

ORIGINAL DRAWINGS

(These are the originals only if this text is RED)

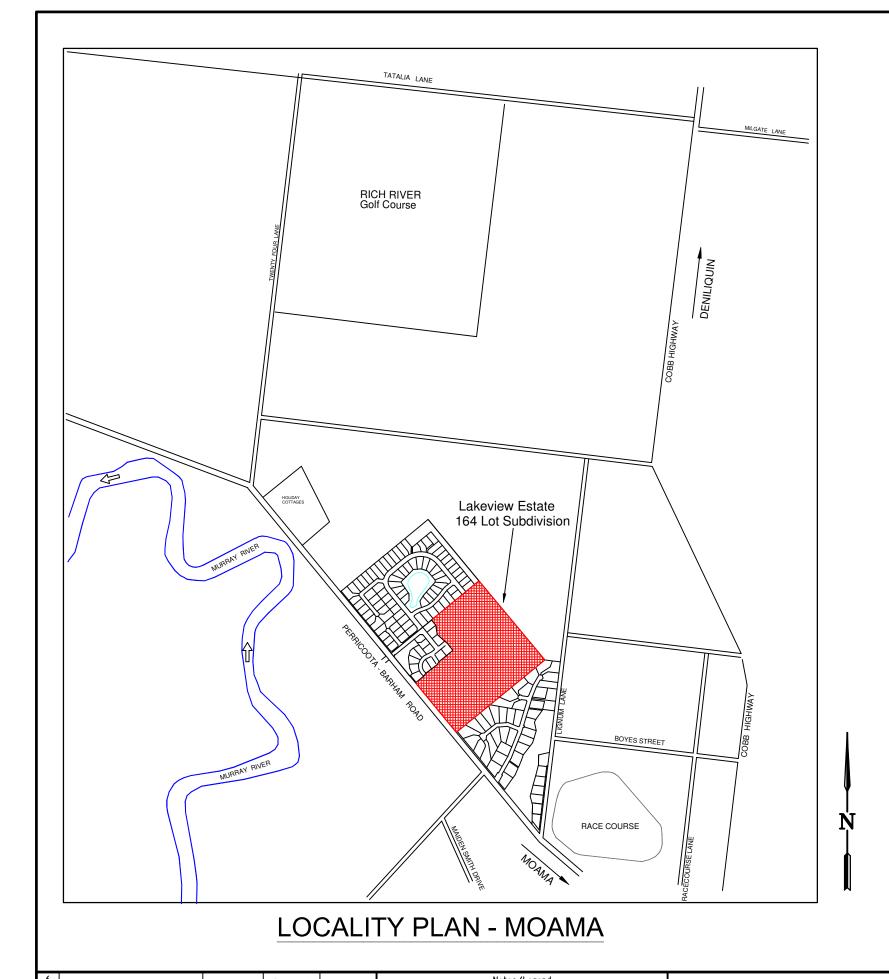
MURRAY SHIRE COUNCIL
Construction Certificate Approval

Application Number: 15/122 Approval Date: 16 March 2015

Leigh Robins
Director of Engineering

Villawood Properties Pty Ltd Lakeview Estate - Stage 2

Drawing file:	LTO Ref:	Council Ref:	Ref:	Version	
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MURRAY SHIRE COUNCIL Construction Certificate Approval

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Leigh Robins
Director of Engineering

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5			G.McCoomb		-	\
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w						TERRACO
2	Murray Shire Council Amendments	20/01/2015	Appr	oved		Civil Engineers
1	Original Issue	27/11/2014				Project Managers
0	Draft	-				Development Consultants
Ver	Revision Description	Date				Development Consultants

Terraco P/L ABN 12 681 695 776 Corner Jewell Court & Rowena Street Bendigo Vic 3550 Ph: 03 5442 5799 Fax: 03 5441 5506

E: info@terraco.com.au

NOT TO SCALE

14168 Notes.dwg

All lengths are in metres levels are to Australian Height Datum (Original Sheet Size is A3)

Murray Shire Council - Moama Villawood Properties Pty Ltd Lakeview Estate - Stage 2 Index & Locality Plan

Our Ref:

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DA 173/11

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GENERAL NOTES

- 1. Works are to comply with the current standards and specifications of the municipality. Contract is in accordance with AS2124-1992 including annexures.
- 2. This stage consists of lots 58 to 71.
- 3. The contractor must adhere to the code of practise for "Safety Precautions in Trenching Operations" under the "Occupational Health and Safety Act 2004". All workers on this site must have a current OH&S General Induction for Construction Working NSW Certificate (White Card).
- 4. The contractor must contact all servicing authorities to arrange service locations prior to commencement of excavation for this project.
- 5. Easements shown on these plans are 2.0m wide drainage easements, sewer easements shown on these plans are 3.0m wide, unless indicated otherwise.
- 6. Drainage pipes and pits are to be at 1.0m offset to property boundaries unless shown otherwise.
- 7. Drainage pipes 300mm diamter and greater are to be rubber ring joint class 2 reinforced concrete unless shown otherwise. Pipes 225mm diameter and less are to be rubber ring joint uPVC.
- 8. Pits (including lids) are to be constructed in accordance with the current standards of the Murray Shire Council. Side entry pits in rollover kerb & channel are to be constructed using an approved rollover type lintel.
- 9. Property drainage connections (150mm diameter) are to be provided in all easement pits, and in road drainage pits where shown. Property drainage connections are to be 150mm diameter uPVC SN8 and to have 600mm minimum cover. Connections to extend into properties by a minimum of 1.0m in length. 150mm PVC pipes shown in the road reserve are for house drain connections. Property connections shall be marked with a PVC riser pipe to 600mm above ground.
- 10. Step irons are not to be provided in any drainage pits.
- 11. Pipe stubs are to consist of one full pipe length unless shown otherwise.
- 12. Finished levels for Side Entry Pits must be determined from kerb levels, and lids should be sloped to suit nature strips etc. The FSL's indicated in the pit schedule are not kerb levels.
- 13. All trenches crossing pavement areas or beneath kerb or footpath are to be backfilled with 3% cement stabilised fine crushed rock.
- 14. Fill areas are to be cleared and stripped of all organic material and topsoil prior to placement of selected fill material. Fill areas are to be inspected by the supervising Engineer prior to any fill being placed. Fill is to be placed and compacted in layers. with a minimum compaction of 95% of the maximum dry density as determined by the standard compaction test being achieved. 98% of maximum dry density must be achieved within road pavement areas.
- 15. All concrete must have a minimum compressive strength of 25MPa at 28 days. Kerb & Channel concrete must have an equivalent strength using not less than 280kg of cement per m3 of concrete.
- 16. Maximum driveway grade for any allotment is 1 in 7.
- 17. Minimum finished grade on any allotment is 1 in 150.
- 18. Raw and treated water services crossing roads to be 32mm PN8 poly (if two properties being connected) or 25mm PN8 poly (if single property connected) sleeved in 50mm Class 12 uPVC service conduits.
- 19. Raw and treated water tappings including saddles, 20mm Ø copper service connections, meter cock (treated) and gate valve (raw) to be provided 1m inside allotments. Tapping saddles are to be gunmetal style only.
- 20. All sewer manhole covers are to be solid ductie iron Class D covers and frame with concrete surround.
- 21. 50mm diameter Class 12 uPVC service conduits are to be provided for water and gas services at the locations indicated on the plans.
- 22. Electricity cable conduits are to be installed as shown on the Power cable reticulation plan, in accordance with the requirements and specifications of Essential Energy.
- 23. NBN conduits are to be installed as shown on the NBN cable plan.
- 24. The location of all service conduits is to be marked 5mm into the face of both kerbs, immediately above the conduit with a uniform 50mm high letter (W,G,E,T etc.). Where conduits cross footpaths, the location is to be marked in the path (near the edge) in the same fashion.
- 25. Nature strips are to be topsoiled to a depth of approximately 100mm using material stockpiled from stripping, or approved imported material.
- 26. Pavement Testing. Tests to be completed at a frequency of 1 test per 500m2 of pavement with test locations approximately 1 metre offset from the kerb & measured at 2/3 of the layer depth. Court bowls to be tested in 3 locations & intersections in 2. Pavement material to be placed and compacted in layers with minimum compaction of 100% of the maximum dry density as determined by the modified compaction test being achieved.
- 27. All drainage and sewer pipes are to be inspected via CCTV after installation with a copy to be provided to the Murray Shire

Notes/Legend

- 28. Side entry pit throat clearnce to be 100mm max.
- 29. All pit lids to be constructed by Terra Firma Industries.
- 30. Street lighting of roundabout to be located in the centre of roundabout.
- 31. Street lighting of intersection with Perricoota Road & Lakeview Drive to be provided

٥			Designed	Checked	
5			G.McCoomb	R.Dawborn	
4			Jan 2015	Jan 2015	
3					
2	Murray Shire Council Amendments	20/01/2015	Approved		
1	Original Issue	27/11/2014			
0	Draft	-			
Ver	Revision Description	Date			



Terraco P/L ABN 12 681 695 776

Corner Jewell Court & Rowena Street Bendigo Vic 3550 Ph. 03 5442 5799 Fax: 03 5441 5506 E: info@terraco.com.a NOT TO SCALE

All lengths are in metres evels are to Australian Height Datum (Original Sheet Size is A3)

LTO Ref: 14168 Notes.dwg

Council Ref:

DA 173/11

Murray Shire Council - Moama

Our Ref

14168

Version

2

Sheet

2 of 32

Villawood Properties Pty Ltd Lakeview Estate - Stage 2

General Notes & Kerb Details

KERB SECTIONS

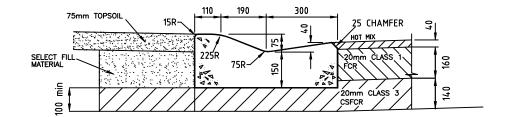
SHIRE OF MURRAY

Leigh Robins MODIFIED SM2 K&C & PAVEMENT DETAILSctor of Engineering

MURRAY SHIRE COUNCIL Construction Certificate Approval

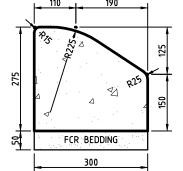
Application Number: 15/122

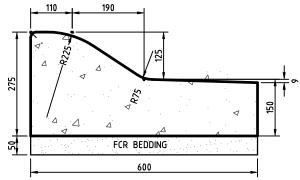
Approval Date: 16 March 2015



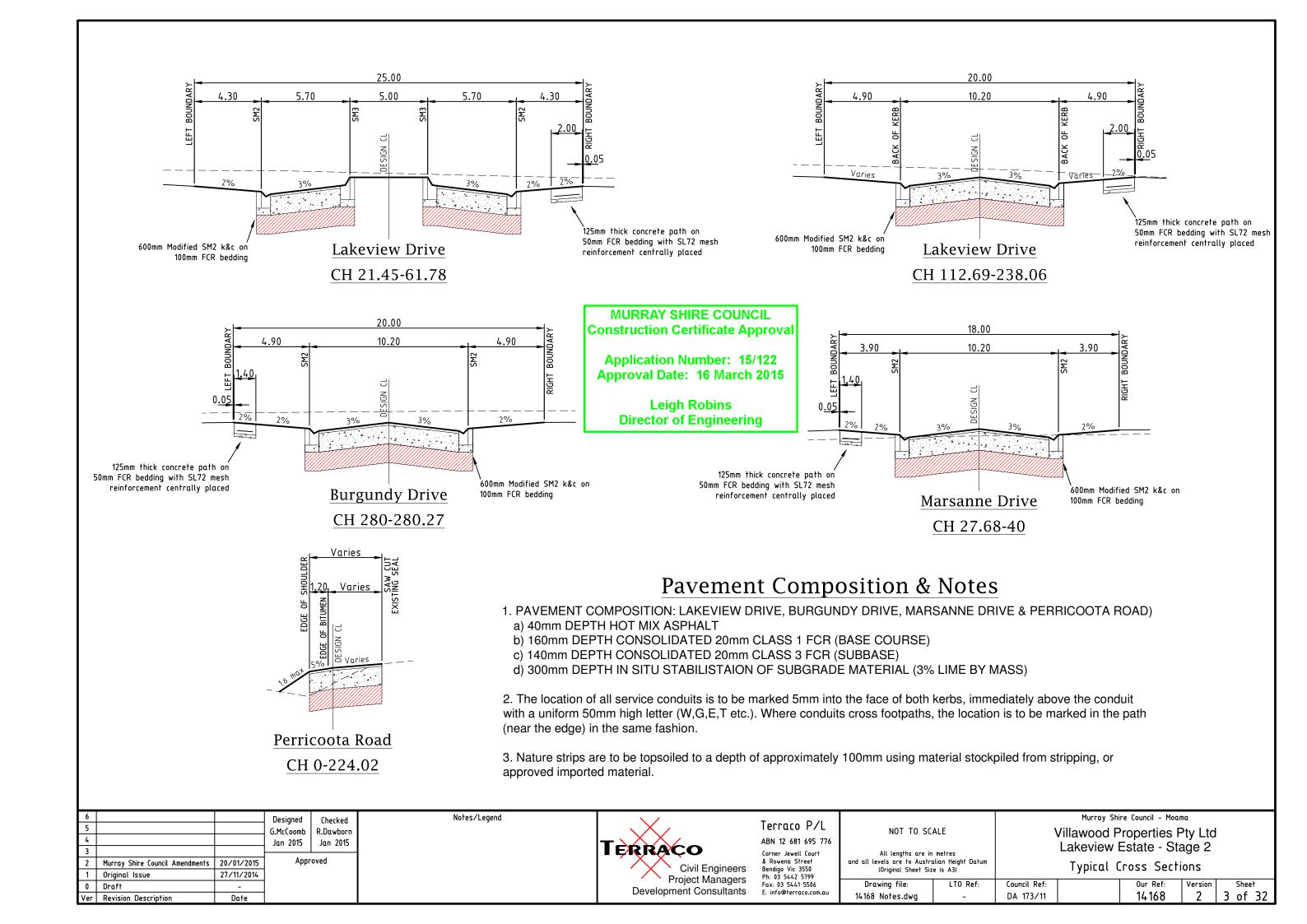
ROUNDABOUT SPLITTER ISLAND DETAIL (SM1)

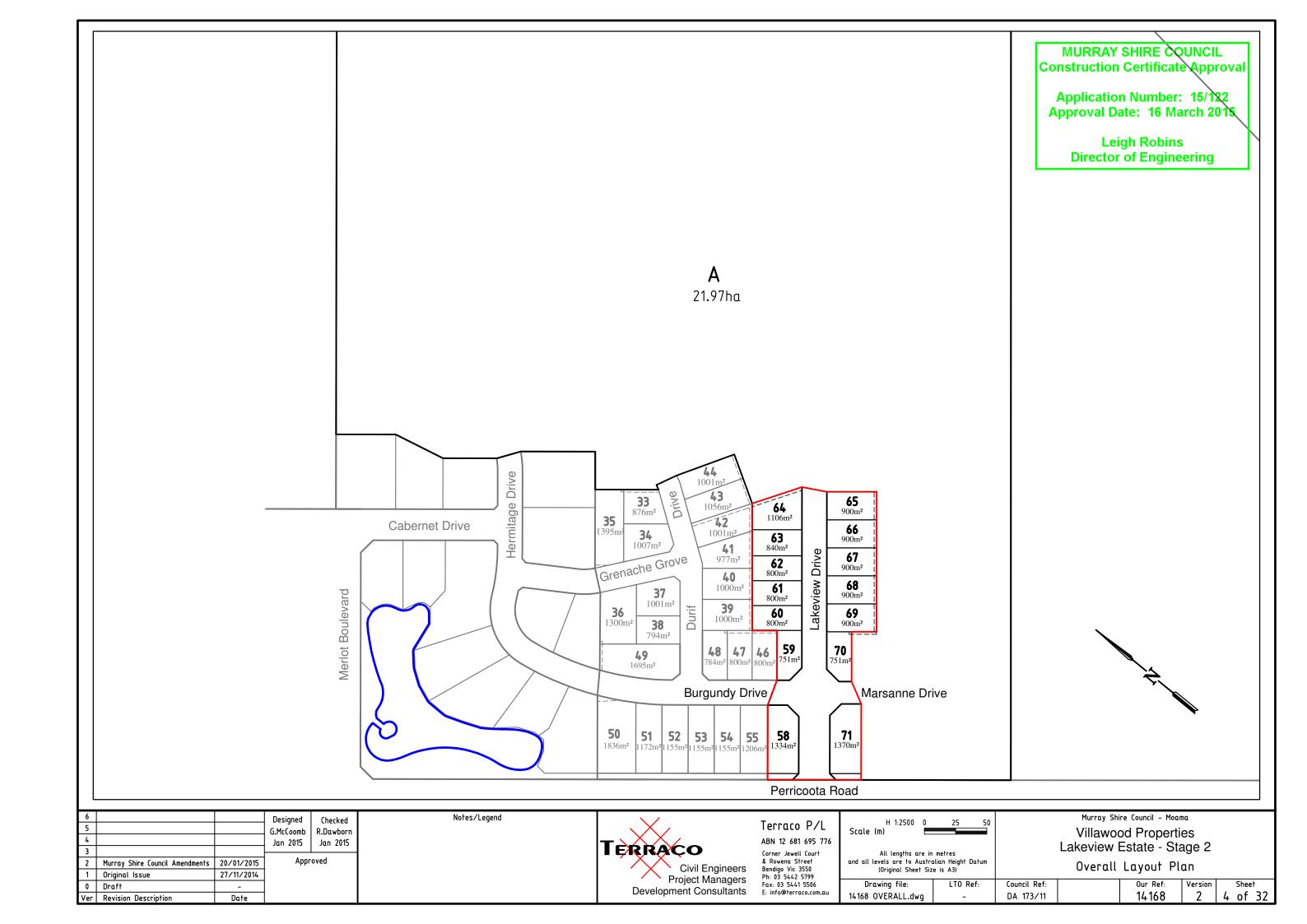
CENTRE ISLAND DETAIL (SM3)

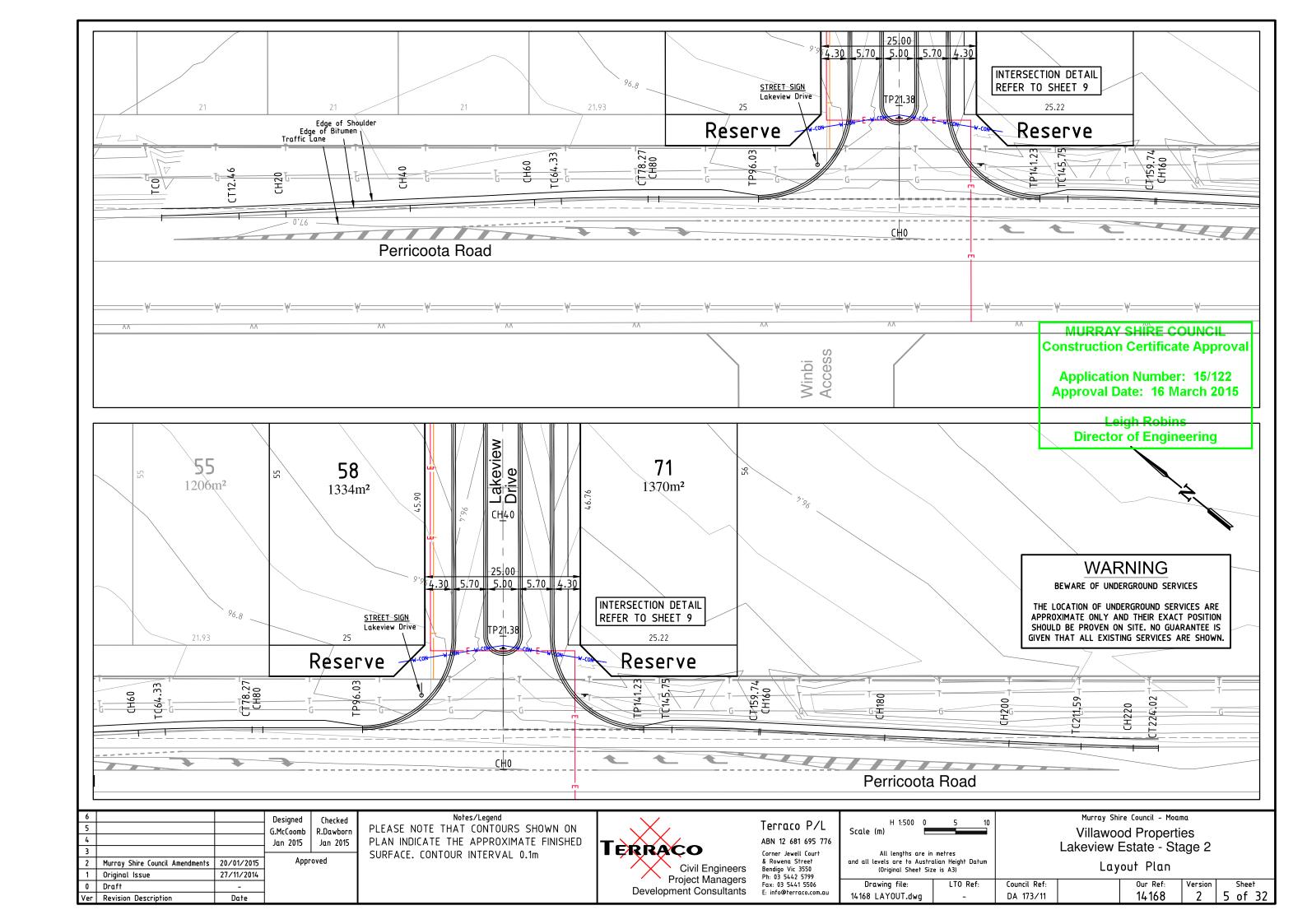


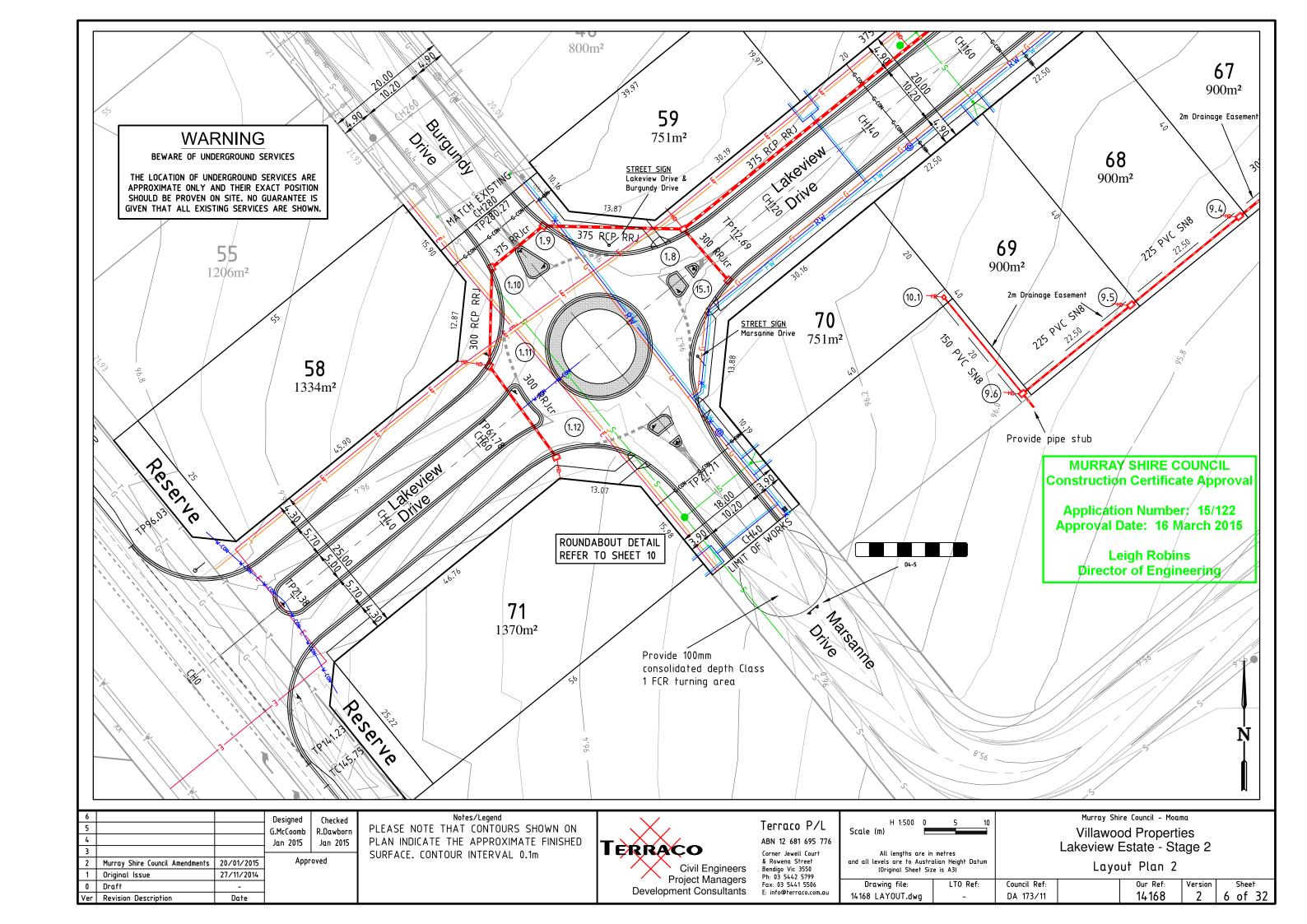


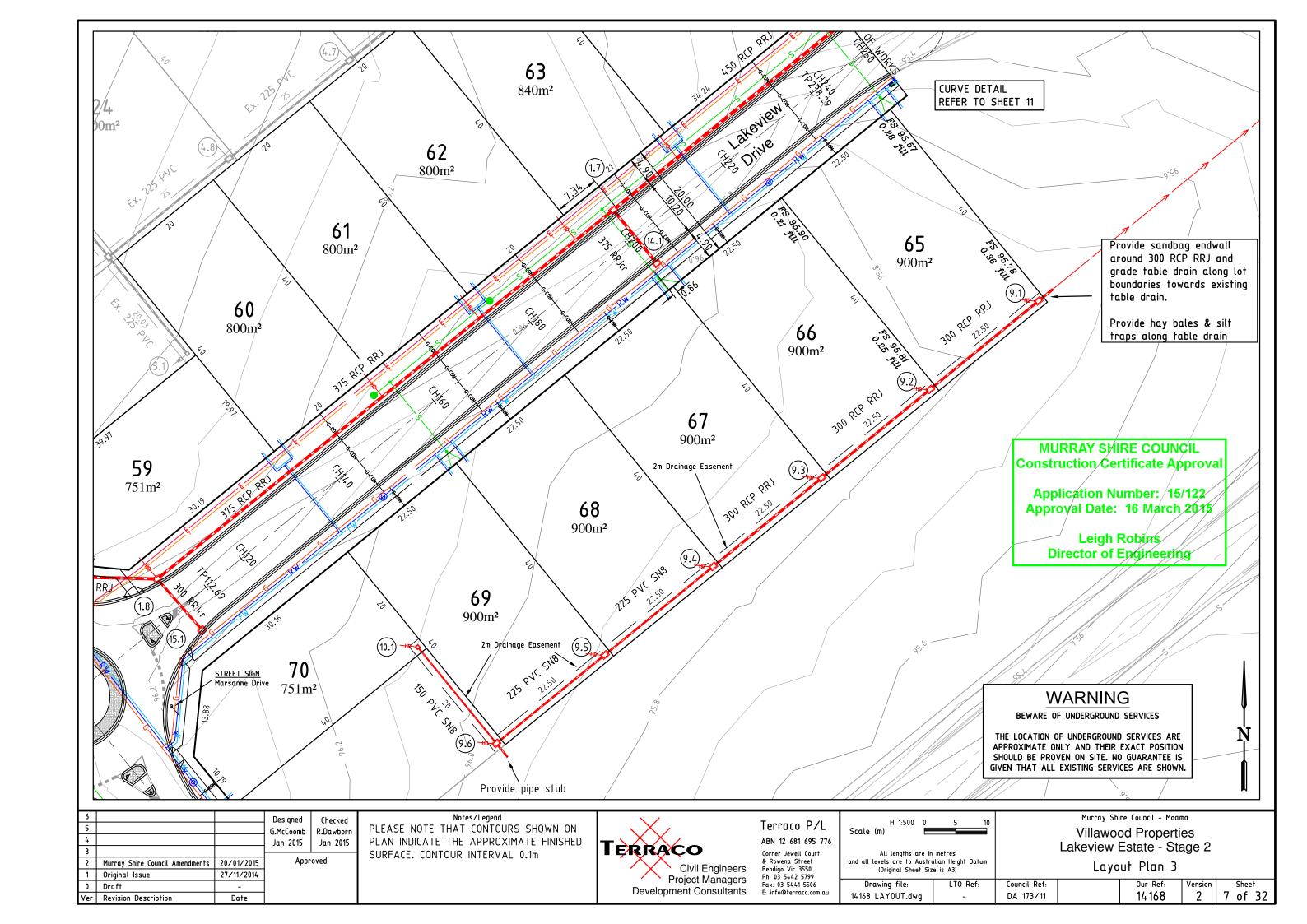
MEDIAN & ROUNDABOUT

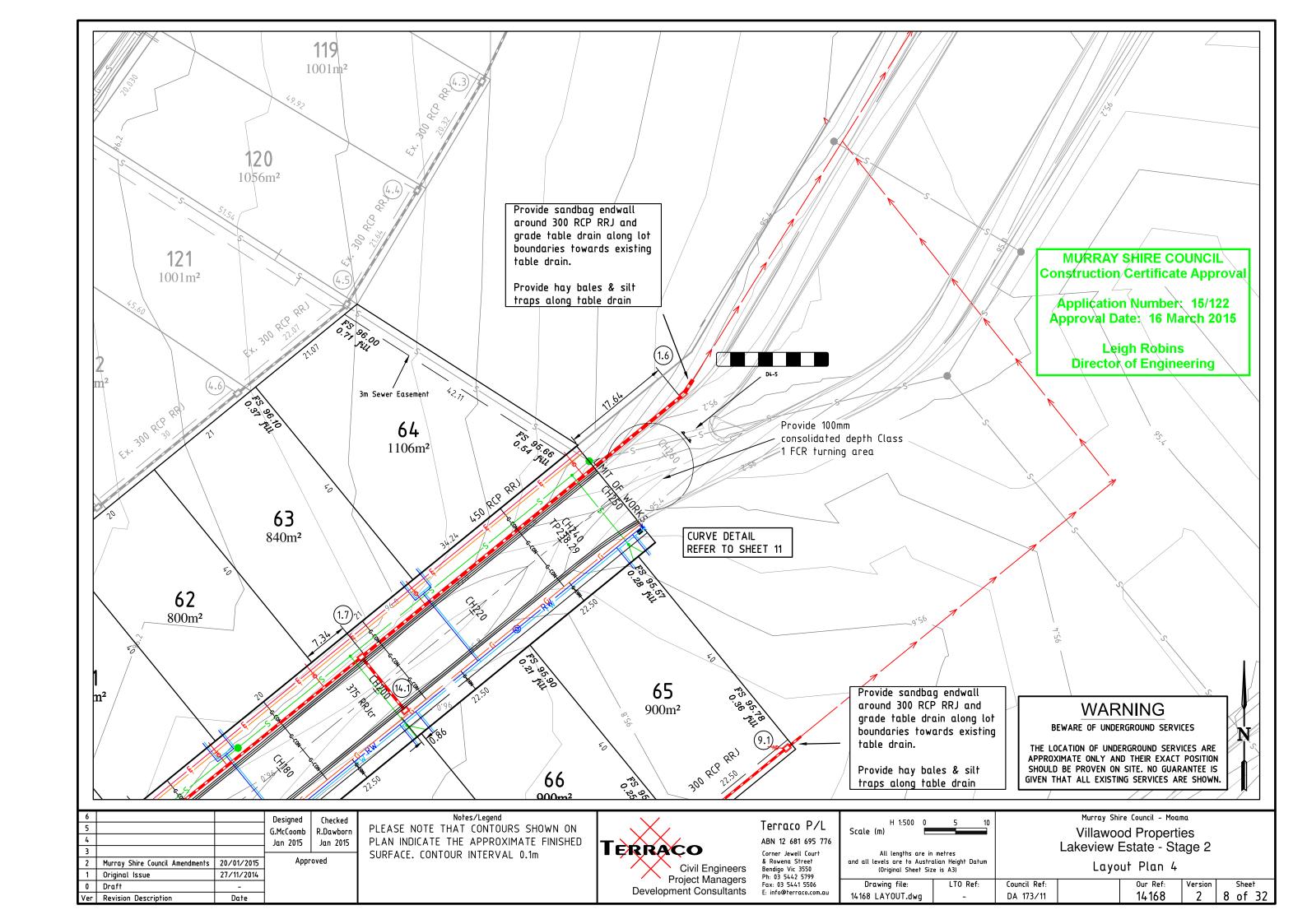


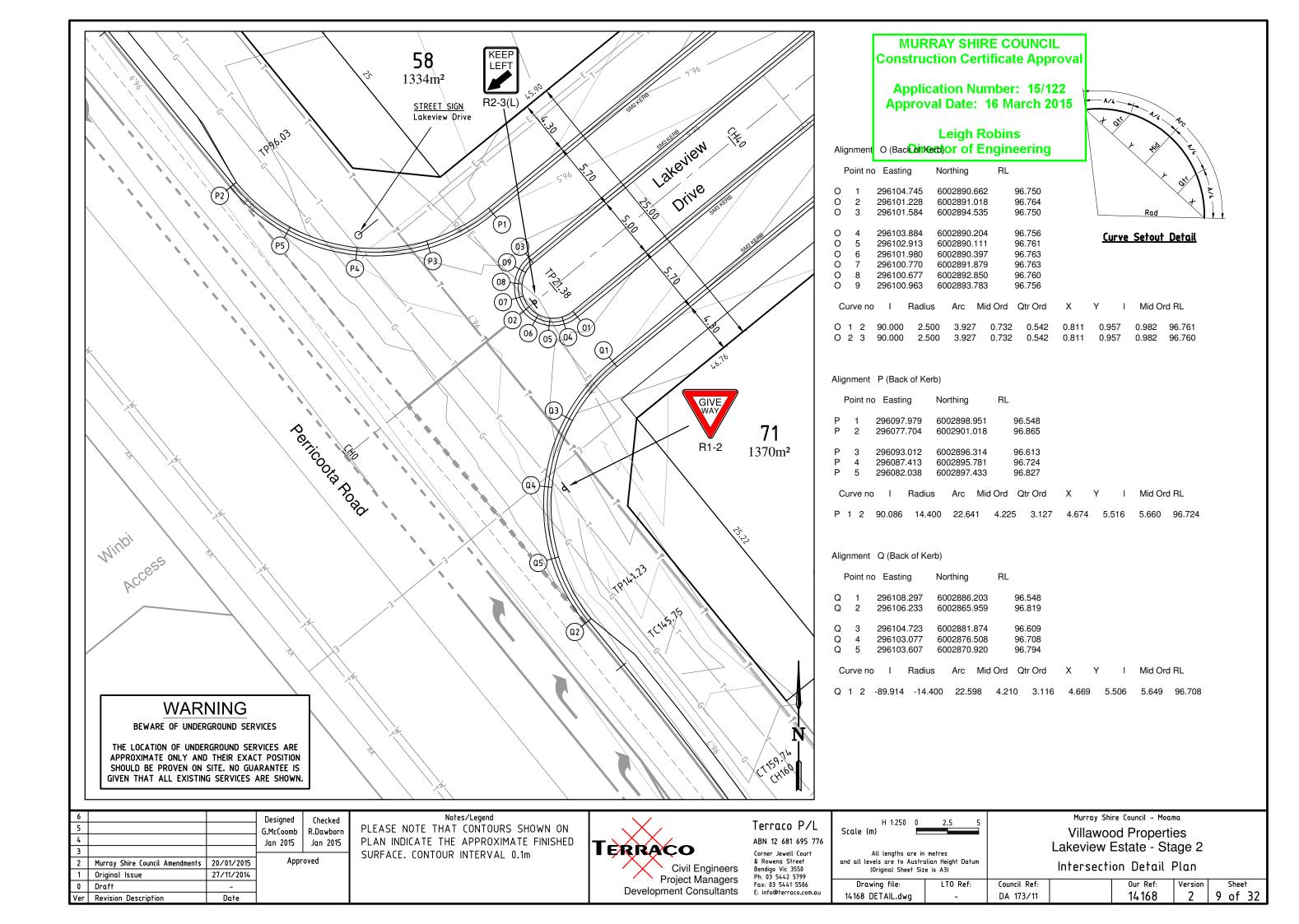


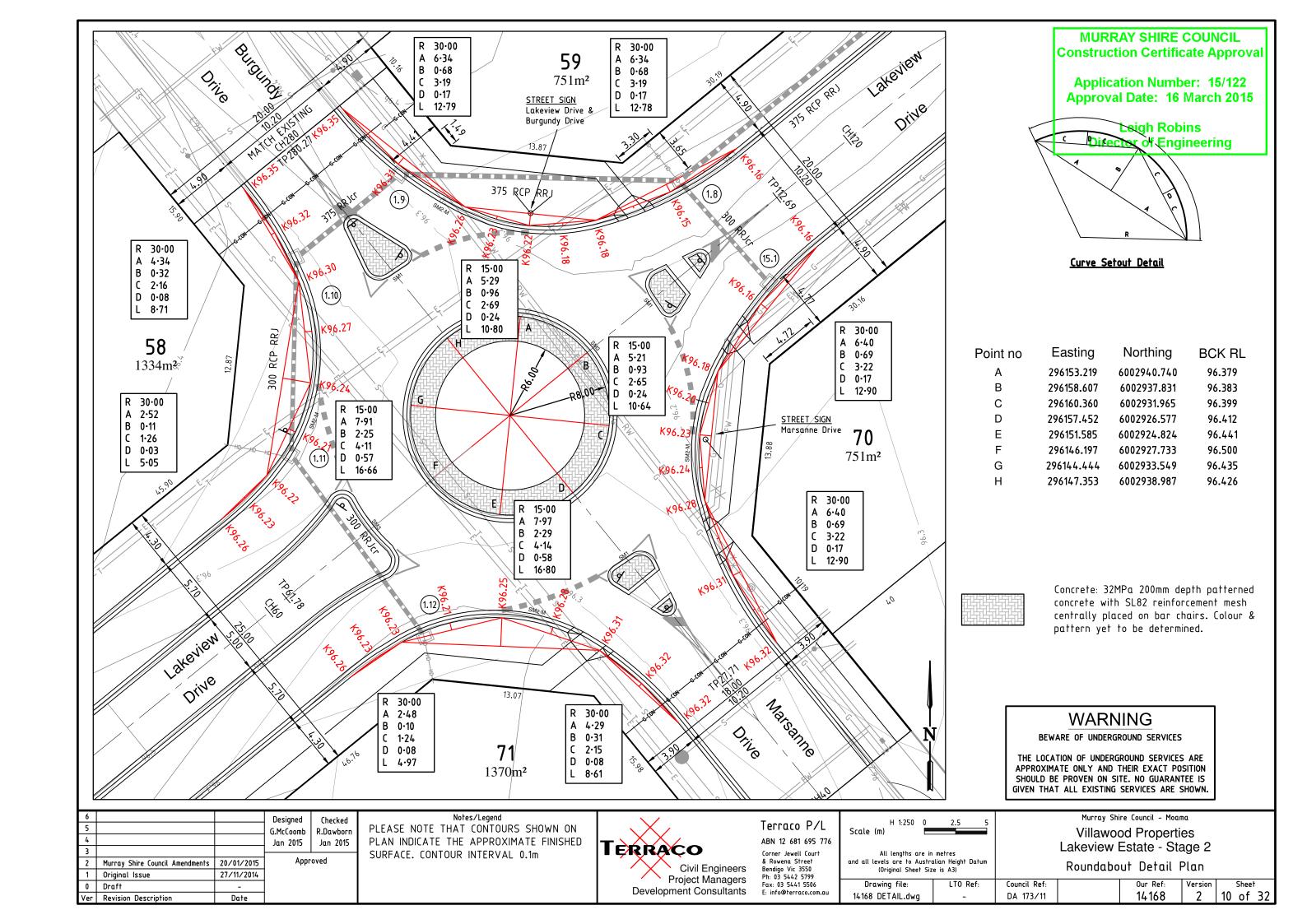


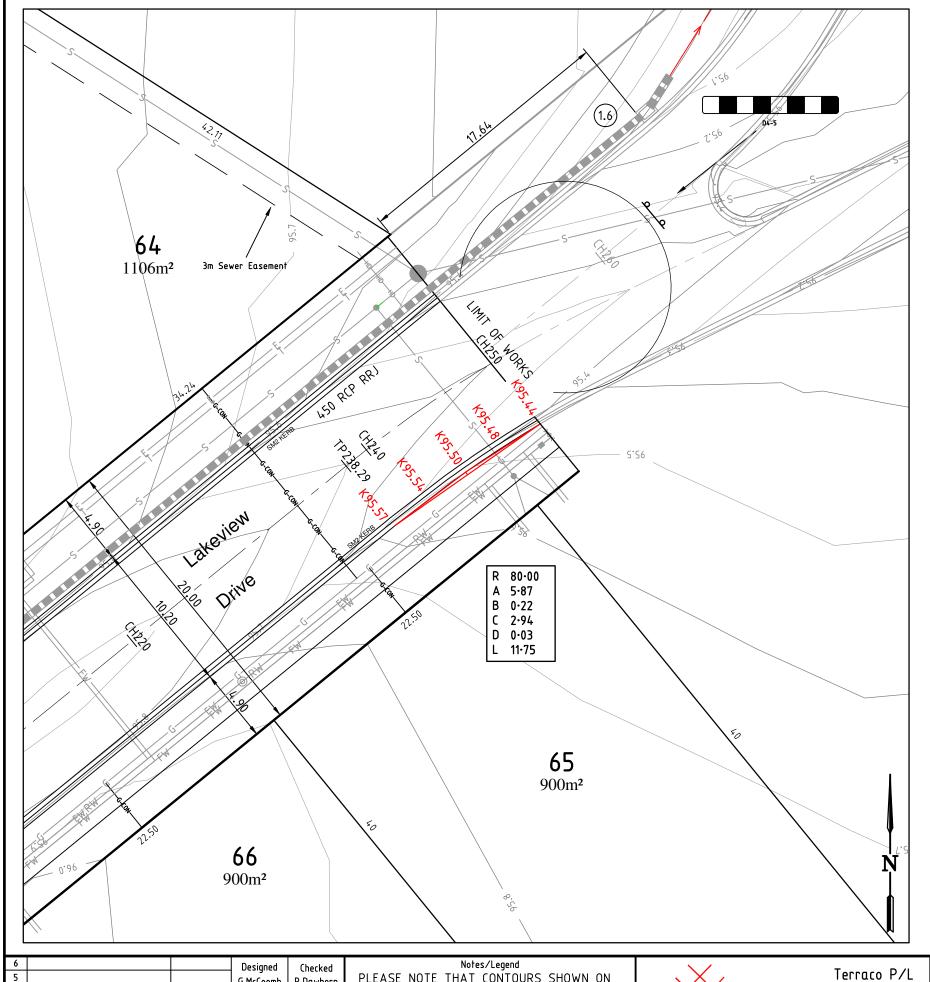












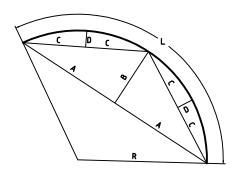
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Ver Revision Description

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Leigh Robins Director of Engineering



Curve Setout Detail

WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

Council Ref:

DA 173/11

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Murray Shire Council - Moama

Villawood Properties Lakeview Estate - Stage 2

Curve Detail Plan

Our Ref:

14168

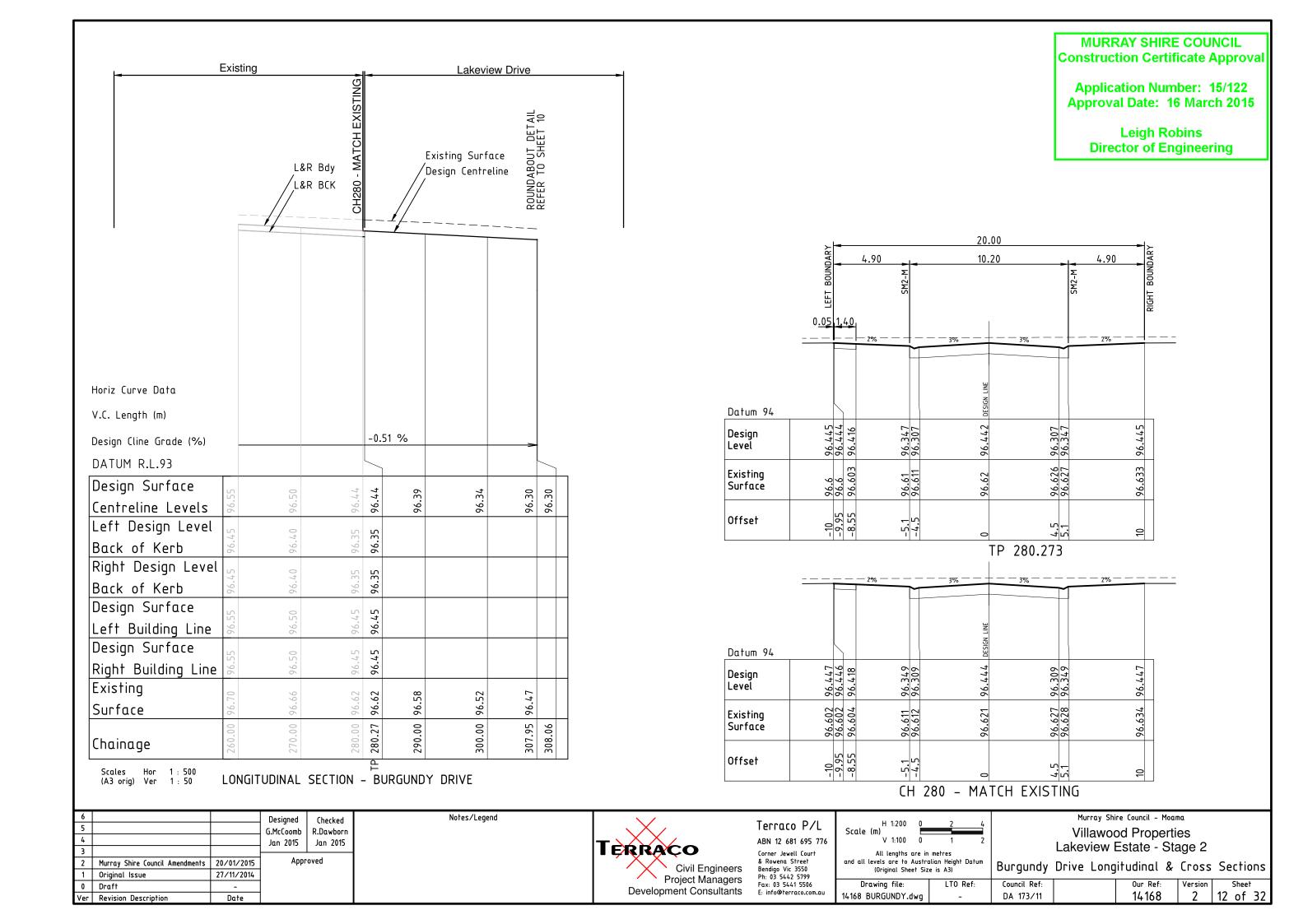
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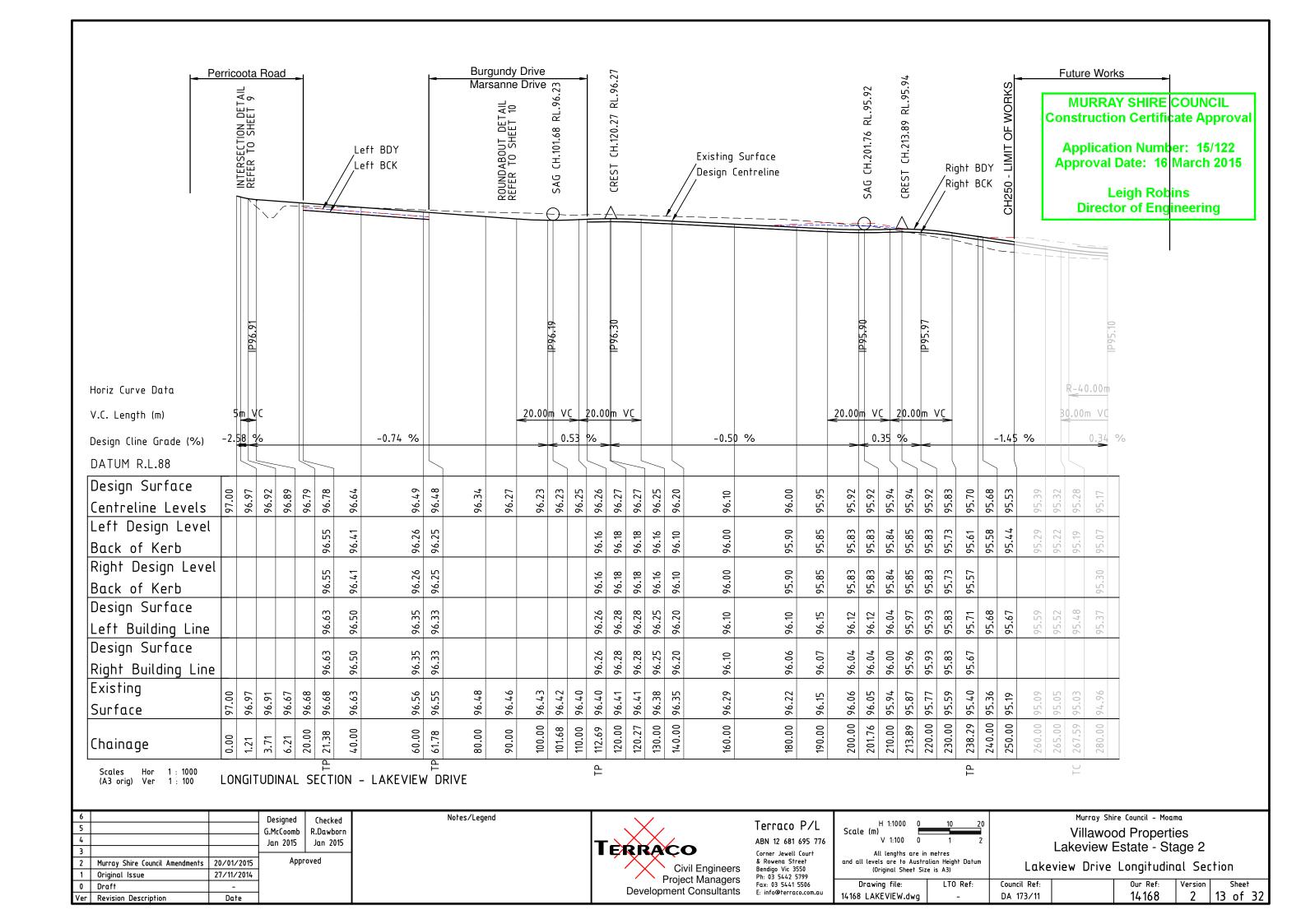
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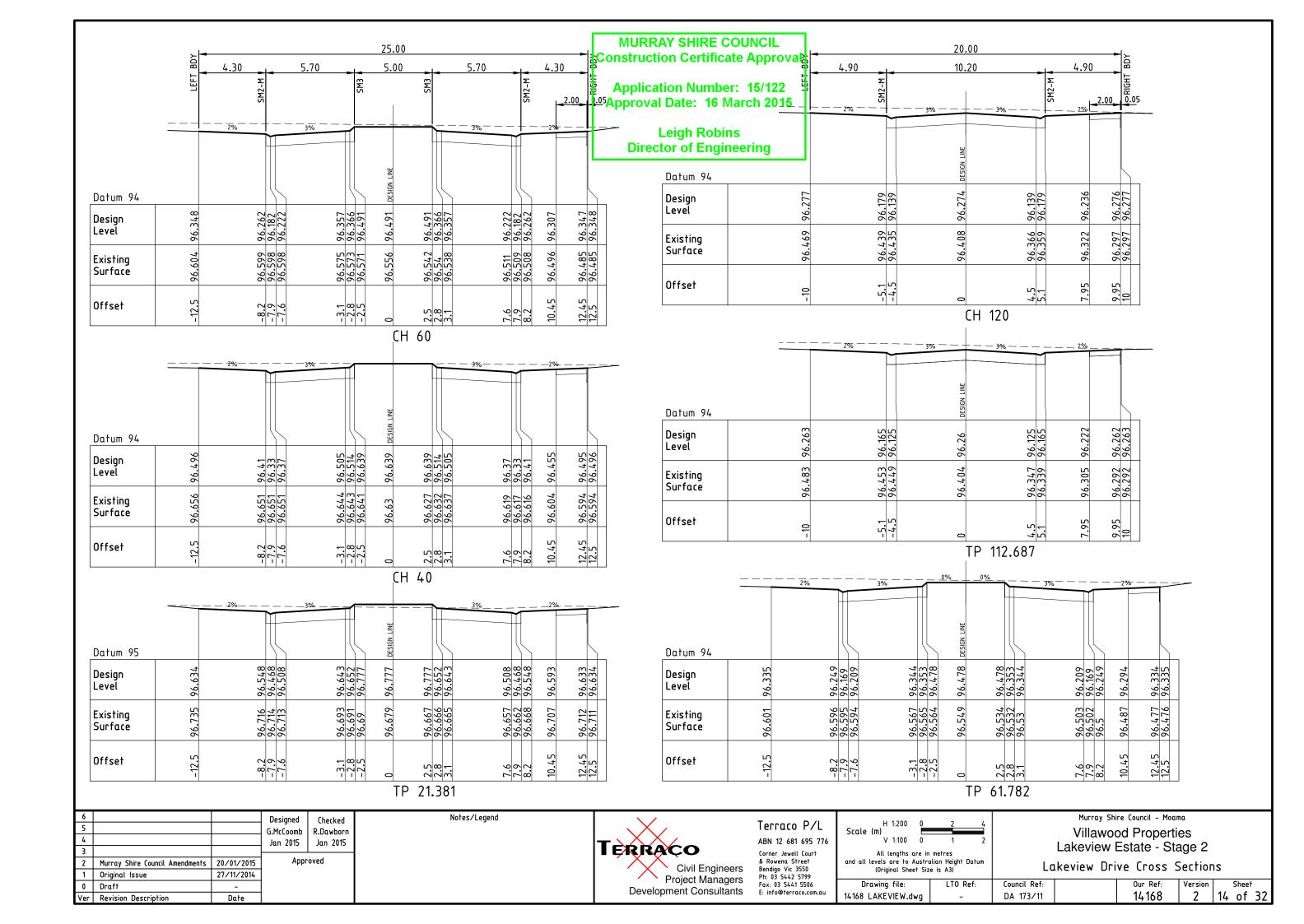
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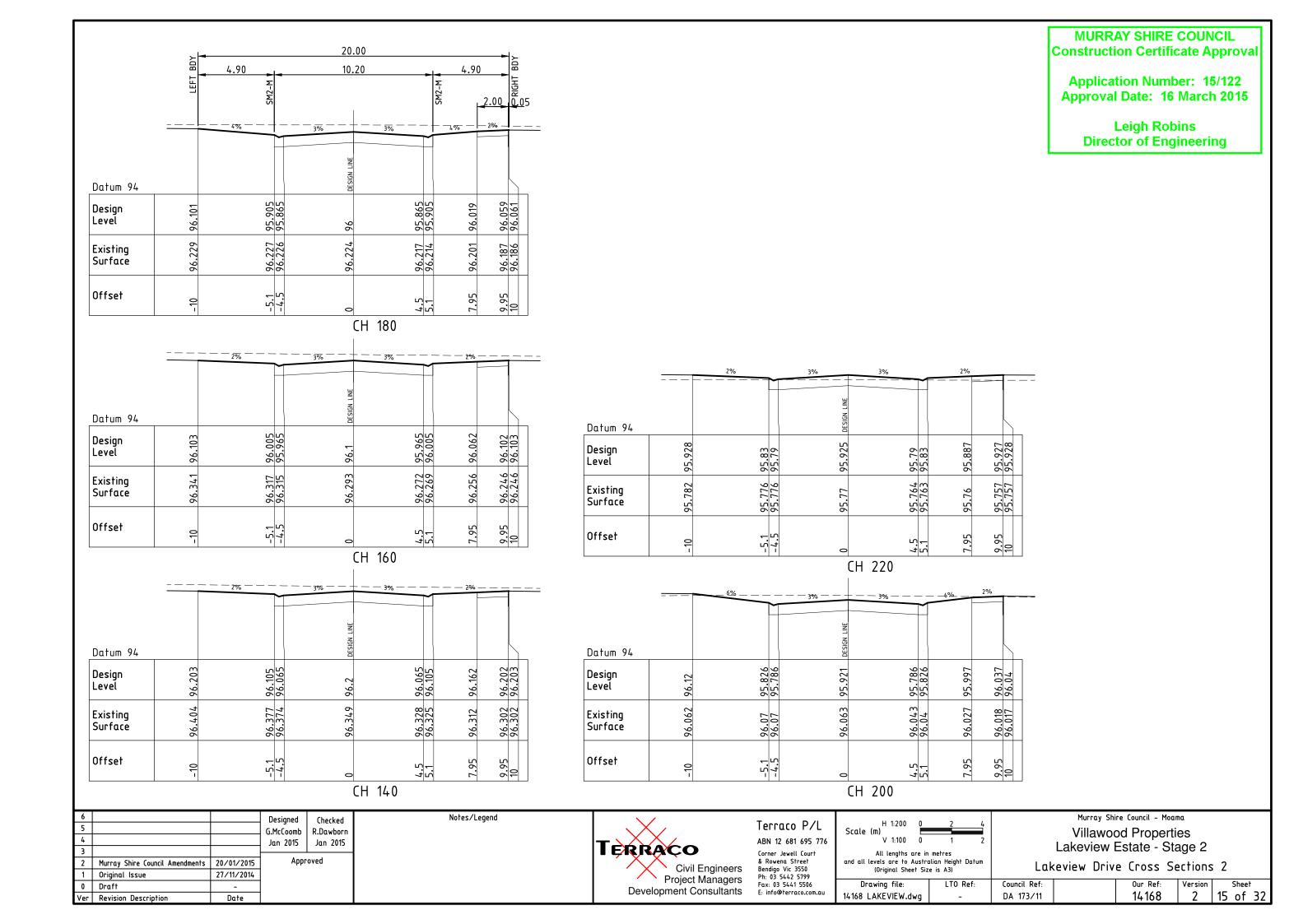
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			L	SURFACE. CONTOUR INTERVAL 0.1m	TERRACO	Corner Jewell Court	All lengths are in	metres
Murray Shire Council Amendments	20/01/2015	Appr	roved		Civil Engineers	& Rowena Street Bendigo Vic 3550	and all levels are to Austro	
Original Issue	27/11/2014				Project Managers	Ph: 03 5442 5799	(Original Sheet Siz	e IS A3)
Draft	-				Development Consultants	Fax: 03 5441 5506	Drawing file:	LTO Ref:
Revision Description	Date				Development Consultants	E: info@terraco.com.au	14168 DETAIL.dwa	_





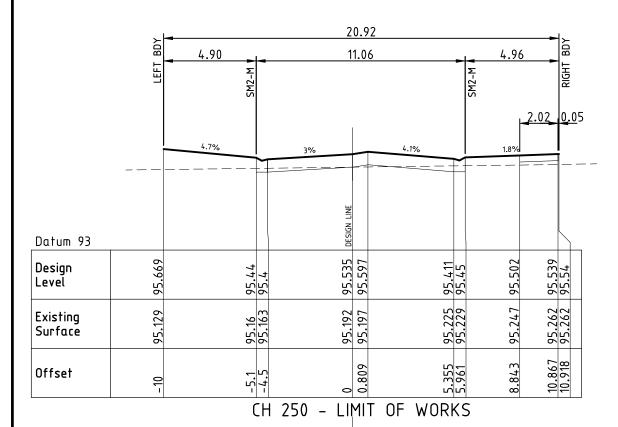




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Leigh Robins
Director of Engineering



	1	2%		3%		4%	_	2%	
Datum 94				DESIGN LINE			_		
Design Level	95.683	95.585		95.68	95.69	95.509	95.549	95.605	95.646
Existing Surface	95.292	95.325		95.36	95,361	95.391		95.41	95.407
Offset	-10	-5.1	-4.5	0	0.048	i ri	5.148	7.998	10.048
					CI	H 240			

Notes/Legend

Civil Engineers
Project Managers
Development Consultants

Terraco P/L
ABN 12 681 695 776
Corner Jewell Court

Corner Jewell Court & Rowena Street Bendigo Vic 3550 Ph: 03 5442 5799 Fax: 03 5441 5506 E: info@terraco.com.au

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All lengths are in metres
and all levels are to Australian Height Datum
(Original Sheet Size is A3)

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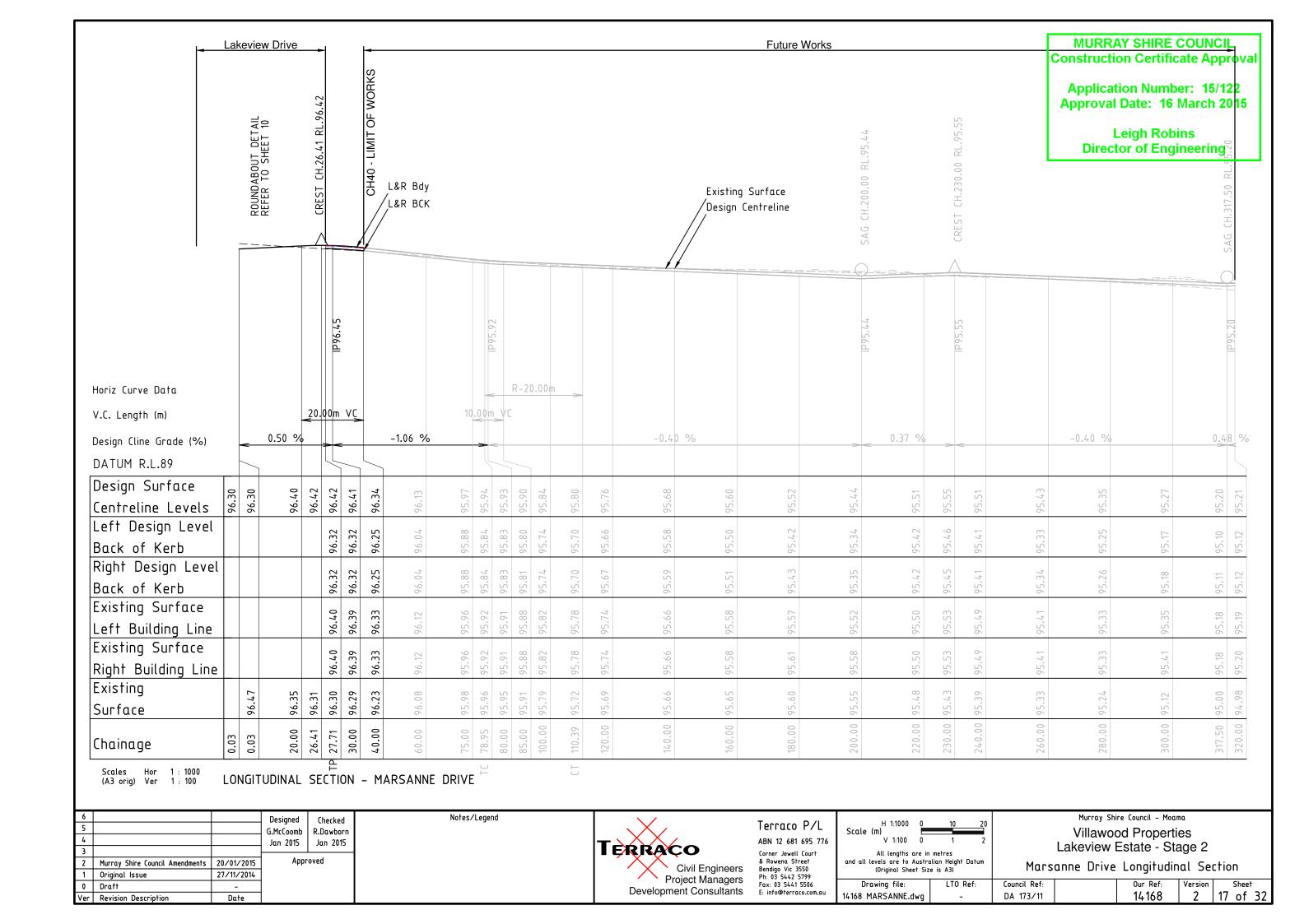
14168 LAKEVIEW.dwg -

Murray Shire Council - Moama
Villawood Properties
Lakeview Estate - Stage 2

Lakeview Drive Cross Sections 3

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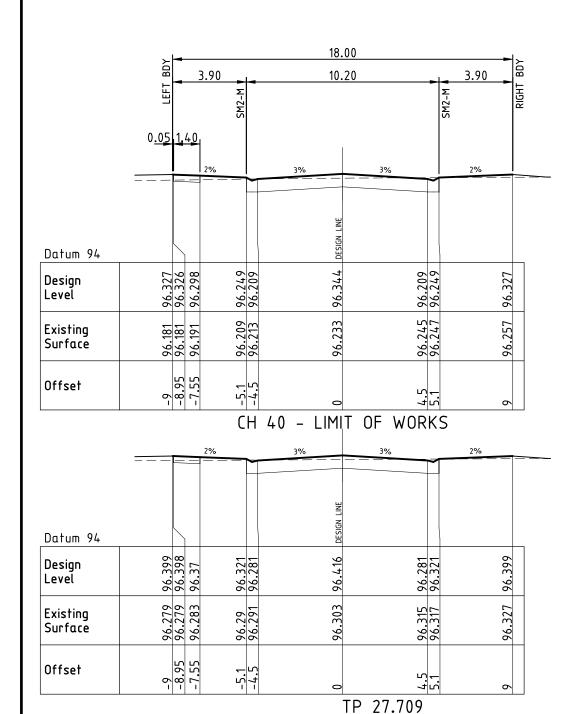
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DA 173/11	14168	2	16	of	32



MURRAY SHIRE COUNCIL Construction Certificate Approval **Application Number: 15/122**

> **Leigh Robins Director of Engineering**

Approval Date: 16 March 2015



Designed

G.McCoomb

Jan 2015

27/11/2014

Date

Murray Shire Council Amendments 20/01/2015

1 Original Issue

Ver Revision Description

0 Draft

Checked

R.Dawborn

Jan 2015

- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
IERRACO
Civil Engineers
Project Managers
Development Consultants

Notes/Legend

Terraco P/L ABN 12 681 695 776 Corner Jewell Court & Rowena Street Bendigo Vic 3550 Ph: 03 5442 5799 Fax: 03 5441 5506

E: info@terraco.com.au

H Scale (m)	1:200	0	2	4
	1:100	ō	1	2
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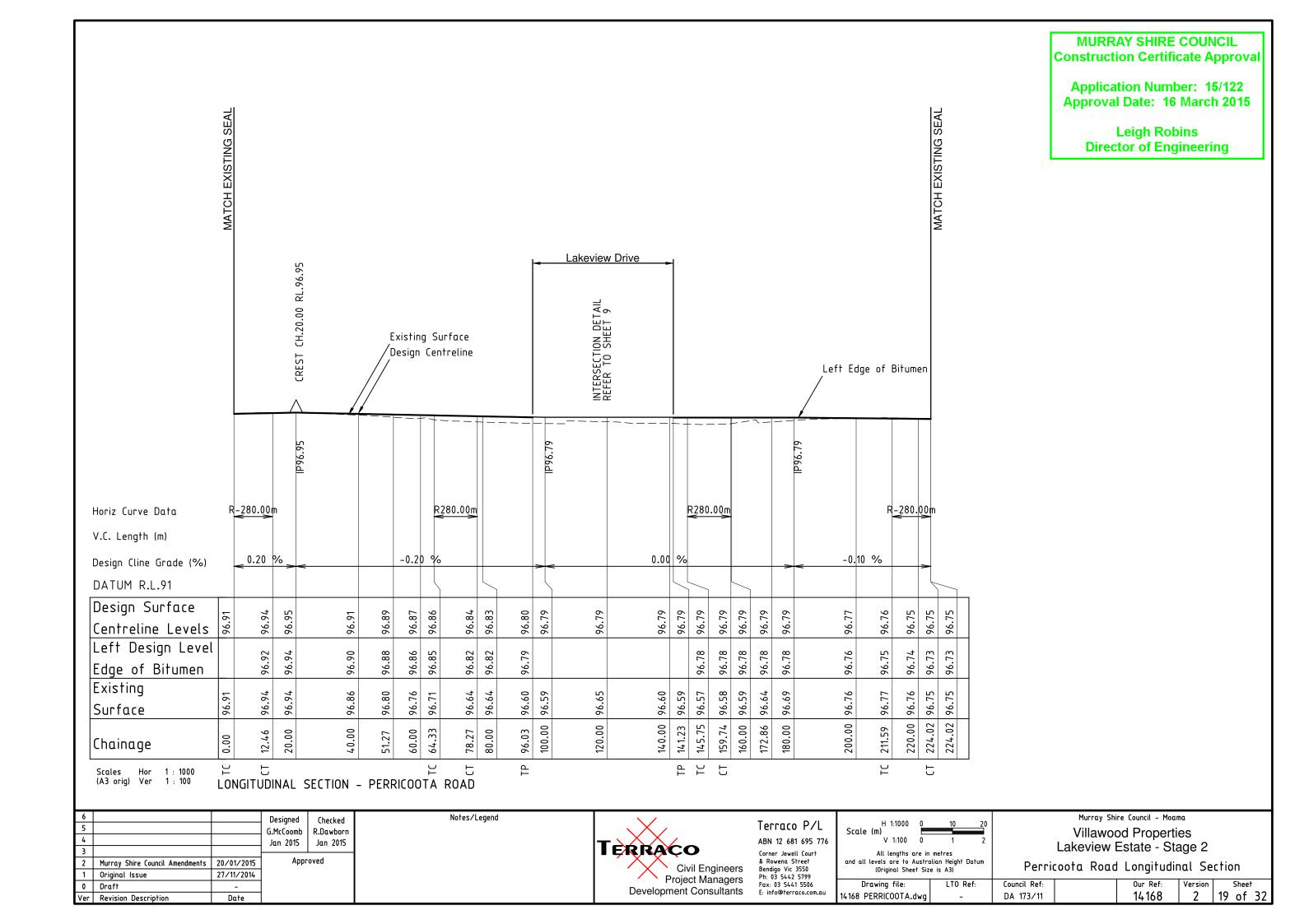
Murray Shire Council - Moama Villawood Properties Lakeview Estate - Stage 2

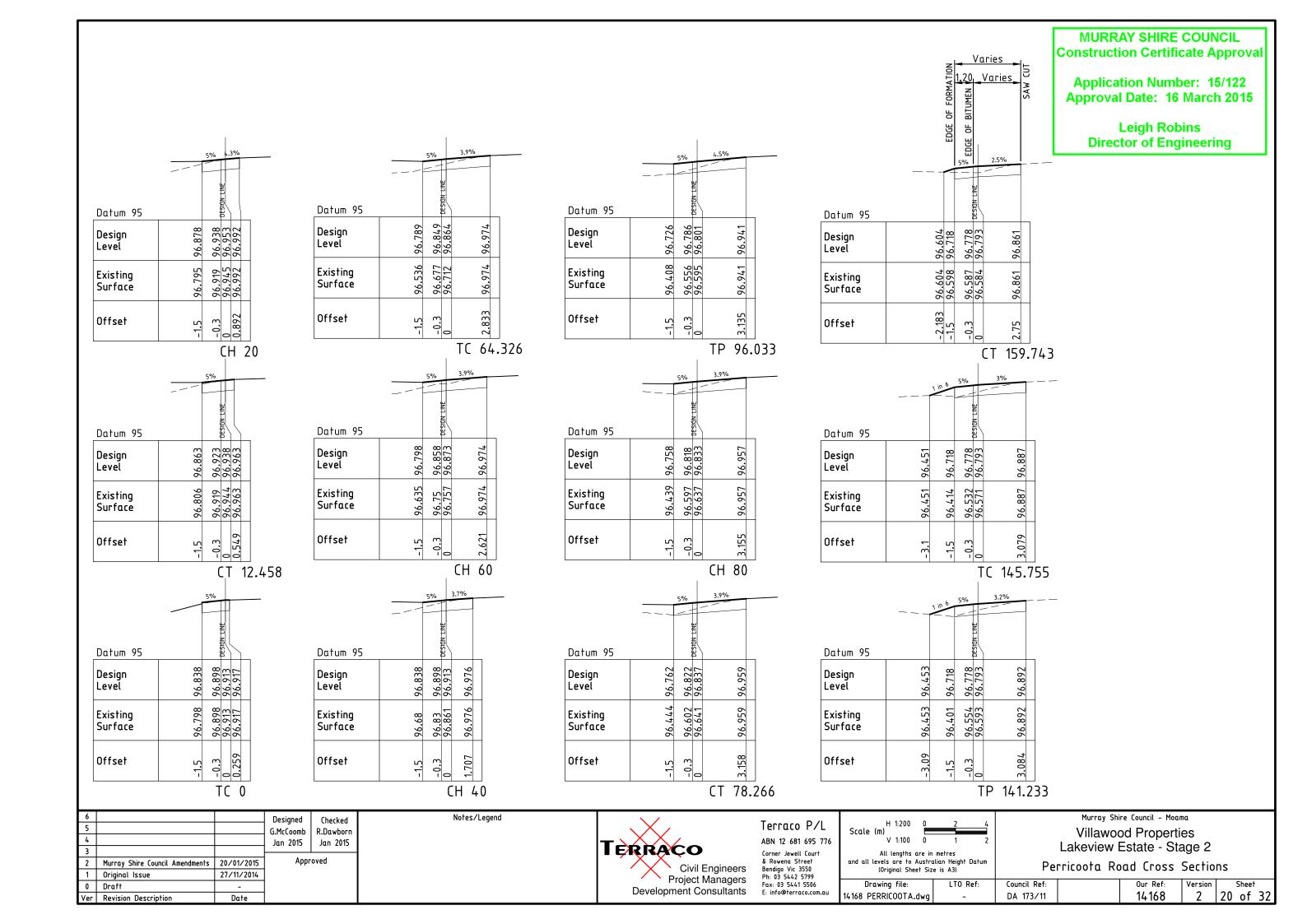
Marsanne Drive Cross Sections

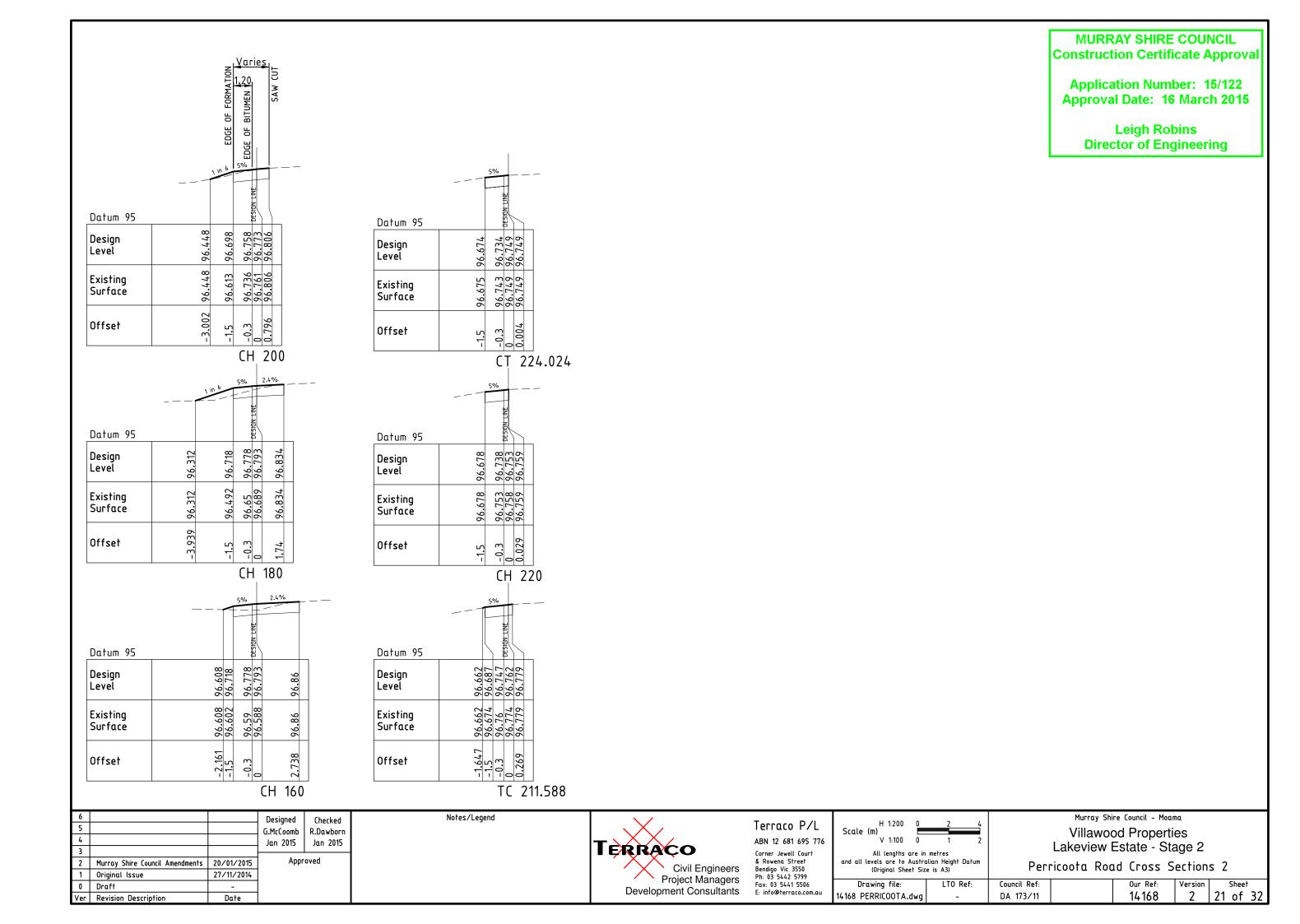
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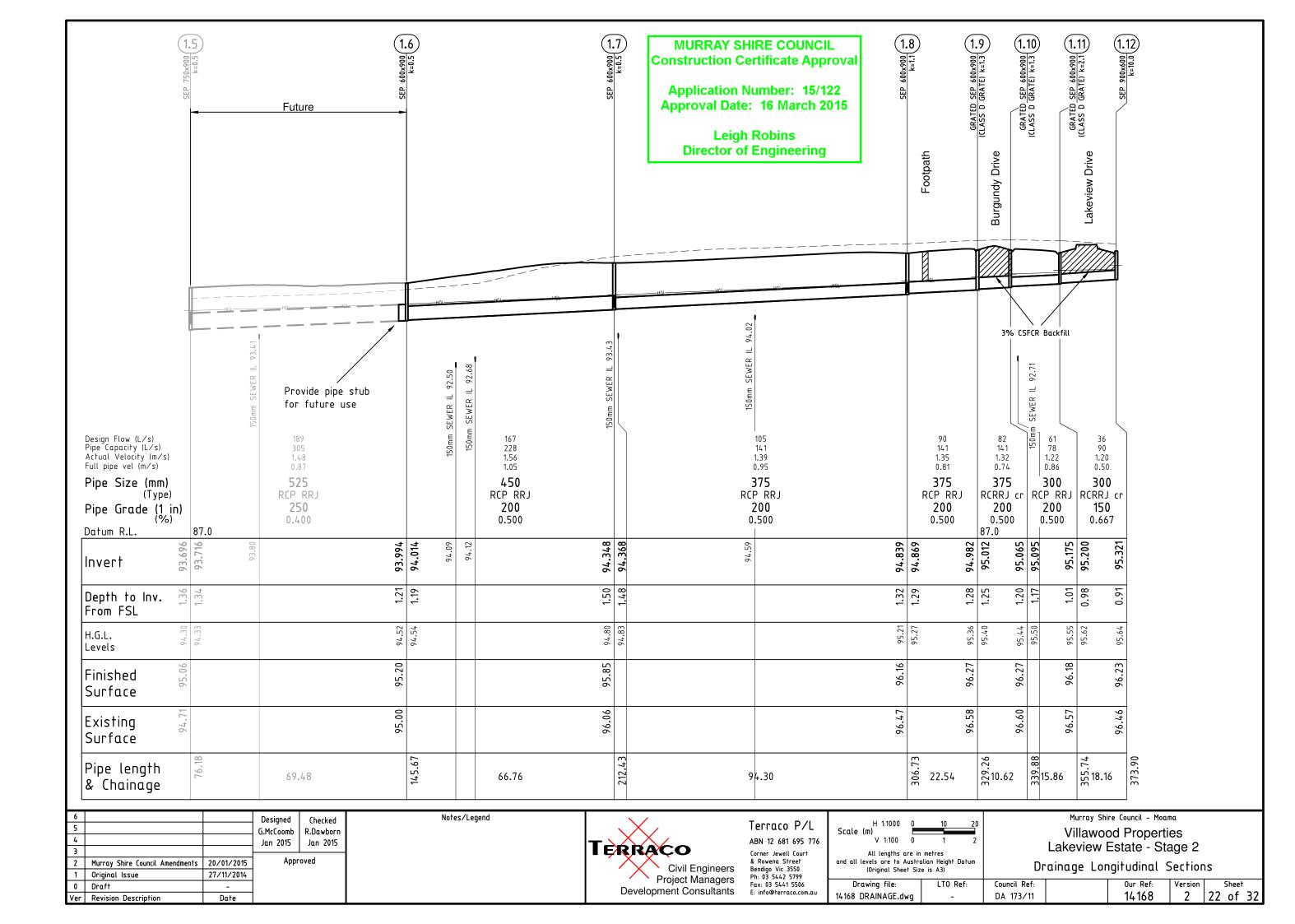
Drawing file: LTO Ref: 14168 MARSANNE.dwg

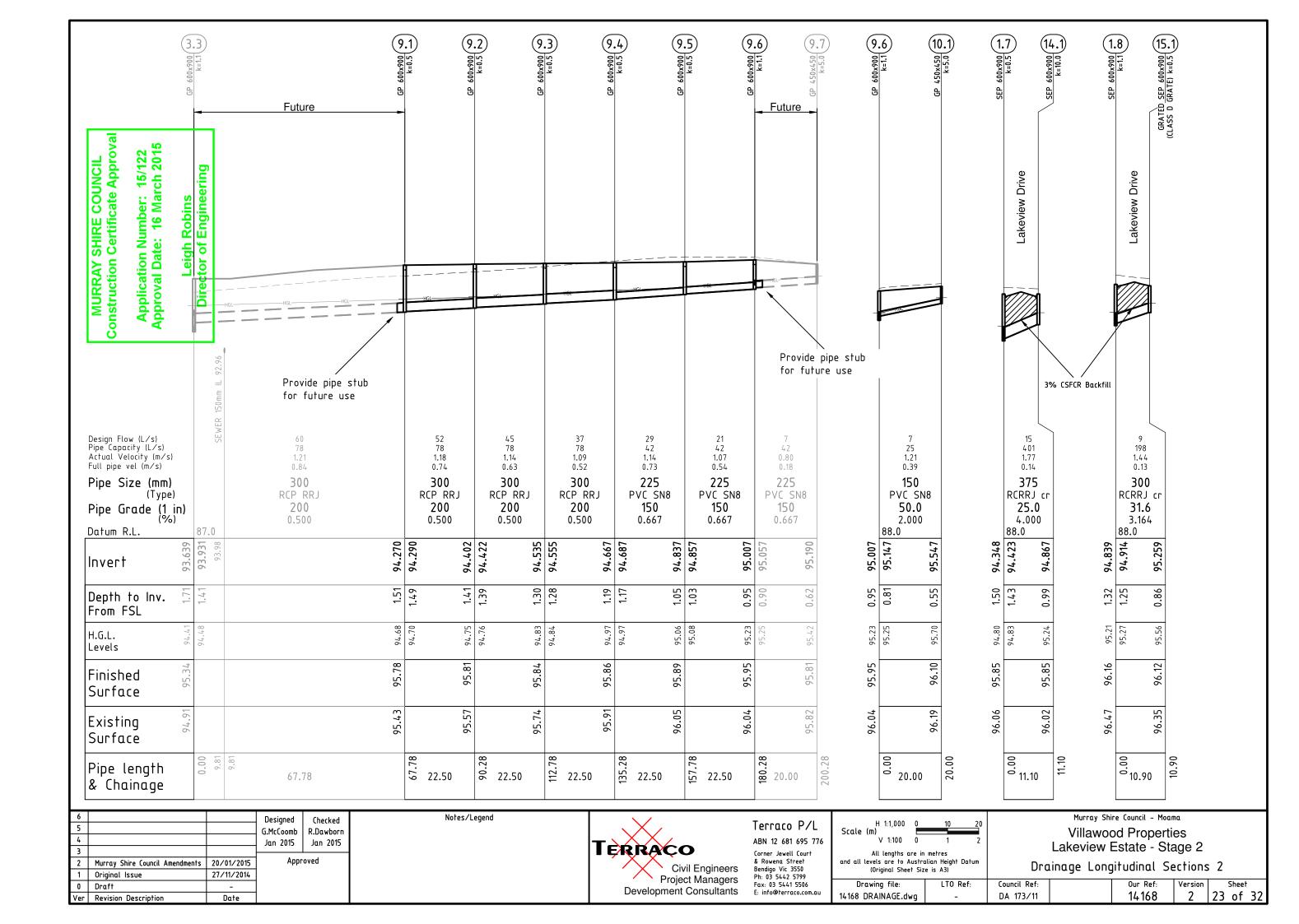
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<u>PIT SCHEDULE</u>

Pit Name	TYPE	EASTING	NORTHING	INTERNAL WD	LEN	INLET DIA	INV LEV	OUTLET	INV IFV	PIT SETOUT RL	DEPTH	REMARKS
Nume	1112	LASTING	NONTHING	****	LLIN	DIA	1111	DIA	1144 224	SETOOT KE	DETTI	KLIIAKKS
1.12	Side Entry Pit	296145.571	6002914.981	0.600	0.900			300	95.321	96.233	0.912	
1.11 Gr	ated Side Entry Pit	296134.823	6002929.617	0.600	0.900	300	95.200	300	95.175	96.181	1.006	CLASS D GRATE
1.10 Gr	ated Side Entry Pit	296135.231	6002945.470	0.600	0.900	300	95.095	3 7 5	95.065	96.269	1.203	CLASS D GRATE
1.9 Gr	ated Side Entry Pit	296143.470	6002952.174	0.600	0.900	3 7 5	95.012	3 7 5	94.982	96.267	1.284	CLASS D GRATE
1.8	Side Entry Pit	296165.999	6002951.647	0.600	0.900	3 7 5	94.869	3 7 5	94.839	96.163	1.324	
1.8	Side Entry Pit	296165.999	6002951.647	0.600	0.900	300	94.914			96.163	1.324	
1.7	Side Entry Pit	296239.345	6003010.917	0.600	0.900	3 7 5	94.368	450	94.348	95.853	1.505	
1.7	Side Entry Pit	296239.345	6003010.917	0.600	0.900	3 7 5	94.423			95.853	1.505	
1 . 6	Side Entry Pit	296291.052	6003053.144	0.600	0.900	450	94.014	5 2 5	93.994	95.200	1.206	
9.6	Grated Pit	296220.527	6002925.210		0.900	2 2 5	95.057	2 2 5	95.007		0.946	
9.6	Grated Pit	296220.527	6002925.210		0.900	150	95.147			95.953	0.946	
9.5	Grated Pit	296237.957	6002939.438		0.900	2 2 5		2 2 5	94.837		1.052	
9.4	Grated Pit	296255.388	6002953.665		0.900	2 2 5	94.687	300	94.667		1.189	
9.3	Grated Pit	296272.818	6002967.893	0.600	0.900	300	94.555	300	94.535	95.837	1.302	
9.2	Grated Pit	296290.249	6002982.120	0.600	0.900	300	94.422	300	94.402	95.814	1.412	
9.1	Grated Pit	296307.680	6002996.348	0.600	0.900	300	94.290	300	94.270	95.780	1.511	
10.1	Grated Pit	296207.875	6002940.701	0.450	0.450			150	95.547	96.099	0.552	
14.1	Side Entry Pit	296246.364	6003002.318	0.600	0.900			375	94.867	95.853	0.986	
15.1 Gr	ated Side Entry Pit	296173.192	6002943.453	0.600	0.900			300	95.259	96.115	0.856	CLASS D GRATE

- xy setout to pit centre
 setout level to pit cover level

NOTE: THE TOP OF ALL GRATES MUST BE 150mm BELOW THE FINISHED SURFACE LEVEL

6		Designed	Checked	Notes/Legend	\ /	T D.//				Murray Shir	re Council – Mod	ama	
5		G.McCoomb	R.Dawborn		X/	Terraco P/L				Villawoo	od Propert	ties	
4		Jan 2015	Jan 2015		TERRACO	ABN 12 681 695 776				Lakeview E			
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2 Murray Shire Council Amendments	20/01/2015	Аррі	roved		Civil Engineers	& Rowena Street Bendigo Vic 3550	and all levels are to Austro (Original Sheet Siz		Pit Schedule				
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Ver Revision Description	Date				Development Consultants	E: info@terraco.com.au	14168 DRAINAGE.dwg	-	DA 173/11		14168	2	24 of 32

GENERAL NOTES

- 1. All works are to be carried out in accordance with Murray Shire Council and current Water Services Association of Australia standards and specifications.
- 2. Contract is in accordance with AS2124-1992.
- 3. The contractor must locate all services prior to commencement of any works.
- 4. Sewers are to be 150mm Ø uPVC RRJ class SN8 (SEH grade) unless shown otherwise.
- 5. Sewer Jump Up levels shown refer to the required level at the property connection point 1.0m inside the property boundary. All Jump Ups to be brought up a minimum of 1.0m above the surface.
- 6. All sewer manhole covers to be solid ductile iron Class D cover and frame with concrete surround.
- 7. The level of all existing outfall sewers must be checked by the contractor prior to work commencing.
- 8. The contractor must adhere to the code of practise as "Excavation Work Code of Practice" under section 274 of the Work Health and Safety Act 2011. All workers on this site must have a current WH&S General Induction for Construction Work in NSW Certificate (White Card).
- 9. The contractor is not permitted to break into an existing live pipeline, enter a live manhole, or remove the cover of an existing live manhole unless given permission by the Supervising Engineer.
- 10. All properties are to be fully reinstated to the satisfaction of the Supervising
- 11. All new sewers must be pressure tested. Where the contractor does not have a Quality Assurance system in place, all pipes must be inspected by the Supervising
- 12. Confined Space Entry must be in accordance with Work Health and Safety requirements. Contractor must not enter a Confined Space until all required information has been submitted to Terraco.
- 13. All hatched areas on longitudinal sections indicate 20mm Class 3 FCR backfill.
- 14. All future stub end to be capped.
- 15. All sewer pipes are to be inspected by CCTV after installation, with a copy to be provided to the Murray Shire Council.

Notes/Legend

Asset Recording Requirements

The contractor must record all construction details including invert levels and locations of manholes, sewer ends and oblique branches, and testing details, using appropriate "line sheets".

The information is to be provided to the supervising engineer in a suitable form to enable detailed "as constructed" plans to be produced. Line sheets are available from Terraco, or the contractor may use their own if approved by Terraco prior to works commencing. The information is to be provided within 1 week of the completion of the works. Claims for payment for construction may be delayed until the line sheets have been received by the supervising engineer.

The following standard backfill requirements apply to all

- a) Minimum bedding sand under pipe 75mm
- b) Minimum sand backfill above pipe 100mm
- c) Minimum sand backfill either side of pipe 100mm For concrete pipes:
 - - c) Minimum sand backfill either side of pipe 100mm

Select backfill to 100mm above the pipe. Should the

trenching works. For PVC pipes:

a) Minimum bedding sand under pipe – 75mm

b) Minimum sand backfill to string line.

excavated material be unsuitable, sand backfill to be provided a minimum 100mm above the pipe.

6 5			Designed G.McCoomb	Checked R.Dawborn	
4			Jan 2015	Jan 2015	
3					l
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& Rowena Street Bendigo Vic 3550 Ph: 03 5442 5799 Fax: 03 5441 5506 E: info@terraco.com.au All lengths are in metres

levels are to Australian Height Datum (Original Sheet Size is A3)

14168 SEWER.dwa

Murray Shire Council - Moama Villawood Properties Lakeview Estate - Stage 2

Sewer Notes

Council Ref:

DA 173/11

Our Ref: Version Sheet 14168 2 25 of 32

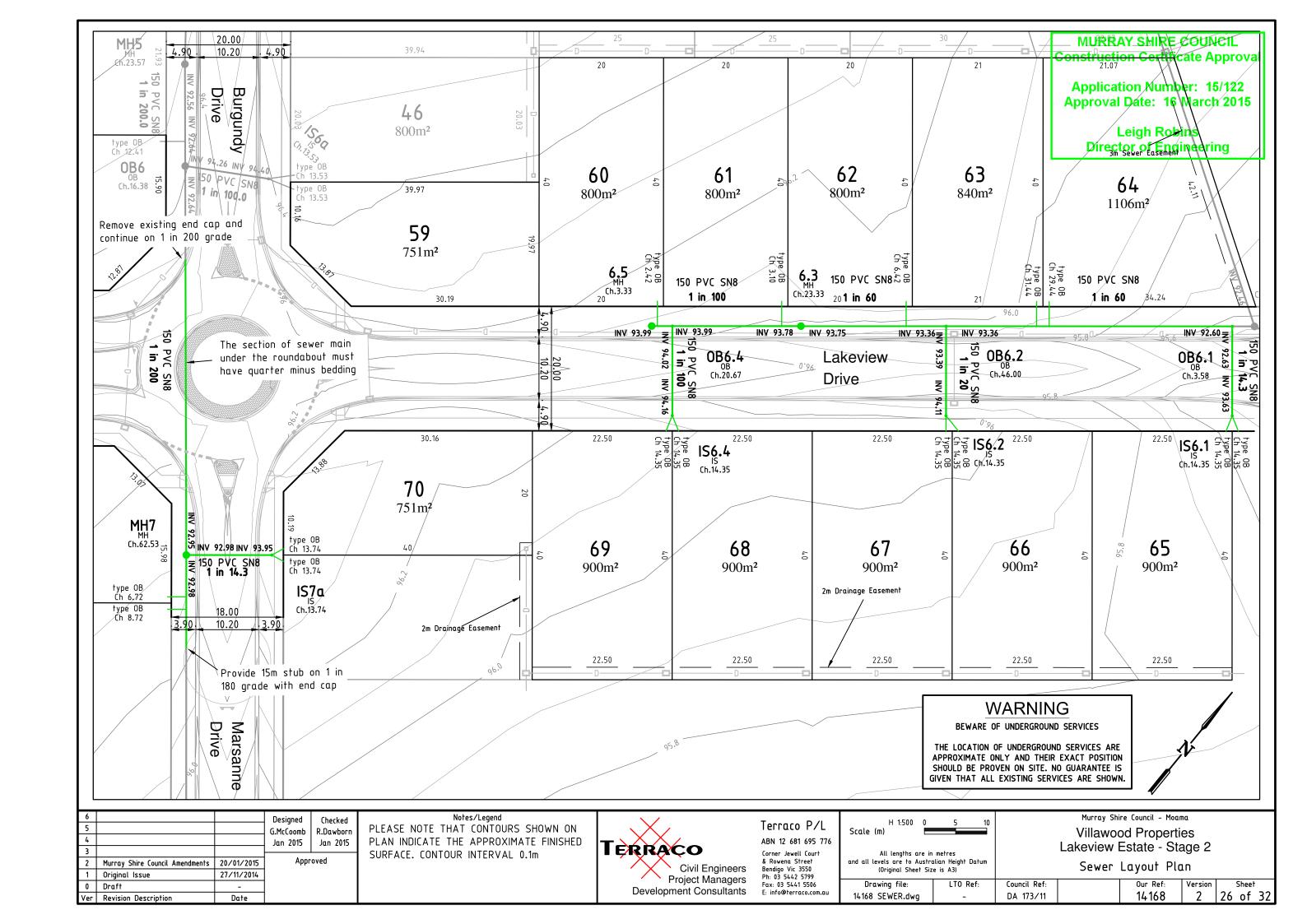
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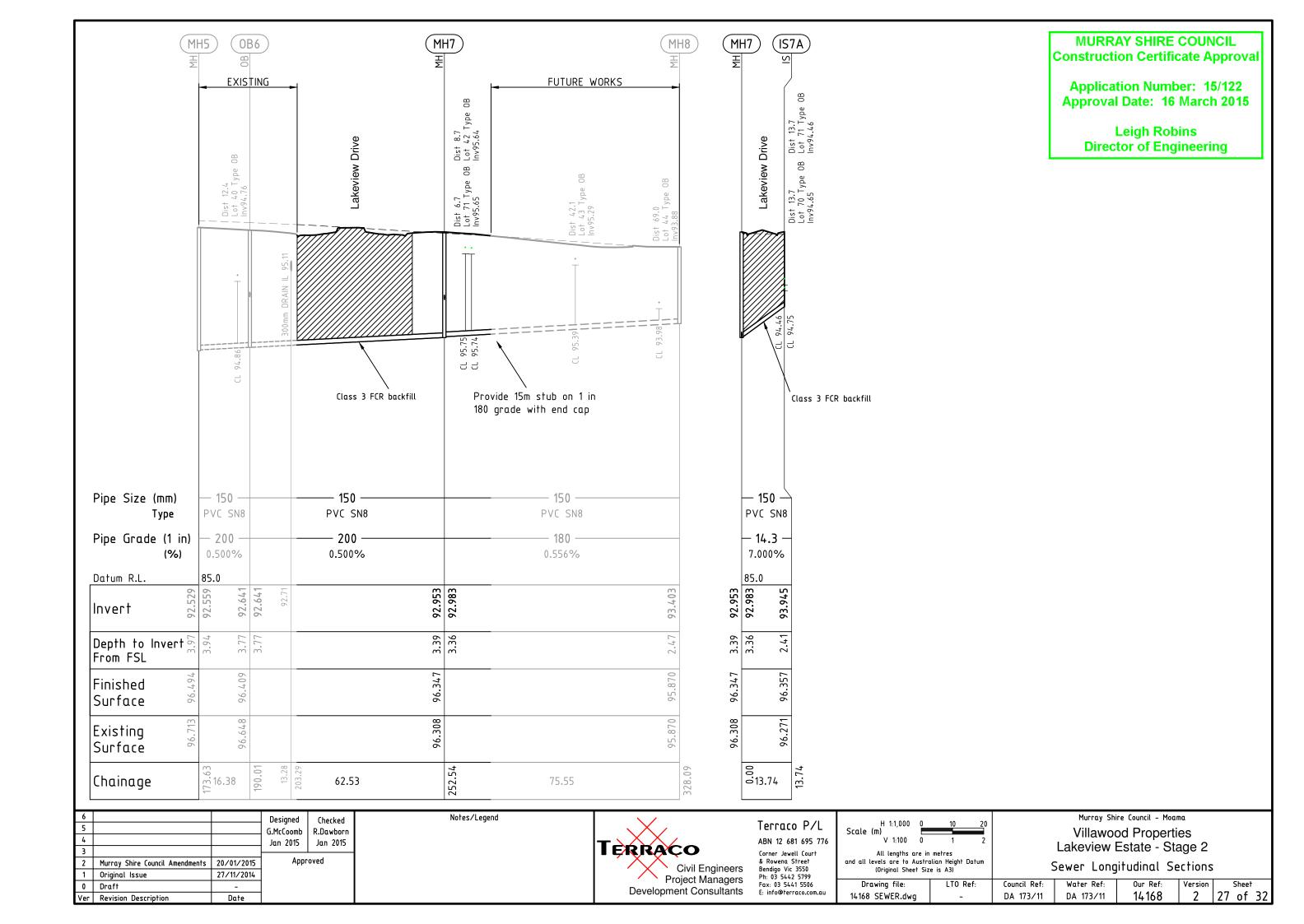
Application Number: 15/122

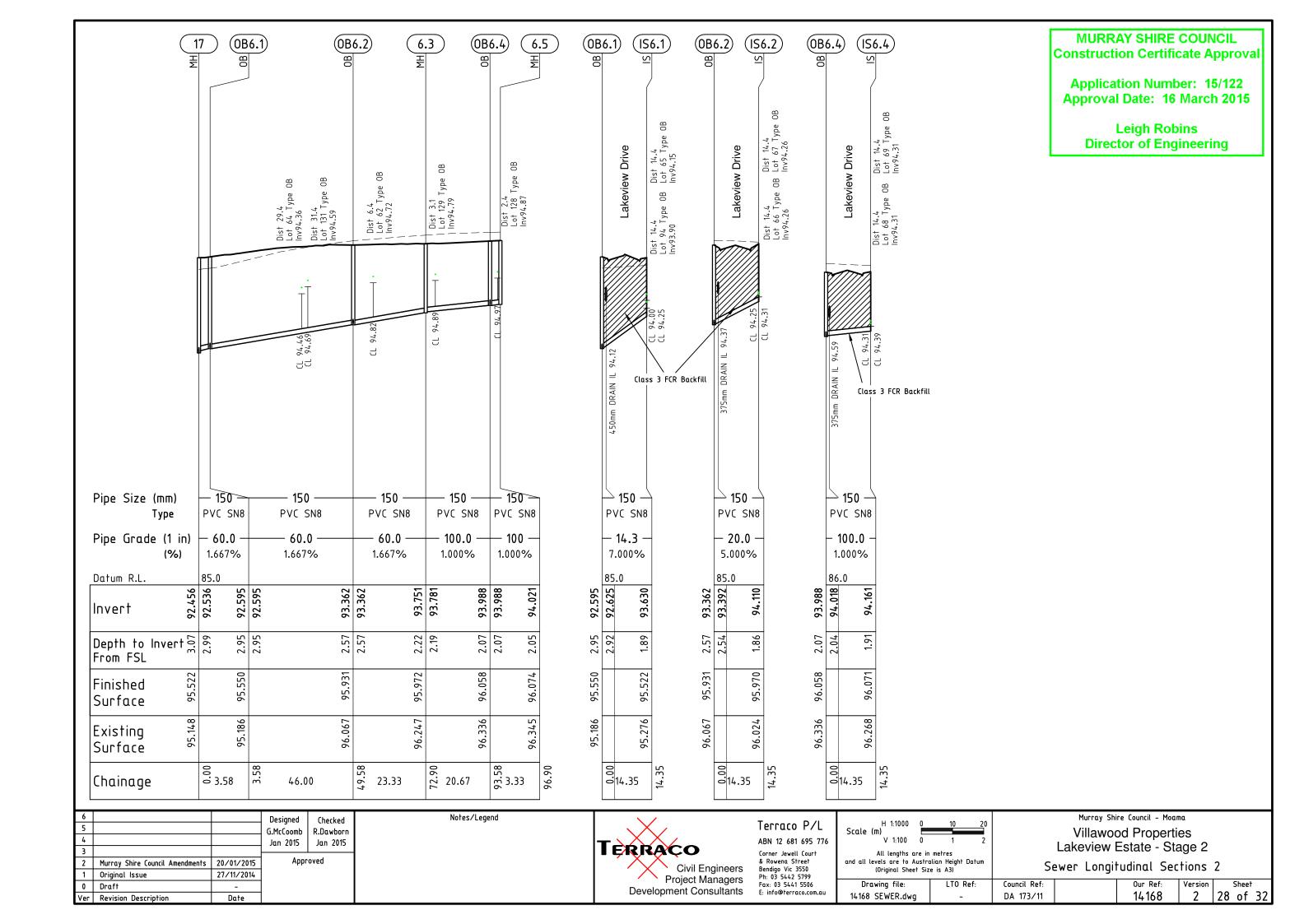
Approval Date: 16 March 2015

Leigh Robins

Director of Engineering







WATER MAIN NOTES

- 1. Water Main offset to be 2.9m (Filtered) and 3.3m (Raw) unless shown otherwise.
- 2. All works are to be carried out in accordance with the current standard's of Murray Shire Council.
- 3. Contract is in accordance with AS2124-1992.
- 4. The Contractor must locate all services prior to works commencing.
- 5. All water service road crossings to be 32mm PN8 poly (if two properties being connected) or 25mm PN8 poly (if single property connected). Each service to be sleeved in 50mm Class 12 uPVC.
- 6. The Contractor must supply all assemblies, cast iron covers, surrounds and indicator posts for stop valves (SV) and hydrants (HYD).
- 7. All water mains to be RRJ PVC-M Series 1 Class 9 except under road pavement where Series 1 Class 12 is to be used.
- 8. Water tappings (Treated and Raw) including tapping saddles and 20mm dia. copper service connections, meter cock (treated) and ball valve quick action (raw) to be provided 1.0m within each lot. Tapping saddles are to be gunmetal style only. See Standard Drawing.
- 9. Water meter stop taps are to be installed on filtered water connections.
- 10. Ball valves quick action are to be installed on raw water connections
- 11. All stop valves are to be Anti Clockwise Closing (ACC).
- 12. All services to be installed to provide minimum cover to finished surface.
- 13. All road crossing trenches to be compacted to a minimum of 95% standard compaction ratio.
- 14. All road crossings for services to be backfilled with 3% stabilised FCR.

The following standard backfill requirements apply to all trenching works.

For PVC pipes:

- a) Minimum bedding sand under pipe 75mm
- b) Minimum sand backfill above pipe 100mm
- c) Minimum sand backfill either side of pipe 100mm

For concrete pipes:

- a) Minimum bedding sand under pipe 75mm
- b) Minimum sand backfill to string line.
- c) Minimum sand backfill either side of pipe 100mm
- Select backfill to 100mm above the pipe. Should the excavated material be unsuitable, sand backfill to be provided a minimum 100mm above the pipe.

MURRAY SHIRE COUNCIL
Construction Certificate Approval

Application Number: 15/122 Approval Date: 16 March 2015

Leigh Robins Director of Engineering

Asset Recording Requirements

The contractor must record all construction details including offsets of mains and locations of fittings such as valves, tees fire plugs etc, and testing details, using appropriate "line sheets".

The information is to be provided to the supervising engineer in a suitable form to enable detailed "as constructed" plans to be produced.

TOTAL WORK

SIZE	TYPE	CLASS	LENGTH (m)			
100mm	PVC-M	9	378			
100mm	PVC-M	12	83			

Street	Back of Kerb	Filt. Water	Raw Water	Gas	Power	Telstra	Sewer
Lakeview Drive	4.30 & 4.90	2.90 SE	3.30 SE	3.80 SE	0.90 NW	1.40 NW	3.15 NW
Burgundy Drive	4.90	2.30 NE	2.70 NE	3.20 NE	0.90 SW	1.40 SW	3.15 SW
Marsanne Drive	3.90	2.30 NE	2.70 NE	3.20 NE	0.90 SW	1.40 SW	2.40 SW

Service Offsets

6			Designed Ch	hecked	Notes/Legend	\ /	T D (1				Murray Shire Council - Moar	ma	
5			G.McCoomb R.D			$\times \times$	Terraco P/L			Villawood Properties			
4			Jan 2015 Jar	ın 2015		T	ABN 12 681 695 776			1.			
3						IERRACO	Corner Jewell Court	All lengths are in	metres	Lakeview Estate - Stage 2			
2	Murray Shire Council Amendments	20/01/2015	Approved	i		Civil Engineers	& Rowena Street Bendigo Vic 3550	and all levels are to Australian Height Datum		Water Notes			
1	Original Issue	27/11/2014				Project Managers	Ph: 03 5442 5799	(Original Sheet Size is A3)			Water Hores		
0	Draft	-				,	Fax: 03 5441 5506	Drawing file:	LTO Ref:	Council Ref:	Our Ref:	Version	1
Ver	Revision Description	Date				Development Consultants	E: info@terraco.com.au	14168 WATER.dwg	-	DA 173/11	14168	2	29 of 32

