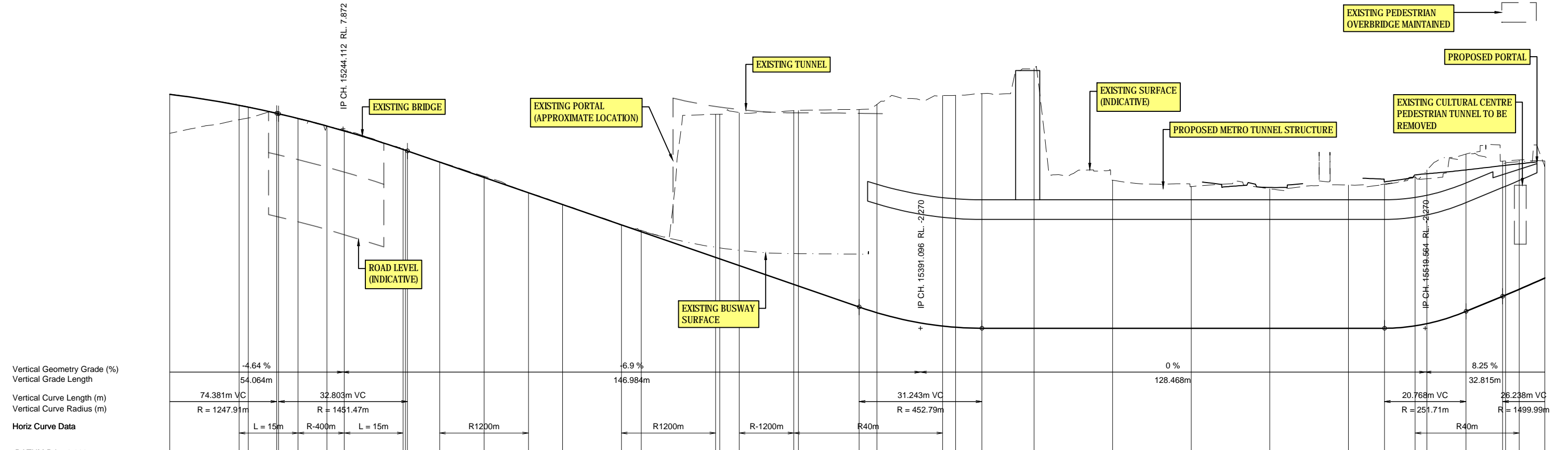
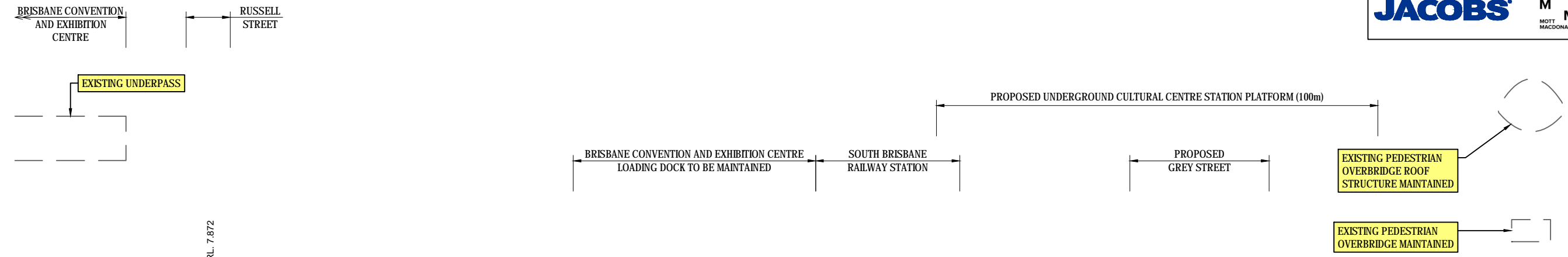


DATE: 04/04/2018 11:02:31 AM NAME: GIOVANNI VOLPI
 LOCATION: C:\BCCD\Special\Project\70833_BMSS_Brisbane_Metro_Subway_Site\JMM_Phase_101_DesignDrawings\5_Concept Design\BMSS-CR-JM-CC-DG-310201.dwg



PEGGED CHAINAGE	EXISTING SURFACE LEVEL ON CONTROL LINE	DESIGN LEVEL ON CONTROL LINE	CUT DEPTH (-)	FILL DEPTH
15200.000	7.643	9.621	1.978	
15217.663	8.336	9.062	0.726	
15220.000	8.417	8.970	0.553	
15227.239	8.667	8.655	0.012	
15227.711	8.645	8.633	0.012	
15232.663	8.382	8.395	0.012	
15240.000	7.999	8.011	0.012	
15244.415	7.795	7.762	0.033	
15259.415	6.881	6.816	0.065	
15260.000	6.825	6.776	0.050	
15260.514	6.745	6.740	0.005	
15268.696	6.192	6.176	0.016	
15280.000	5.458	5.396	0.062	
15291.302	4.607	4.616	0.009	
15300.000	4.014	4.016	0.001	
15314.959	2.964	2.983	0.020	
15320.000	2.703	2.636	0.067	
15338.952	8.608	1.328	7.280	
15340.000	8.613	1.256	7.357	
15344.965	8.681	0.913	7.768	
15358.852	8.793	-0.045	8.838	
15360.000	8.802	-0.124	8.927	
15375.474	8.848	-1.192	10.040	
15380.000	9.104	-1.482	10.586	
15396.723	9.559	-2.160	11.719	
15400.000	9.567	-2.220	11.787	
15406.717	9.654	-2.270	11.924	
15420.000	10.934	-2.270	13.204	
15440.000	5.254	-2.270	7.524	
15460.000	4.935	-2.270	7.205	
15480.000	4.819	-2.270	7.089	
15500.000	5.008	-2.270	7.278	
15509.179	5.035	-2.270	7.305	
15517.000	5.419	-2.149	7.567	
15520.000	5.328	-2.037	7.366	
15529.948	6.595	-1.413	7.998	
15539.259	6.223	-0.645	6.868	
15540.000	6.235	-0.584	6.818	
15543.493	6.289	-0.290	6.578	
15550.000	5.973	0.280	5.694	

- NOTES**
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LONGITUDINAL SECTION MCA0

PRELIMINARY

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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
A	DRAFT - MARCH	23/03/18	TAB	
B	DRAFT DESIGN REPORT	04/04/18	TAB	

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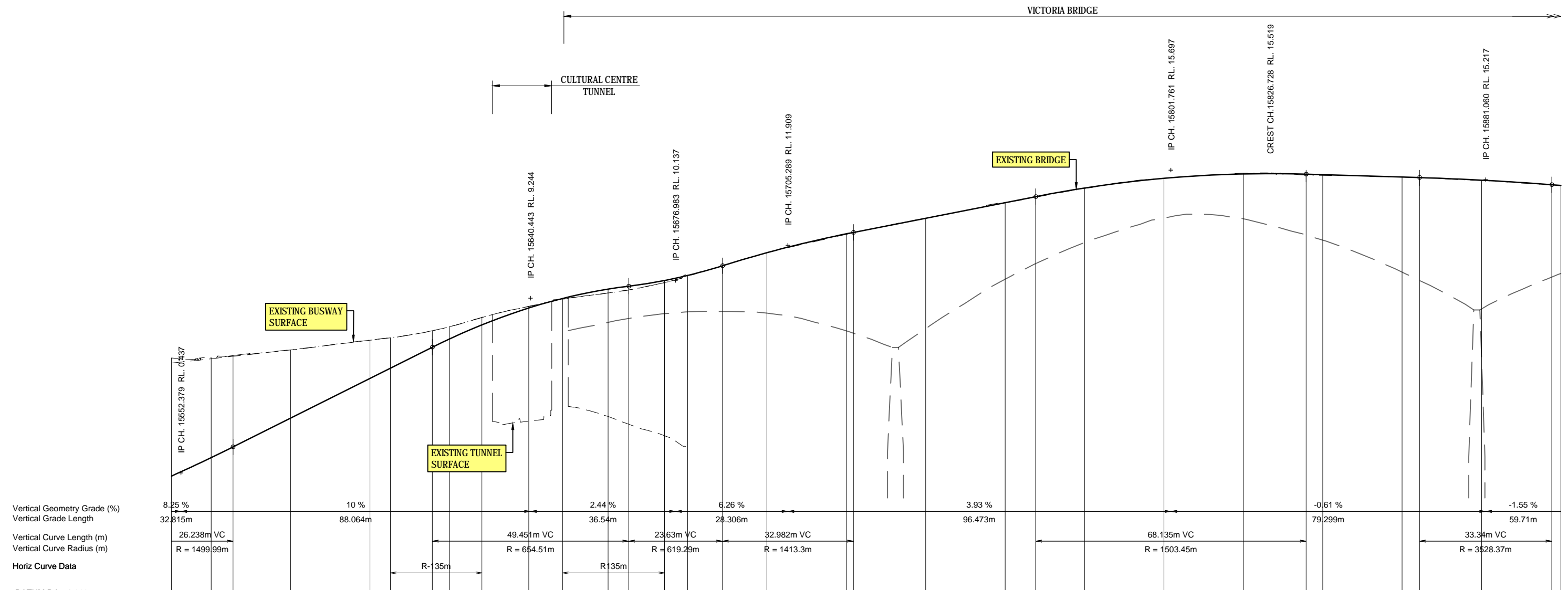
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 Scale bars:
 SCALE 1:500 @A1 SIZE SHEET
 SCALE 1:100 @A1 SIZE SHEET

BRISBANE METRO

CONCEPT DESIGN DRAWINGS
LONGITUDINAL SECTION
SHEET 1 OF 4

DESIGN	DATE	DESIGN CHECK	DATE
MWD		PM	
DRAWN	DATE	DRAWING CHECK	DATE
TAB		PP	
AUTHORISED FOR ISSUE	DATE	REFERENCE NO.	
PROJECT NUMBER / SHEET	ISSUE	SCALE	CRK: SIZE
BMSS-CR-JM-CC-DG-310201	B	H1:500 V1:100	A1

DATE: 04/02/18 11:02:33 AM NAME: GIOVANNI VOGLI LOCATION: C:\BICD\Special\Project\170353_BMSS_Brisbane_Metro_Subway_SuJMM_Phase_101_DesignDrawings\5 Concept Design\BMSS-CR-JM-CC-DG-310202.dwg



Vertical Geometry Grade (%)	Vertical Grade Length	Vertical Curve Length (m)	Vertical Curve Radius (m)	Horiz Curve Data	DATUM R.L. -6.000
8.25 %	32.815m	26.238m VC	R = 1499.99m		
10 %	88.064m			R-135m	
		49.451m VC	R = 654.51m		
2.44 %	36.54m			R-135m	
		23.63m VC	R = 619.29m		
6.26 %	28.306m				
		32.982m VC	R = 1413.3m		
3.93 %	96.473m				
		68.135m VC	R = 1503.45m		
-0.61 %	79.299m				
		33.34m VC	R = 3528.37m		
-1.55 %	59.71m				

CUT DEPTH (-)	FILL DEPTH	DESIGN LEVEL ON CONTROL LINE	EXISTING SURFACE LEVEL ON CONTROL LINE	PEGGED CHAINAGE
5.694		0.280	5.973	15550.000
	4.982	1.210	6.192	15560.000
	4.569	1.749	6.318	15565.498
	3.436	3.200	6.636	15580.000
	1.925	5.200	7.125	15600.000
	1.528	5.715	7.243	15605.151
	0.828	6.771	7.599	15615.717
	0.615	7.186	7.800	15620.000
	0.376	7.899	8.276	15628.183
	0.081	8.749	8.830	15640.000
	0.038	9.229	9.191	15648.511
	0.193	9.702	9.509	15660.000
	0.182	9.848	9.666	15665.168
	0.104	10.136	10.032	15674.225
	9.336	10.389	1.053	15680.000
		10.877		15688.798
		11.534		15700.000
		12.486		15720.000
		12.557		15721.780
		13.272		15740.000
		14.057		15760.000
		14.360		15767.694
		14.792		15780.000
		15.281		15800.000
		15.503		15820.000
		15.491		15835.829
		15.486		15840.000
		15.345		15860.000
		15.318		15864.390
		15.189		15880.000
		14.959		15897.731
		14.924		15900.000

LONGITUDINAL SECTION MCA0

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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
A	DRAFT - MARCH	23/03/18	TAB	
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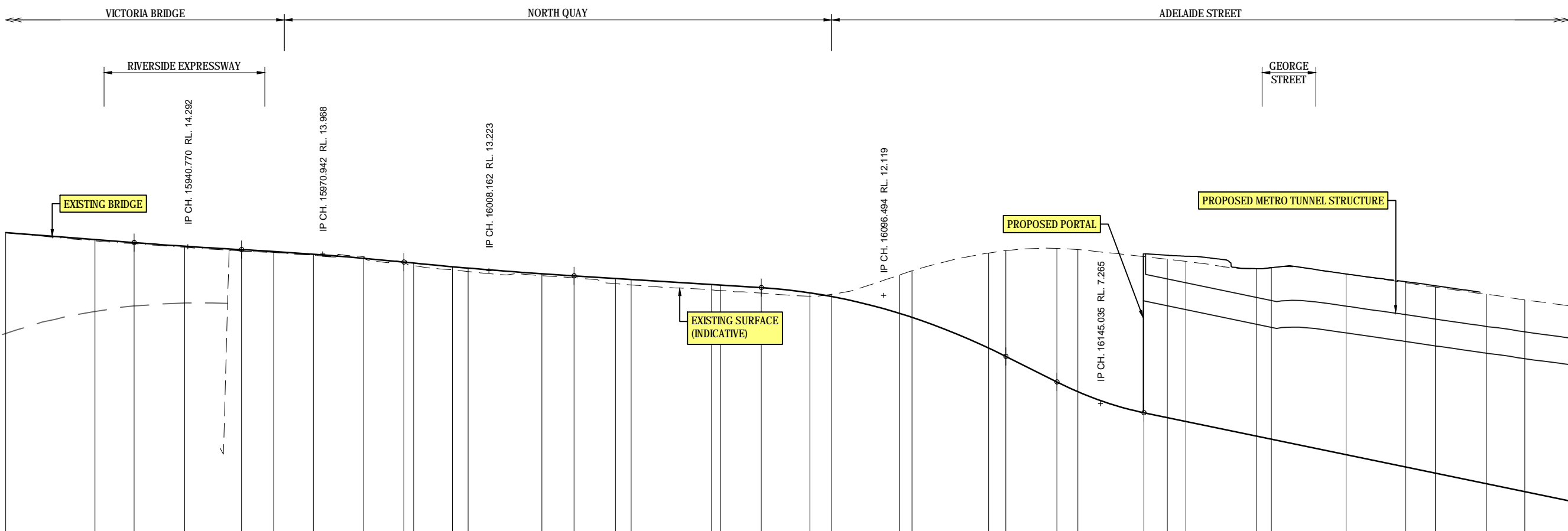
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PROJECT
BRISBANE METRO

TITLE
CONCEPT DESIGN DRAWINGS
LONGITUDINAL SECTION
SHEET 2 OF 4

DESIGN	DATE	DESIGN CHECK	DATE
MWD		PM	
DRAWN	DATE	DRAWING CHECK	DATE
TAB		PP	
AUTHORISED FOR ISSUE		DATE	REFERENCE NO.
PROJECT NUMBER / SHEET	ISSUE	SCALE	ORIG. SIZE
BMSS-CR-JM-CC-DG-310202	B	H1:500 V1:100	A1

DATE: 04/01/18 11:02:38 AM NAME: GIOVANNI VOLPI LOCATION: C:\BCCD\Special\170353_BMSS_Brisbane_Metro_Subway_Southern_Phase_101_DesignDrawings\5_Concept Design\170353_BMSS-CR-JM-CC-DG-310203.dwg



Vertical Geometry Grade (%)	Vertical Grade Length	Vertical Curve Length (m)	Vertical Curve Radius (m)	Horiz Curve Data	CUT DEPTH (-)	FILL DEPTH	DESIGN LEVEL ON CONTROL LINE	EXISTING SURFACE LEVEL ON CONTROL LINE	PEGGED CHAINAGE
-1.55 %	59.71m	24.029m VC	R = 5017.13m	R-100m			14.924	15900.000	15900.000
-1.07 %	30.172m	36.315m VC	R = 3905.14m	R-17.75m	0.059	0.041	14.614	15920.000	15920.000
-2 %	37.22m	38.124m VC	R = 5075.19m	R-50m	0.043	0.072	14.478	15928.755	15928.755
-1.25 %	88.332m			R-150m	0.012	0.113	14.316	15939.970	15939.970
-10 %	48.541m			R16.5m	0.140	0.158	14.316	15940.000	15940.000
-4.15 %	219.706m			R150m	0.158	0.083	14.163	15962.785	15962.785
				R200m	0.081	0.230	14.079	15960.000	15960.000
				R-200m	0.244	0.241	13.957	15968.865	15968.865
					0.239	0.239	13.776	15980.000	15980.000
					0.151	0.244	12.870	15989.100	15989.100
					0.095	0.158	12.825	15991.308	15991.308
					1.711	2.085	12.067	16000.000	16000.000
					4.256	4.739	12.087	16003.505	16003.505
					5.978	6.364	12.087	16020.000	16020.000
					6.992	6.992	11.314	16027.224	16027.224
					7.090	7.164	11.130	16036.463	16036.463
					7.487	7.695	9.757	16040.000	16040.000
					8.091	8.488	9.382	16057.989	16057.989
					8.251	8.333	8.239	16060.000	16060.000
					8.488	8.589	7.802	16069.126	16069.126
					8.744	8.744	6.861	16080.000	16080.000
							6.644	16084.862	16084.862
							6.471	16100.000	16100.000
							5.814	16102.864	16102.864
							5.678	16120.000	16120.000
							4.984	16123.863	16123.863
							4.430	16140.000	16140.000
							4.154	16154.773	16154.773
							3.681	16160.000	16160.000
							3.324	16164.164	16164.164
							2.909	16183.289	16183.289
								16200.000	16200.000
								16213.364	16213.364
								16220.000	16220.000
								16231.413	16231.413
								16240.000	16240.000
								16250.000	16250.000

NOTES

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LONGITUDINAL SECTION MCA0

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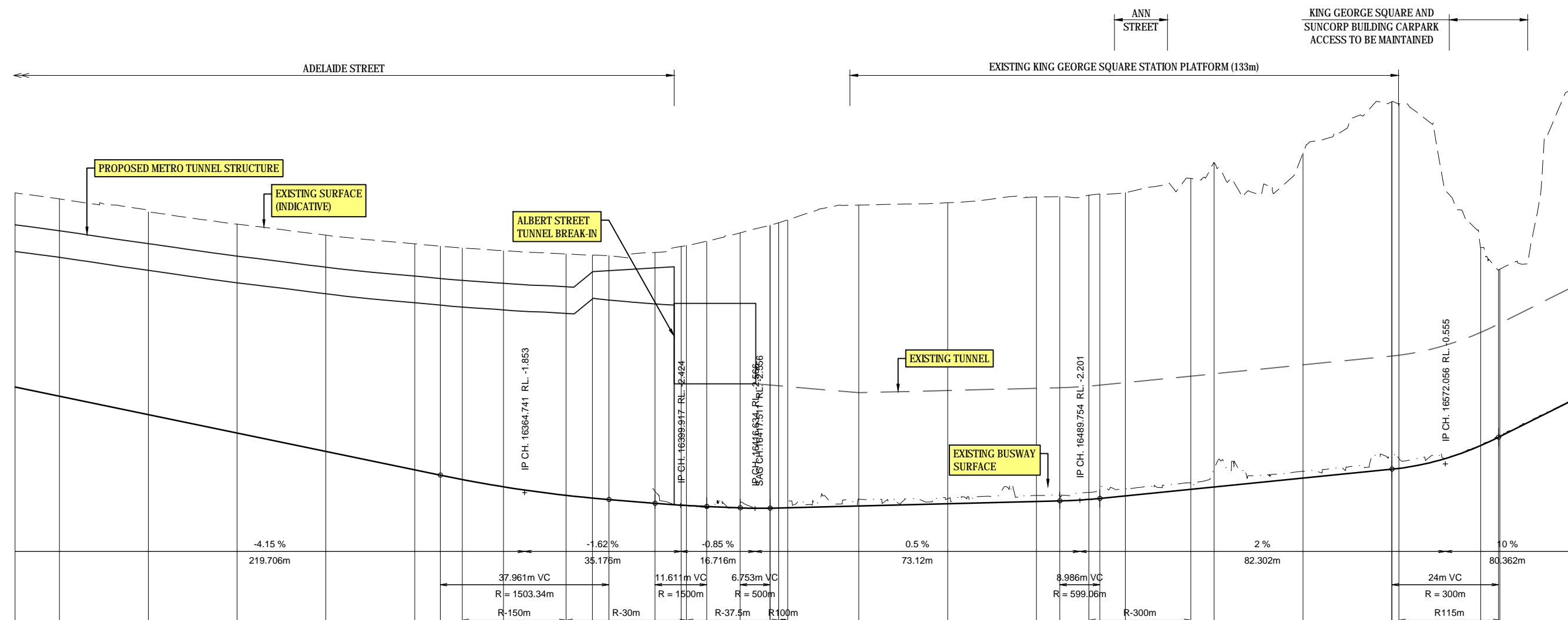
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BRISBANE METRO

CONCEPT DESIGN DRAWINGS
LONGITUDINAL SECTION
SHEET 3 OF 4

DESIGN	DATE	DESIGN CHECK	DATE
MWD		PM	
DRAWN	DATE	DRAWING CHECK	DATE
TAB		PP	
AUTHORISED FOR ISSUE		DATE	REFERENCE NO.
PROJECT NUMBER / SHEET	ISSUE	SCALE	CRK: SIZE
BMSS-CR-JM-CC-DG-310203	B	H1:500 V1:100	A1

DATE: 04/02/18 11:02:39 AM NAME: GIOVANNI VOGLI LOCATION: C:\BCCD\Special\Project\70833_BMSS_Brisbane_Metro_Subway_SuJMM_Phase_101_DesignDrawings\5 Concept Design\BMSS-CR-JM-CC-DG-310201.dwg



Vertical Geometry Grade (%)	Vertical Grade Length	Vertical Curve Length (m)	Vertical Curve Radius (m)	Horiz Curve Data	DATUM R.L. -9.000
-4.15 %	219.706m				
-1.62 %	35.176m	37.961m VC R = 1503.34m		R-150m	
-0.85 %	16.716m	11.611m VC R = 1500m		R-30m	
0.5 %	73.12m	6.753m VC R = 500m		R-37.5m	
2 %	82.302m	8.986m VC R = 599.06m		R-100m	
10 %	80.362m	24m VC R = 300m		R-300m	
				R115m	

CUT DEPTH (-)	FILL DEPTH	DESIGN LEVEL ON CONTROL LINE	EXISTING SURFACE LEVEL ON CONTROL LINE	PEGGED CHAINAGE
8.744		2.909	11.653	16250.000
	8.885	2.494		16260.000
		1.664		16280.000
	9.409	0.634		16300.000
		0.004		16320.000
	10.185	-0.826		16340.000
	10.313	-1.065		16345.760
	10.433	-1.262		16350.713
	10.635	-1.588		16360.000
	10.875	-1.973		16374.069
	10.946	-2.096		16380.000
	10.983	-2.161		16383.722
	11.298	-2.330		16394.112
	11.708	-2.414		16400.000
	11.946	-2.428		16401.188
	12.389	-2.473		16405.723
	12.741	-2.538		16413.257
	12.742	-2.549		16420.000
	12.848	-2.549		16420.011
	12.965	-2.540		16421.943
	13.554	-2.530		16423.966
	13.557	-2.449		16440.000
	13.717	-2.349		16460.000
	13.707	-2.223		16485.260
	13.708	-2.154		16491.820
	13.710	-2.111		16494.247
	13.655	-1.986		16500.000
	14.003	-1.701		16514.744
	14.621	-1.596		16520.000
	14.632	-1.196		16540.000
	16.552	-0.796		16560.000
	16.556	-0.795		16560.056
	16.425	-0.760		16561.600
	8.920	0.267		16590.000
	7.541	0.645		16594.056
	7.543	0.675		16594.351
	14.003	2.240		16600.000

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BRISBANE METRO

CONCEPT DESIGN DRAWINGS
LONGITUDINAL SECTION
SHEET 4 OF 4

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MWD		PM	
DRAWN	DATE	DRAWING CHECK	DATE
TAB		PP	
AUTHORISED FOR ISSUE	DATE	REFERENCE NO.	
PROJECT NUMBER / SHEET	ISSUE	SCALE	CRK: SIZE
BMSS-CR-JM-CC-DG-310204	B	H1:500 V1:100	A1