

KINGLAKE WEST ROAD & TOWN ENTRY DESIGN

CIVIL WORKS



Sheet List Table

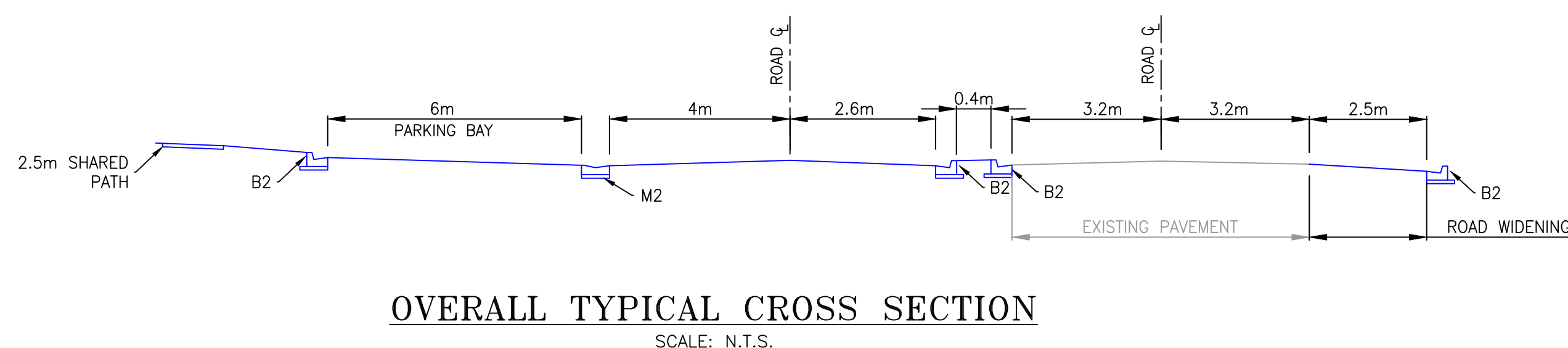
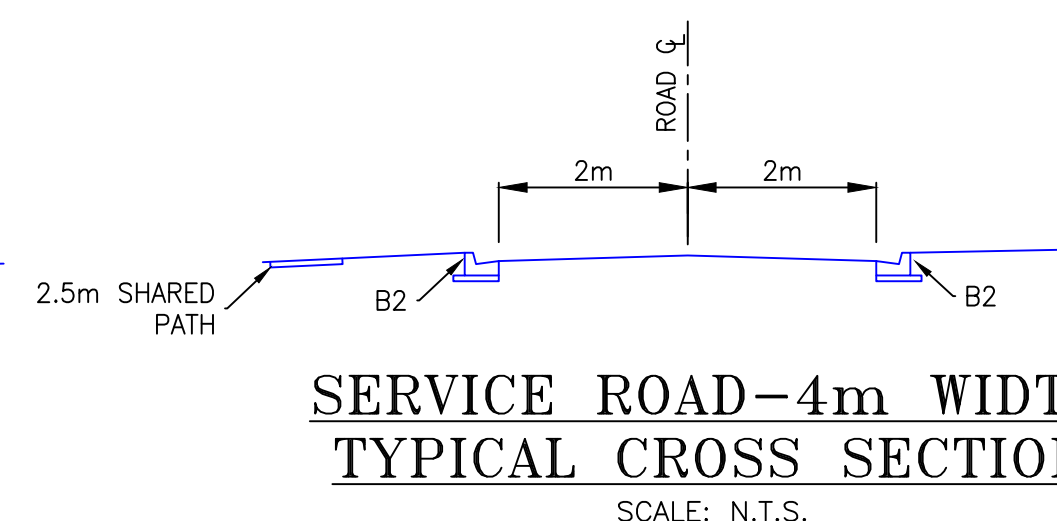
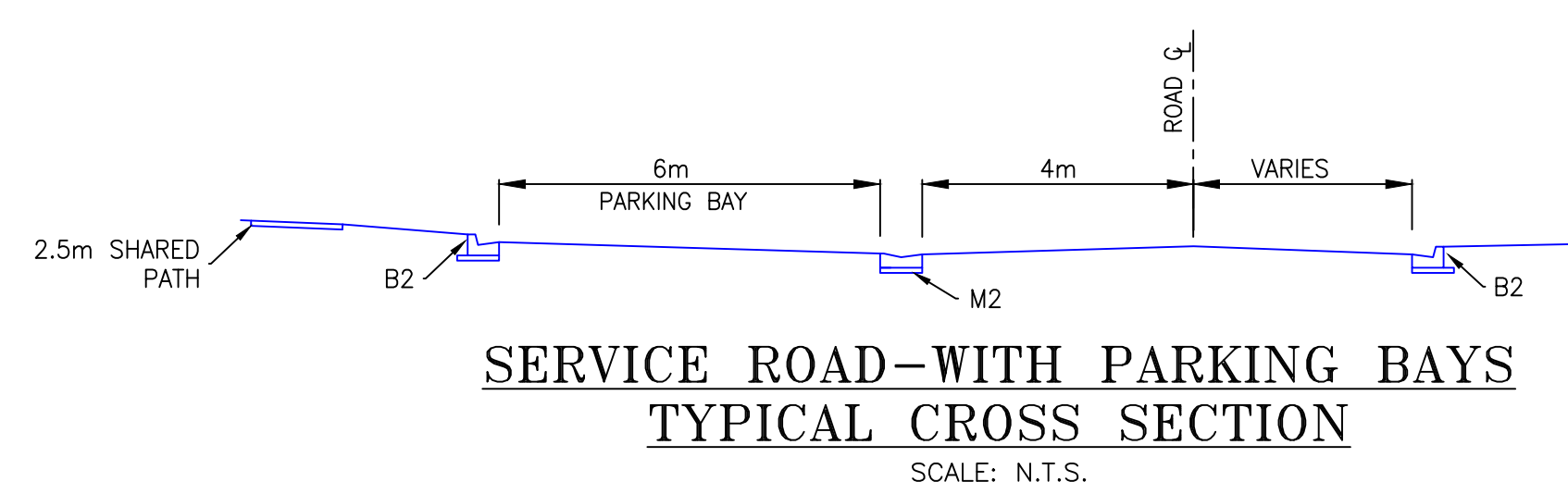
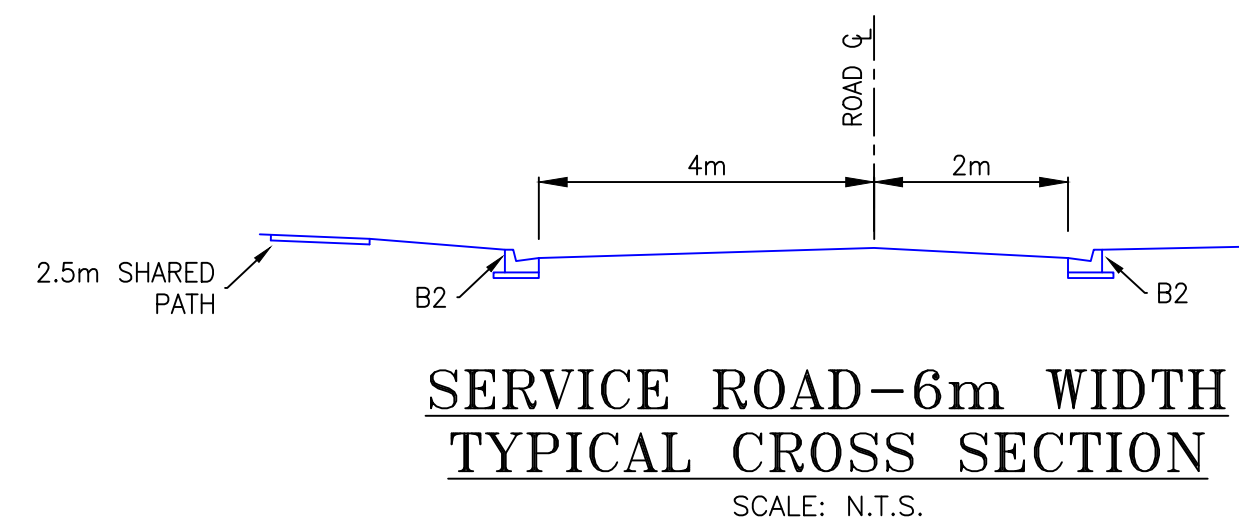
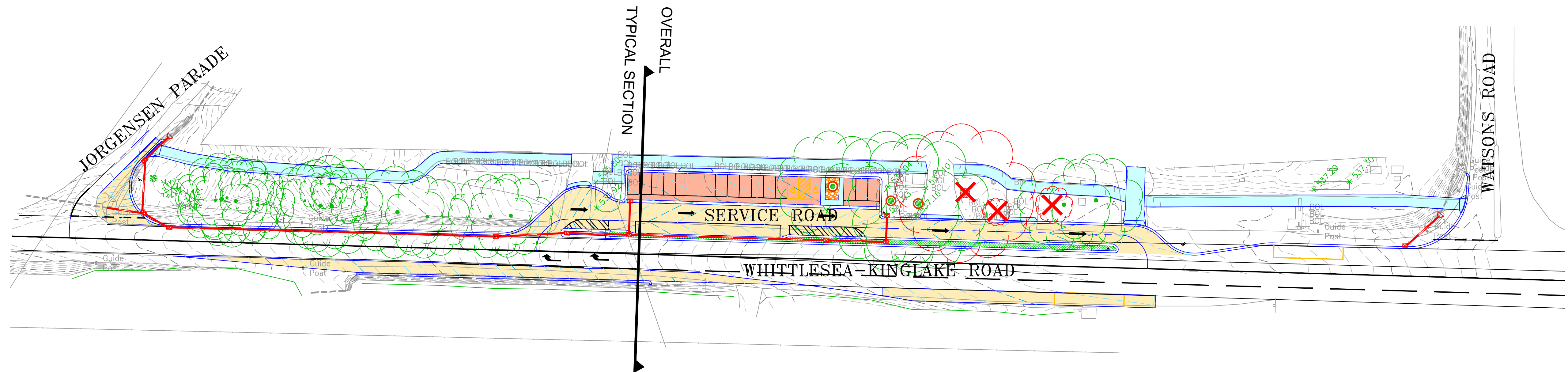
SHEET NUMBER	SHEET TITLE
--	Face
1	Overall Layout Plan
2	Layout Plan
3	Kinglake Rd Long Section
4	Kinglake Rd Widening Cross Section
5	Service Rd Long Section
6	Service Rd Cross Section
7	Jorgensen Parade Long & Cross Section
8	Drainage Long Section
9	Drainage Pit Schedule
10	Intersection Detail(1)
11	Intersection Detail(2)
12	Intersection Detail(3)
13	Intersection Detail(4)
14	Linemarking Plan
15	Town Entry Detail(1)
16	Town Entry Detail(2)
17	Town Entry Detail(3)
18	Landscape Plan(1)
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20	Landscape Plan(3)
21	Landscape Plan(4)
22	Landscape Plan(5)



Reference No.
CR9756
REVISION 05

* PRELIMINARY PLAN *
For discussion purposes only

IDEAS INTO ACTION
PLANRIGHT
Civil Engineers, Irrigation Designers, Licensed Surveyors.
139 Hogan Street, TATURA Ph. 03 58241322
21 Nish Street, ECHUCA Ph. 03 54821699
24B Sydney Street, KILMORE Ph. 03 57822238
Email: results@planright.com.au



LEGEND

- EXISTING SURFACE LEVELS
- EXISTING FEATURE
- PROPOSED UNDERGROUND DRAINAGE
- PROPOSED DRAINAGE PIT
- PROPOSED FOOTPATH
- PROPOSED PAVEMENT
- PROPOSED LANDSCAPE AREA (APPROVED NATIVE SPECIES)
- PROPOSED LIGHT POLE
- PROPOSED KERB AND CHANNEL
- PROPOSED LAYBACK
- PROPOSED DRAINAGE LAYBACK

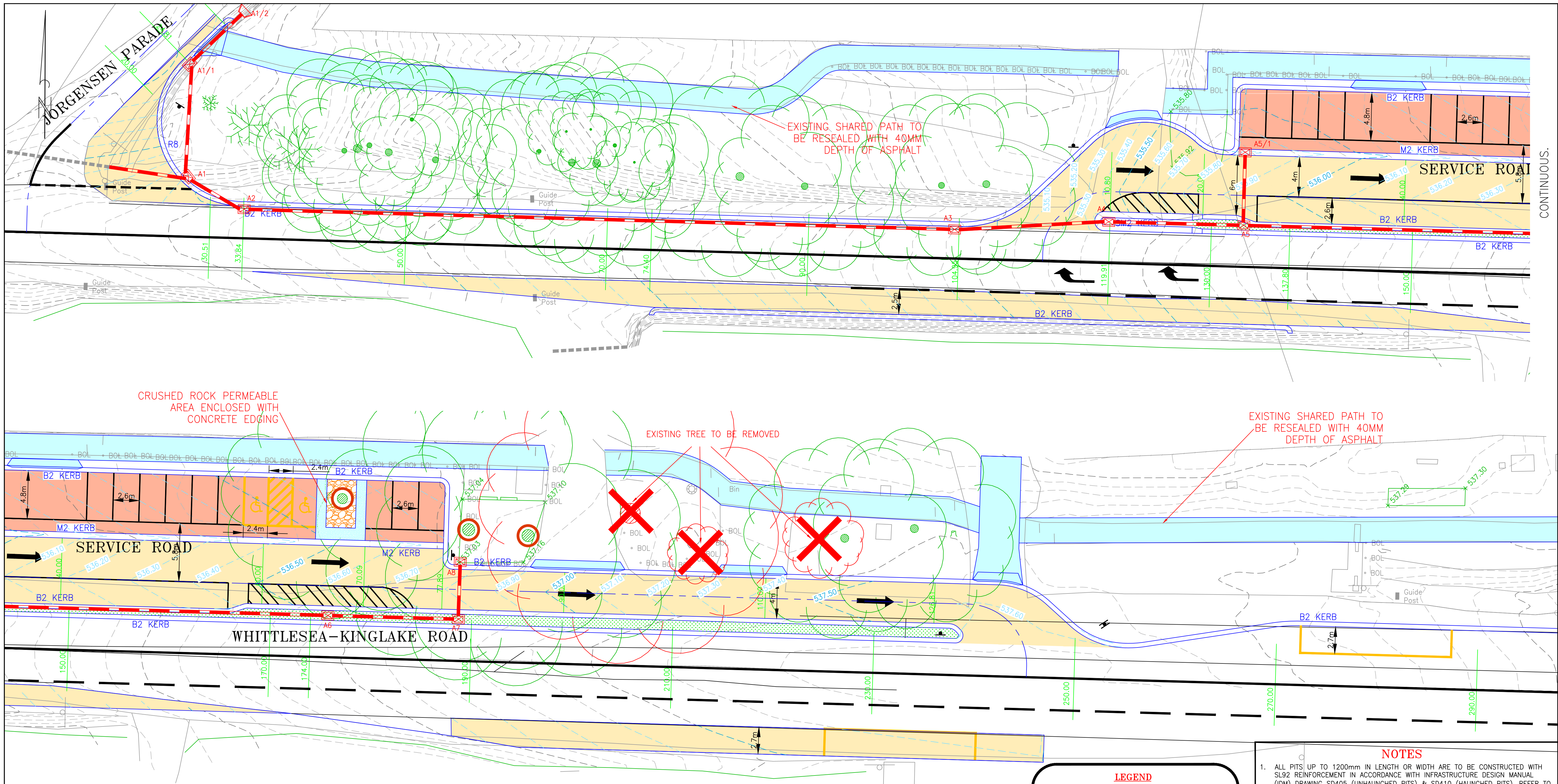
- NOTES**
- ALL PITS UP TO 1200mm IN LENGTH OR WIDTH ARE TO BE CONSTRUCTED WITH SL92 REINFORCEMENT IN ACCORDANCE WITH INFRASTRUCTURE DESIGN MANUAL (IDM) DRAWING SD405 (UNHAUNCHED PITS) & SD410 (HAUNCHED PITS). REFER TO ABOVE IDM STANDARD DRAWINGS FOR REINFORCEMENT IN PITS GREATER THAN 1200mm IN LENGTH OR WIDTH.
 - ALL STANDARD PIT DETAILS SHOULD REFERENCE IDM STANDARDS IN FIRST INSTANCE.
 - ALL DRAINAGE PIPES 225Ø OR GREATER TO BE RRJ RCP, ALL DRAINAGE PIPES 150Ø OR LESS TO BE RRJ uPVC & WATER TIGHT.
 - ALL STORMWATER PROPERTY CONNECTIONS TO BE 100Ø uPVC SN6 OR EQUIVALENT AND CONSTRUCTED IN ACCORDANCE WITH IDM STANDARD DRAWING SD510. STORMWATER PROPERTY CONNECTIONS INTO PITS TO HAVE 450mm MINIMUM COVER. ALL PROPERTY CONNECTIONS ARE TO EXTEND MIN. 1m INTO PROPERTY AND FOOTPATH TO BE STAMPED "D" WHERE CONNECTION CROSSES.
 - ALL STORMWATER TRENCHES ARE TO BE COMPACTED TO AT LEAST 95% STANDARD COMPACTION.
 - ALL UNDERGROUND SERVICES CROSSING UNDER ROADS SHALL HAVE THE APPROPRIATE INITIAL STAMPED ON THE KERB TO IDENTIFY THE SERVICE LOCATION. FOOTPATHS SHALL BE STAMPED WITH "D" WHERE HOUSE CONNECTIONS CROSS.
 - FOOTPATH AND PEDESTRIAN CROSSINGS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH IDM DRAWINGS SD200, SD205 AND SD210.

WARNING

POWER/TELSTRA LAYOUT SHOWN IS INDICATIVE ONLY. LOCATION TO BE CONFIRMED BY RELEVANT AUTHORITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION

PRELIMINARY PLAN
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DISCLAIMER Notwithstanding any description contained in the Plans or Specification the Contractor shall be responsible for satisfying himself as to the nature and extent of the specified works and the physical and legal conditions under which the works will be carried out, including means of access, extent of clearing, nature of material to be excavated, type and size of mechanical plant required and any like matters effecting the construction of the works.		WARNING BEWARE OF UNDERGROUND SERVICES The location of underground services, where shown, are approximate only. All authorities must be contacted prior to construction to determine the exact location of all underground services.		RELEASE H G F E D C B No. DATE DESCRIPTION		SCALE: HOR: 1:500 (A1) 0m 5 10 20 30 40 VER: N/A DOCUMENT PURPOSE: ☐ PRELIMINARY ONLY ☐ CONSTRUCTION ☐ APPROVAL ☐ AS CONSTRUCTED ☐ FOR TENDER ONLY ☐ OTHER		B.M. No.: B.M.El.: DATUM: A.H.D. SURVEYED: Echuca Planright DESIGNED: SH Apr '21 DRAWN: SH Apr '21 CHECKED: MMc Apr '21 ORIGINAL SHEET SIZE : A1		PLANRIGHT Civil Engineers, Irrigation Designers, Licensed Surveyors. 139 Hogan Street, TATURA Ph. 03 58241322 24B Sydney St, KILMORE Ph. 03 57822238 21 Nish Street, ECHUCA Ph. 03 54821699 Email: results@planright.com.au		THIS PLAN PREPARED USING THE LATEST SOFTWARE AND IS NOT A CRITICAL QUALITY ASSURED SYSTEM		Client: - KINGLAKE WEST KINGLAKE ROAD DESIGN CIVIL WORKS Overall Layout Plan CAD: CR9756 Kinglake Road Design PLOTTED: 17/09/2021		DRAWING No. CR9756/1 SHEET 1 OF 22 RELEASE 05	
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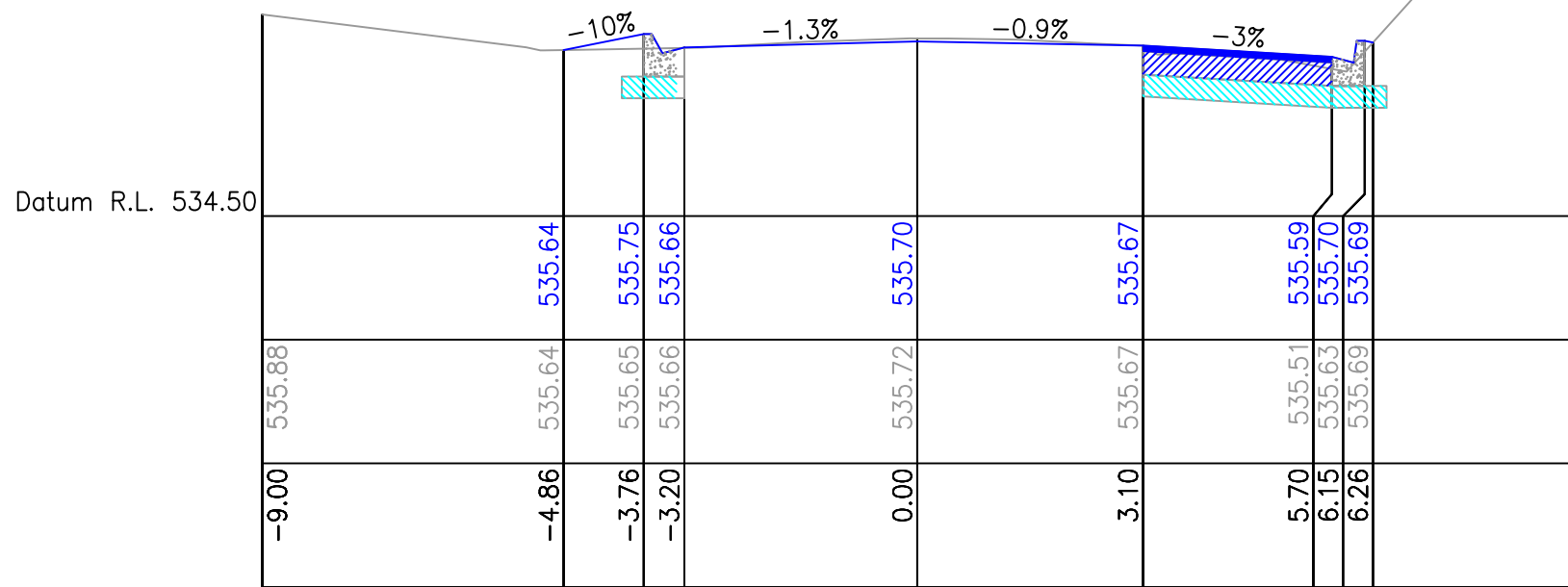
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- EXISTING FEATURE
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- PROPOSED FOOTPATH
- PROPOSED PAVEMENT
- PROPOSED PARKING PAVEMENT
- PROPOSED LANDSCAPE AREA (APPROVED NATIVE SPECIES)
- PROPOSED LIGHT POLE
- PROPOSED KERB AND CHANNEL
- PROPOSED LAYBACK
- PROPOSED DRAINAGE LAYBACK
- PROPOSED CRUSH ROCK TIMBER
- EDGE AROUND TREE

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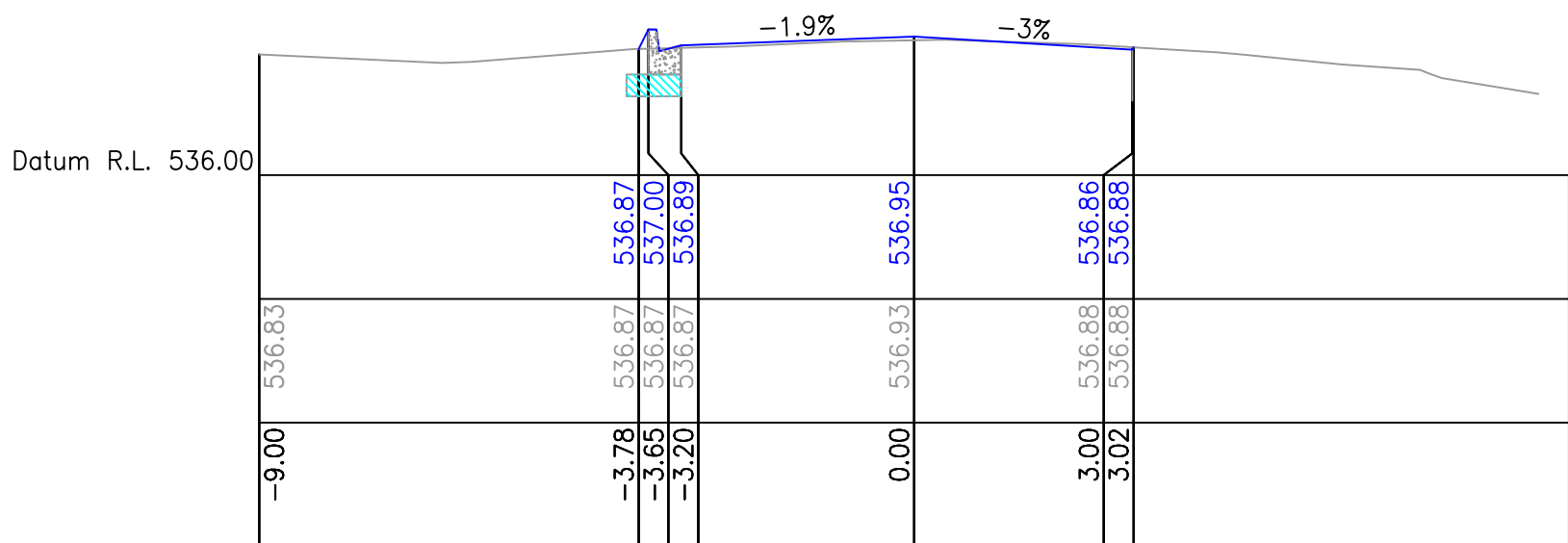
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No.	DATE	DESCRIPTION																																	

PRELIMINARY PLAN
For discussion purposes only

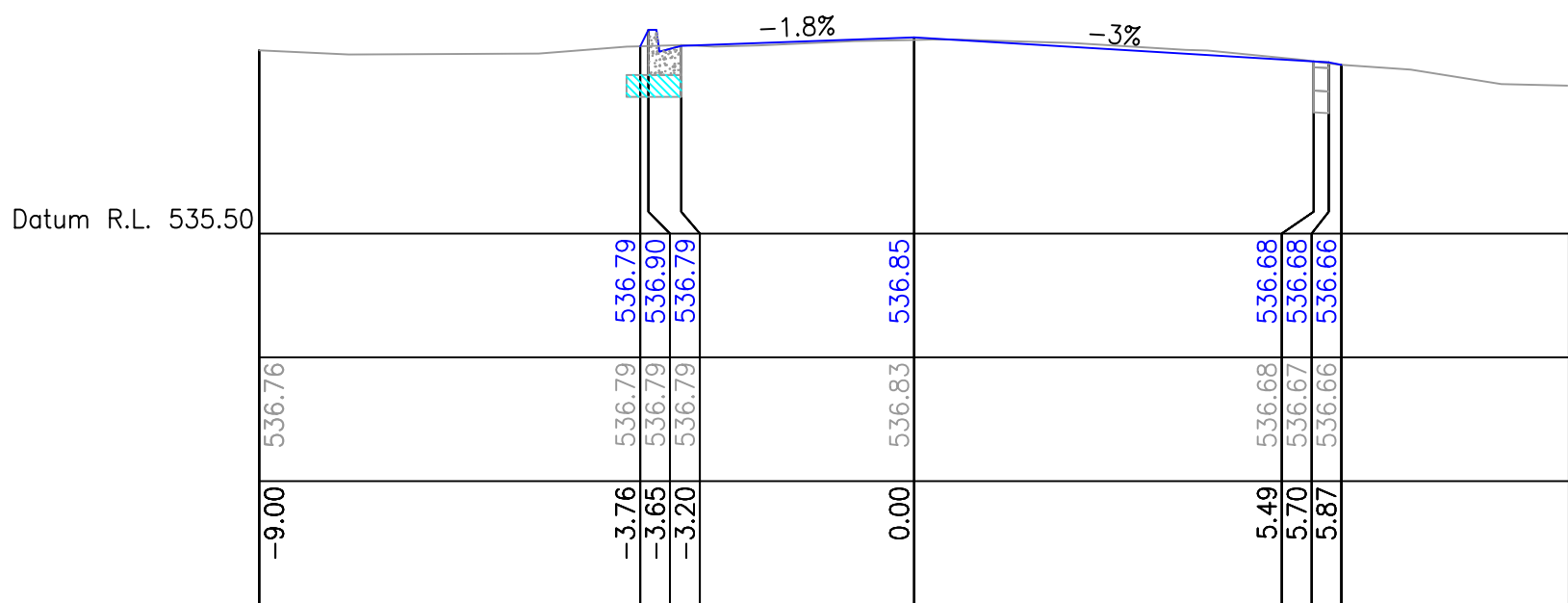
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SURFACING - 40mm DEPTH SIZE 7mm TYPE N ASPHALT
BASE - 160mm DEPTH CLASS 2 20mm FCR. MINIMUM CBR VALUE 80 AND COMPACT TO A MINIMUM DENSITY RATIO OF 98% MMDD.
SUB-BASE - 150mm DEPTH CLASS 4 20mm FCR. MINIMUM CBR VALUE 30 AND COMPACT TO A MINIMUM DENSITY RATIO OF 98% MMDD.



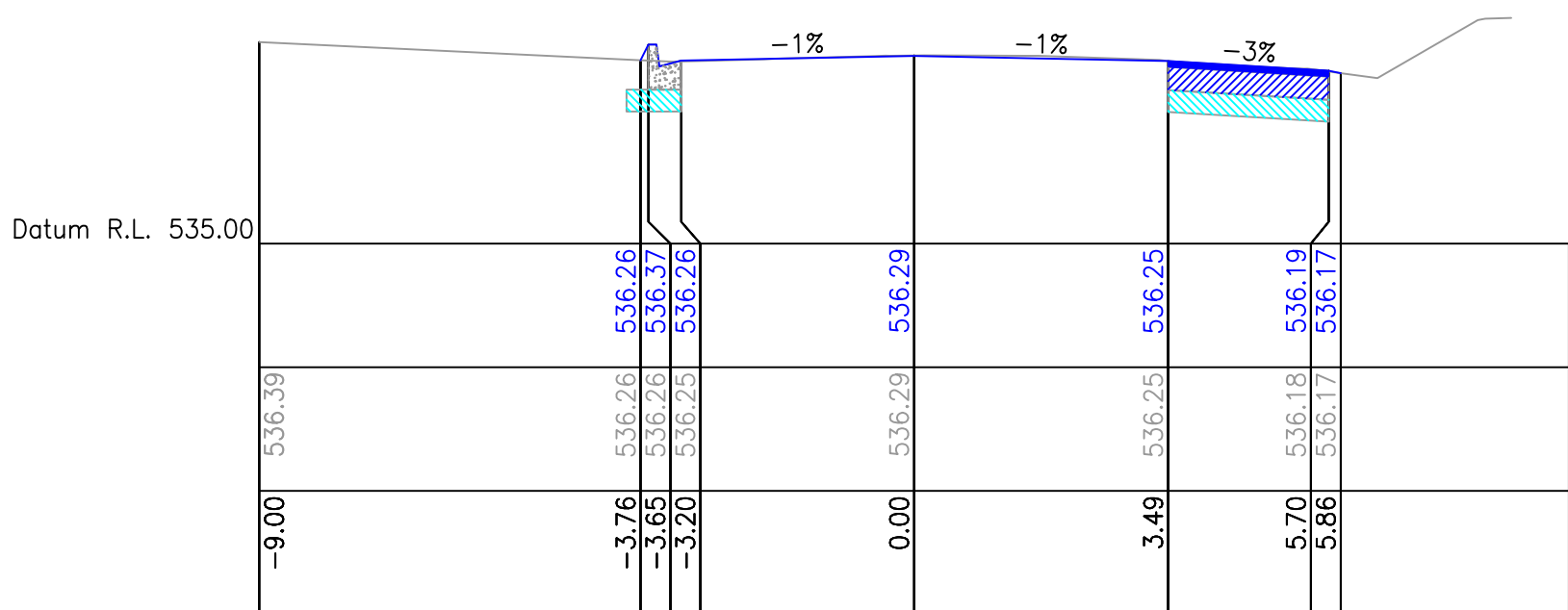
Ch 130.00



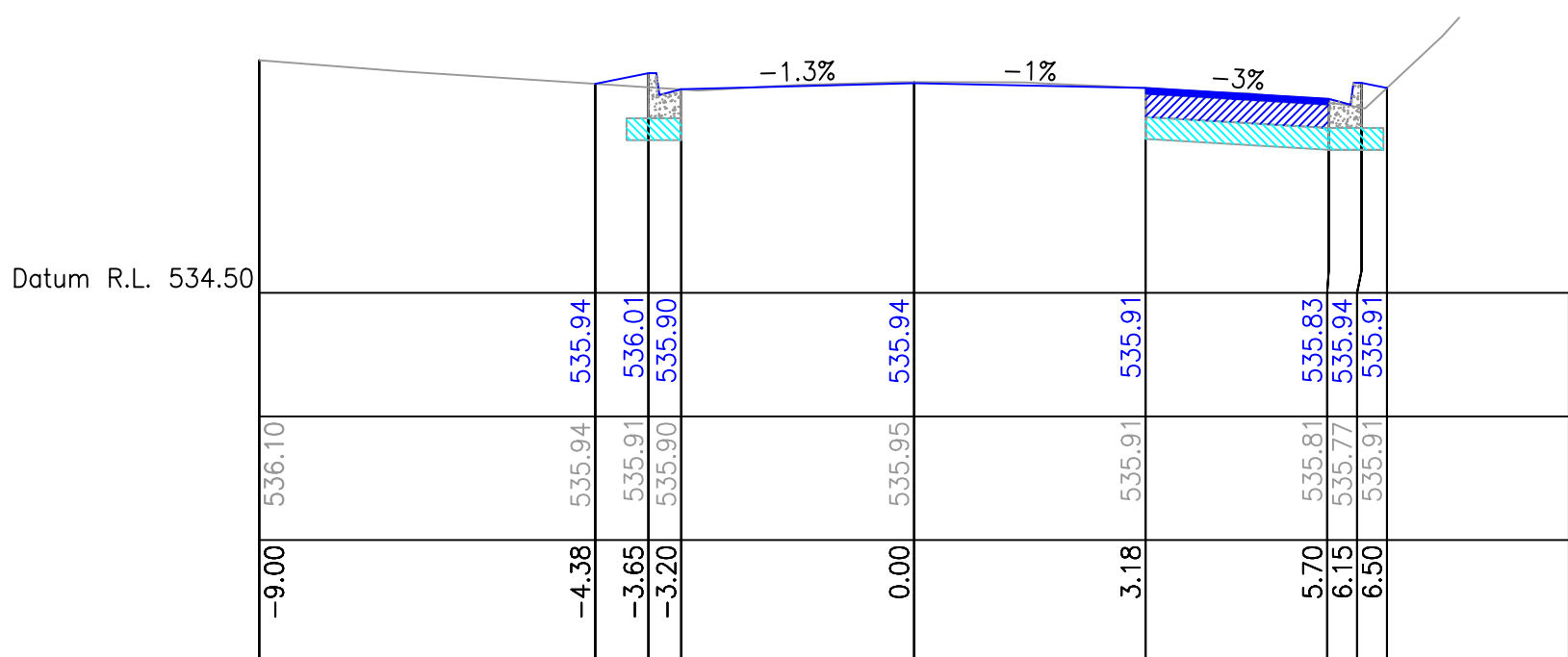
Ch 174.00



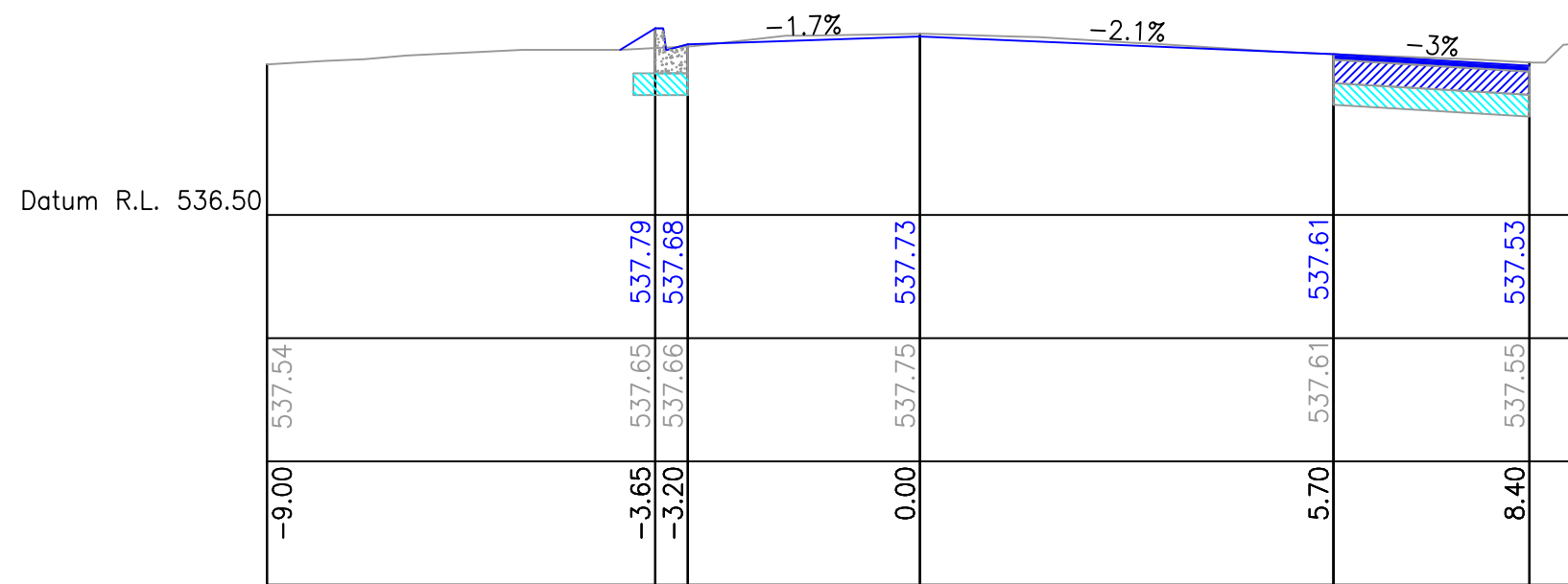
Ch 170.00



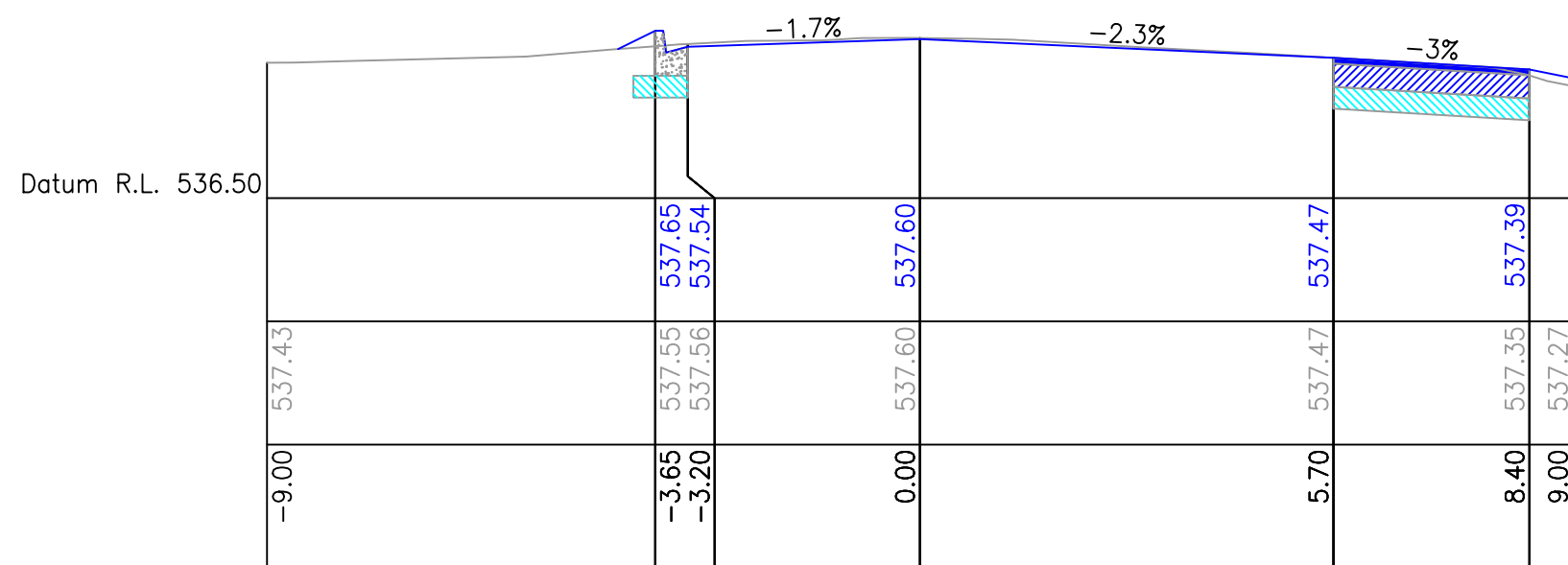
Ch 150.00



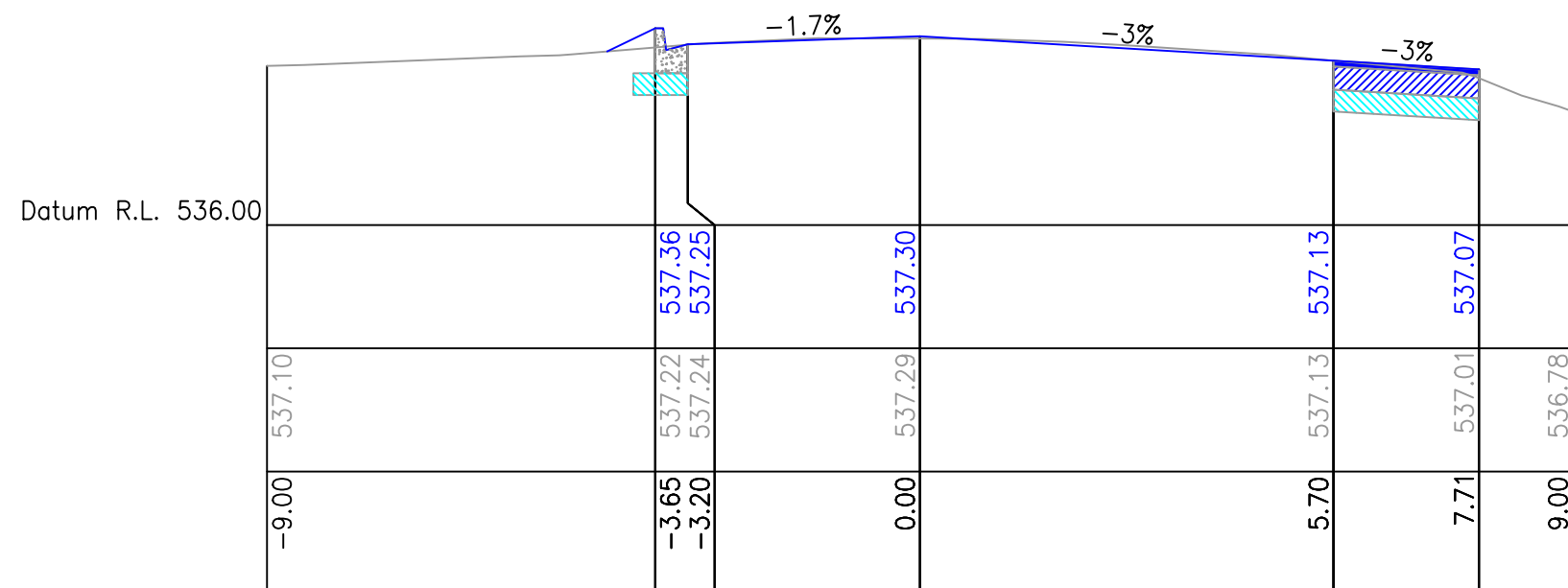
Ch 137.80



Ch 230.00



Ch 210.00



Ch 190.00

Datum R.L. 533.50										
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Natural Surface	535.09	534.41	534.41	534.51	534.48	534.40	534.51			
Offsets	-9.00	-5.24	-3.65	-3.20	0.00	2.89	5.70	6.15		

Ch 90.00

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WARNING

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No.	DATE	DESCRIPTION

SCALE:	
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0m 1 2 4 6 8	
VER: 1:50 (A1)	
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DOCUMENT PURPOSE:	
☐ PRELIMINARY ONLY	☐ CONSTRUCTION
☐ APPROVAL	☐ AS CONSTRUCTED
☐ FOR TENDER ONLY	☐ OTHER

B.M. No.:	B.M.El.:
DATUM: A.H.D.	
SURVEYED: Echuca	Planright
DESIGNED: SH	Apr '21
DRAWN: SH	Apr '21
CHECKED: MMc	Apr '21
ORIGINAL SHEET SIZE : A1	

IDEAS INTO ACTION
PLANRIGHT
Civil Engineers, Irrigation Designers, Licensed Surveyors.
139 Hogan Street, TATURA Ph. 03 58241322
24B Sydney St, KILMORE Ph. 03 57822238
21 Nish Street, ECHUCA Ph. 03 54821699
Email: results@planright.com.au

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Client: -

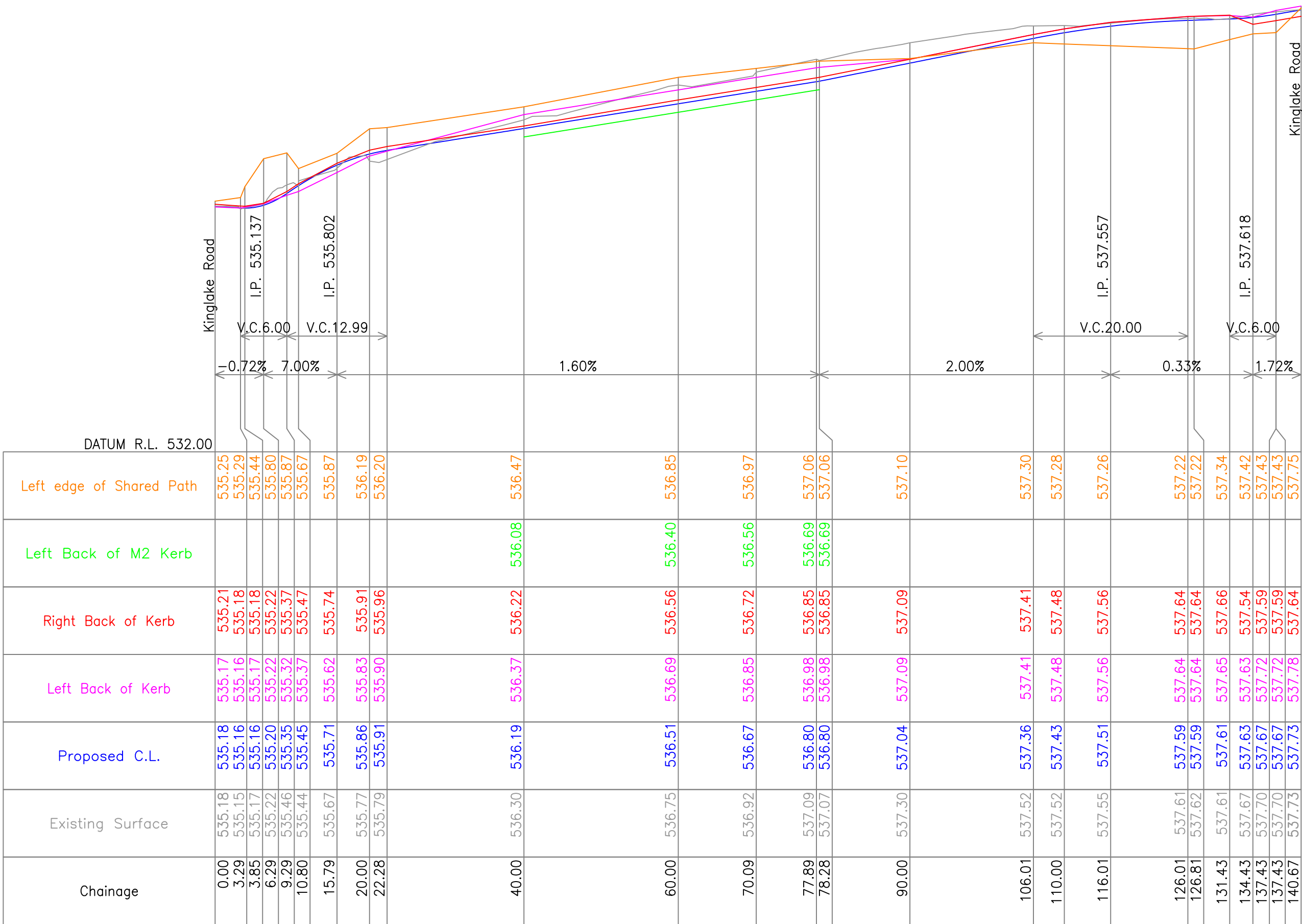
KINGLAKE WEST
KINGLAKE ROAD DESIGN
CIVIL WORKS

Kinglake Rd Widening Cross Section

CAD: CR9756 Long&Cross Section Design

PLOTTED: 17/09/2021

DRAWING No.
CR9756/4
RELEASE 05
SHEET 4 OF 22



SERVICE ROAD LONGITUDINAL SECTION

* PRELIMINARY PLAN *
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B			
	No.	DATE	DESCRIPTION

SCALE:

HOR: 1:500 (A1)
0m 5 10 20 30 40

VER: 1:50 (A1)
0m 0.5 1 2 3 4

DOCUMENT PURPOSE:

☐ PRELIMINARY ONLY ☐ CONSTRUCTION
☐ APPROVAL ☐ AS CONSTRUCTED
☐ FOR TENDER ONLY ☐ OTHER

B.M. No.:		B.M.El.:	
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DESIGNED: SH		Apr '21	
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IDEAS INTO ACTION

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THIS PLAN PREPARED USING
THE LATEST CERTIFIED
QUALITY ASSURED SYSTEM

Client: -

**KINGLAKE WEST
KINGLAKE ROAD DESIGN
CIVIL WORKS**

Service Rd Long Section

CAD: CR9756 Long&Cross Section Design

PLOTTED: 17/09/2021

DRAWING No.
CR9756/5
RELEASE 05
SHEET 5 OF 22

PARKING AREA PAVEMENT:

SURFACING - AUSTRAL (NUBRIK) 65mm WAFFLE BACK COMMERCIAL PAVER, OR SIMILAR TYPE (TO BE APPROVED)

BASE - 35mm BEDDING SAND

SUB-BASE - 200mm DEPTH 20mm CLASS 3 FCR COMPACTED TO 97% MODIFIED

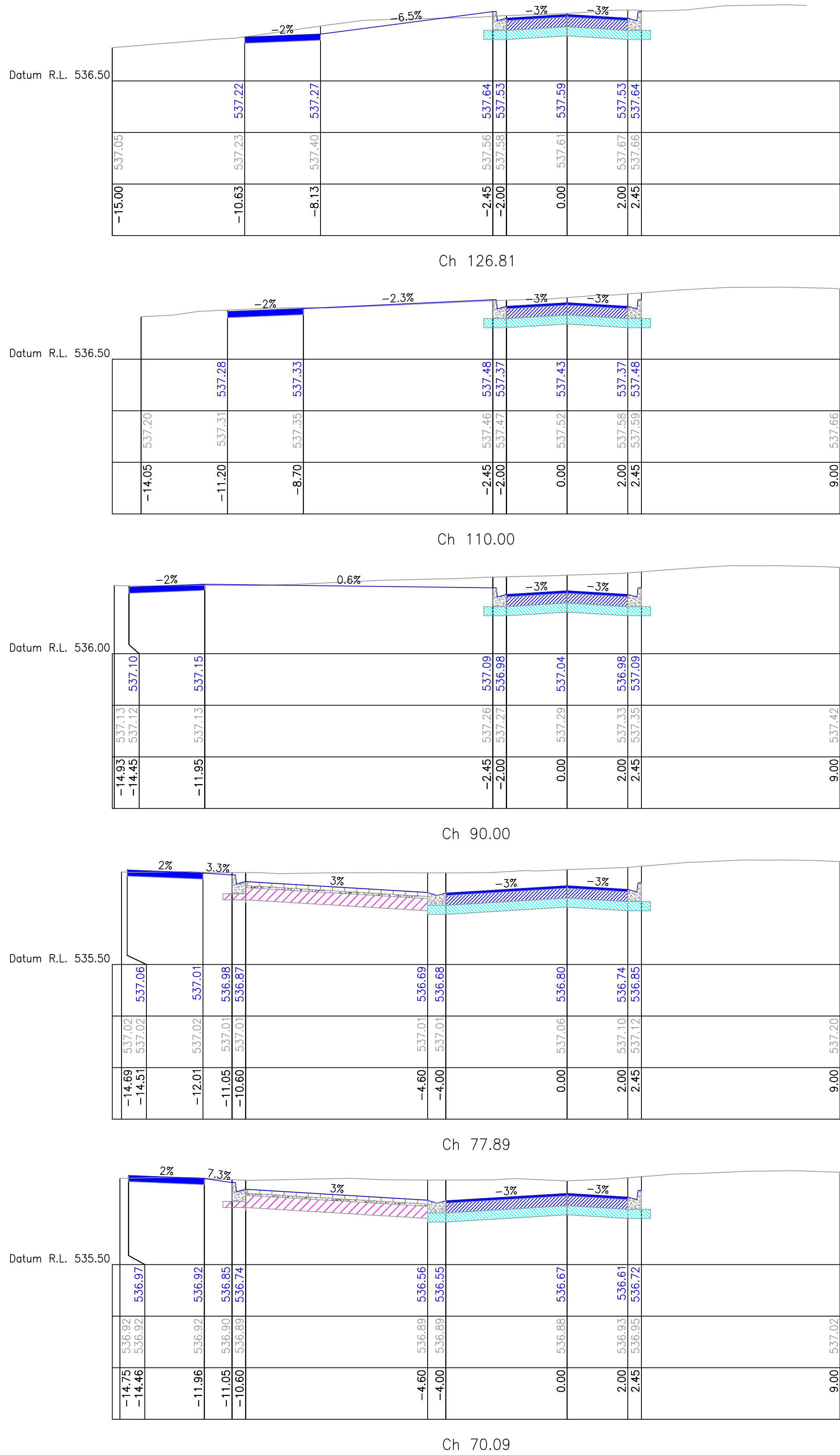
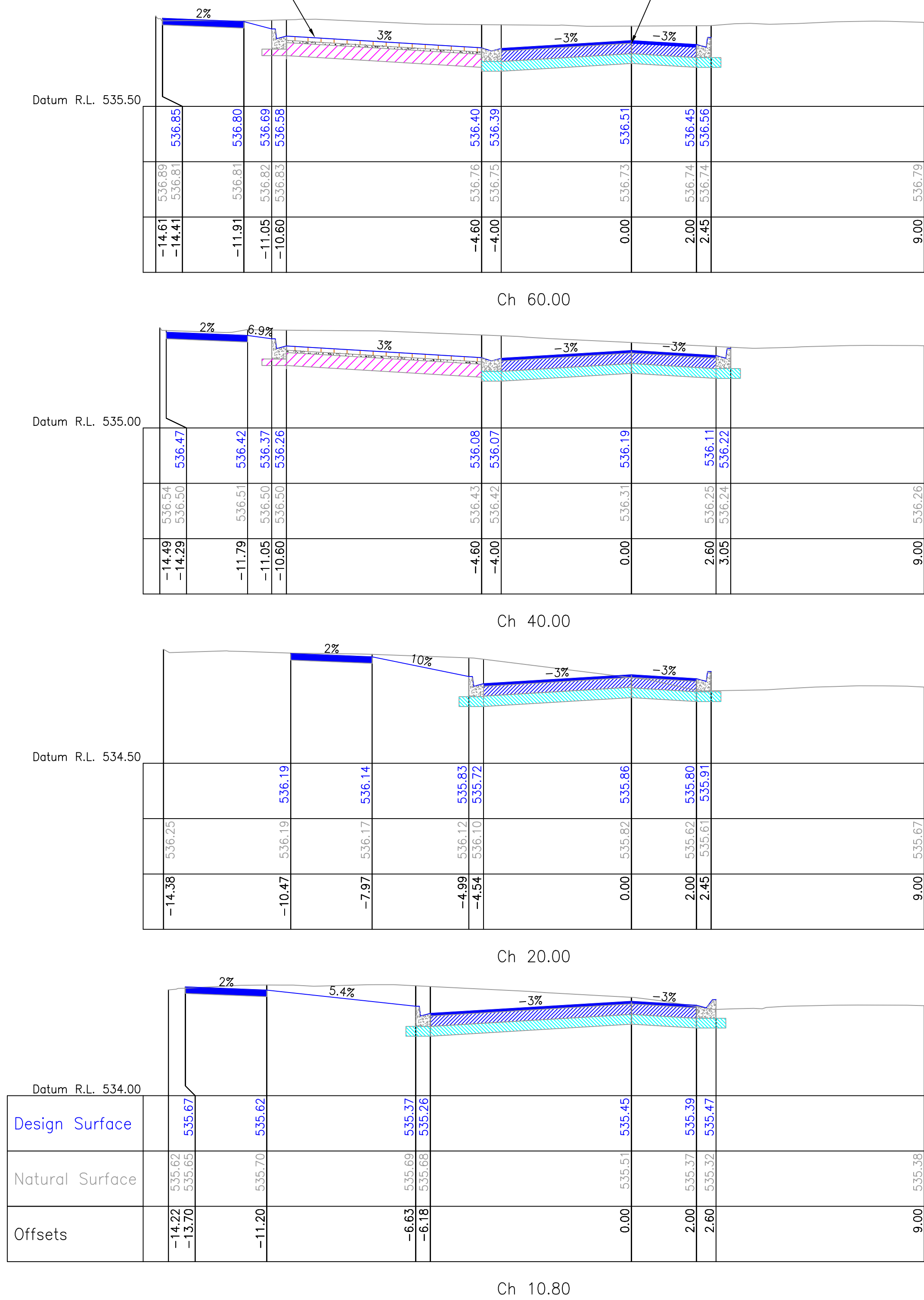
NOTE - REFER VICROADS STD SECTIONS 703 GENERAL CONCRETE PAVING FOR SPECIFICATION

PAVEMENT:

SURFACING - 40mm DEPTH SIZE 7mm TYPE N ASPHALT

BASE - 160mm DEPTH CLASS 2 20mm FCR, MINIMUM CBR VALUE 80 AND COMPACT TO A MINIMUM DENSITY RATIO OF 98% MMDD.

SUB-BASE - 150mm DEPTH CLASS 4 20mm FCR, MINIMUM CBR VALUE 30 AND COMPACT TO A MINIMUM DENSITY RATIO OF 98% MMDD.



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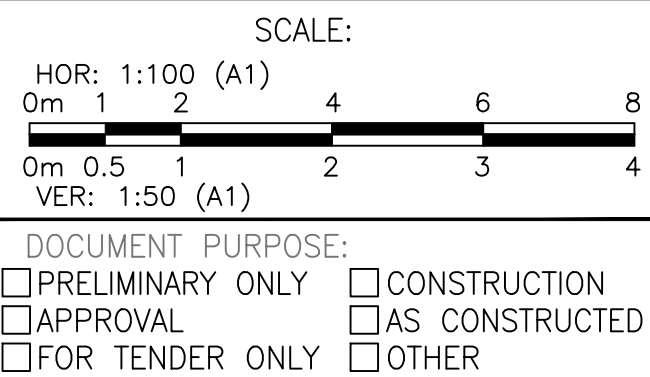
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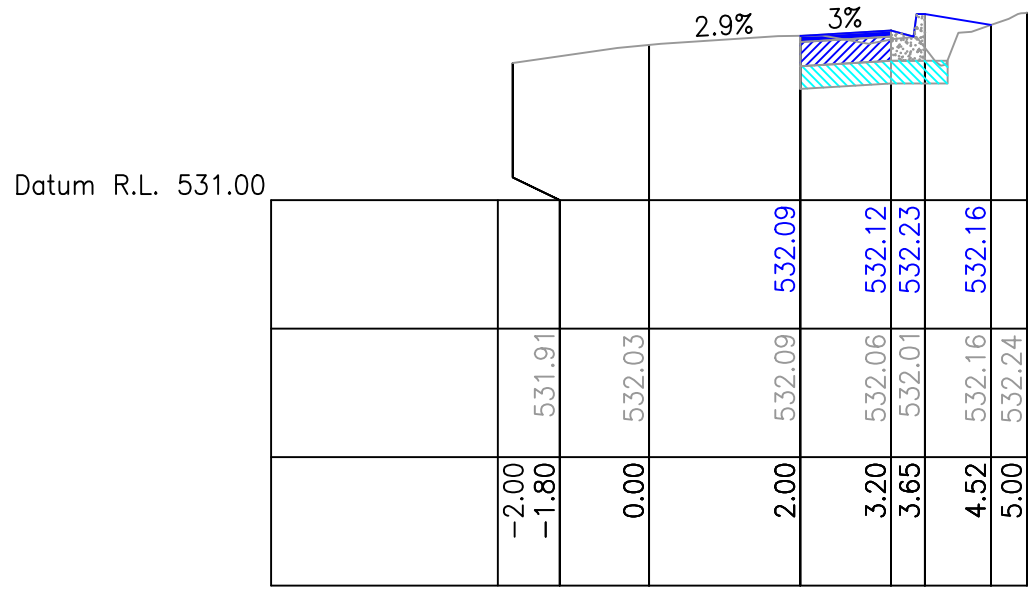
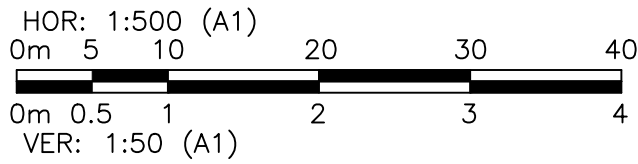
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IS 9000 CERTIFICATION
QUALITY ASSURED SYSTEM

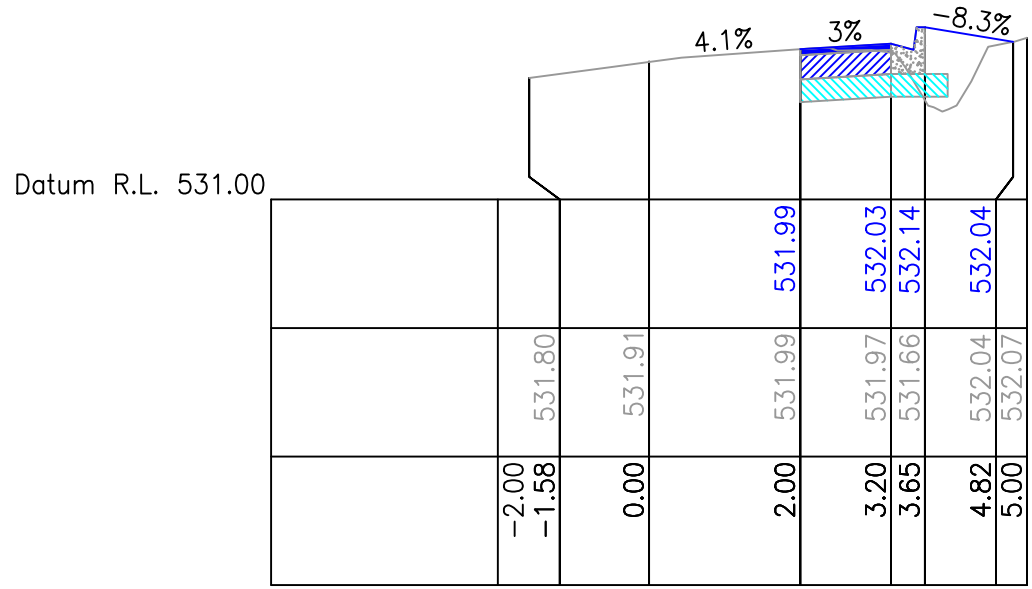
Client: -		SHEET 6 OF 22	DRAWING No. CR9756/6 RELEASE 05
KINGLAKE WEST KINGLAKE ROAD DESIGN CIVIL WORKS			
Service Rd Cross Section			
CAD: CR9756 Long&Cross Section Design			



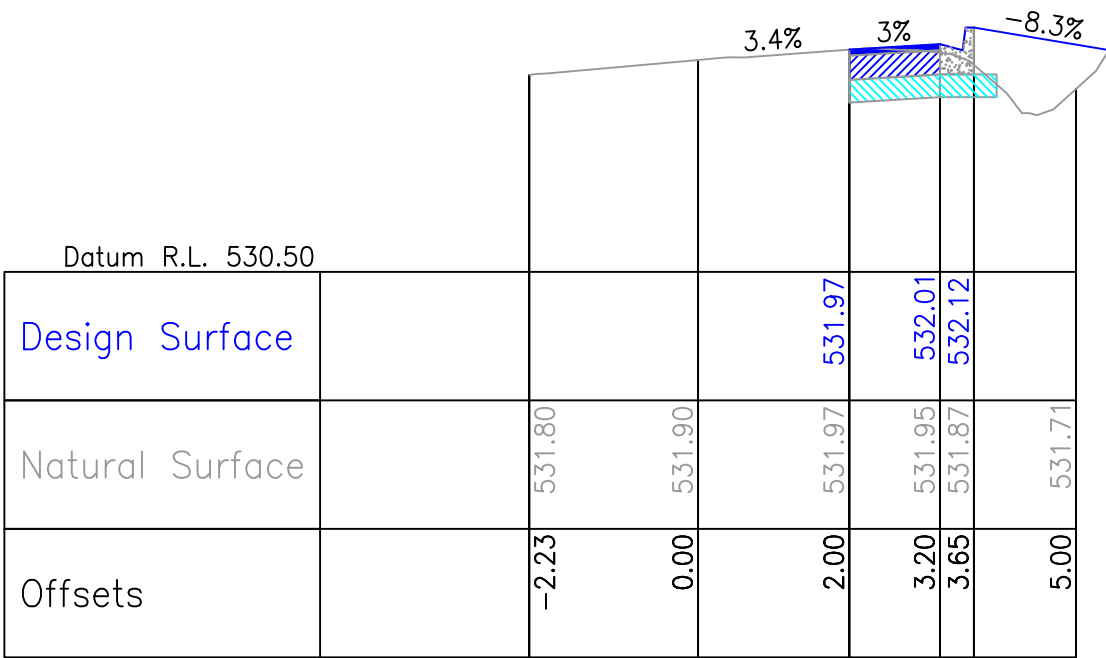
SERVICE ROAD LONGITUDINAL SECTION



Ch 30.00



Ch 24.81



Ch 20.00

- PAVEMENT:**
- SURFACING** - 40mm DEPTH SIZE 7mm TYPE N ASPHALT
 - BASE** - 160mm DEPTH CLASS 2 20mm FCR. MINIMUM CBR VALUE 80 AND COMPACT TO A MINIMUM DENSITY RATIO OF 98% MMDD.
 - SUB-BASE** - 150mm DEPTH CLASS 4 20mm FCR. MINIMUM CBR VALUE 30 AND COMPACT TO A MINIMUM DENSITY RATIO OF 98% MMDD.

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IDEAS INTO ACTION

PLANRIGHT

Civil Engineers, Irrigation Designers, Licensed Surveyors.

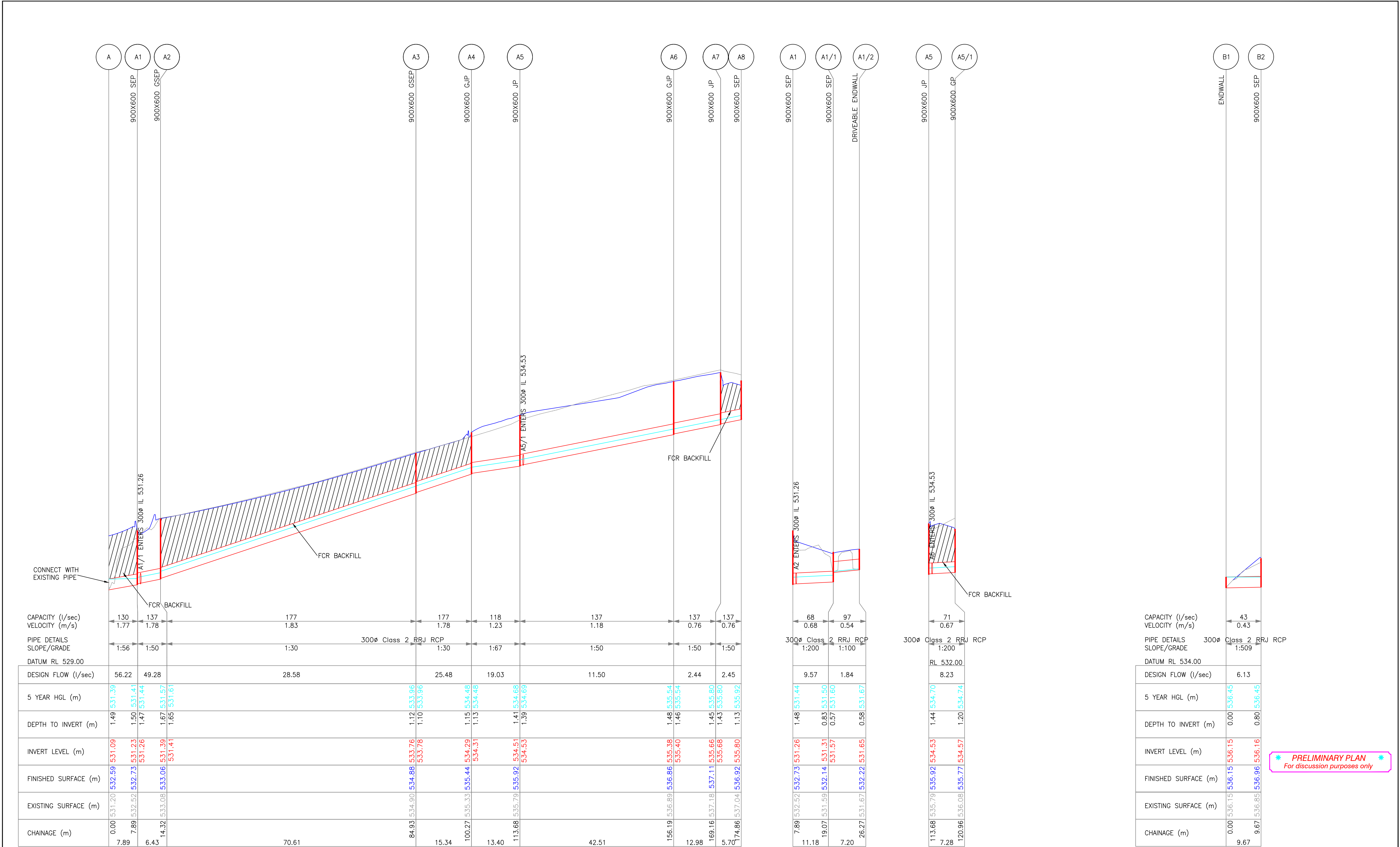
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Client: -	
KINGLAKE WEST KINGLAKE ROAD DESIGN CIVIL WORKS	
Jorgensen Parade Long & Cross Section	
CAD: CR9756 Long&Cross Section Design	PLOTTED: 17/09/2021

DRAWING No. CR9756/7
RELEASE 05
SHEET 7 OF 22



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RELEASE	H		
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	C		
No.	DATE	DESCRIPTION	

SCALE:	
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VER: 1:50 (A1)	
DOCUMENT PURPOSE:	
☐ PRELIMINARY ONLY	☐ CONSTRUCTION
☐ APPROVAL	☐ AS CONSTRUCTED
☐ FOR TENDER ONLY	☐ OTHER

B.M. No.:		B.M.El.:
DATUM: A.H.D.		
SURVEYED: Echuca		Planright
DESIGNED: SH		Apr '21
DRAWN: SH		Apr '21
CHECKED: MMc		Apr '21
ORIGINAL SHEET SIZE : A1		

PLANRIGHT

IDEAS INTO ACTION

Civil Engineers, Irrigation Designers, Licensed Surveyors.

139 Hogan Street, TATURA Ph. 03 58241322
24B Sydney St, KILMORE Ph. 03 57822238
21 Nish Street, ECHUCA Ph. 03 54821699

Email: results@planright.com.au

THIS PLAN PREPARED USING
AUTOCAD 2000 CERTIFIED
QUALITY ASSURED SYSTEM

Client: -

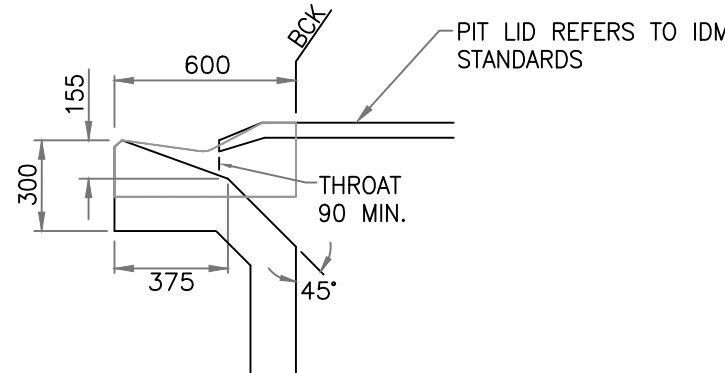
KINGLAKE WEST
KINGLAKE ROAD DESIGN
CIVIL WORKS

Drainage Long Section

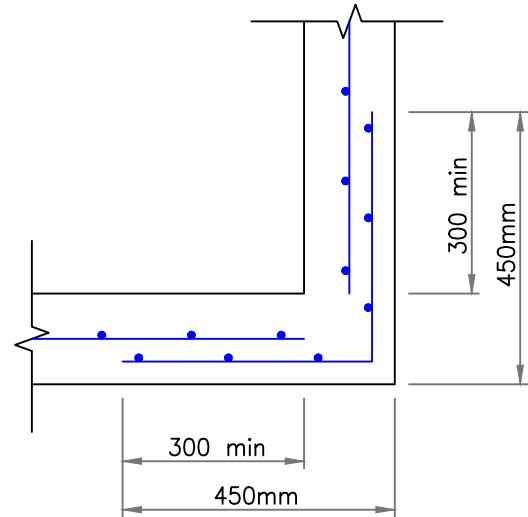
CAD: CR9756 Long&Cross Section Design

PLOTTED: 17/09/2021

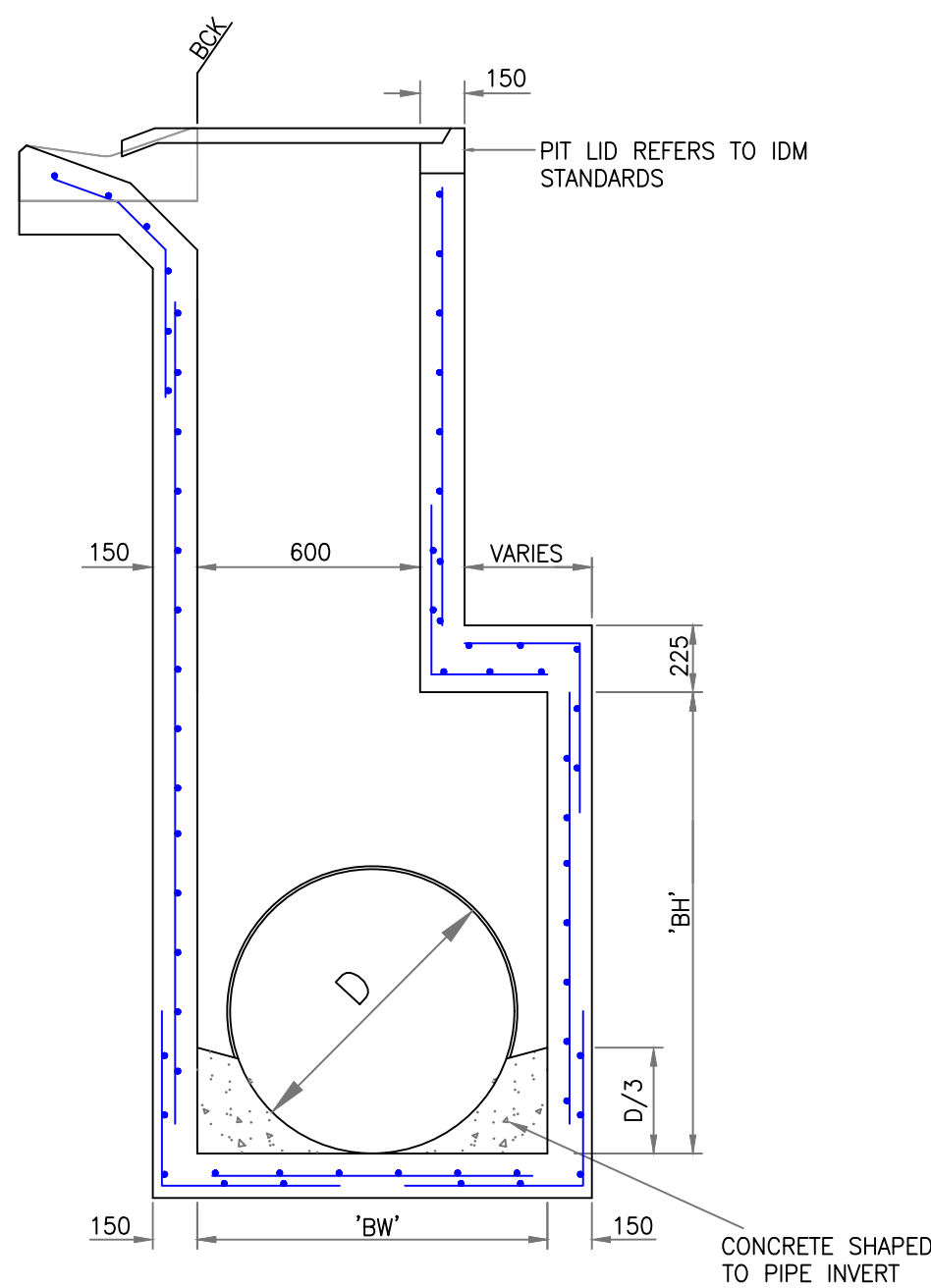
DRAWING No.
CR9756/8
SHEET 8 OF 22
RELEASE 05



STANDARD SIDE-ENTRY PIT
THROAT DETAILS
NOT TO SCALE



PIT CORNER DETAILS
PLAN VIEW
NOT TO SCALE



HAUNCHED PIT DETAILS
NOT TO SCALE

PIT LENGTH OR WIDTH	REINFORCEMENT
UP TO 1200	SL92
1201 - 1800	RL918
1801 - 2400	RL1218

'BW' & 'BH' (mm)	'D' (mm)
900	450
"	525
"	600
"	675
"	750
"	825
1200	900
"	975
"	1050
"	1125
1500	1200

PIT SCHEDULE – Drainage A										
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	
A	EXISTING PIPE					300	531.093			
A1	SEP	600	900	300	531.235	300	531.260	1.498	532.733	
						300	531.255			
A2	GSEP	600	900	300	531.389	300	531.409	1.676	533.065	
A1/1	SEP	600	900	300	531.311			0.828	532.139	
A1/2	300mm DRIVEABLE ENDWALL			300	531.646			0.575	532.221	
A3	GSEP	600	900	300	533.762	300	533.782	1.116	534.878	
A4	GJP	600	900	300	534.293	300	534.313	1.149	535.443	
A5	JP	600	900	300	534.514	300	534.534	1.414	535.928	
						300	534.534			
A6	GJP	600	900	300	535.384	300	535.404	1.481	536.865	
A5/1	GP	600	900	300	534.570			1.204	535.774	
A7	JP	600	900	300	535.664	300	535.684	1.446	537.110	
A8	SEP	600	900	300	535.798			1.127	536.925	

PIT SCHEDULE – Drainage B										
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	
B1	300mm ENDWALL					300	536.145			
B2	SEP	600	900	300	536.164			0.797	536.961	

STORMWATER NOTES

- ALL PITS UP TO 1200mm IN LENGTH OR WIDTH ARE TO BE CONSTRUCTED WITH SL92 REINFORCEMENT IN ACCORDANCE WITH INFRASTRUCTURE DESIGN MANUAL (IDM) DRAWING SD405 (UNHAUNCHED PITS) & SD410 (HAUNCHED PITS). REFER TO ABOVE IDM STANDARD DRAWINGS FOR REINFORCEMENT IN PITS GREATER THAN 1200mm IN LENGTH OR WIDTH.
- ALL PITS TO BE CONSTRUCTED IN ACCORDANCE WITH THE IDM & ITS RELEVANT STANDARD DRAWINGS WITHIN SD400-SD460 OR VICROADS RELEVANT STANDARD DRAWINGS WITHIN SD1001-SD1992.
- ALL PITS OUTSIDE OF TRAFFICABLE AREA SHOULD BE CONSTRUCTED WITH LIGHT WEIGHT PIT LIDS.
- PITS DEEPER THAN 1000mm TO BE FITTED WITH STEP IRONS.
- FOR TOP OF PIT DETAILS, REFER TO LONGITUDINAL SECTIONS AND RELEVANT STANDARD DRAWINGS.
- ALL STORMWATER PROPERTY CONNECTIONS TO BE 100# uPVC S_N6, ALL HOUSE DRAINS CROSSING UNDER ROAD PAVEMENT TO BE 150# OR EQUIVALENT AND CONSTRUCTED IN ACCORDANCE WITH IDM STANDARD DRAWING SD510, STORMWATER PROPERTY CONNECTIONS INTO PITS TO HAVE 450mm MINIMUM COVER. ALL PROPERTY CONNECTIONS ARE TO EXTEND MIN. 1m INTO PROPERTY AND FOOTPATH TO BE STAMPED "D" WHERE CONNECTION CROSSES.
- FOOTPATHS TO BE STAMPED WITH 'D' WHERE HOUSE CONNECTIONS CROSS.
- UNLESS OTHERWISE STATED, ALL DIMENSIONS ARE IN MILLIMETERS.
- ALL STORMWATER TRENCHES ARE TO BE COMPACTED TO AT LEAST 95% STANDARD COMPACTION.
- CONTRACTOR TO PROVIDE COMPACTION TESTING ON ALL DRAINAGE TRENCHES. LOCATION AND DEPTH OF TESTS TO BE DETERMINED BY SUPERINTENDENT, BUT MUST INCLUDE AT LEAST ONE TEST BETWEEN EACH STRUCTURE.
- HATCHED AREAS IN LONGITUDINAL SECTIONS INDICATE CRUSHED ROCK BACKFILL USING 20mm CLASS 3 FCR, COMPACTED TO AT LEAST 97% MODIFIED.
- ALL STORMWATER PIPES ARE TO BE RRJ RCP UNLESS OTHERWISE NOTED, AND ARE TO BE INSTALLED TO MANUFACTURERS SPECIFICATIONS.
- REFER TO IDM DRAWING SD310 FOR REQUIREMENTS FOR PIPES, BEDDING, TRENCH & COMPACTION.
- REFER TO IDM DRAWING SD535 FOR DRAINAGE PIPE ANCHOR BLOCK DETAILS

* PRELIMINARY PLAN
For discussion purposes only

DISCLAIMER

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	C	
	B	
No.	DATE	DESCRIPTION

SCALE:

B.M. No.:

B.M.El.:

DATUM: A.H.D.

SURVEYED: Echuca

Planright

DESIGNED: SH

Apr '21

DRAWN: SH

Apr '21

CHECKED: MMc

Apr '21

ORIGINAL SHEET SIZE : A1

DOCUMENT PURPOSE:

- ☐ PRELIMINARY ONLY ☐ CONSTRUCTION
☐ APPROVAL ☐ AS CONSTRUCTED
☐ FOR TENDER ONLY ☐ OTHER

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24B Sydney St, KILMORE Ph. 03 57822238
21 Nish Street, ECHUCA Ph. 03 54821699
Email: results@planright.com.au

THIS PLAN PREPARED USING
THE LATEST CERTIFIED
QUALITY ASSURED SYSTEM

Client: -

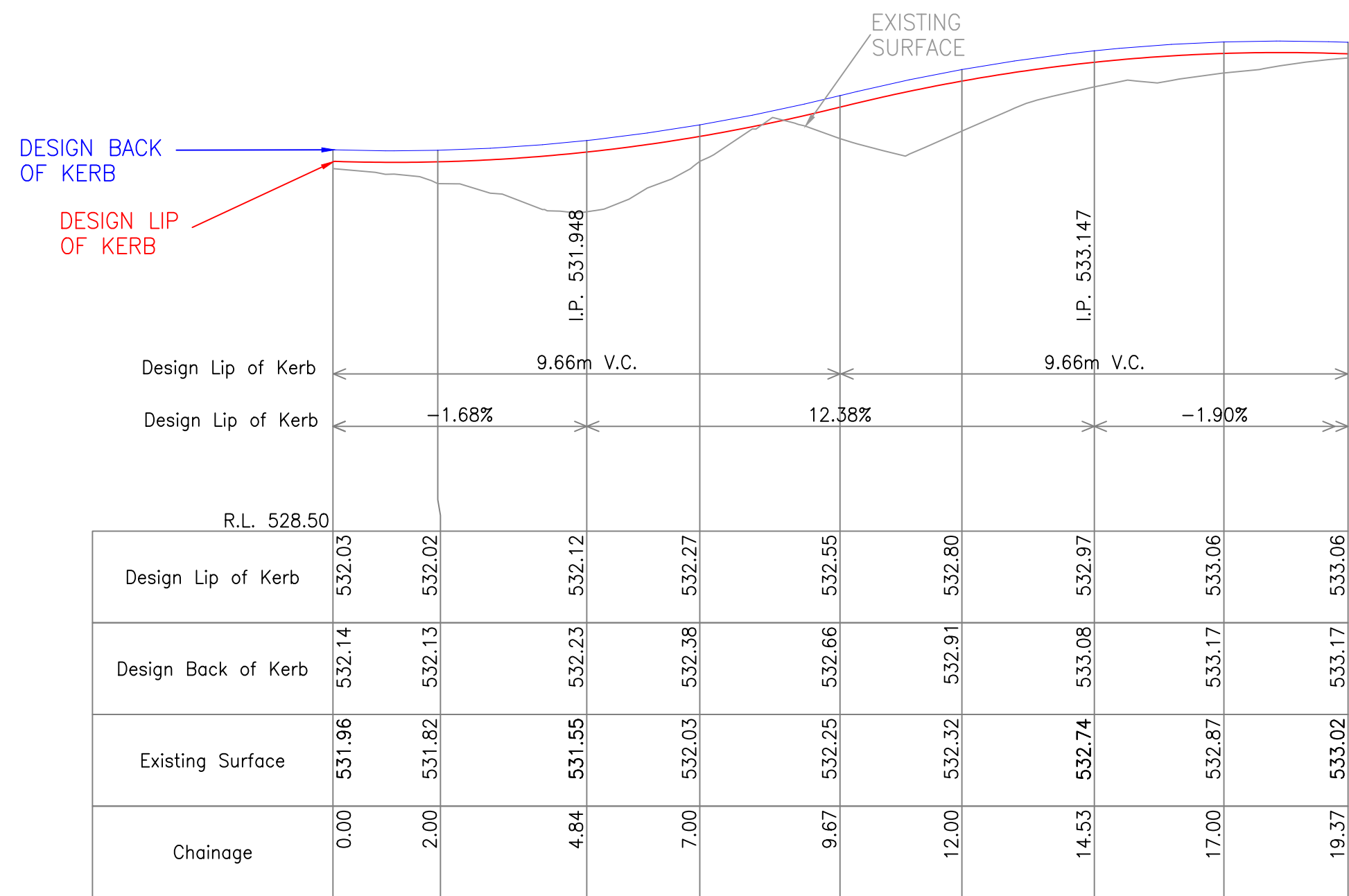
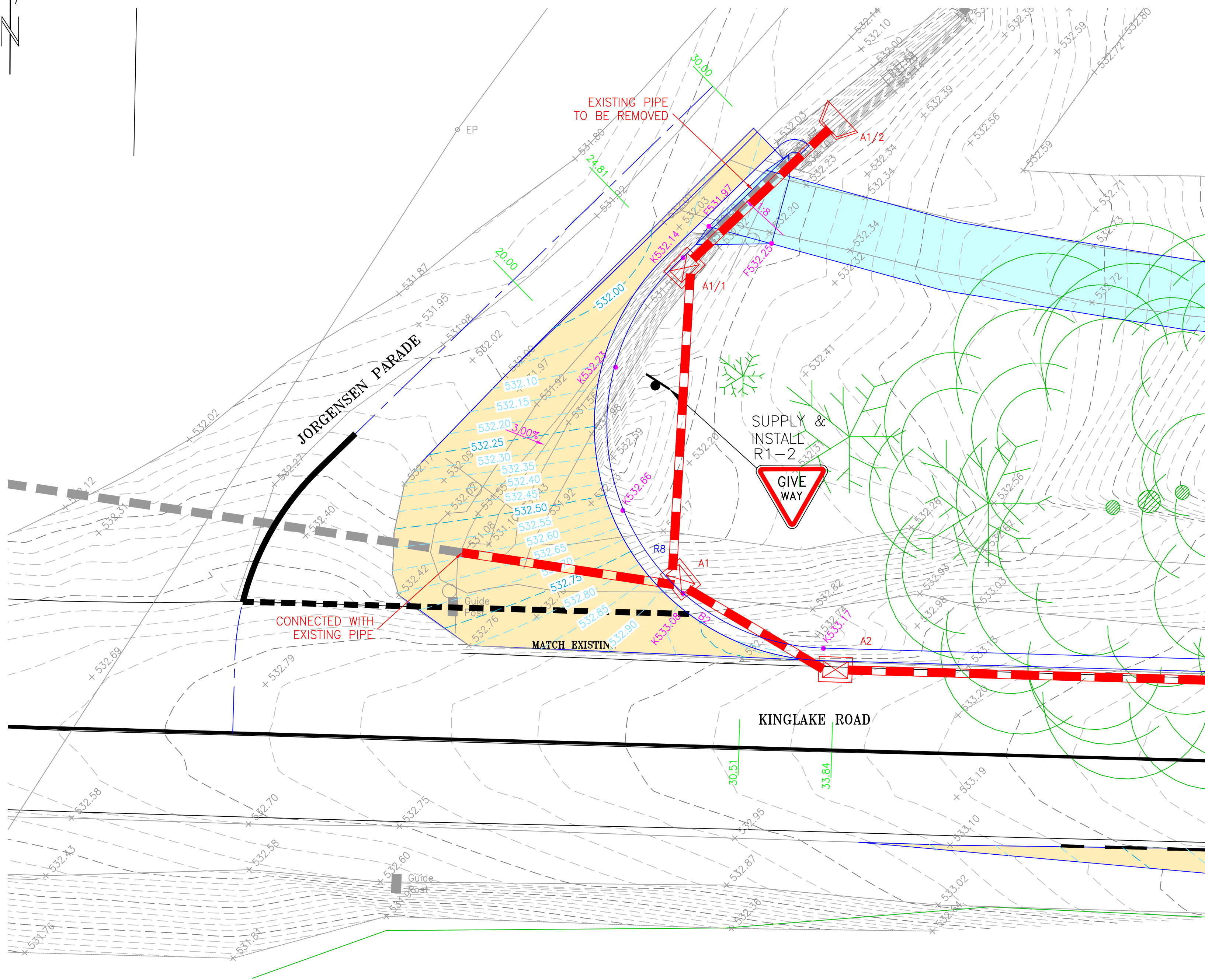
KINGLAKE WEST
KINGLAKE ROAD DESIGN
CIVIL WORKS

Drainage Pit Schedule

CAD: CR9756 Long&Cross Section Design

PLOTTED: 17/09/2021

DRAWING No.
CR9756/9
RELEASE 05
SHEET 9 OF 22



Longitudinal Section - Kinglake Road & Jorgensen Parade
Right Side Kerb Return

LEGEND

- EXISTING SURFACE LEVELS
- EXISTING FEATURE
- PROPOSED UNDERGROUND DRAINAGE
- PROPOSED DRAINAGE PIT
- PROPOSED FOOTPATH
- PROPOSED PAVEMENT
- PROPOSED PARKING PAVEMENT
- PROPOSED LANDSCAPE AREA (APPROVED NATIVE SPECIES)
- PROPOSED LIGHT POLE
- PROPOSED KERB AND CHANNEL
- PROPOSED LAYBACK
- PROPOSED DRAINAGE LAYBACK
- PROPOSED CRUSH ROCK TIMBER
- TIMBER EDGE AROUND TREE

- NOTES**
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	A	
No.	DATE	DESCRIPTION

SCALE:

HOR: 1:100 (A1)

0m 1 2 4 6 8

VER: N/A

DOCUMENT PURPOSE:

☐ PRELIMINARY ONLY ☐ CONSTRUCTION

☐ APPROVAL ☐ AS CONSTRUCTED

☐ FOR TENDER ONLY ☐ OTHER

B.M. No.:	B.M.El.:
DATUM: A.H.D.	
SURVEYED: Echuca	Planright
DESIGNED: SH	Apr '21
DRAWN: SH	Apr '21
CHECKED: MMc	Apr '21
ORIGINAL SHEET SIZE : A1	

PLANRIGHT

IDEAS INTO ACTION

Civil Engineers, Irrigation Designers, Licensed Surveyors.

139 Hogan Street, TATURA Ph. 03 58241322

24B Sydney St, KILMORE Ph. 03 57822238

21 Nish Street, ECHUCA Ph. 03 54821699

Email: results@planright.com.au

THIS PLAN PREPARED USING
IS 9000 COMPLIANT
QUALITY ASSURED SYSTEM

Client: -

KINGLAKE WEST

KINGLAKE ROAD DESIGN

CIVIL WORKS

Intersection Detail(1)

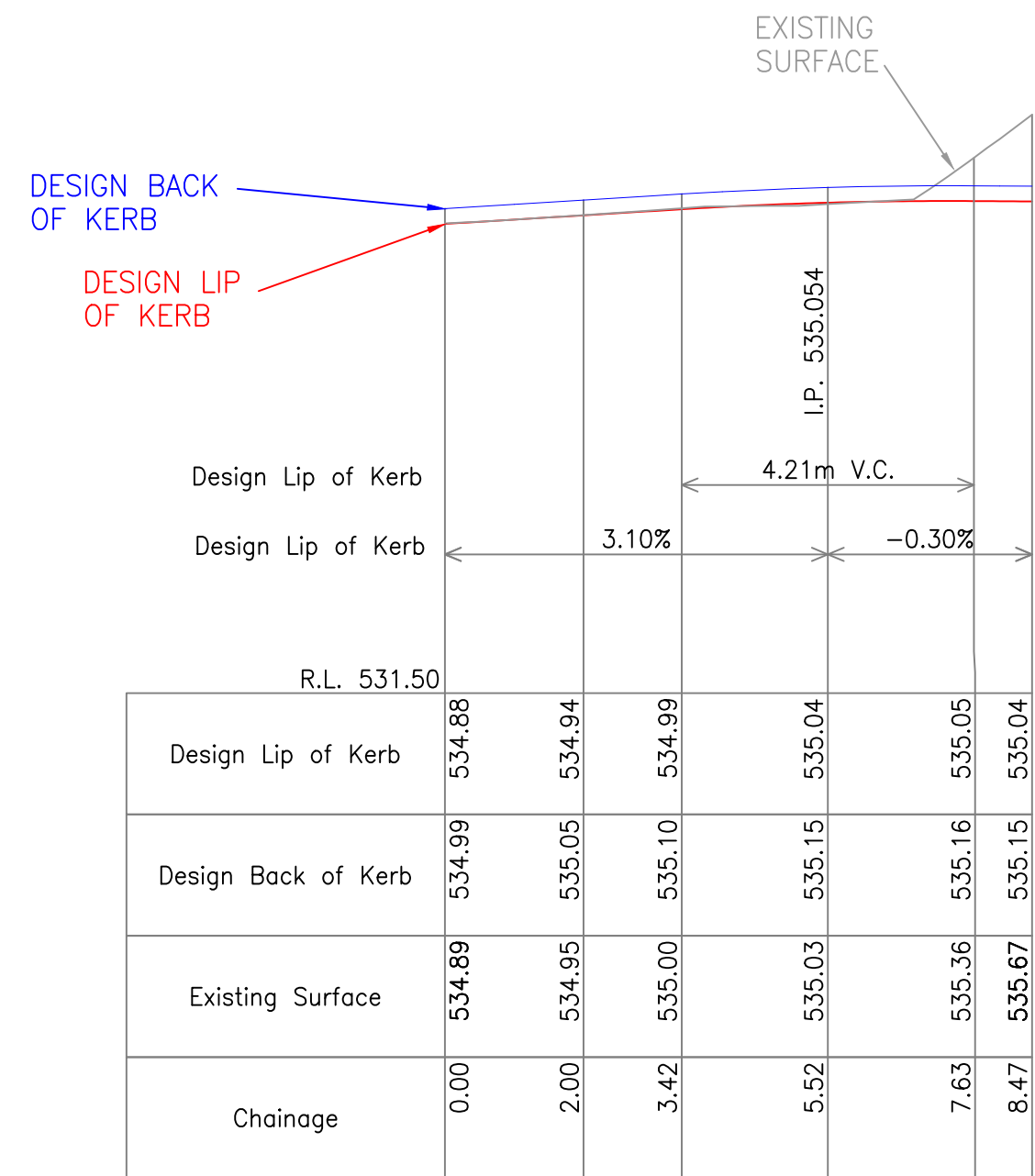
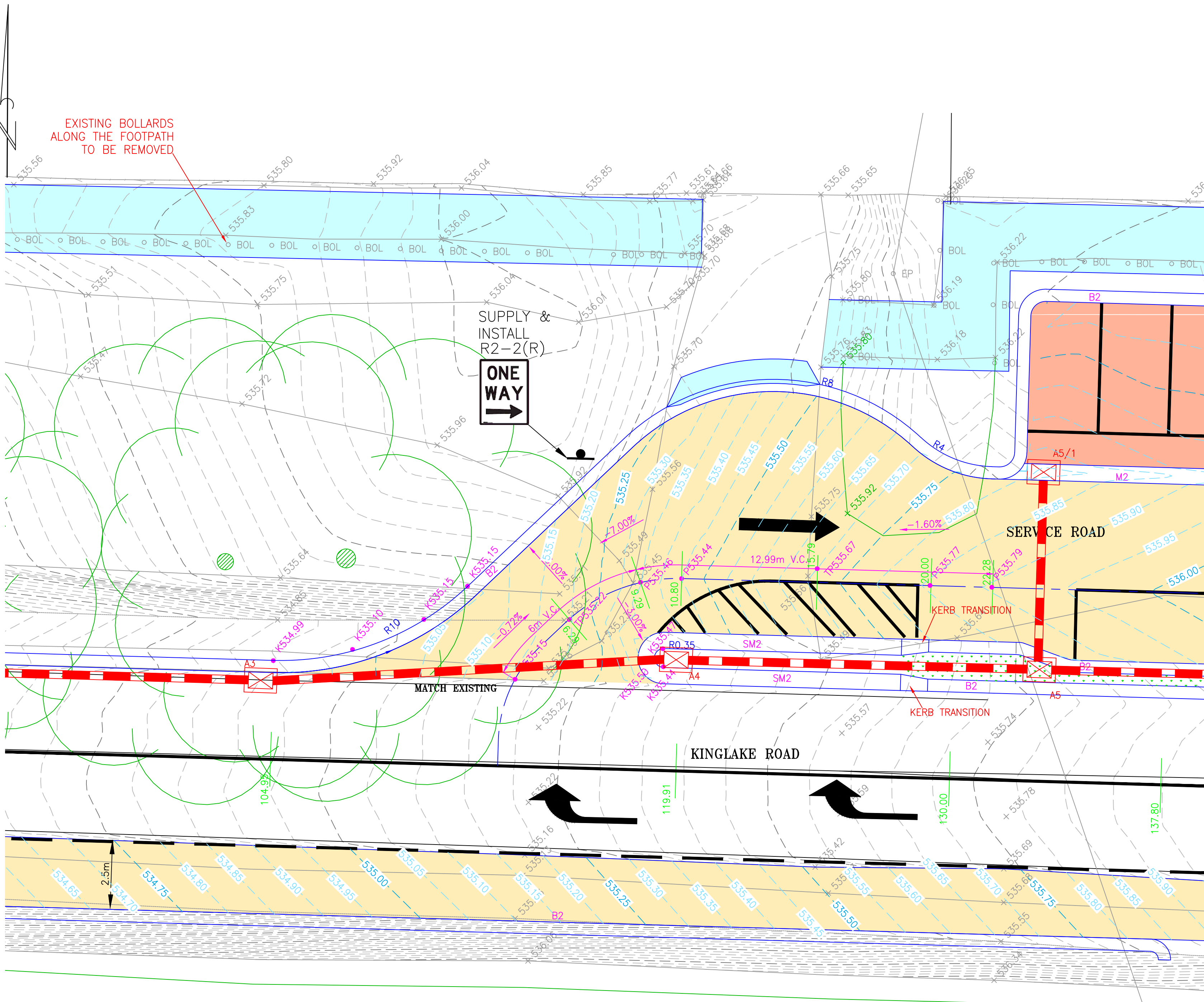
CAD: CR9756 Intersection Detail

PLOTTED: 17/09/2021

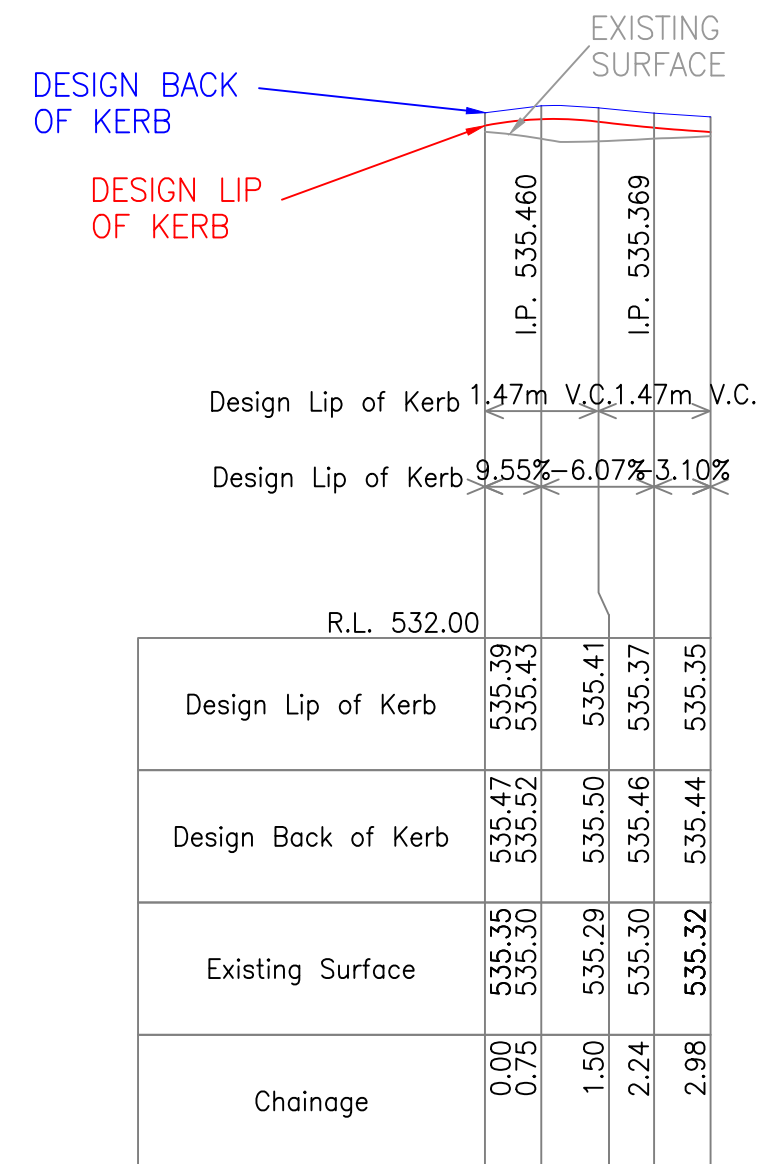
DRAWING No.
CR9756/10

SHEET 10 OF 22

RELEASE 05



Longitudinal Section - Kinglake Road & Service Road Entry
Left Side Kerb Return



Longitudinal Section - Kinglake Road & Service Road Entry
Right Side Kerb Return

LEGEND

- EXISTING SURFACE LEVELS
- EXISTING FEATURE
- PROPOSED UNDERGROUND DRAINAGE
- PROPOSED DRAINAGE PIT
- PROPOSED FOOTPATH
- PROPOSED PAVEMENT
- PROPOSED PARKING PAVEMENT
- PROPOSED LANDSCAPE AREA (APPROVED NATIVE SPECIES)
- PROPOSED LIGHT POLE
- PROPOSED KERB AND CHANNEL
- PROPOSED LAYBACK
- PROPOSED DRAINAGE LAYBACK
- PROPOSED CRUSH ROCK TIMBER
- PROPOSED CRUSH ROCK TIMBER

NOTES

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PRELIMINARY PLAN
For discussion purposes only

WARNING

POWER/TELSTRA LAYOUT SHOWN IS INDICATIVE ONLY. LOCATION TO BE CONFIRMED BY RELEVANT AUTHORITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION

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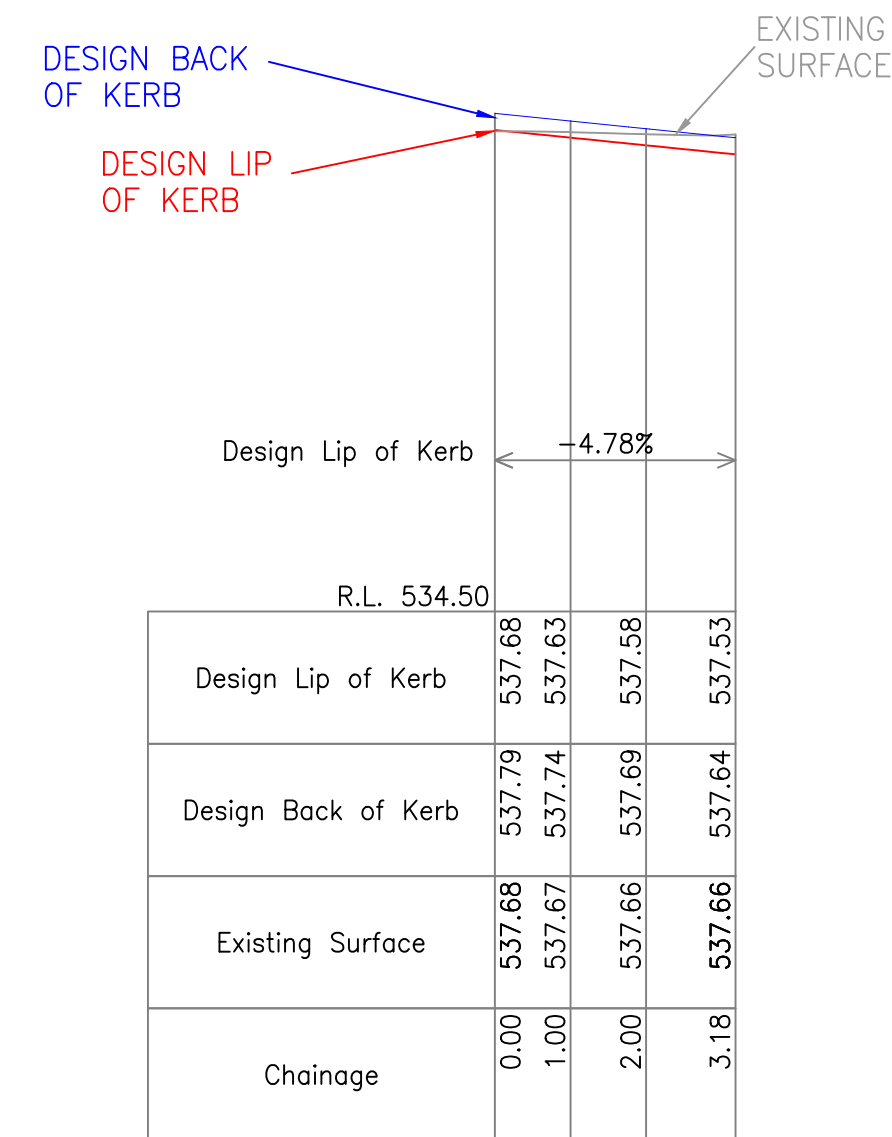
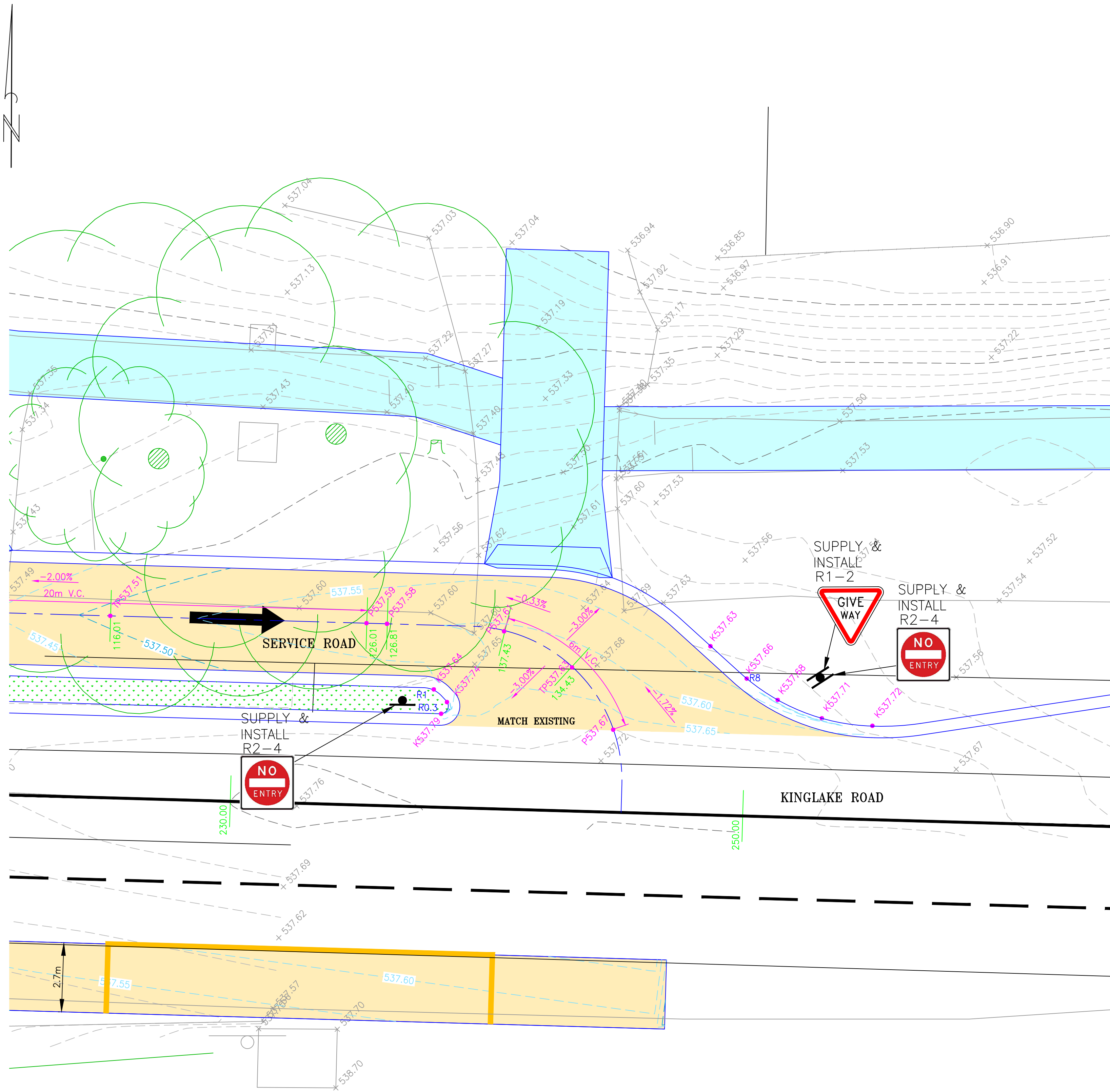
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VER: N/A	
DOCUMENT PURPOSE:	
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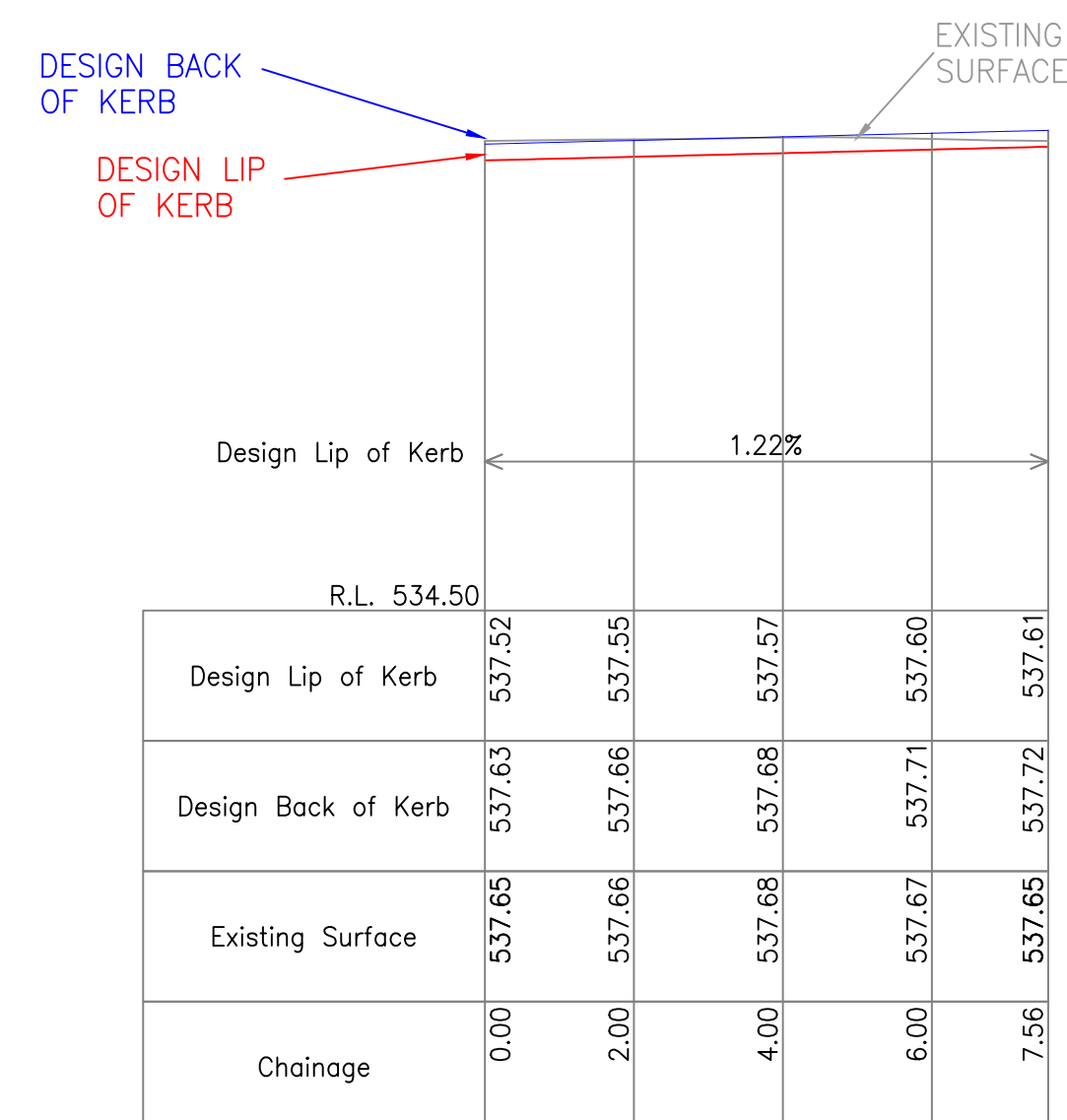
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THIS PLAN PREPARED USING
IS 9000 COMPLIANT
QUALITY ASSURED SYSTEM

Client: -	DRAWING No. CR9756/11
KINGLAKE WEST KINGLAKE ROAD DESIGN CIVIL WORKS	SHEET 11 OF 22
Intersection Detail(2)	RELEASE 05
CAD: CR9756 Intersection Detail	PLOTTED: 17/09/2021



Longitudinal Section - Kinglake Road & Service Road Exit
Right Side Kerb Return



Longitudinal Section - Kinglake Road & Service Road Exit
Left Side Kerb Return

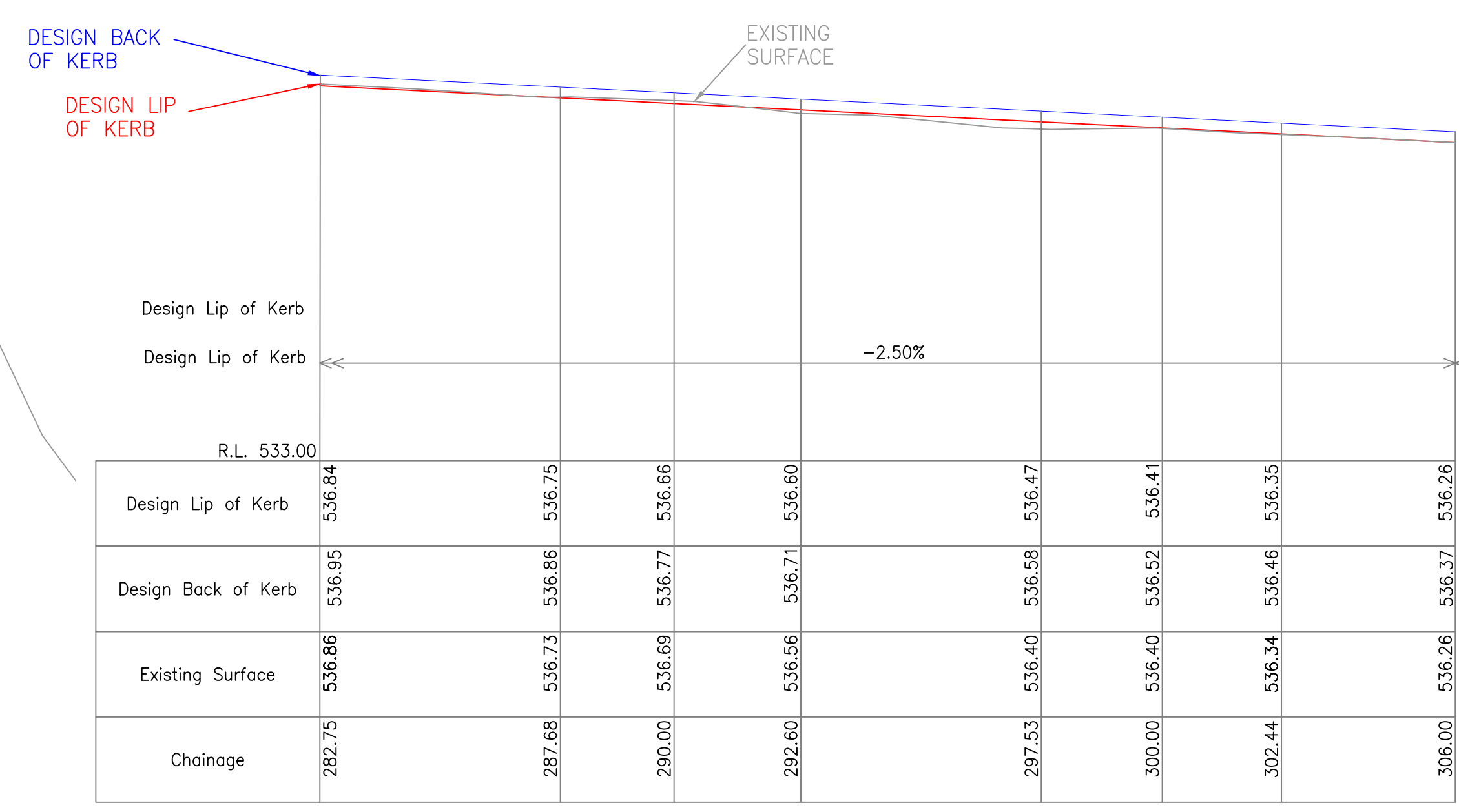
LEGEND

- EXISTING SURFACE LEVELS
- EXISTING FEATURE
- PROPOSED UNDERGROUND DRAINAGE
- PROPOSED DRAINAGE PIT
- PROPOSED FOOTPATH
- PROPOSED PAVEMENT
- PROPOSED PARKING PAVEMENT
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- PROPOSED CRUSH ROCK TIMBER
- PROPOSED TIMBER EDGE AROUND TREE

- NOTES**
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PRELIMINARY PLAN
For discussion purposes only

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Design Lip of Kerb	536.84	536.75	536.66	536.60	536.47	536.41	536.35	536.26
Design Back of Kerb	536.95	536.86	536.77	536.71	536.58	536.52	536.46	536.37
Existing Surface	536.86	536.73	536.69	536.56	536.40	536.40	536.34	536.26
Chainage	282.75	287.68	290.00	292.60	297.53	300.00	302.44	306.00

- ## NOTES
1. ALL PITS UP TO 1200mm IN LENGTH OR WIDTH ARE TO BE CONSTRUCTED WITH SL92 REINFORCEMENT IN ACCORDANCE WITH INFRASTRUCTURE DESIGN MANUAL (IDM) DRAWING SD405 (UNHAUNCHED PITS) & SD410 (HAUNCHED PITS). REFER TO ABOVE IDM STANDARD DRAWINGS FOR REINFORCEMENT IN PITS GREATER THAN 1200mm IN LENGTH OR WIDTH.
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LEGEND

--- > 77.80

----- EXISTING SURFACE LEVELS

----- EXISTING FEATURE

----- PROPOSED UNDERGROUND DRAINAGE

☒ PROPOSED DRAINAGE PIT

□ PROPOSED FOOTPATH

□ PROPOSED PAVEMENT

□ PROPOSED PARKING PAVEMENT

□ PROPOSED LANDSCAPE AREA (APPROVED NATIVE SPECIES)

● PROPOSED LIGHT POLE

==== PROPOSED KERB AND CHANNEL

==== PROPOSED LAYBACK

==== PROPOSED DRAINAGE LAYBACK

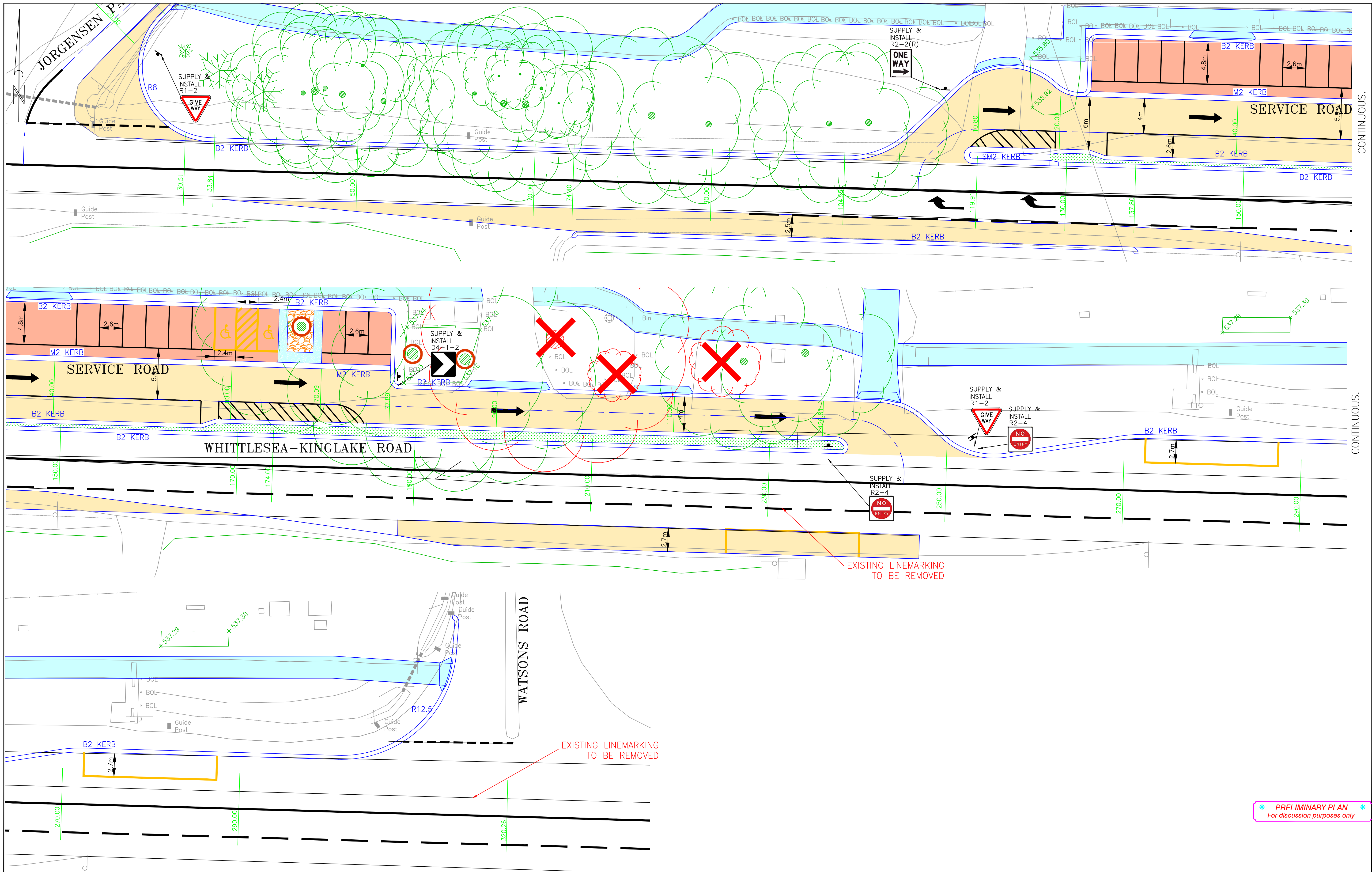
==== PROPOSED CRUSH ROCK TIMBER

==== TIMBER EDGE AROUND TREE

WARNING

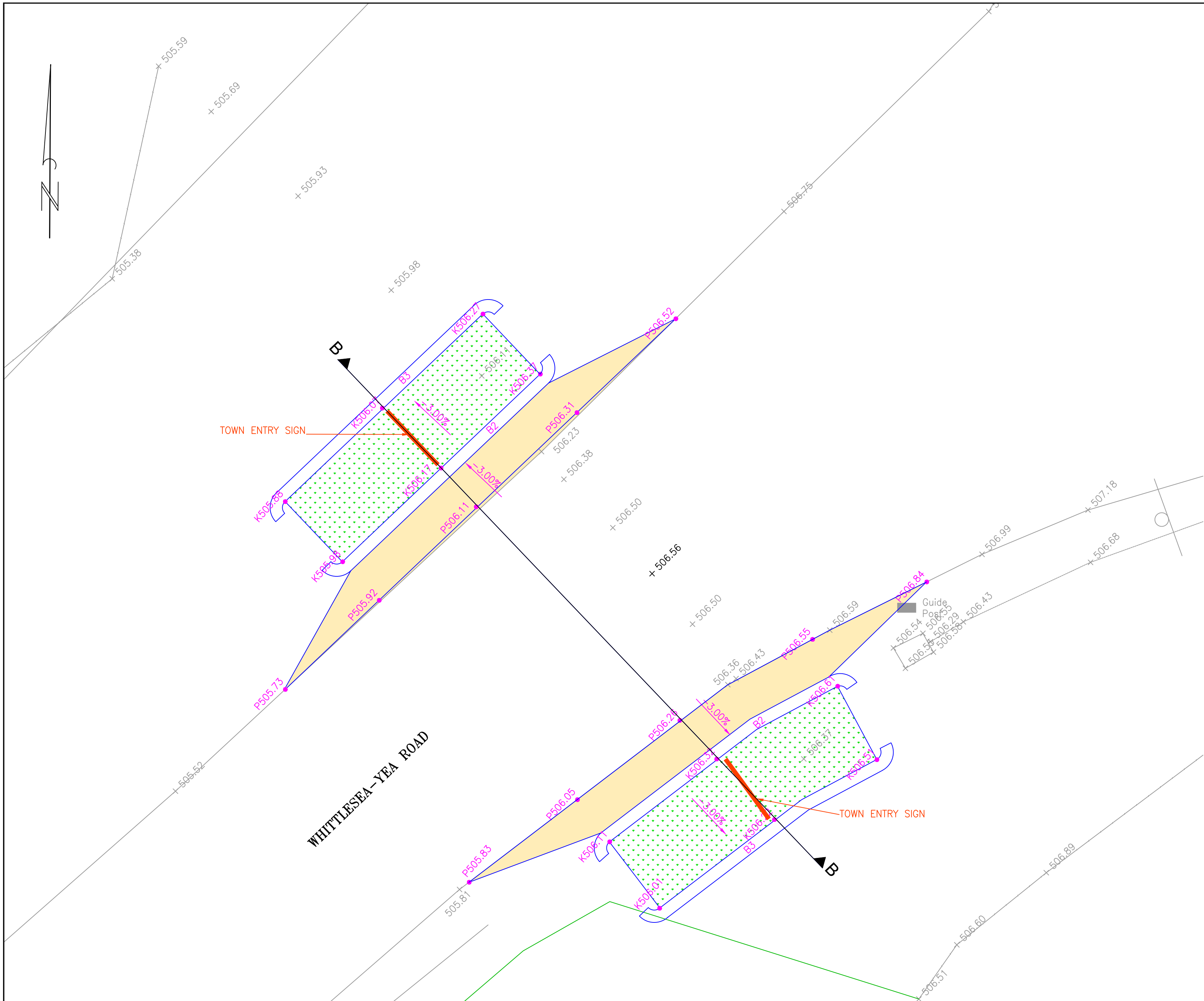
POWER/TELSTRA LAYOUT SHOWN IS INDICATIVE ONLY. LOCATION TO BE CONFIRMED BY RELEVANT AUTHORITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION

DISCLAIMER Notwithstanding any description contained in the Plans or Specification the Contractor shall be responsible for satisfying himself as to the nature and extent of the specified works and the physical and legal conditions under which the works will be carried out, including means of access, extent of clearing, nature of material to be excavated, type and size of mechanical plant required and any like matters effecting the construction of the works. ©INFORMATION CONTAINED ON THIS DRAWING IS THE COPYRIGHT OF PLANRIGHT AUSTRALASIA Pty. Ltd. COPYING OR USING THIS DRAWING IN WHOLE OR PART WITHOUT PERMISSION INFRINGES COPYRIGHT.		WARNING BEWARE OF UNDERGROUND SERVICES The location of underground services, where shown, are approximate only. All authorities must be contacted prior to construction to determine the exact location of all underground services.		RELEASE <table border="1"> <tr><td>H</td><td></td></tr> <tr><td>G</td><td></td></tr> <tr><td>F</td><td></td></tr> <tr><td>E</td><td></td></tr> <tr><td>D</td><td></td></tr> <tr><td>C</td><td></td></tr> <tr><td>B</td><td></td></tr> <tr><td>No.</td><td>DATE</td></tr> <tr><td></td><td>DESCRIPTION</td></tr> </table>		H		G		F		E		D		C		B		No.	DATE		DESCRIPTION	SCALE: HOR: 1:100 (A1) VER: N/A DOCUMENT PURPOSE: <table border="0"> <tr> <td>☐ PRELIMINARY ONLY</td> <td>☐ CONSTRUCTION</td> </tr> <tr> <td>☐ APPROVAL</td> <td>☐ AS CONSTRUCTED</td> </tr> <tr> <td>☐ FOR TENDER ONLY</td> <td>☐ OTHER</td> </tr> </table>		☐ PRELIMINARY ONLY	☐ CONSTRUCTION	☐ APPROVAL	☐ AS CONSTRUCTED	☐ FOR TENDER ONLY	☐ OTHER	<table border="1"> <tr> <td colspan="2">B.M. No.:</td> <td colspan="2">B.M.El.:</td> </tr> <tr> <td colspan="2">DATUM: A.H.D.</td> <td colspan="2"></td> </tr> <tr> <td>SURVEYED: Echuca</td> <td colspan="3">Planright</td> </tr> <tr> <td>DESIGNED: SH</td> <td colspan="3">Apr '21</td> </tr> <tr> <td>DRAWN: SH</td> <td colspan="3">Apr '21</td> </tr> <tr> <td>CHECKED: MMc</td> <td colspan="3">Apr '21</td> </tr> <tr> <td colspan="4">ORIGINAL SHEET SIZE : A1</td> </tr> </table>		B.M. No.:		B.M.El.:		DATUM: A.H.D.				SURVEYED: Echuca	Planright			DESIGNED: SH	Apr '21			DRAWN: SH	Apr '21			CHECKED: MMc	Apr '21			ORIGINAL SHEET SIZE : A1				IDEAS INTO ACTION Civil Engineers, Irrigation Designers, Licensed Surveyors. 139 Hogan Street, TATURA Ph. 03 58241322 24B Sydney St, KILMORE Ph. 03 57822238 21 Nish Street, ECHUCA Ph. 03 54821699 Email: results@planright.com.au		THIS PLAN PREPARED USING AN ISO 9001 CERTIFIED QUALITY ASSURED SYSTEM		Client: - KINGLAKE WEST KINGLAKE ROAD DESIGN CIVIL WORKS Intersection Detail(4) CAD: CR9756 Intersection Detail		SHEET 13 OF 22	DRAWING No CR9756/13 RELEASE 05	PLOTTED: 17/09/2021
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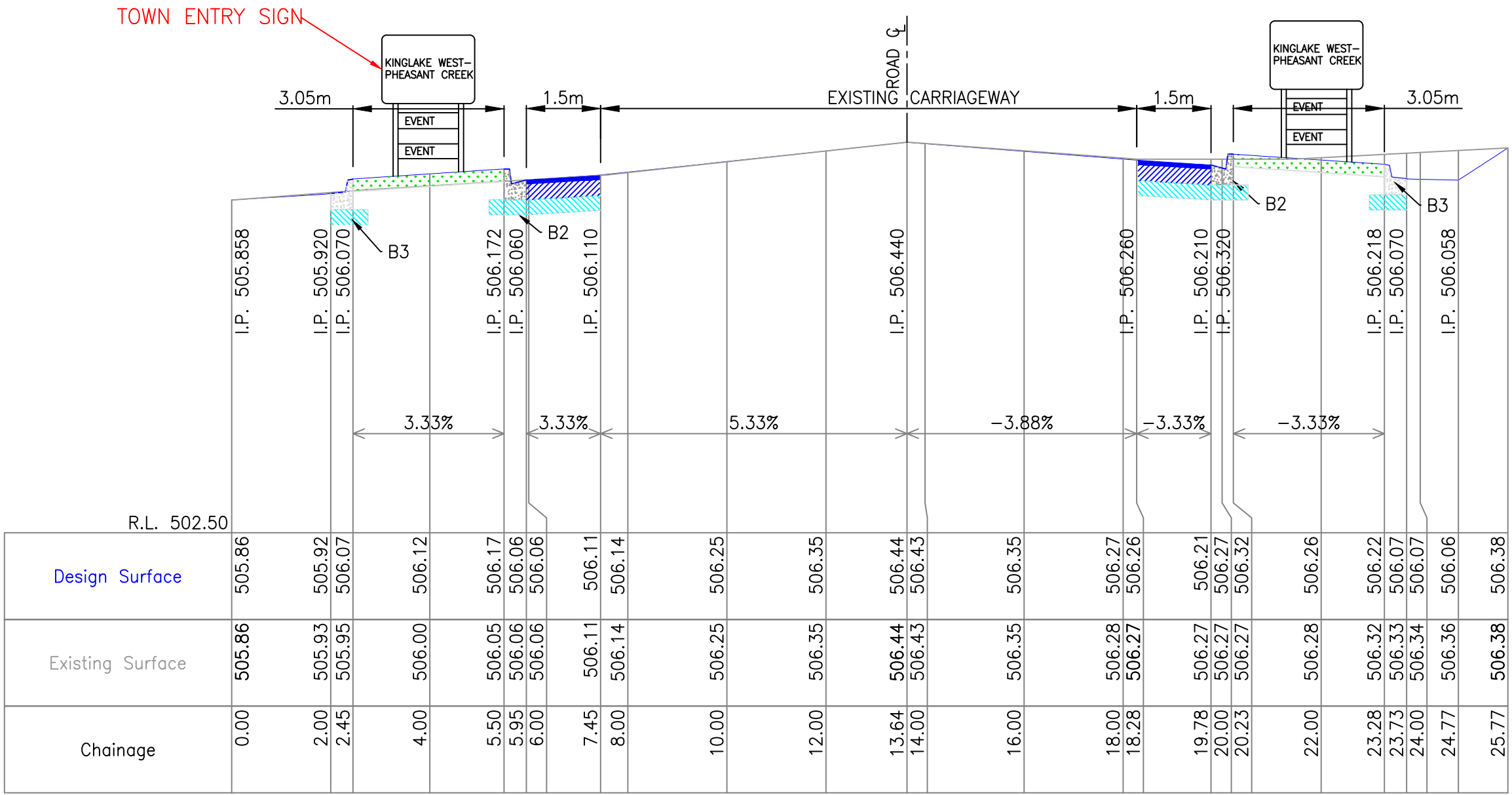


* PRELIMINARY PLAN *
For discussion purposes only

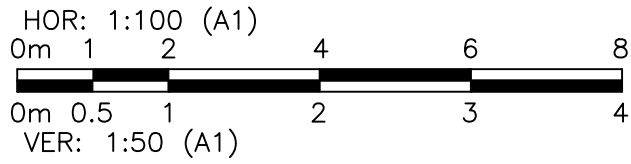
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PAVEMENT:
SURFACING - 40mm DEPTH SIZE 7mm TYPE N ASPHALT
BASE - 160mm DEPTH CLASS 2 20mm FCR. MINIMUM CBR VALUE 80 AND COMPACT TO A MINIMUM DENSITY RATIO OF 98% MMDD.
SUB-BASE - 150mm DEPTH CLASS 4 20mm FCR. MINIMUM CBR VALUE 30 AND COMPACT TO A MINIMUM DENSITY RATIO OF 98% MMDD.



Cross Section B-B



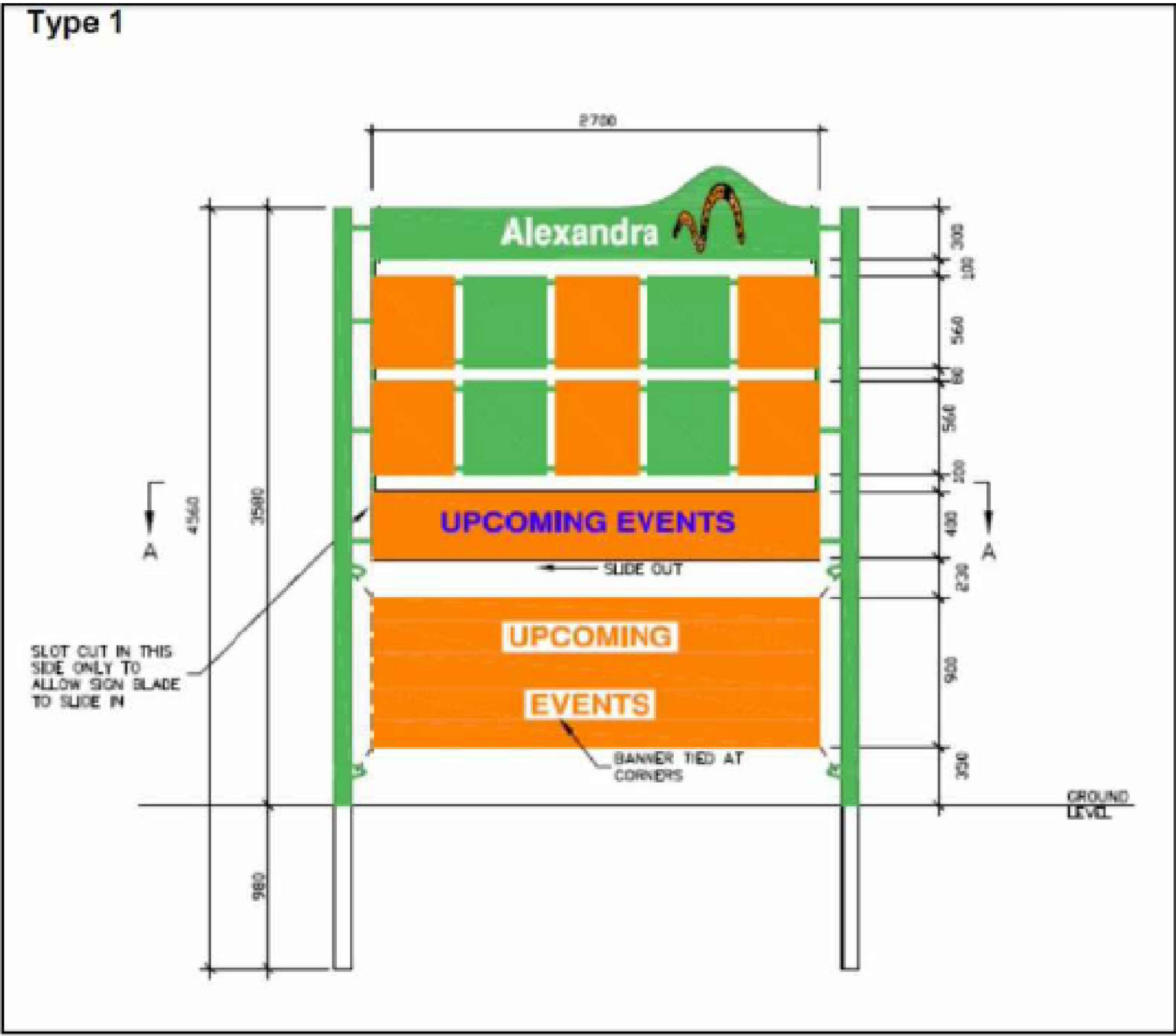
- NOTES**
- ALL PITS UP TO 1200mm IN LENGTH OR WIDTH ARE TO BE CONSTRUCTED WITH SL92 REINFORCEMENT IN ACCORDANCE WITH INFRASTRUCTURE DESIGN MANUAL (IDM) DRAWING SD405 (UNHAUNCHED PITS) & SD410 (HAUNCHED PITS). REFER TO ABOVE IDM STANDARD DRAWINGS FOR REINFORCEMENT IN PITS GREATER THAN 1200mm IN LENGTH OR WIDTH.
 - ALL STANDARD PIT DETAILS SHOULD REFERENCE IDM STANDARDS IN FIRST INSTANCE.
 - ALL DRAINAGE PIPES 225Ø OR GREATER TO BE RRJ RCP, ALL DRAINAGE PIPES 150Ø OR LESS TO BE RRJ uPVC & WATER TIGHT.
 - ALL STORMWATER PROPERTY CONNECTIONS TO BE 100Ø uPVC SN6 OR EQUIVALENT AND CONSTRUCTED IN ACCORDANCE WITH IDM STANDARD DRAWING SD510, STORMWATER PROPERTY CONNECTIONS INTO PITS TO HAVE 450mm MINIMUM COVER. ALL PROPERTY CONNECTIONS ARE TO EXTEND MIN. 1m INTO PROPERTY AND FOOTPATH TO BE STAMPED "D" WHERE CONNECTION CROSSES.
 - ALL STORMWATER TRENCHES ARE TO BE COMPACTED TO AT LEAST 95% STANDARD COMPACTION.
 - ALL UNDERGROUND SERVICES CROSSING UNDER ROADS SHALL HAVE THE APPROPRIATE INITIAL STAMPED ON THE KERB TO IDENTIFY THE SERVICE LOCATION. FOOTPATHS SHALL BE STAMPED WITH "D" WHERE HOUSE CONNECTIONS CROSS.
 - FOOTPATH AND PEDESTRIAN CROSSINGS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH IDM DRAWINGS SD200, SD205 AND SD210.

PRELIMINARY PLAN
For discussion purposes only

WARNING
POWER/TELSTRA LAYOUT SHOWN IS INDICATIVE ONLY. LOCATION TO BE CONFIRMED BY RELEVANT AUTHORITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION

LEGEND

- EXISTING SURFACE LEVELS
- EXISTING FEATURE
- PROPOSED UNDERGROUND DRAINAGE
- PROPOSED DRAINAGE PIT
- PROPOSED FOOTPATH
- PROPOSED PAVEMENT
- PROPOSED PARKING PAVEMENT
- PROPOSED LANDSCAPE AREA (APPROVED NATIVE SPECIES)
- PROPOSED LIGHT POLE
- PROPOSED KERB AND CHANNEL
- PROPOSED LAYBACK
- PROPOSED DRAINAGE LAYBACK
- PROPOSED CRUSH ROCK TIMBER
- PROPOSED CRUSH ROCK TIMBER EDGE AROUND TREE



TOWN ENTRY STANDARD TOWNSHIP SIGNAGE TEMPLATE

NAMES WILL BE UPDATED WHEN TIME ALLOWS

DISCLAIMER

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No.	DATE	DESCRIPTION

SCALE:
HOR: 1:100 (A1)
0m 1 2 4 6 8
VER: N/A

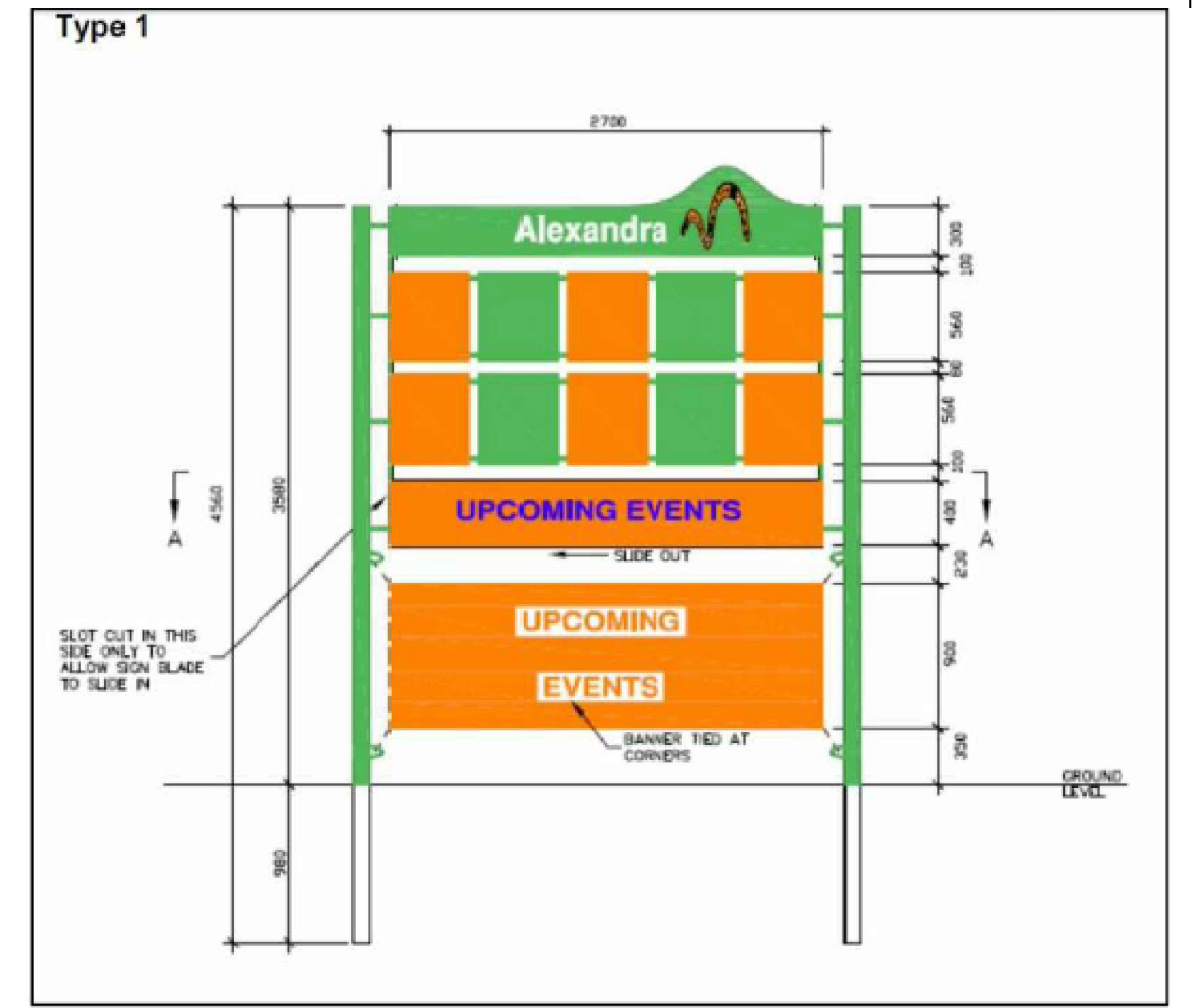
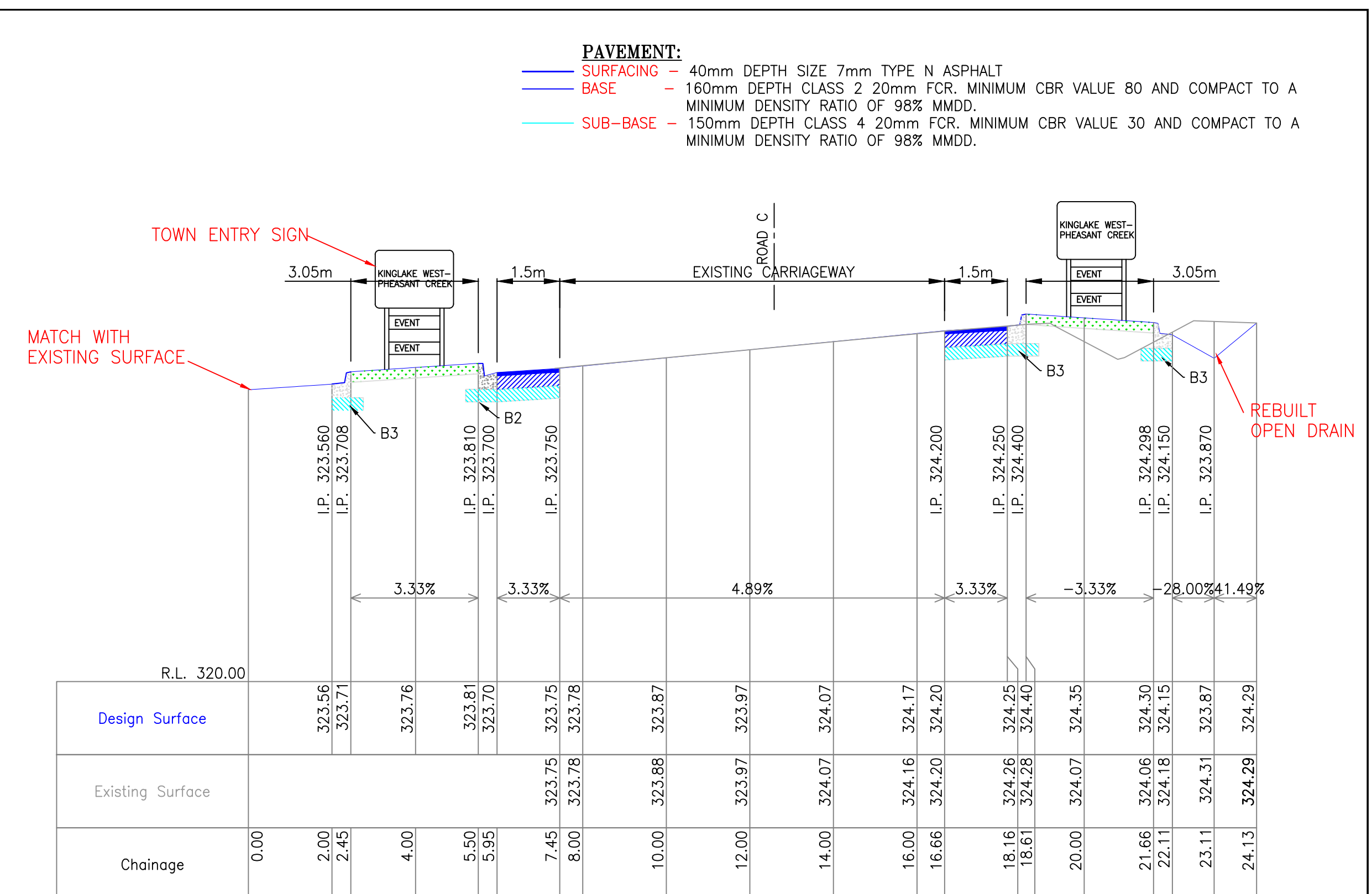
DOCUMENT PURPOSE:
☐ PRELIMINARY ONLY ☐ CONSTRUCTION
☐ APPROVAL ☐ AS CONSTRUCTED
☐ FOR TENDER ONLY ☐ OTHER

B.M. No.:	B.M.E.I.:
DATUM: A.H.D.	
SURVEYED: Echuca	Planright
DESIGNED: SH	Apr '21
DRAWN: SH	Apr '21
CHECKED: MMc	Apr '21
ORIGINAL SHEET SIZE : A1	

PLANRIGHT
Civil Engineers, Irrigation Designers, Licensed Surveyors.
139 Hogan Street, TATURA Ph. 03 58241322
24B Sydney St, KILMORE Ph. 03 57822238
21 Nish Street, ECHUCA Ph. 03 548221699
Email: results@planright.com.au

Client: -
KINGLAKE WEST
KINGLAKE ROAD DESIGN
CIVIL WORKS
Town Entry Detail(2)
CAD: CR9756 Intersection Detail
PLOTTED: 17/09/2021

DRAWING No.
CR9756/16
SHEET 16 OF 22
RELEASE 05



TOWN ENTRY STANDARD TOWNSHIP SIGNAGE TEMPLATE

NAMES WILL BE UPDATED WHEN TIME ALLOWS

THIS PLAN PREPARED	Client: -
	KINGLAKE WEST KINGLAKE ROAD DESIGN CIVIL WORKS

Town Entry Detail(3)

CAD: CR9756 Intersection Detail

PLOTTED: 17/09/2021

DRAWING No.
CR9756/17
RELEASE 05

- LEGEND**

 - +77.80 --- EXISTING SURFACE LEVELS
 - - - - - EXISTING FEATURE
 - PROPOSED SURFACE DRAINAGE
 - PROPOSED DRAINAGE PIT
 - PROPOSED FOOTPATH
 - PROPOSED PAVEMENT
 - PROPOSED PARKING PAVEMENT
 - PROPOSED LANDSCAPE AREA (APPROVED NATIVE SPECIES)
 - PROPOSED LIGHT POLE
 - PROPOSED KERB AND CHANNEL
 - PROPOSED LAYBACK
 - PROPOSED DRAINAGE LAYBACK
 - PROPOSED CRUSH ROCK TIMBER EDGE AROUND TREE

SCALE:

HOR: 1:100 (A1)

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VER: N/A

DOCUMENT PURPOSE:

☐ PRELIMINARY ONLY	☐ CONSTRUCTION
☐ APPROVAL	☐ AS CONSTRUCTED
☐ FOR TENDER ONLY	☐ OTHER

B.M. No.:		B.M.El.:
DATUM: A.H.D.		
SURVEYED: Echuca	Planright	
DESIGNED: SH	Apr '21	
DRAWN: SH	Apr '21	
CHECKED: MMc	Apr '21	
ORIGINAL SHEET SIZE : A1		

IDEAS INTO ACTION
PLANRIGHT

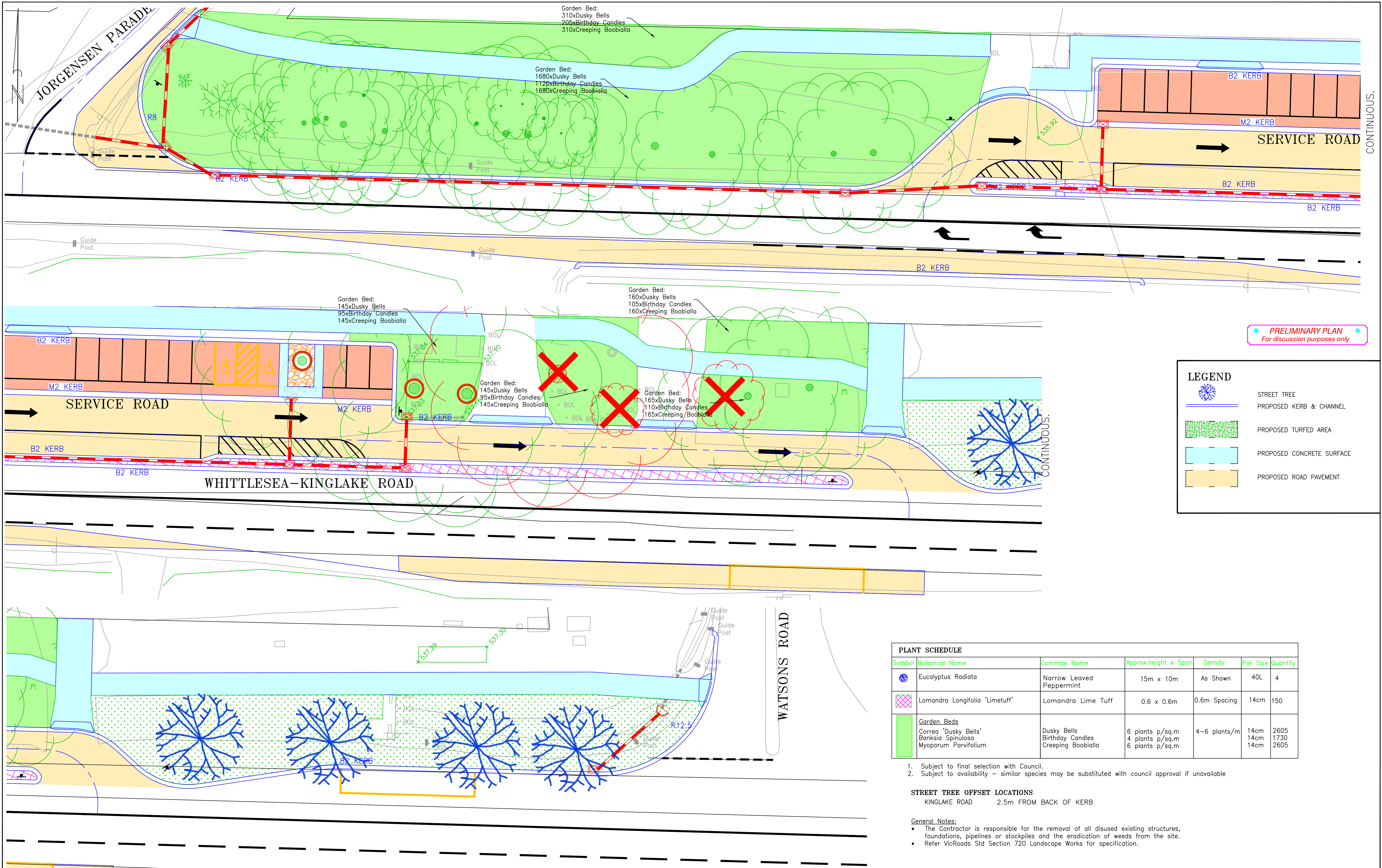
Civil Engineers, Irrigation Designers, Licensed Surveyors.

139	Hogan Street,	TATURA	Ph. 03	58241322
24B	Sydney St,	KILMORE	Ph. 03	57822338
21	Nish Street,	ECHUCA	Ph. 03	54821699

Email: results@planright.com.au

THIS PLAN PREPARED USING
AN ISO 9001 CERTIFIED
QUALITY ASSURED SYSTEM

Client: -



* **PRELIMINARY PLAN** *
For discussion purposes only

LEGEND

- STREET TREE
- PROPOSED KERB & CHANNEL
- PROPOSED TURFED AREA
- PROPOSED CONCRETE SURFACE
- PROPOSED ROAD PAVEMENT

PLANT SCHEDULE						
Symbol	Botanical Name	Common Name	Approx.height x Span	Density	Pot Size	Quantity
	Eucalyptus Radiata	Narrow Leaved Peppermint	15m x 10m	As Shown	40L	4
	Lomandra Longifolia 'Limetuff'	Lomandra Lime Tuff	0.6 x 0.6m	0.6m Spacing	14cm	150
	Garden Beds					
	Correa 'Dusky Bells'	Dusky Bells	6 plants p/sq.m	4-6 plants/m	14cm	2605
	Banksia Spinulosa	Birthday Candles	4 plants p/sq.m		14cm	1730
	Myoporum Parvifolium	Creeping Boobialla	6 plants p/sq.m		14cm	2605

1. Subject to final selection with Council.
2. Subject to availability – similar species may be substituted with council approval if unavailable

STREET TREE OFFSET LOCATIONS
KINGLAKE ROAD 2.5m FROM BACK OF KERB

- General Notes:
- The Contractor is responsible for the removal of all disused existing structures, foundations, pipelines or stockpiles and the eradication of weeds from the site.
 - Refer VicRoads Std Section 720 Landscape Works for specification.

DISCLAIMER

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WARNING

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RELEASE

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No.	DATE	DESCRIPTION

SCALE:

HOR: 1:200 (A1)

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VER: N/A

DOCUMENT PURPOSE:

☐ PRELIMINARY ONLY ☐ CONSTRUCTION

☐ APPROVAL ☐ AS CONSTRUCTED

☐ FOR TENDER ONLY ☐ OTHER

B.M. No.: B.M.El.:

DATUM: A.H.D.

SURVEYED: Echuca	Planright
DESIGNED: SH	Apr '21
DRAWN: SH	Apr '21
CHECKED: MMc	Apr '21

ORIGINAL SHEET SIZE : A1

IDEAS INTO ACTION

PLANRIGHT

Civil Engineers, Irrigation Designers, Licensed Surveyors.

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21 Nish Street, ECHUCA Ph. 03 54821699

Email: results@planright.com.au

THIS PLAN PREPARED USING ISO 9001 CERTIFIED QUALITY ASSURED SYSTEM

Client: -

KINGLAKE WEST

KINGLAKE ROAD DESIGN

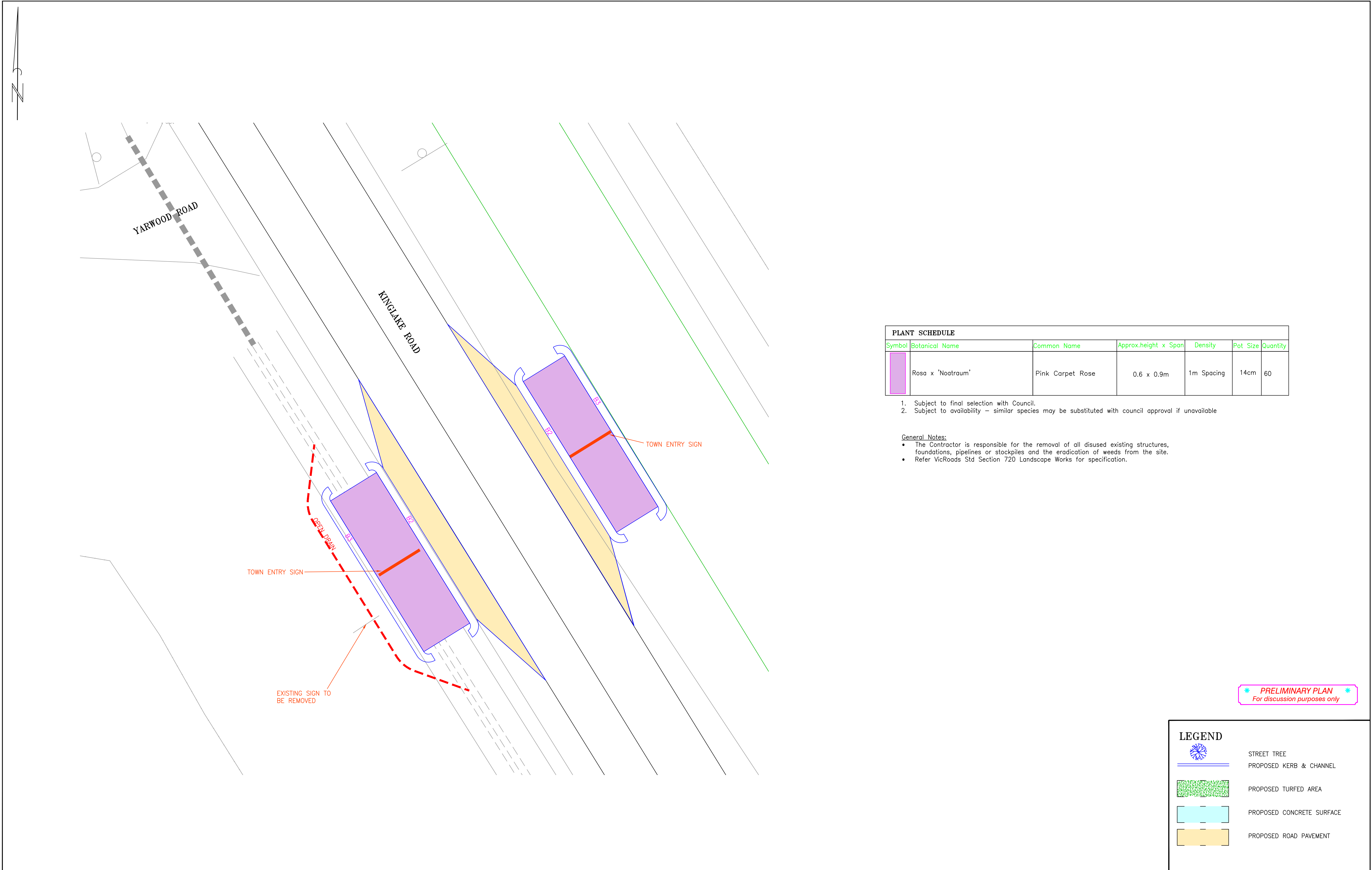
CIVIL WORKS

Landscape Plan(1)

CAD: CR9756 Kinglake Road Landscape Plan PLOTTED: 17/09/2021

DRAWING No. **CR9756/18**

SHEET 18 OF 22



PLANT SCHEDULE						
Symbol	Botanical Name	Common Name	Approx.height x Span	Density	Pot Size	Quantity
	Rosa x 'Nootraum'	Pink Carpet Rose	0.6 x 0.9m	1m Spacing	14cm	60

1. Subject to final selection with Council.
2. Subject to availability – similar species may be substituted with council approval if unavailable

- General Notes:
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❄️ PRELIMINARY PLAN ❄️
For discussion purposes only

LEGEND	
	STREET TREE
	PROPOSED KERB & CHANNEL
	PROPOSED TURFED AREA
	PROPOSED CONCRETE SURFACE
	PROPOSED ROAD PAVEMENT

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No.	DATE	DESCRIPTION

SCALE:

HOR: 1:100 (A1)

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VER: N/A

DOCUMENT PURPOSE:

☐ PRELIMINARY ONLY	☐ CONSTRUCTION
☐ APPROVAL	☐ AS CONSTRUCTED
☐ FOR TENDER ONLY	☐ OTHER

B.M. No.: B.M.El.:

DATUM: A.H.D.

SURVEYED: Echuca	Planright
DESIGNED: SH	Apr '21
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ORIGINAL SHEET SIZE : A1	

IDEAS INTO ACTION

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21 Nish Street, ECHUCA Ph. 03 54821699

Email:results@planright.com.au

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Client: –

KINGLAKE WEST

KINGLAKE ROAD DESIGN

CIVIL WORKS

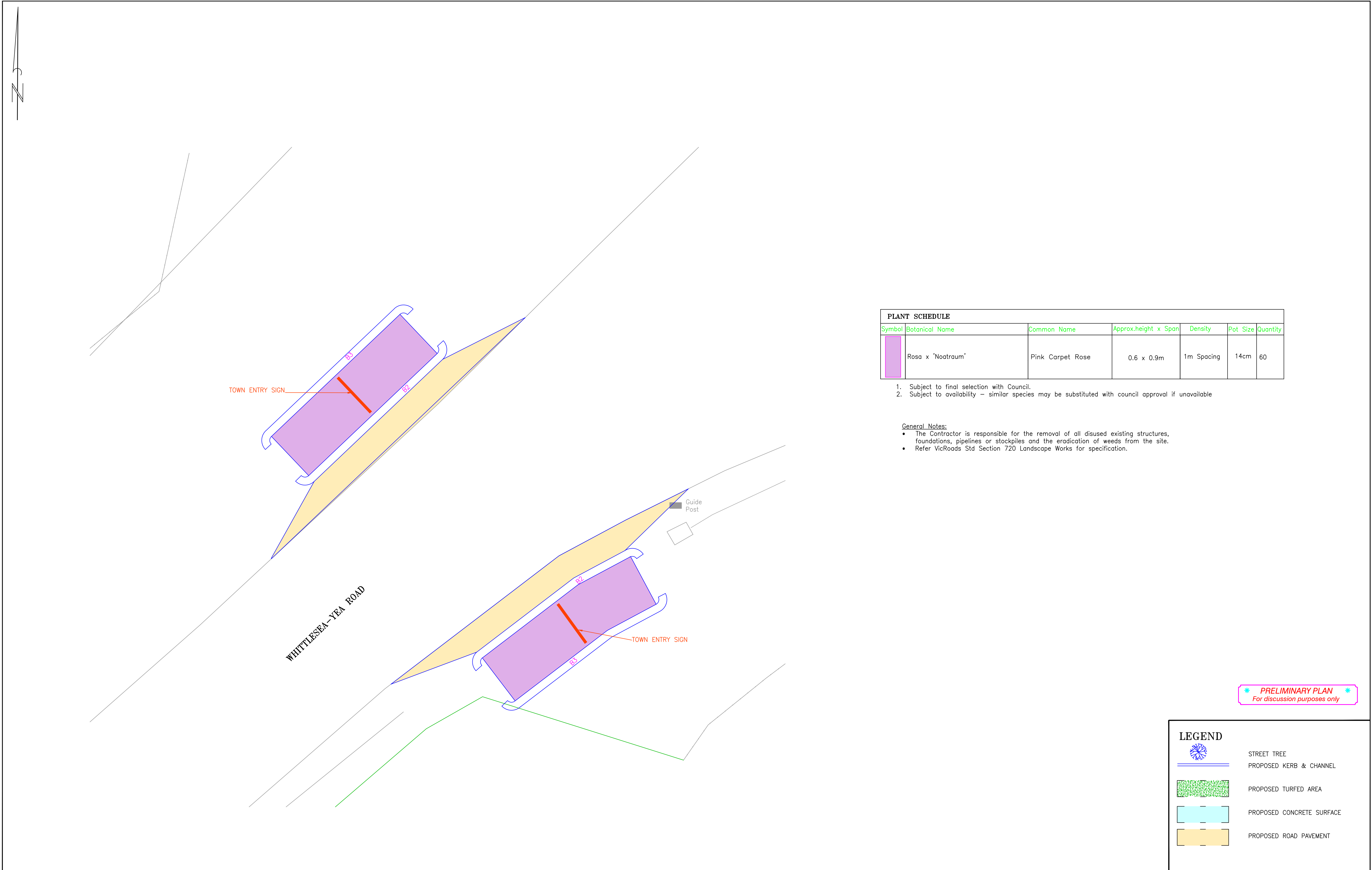
Landscape Plan(2)

CAD: CR9756 Kinglake Road Landscape Plan PLOTTED: 17/09/2021

DRAWING No. CR9756/19

RELEASE 05

SHEET 19 OF 22



PLANT SCHEDULE						
Symbol	Botanical Name	Common Name	Approx.height x Span	Density	Pot Size	Quantity
	Rosa x 'Noatraum'	Pink Carpet Rose	0.6 x 0.9m	1m Spacing	14cm	60

1. Subject to final selection with Council.
2. Subject to availability – similar species may be substituted with council approval if unavailable

- General Notes:
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 - Refer VicRoads Std Section 720 Landscape Works for specification.

* PRELIMINARY PLAN
For discussion purposes only

LEGEND	
	STREET TREE
	PROPOSED KERB & CHANNEL
	PROPOSED TURFED AREA
	PROPOSED CONCRETE SURFACE
	PROPOSED ROAD PAVEMENT

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SCALE:

HOR: 1:100 (A1)

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VER: N/A

DOCUMENT PURPOSE:

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B.M. No.: B.M.El.:

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ORIGINAL SHEET SIZE : A1	

IDEAS INTO ACTION

PLANRIGHT

Civil Engineers, Irrigation Designers, Licensed Surveyors.

139 Hogan Street, TATURA Ph. 03 58241322

24B Sydney St, KILMORE Ph. 03 57822238

21 Nish Street, ECHUCA Ph. 03 54821699

Email:results@planright.com.au

THIS PLAN PREPARED USING
PLANRIGHT'S QUALITY ASSURED SYSTEM

Client: –

KINGLAKE WEST

KINGLAKE ROAD DESIGN

CIVIL WORKS

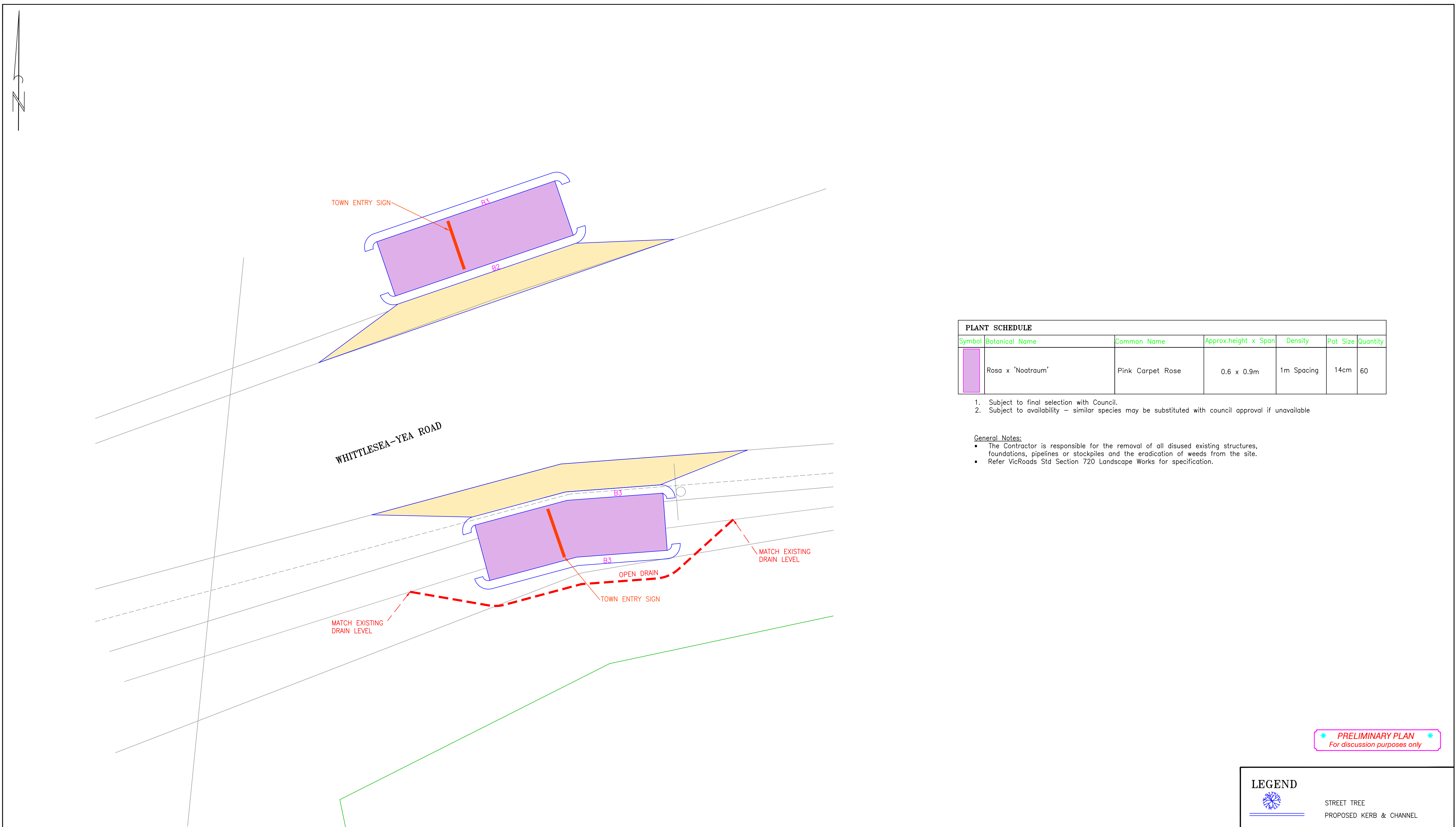
Landscape Plan(3)

CAD: CR9756 Kinglake Road Landscape Plan PLOTTED: 17/09/2021

DRAWING No.
CR9756/20

RELEASE 05

SHEET 20 OF 22



PLANT SCHEDULE						
Symbol	Botanical Name	Common Name	Approx.height x Span	Density	Pot Size	Quantity
	Rosa x 'Nootraum'	Pink Carpet Rose	0.6 x 0.9m	1m Spacing	14cm	60

1. Subject to final selection with Council.
2. Subject to availability – similar species may be substituted with council approval if unavailable

- General Notes:
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* PRELIMINARY PLAN
For discussion purposes only

LEGEND	
	STREET TREE
	PROPOSED KERB & CHANNEL
	PROPOSED TURFED AREA
	PROPOSED CONCRETE SURFACE
	PROPOSED ROAD PAVEMENT

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HOR: 1:100 (A1)

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VER: N/A

DOCUMENT PURPOSE:

☐ PRELIMINARY ONLY	☐ CONSTRUCTION
☐ APPROVAL	☐ AS CONSTRUCTED
☐ FOR TENDER ONLY	☐ OTHER

B.M. No.: B.M.El.:

DATUM: A.H.D.

SURVEYED: Echuca	Planright
DESIGNED: SH	Apr '21
DRAWN: SH	Apr '21
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ORIGINAL SHEET SIZE : A1	

IDEAS INTO ACTION

PLANRIGHT

Civil Engineers, Irrigation Designers, Licensed Surveyors.

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21 Nish Street, ECHUCA Ph. 03 54821699

Email: results@planright.com.au

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PLANRIGHT'S PROPRIETARY
QUALITY ASSURED SYSTEM

Client: –

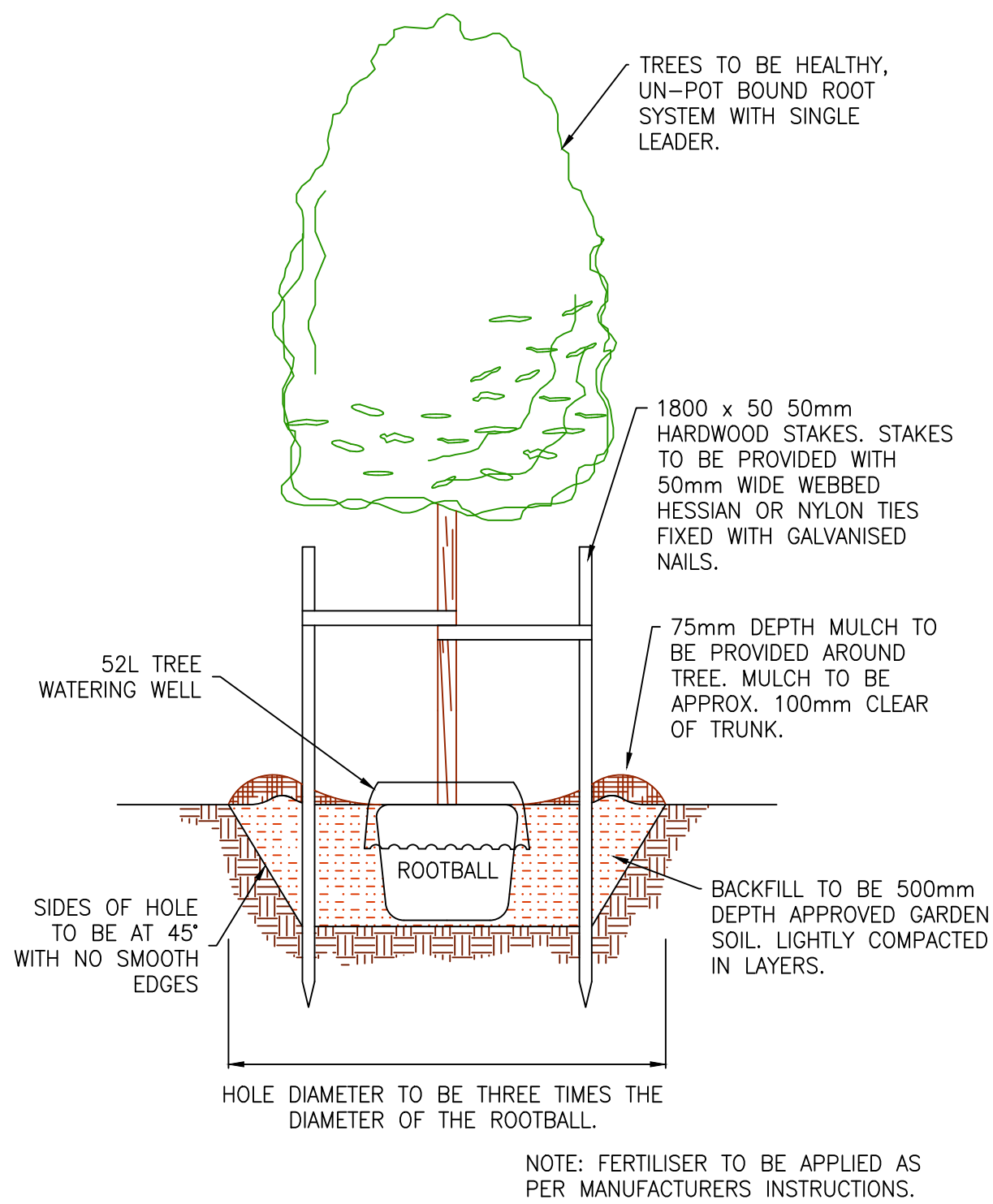
**KINGLAKE WEST
KINGLAKE ROAD DESIGN
CIVIL WORKS**

Landscape Plan(4)

CAD: CR9756 Kinglake Road Landscape Plan PLOTTED: 17/09/2021

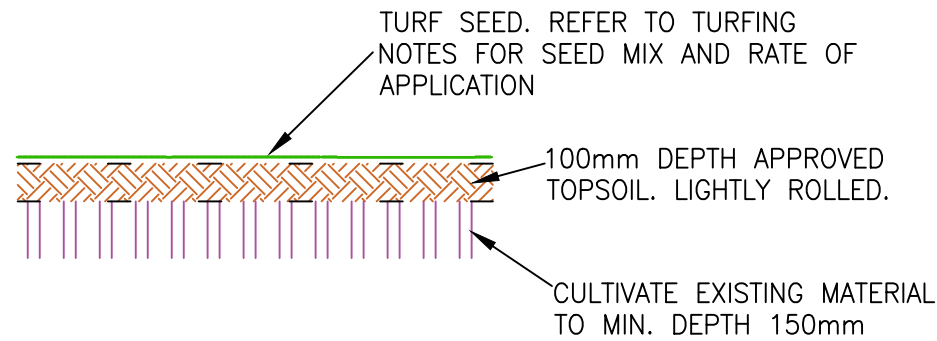
DRAWING No.
CR9756/21

RELEASE 05
SHEET 21 OF 22



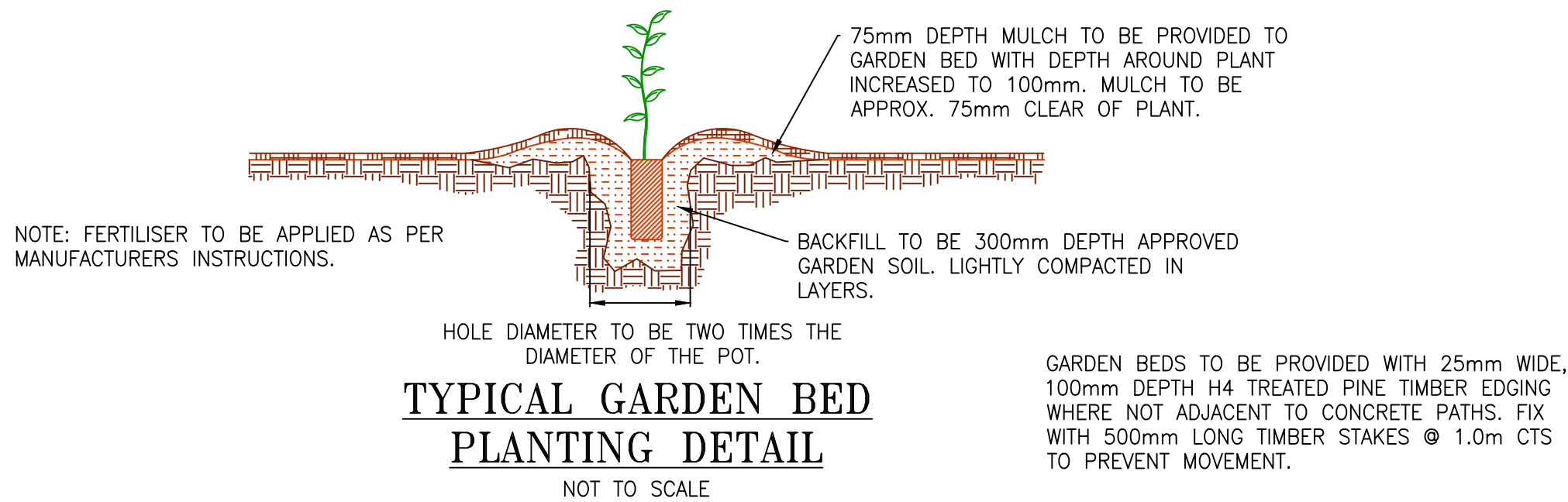
TREE PLANTING DETAIL

SCALE: N.T.S



HYDROSEEDING DETAIL

SCALE: N.T.S



TYPICAL GARDEN BED PLANTING DETAIL

NOT TO SCALE

LANDSCAPE WORKS – GENERAL

Scope of the works

- Street tree planting including but not limited to: tree pruning, litter removal and weed control. Turfing of nature strips.

Occupational health and safety

- To be carried out in accordance with Mitchell Shire Council regulations.

Initial Maintenance

- The Removal of all noxious weeds and environmental weeds from the site

Maintenance

- Maintenance period for the works will be for 24 months from the date of practical completion.
- Stakes and ties are to be removed at 12 months. If the tree is unstable in the ground after this time, it is to be replaced.
- Weeding as seasonally required to maintain at, or more than 90% weed free at all times.
- Spot spray within buffer of planting area using a non residual, contact herbicide (such as Glyphosate). Apply in strict accordance with manufacturers instructions.
- Boundary fence line spraying is permitted to a width of 200mm from fence lines, with residual herbicide and/or contact herbicide Symzine – Glyphosate to manufacturers specifications.
- Spray drift is not permitted to occur onto neighbouring properties. If there are windy conditions, and spray may drift onto Neighboring properties, spraying must not take place.
- The use of pre emergent herbicide eg. Ronstar to reduce weed seed is permitted.
- Repair damage caused by accident or vandalism in accordance with the above specifications.
- Destake trees once root establishment has occurred and trees are not socketing.
- Formative tree and shrub pruning once per annum. Refer to AS4373 – 2007.
- All street trees over 2.5m tall remove lower branches on trees to approx. 2.1m above ground level.
- Replace dead or damaged plant stock as losses occur.
- Clean footpath and road pavements during and following maintenance activities as necessary to maintain a clean and hazard free site. Directly following any maintenance works all pavements and kerbs shall be left debris and contaminate free.
- Treatment of plants as required for pest and disease.
- Surfaces of all turfed areas are to be maintained depression free and safe for pedestrian use.
- Any mechanical damage incurred, as a result of landscape maintenance to plants, shall be repaired.
- All litter and contaminants are to be collected and properly disposed of prior to mowing.
- Plant / tree watering (non-irrigated) over dryer periods to be carried out in frequencies and quantities to maintain plant vigour.
- Water trucks – heavy plant five ton or greater shall only cross pavements within the designated or agreed zones as approved by Council engineer.

TURFING NOTES

If existing topsoil on proposed turfed areas is inadequate quality or depth, 100mm depth topsoil to be provided to meet requirements of AS4419:2018 Soils for Landscaping and Garden Use. Subsoil to be cultivated to a depth of 150mm depth prior to placement of topsoil.

Seed

Seed mix is to be made up of the following blend
60% Perennial Ryegrass
40% Tall Fescue

Seed to be spread at a rate of 500 kg/ha

All turf seed must be obtained from an AUSGAP Certified grower as approved by the Responsible Authority. Turf seed must be delivered to site accompanied by the Certificate of Authenticity from the Supplier.

Cultivation and Surface Preparation

All areas to be hydro-mulched and/or hydro-seeded must be sprayed with the herbicide glyphosate in any of its registered formulations at the maximum rate specified by the Manufacturer, at least two (2) weeks prior to application. Physical removal of weeds is also acceptable.

All cultivation must be carried out across the direction of the slope with a fine tilt for an even depth of 200mm. During this cultivation, the

cultivated surface must be brought to a smooth even grade, free from mounds and hollows allowing the whole surface to drain freely in accordance with finished design surface contours and levels. Avoid removing additional topsoil and ensure that at least the specified depth of the best available topsoil remains on the surface upon completion of the surface preparation. Where the reinstatement of a nature strip is to be undertaken, the Contractor must place topsoil as required to achieve the desired levels to finish flush with the adjacent footpath or kerb. Firmly compact or roll topsoil behind the footpath and/or kerb and channel edging to the level of the edging. A prepared mix of lawn starter fertiliser with a N:P:K ratio of 10:14:9 must be spread evenly over the prepared seed bed at the rate as determined by the Soil Test Results. The fertiliser must be applied at the time of sowing or not more than 48 hours prior to seeding and raked lightly into the surface of the seed bed. Upon seeding, the area must be rolled in and watered.

Topsoil must be applied uniformly. Where slope of 5 to 1 and flatter exist, the topsoil area must be cultivated to a minimum depth of 50mm to provide a roughened surface. Hydro-mulching and/or hydro-seeding works must be carried out within two (2) days of completion of soil preparation works. The Contractor must spray dry soil surfaces with a fine spray of water prior to hydro-mulching and/or hydro-seeding. The seed mix slurry must be continuously agitated to ensure uniformity during application.

Sowing and Treatment

The seed must be sown on a calm day and applied in two (2) equal sowings in transverse directions. The surface must be ranked lightly to cover the seed. The seed bed must be watered as necessary to keep it moist until germination and placement of grassing on consolidation. The Contractor is responsible for ensuring that all seeded areas are maintained to achieve the best possible outcome.

Signposting

The Contractor must ensure that information signs are placed in areas where hydro-mulching, hydro-seeding and direct seeding has been applied. Information signs must be 1.5 x 600mm steel or plastic signs stating, "Planting Area – Please Keep Off". The Contractor must supply the signs, posts, brackets and fittings and install signage as shown on the endorsed plan(s). Flagging/fencing off of planting areas also recommended.

Maintenance Period on Hydro-mulched and Hydro-seeded Areas

The Contractor must be responsible for any portion of the binder that fails to adhere to a surface or that degrades to a degree where inadequate surface protection is provided. Where the binder has failed, the Contractor must replace any such portion of work at no additional cost. All areas hydro-mulched or hydro-seeded must be sprayed with herbicide glyphosate in any of its registered formulations at the maximum rate specified by the Manufacturer, for the treatment of weeds. Physical removal of weeds is also acceptable. The maintenance of the competed works is part of the 24-months Landscape Maintenance Period upon the Acceptance of Works by the Responsible Authority.

Herbicide

All herbicides to be used must be currently registered for the treatment of weeds by the National Registration Authority for Agricultural and Veterinary Chemicals (NRA). Herbicides must be used in accordance with the manufacturer's directions supplied with the product. Herbicides must be glyphosate based unless otherwise required by the relevant local government authority. Eradicate weeds using environmentally acceptable methods such as a non-residual glyphosate herbicide in any of its registered formulae at the manufacturers recommended rates. The Contractor must ensure that the correct herbicide is used for the intended weed management. The application of horticultural chemicals must only be carried out by operators holding an approved certificate from the relevant authority or an operator supervised by a certificate holder in addition, must be experienced and responsible in the application of horticultural chemicals in public places. All horticultural chemicals and fertilisers must be stored in accordance with manufacturers' recommendations and relevant Australian Standards. Signage nominating the chemical being used must be clearly displayed on the applicator's vehicle and where the chemical is to be used for extended periods at a given site, advisory signage must be displayed.

* PRELIMINARY PLAN *
For discussion purposes only

DISCLAIMER Notwithstanding any description contained in the Plans or Specification the Contractor shall be responsible for satisfying himself as to the nature and extent of the specified works and the physical and legal conditions under which the works will be carried out, including means of access, extent of clearing, nature of material to be excavated, type and size of mechanical plant required and any like matters effecting the construction of the works. INFORMATION CONTAINED ON THIS DRAWING IS THE COPYRIGHT OF PLANRIGHT AUSTRALASIA Pty. Ltd. COPYING OR USING THIS DRAWING IN WHOLE OR PART WITHOUT PERMISSION INFRINGES COPYRIGHT.		WARNING BEWARE OF UNDERGROUND SERVICES The location of underground services, where shown, are approximate only. All authorities must be contacted prior to construction to determine the exact location of all underground services.		RELEASE H G F E D C B A No. DATE DESCRIPTION		SCALE: DOCUMENT PURPOSE: ☐ PRELIMINARY ONLY ☐ CONSTRUCTION ☐ APPROVAL ☐ AS CONSTRUCTED ☐ FOR TENDER ONLY ☐ OTHER		B.M. No.: B.M.El.: DATUM: A.H.D. SURVEYED: Echuca Planright DESIGNED: SH Apr '21 DRAWN: SH Apr '21 CHECKED: MMc Apr '21 ORIGINAL SHEET SIZE : A1		IDEAS INTO ACTION PLANRIGHT Civil Engineers, Irrigation Designers, Licensed Surveyors. 139 Hogan Street, TATURA Ph. 03 58241322 24B Sydney St, KILMORE Ph. 03 57822238 21 Nish Street, ECHUCA Ph. 03 54821699 Email:results@planright.com.au THIS PLAN PREPARED USING AN ISO 9001 CERTIFIED QUALITY ASSURED SYSTEM		Client: – KINGLAKE WEST KINGLAKE ROAD DESIGN CIVIL WORKS Landscape Plan(5) CAD: CR9756 Kinglake Road Landscape Plan PLOTTED: 17/09/2021		SHEET 22 OF 22 CR9756/22 RELEASE 05 DRAWING No.	
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