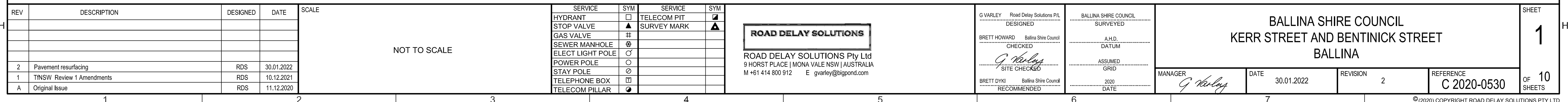
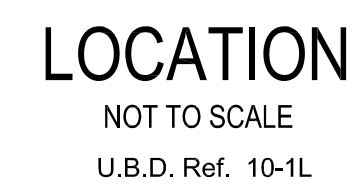
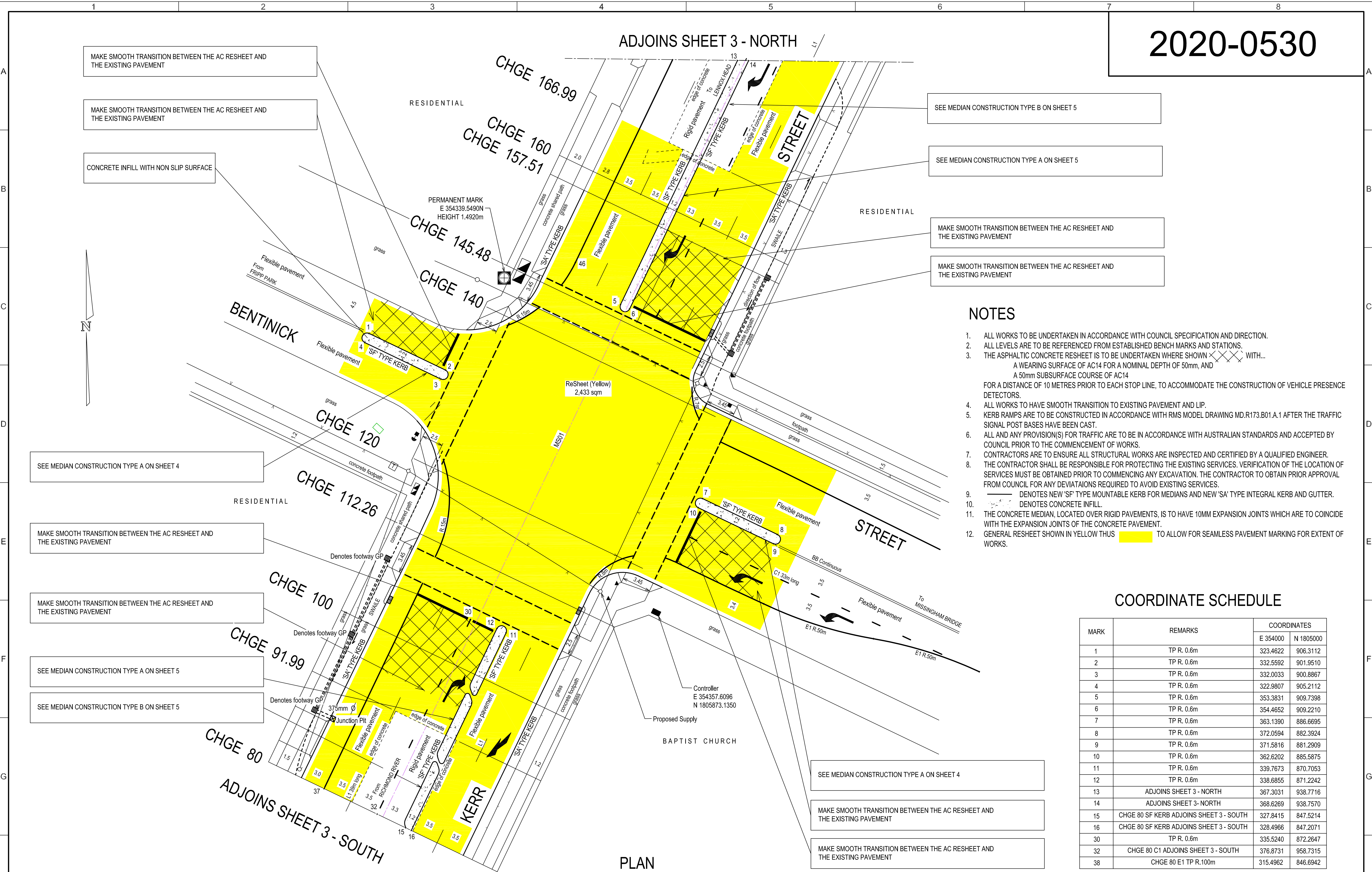


PROPOSED CIVIL CONSTRUCTION WORKS INTERSECTION OF KERR STREET AND BENTINICK STREET BALLINA





NOTES

- ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH COUNCIL SPECIFICATION AND DIRECTION.
- ALL LEVELS ARE TO BE REFERENCED FROM ESTABLISHED BENCH MARKS AND STATIONS.
- THE ASPHALTIC CONCRETE RESHEET IS TO BE UNDERTAKEN WHERE SHOWN WITH...
A WEARING SURFACE OF AC14 FOR A NOMINAL DEPTH OF 50mm, AND
A 50mm SUBSURFACE COURSE OF AC14
FOR A DISTANCE OF 10 METRES PRIOR TO EACH STOP LINE, TO ACCOMMODATE THE CONSTRUCTION OF VEHICLE PRESENCE DETECTORS.
- ALL WORKS TO HAVE SMOOTH TRANSITION TO EXISTING PAVEMENT AND LIP.
- KERB RAMPS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH RMS MODEL DRAWING MD.R173.B01.A.1 AFTER THE TRAFFIC SIGNAL POST BASES HAVE BEEN CAST.
- ALL AND ANY PROVISION(S) FOR TRAFFIC ARE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND ACCEPTED BY COUNCIL PRIOR TO THE COMMENCEMENT OF WORKS.
- CONTRACTORS ARE TO ENSURE ALL STRUCTURAL WORKS ARE INSPECTED AND CERTIFIED BY A QUALIFIED ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING SERVICES. VERIFICATION OF THE LOCATION OF SERVICES MUST BE OBTAINED PRIOR TO COMMENCING ANY EXCAVATION. THE CONTRACTOR TO OBTAIN PRIOR APPROVAL FROM COUNCIL FOR ANY DEVIATIONS REQUIRED TO AVOID EXISTING SERVICES.
- DENOTES NEW 'SF' TYPE MOUNTABLE KERB FOR MEDIANS AND NEW 'SA' TYPE INTEGRAL KERB AND GUTTER.
- DENOTES CONCRETE INFILL.
- THE CONCRETE MEDIAN, LOCATED OVER RIGID PAVEMENTS, IS TO HAVE 10MM EXPANSION JOINTS WHICH ARE TO COINCIDE WITH THE EXPANSION JOINTS OF THE CONCRETE PAVEMENT.
- GENERAL RESHEET SHOWN IN YELLOW THUS TO ALLOW FOR SEAMLESS PAVEMENT MARKING FOR EXTENT OF WORKS.

COORDINATE SCHEDULE

MARK	REMARKS	COORDINATES	
		E 354000	N 1805000
1	TP R. 0.6m	323.4622	906.3112
2	TP R. 0.6m	332.5592	901.9510
3	TP R. 0.6m	332.0033	900.8867
4	TP R. 0.6m	322.9807	905.2112
5	TP R. 0.6m	353.3831	909.7398
6	TP R. 0.6m	354.4652	909.2210
7	TP R. 0.6m	363.1390	886.6695
8	TP R. 0.6m	372.0594	882.3924
9	TP R. 0.6m	371.5816	881.2909
10	TP R. 0.6m	362.6202	885.5875
11	TP R. 0.6m	339.7673	870.7053
12	TP R. 0.6m	338.6855	871.2242
13	ADJOINS SHEET 3 - NORTH	367.3031	938.7716
14	ADJOINS SHEET 3 - NORTH	368.6269	938.7570
15	CHGE 80 SF KERB ADJOINS SHEET 3 - SOUTH	327.8415	847.5214
16	CHGE 80 SF KERB ADJOINS SHEET 3 - SOUTH	328.4966	847.2071
30	TP R. 0.6m	335.5240	872.2647
32	CHGE 80 C1 ADJOINS SHEET 3 - SOUTH	376.8731	958.7315
38	CHGE 80 E1 TP R.100m	315.4962	846.6942

REV	DESCRIPTION	DESIGNED	DATE
2	Pavement resurfacing and introduction of low level footway/drainage	RDS	30.01.2022
1	Existing Tie-ins at the northern and southern end of Kerr Street modified	RDS	10.12.2021
A	Original Issue	RDS	11.12.2020

SCALE

0 1 2 3 4 5 10 15 20

1:200 when printed as A1

SERVICE	SYM	SERVICE	SYM
HYDRANT	□	TELECOM PIT	■
STOP VALVE	▲	SURVEY MARK	▲
GAS VALVE	■		
SEWER MANHOLE	⊗		
ELECT LIGHT POLE	○		
POWER POLE	○		
STAY POLE	○		
TELEPHONE BOX	□		
TELECOM PILLAR	●		

ROAD DELAY SOLUTIONS

ROAD DELAY SOLUTIONS Pty Ltd
9 HORST PLACE | MONA VALE NSW | AUSTRALIA
M +61 414 800 912 E gvarley@bigpond.com

G VARLEY Road Delay Solutions P/L
DESIGNED

BRETT HOWARD Ballina Shire Council
CHECKED

BRETT DYKI Ballina Shire Council
RECOMMENDED

BALLINA SHIRE COUNCIL
SURVEYED

A.H.D.
DATUM

ASSUMED
GRID

2020
DATE

BALLINA SHIRE COUNCIL
KERR STREET AND BENTINICK STREET
BALLINA

MANAGER *G Varley*

DATE 30.01.2022

REVISION 2

REFERENCE C 2020-0530

SHEET 2

OF SHEETS 10

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2020-0530

TYPICAL BREAK IN MEDIAN FOR DRAINAGE SHEET 5

SEE MEDIAN CONSTRUCTION TYPE A ON SHEET 5

COORDINATE SCHEDULE

MARK	REMARKS	COORDINATES	
		E 354000	N 1805000
13	ADJOINS SHEET NORTH	367.3031	938.7716
14	ADJOINS SHEET NORTH	368.6269	938.7570
15	CHGE 80 SFERB ADJOINS SHEET 3 - SOUTH	327.8415	847.5214
16	CHGE 80 SF KERB ADJOINS SHEET 3 - SOUTH	328.4966	847.2071
17	TP R. 0.6m	380.1329	964.8377
18	TP R. 0.6m	381.2147	964.3182
19	TP R. 0.6m	377.8658	957.3323
20	TP R. 0.6m	382.3640	963.9512
21	TP R. 0.6m	390.8320	977.4359
22	TP R. 0.6m	319.0243	830.2330
23	TP R. 0.6m	320.1062	829.7140
24	END OF PAINT - TP R. 70m	318.6954	829.7424
25	END OF E5 PAINT	319.8119	829.1079
26	CTP E5 R. 70m	312.2595	819.9251
27	E5 TP R. 70m	304.2194	806.9954
28	CHGE 00 - TIE TO EXIST - END OF E5 PAINT	292.5883	781.2992
29	TP R. 70m	316.5407	822.9324
31	CHANGE OF ANGLE	295.8677	783.7570
33	E5 TIE TO EXISTING	319.0243	830.2330
34	E1 TP R. 100m	292.2517	790.2689
35	END OF PAINT - TP R. 70m	293.7418	793.7403
36	E1 TP R.100	313.0411	841.1505
37	CHGE 80 E1 ADJOINS SHEET 3 - SOUTH	318.1277	852.1805
38	CHGE 80 E1 TP R.100m	315.4962	846.6942
43	E5 - END OF WORK	421.2750	6040.9281
44	TIE TO EXIST - END OF E5 PAINT	389.7015	977.6954
45	E1 TP R.14m	385.0481	991.9646
46	E1 TP R.15m	348.0164	914.7381

NOTES

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PLAN

REV	DESCRIPTION	DESIGNED	DATE
2	Pavement resurfacing and introduction of low level footway/drainage	RDS	30.01.2022
1	Existing Tie-ins at the northern and southern end of Kerr Street modified	RDS	10.12.2021
A	Original Issue	RDS	11.12.2020

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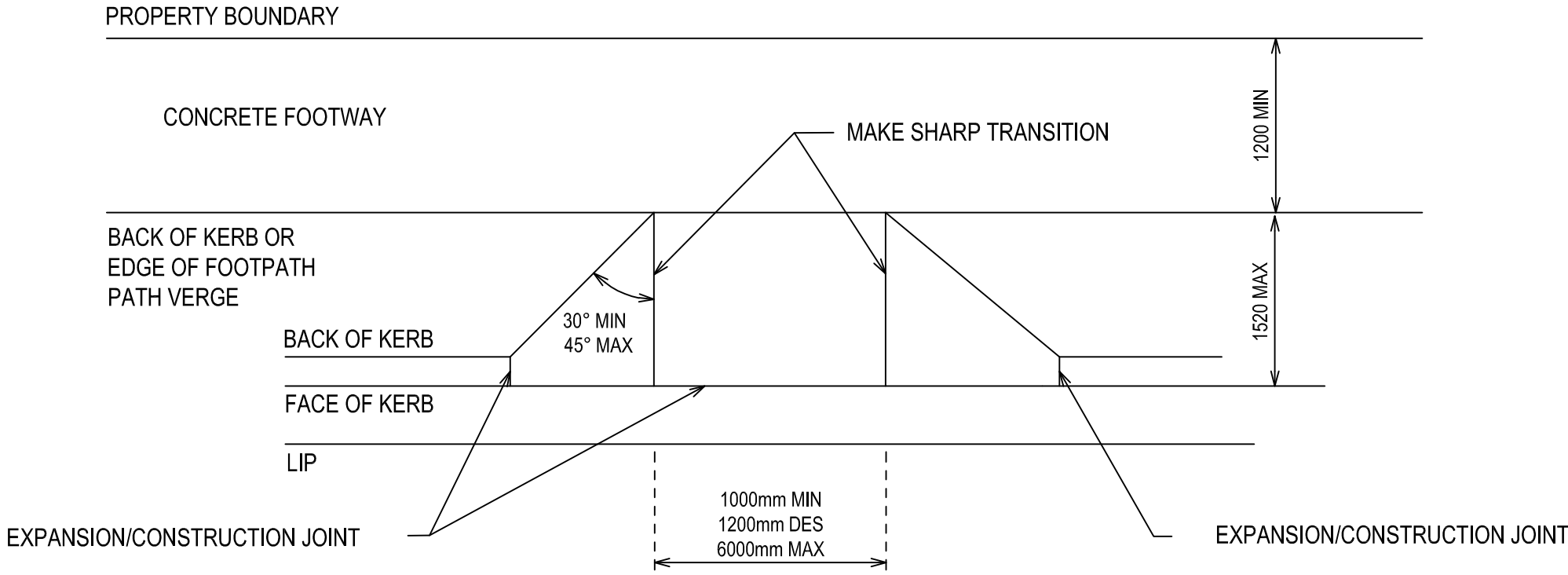
ROAD DELAY SOLUTIONS
ROAD DELAY SOLUTIONS Pty Ltd 9 HORST PLACE MONA VALE NSW AUSTRALIA M +61 414 800 912 E gvarley@bigpond.com

G VARLEY Road Delay Solutions P/L DESIGNED	BRETT HOWARD Ballina Shire Council CHECKED	BRETT DYKI Ballina Shire Council RECOMMENDED
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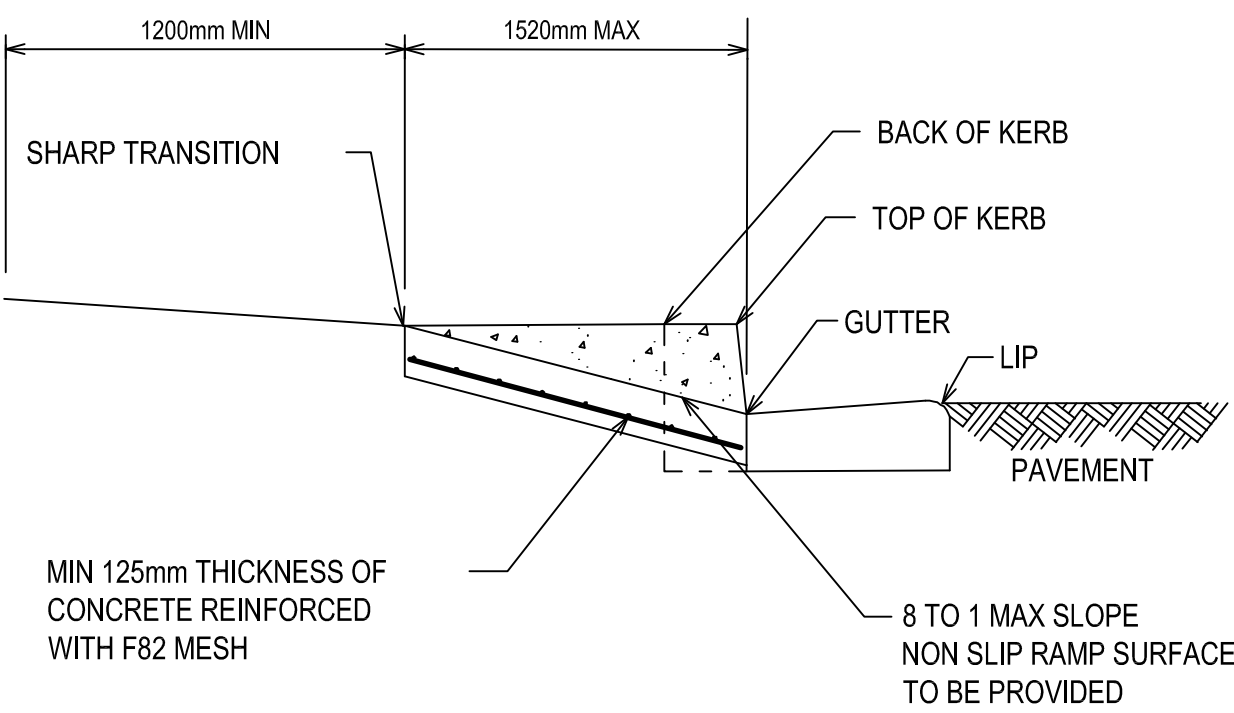
BALLINA SHIRE COUNCIL SURVEYED	A.H.D. DATUM	ASSUMED GRID	2020 DATE
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BALLINA SHIRE COUNCIL KERR STREET AND BENTINICK STREET BALLINA			
MANAGER G Varley	DATE 30.01.2022	REVISION 2	REFERENCE C 2020-0530

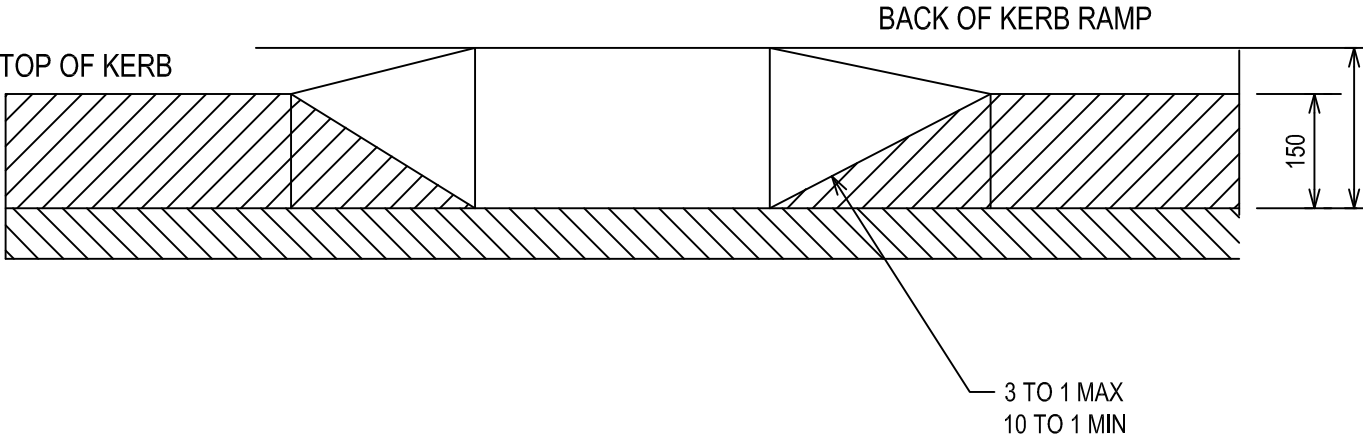
SHEET 3	OF 10 SHEETS
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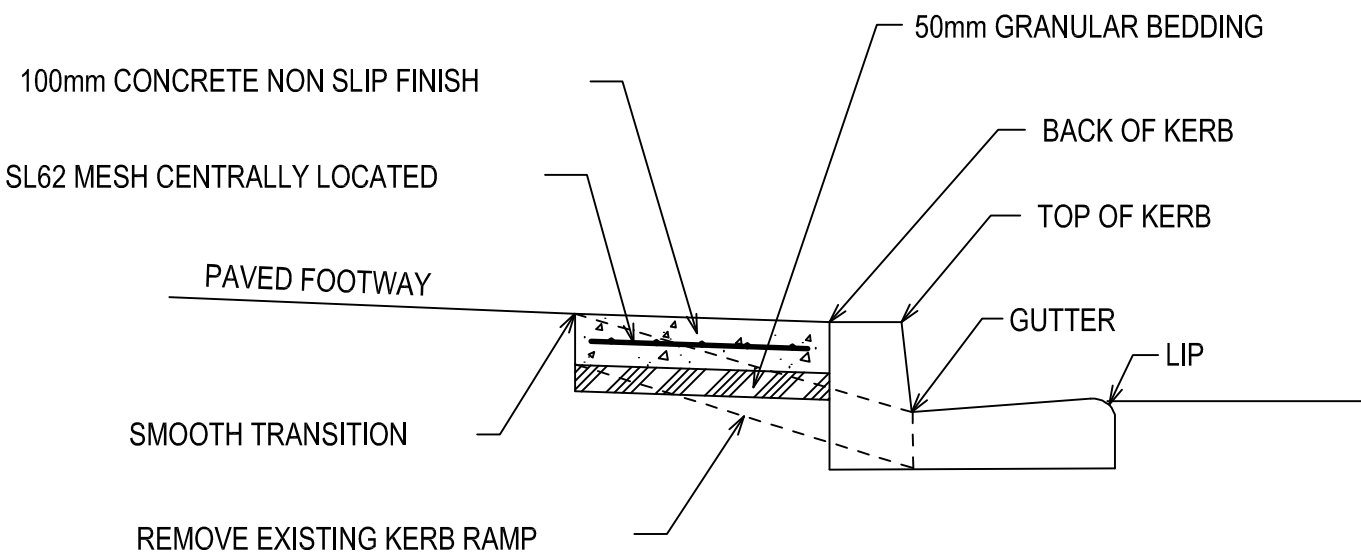
TYP. PLAN OF KERB RAMP
NOT TO SCALE



TYP. CROSS SECTION OF NEW KERB RAMP
NOT TO SCALE



TYP. SECTION OF KERB RAMP
NOT TO SCALE



TYP. CROSS SECTION OF KERB RAMP REMOVAL
AND CONCRETE FOOTWAY REHABILITATION
NOT TO SCALE

REV	DESCRIPTION	DESIGNED	DATE	SCALE	SERVICE	SYM	SERVICE	SYM		G VARLEY	Road Delay Solutions P/L	BALLINA SHIRE COUNCIL	BALLINA SHIRE COUNCIL KERR STREET AND BENTINICK STREET BALLINA				SHEET								
				NOT TO SCALE UNLESS SHOWN OTHERWISE	HYDRANT	□	TELECOM PIT	☑			DESIGNED	SURVEYED			4										
					STOP VALVE	▲	SURVEY MARK	▲																	
					GAS VALVE	#																			
					SEWER MANHOLE	⊗																			
					ELECT LIGHT POLE	○																			
					POWER POLE	○																			
					STAY POLE	○																			
					TELEPHONE BOX	☐																			
					TELECOM PILLAR	●																			
2	Pavement resurfacing and introduction of low level footway/drainage	RDS	30.01.2022																						
1	TINSW Review 1 Amendments	RDS	10.12.2021																						
A	Original Issue	RDS	11.12.2020																						
										ROAD DELAY SOLUTIONS ROAD DELAY SOLUTIONS Pty Ltd 9 HORST PLACE MONA VALE NSW AUSTRALIA M +61 414 800 912 E gvarley@bigpond.com		BRETT HOWARD Ballina Shire Council CHECKED <i>G Varley</i> SITE CHECKED		A.H.D. DATUM ASSUMED GRID		MANAGER <i>G Varley</i>		DATE 30.01.2022		REVISION 2		REFERENCE C 2020/0530		10 OF SHEETS	
										BRETT DYKI Ballina Shire Council RECOMMENDED		2020 DATE													

NOT TO SCALE UNLESS SHOWN OTHERWISE

ROAD DELAY SOLUTIONS

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9 HORST PLACE | MONA VALE NSW | AUSTRALIA
M +61 414 800 912 E gvarley@bigpond.com

G VARLEY Road Delay Solutions P/L

DESIGNED

BRETT HOWARD Ballina Shire Council

CHECKED

SITE CHECKED

BRETT DYKI Ballina Shire Council

RECOMMENDED

BALLINA SHIRE COUNCIL

SURVEYED

A.H.D.

DATUM

ASSUMED

GRID

2020

DATE

BALLINA SHIRE COUNCIL
KERR STREET AND BENTINICK STREET
BALLINA

MANAGER

G Varley

DATE

30.01.2022

REVISION

2

REFERENCE

C 2020/0530

SHEET

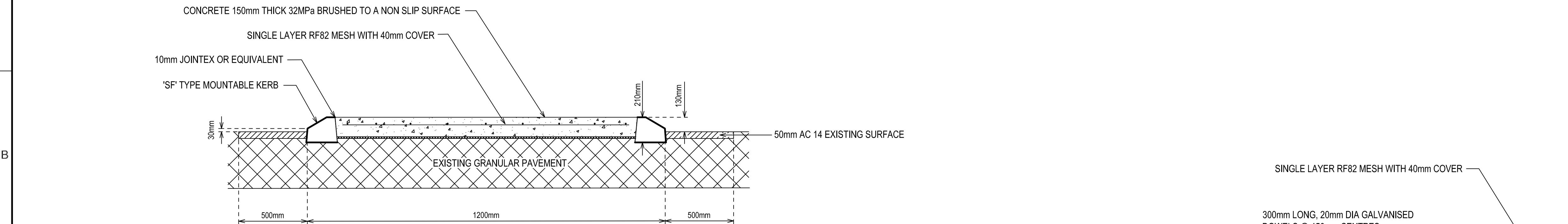
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OF

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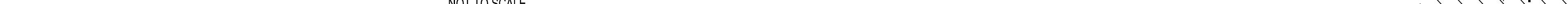
SHEETS

2020-0530

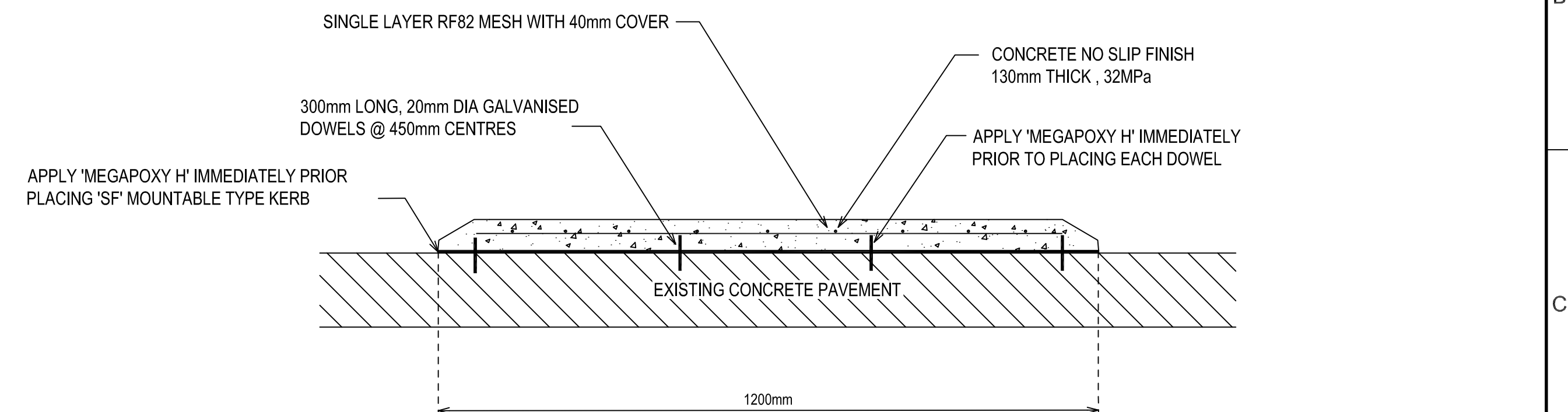


TYPE A - MEDIAN ON FLEXIBLE PAVEMENT

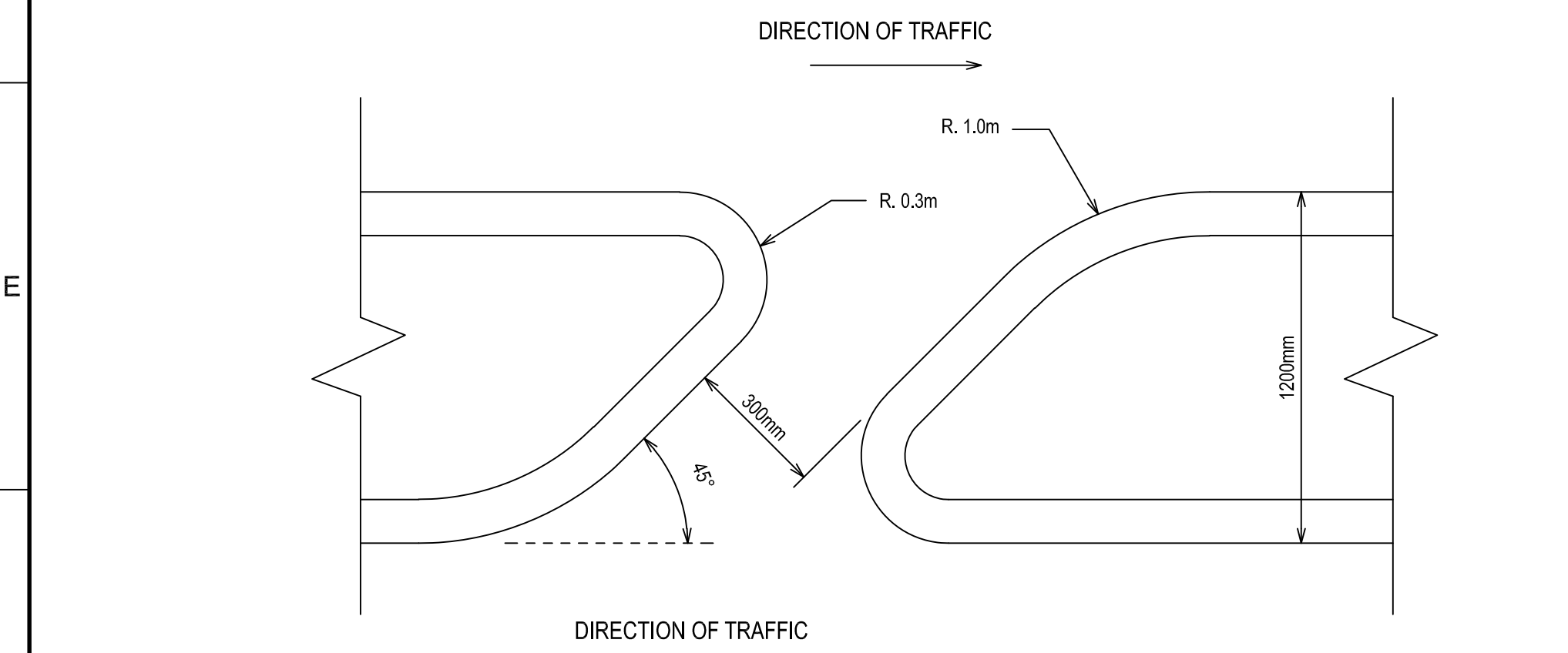
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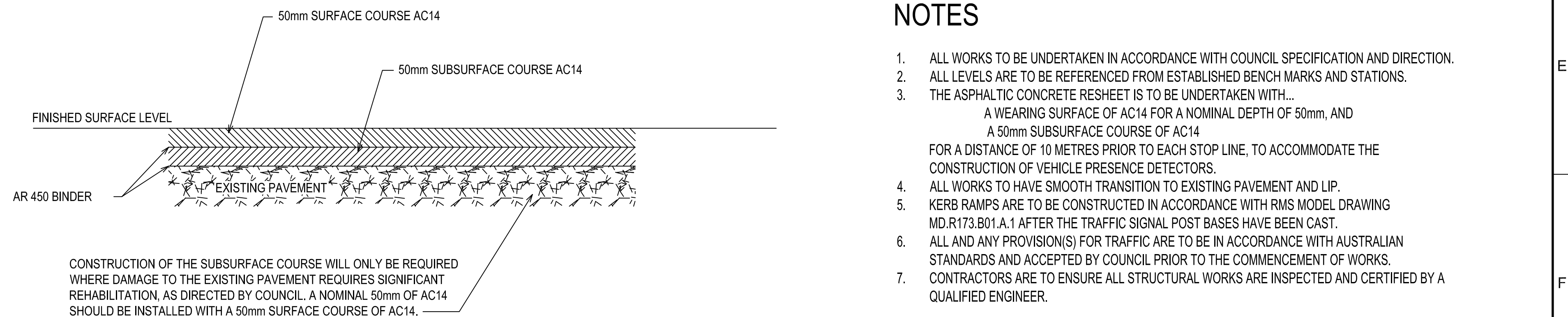
EXISTING CONCRETE CURB



TYPE B - MEDIAN ON RIGID PAVEMENT



TYP BREAK IN MEDIAN FOR DRAINAGE
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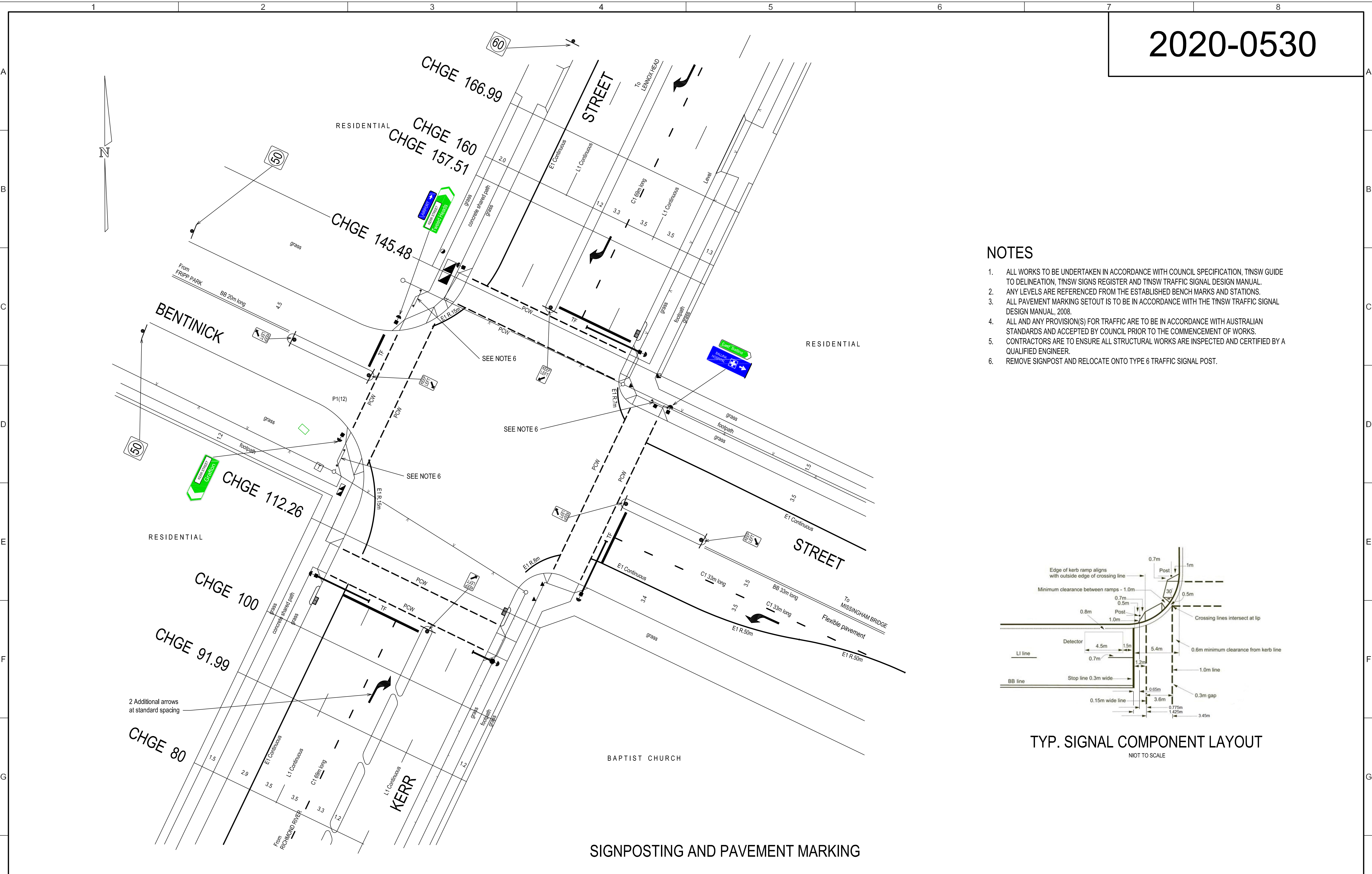
TYP FLEXIBLE PAVEMENT RESHEET
AND REHABILITATION FOR DETECTORS

NOT TO SCALE

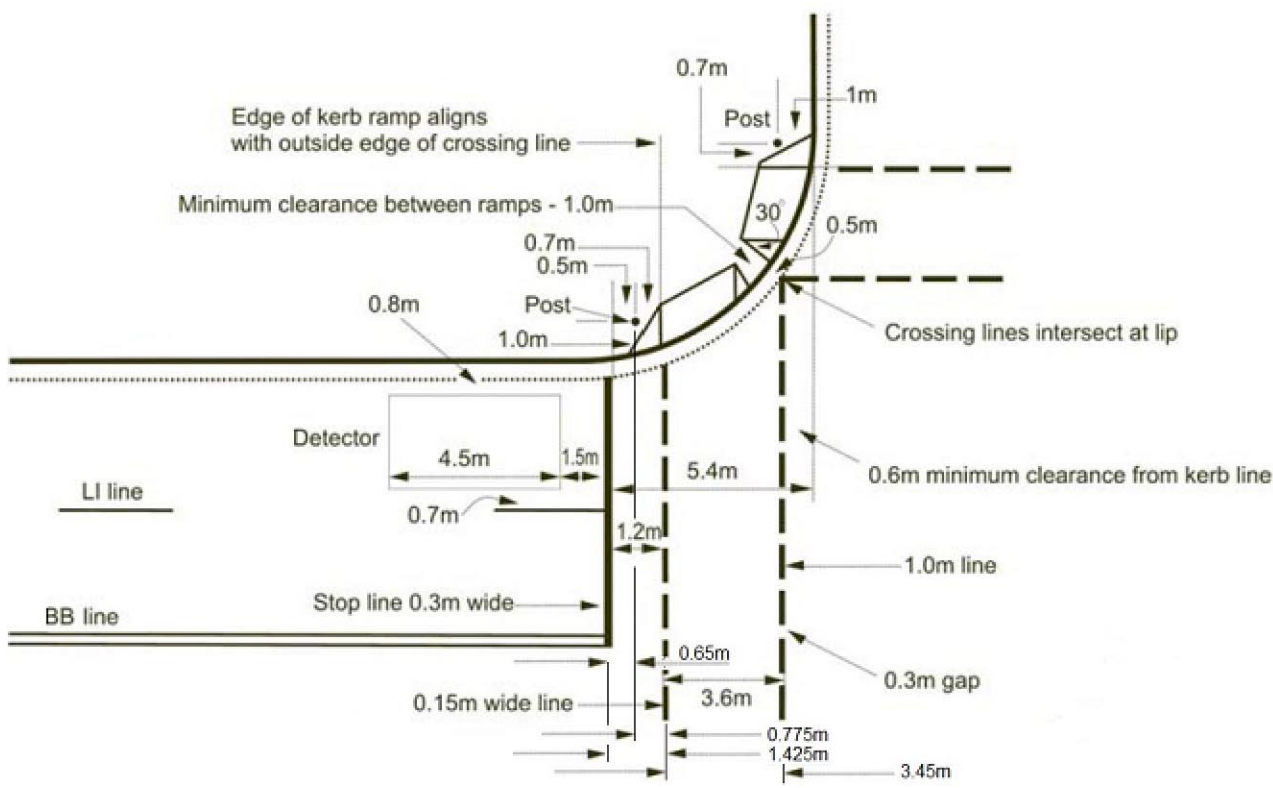
NOTES

- | | | |
|----|--|---|
| 1. | ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH COUNCIL SPECIFICATION AND DIRECTION. | E |
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QUALIFIED ENGINEER. | F |

REV	DESCRIPTION	DESIGNED	DATE	SCALE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</
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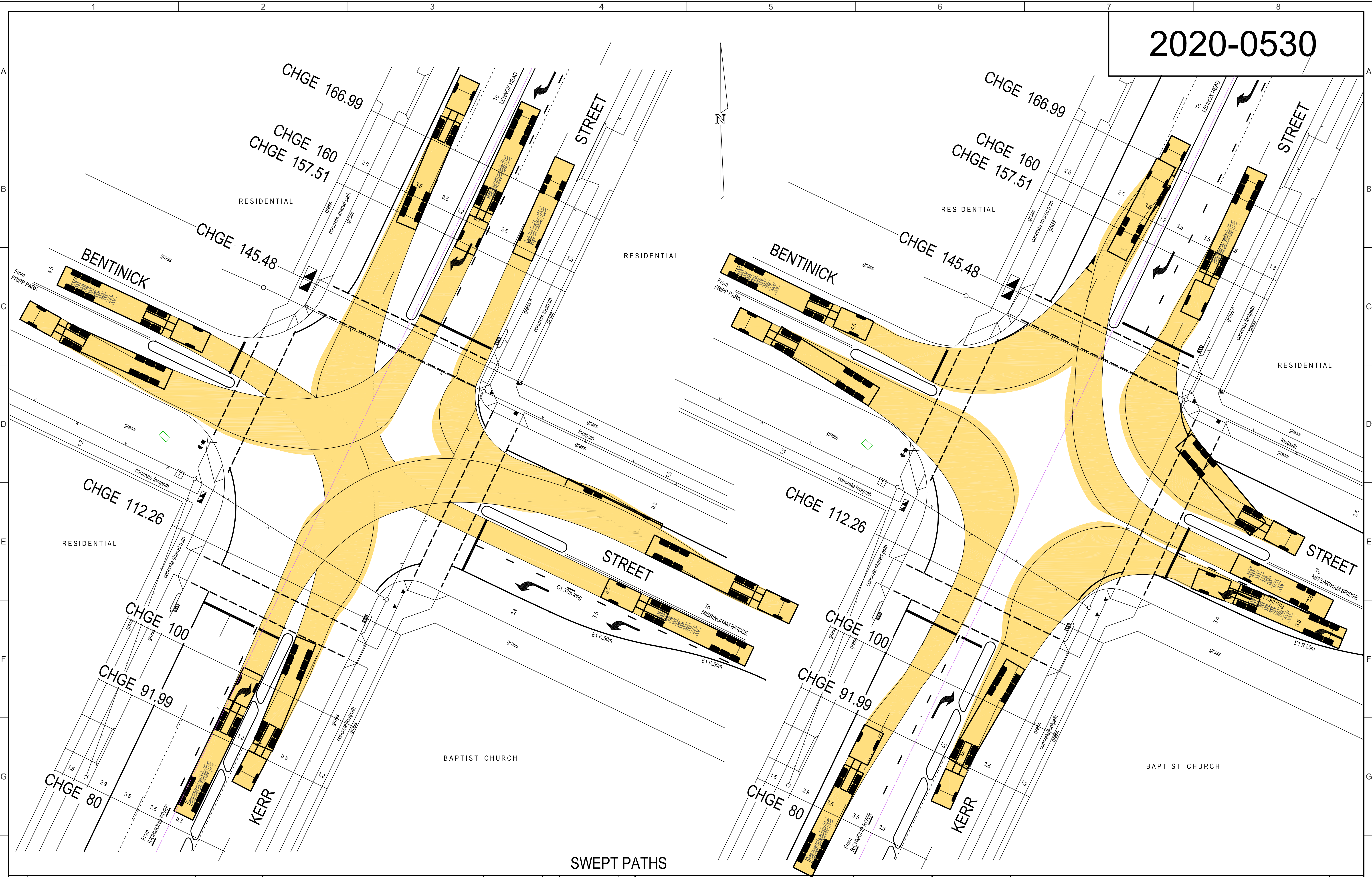


- NOTES
1. ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH COUNCIL SPECIFICATION, TNSW GUIDE TO DELINEATION, TNSW SIGNS REGISTER AND TNSW TRAFFIC SIGNAL DESIGN MANUAL.
 2. ANY LEVELS ARE REFERENCED FROM THE ESTABLISHED BENCH MARKS AND STATIONS.
 3. ALL PAVEMENT MARKING SETOUT IS TO BE IN ACCORDANCE WITH THE TNSW TRAFFIC SIGNAL DESIGN MANUAL, 2008.
 4. ALL AND ANY PROVISION(S) FOR TRAFFIC ARE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND ACCEPTED BY COUNCIL PRIOR TO THE COMMENCEMENT OF WORKS.
 5. CONTRACTORS ARE TO ENSURE ALL STRUCTURAL WORKS ARE INSPECTED AND CERTIFIED BY A QUALIFIED ENGINEER.
 6. REMOVE SIGNPOST AND RELOCATE ONTO TYPE 6 TRAFFIC SIGNAL POST.



TYP. SIGNAL COMPONENT LAYOUT
NOT TO SCALE

REV	DESCRIPTION	DESIGNED	DATE	SCALE	SERVICE	SYM	SERVICE	SYM	ROAD DELAY SOLUTIONS	G VARLEY	BALLINA SHIRE COUNCIL	BALLINA SHIRE COUNCIL	MANAGER	DATE	REVISION	REFERENCE	SHEET
2	Pavement resurfacing and introduction of low level footway/drainage	RDS	30.01.2022	NOT TO SCALE	HYDRANT	□	TELECOM PIT	■	ROAD DELAY SOLUTIONS Pty Ltd 9 HORST PLACE MONA VALE NSW AUSTRALIA M +61 414 800 912 E gvarley@bigpond.com	BRETT HOWARD	BALLINA SHIRE COUNCIL SURVEYED	A.H.D. DATUM	G Varley	30.01.2022	2	C 2020/0530	6
1	Tie-in to existing in Betinick Street east modified	RDS	10.12.2021		GAS VALVE	▲	SURVEY MARK	▲				ASSUMED GRID					10
A	Original Issue	RDS	11.12.2020		SEWER MANHOLE	⊗						2020 DATE					

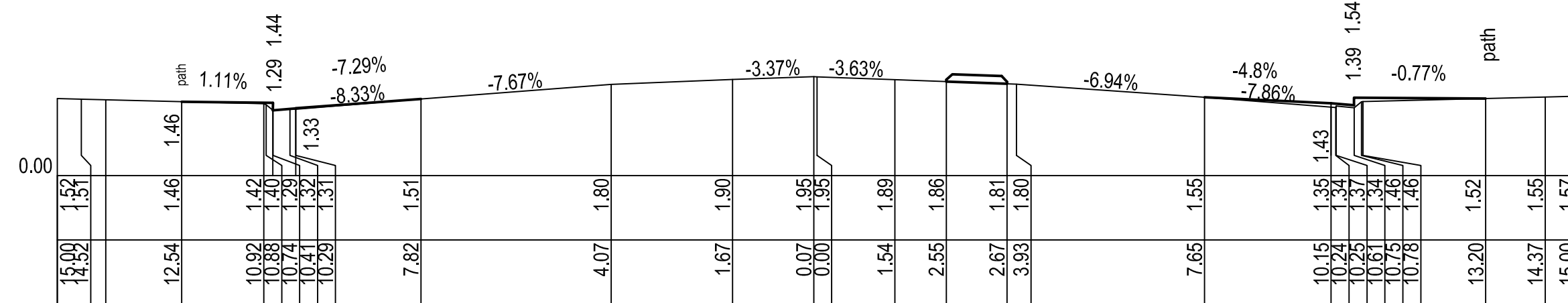


SWEPT PATHS

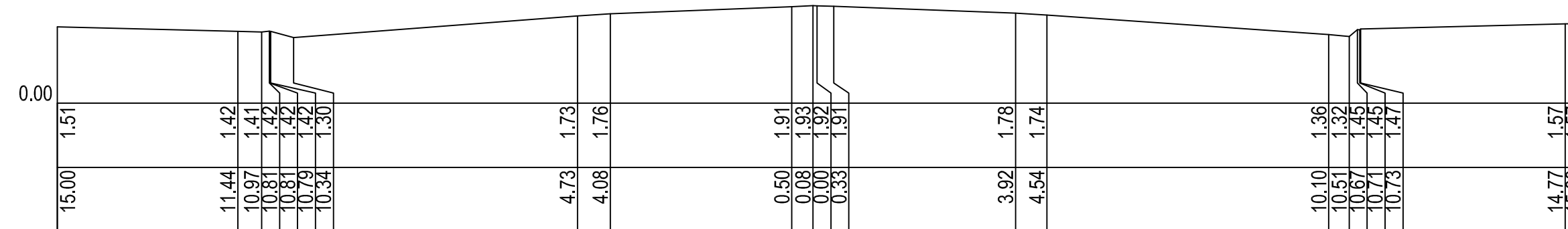
REV	DESCRIPTION	DESIGNED	DATE	SCALE	SERVICE	SYM	SERVICE	SYM	ROAD DELAY SOLUTIONS ROAD DELAY SOLUTIONS Pty Ltd 9 HORST PLACE MONA VALE NSW AUSTRALIA M +61 414 800 912 E gvarley@bigpond.com	G VARLEY Road Delay Solutions P/L DESIGNED BRETT HOWARD Ballina Shire Council CHECKED G Varley SITE CHECKED BRETT DYKI Ballina Shire Council RECOMMENDED	BALLINA SHIRE COUNCIL SURVEYED A.H.D. DATUM ASSUMED GRID 2020 DATE	BALLINA SHIRE COUNCIL KERR STREET AND BENTINICK STREET BALLINA	MANAGER G Varley	DATE 18.01.2022	REVISION 2	REFERENCE C 2020-0530	SHEET 7 OF 10 SHEETS		
2	Opposing Semi Trailers to and from Bentinick St. No additional bus paths in accordance with current bus routes	RDS	18.01.2022		HYDRANT	□	TELECOM PIT	■											
1	Opposing RT Semi Trailers in Kerr St and Bus LT and RT to and from Bentinick St - Swept Paths added	RDS	10.12.2021		GAS VALVE	▲	SURVEY MARK	▲											
A	Original Issue	RDS	11.12.2020		SEWER MANHOLE	⊗													
					ELECT LIGHT POLE	○													
				POWER POLE	○														
					STAY POLE	○													
					TELEPHONE BOX	□													
					TELECOM PILLAR	●													

2020-0530

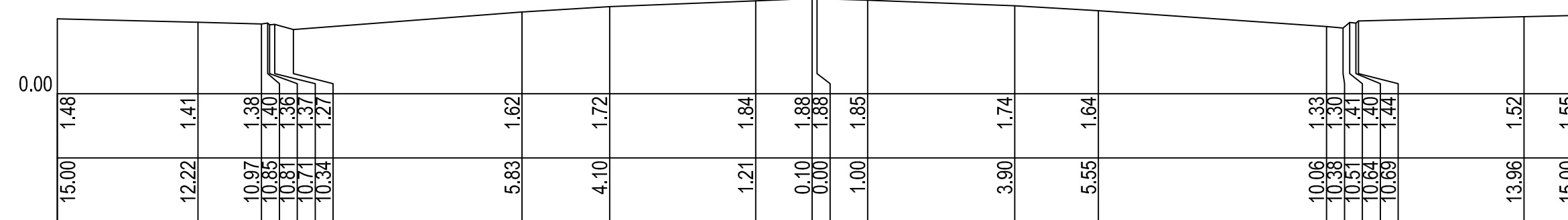
CHGE 80



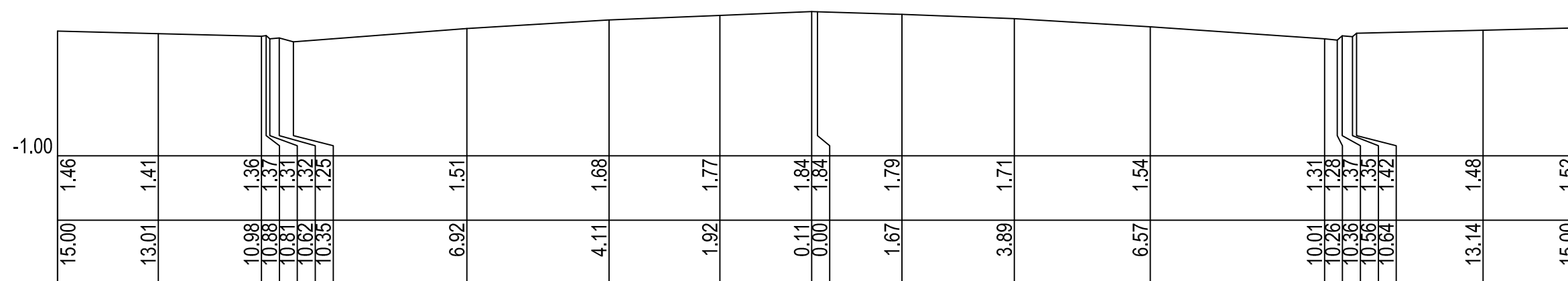
CHGE 60



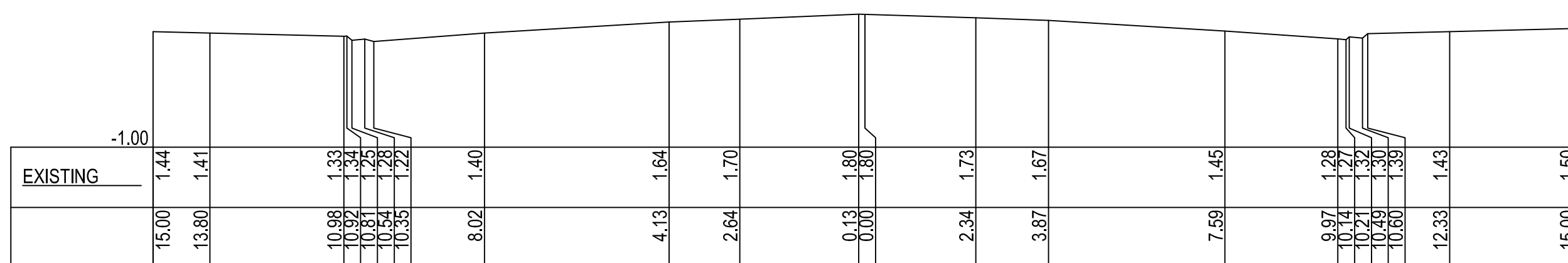
CHGE 40



CHGE 20



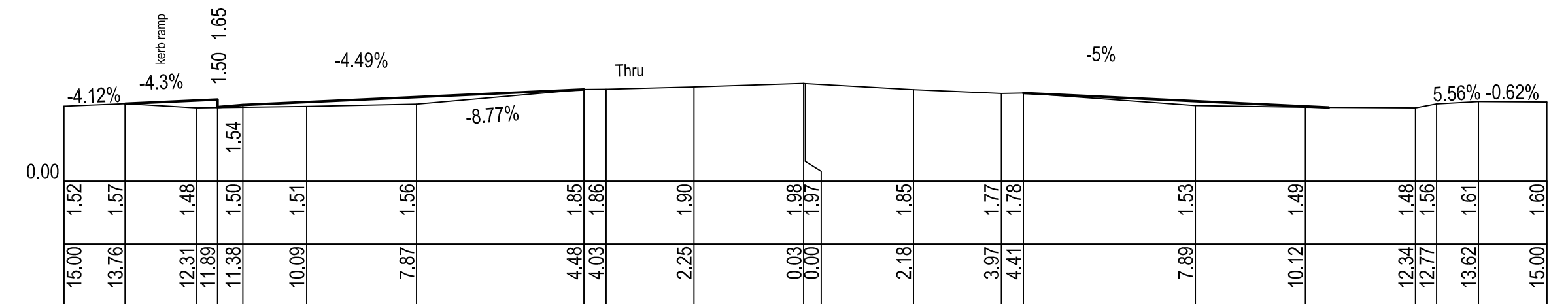
CHGE 00



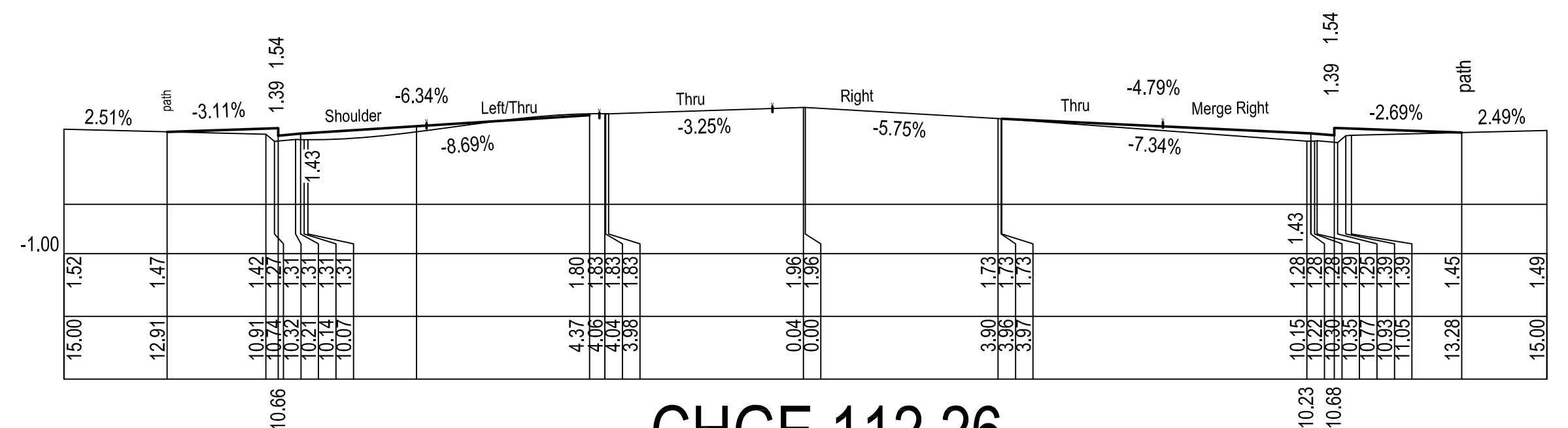
NOTES

1. ALL LEVELS ARE TO BE REFERENCED FROM ESTABLISHED BENCH MARKS AND STATIONS.
2. STRING MS01 CONSTITUTES THE PROJECT CENTRELINE.

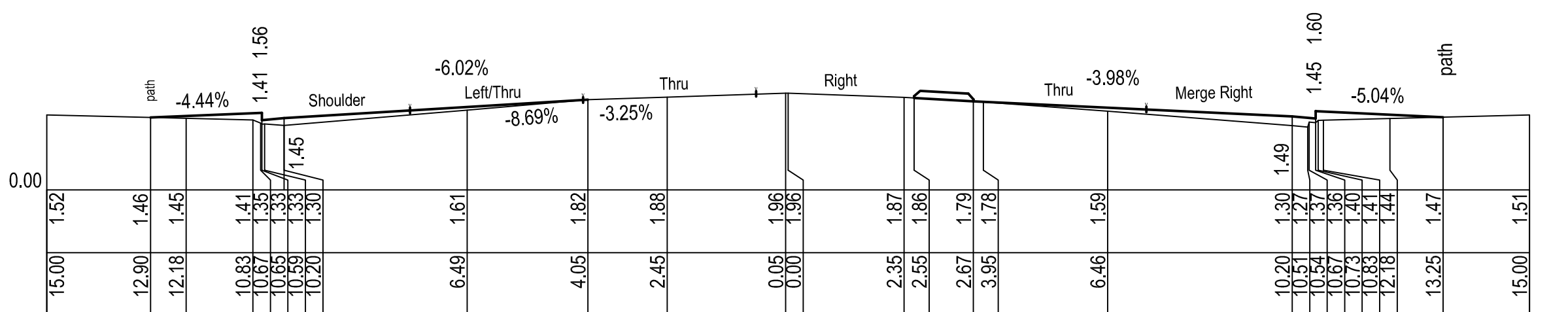
CHGE 120



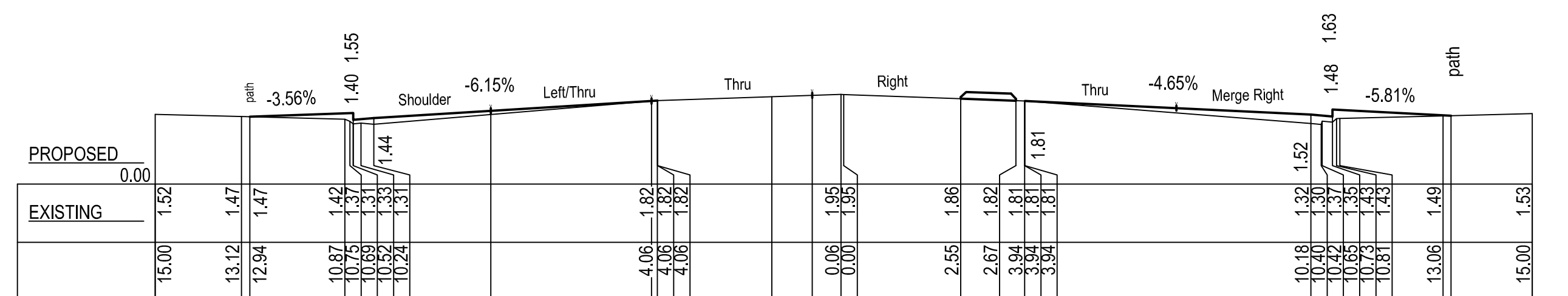
CHGE 112.26



CHGE 100



CHGE 91.99



REV	DESCRIPTION	DESIGNED	DATE	SCALE	SERVICE	SYM	SERVICE	SYM	ROAD DELAY SOLUTIONS ROAD DELAY SOLUTIONS Pty Ltd 9 HORST PLACE MONA VALE NSW AUSTRALIA M +61 414 810 912 E gvarley@bigpond.com	G VARLEY Road Delay Solutions P/L DESIGNED	BALLINA SHIRE COUNCIL SURVEYED	BALLINA SHIRE COUNCIL KERR STREET AND BENTINICK STREET BALLINA				SHEET			
				01234510	HYDRANT STOP VALVE GAS VALVE SEWER MANHOLE ELECT LIGHT POLE POWER POLE STAY POLE TELEPHONE BOX TELECOM PILLAR	☐ ☒ ☒ ☒ ☐ ☐ ☒ ☐ ☒	TELECOM PIT SURVEY MARK	☒ ☒		BRETT HOWARD Ballina Shire Council CHECKED	A.H.D. DATUM	ASSUMED GRID	MANAGER	DATE	REVISION	REFERENCE	OF		
2	Pavement resurfacing and introduction of low level footway/drainage	RDS	30.01.2022	1:100 when printed as A1						BRETT DYKI Ballina Shire Council RECOMMENDED	2020 DATE			<i>G Varley</i>	30.01.2022	2	C 2020/0530	10	
1	Cross Sections on Kerr Street added Sheets 8, 9 and 10	RDS	10.12.2021																SHEETS
A	Original Issue	RDS	11.12.2020																
				1	2	3	4	5	6	7	© 2020. COPYRIGHT ROAD DELAY SOLUTIONS PTY LTD.								

2020-0530

NOTES

1. ALL LEVELS ARE TO BE REFERENCED FROM ESTABLISHED BENCH MARKS AND STATIONS.
2. STRING MS01 CONSTITUTES THE PROJECT CENTRELINE.

CHGE 166.99

CHGE 160

CHGE 157.51

CHGE 145.48

CHGE 140

CHGE 240

CHGE 220

CHGE 200

CHGE 180

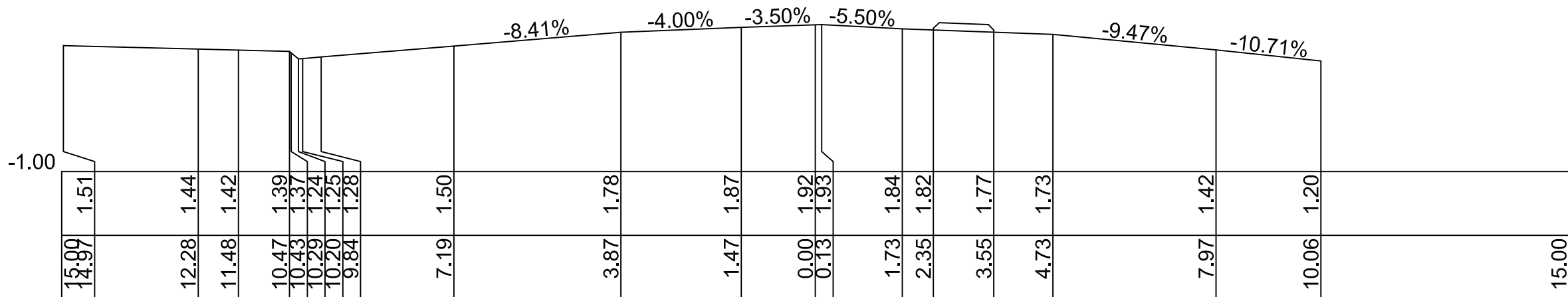
REV	DESCRIPTION	DESIGNED	DATE	SCALE	SERVICE	SYM	SERVICE	SYM	ROAD DELAY SOLUTIONS				BALLINA SHIRE COUNCIL				SHEET
					HYDRANT	□	TELECOM PIT	■	9 HORST PLACE MONA VALE NSW AUSTRALIA				KERR STREET AND BENTINICK STREET				9
					STOP VALVE	▲	SURVEY MARK	▲	M +61 414 800 912 E gvarley@bigpond.com				BALLINA				10
					GAS VALVE	#			G VARLEY Road Delay Solutions P/L				DESIGNED				OF
					SEWER MANHOLE	⊗			BRETT HOWARD Ballina Shire Council				A.H.D.				SHEETS
					ELECT LIGHT POLE	○			CHECKED				DATE				
					POWER POLE	○			G Varley				ASSUMED				
					STAY POLE	○			SITE CHECKED				GRID				
					TELEPHONE BOX	⊗			BRETT DYKI Ballina Shire Council				2020				
					TELECOM PILLAR	●			RECOMMENDED				DATE				
2	Pavement resurfacing and introduction of low level footway/drainage	RDS	30.01.2022						BALLINA SHIRE COUNCIL				SURVEYED				
1	Cross Sections on Kerr Street added Sheets 8, 9 and 10	RDS	10.12.2021						BRETT HOWARD Ballina Shire Council				A.H.D.				
A	Original Issue	RDS	11.12.2020						CHECKED				DATE				
									G VARLEY				MANAGER				
									30.01.2022				DATE				
									2				REVISION				
									C 2020/0530				REFERENCE				
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2020-0530

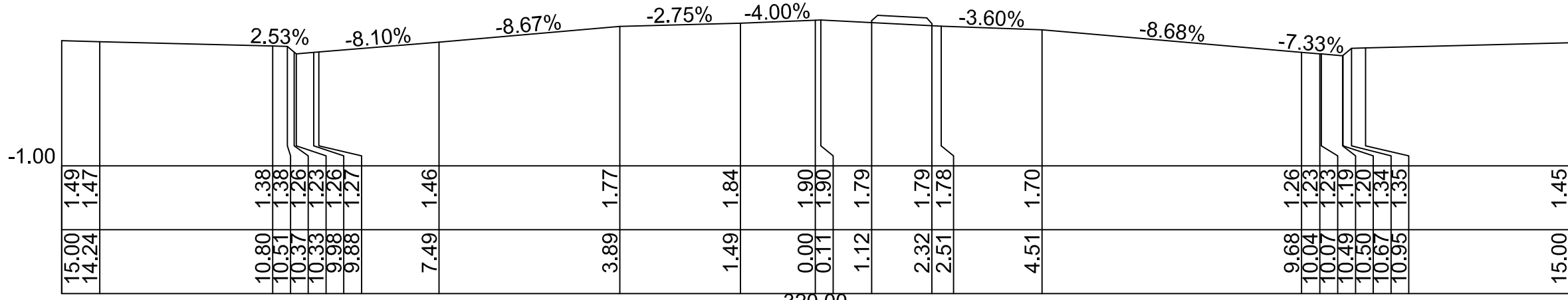
NOTES

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2. STRING MS01 CONSTITUTES THE PROJECT CENTRELINE.

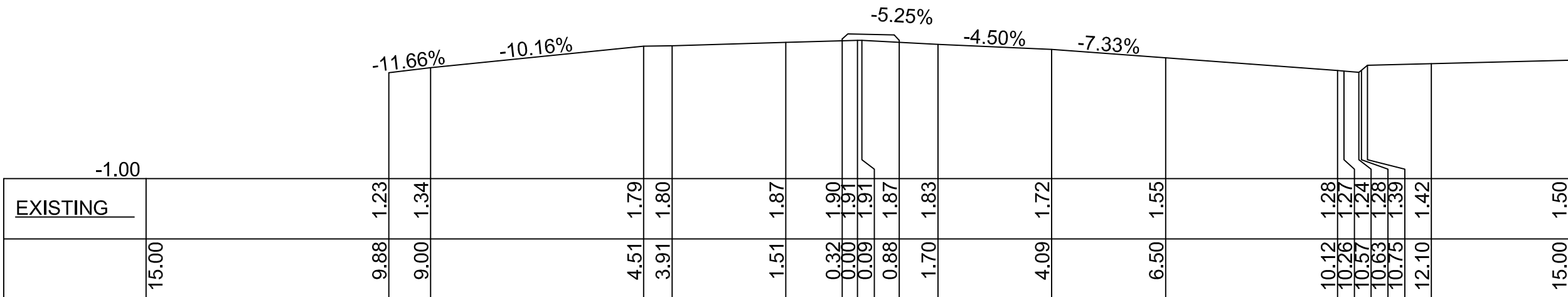
CHGE 300



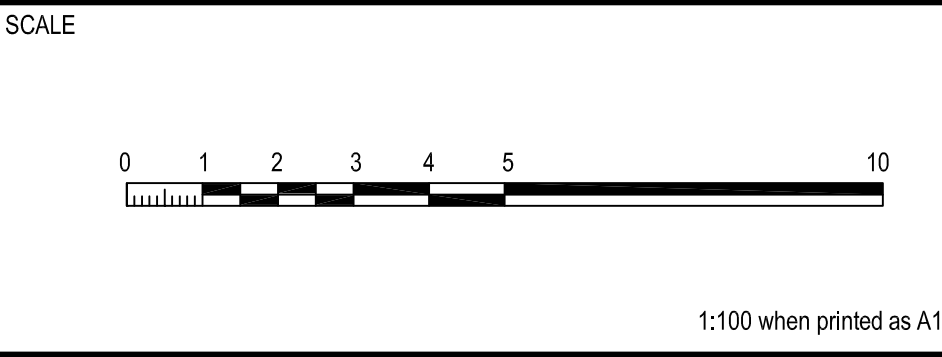
CHGE 280



CHGE 260



REV	DESCRIPTION	DESIGNED	DATE
2	Pavement resurfacing and introduction of low level footway/drainage	RDS	30.01.2022
1	Cross Sections on Kerr Street added Sheets 8, 9 and 10	RDS	10.12.2021
A	Original Issue	RDS	11.12.2020



SERVICE	SYM	SERVICE	SYM
HYDRANT	□	TELECOM PIT	■
STOP VALVE	▲	SURVEY MARK	▲
GAS VALVE	#		
SEWER MANHOLE	⊗		
ELECT LIGHT POLE	○		
POWER POLE	○		
STAY POLE	○		
TELEPHONE BOX	⊞		
TELECOM PILLAR	●		

ROAD DELAY SOLUTIONS

ROAD DELAY SOLUTIONS Pty Ltd
9 HORST PLACE | MONA VALE NSW | AUSTRALIA
M +61 414 800 912 E gvarley@bigpond.com

G VARLEY Road Delay Solutions P/L
DESIGNED
BRETT HOWARD Ballina Shire Council
CHECKED
BRETT DYKI Ballina Shire Council
RECOMMENDED

BALLINA SHIRE COUNCIL
SURVEYED
A.H.D.
DATUM
ASSUMED
GRID
2020
DATE

BALLINA SHIRE COUNCIL
KERR STREET AND BENTINICK STREET
BALLINA

MANAGER
G Varley

DATE
30.01.2022

REVISION
2

REFERENCE
C 2020/0530

SHEET
10
OF
10
SHEETS