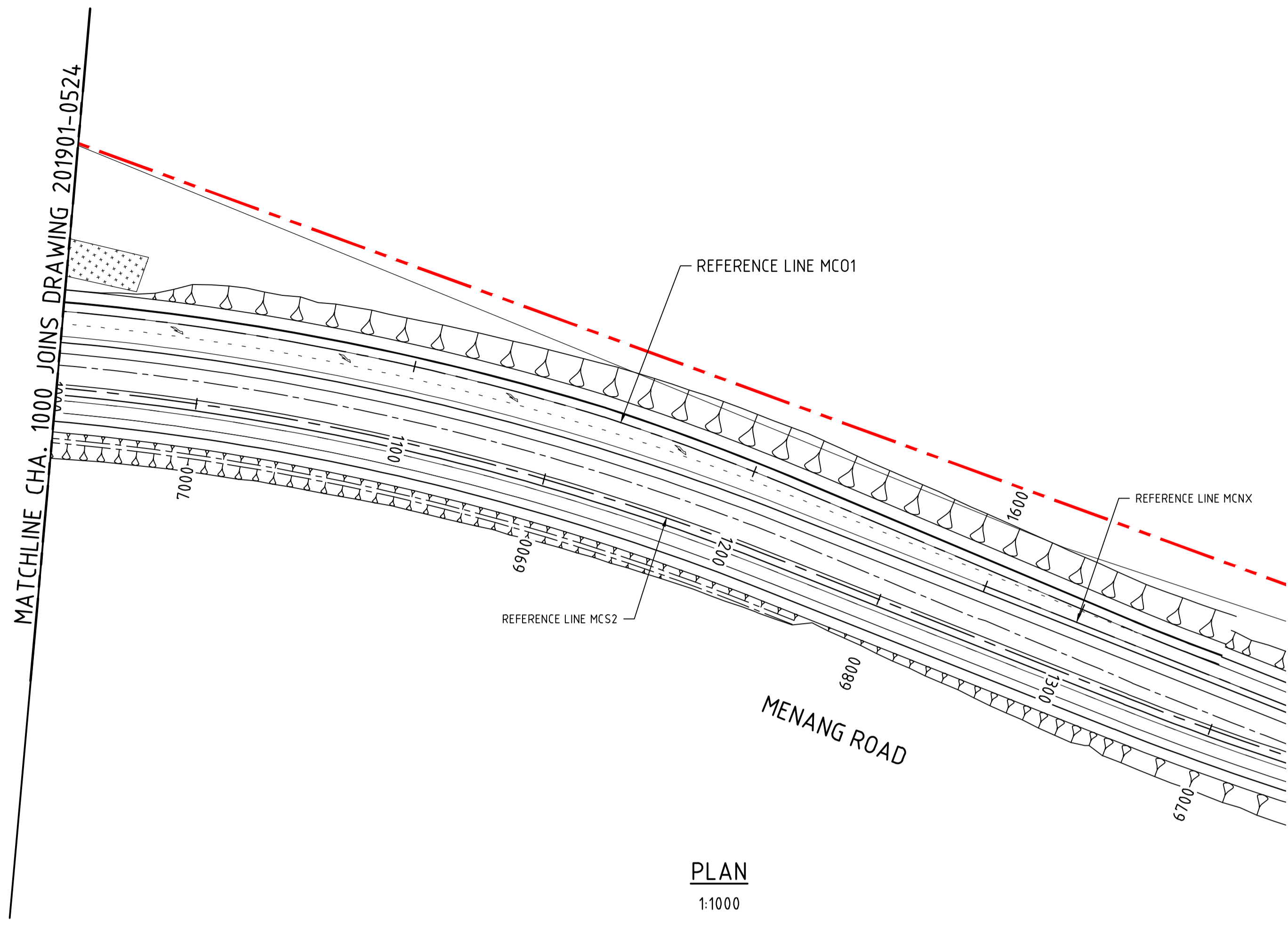
mainroads WESTERN AUSTRALIA
REGIONAL SERVICES DIRECTORATE
GREAT SOUTHERN REGION
2-6 Kelly Street ALBANY 6330
Telephone (08) 9892 0555 Fax (08) 9892 0577

MRWA FILE NUMBER
APPROVED (MRWA)
ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCO1
CHA. 400 TO CHA. 1000

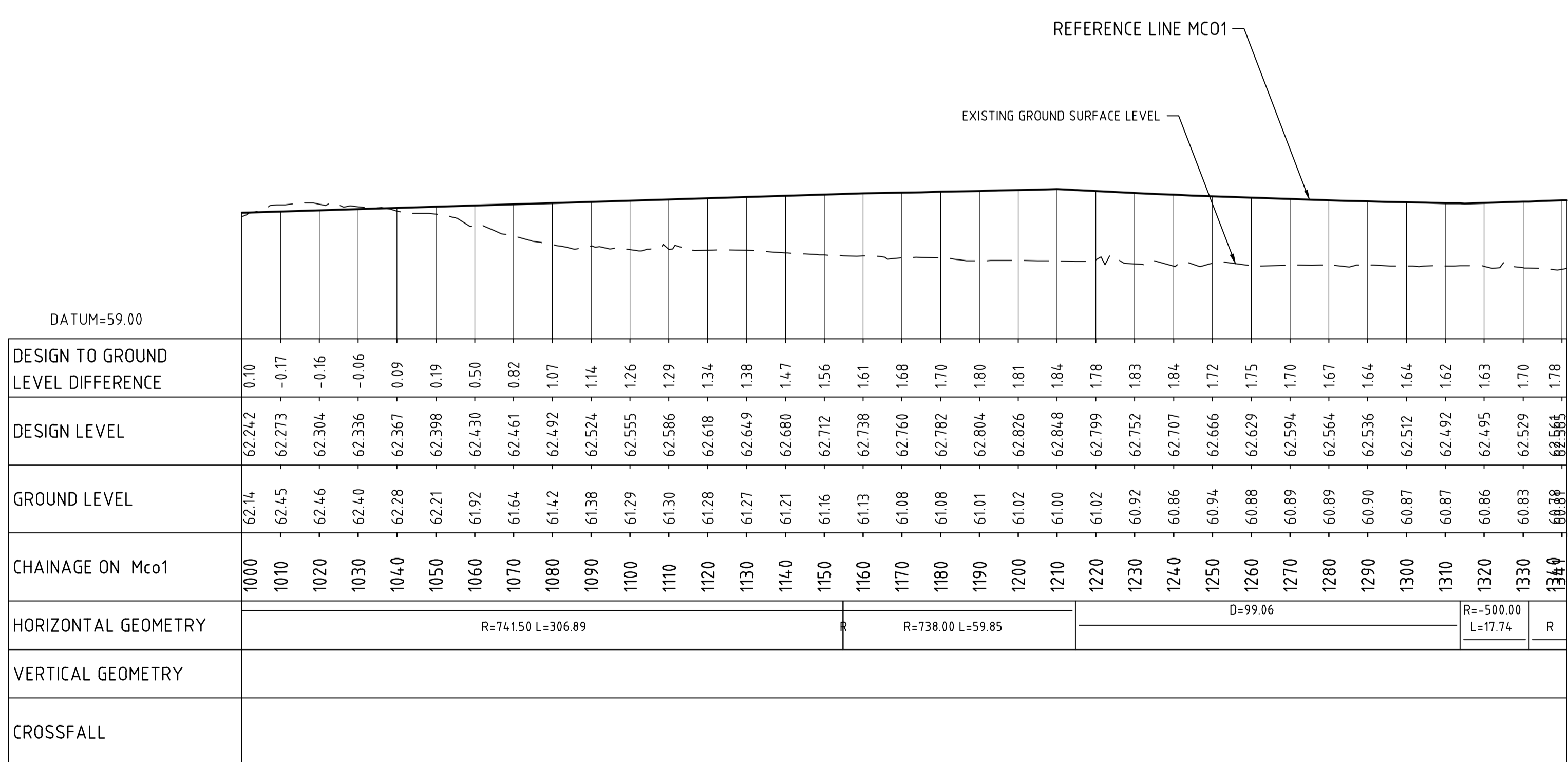
LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0524-B

PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
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METADATA

GROUND SURVEY STANDARD: 67-08-43
 DATE OF CAPTURE: VARIES
 MAPPING SURVEY STANDARD: N/A
 DATE OF CAPTURE: N/A
 MAIN ROADS PROJECT ZONE: ALB 94
 HEIGHT DATUM: AHD

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 DIRECTOR:

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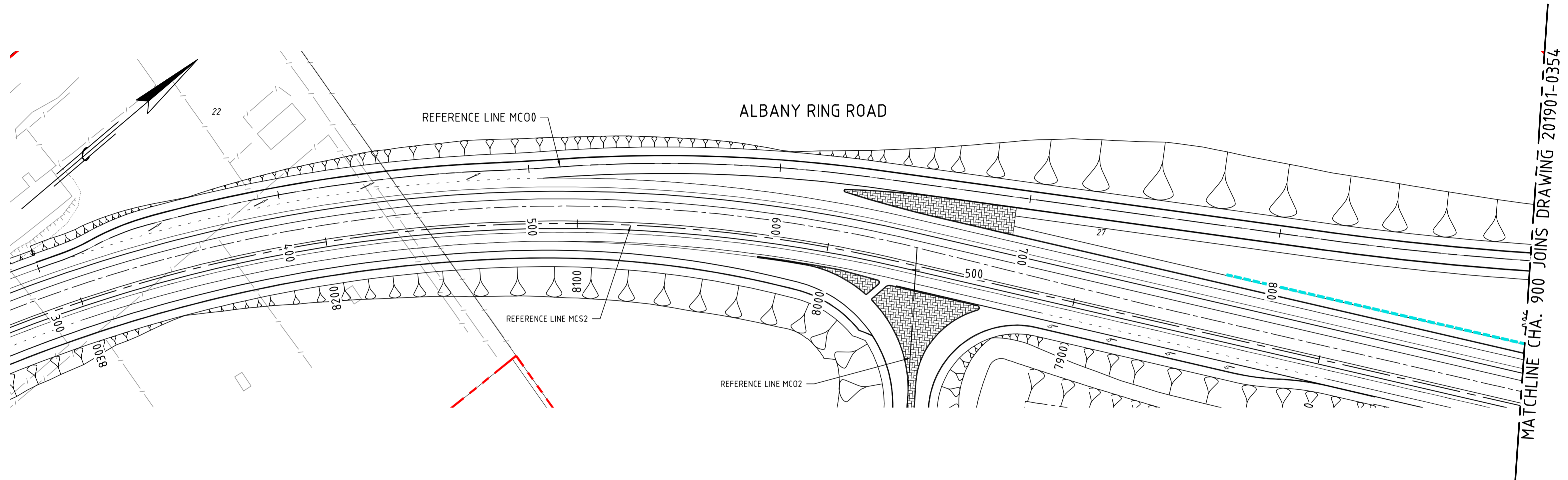
MRWA FILE NUMBER
 APPROVED (MRWA)

ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
 PLAN AND PROFILE - MCO1
 CHA. 1000 TO CHA. 1341

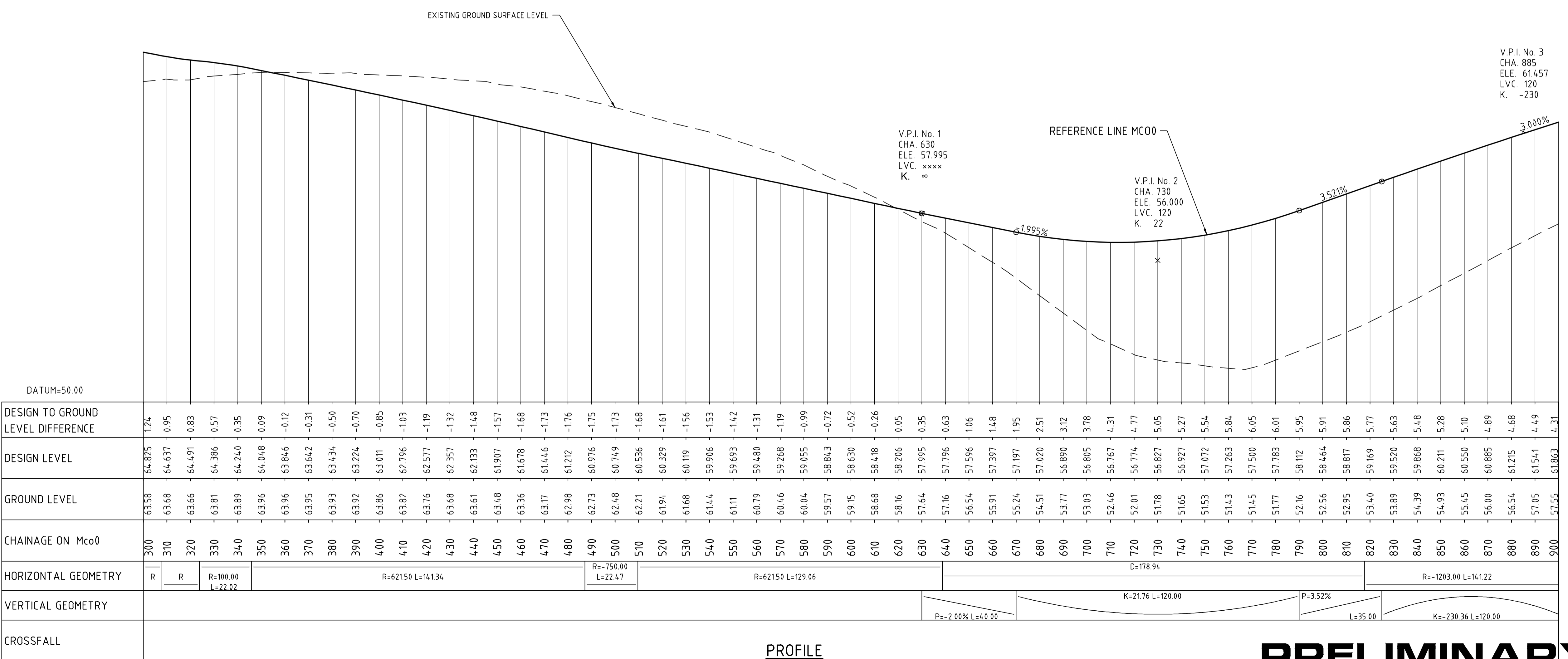
LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0525-B

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100
 HORIZ. 1:1000
 SCALES
 A 1



PLAN
1:1000



PROFILE
H 1:1000 V 1:100

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES

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- DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
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	CADASTRAL BOUNDARY
	RETAINING WALL
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METADATA	
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DATE OF CAPTURE:	VARIES
MAPPING SURVEY STANDARD:	N/A
DATE OF CAPTURE:	N/A
MAIN ROADS PROJECT ZONE:	ALB 94
HEIGHT DATUM:	AHD

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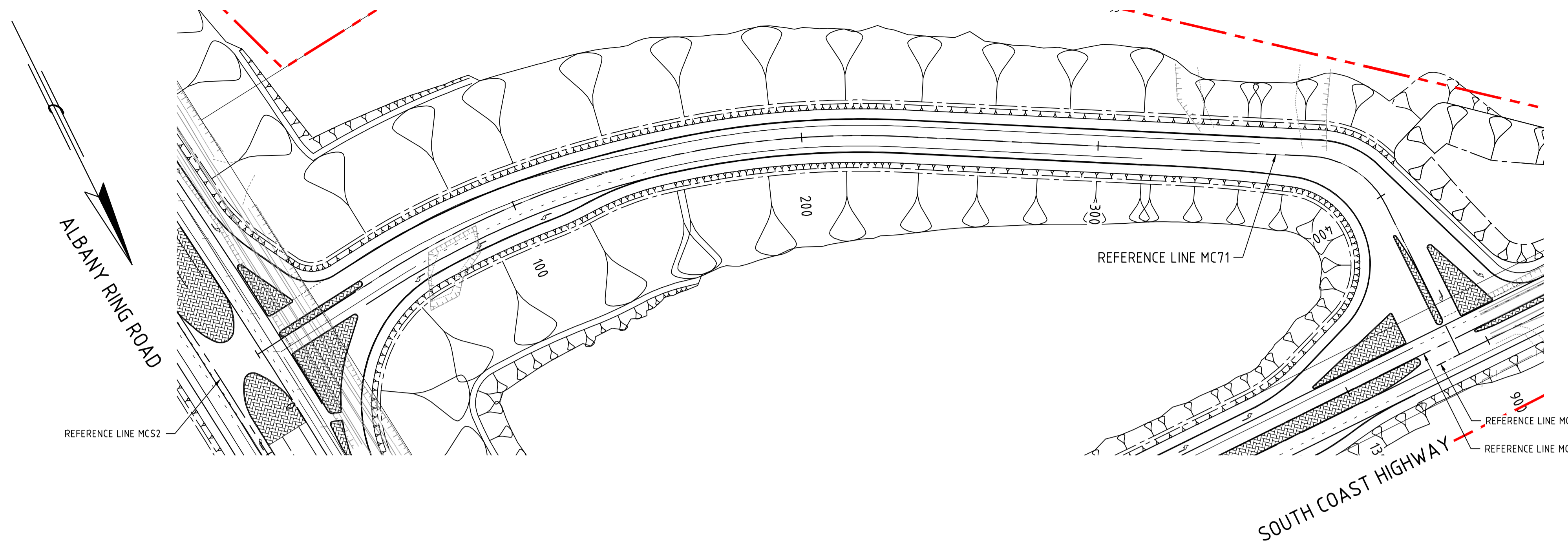
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MRWA FILE NUMBER
APPROVED (MRWA)
ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MCO0
CHA. 300 TO CHA. 900
LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0526-B

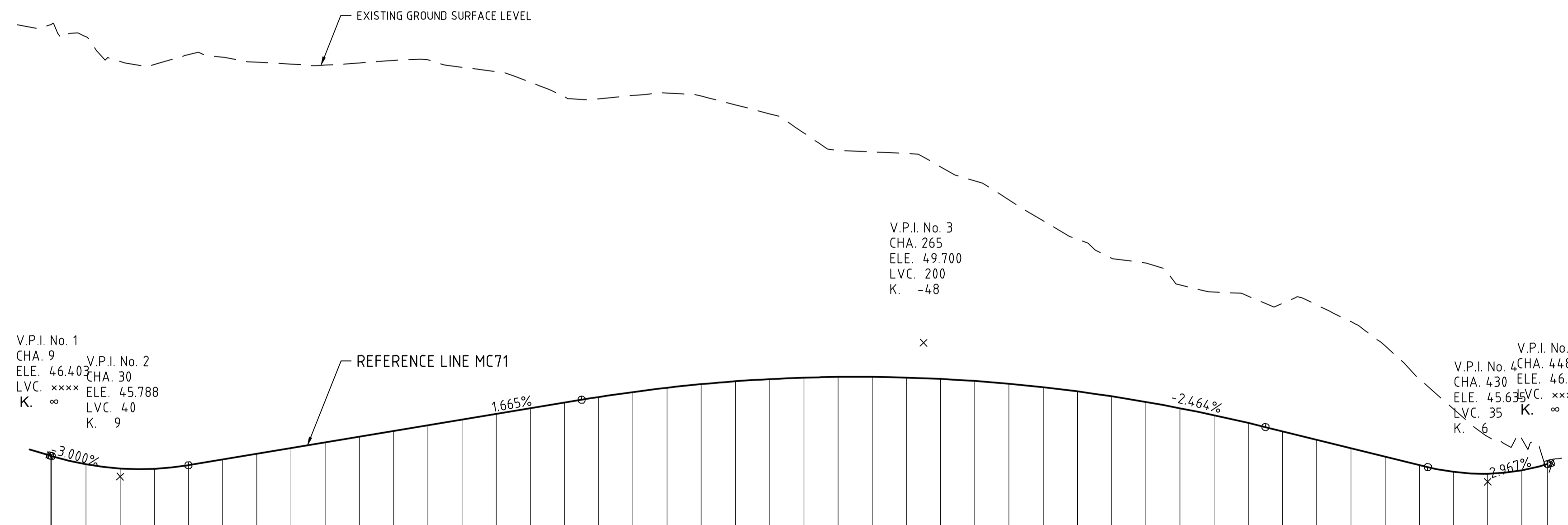
PRELIMINARY
DATE : 10 December 2019

VERT. 1:100
HORIZ. 1:1000
SCALE A 1



PLAN

1:1000



DESIGN TO GROUND LEVEL DIFFERENCE	-12.51	-11.83	-11.77	-11.23	-10.93	-10.70	-10.01	-8.94	-8.67	-8.43	-7.76	-6.63	-6.55	-5.86	-4.87	-4.04	-3.61	-3.71	-3.94	-3.24	-1.84	-0.91		
DESIGN LEVEL	-999.000	4.6146	4.6013	4.6287	4.6620	4.6953	4.7286	4.7619	4.7952	4.8282	4.8492	4.8639	4.8703	4.8685	4.8585	4.8402	4.8136	4.7888	4.7357	4.6867	4.6374	4.5925	4.5975	-999.000
GROUND LEVEL	59.00	58.66	57.84	58.05	57.86	57.89	57.98	57.63	56.89	56.93	56.92	56.40	55.33	55.24	54.44	53.27	52.18	51.39	51.06	50.81	49.61	47.76	46.89	46.08
CHAINAGE ON Mc71	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	459
HORIZONTAL GEOMETRY	D=49.70		R=300.00 L=184.60										D=137.38			R=30.00 L=31.90		D=55.86						
VERTICAL GEOMETRY	K=8.58 L=40.00		P=166% L=115.00										K=-68.45 L=200.00			P=-2.46% L=47.50		K=6.45 L=35.00						
CROSSFALL	E=0.0%																							

PROFILE

H 1:1000 V 1:100

PRELIMINARY
DATE : 10 December 2019

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 14.11.19
B	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES
1. ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
2. DRAWING TO BE PRINTED IN COLOUR.

LEGEND

	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



WARNING
SERVICES AND CADASTRAL BOUNDARY LOCATIONS SHOWN ARE ONLY INDICATIVE AND MUST NOT BE USED FOR EXCAVATION. THE "ONE CALL 1100" SYSTEM SHALL BE USED TO OBTAIN ACCURATE SERVICE LOCATIONS.

METADATA

GROUND SURVEY STANDARD: 67-08-43
DATE OF CAPTURE: VARIES
MAPPING SURVEY STANDARD: N/A
DATE OF CAPTURE: N/A
MAIN ROADS PROJECT ZONE: ALB 94
HEIGHT DATUM: AHD

GHD Level 10, 999 Hay Street Perth WA 6000
PO Box Y3106 Perth WA 6832 Australia
T (08) 6222 8222 F (08) 6222 8555
E permail@ghd.com.au www.ghd.com.au

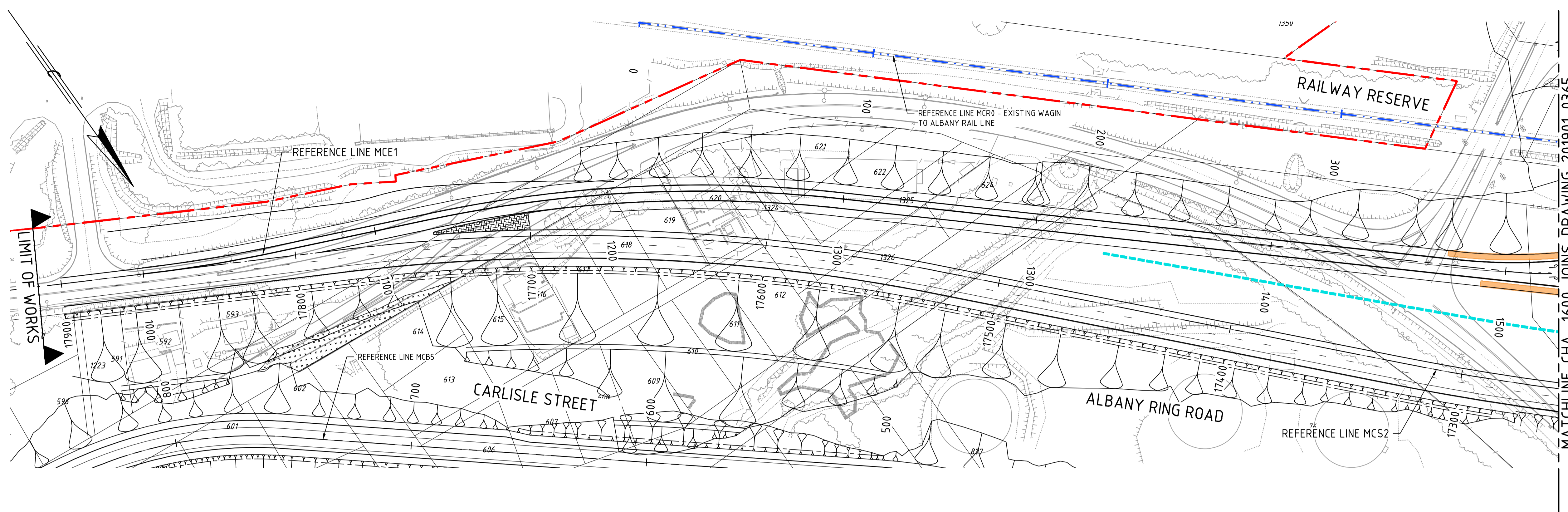
DRAWING NUMBER/DOCUMENT ID: G:\61\37157\CADD\Drawings
DESIGNED / DRAWN: V. SINAGRA / E. HARRIS
VERIFIED:
DIRECTOR:

mainroads WESTERN AUSTRALIA
REGIONAL SERVICES DIRECTORATE
GREAT SOUTHERN REGION
2-6 Kelly Street ALBANY 6330
Telephone (08) 9892 0555 Fax (08) 9892 0577

MRWA FILE NUMBER
APPROVED (MRWA)
ALBANY RING ROAD (H054)
KINJARLING ROAD TO PRINCESS ROYAL DRIVE
6.30 SLK TO 18.20 SLK
PLAN AND PROFILE - MC71
CHA. 0 TO CHA. 459

LOCAL AUTHORITY (302) CITY OF ALBANY
MRWA DRAWING NUMBER
201901-0527-B

VERT. 1:100
HORIZ. 1:1000
SCALE: A 1



PLAN
1:1000

AMENDMENTS		
No.	DESCRIPTION	APPROVED & DATE
A	ISSUED FOR CLIENT REVIEW	MB 09.12.19

NOTES
 1. ALL DIMENSIONS IN METRES UNLESS OTHERWISE SHOWN.
 2. DRAWING TO BE PRINTED IN COLOUR.

LEGEND	
	PROJECT SITE BOUNDARY
	BASE OF DRAIN
	CADASTRAL BOUNDARY
	RETAINING WALL
	NOISE WALL (TBA)
	CONCRETE BARRIER
	RAILWAY CENTRE LINE (EXISTING)
	GRADED EARTHWORKS
	SHARED PATH
	RIP AND REHABILITATE EXISTING PAVEMENT
	HARD LANDSCAPING



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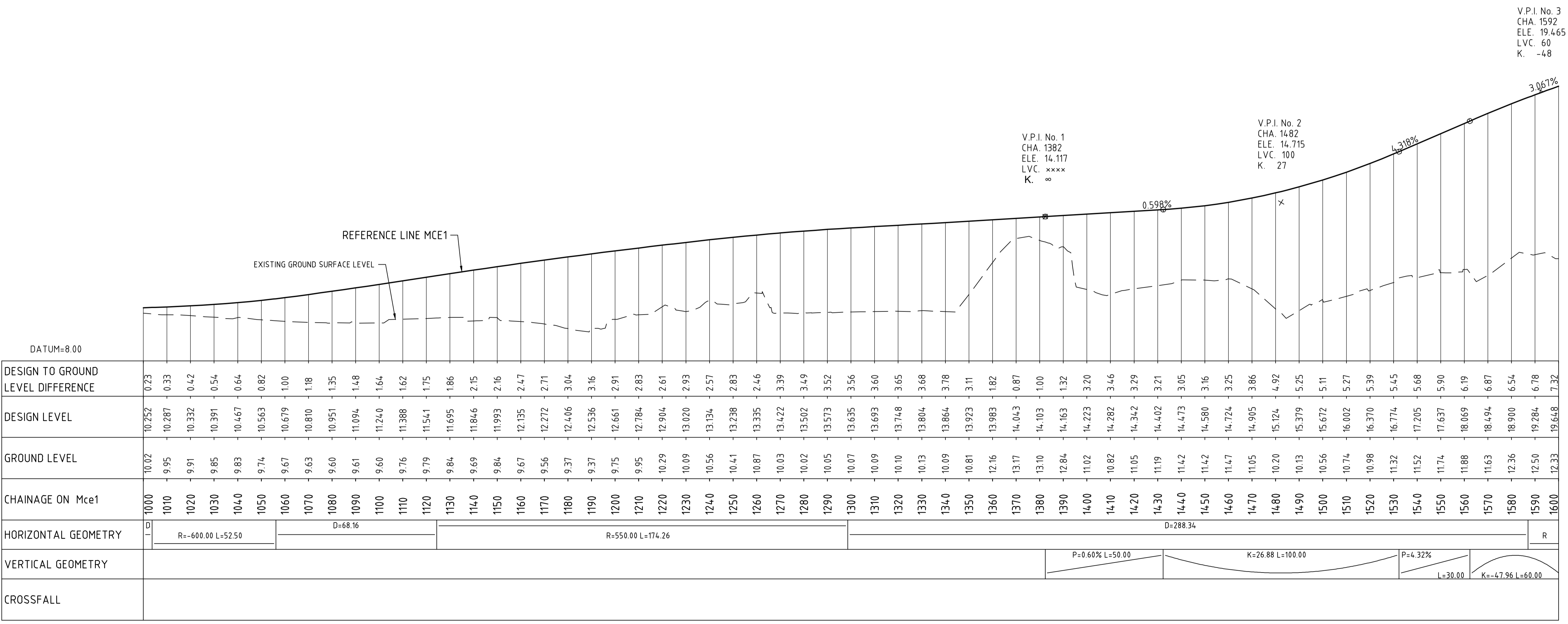
GHD Level 10, 999 Hay Street Perth WA 6000
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DRAWING NUMBER/DOCUMENT ID:	G:\61\371571\CADD\Drawings
DESIGNED / DRAWN:	V. SINAGRA / B. POCSIDIO
VERIFIED:	
DIRECTOR:	

mainroads WESTERN AUSTRALIA
 REGIONAL SERVICES DIRECTORATE
 GREAT SOUTHERN REGION
 2-6 Kelly Street Telephone (08) 9892 0555 ALBANY 6330 Fax (08) 9892 0577

MRWA FILE NUMBER
 APPROVED (MRWA)
ALBANY RING ROAD (H054)
 KINJARLING ROAD TO PRINCESS ROYAL DRIVE
 6.30 SLK TO 18.20 SLK
 PLAN AND PROFILE - MCE1
 CHA. 1000 TO CHA. 1600

LOCAL AUTHORITY (302) CITY OF ALBANY
 MRWA DRAWING NUMBER
201901-0528-B



PROFILE
H 1:1000 V 1:100

PRELIMINARY
 DATE : 10 December 2019

VERT. 1:100 HORIZ. 1:1000 SCALES A 1

Appendix C –Landowner details

DRAFT

FID	ARR Stage	LOT_TYPE	PIPARCEL	LOT_NAME	ROAD_NAME	ROAD_TYPE	SUBURB	LAND_ID_NU	LOT NUMBER	LEGAL_AREA	OWNER_NAME	DWER Classification	Comments
356	2	CROWN	P195498 1223	1223; R 30658	PRINCESS ROYAL	DR	MOUNT MELVILLE	3019040	434F	160.45	STATE OF WA		
324	2	CROWN	P183218 1324	1324; R 36047	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820595	460A	742.589	STATE OF WA		
342	2	CROWN	P183218 624	624; R 6943	GREY	ST W	MOUNT MELVILLE	1820155	311	754.924	STATE OF WA		
230	2	CROWN	P222009 591	591; V CROWN LAND (UCL)	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820123	434	827.852	STATE OF WA		
260	2	CROWN	P222009 620	620	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820152	460	971.921	COMMISSIONER OF MAIN ROADS		
279	2	CROWN	P222009 594	594	CARLISLE	ST	MOUNT MELVILLE	1820126	9	976.229	Private		
261	2	CROWN	P222009 590	590; V CROWN LAND (UCL)	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820122	430	983.152	STATE OF WA		
252	2	CROWN	P222009 589	589; V CROWN LAND (UCL)	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820121	428	984.917	STATE OF WA		
242	2	CROWN	P222009 593	593	CARLISLE	ST	MOUNT MELVILLE	1820125	19	986.746	Private		
254	2	CROWN	P222009 588	588	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820120	426	987.358	Private		
284	2	CROWN	P222009 592	592	CARLISLE	ST	MOUNT MELVILLE	1820124	17	988.047	Private		
250	2	CROWN	P222009 596	596; V CROWN LAND (UCL)	CARLISLE	ST	MOUNT MELVILLE	1820128	13	995.194	STATE OF WA		
246	2	CROWN	P222009 595	595; V CROWN LAND (UCL)	CARLISLE	ST	MOUNT MELVILLE	1820127	11	996.264	STATE OF WA		
249	2	CROWN	P222009 579	579	CARLISLE	ST	MOUNT MELVILLE	1820114	7	997.733	Private		
287	2	CROWN	P222009 619	619	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820151	458	1002.343	TOWN OF ALBANY		
256	2	CROWN	P222009 618	618	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820150	456	1011.08	TOWN OF ALBANY		
270	2	CROWN	P222009 616	616	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820148	452	1011.08	Private		
239	2	CROWN	P222009 581	581; V CROWN LAND (UCL)	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820116	416	1011.724	STATE OF WA		
240	2	CROWN	P222009 583	583; V CROWN LAND (UCL)	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820118	420	1011.724	STATE OF WA		
257	2	CROWN	P222009 580	580	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820115	414	1011.724	Private		
292	2	CROWN	P222009 582	582; V CROWN LAND (UCL)	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820117	418	1011.724	STATE OF WA		
293	2	CROWN	P222009 584	584	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820119	422	1011.724	Private		
255	2	CROWN	P222009 611	611; V CROWN LAND (UCL)	GREY	ST W	MOUNT MELVILLE	1820143	303	1011.996	STATE OF WA		
267	2	CROWN	P222009 615	615; V CROWN LAND (UCL)	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820147	450	1012.045	STATE OF WA		
289	2	CROWN	P222009 617	617; V CROWN LAND (UCL)	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820149	454	1012.045	STATE OF WA		
286	2	CROWN	P222009 610	610; V CROWN LAND (UCL)	GREY	ST W	MOUNT MELVILLE	1820142	301	1012.617	STATE OF WA		
285	2	CROWN	P222009 612	612; V CROWN LAND (UCL)	GREY	ST W	MOUNT MELVILLE	1820144	305	1013.947	STATE OF WA		
243	2	CROWN	P222009 609	609; V CROWN LAND (UCL)	GREY	ST W	MOUNT MELVILLE	1820141	299	1014.08	STATE OF WA		
266	2	CROWN	P222009 614	614; V CROWN LAND (UCL)	CARLISLE	ST	MOUNT MELVILLE	1820146	20	1014.847	STATE OF WA		
235	2	CROWN	P222009 608	608; V CROWN LAND (UCL)	GREY	ST W	MOUNT MELVILLE	1820140	297	1015.665	STATE OF WA		
229	2	CROWN	P222009 607	607; V CROWN LAND (UCL)	GREY	ST W	MOUNT MELVILLE	1820139	295	1015.895	STATE OF WA		
265	2	CROWN	P222009 613	613; V CROWN LAND (UCL)				1820145		1015.987	STATE OF WA		
291	2	CROWN	P222009 574	574; V CROWN LAND (UCL)	CASTLE	ST	MOUNT MELVILLE	1820109	7	1067.341	STATE OF WA		
233	2	CROWN	P222009 621	621	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820153	462	1069.211	COMMISSIONER OF MAIN ROADS		
280	2	CROWN	P222009 603	603; V CROWN LAND (UCL)	GREY	ST W	MOUNT MELVILLE	1820135	283	1109.359	STATE OF WA		
248	2	CROWN	P222009 578	578	CARLISLE	ST	MOUNT MELVILLE	1820113	5	1112.112	TARRA PTY LTD		
228	2	CROWN	P222009 606	606; V CROWN LAND (UCL)	GREY	ST W	MOUNT MELVILLE	1820138	293	1139.375	STATE OF WA		
347	2	CROWN	P189801 577	577	CARLISLE	ST	MOUNT MELVILLE	1820112	3	1158.059	Private		
237	2	CROWN	P222009 571	571	GREY	ST W	MOUNT MELVILLE	1820106	269	1164.125	Private		
227	2	CROWN	P222009 604	604; V CROWN LAND (UCL)	GREY	ST W	MOUNT MELVILLE	1820136	287	1177.206	STATE OF WA		
319	2	CROWN	P183218 1326	1326; V CROWN LAND (UCL)	GREY	ST W	MOUNT MELVILLE	1820597	307	1192.234	STATE OF WA		
232	2	CROWN	P222009 602	602; V CROWN LAND (UCL)	CARLISLE	ST	MOUNT MELVILLE	1820134	18	1228.921	STATE OF WA		
253	2	CROWN	P222009 598	598; V CROWN LAND (UCL)	GREY	ST W	MOUNT MELVILLE	1820130	279	1232.023	STATE OF WA		
288	2	CROWN	P222009 601	601; V CROWN LAND (UCL)	CARLISLE	ST	MOUNT MELVILLE	1820133	16	1234.121	STATE OF WA		
259	2	CROWN	P222009 599	599; V CROWN LAND (UCL)	GREY	ST W	MOUNT MELVILLE	1820131	281	1236.404	STATE OF WA		
258	2	CROWN	P222009 597	597; V CROWN LAND (UCL)	GREY	ST W	MOUNT MELVILLE	1820129	277	1236.529	STATE OF WA		

290	2	CROWN	P222009	572	572	GREY	ST W	MOUNT MELVILLE	1820107	271	1240.297	Private		
241	2	CROWN	P222009	600	600; V CROWN LAND (UCL)	CARLISLE	ST	MOUNT MELVILLE	1820132	14	1240.37	STATE OF WA		
238	2	CROWN	P222009	573	573	GREY	ST W	MOUNT MELVILLE	1820108	273	1312.634	Private		
236	2	CROWN	P222009	622	622	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820154	462	1371.302	COMMISSIONER OF MAIN ROADS		
247	2	CROWN	P222009	576	576	CARLISLE	ST	MOUNT MELVILLE	1820111	1	1391.576	Private		
231	2	CROWN	P222009	605	605; V CROWN LAND (UCL)	GREY	ST W	MOUNT MELVILLE	1820137	291	1454.598	STATE OF WA		
251	2	CROWN	P222009	568	568	GREY	ST W	MOUNT MELVILLE	1820105	292	1535.96	Private		
316	2	CROWN	P183218	1325	1325	PRINCESS ROYAL	DR	MOUNT MELVILLE	1820596	462	1628	COMMISSIONER OF MAIN ROADS		
331	2	CROWN	P171141	1156	1156				1820514		2023.2	MAINBEAM PTY LTD		
223	2	CROWN	P222500	5	5	LOWER DENMARK	RD	ROBINSON	1894784	137	2515	COLANGELO SILVESTER HOLDINGS PTY LTD		
234	2	CROWN	P222009	625	625	FESTING	ST	MOUNT MELVILLE	1820156	100	3908.188	Private		
339	2	CROWN	P184224	1350	1350; R 37011				1820610		4322.97	STATE OF WA		
272	2	CROWN	P163848	6038	6038	LOWER DENMARK	RD	MOUNT ELPHINSTONE	1988885	77	4884.825	CSBP & FARMERS LTD		
278	2	CROWN	P218550	7769	7769; Reserve 38132				1990182		5694.538	STATE OF WA		
175	2	CROWN	P129099	664	664	FESTING	ST	MOUNT MELVILLE	1820177	97	5768.655	Private		
245	2	CROWN	P159791	877	877	HANRAHAN	RD	MOUNT MELVILLE	1820286	198	11416.825	CITY OF ALBANY	29/10/18 Remediated for restricted use	Historical fuel tanks - previously CSBP Area C. Certificate of Title 1193/494 known as 877 Grey Street, Mount Melville WA, 6330
268	2	CROWN	P222006	91	91	HANRAHAN	RD	MOUNT MELVILLE	1819795	198	16075.34	CITY OF ALBANY	29/10/18 Remediated for restricted use	Historical fuel tanks - previously CSBP Area C. Certificate of Title 1654/361 known as 294 Grey Street, Mount Melville WA, 6330
190	2	CROWN	D052007	7527	7527; Reserve 38132				1989996		17079.504	STATE OF WA		
357	2	CROWN	P193311	1454	1454; R 48544	FESTING	ST	MOUNT MELVILLE	1820691	84	19738	STATE OF WA		
332	2	CROWN	P171141	1157	1157				1820515		22531.191	MAINBEAM PTY LTD		
271	2	CROWN	P222501	56	56	GEORGE	ST	GLEDHOW	1894797	116	30835.735	Private		
244	2	CROWN	P222501	57	57	CUMING	RD	GLEDHOW	1894798	456	37668.836	Private		
281	2	CROWN	P161301	895	895	WOOLSTORES	PL	MOUNT MELVILLE	1820303	34	40542.514	MAINBEAM PTY LTD		

219	2	CROWN	P222501 52	52	FREDERICK	ST	GLEDHOW	1894793	42	45676.419	Private		
274	2	CROWN	P218176 127	127; Reserve 30599				1894856		112925	STATE OF WA	08/05/2009 - Possibly contaminated - investigation required	City of Albany former landfill and cattle sales yard - Certificate of Title LR3116/179 known as 93 Roundhay Street, Gledhow WA 6330
325	2	CROWN	PLANTL 02358	PLANTAGENET Location 2358; Reserve 16969				4400100		5967091.479			
60	2	EASMT		27A/5(4)				3243382		7.443			
26	2	EASMT		27A/5(3)				3243381		100.669			
174	2	EASMT		Easement - TP&D 27A Reg 5(8 - DIA 80093)				4185426		224.714			
43	2	EASMT		Easement - doc(625 - A - DOC E765222)				4197976		402.889			
170	2	EASMT		EASEMENT - LAA 144 (300 A- DOC J529869)				3540910		603			
11	2	EASMT		14E(1)				3243377		634.516			
148	2	EASMT		Easement - TP&D 27A Reg 5(7)				4185425		769.44			
10	2	EASMT		14E(3)				3243379		769.636			
14	2	EASMT		14E(2)				3243378		884.131			
172	2	EASMT		Easement - TP&D 27A Reg 5(52)				4186213		1158.562			
6	2	EASMT		14E(4)				3243380		2062.268			
5	2	EASMT		Easement - doc (202-A-DOC F24079)				4071179		3862			
300	2	FHOLD	P413330 400	UCL; P413330 400				4341890		739	STATE OF WA		
155	2	FHOLD	P003823 6	6	OLD ELLEKER	RD	GLEDHOW	1415279	150	1821.363	BROADCAST AUSTRALIA PTY LTD		
168	2	FHOLD	P003823 7	7	OLD ELLEKER	RD	GLEDHOW	1415292	148	1821.363	BROADCAST AUSTRALIA PTY LTD		
166	2	FHOLD	P003823 5	5	OLD ELLEKER	RD	GLEDHOW	1415288	154	1936.37	BROADCAST AUSTRALIA PTY LTD		
149	2	FHOLD	P003823 4	4	OLD ELLEKER	RD	GLEDHOW	1415260	156	1990.78	BROADCAST AUSTRALIA PTY LTD		
189	2	FHOLD	P027076 141	141	WOOLSTORES	PL	MOUNT ELPHINSTONE	3024893	23	2024.79	MAINBEAM PTY LTD		

154	2	FHOLD	P003823	3	3	OLD ELLEKER	RD	GLEDHOW	1415272	158	2171.202	BROADCAST AUSTRALIA PTY LTD		
150	2	FHOLD	P003823	2	2	OLD ELLEKER	RD	GLEDHOW	1415259	160	2185.394	BROADCAST AUSTRALIA PTY LTD		
221	2	FHOLD	P048569	152	152	FRENCHMAN BAY	RD	MOUNT ELPHINSTONE	3598479	81	2189	Private		
153	2	FHOLD	P003823	1	1	OLD ELLEKER	RD	GLEDHOW	1415284	182	2797.179	BROADCAST AUSTRALIA PTY LTD		
187	2	FHOLD	D053535	10	10	WARE	RD	MOUNT ELPHINSTONE	1251270	7	2816.235	Private		
171	2	FHOLD	D025262	6	6	FRENCHMAN BAY	RD	MOUNT ELPHINSTONE	1200073	86	2903.47	Private		
330	2	FHOLD	P171141	44	44; V CROWN LAND (UCL)				3816532		3028.98	STATE OF WA		
197	2	FHOLD	P048569	153	153	FRENCHMAN BAY	RD	MOUNT ELPHINSTONE	3598480	77	4000	HSM PROPERTY PTY LTD		
110	2	FHOLD	P002012	16	16	KITSON	ST	GLEDHOW	1368634	5	4123	TIPFOAL PTY LTD		
38	2	FHOLD	D056926	1	1	LOWER DENMARK	RD	ROBINSON	1256828	141	4142.175	TEDDOG PTY LTD		
204	2	FHOLD	P072533	492	492	WOOLSTORES	PL	MOUNT ELPHINSTONE	4000672	7	4516	COMMISSIONER OF MAIN ROADS		
152	2	FHOLD	D085946	52	52	ROUNDHAY	ST	GLEDHOW	1304438	41	5418	GIMMERTON PTY LTD		
127	2	FHOLD	P002012	20	20	ROUNDHAY	ST	GLEDHOW	1368646	77	5872	Private		
144	2	FHOLD	P003569	36	36				1411315		6767	Private		
214	2	FHOLD	P035363	2	2	KITSON	ST	GLEDHOW	3303403	2	6930	Private		
186	2	FHOLD	P030388	201	201	FRENCHMAN BAY	RD	MOUNT ELPHINSTONE	3214145	64	7510	Private		
185	2	FHOLD	P030388	202	202	WARE	RD	MOUNT ELPHINSTONE	3214146	21	8021	Private		
105	2	FHOLD	P002012	15	15	ROUNDHAY	ST	GLEDHOW	1368655	64	8296	Private		
159	2	FHOLD	P003571	54	54	WOOLSTORES	PL	MOUNT ELPHINSTONE	1411342	10	9793.516	Private		
141	2	FHOLD	P003571	53	53	WOOLSTORES	PL	MOUNT ELPHINSTONE	1411366	18	10098.96	Private		
158	2	FHOLD	P003571	52	52	WOOLSTORES	PL	MOUNT ELPHINSTONE	1411359	22	10124.132	Private		
122	2	FHOLD	D099401	8	8	LOWER DENMARK	RD	MOUNT ELPHINSTONE	1331204	17	11073.273	Private		
147	2	FHOLD	P003571	58	58	FRENCHMAN BAY	RD	MOUNT ELPHINSTONE	1411367	75	11764.052	Private		
192	2	FHOLD	P048984	300	300	ROUNDHAY	ST	GLEDHOW	3540909	47	12505	MICSTE PTY LTD		
176	2	FHOLD	P028987	157	157	FRENCHMAN BAY	RD	MOUNT ELPHINSTONE	3021355	71	12965	Private		
65	2	FHOLD	D011021	6	6	LOWER DENMARK	RD	ROBINSON	1176729	389	13539.991	Private		
40	2	FHOLD	D080093	7	7	LOWER DENMARK	RD	MOUNT ELPHINSTONE	1295247	1	13977.394	Private		
222	2	FHOLD	P063836	150	150	OLD ELLEKER	RD	GLEDHOW	3856480	188	14398	Private		
137	2	FHOLD	D036714	9	9	FRENCHMAN BAY	RD	MOUNT ELPHINSTONE	1221919	70	16009.524	Private		
157	2	FHOLD	P003652	0	0				3045750		16463.035	STATE OF WA		
47	2	FHOLD	D017588	7	7	OLD ELLEKER	RD	GLEDHOW	1185773	50	17118.426	Private		
16	2	FHOLD	D017588	6	6	OLD ELLEKER	RD	GLEDHOW	1185770	62	17203.968	PCSTDN PTY LTD		
48	2	FHOLD	D017588	5	5	OLD ELLEKER	RD	GLEDHOW	1185772	64	17203.968	Private		
23	2	FHOLD	D017588	1	1	OLD ELLEKER	RD	GLEDHOW	1185771	92	17483.578	Private		
211	2	FHOLD	P072533	491	491	WARE	RD	MOUNT ELPHINSTONE	4000671	9	17496	Private		
202	2	FHOLD	D053535	11	11	WOOLSTORES	PL	MOUNT ELPHINSTONE	1251269	15	19015.436	Private		
37	2	FHOLD	D080093	5	5	LOWER DENMARK	RD	MOUNT ELPHINSTONE	1295246	49	19898.412	SOUTHWAY WA PTY LTD		
15	2	FHOLD	D017589	8	8	OLD ELLEKER	RD	GLEDHOW	1185774	40	19987.76	Private		
44	2	FHOLD	D017589	9	9	OLD ELLEKER	RD	GLEDHOW	1185776	34	20393.996	Private		
27	2	FHOLD	D017589	10	10	OLD ELLEKER	RD	GLEDHOW	1185775	28	20487.182	Private		
100	2	FHOLD	D099401	9	9	LOWER DENMARK	RD	MOUNT ELPHINSTONE	1331203	35	23651.791			

188	2	FHOLD	P027076	140	140	WOOLSTORES	PL	MOUNT ELPHINSTONE	3024892	23	23981.363	MAINBEAM PTY LTD		
207	2	FHOLD	D006189	50	50	OLD ELLEKER	RD	GLEDHOW	3589818	4	24787	SHIRE OF ALBANY		
9	2	FHOLD	D026990	13	13	OLD ELLEKER	RD	GLEDHOW	1203363	88	25805.952	Private		
173	2	FHOLD	D025399	14	14	OLD ELLEKER	RD	GLEDHOW	1200328	78	25805.952	Private		
167	2	FHOLD	D025653	2	2	OLD ELLEKER	RD	GLEDHOW	1200814	212	28029.647	Private		
32	2	FHOLD	D009412	3	3	LOWER DENMARK	RD	ROBINSON	1174676	317	30670.449	Private		
19	2	FHOLD	D077954	4	4	OLD ELLEKER	RD	GLEDHOW	1291843	278	34034.662	Private		
3	2	FHOLD	D009412	4	4	LOWER DENMARK	RD	ROBINSON	1174675	331	35014.341	Private		
28	2	FHOLD	D009412	2	2	KNIGHTS	RD	ROBINSON	1174674	22	39964.418	Private		
25	2	FHOLD	D066433	17	17	OLD ELLEKER	RD	GLEDHOW	1272452	8	41557.927	Private		
179	2	FHOLD	P026132	76	76				3014010		52350.403	CITY OF ALBANY	29/10/18 Remediated for restricted use	Historical fuel tanks - previously CSBP Area C. Certificate of Title 1193/494 known as 76 Grey Street, Mount Melville WA, 6330
156	2	FHOLD	P003569	164	164	LOWER DENMARK	RD	ROBINSON	1411323	343	57617.553	Private		
30	2	FHOLD	D011021	5	5	GLEDHOW SOUTH	RD	ROBINSON	1176725	11	59262.317	Private		
140	2	FHOLD	P003569	163	163	LOWER DENMARK	RD	ROBINSON	1411308	363	66892.155	Private		
143	2	FHOLD	P003571	30	30	FRENCHMAN BAY	RD	MOUNT ELPHINSTONE	1411347	82	69251.759	Private		
181	2	FHOLD	D052007	52	52	LOWER DENMARK	RD	ROBINSON	1248674	197	179856.777	Private		
213	2	FHOLD	P076615	202	202				4071177		181179	CITY OF ALBANY	13/03/2008 Potentially contaminated – investigation required	Hanrahan Road landfill leachate ponds
180	2	FHOLD	D052007	50	50	KNIGHTS	RD	ROBINSON	1248672	31	218515.449	Private		
191	2	FHOLD	D052007	51	51	LOWER DENMARK	RD	ROBINSON	1248673	249	342737.923	TEN YEAR DEVELOPMENTS PTY LTD		
200	2	FHOLD	P076615	201	201	HANRAHAN	RD	MOUNT ELPHINSTONE	4071176	198	1420867	CSBP LTD	12/03/2008 Potentially contaminated – investigation required	CSBP Area D (North and South)
317	2	OTHER	V CROWN LAND	UCL;					3090660		1312.052			
169	2	OTHER	A RAIL WAY	RAILWAY					3090662		54938.253			Rail
133	2	ROAD	P ROAD	Road					3158045		225.036			
86	2	ROAD	P ROAD	Road					3158048		249.156			
76	2	ROAD	P ROAD	Road					3156515		389.009			
41	2	ROAD	P ROAD	Road					3160115		474.402			
7	2	ROAD	P ROAD	Road					3160109		513.267			
98	2	ROAD	P ROAD	Road					3158378		671.844			
89	2	ROAD	P ROAD	Road					3160116		841.62			
163	2	ROAD	P ROAD	Road					3158044		1069.263			

146	2	ROAD	P ROAD	Road				3158390		1213.671		
108	2	ROAD	P ROAD	Road				3158382		1525.621		
49	2	ROAD	P ROAD	Road				3160117		1683.964		
52	2	ROAD	P ROAD	Road				3160111		1810.943		
83	2	ROAD	P ROAD	Road				3160139		1846.153		
82	2	ROAD	P ROAD	Road				3160110		1874.228		
46	2	ROAD	P ROAD	Road				3156499		2123.384		
99	2	ROAD	P ROAD	Road				3158371		2228.899		
92	2	ROAD	P ROAD	Road				3158049		2284.374		
120	2	ROAD	P ROAD	Road				3158046		2413.045		
67	2	ROAD	P ROAD	Road				3158487		2646.681		
88	2	ROAD	P ROAD	Road				3156502		2854.479		
124	2	ROAD	P ROAD	Road				3156599		3016.217		
129	2	ROAD	P ROAD	Road				3158043		3119.563		
55	2	ROAD	P ROAD	Road				3158388		3292.661		
165	2	ROAD	P ROAD	Road				3158041		3920.081		
59	2	ROAD	P ROAD	Road				3160113		3921.26		
39	2	ROAD	P ROAD	Road				3160135		3958.106		
54	2	ROAD	P ROAD	Road				3156519		4646.166		
45	2	ROAD	P ROAD	Road				3158373		4865.82		
69	2	ROAD	P ROAD	Road				3130488		4900.878		
145	2	ROAD	P ROAD	Road				3156498		4960		
97	2	ROAD	P ROAD	Road				3158377		5148		
106	2	ROAD	P ROAD	Road				3156518		5203.448		
142	2	ROAD	P ROAD	Road				3158042		5393.43		
115	2	ROAD	P ROAD	Road				3156520		5563.273		
77	2	ROAD	P ROAD	Road				3156595		5935.958		
131	2	ROAD	P ROAD	Road				3156521		6063.237		
138	2	ROAD	P ROAD	Road				3156594		6070.67		
93	2	ROAD	P ROAD	Road				3156522		6118.076		
119	2	ROAD	P ROAD	Road				3156501		6171.442		
102	2	ROAD	P ROAD	Road				3160118		6264.906		
80	2	ROAD	P ROAD	Road				3160120		7496.879		
85	2	ROAD	P ROAD	Road				3156517		7722.686		
53	2	ROAD	P ROAD	Road				3160112		7838.354		
63	2	ROAD	P ROAD	Road				3156603		8323.75		
74	2	ROAD	P ROAD	Road				3160136		8421.207		
20	2	ROAD	P ROAD	Road				3158379		9291.804		
73	2	ROAD	P ROAD	Road				3156601		9860.343		
101	2	ROAD	P ROAD	Road				3130490		10174		
212	2	ROAD	P063836	300	300			3857539		10277	STATE OF WA	
1	2	ROAD	P ROAD	Road				3156500		10689.814		
123	2	ROAD	P ROAD	Road				3158375		10778.565		
2	2	ROAD	P ROAD	Road				3160133		10905.694		
90	2	ROAD	P ROAD	Road				3156606		11056.766		
112	2	ROAD	P ROAD	Road				3156516		11103.62		
136	2	ROAD	P ROAD	LOWER DENMARK ROAD				3779087		11370.466		
125	2	ROAD	P ROAD	Road				3158383		11484.85		
160	2	ROAD	P ROAD	Road				3156593		11626.039		
118	2	ROAD	P ROAD	Road				3158381		12372.883		
78	2	ROAD	P ROAD	Road				3163695		13209.258		

94	2	ROAD	P ROAD	Road				3158481		13576.647		
132	2	ROAD	P ROAD	Road				3156496		14377.582		
96	2	ROAD	P ROAD	Road				3158380		15272.181		
111	2	ROAD	P ROAD	Road				3160137		17411.814		
22	2	ROAD	P ROAD	Road				3158486		18185.463		
116	2	ROAD	P ROAD	Road				3158484		18299.868		
126	2	ROAD	P ROAD	Road				3158384		19816.324		
130	2	ROAD	P ROAD	Road				3156596		21445.95		
91	2	ROAD	P ROAD	CUMING ROAD				3434926		26351.446		
113	2	ROAD	P ROAD	Road				3158389		30717.619		
13	2	ROAD	P ROAD	Road				3158482		32959.325		
128	2	ROAD	P ROAD	Road				3158485		36002.532		
71	2	ROAD	P ROAD	ROAD				3434932		417252.932		
277	2	SSPLN	S041165	1	LOWER DENMARK	RD	MOUNT ELPHINSTONE	3036738	45	0	Private	
326	2	SSPLN	S041165	2	LOWER DENMARK	RD	MOUNT ELPHINSTONE	3036739	47	0	Private	
327	2	SSPLN	S041165	3	LOWER DENMARK	RD	MOUNT ELPHINSTONE	3036740	35	0	D'ALESIO SUPER PTY LTD	
323	2	SSPLN	S041165	4	LOWER DENMARK	RD	MOUNT ELPHINSTONE	3036741	25	6335	Private	
220	2 & 3b	CROWN	P222501 54	54	FREDERICK	ST	GLEDHOW	1894795	20	39212.69	COMMISSIONER OF MAIN ROADS	
225	2 & 3b	CROWN	P222501 55	55	FREDERICK	ST	GLEDHOW	1894796	4	39896.515	Private	
224	2 & 3b	CROWN	P222501 53	53	FREDERICK	ST	GLEDHOW	1894794	24	45679.72	Private	
79	2 & 3b	ROAD	P ROAD	Road				3157281		12377.183		
295	3a	CROWN	P248851 8107	8107; Reserve 869				3033514		5671	STATE OF WA	
275	3a	CROWN	P230408 157	157				1985079		142854.031		
264	3a	CROWN	P248852 238	238				1985124		186964.766	Private	
273	3a	CROWN	P162414 5189	5189				1988330		225398	Private	
178	3a	CROWN	P128096 1918	1918	LANCASTER	RD	MCKAIL	1986251	322	647550.086	Private	
35	3a	EASMT		EASEMENT - DOC (11-A-DOC) N468327				4231443		560		
210	3a	EASMT		EASEMENT - DOC (11-A-DOC L16457)				3808543		11802		
4	3a	FHOLD	D065608 1	1	ALBANY	HWY	WILLYUNG	1271150	36089	2000	WATER CORPORATION	
282	3a	FHOLD	P401274 58	58	BEAUDON	RD	MCKAIL	4153370	124	9736	Private	
263	3a	FHOLD	P401274 57	57	BEAUDON	RD	MCKAIL	4153369	109	9740	Private	
262	3a	FHOLD	P401274 56	56				4153368		13418	Private	
18	3a	FHOLD	D077405 7	7	ALBANY	HWY	DROME	1290911	35906	15428.114	Private	
194	3a	FHOLD	P070052 119	119				4069948		43950	COMMISSIONER OF MAIN ROADS	
57	3a	FHOLD	D063323 7	7	KEMPTON	CL	MARBELUP	1267392	7	50110.404	Private	
56	3a	FHOLD	D060157 7	7	LINK	RD	MCKAIL	1262379	413	50812.52	Private	
183	3a	FHOLD	P029387 22	22	LINK	RD	MCKAIL	3024709	99	54321.131	COMMISSIONER OF MAIN ROADS	
84	3a	FHOLD	D060157 4	4	BEAUDON	RD	MCKAIL	1262378	108	54330.433	Private	
87	3a	FHOLD	D060157 6	6				1262383		55018.088	Private	
51	3a	FHOLD	D060157 5	5	BEAUDON	RD	MCKAIL	1262380	116	57125.106	Private	
58	3a	FHOLD	D060157 1	1	PATRICIA	CL	MCKAIL	1262377	16	62781.157	Private	
196	3a	FHOLD	P029387 28	28	ALBANY	HWY	MCKAIL	3024712	35940	70458.86	Private	
199	3a	FHOLD	P049237 107	107				3555901		102357	Private	

162	3a	FHOLD	D068451	6	6	HENDERSON	RD	DROME	1275670	30	103456.518	FISHTRACK HOLDINGS PTY LTD		
8	3a	FHOLD	D070779	9	9	ALBANY	HWY	MCKAIL	1279714	36016A	162497.537	Private		
184	3a	FHOLD	P029387	27	27				3024711		229994.211	COMMISSIONER OF MAIN ROADS		
182	3a	FHOLD	P029387	23	23				3024710		254897.456	Private		
208	3a	FHOLD	P062362	11	11	REDDALE	RD	MCKAIL	3808541	34	525837	Private		
193	3a	FHOLD	P054679	201	201	ALBANY	HWY	WILLYUNG	3685498	35895	2206092	Private		
64	3a	ROAD	P ROAD			PYUNGOORUP PLACE			4105574		2127			
66	3a	ROAD	P ROAD			BEAUDON ROAD			4153375		2145			
198	3a	ROAD	P049237	302	302				3555902		2824	STATE OF WA		
61	3a	ROAD	P ROAD			ROAD			3754792		3943.595			
72	3a	ROAD	P ROAD			Road			3157308		9900.035			
75	3a	ROAD	P ROAD			ROAD			3754793		14395.689			
134	3a	ROAD	P ROAD			LINK ROAD			3754788		19098.633			
0	3a	ROAD	P ROAD			Road			3157290		21959.839			
135	3a	ROAD	P ROAD			LINK ROAD			3754789		26054.163			
104	3a	ROAD	P ROAD			Road			3157331		31595.209			
103	3a	ROAD	P ROAD			Road			3157326		36019.694			
68	3a	ROAD	P ROAD			Road			3157332		49502.495			
109	3a	ROAD	P ROAD			Road			3157333		64970.312			
205	3a	ROAD	P049236	301	301				3555970		188977	STATE OF WA		
177	3a & 3b	CROWN	P028295	7487	7487;				3018800		47382	STATE OF WA		
206	3a & 3b	FHOLD	P048005	160	160	SOUTH COAST	HWY	MARBELUP	3530511	47894	99450	ALBANY INDUSTRIAL SERVICES PTY LTD		
36	3a & 3b	FHOLD	D063323	6	6	SOUTH COAST	HWY	MARBELUP	1267395	47898	175670.037	Private		
117	3a & 3b	ROAD	P ROAD			LINK ROAD			3754790		9881.705			
294	3b	CROWN	P092240	105	105; Reserve 32422	GEORGE	ST	GLEDHOW	1894836	50	1387	STATE OF WA	Reported unsubstantiated 24/12/2013 DWER ref DEC12240	Small DPIRD depot - leased to Forrest Products Commission
269	3b	CROWN	P222501	63	63	GEORGE	ST	GLEDHOW	1894804	106	22471.389	Private		
216	3b	CROWN	P222501	64	64	GEORGE	ST	GLEDHOW	1894805	109	33403.015	COMMISSIONER OF MAIN ROADS		
217	3b	CROWN	P222501	78	78	GEORGE	ST	GLEDHOW	1894819	52	37890.118	Private		
218	3b	CROWN	P222501	65	65	LOWANNA	DR	GLEDHOW	1894806	59	39025.686	Private		
359	3b	CROWN	P195537	96	96; Reserve 24866	GEORGE	ST	GLEDHOW	1894832	48	114238.848	STATE OF WA		City of Albany former landfill - Certificate of Title LR3037/821 known as 488 George Street, Gledhow WA 6330

358	3b	CROWN	P195537 95	95; Reserve 28465	GEORGE	ST	GLEDHOW	1894831	28	144205	STATE OF WA		City of Albany former landfill - Certificate of Title LR3037/820 known as 28 George Street, Gledhow WA 6330
226	3b	CROWN	P230520 401	401	SOUTH COAST	HWY	MARBELUP	3340546	47986	13059915	Private		
209	3b	EASMT		EASEMENT - DOC (125-A-DOC L320851)				3792745		7856			
70	3b	EASMT		EASEMENT - DOC (401-A-DOC- 926876)				3953022		36727			
283	3b	FHOLD	P401274 62	62	SOUTH COAST	HWY	MCKAIL	4153374	47796	12146	Private		
139	3b	FHOLD	D023900 3	3	SOUTH COAST	HWY	MCKAIL	1197595	47780	12774	Private		
161	3b	FHOLD	D023900 4	4	SOUTH COAST	HWY	MCKAIL	1197591	47776	13814	Private		
50	3b	FHOLD	D091628 25	25	BEAUDON	RD	MCKAIL	1315523	77	13831	Private		
164	3b	FHOLD	D023900 2	2	SOUTH COAST	HWY	MCKAIL	1197592	47790	25571	Private		
24	3b	FHOLD	D063786 8	8	LOWANNA	DR	GLEDHOW	1268224	42	39635	Private		
33	3b	FHOLD	D073169 17	17	CHARLES	ST	GLEDHOW	1283847	8	41233.474	Private		
34	3b	FHOLD	D082973 9	9				1298486		42314	Private		
29	3b	FHOLD	D073169 16	16	SOUTH COAST	HWY	GLEDHOW	1283845	47823	45369.185	Private		
31	3b	FHOLD	D073169 15	15	GEORGE	ST	GLEDHOW	1283846	11	49139.048	COMMISSIONER OF MAIN ROADS		
203	3b	FHOLD	P034605 110	110	GEORGE	ST	GLEDHOW	3269506	25	52845	Private		
121	3b	FHOLD	D067339 14	14	SOUTH COAST	HWY	GLEDHOW	1273935	47789	58097.444	HUIT PTY LTD		
201	3b	FHOLD	P016119 125	125	SOUTH COAST	HWY	MARBELUP	1682412	47917	829200.876	Private		
17	3b	ROAD	P ROAD	ROAD				3779048		18.209			
195	3b	ROAD	P048005 300	300				3530512		52	STATE OF WA		
62	3b	ROAD	P ROAD	Road				3157277		8680.826			
21	3b	ROAD	P ROAD	Road				3157285		12286.582			
151	3b	ROAD	P ROAD	Road				3157282		12731.898			
81	3b	ROAD	P ROAD	Road				3157275		12749.151			
42	3b	ROAD	P ROAD	Road				3157278		15011.562			
107	3b	ROAD	P ROAD	Road				3157286		17847.902			
12	3b	ROAD	P ROAD	Road				3157276		21541.835			
95	3b	ROAD	P ROAD	Road				3157293		36951.795			
114	3b	ROAD	P ROAD	SOUTH COAST HIGHWAY				3508927		154783.959			

DRAFT

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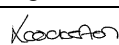
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Revision	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
A	R Walker	L Cockerton				17/01/2020

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Appendix I: Albany Ring Road Stage 2 and 3b Flood Study



Main Roads WA - ETS
Albany Ring Road - Concept Design
Flood Study

December 2019

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Appendices

Appendix A - Rainfall hyetographs used for modelling

Appendix B – Culverts included in the model

Appendix C - Pre-development flood maps

Appendix D - Post-development flood maps

Appendix E - Post-Development minus Pre-Development Flood Depth maps

Appendix F - Pre-development velocity maps

Appendix G - Post-development velocity maps