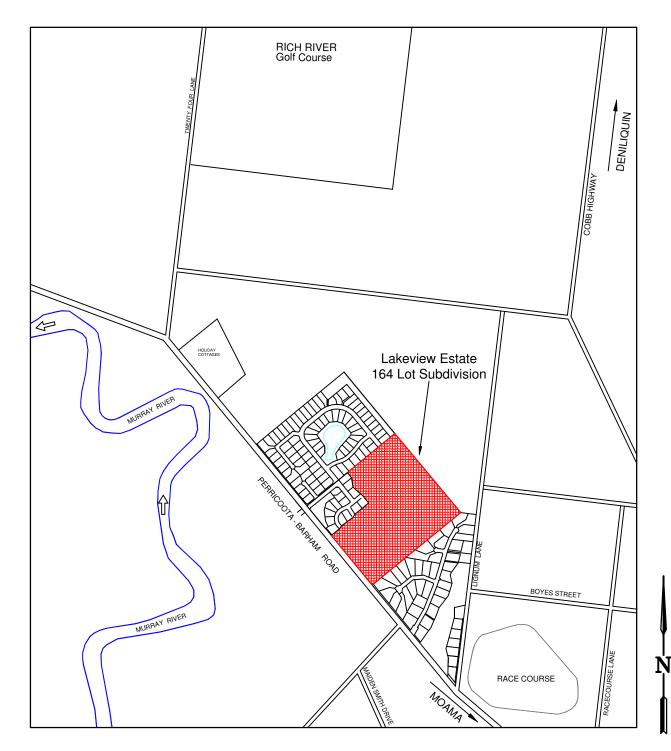


Villawood Properties Pty Ltd Lakeview Estate - Stage 4

Construction Certificate Approve Application Number: 16/172

Drawing file:	LTO Ref:	Council Ref:	Ref:	Version	Ì
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Locality Plan - Ascot

NOT TO SCALE

Notes/Legend

Sheet Index

Sht Ver Description

- Index & Locality Plan
- General Notes & Kerb Detail
- Typical Cross Sections
- Overall Layout Plan
- Layout Plan
- Layout Plan 2
- Layout Plan 3
- Layout Plan 4
- Intersection Detail Plan
- **Durif Drive Longitudinal Section**
- **Durif Drive Cross Sections**
- **Durif Drive Cross Sections 2**
- **Durif Drive Cross Sections 3**
- 1 Apera Avenue Longitudinal Section
- Apera Avenue Cross Sections
- **Drainage Longitudinal Sections**
- Drainage Longitudinal Sections 2
- **Drainage Longitudinal Sections 3**
- Drainage Longitudinal Sections 4
- 1 Pit Schedule
- Sewer Notes 1
- Sewer Layout Plan
- Sewer Layout Plan 2
- Sewer Layout Plan 3
- Sewer Longitudinal Sections
- Sewer Longitudinal Sections 2
- Sewer Longitudinal Sections 3
- Sewer Longitudinal Sections 4
- Water Notes
- 1 Water Plan

MURRAY RIVER COUNCIL Construction Certificate Approval

Application Number: 16/172 Approval Date: 23 June 2016

Leigh Robins Director of Engineering

_			Designed	l Checked		
5			G.McCoomb	A.Mertens		
4			Mar 2016	Mar 2016		
3						
2			Approved			
1	MSC Amendments	24/03/2016				
0	Draft	08/03/2016				
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.au

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

16004 Notes.dwg

No Scale

Villawood Properties Pty Ltd Lakeview Estate - Stage 4

Council Ref:

DA 173/11

Index & Locality Plan

Our Ref: Version 16004

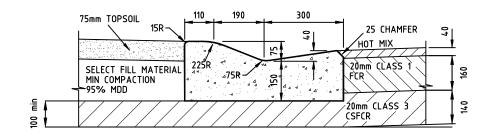
Murray Shire Council - Moama

Sheet 1 of 30

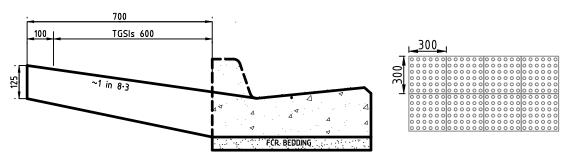
GENERAL NOTES

- 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 92 to 107.
- 3. The contractor must adhere to the code of practise for "Safety Precautions in Trenching Operations" under the "Work Health and Safety Act 2011". All workers on this site must have a current WH&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 Terra Firma pit lids.
- 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 200.
- 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 \emptyset copper service connections, meter stop tap (treated) and ball 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 ductile 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 Council.
- 28. Side entry pit throat clearance to be 100mm max.
- 29. All pit lids to be constructed by Terra Firma Industries.

KERB DETAIL



Modified SM2 kerb & channel details



Pedestrian crossing & TGSI details

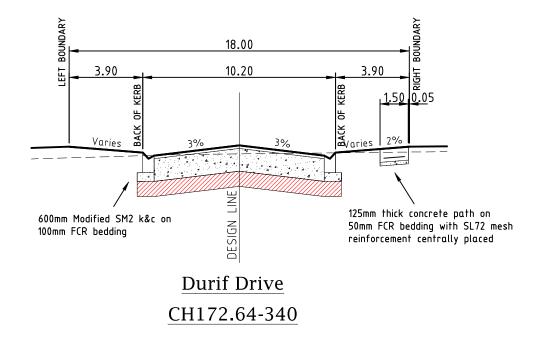
Refer to Infrastructure Design Manual SD120 for TGSI installation details

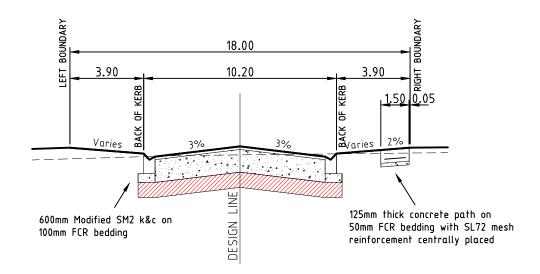
MURRAY RIVER COUNCIL
Construction Certificate Approval

Application Number: 16/172 Approval Date: 23 June 2016

Leigh Robins Director of Engineering

Murray Shire Council - Moama Notes/Legend Designed Checked Terraco P/L G.McCoomb A.Mertens No Scale Villawood Properties Pty Ltd ABN 12 681 695 776 Mar 2016 Mar 2016 TERRACO Lakeview Estate - Stage 4 Corner Jewell Court All lengths are in metres Approved & Rowena Street and all levels are to Australian Height Datur General Notes & Kerb Detail Civil Engineers Bendigo Vic 3550 (Original Sheet Size is A3) MSC Amendments 24/03/2016 Ph: 03 5442 5799 Project Managers Fax: 03 5441 5506 LTO Ref Council Ref Our Ref Version Sheet 0 Draft 08/03/2016 **Development Consultants** E: info@terraco.com.a 16004 2 of 30 Date 16004 Notes.dwa DA 173/11 1 Ver Revision Description





Apera Avenue CH13.16-80

Pavement Composition & Notes

- 1. PAVEMENT COMPOSITION (DURIF DRIVE & APERA AVENUE):
- a) 40mm DEPTH HOT MIX ASPHALT
- b) 160mm DEPTH CONSOLIDATED 20mm CLASS 1 FCR (BASE COURSE)
- c) 140mm DEPTH CONSOLIDATED 20mm CLASS 3 FCR (SUBBASE)
- d) A14 BIDIM NONWOVEN GEOTEXTILE
- e) 200mm DEPTH IN SITU STABILISTAION OF SUBGRADE MATERIAL (3% LIME & 1% CEMENT BY MASS)
- 2. 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.
- 3. Nature strips are to be topsoiled to a depth of approximately 100mm using material stockpiled from stripping, or approved imported material.

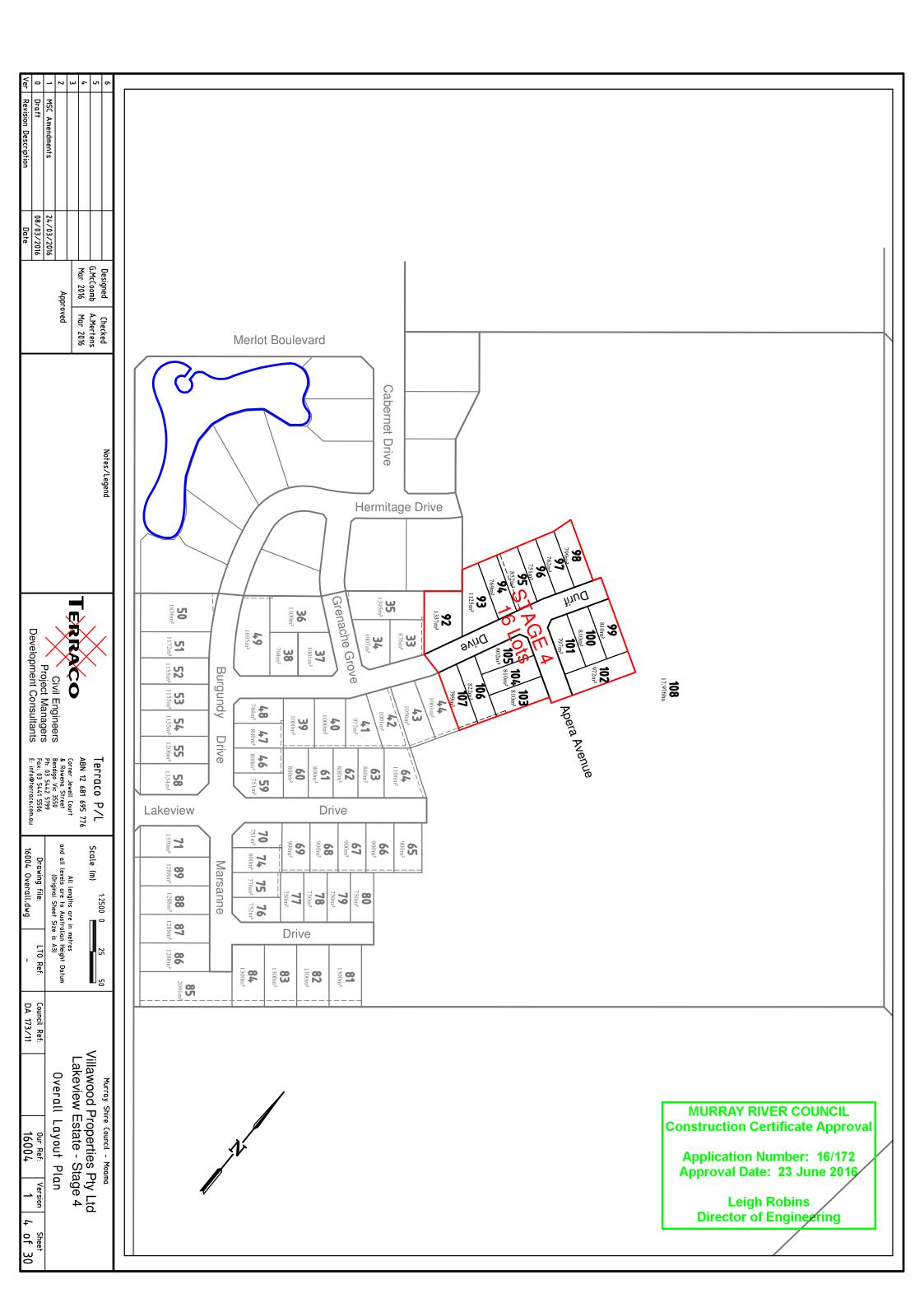
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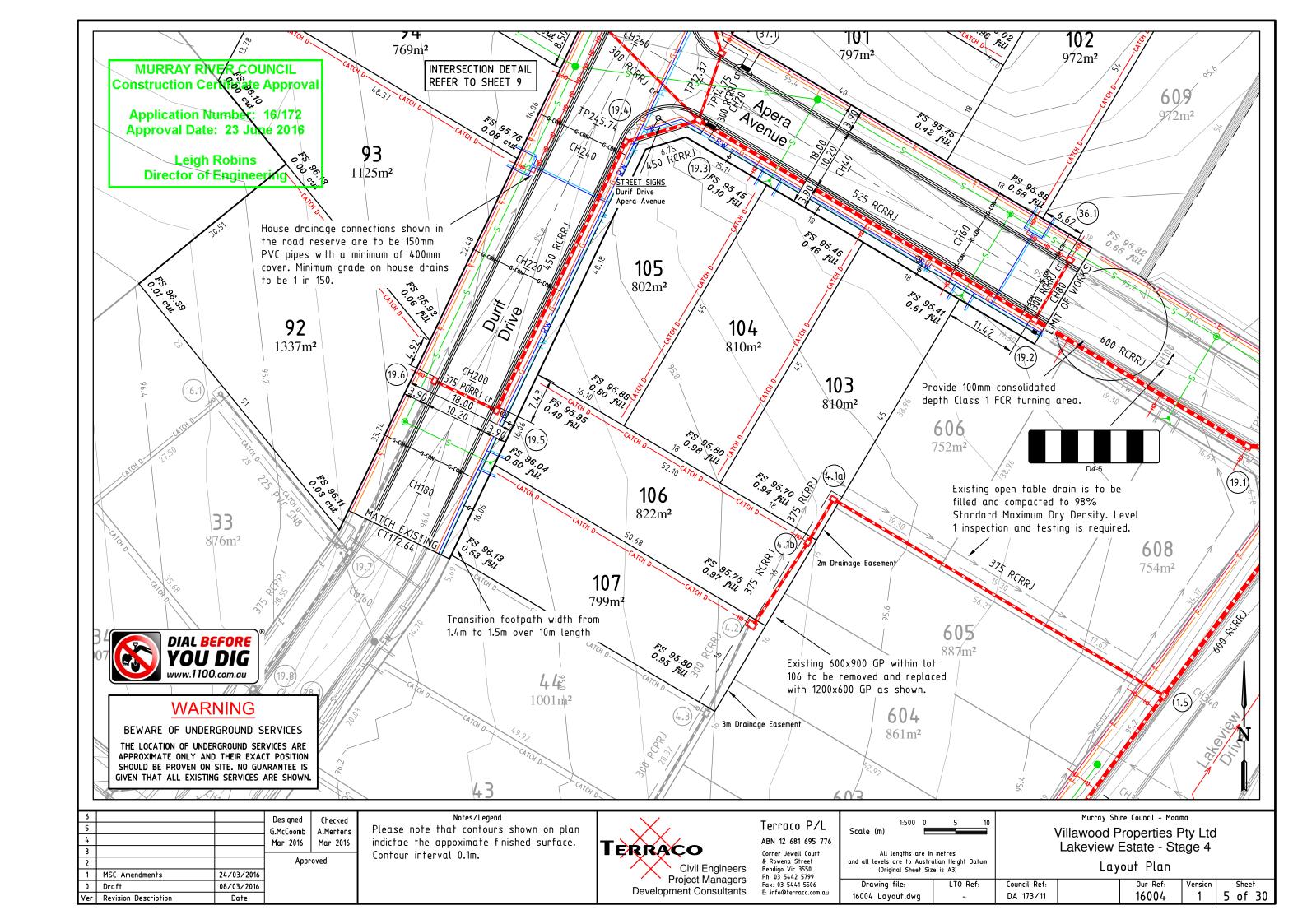
MURRAY RIVER COUNCIL Construction Certificate Approval

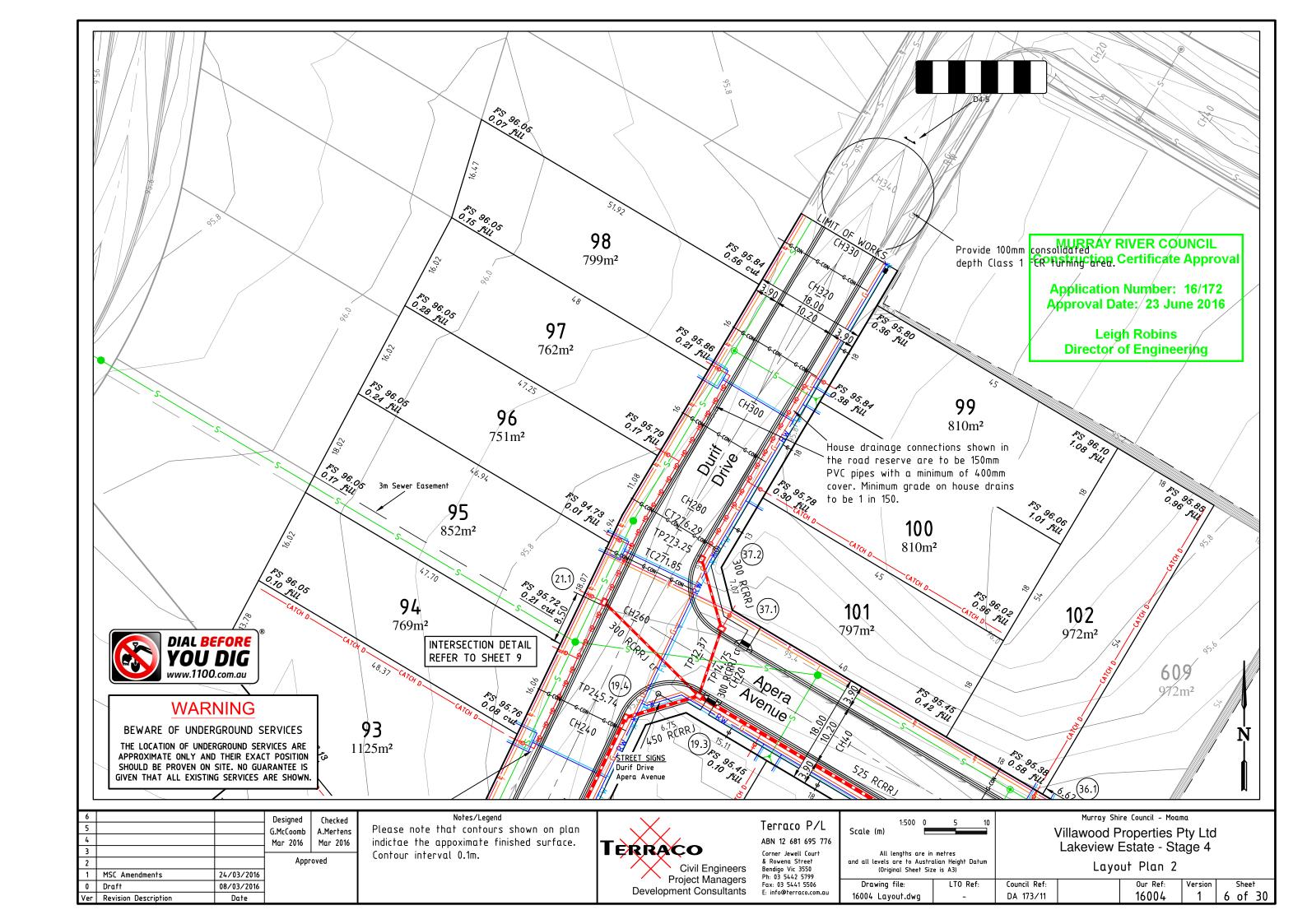
Application Number: 16/172 Approval Date: 23 June 2016

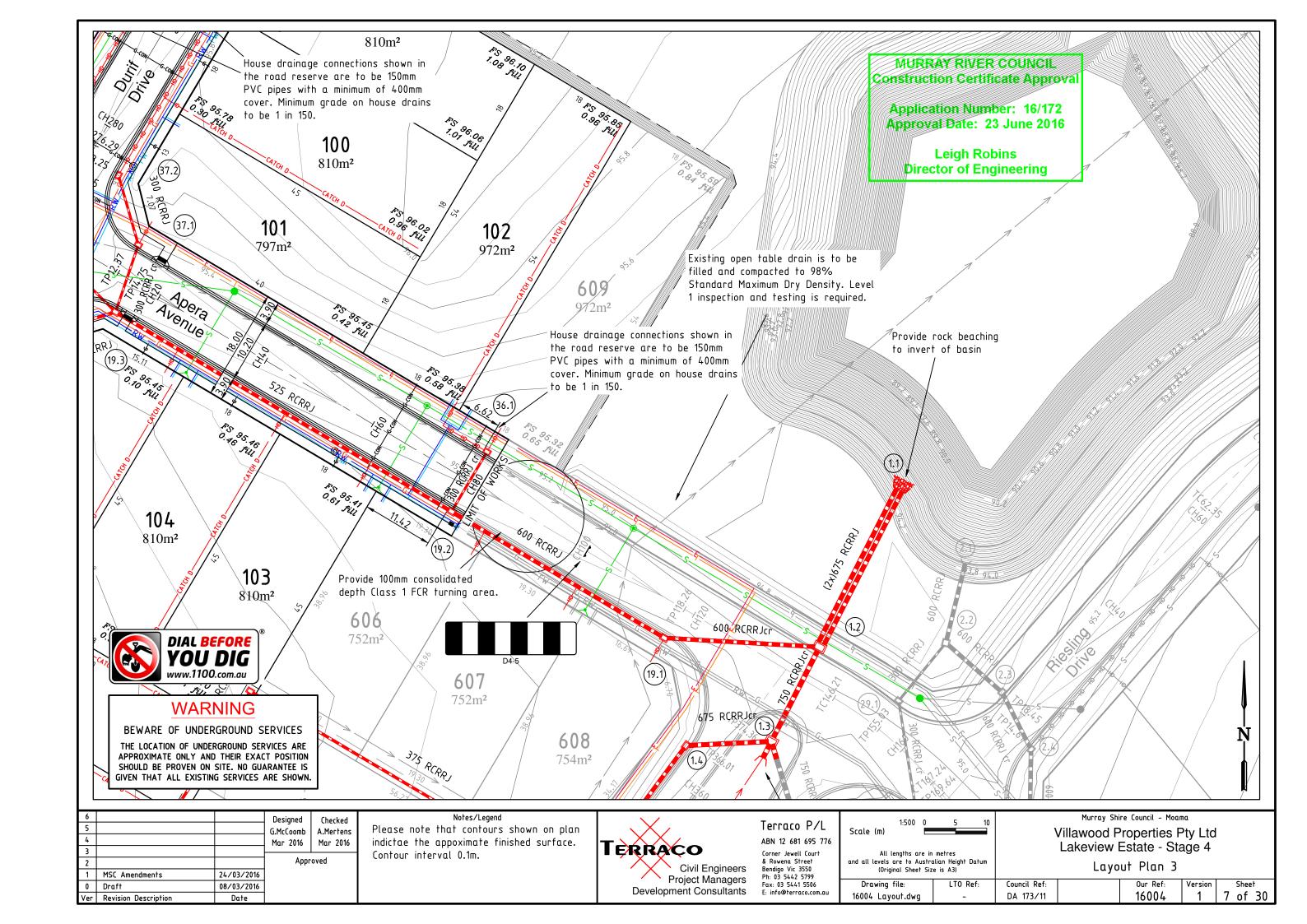
Leigh Robins
Director of Engineering

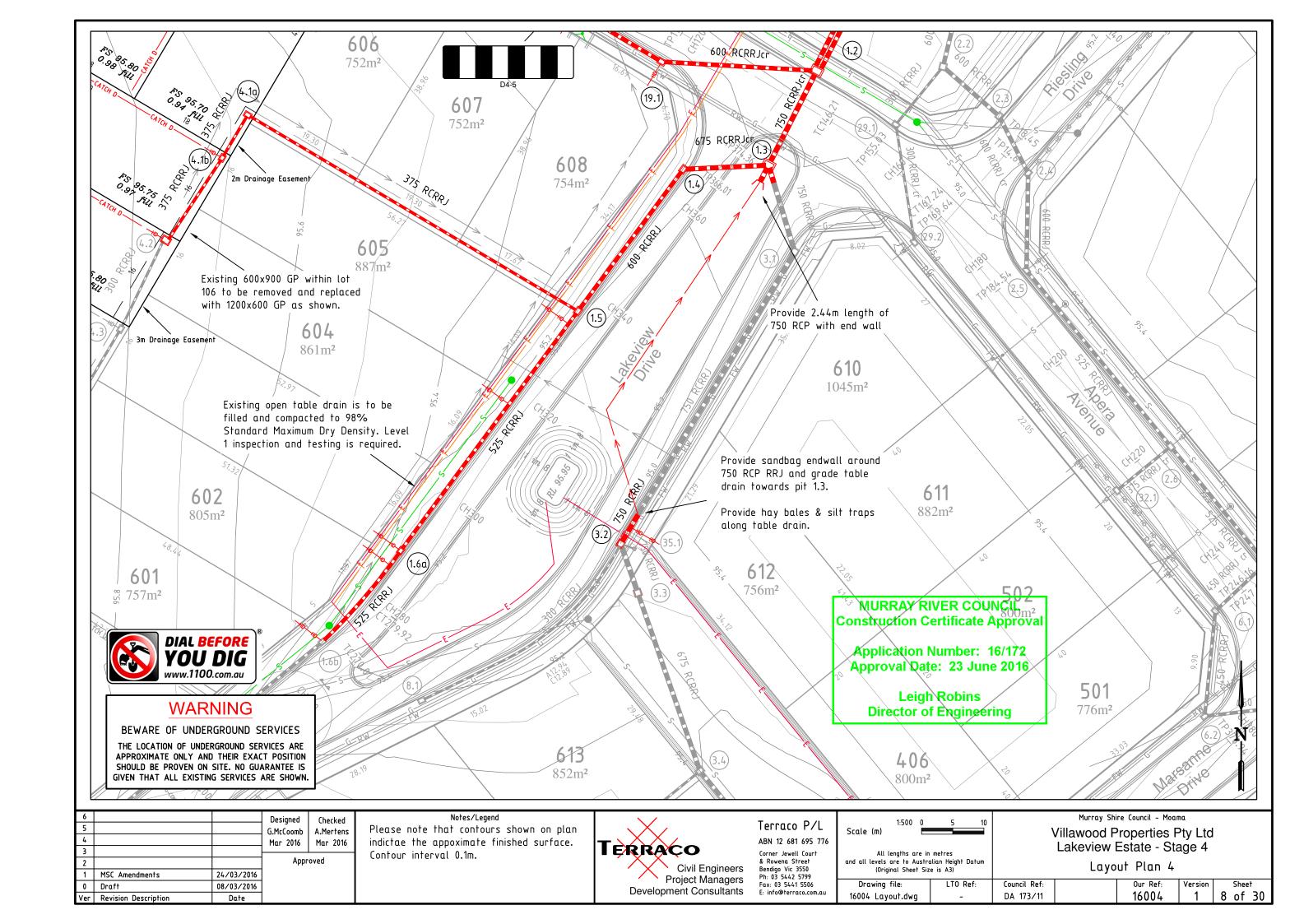
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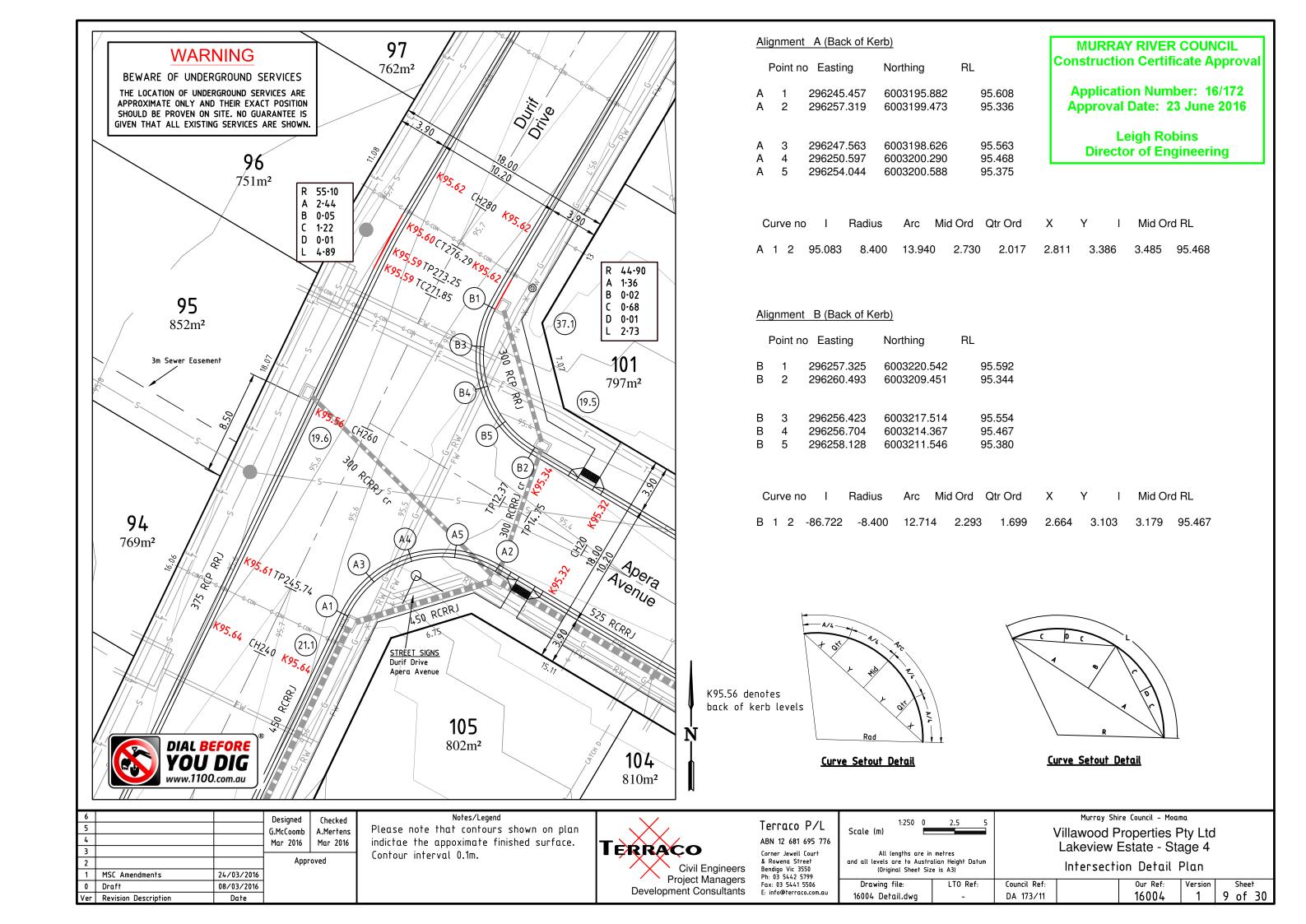


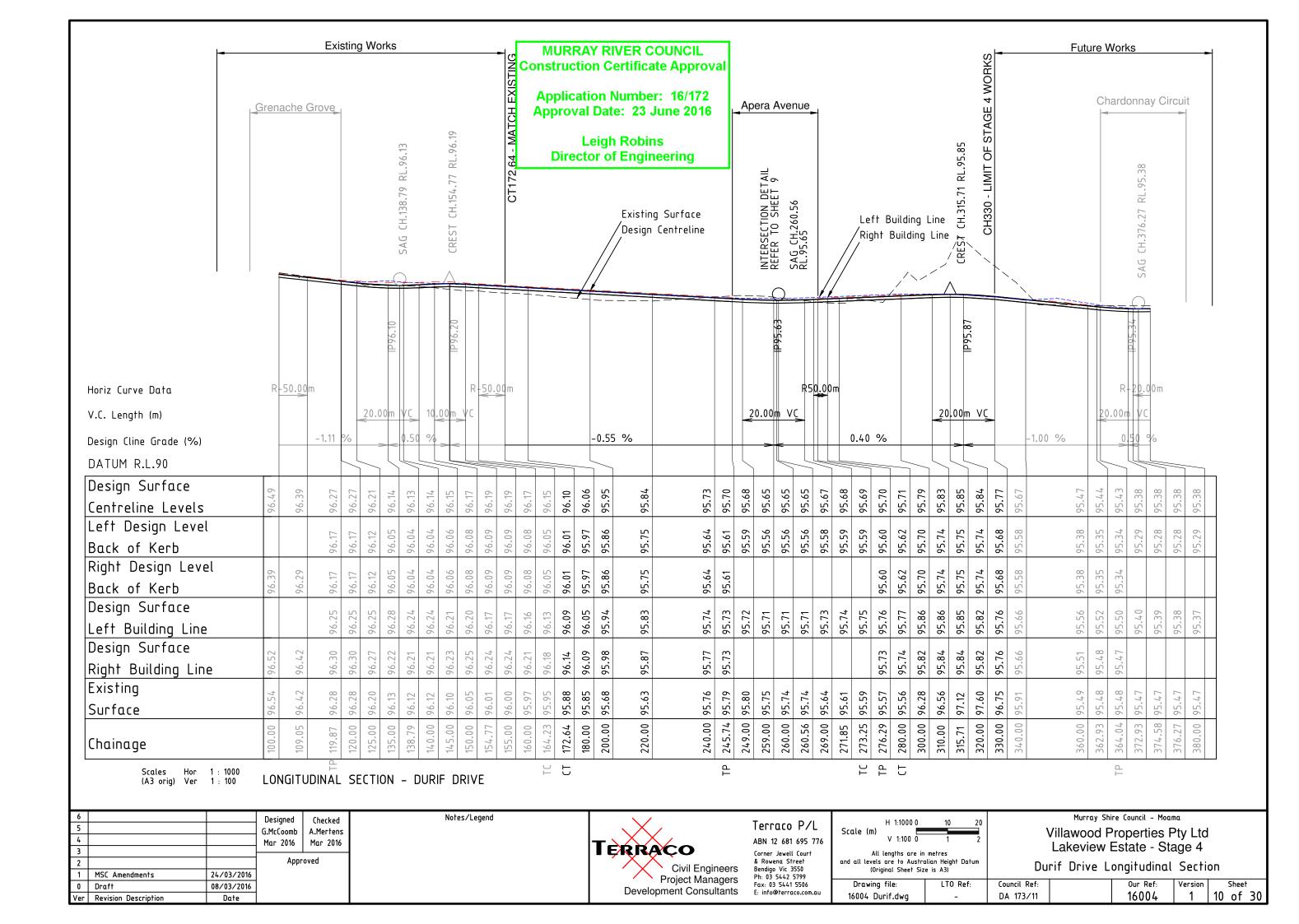


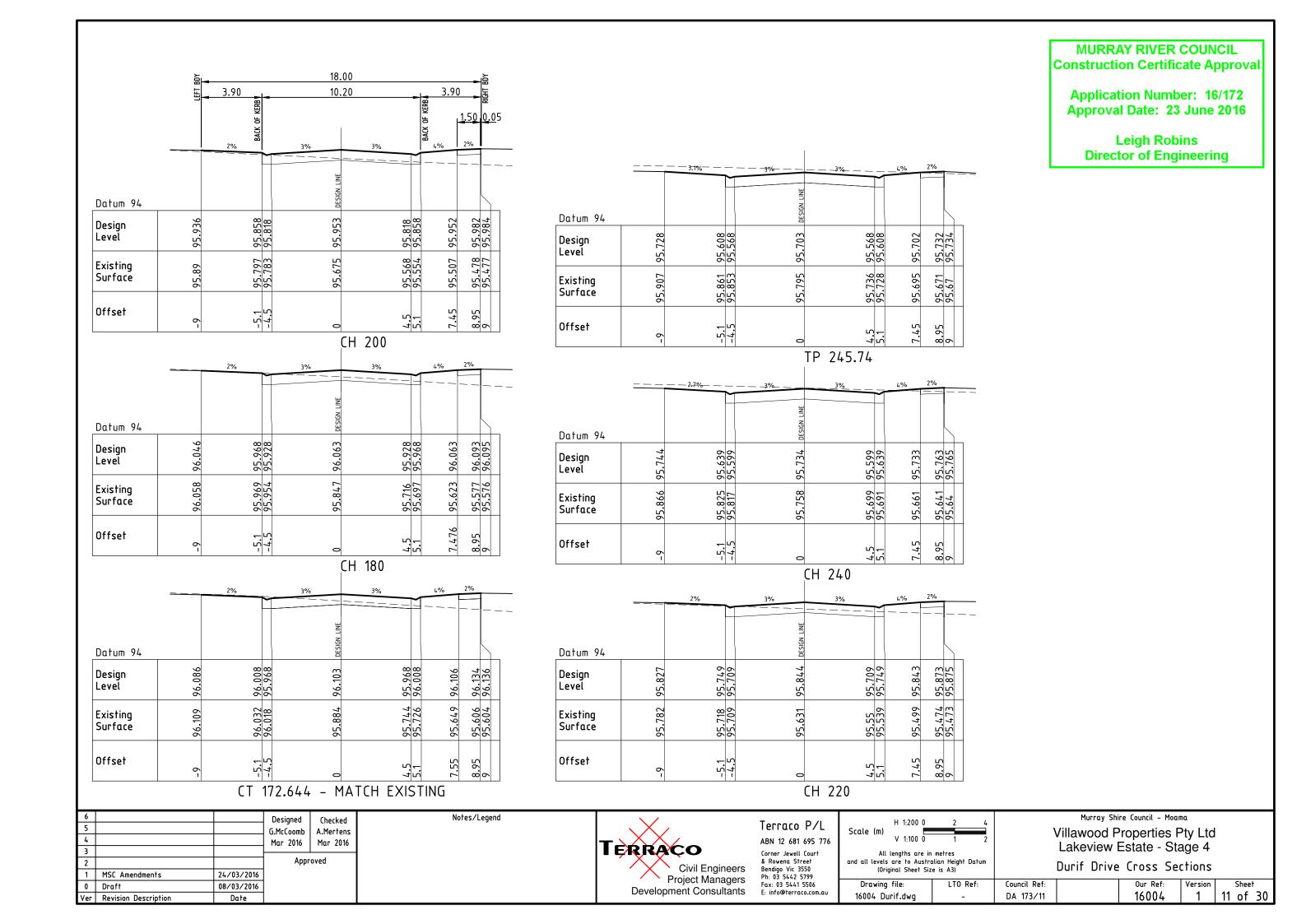


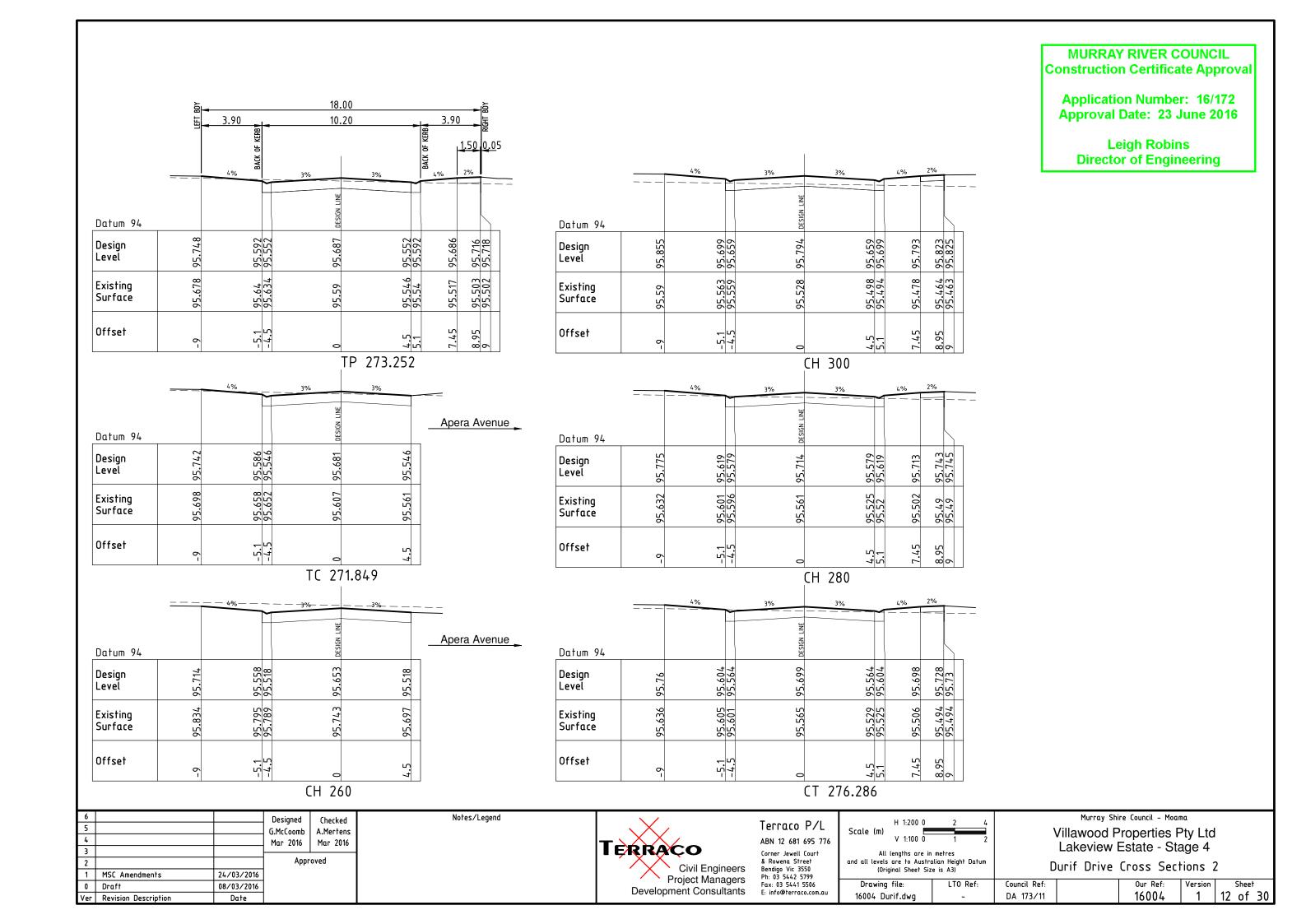








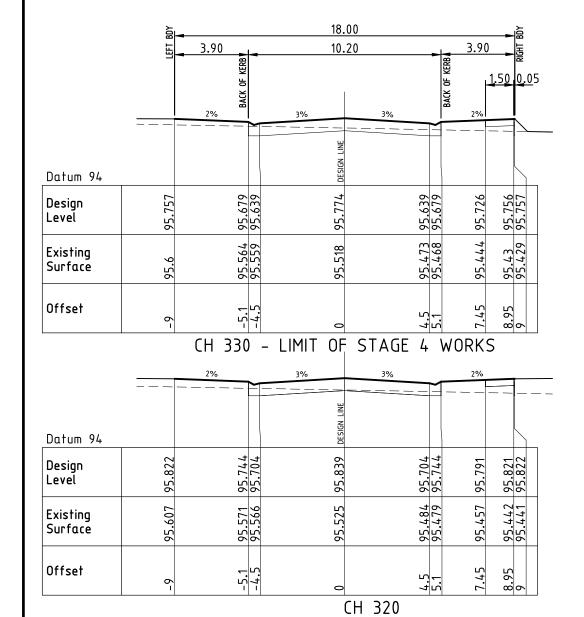




MURRAY RIVER COUNCIL Construction Certificate Approval

Application Number: 16/172 Approval Date: 23 June 2016

Leigh Robins
Director of Engineering



Designed

G.McCoomb

Mar 2016

24/03/2016

08/03/2016

Date

1 MSC Amendments

Ver Revision Description

0 Draft

Checked

A.Mertens

Mar 2016

Approved



Notes/Legend

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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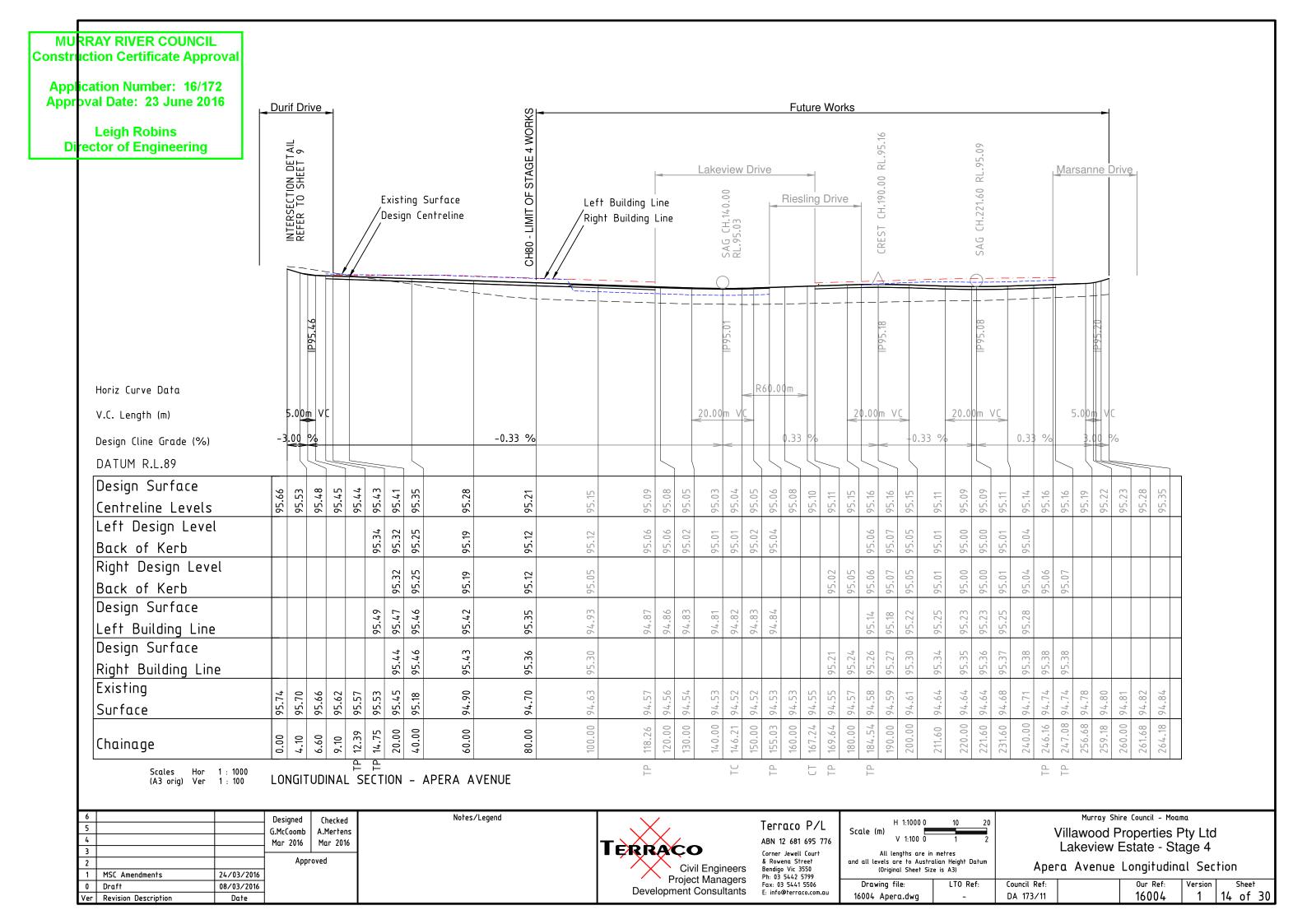
Villawood Properties Pty Ltd
Lakeview Estate - Stage 4

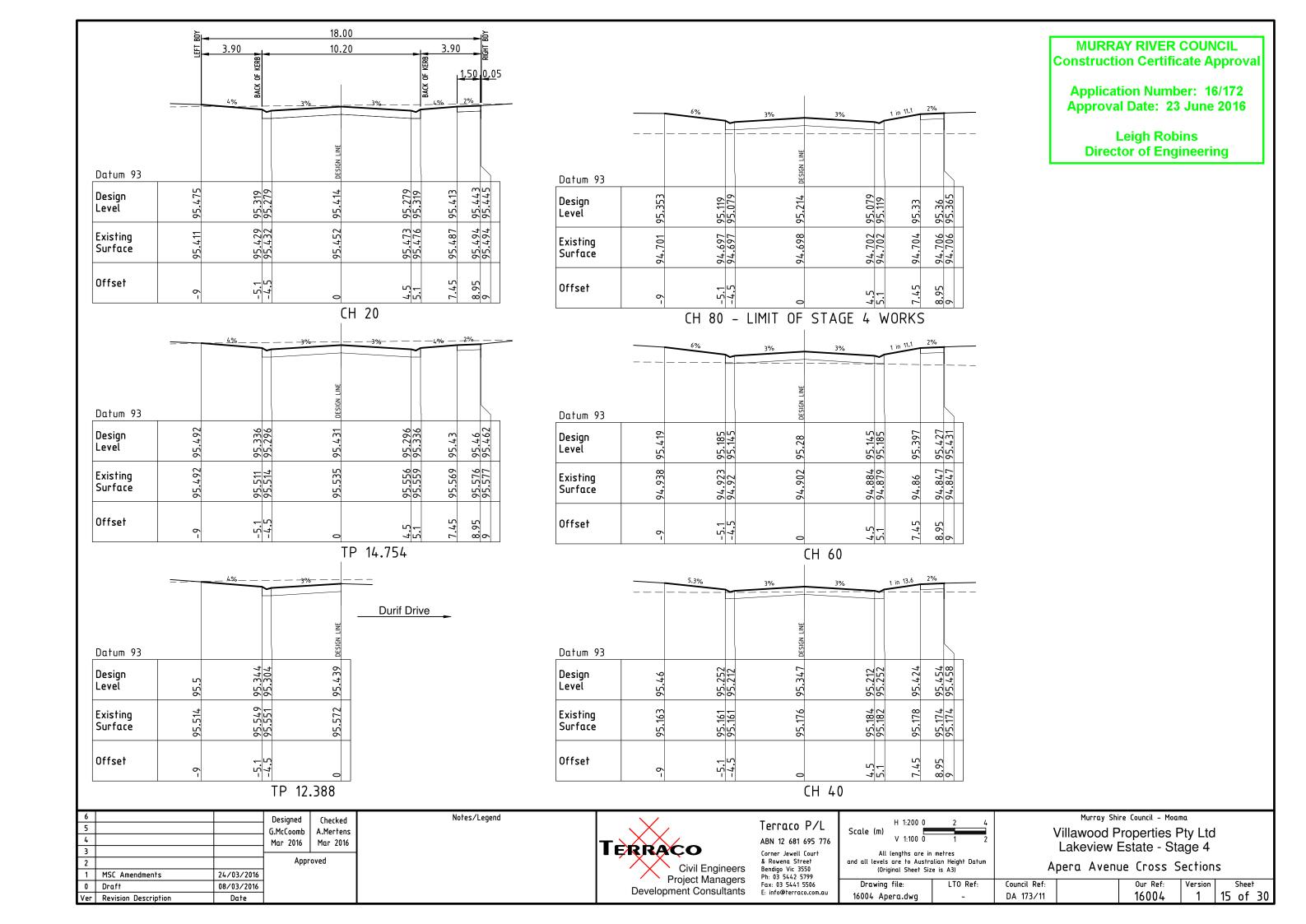
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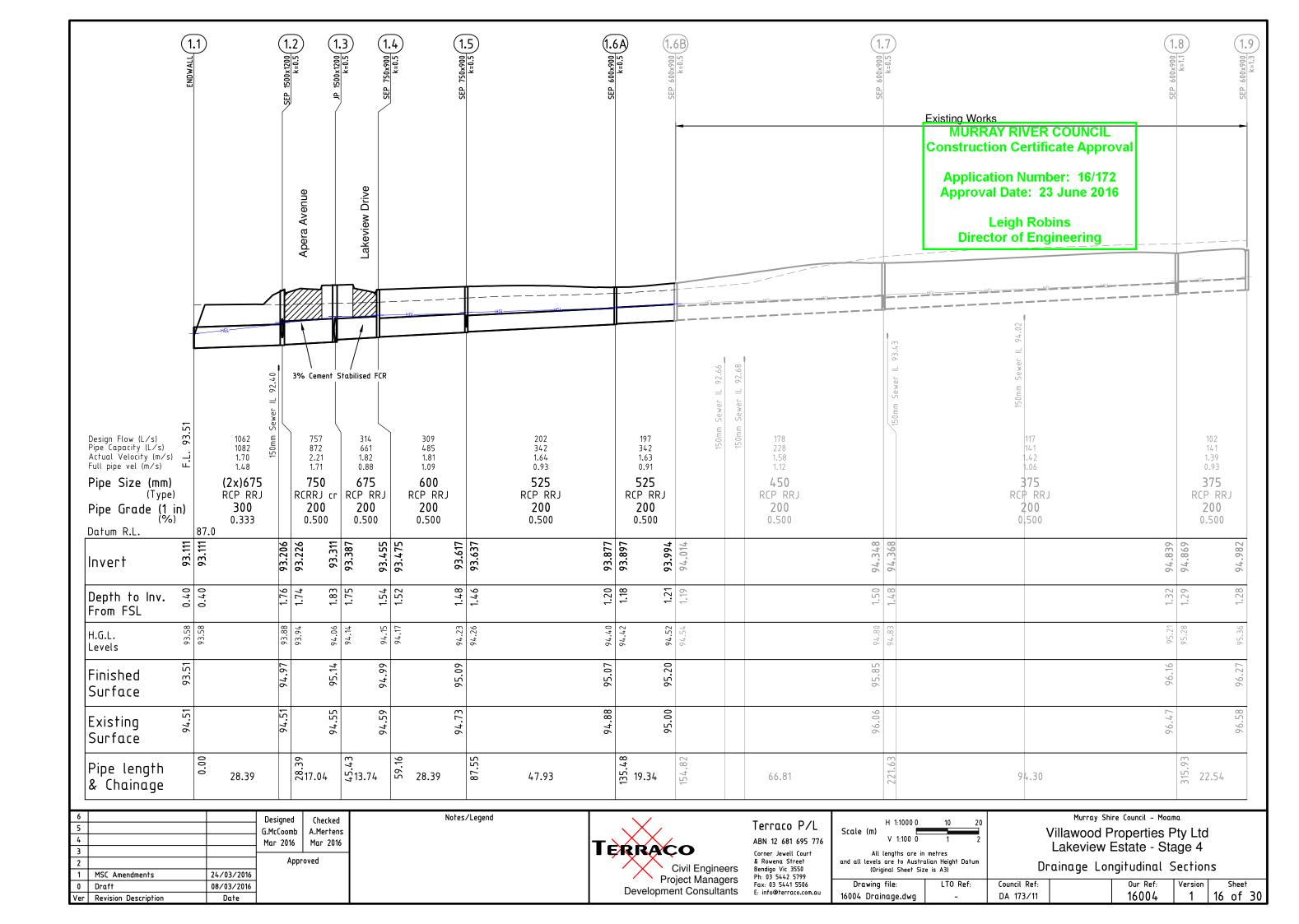
Murray Shire Council - Moama

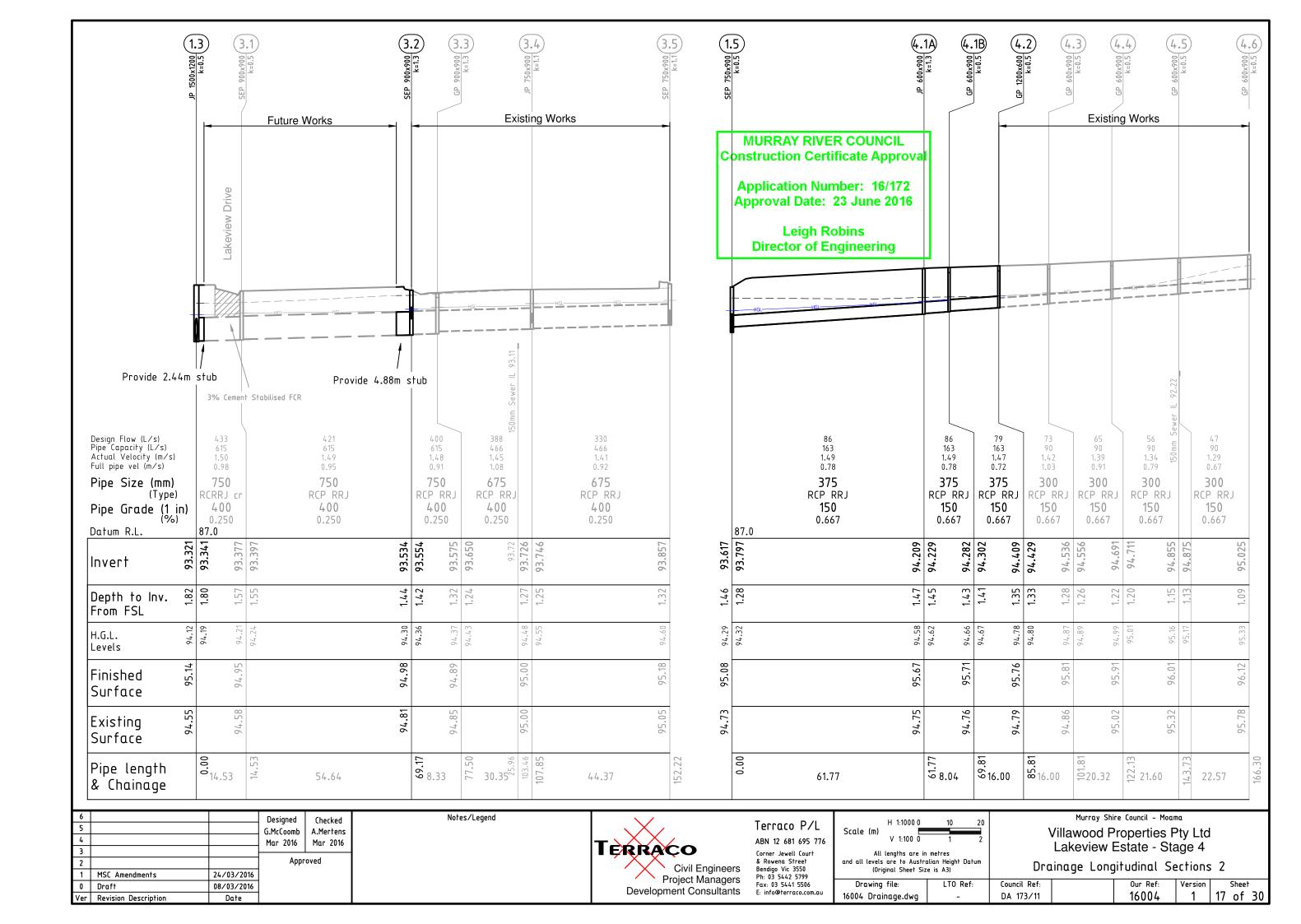
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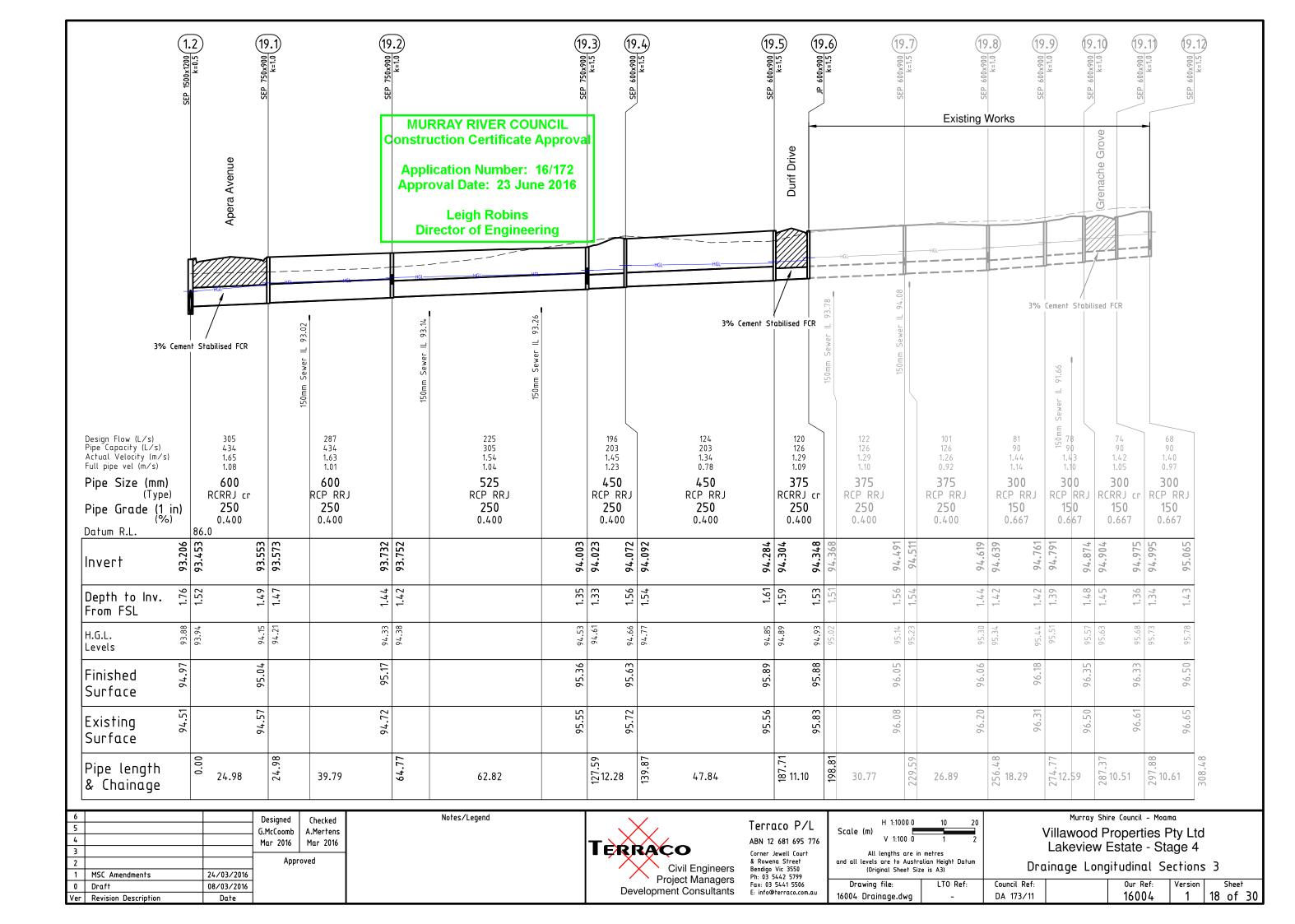
 DA 173/11
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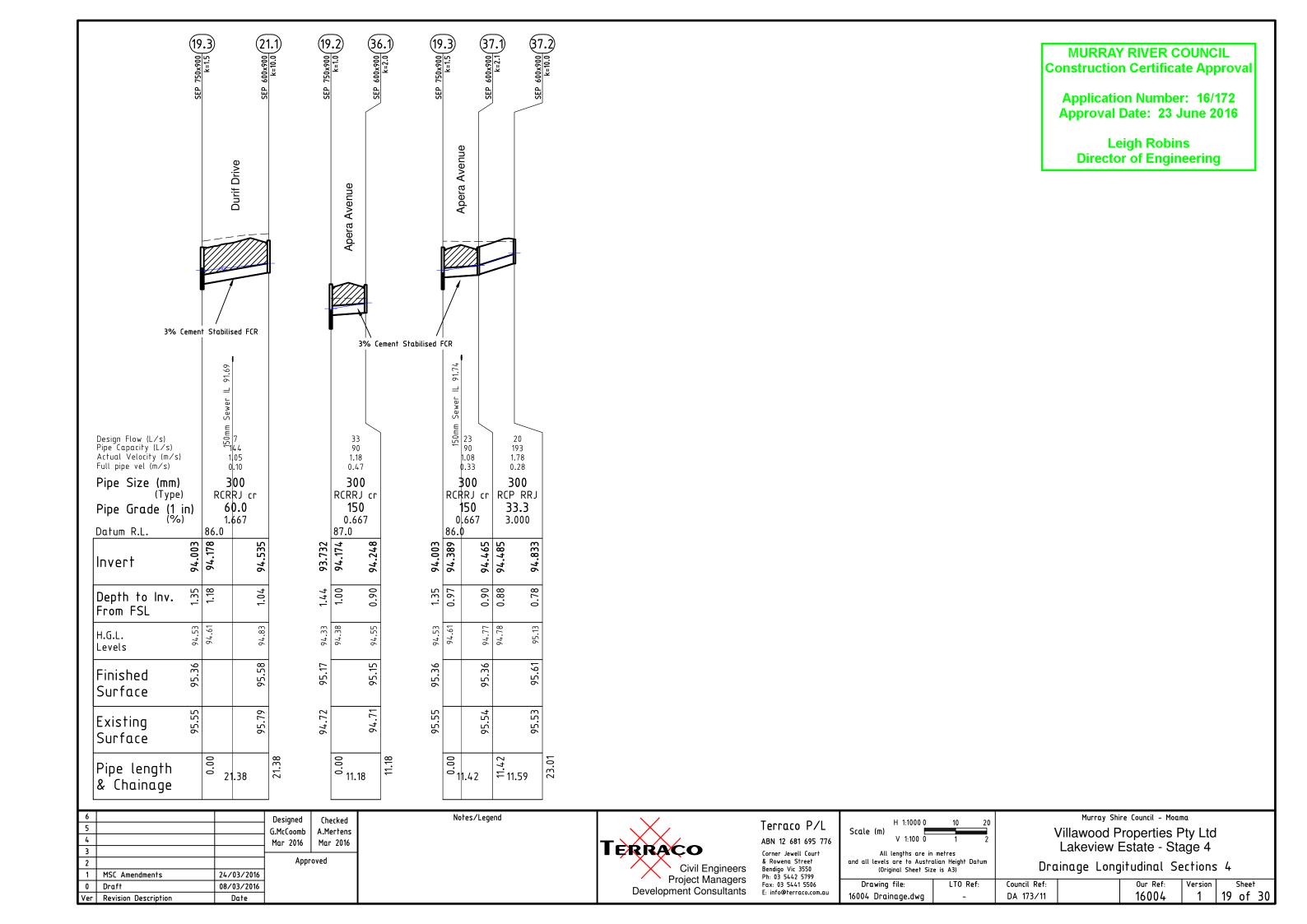












<u>PIT SCHEDULE</u>

Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
1.6α	Side Entry Pit	296303.708	6003067.791	0.600	0.900	5 2 5	93.897	5 2 5	93.877	95.073	1.196	
1 . 5	Side Entry Pit	296332.219	6003106.315	0.750	0.900	5 2 5	93.637	600	93.617	95.093	1.476	
1 . 5	Side Entry Pit	296332.219	6003106.315	0.750	0.900	375	93.797			95.093	1.476	
1 . 4	Side Entry Pit	296349.141	6003129.106	0.750	0.900	600	93.475	675	93.455	94.995	1.540	
1.3	Junction Pit	296362.861	6003129.763	1.500	1.200	675	93.387	750	93.311	95.141	1.830	
1.3	Junction Pit	296362.861	6003129.763	1.500	1.200	750	93.341			95.141	1.830	
1 . 2	Side Entry Pit	296370.603	6003144.945	1.200	1.500	750	93.226	(2x)675	93.206	94.968	1.762	
1 . 2	Side Entry Pit	296370.603	6003144.945	1.200	1.500	600	93.453			94.968	1.762	
1 . 1	Concrete Endwall	296380.890	6003159.679	0.150	0.150	(2x)675	93.111			93.786	0.675	Provide rock beaching
3.2	Side Entry Pit	296339.084	6003068.908	0.900	0.900	750	93.554	750	93.534	94.977	1.443	
4.2	Grated Pit	296266.829	6003117.185	0.600	0.900	300	94.429	3 7 5	94.409	95.758	1.350	
4 . 1 b	Grated Pit	296274.998	6003130.943	0.600	0.900	375	94.302	3 7 5	94.282	95.708	1.426	
4 . 1a	Junction Pit	296279.102	6003137.854	0.600	0.900	375	94.229	375	94.209	95.676	1.467	
19.6	Junction Pit	296214.956	6003156.902	0.600	0.900	3 7 5	94.368	375	94.348	95.882	1.534	
19.5	Side Entry Pit	296224.984	6003152.142	0.600	0.900	3 7 5	94.304	450	94.284	95.890	1.607	
19.4	Side Entry Pit	296245.668	6003195.281	0.600	0.900	450	94.092	450	94.072	95.628	1.556	
19.3	Side Entry Pit	296257.438	6003198.791	0.750	0.900	450	94.023	5 2 5	94.003	95.356	1.353	
19.3	Side Entry Pit	296257.438	6003198.791	0.750	0.900	300	94.178			95.356	1.353	
19.3	Side Entry Pit	296257.438	6003198.791	0.750	0.900	300	94.389			95.356	1.353	
19.2	Side Entry Pit	296311.451	6003166.721	0.750	0.900	5 2 5	93.752	600	93.732	95.173	1.441	
19.2	Side Entry Pit	296311.451	6003166.721	0.750	0.900	300	94.174			95.173	1.441	
19.1	Side Entry Pit	296345.667	6003146.405	0.750	0.900	600	93.573	600	93.553	95.040	1.487	
21.1	Side Entry Pit	296242.261	6003213.851	0.600	0.900			300	94.535	95.576	1.042	
36.1	Side Entry Pit	296317.156	6003176.330	0.600	0.900			300	94.248	95.152	0.904	
37.2		296257.913	6003220.746	0.600	0.900			300	94.833	95.612	0.779	
37.1	Side Entry Pit	296261.109	6003209.608	0.600	0.900	300	94.485	300	94.465	95.361	0.895	

NOTE:

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

NOTE: GRATED PIT COVER LEVELS ARE TO BE SET 150MM BELOW FINISHED SURFACE LEVEL

MURRAY RIVER COUNCIL Construction Certificate Approval

Application Number: 16/172 Approval Date: 23 June 2016

Leigh Robins
Director of Engineering

6				Designed	Checked	Notes/Legend	\ /	T D/I				Murray Shire Council - Moa	ma	
5				G.McCoomb	A.Mertens		X/	Terraco P/L			Villawood Properties Pty Ltd			
4	_			Mar 2016	Mar 2016		TERRACO	ABN 12 681 695 776				Lakeview Estate - St	,	•
_ 3								Corner Jewell Court	All lengths are in	metres		Lakeview Lstate - St	aye +	
2				Appr	roved		Civil Engineers	& Rowena Street Bendigo Vic 3550	and all levels are to Australian Height Datum		Pit Schedule			
1	١	MSC Amendments	24/03/2016				Project Managers	Ph: 03 5442 5799	(Original Sheet Size is A3)		THI Schedate			
0	0	Draft	08/03/2016				Development Consultants	Fax: 03 5441 5506	Drawing file:	LTO Ref:	Council Ref:	Our Ref:	Version	Sheet
Ve	r R	Revision Description	Date				Development Consultants	E: info@terraco.com.au	16004 Drainage.dwg	-	DA 173/11	16004	1	20 of 30

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.

> **MURRAY RIVER COUNCIL** Construction Certificate Approval

Application Number: 16/172 Approval Date: 23 June 2016

Leigh Robins Director of Engineering

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.

٥			Designed	Checked		
5			G.McCoomb	A.Mertens		
4			Mar 2016	Mar 2016		
3						
2			Approved			
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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.au No Scale

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

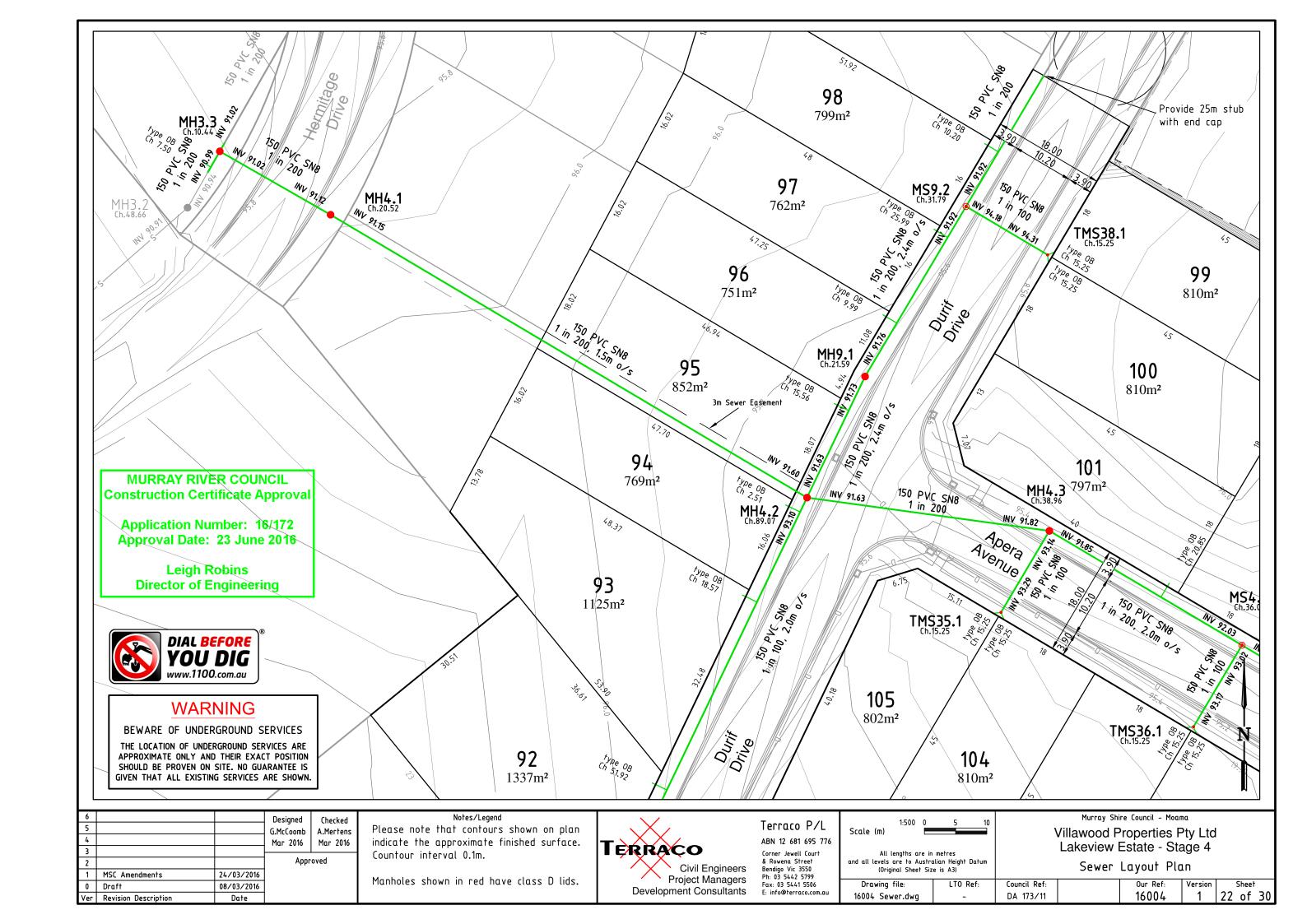
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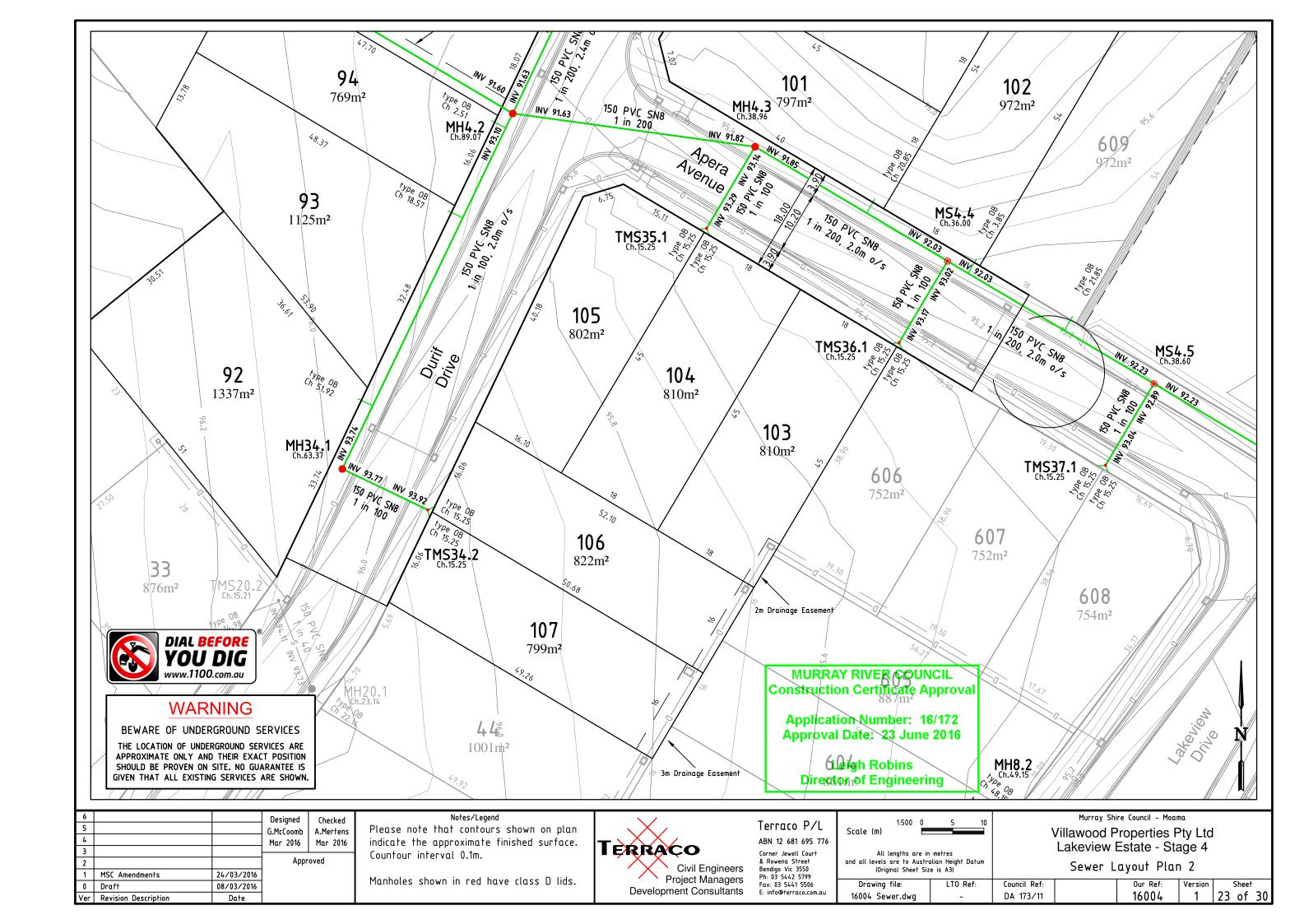
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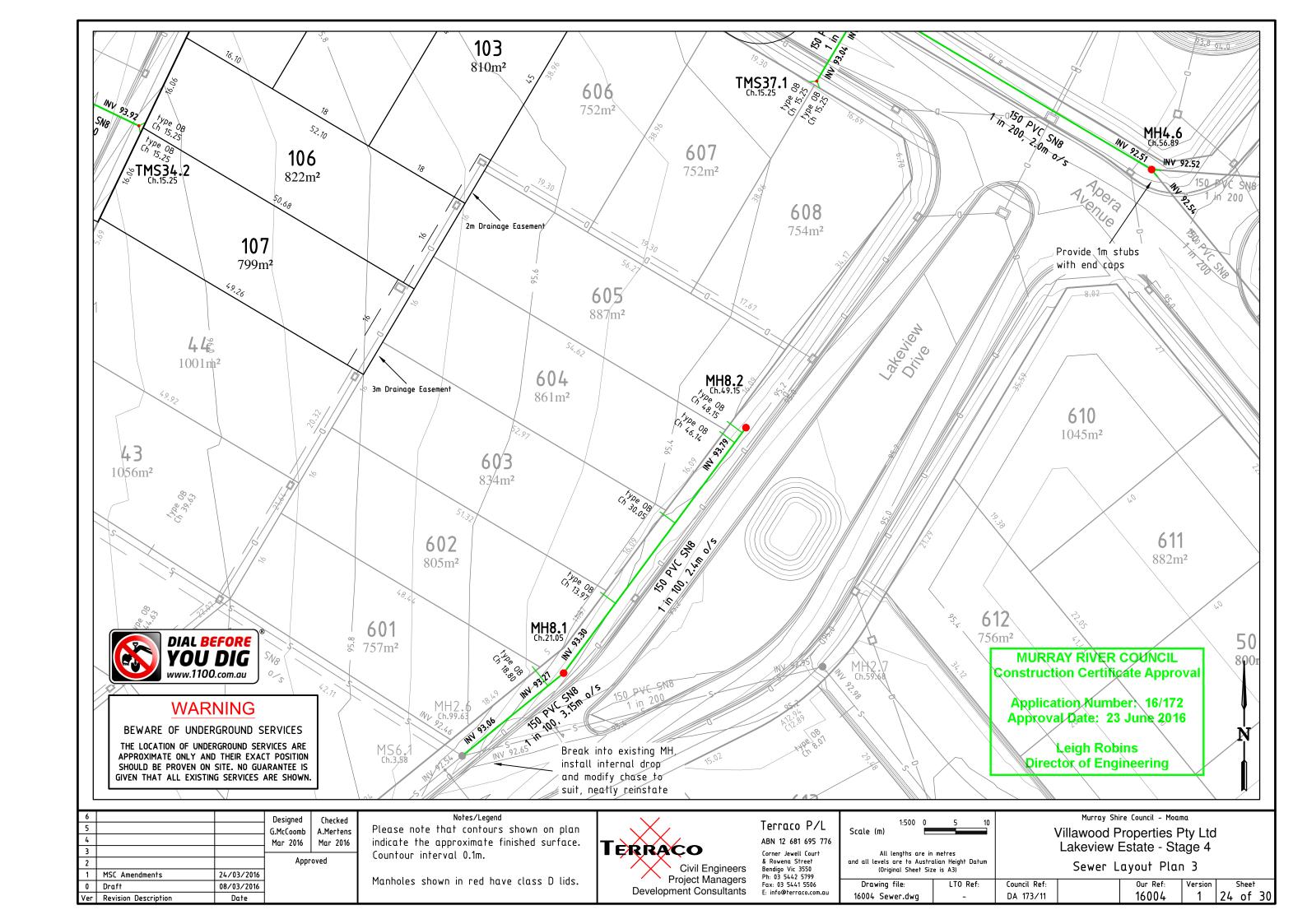
Villawood Properties Pty Ltd Lakeview Estate - Stage 4

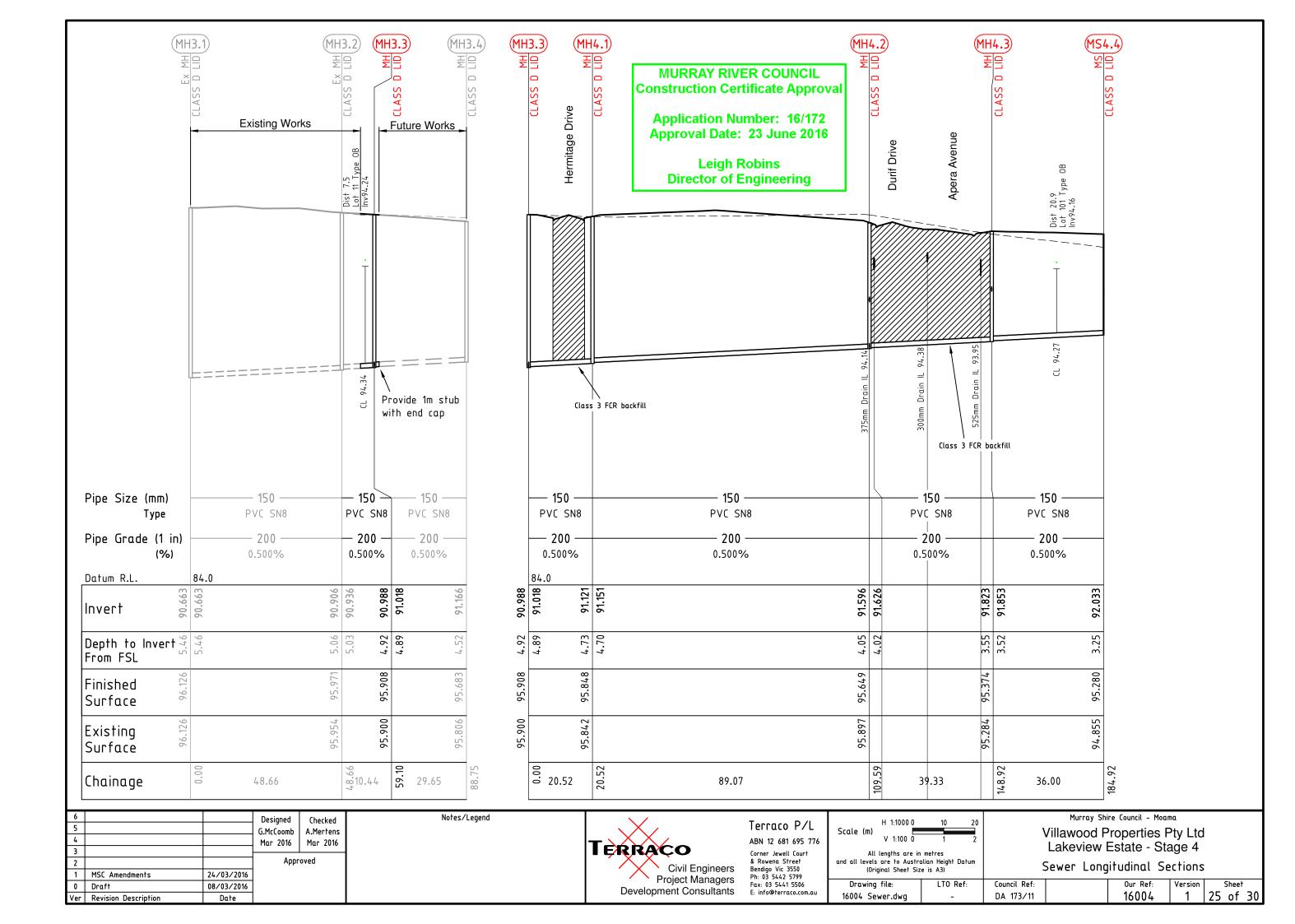
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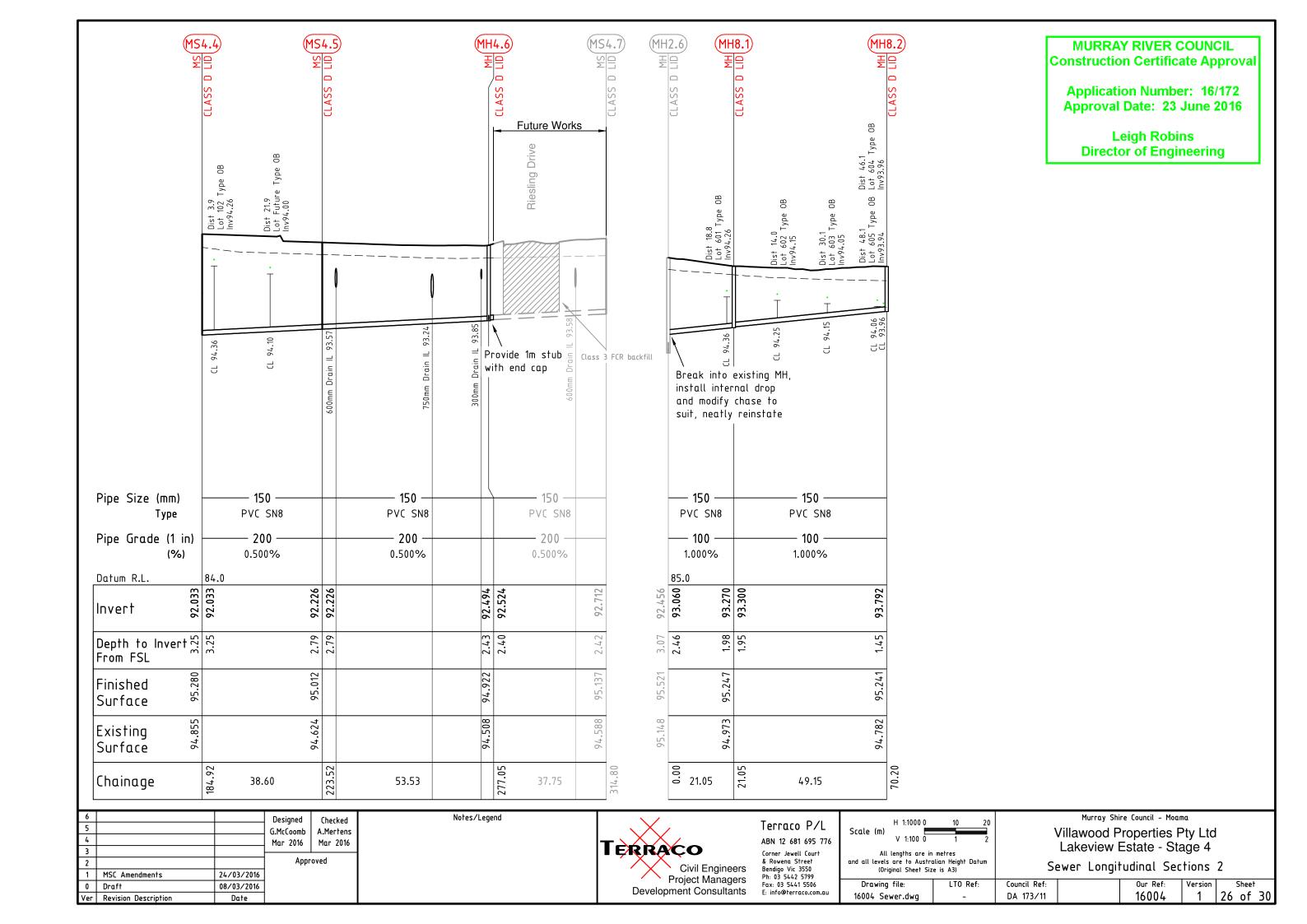
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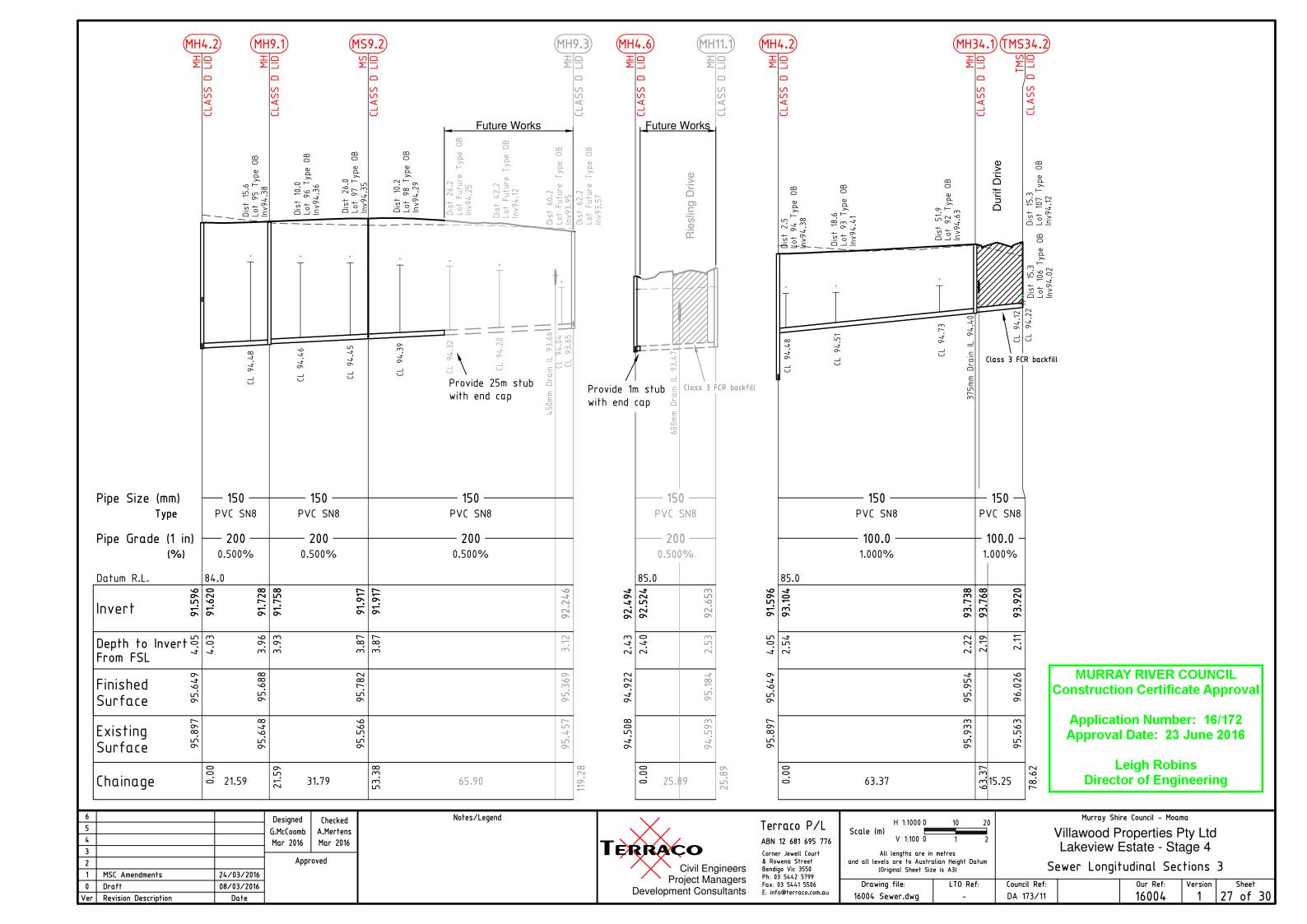


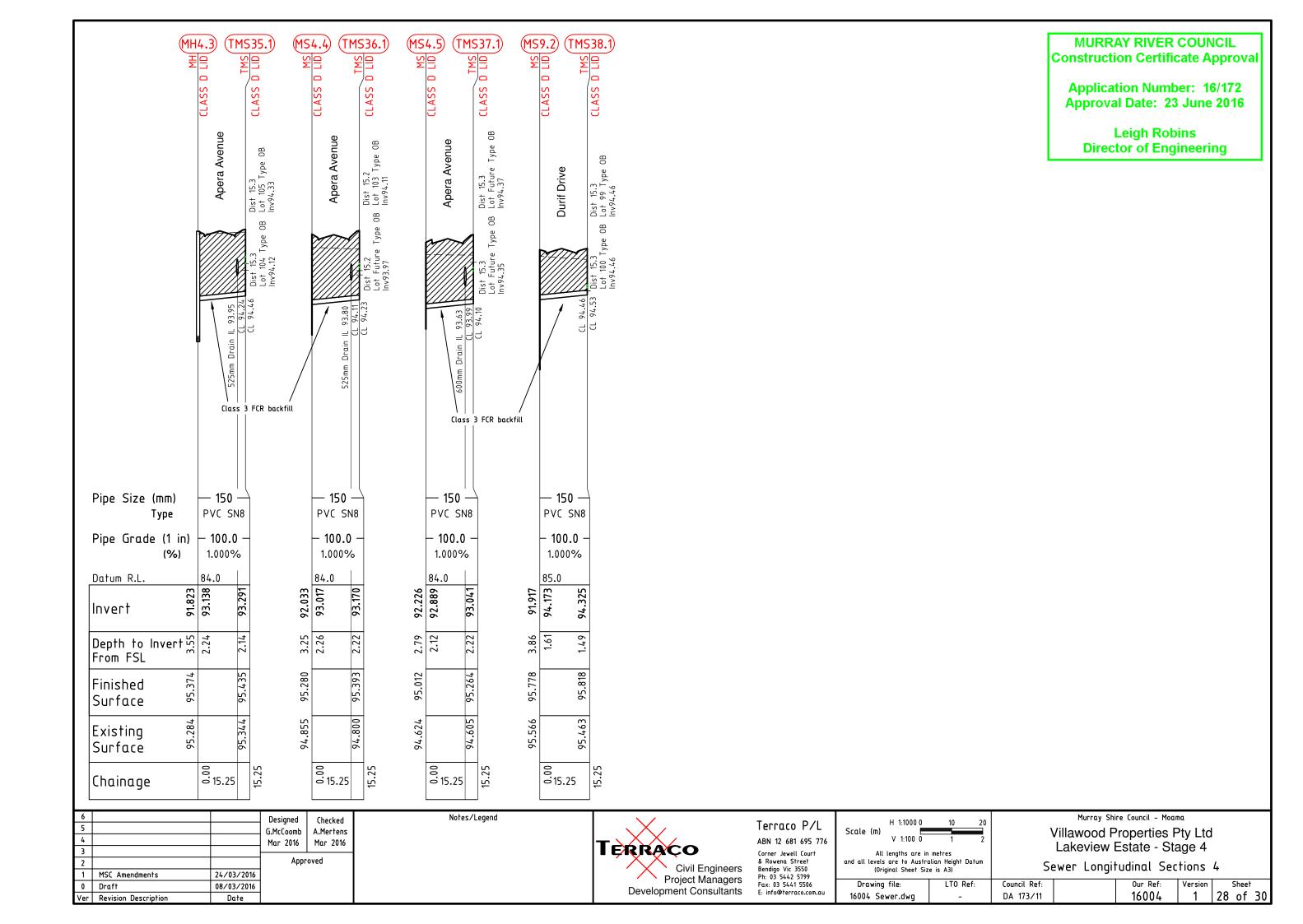












WATER MAIN NOTES

- 1. Water Main offset to be 1.65m (Filtered) and 2.10m (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 stop tap (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.

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. 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.

MURRAY RIVER COUNCIL
Construction Certificate Approval

Application Number: 16/172
Approval Date: 23 June 2016

Leigh Robins
Director of Engineering

TOTAL WORK

SIZE	TYPE	CLASS	LENGTH (m)
150mm	PVC-M	9	130
150mm	PVC-M	12	28
100mm	PVC-M	9	276
100mm	PVC-M	12	28

Street	Back of Kerb	Filt. Water	Raw Water	Gas	Power	Telstra	Sewer
Durif Drive	3.90	1.65 E	2.10 E	2.50 E	0.40 W	0.90 W	2.00 W
Apera Avenue	3.90	1.65 S	2.10 S	2.50 S	0.40 N	0.90 N	2.00 N
Lakeview Drive	4.90	2.90 E	3.30 E	3.80 E	0.40 W	0.90 W	2.40 W

Service Offsets

6		Des	signed Checked	Notes/Legend	\ /	T D //				Murray Shire Council - Moa	ıma	
5		G.Mc	Coomb A.Merten		\	Terraco P/L	No Scal	е	Villawood Properties F		Ptv I to	4
4		Mar	· 2016 Mar 2016			ABN 12 681 695 776			Lakeview Estate - Stage 4			
3				-	TERRACO	Corner Jewell Court	All lengths are in	n metres		Lakeview Estate - St	aye 4	
2			Approved		Civil Engineers	& Rowena Street Bendigo Vic 3550	and all levels are to Austr		Water Notes			
1	MSC Amendments 24/	/03/2016			Project Managers	Ph: 03 5442 5799	(Original Sheet Siz	e is A3)	Water Hotes			
0	Draft 08/	/03/2016			,	Fax: 03 5441 5506	Drawing file:	LTO Ref:	Council Ref:	Our Ref:	Version	Sheet
Ver	Revision Description	Date			Development Consultants	E: info@terraco.com.au	16004 Water.dwg	-	DA 173/11	16004	1	29 of 30

