

Asphaltic Concrete Notes											
<u>General</u>											
AC1	Asphaltic concrete mix design, manufacture, placing and compaction shall be in accordance with RMS Specification R116-Asphalt (dense graded and open graded) and AS2150-2005 - Hot Mix Asphalt - A Guide To Good Practice, Annexure R116/1 to be completed by subcontractor and submitted for approval by superintendent 7 days prior to AC works.										
AC2	Mineral filler to comply with AS2150 - 2005 - Hot Mix Asphalt - A Guide to Good Practice.										
<u>Mix proportions</u>											
AC3	Job mix - 7mm nominal size aggregate. Minimum bitumen content (%) by (mass of total mass) - 5.1%.										
AC4	Mix stability - between 16kn and 36kn as determined by RMS test method T601 - Compaction of test specimens of dense grade bituminous mixtures and T603 - Stability of dense grade bituminous mixtures.										
AC5	Air voids in compacted mix - between 4% of volume and 7% of the mix. Voids filled in binder. 65-80% of air voids in the total mineral aggregate filled by binder in accordance with RMS test method T601 - Compaction of test specimens of dense grade bituminous mixtures, T605 - Maximum density of bituminous plant mix and T606 - Bulk density of compacted dense graded bituminous mixtures.										
<u>Pavement preparation</u>											
AC6	The existing surface to be sealed, shall be dry and broomed before commencement of work to ensure complete removal of all superficial foreign and loose matter.										
AC7	All depressions or uneven areas are to be tack-coated and brought up to general level of pavement with asphaltic concrete before laying of main course.										
<u>Tack coat</u>											
AC8	The whole of the area to be sheeted with asphaltic concrete shall be lightly and evenly coated with rapid setting bitumen. Application rate for residual bitumen shall be 0.15 to 0.30 litres/square metre. Application shall be by means of a mechanical sprayer with spray bar.										
<u>Spreading</u>											
AC9	All asphaltic concrete shall be spread with a self propelled paving machine.										
AC10	The asphaltic concrete shall be laid at a mix temperature as shown below - <table><tr><td>road surface temp in shade (°c)</td><td>mix temperatures (°c)</td></tr><tr><td>5 - 10</td><td>not permitted</td></tr><tr><td>10 - 15</td><td>150</td></tr><tr><td>15 - 25</td><td>145</td></tr><tr><td>25+</td><td>140</td></tr></table>	road surface temp in shade (°c)	mix temperatures (°c)	5 - 10	not permitted	10 - 15	150	15 - 25	145	25+	140
road surface temp in shade (°c)	mix temperatures (°c)										
5 - 10	not permitted										
10 - 15	150										
15 - 25	145										
25+	140										
AC11	Asphaltic concrete shall not be laid when the road surface is wet or when cold winds chill the mix to adversely affect temperature of mix during spreading and compaction operations.										
AC12	The minimum compacted thickness is 50mm in two (2) layers.										
<u>Joints</u>											
AC13	The number of joints both longitudinal and transverse shall be kept to a minimum.										
AC14	The density and surface finish at joints shall be similar to those of the remainder of the layer.										
<u>Compaction</u>											
AC15	All compaction shall be undertaken using self propelled rollers.										
AC16	Initial rolling shall be completed before the mix temperature falls below 105°c.										
AC17	Secondary rolling shall be completed before the mix temperature falls below 60°c.										
AC18	Minimum characteristic value of relative compaction of a lot when tested in accordance with AS2150 - 2005 - Hot mix asphalt - a guide to good practice shall be 95%.										
<u>Finished pavement properties</u>											
AC19	Finished surfaces shall be smooth, dense and true to shape and shall not vary more than 10mm from the specified plan level at any point and shall not deviate from the bottom of a 3m straight edge laid in any direction by more than 5mm.										


Linemarking Notes	
LM1	All linemarking works to be in accordance with either the current Australian standard AS1742.2-2009-Manual Uniform Traffic Control Devices, or as shown on the plans or as directed by the superintendent.
LM2	The scope of work shall include all pavement markings to roads and carpark.
LM3	The work carried out and testing performed shall comply with the current, relevant Australian standards and RMS standards where necessary.
LM4	All markings shall be spotted out and verified by the contractors representative prior to application.
LM5	Paint shall be applied at a wet thickness of between 0.35mm - 0.45mm.
LM6	Paint shall only be applied to clean and dry surfaces.
LM7	All longitudinal lines shall be applied by a self-propelled machine.
LM8	Linemarking removal shall be carried out by grinding or sandblasting. Removal by burning will not be permitted.
LM9	The extent of linemarking to be eradicated shall be confirmed on site prior to removal. Any markings incorrectly removed shall be reinstated at the contractor's expense.
LM10	All markings shall be completed in a workmanlike manner and be straight, smooth and with even curves. Any non-conforming work, shall be removed and reinstated at the direction of the superintendent at the contractor's expense.
LM11	Linemarking on AC pavements to be provided no sooner than 7-10 days once the asphalt has set.

Notes

Key to symbols

Reference drawings

02	15.04.15	ADS	Issued for DA Approval	GC	CJA
01	10.02.15	ADS	Re-issued for Tender	GC	CJA
0	19.12.14	AMP	Issued for Tender	GC	CJA
P3	23.07.14	DW	Issued for DA	GC	X
P2	14.07.14	ADS	Re-issued for information	GC	X
P1	02.06.14	AMP	Issued for information	GC	X
Rev	Date	Drawn	Description	Ch'k'd	App'd



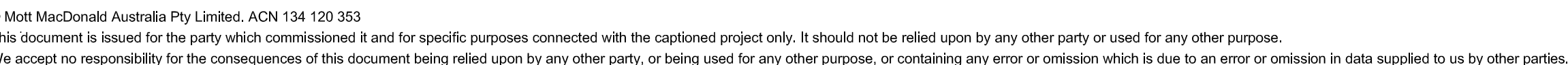
Level 10, 383 Kent Street
Sydney NSW 2000
Australia
PO Box Q1678
QVB Sydney NSW 1230
T +61 (0)2 9098 6800
F www.mottmac.com.au


Client
Anglicare Chesalon

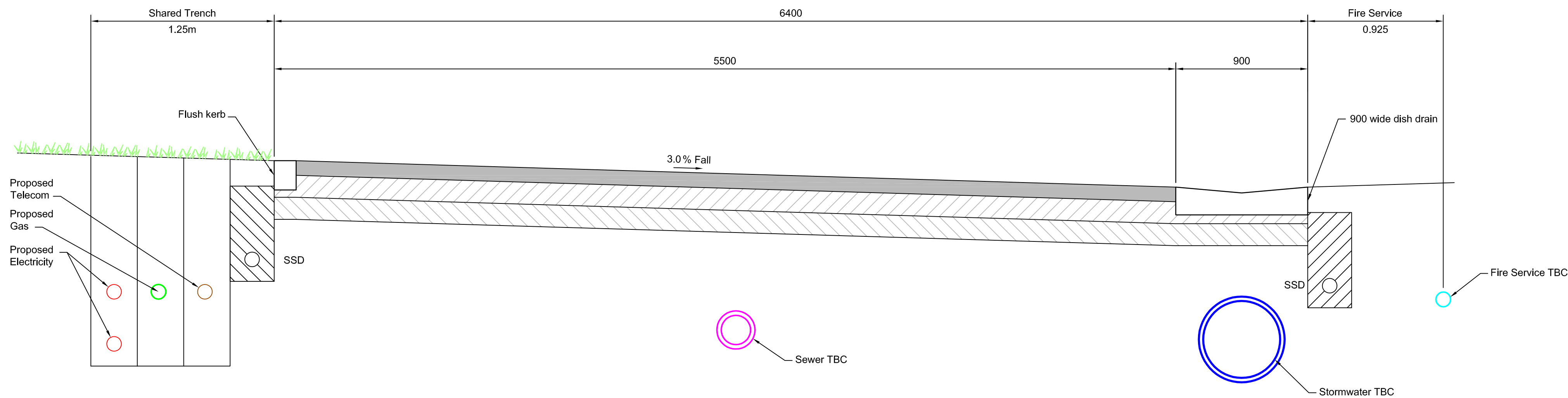
Title
Oran Park - Anglicare Chesalon
Infrastructure Package
Stage 3 Civil Works
Notes and Legends Sheet 2

Designed	G Collins	.	Eng check	J Toth	.
Drawn	A Paciben	.	Coordination	J Gilligan	.
Dwg check	G Collins	.	Approved	C Avis	.
Scale at A1 NTS		Status APR		Rev 02	

Drawing Number
MMD-335517-C-DR-00-XX-1102



Notes						
Key to symbols						
Reference drawings						
03	15.04.15	ADS	Issued for DA Approval	GC	CJA	
02	31.03.15	AMP	Issued for Revised Tender	GC	CJA	
01	10.02.15	ADS	Re-issued for Tender	GC	CJA	
0	19.12.14	AMP	Issued for Tender	GC	CJA	
P4	16.10.14	ADS	Re-issued for DA	GC	X	
P3	23.07.14	DW	Issued for DA	GC	X	
P2	14.07.14	ADS	Re-issued for information	GC	X	
P1	02.06.14	AMP	Issued for information	GC	X	
Rev	Date	Drawn	Description	Ch'k'd	App'd	
 <div style="float: right; text-align: right; font-size: small;"> Level 10, 383 Kent Street Sydney NSW 2000 Australia PO Box Q1678 QVB Sydney NSW 1230 T +61 (0)2 9098 6800 F www.mottmac.com.au </div>						
<div style="display: flex; justify-content: space-between;"> <div> <p>Client</p> <p style="font-size: large;">Anglicare Chesalon</p> </div> </div>						
<div style="display: flex; justify-content: space-between;"> <div> <p>Title</p> <p style="font-size: large;">Oran Park - Anglicare Chesalon Infrastructure Package Stage 3 Civil Works Alignment Control Plan</p> </div> </div>						
Designed	G Collins	.	Eng check	J Toth	.	
Drawn	A Paciben	.	Coordination	J Gilligan	.	
Dwg check	G Collins	.	Approved	C Avis	.	
Scale at A1		Status		Rev		
1:250		APR		03		
Drawing Number						
MMD-335517-C-DR-00-XX-1105						



Typical Road Cross Section
5.5m Road Width With Dish Drain
MC13

Notes

Key to symbols

Reference drawings

02	15.04.15	ADS	Issued for DA Approval	GC	CJA
01	10.02.15	ADS	Re-issued for Tender	GC	CJA
0	19.12.14	AMP	Issued for Tender	GC	CJA
P3	23.07.147	DW	Issued for DA	GC	X
P2	14.07.14	ADS	Re-issued for information	GC	X
P1	02.06.14	AMP	Issued for information	GC	X
Rev	Date	Drawn	Description	Ch'k'd	App'd



Level 10, 383 Kent Street
Sydney NSW 2000
Australia
PO Box Q1678
QVB Sydney NSW 1230
t +61 (0)2 9098 6800
f
www.mottmac.com.au

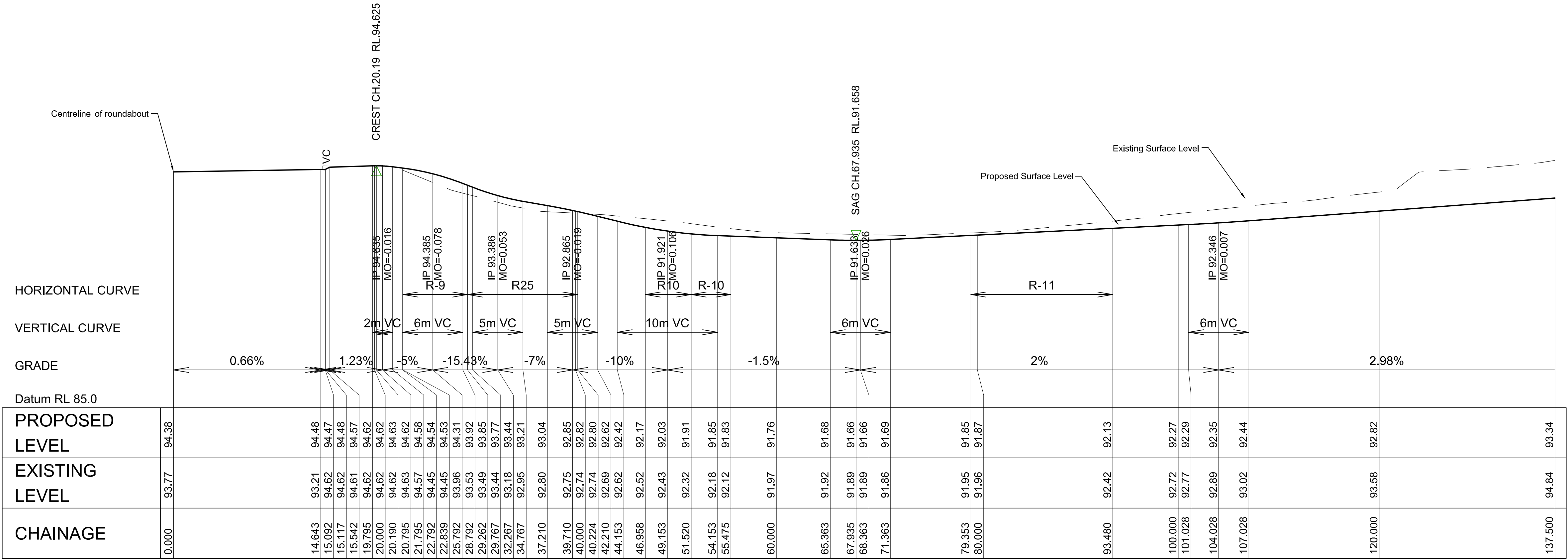
Client
Anglicare Chesalon

Title
Oran Park - Anglicare Chesalon
Infrastructure Package
Stage 3 Civil Works
Typical Road Coss Sections

Designed	G Collins	.	Eng check	J Toth	.
Drawn	A Paciben	.	Coordination	J Gilligan	.
Dwg check	G Collins	.	Approved	C Avis	.
Scale at A1	1:250	Status	APR	Rev	02

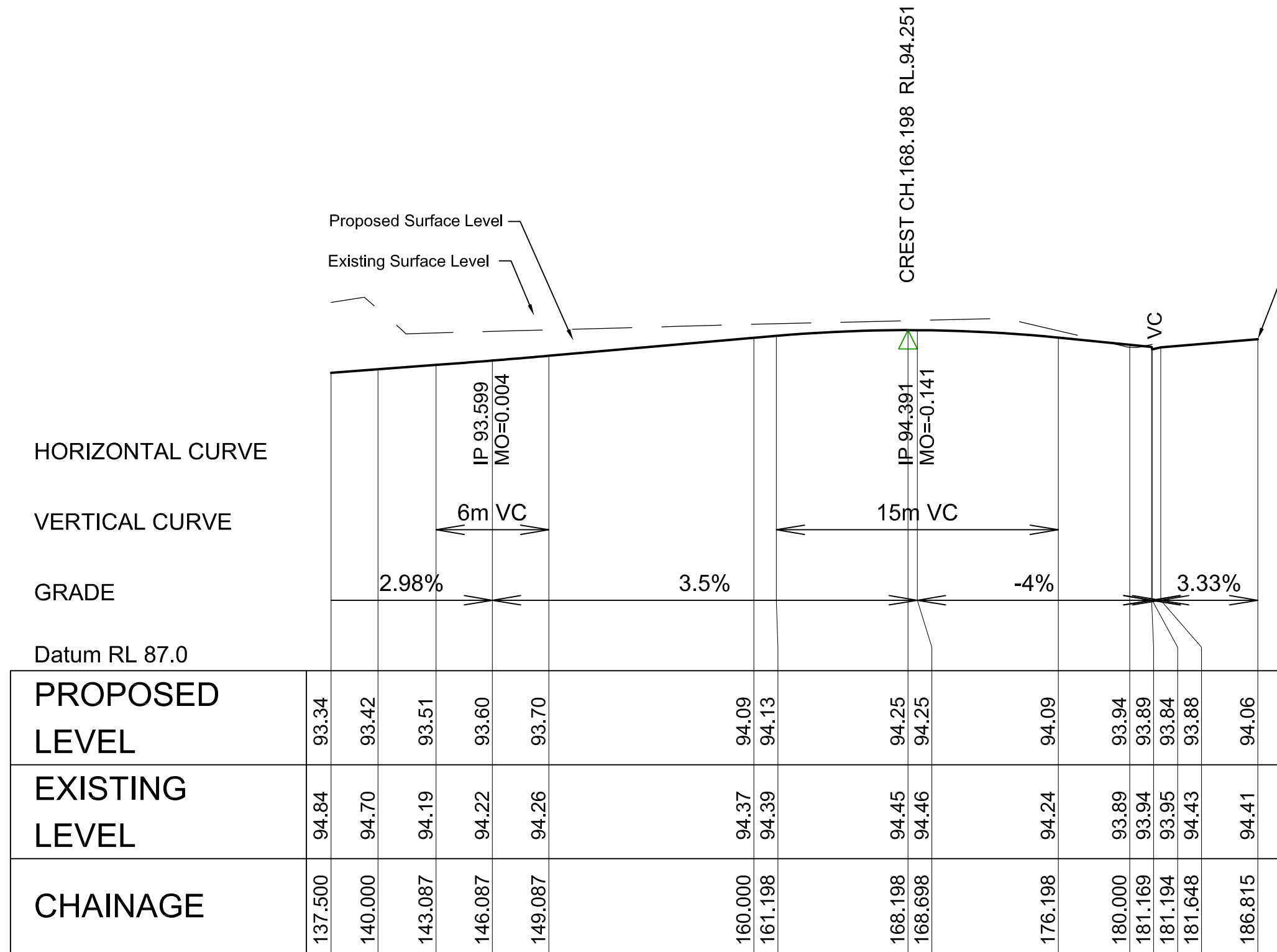
Drawing Number
MMD-335517-C-DR-00-XX-1115

Issued for DA approval



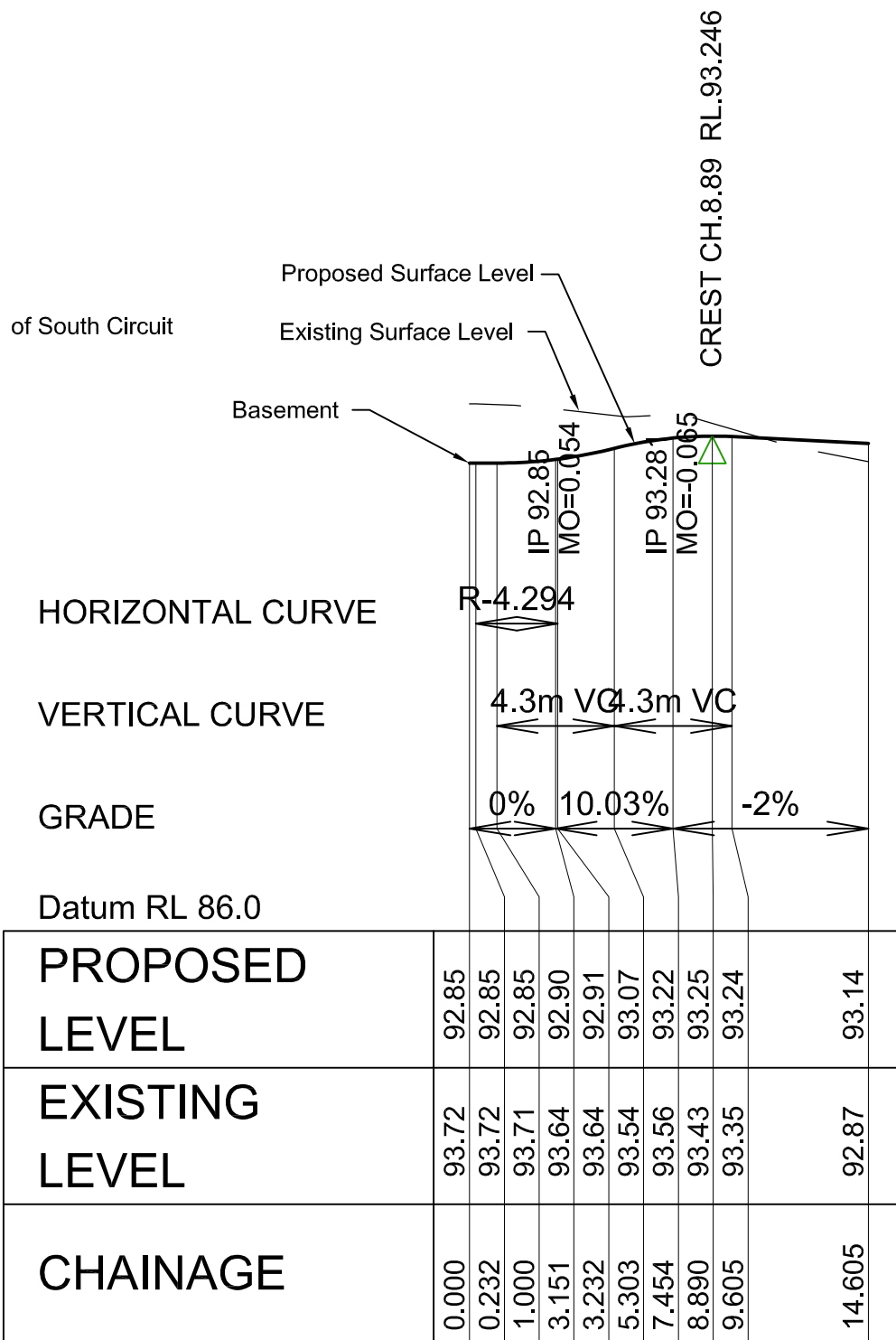
SCALE 1:250 HOR - 1:100 VER

LONGITUDINAL SECTION ALONG MC13



SCALE 1:250 HOR - 1:100 VER

LONGITUDINAL SECTION ALONG MC13



SCALE 1:250 HOR - 1:100 VER

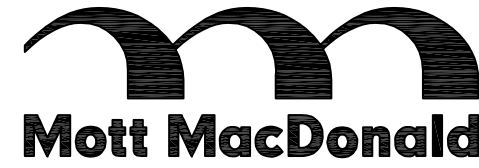
LONGITUDINAL SECTION ALONG MC15

Notes

Key to symbols

Reference drawings

03	15.04.15	ADS	Issued for DA Approval	GC	CJA
02	31.03.15	AMP	Issued for Revised Tender	GC	CJA
01	10.02.15	ADS	Re-issued for Tender	GC	CJA
0	19.12.14	AMP	Issued for Tender	GC	CJA
P4	23.07.14	DW	Issued for DA	GC	X
P3	14.07.14	ADS	Re-issued for information	GC	X
P2	03.06.14	AMP	Re-issued for information	GC	X
P1	02.06.14	AMP	Issued for information	GC	X
Rev	Date	Drawn	Description	Ch'k'd	App'd



Level 10, 383 Kent Street
Sydney NSW 2000
Australia
PO Box Q1678
QVB Sydney NSW 1230
T +61 (0)2 9098 6800
F +61 (0)2 9098 6800
W www.mottmac.com.au

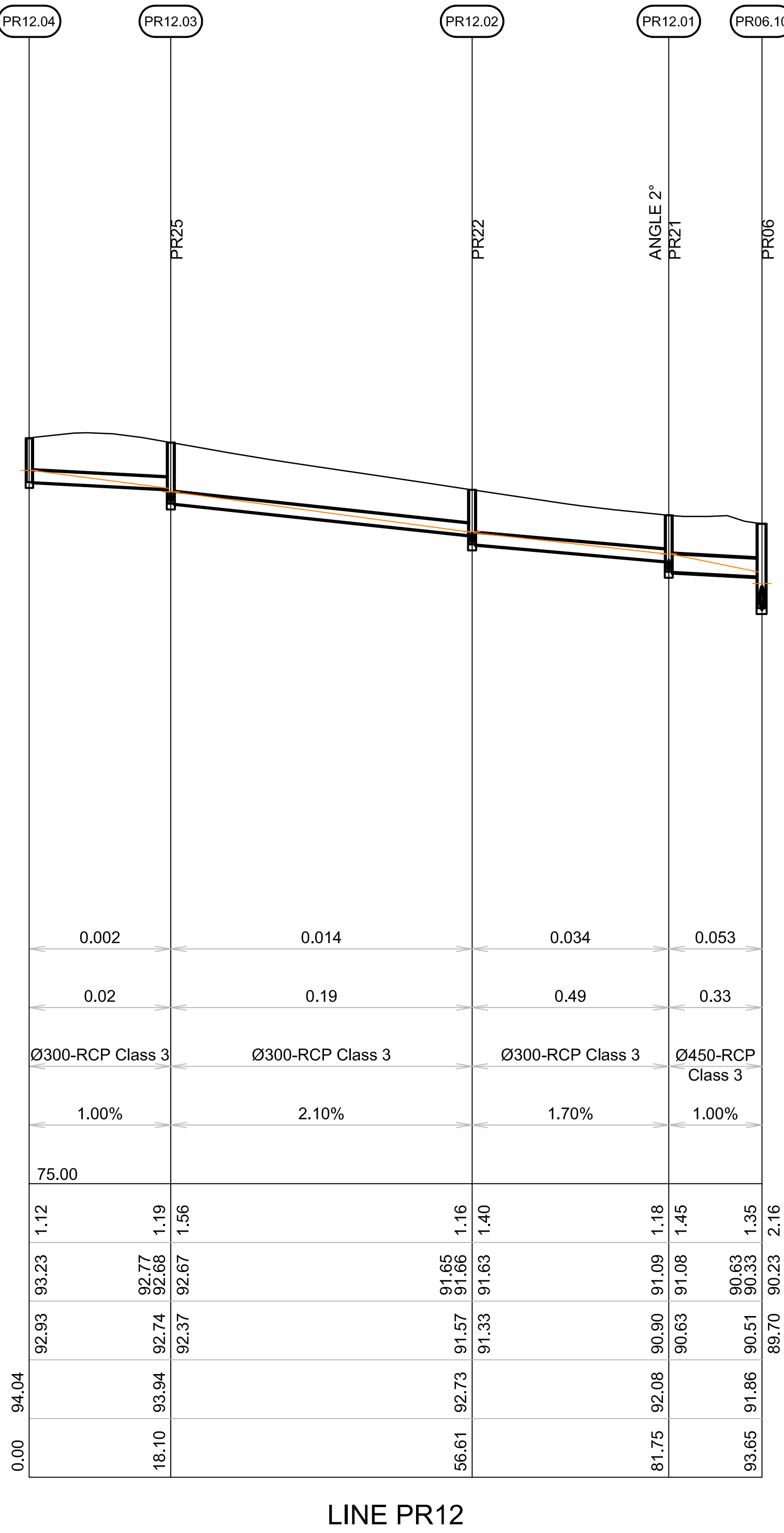
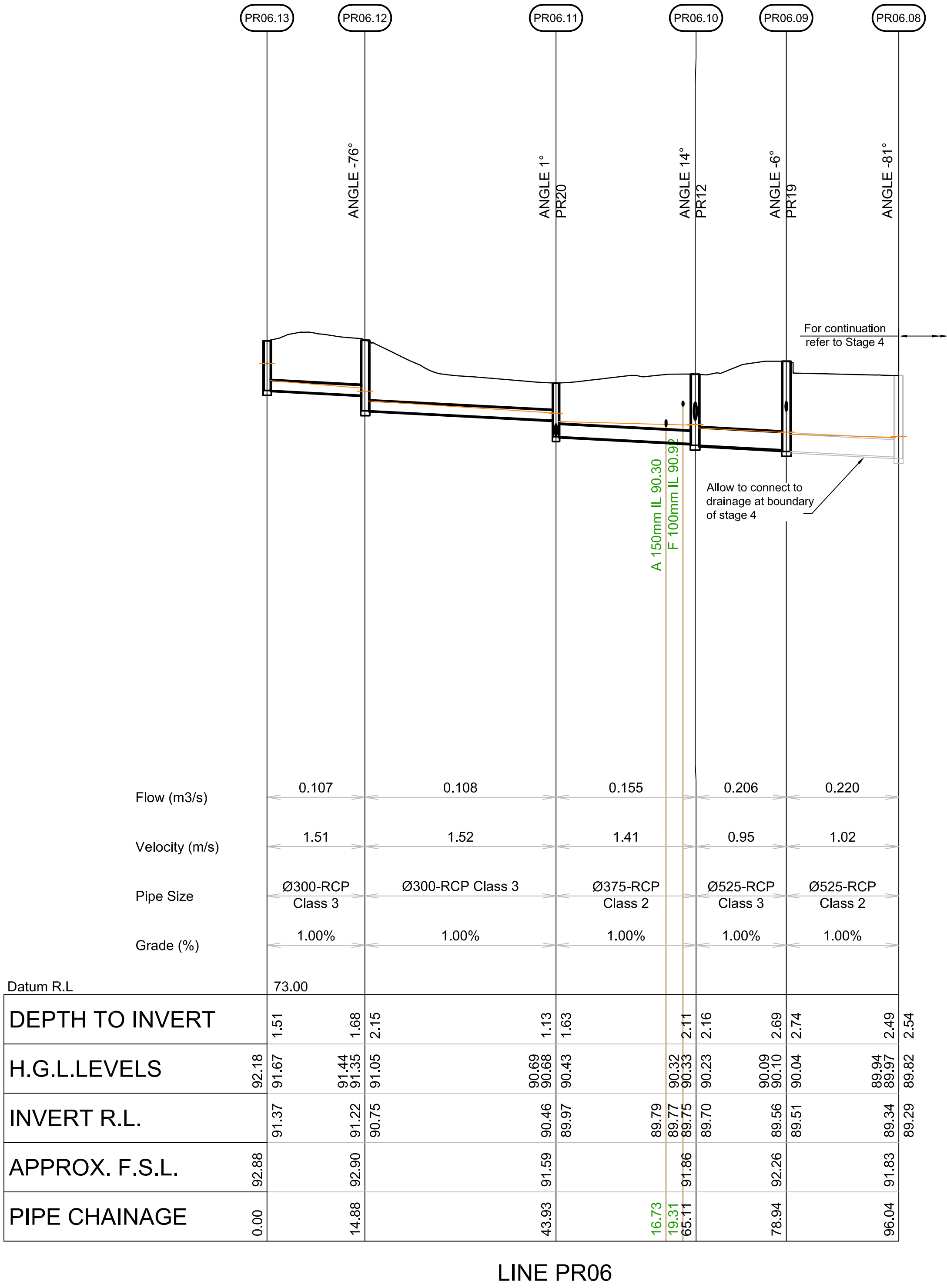
Client
Anglicare Chesalon

Title
Oran Park - Anglicare Chesalon
Infrastructure Package
Stage 3 Civil Works
Road Longitudinal Section
Sheet 1

Designed	G Collins	.	Eng check	J Toth	.
Drawn	A Paciben	.	Coordination	J Gilligan	.
Dwg check	G Collins	.	Approved	C Avis	.
Scale at A1	As Shown	Status	APR	Rev	03

Drawing Number
MMD-335517-C-DR-00-XX-1145

Issued for DA approval




Issued for DA approval

Notes

Key to symbols

Reference drawings

02	15.04.15	ADS	Issued for DA Approval	GC	CJA
01	10.02.15	ADS	Re-issued for Tender	GC	CJA
0	19.12.14	AMP	Issued for Tender	GC	CJA
P3	23.07.14	DW	Issued for DA	GC	X
P2	14.07.14	ADS	Re-issued for information	GC	X
P1	02.06.14	AMP	Issued for information	GC	X
Rev	Date	Drawn	Description	Ch'k'd	App'd



Level 10, 383 Kent Street
Sydney NSW 2000
Australia
PO Box Q1678
QVB Sydney NSW 1230
T +61 (0)2 9098 6800
F
W www.mottmac.com.au

Client
Anglicare Chesalon

Title
Oran Park - Anglicare Chesalon
Infrastructure Package
Stage 3 Civil Works
Stormwater Longitudinal Sections
Sheet 1

Designed	G Collins	.	Eng check	J Toth	.
Drawn	A Paciben	.	Coordination	J Gilligan	.
Dwg check	G Collins	.	Approved	C Avis	.
Scale at A1 As Shown		Status APR		Rev 02	

Drawing Number
MMD-335517-C-DR-00-XX-1150