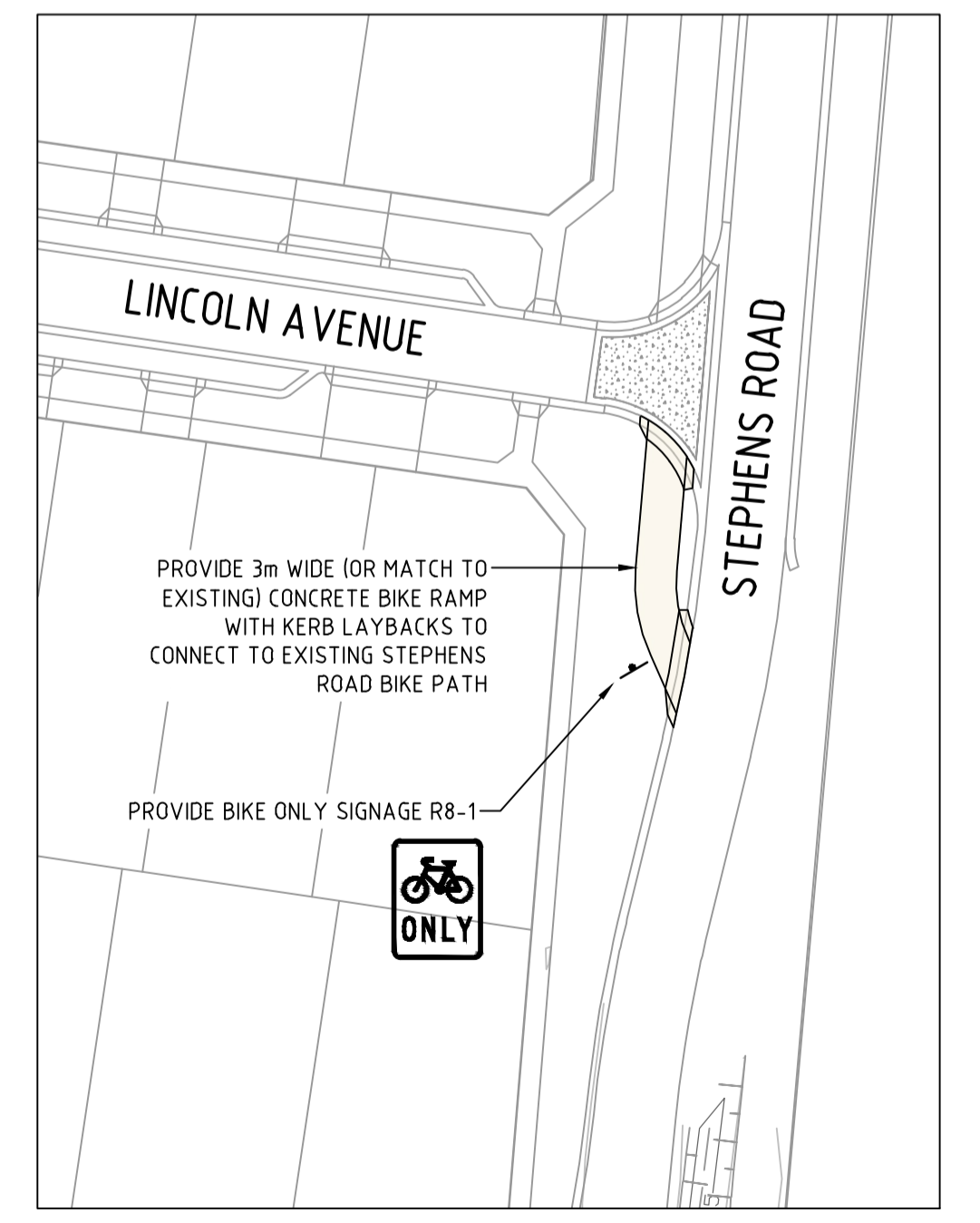
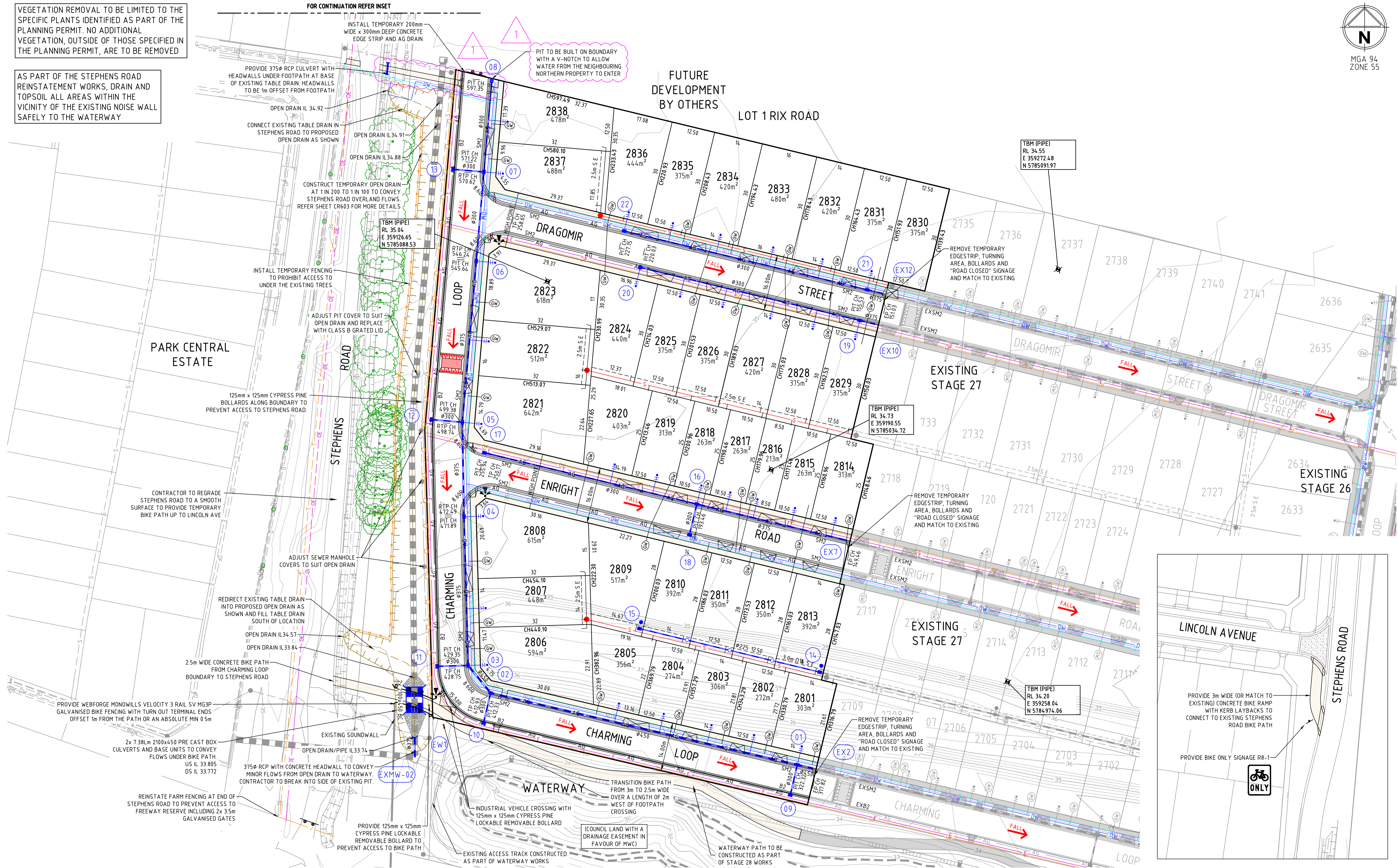


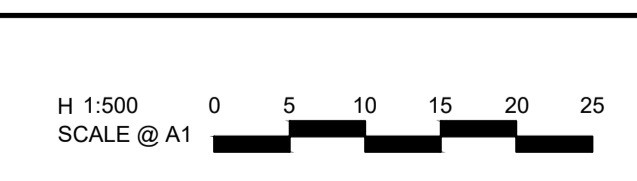
VEGETATION REMOVAL TO BE LIMITED TO THE SPECIFIC PLANTS IDENTIFIED AS PART OF THE PLANNING PERMIT. NO ADDITIONAL VEGETATION, OUTSIDE OF THOSE SPECIFIED IN THE PLANNING PERMIT, ARE TO BE REMOVED

AS PART OF THE STEPHENS ROAD REINSTATEMENT WORKS, DRAIN AND TOPSOIL ALL AREAS WITHIN THE VICINITY OF THE EXISTING NOISE WALL SAFELY TO THE WATERWAY



file name: 305268CR200.dwg; layout: Plans; CP200; created by: Darrin Stephenson; file location: G:\305268CR200\305268CR200\ACAD\Plot date: 08/10/2024; 1:4:1; Plot Sheet: 2 of 17 Sheets

1	AMENDED PIT 08 LOCATION AND CHARMING LOOP FOOTPATH ALIGNMENT	P.C	08-10-21
0	ISSUED FOR CONSTRUCTION	P.C	01-10-21
F	AMENDED CULVERTS, OPEN DRAIN, STEPHENS RD. ADDED LINCOLN AVE BIKE RAMP	P.C	09-02-21
E	AMENDED OPEN DRAIN. ADDED BIKE PATH CONNECTION TO STEPHENS ROAD	P.C	24-08-21
D	AMENDED OPEN DRAIN. ADDED FOOTPATH TO STEPHENS ROAD, BOLLARDS.	P.C	29-07-21
C	ADDED STEPHENS ROAD OPEN DRAIN	P.C	05-02-21
B	AMENDED NOTES AND STEPHENS ROAD EX SERVICES. ADDED LOT 2830 DRIVEWAY	P.C	12-05-20
A	PRELIMINARY ISSUE	P.C	29-04-20
Rev	Amendments	Approved	Date



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Designed by M. WRIGHT
Checked by B. IBBS
Authorised by P. CURNOW
Date: 01-10-21

ARCADIA ESTATE
STAGE 28
ROAD & DRAINAGE LAYOUT PLAN
FACE SHEET
CARDINA SHIRE COUNCIL
SATTERLEY PROPERTY GROUP

CONSTRUCTION Drg No: 305268CR200 Rev: 1



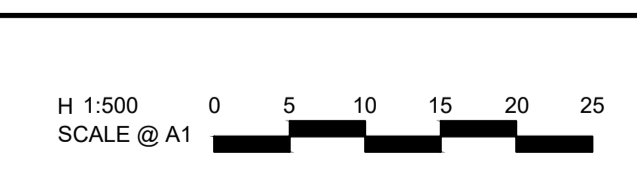
FILL GREATER THAN 200mm COMPLETED AS PART OF BULK EARTHWORKS
 CUT GREATER THAN 200mm COMPLETED AS PART OF BULK EARTHWORKS

NOTE: UNDER A SEPARATE CONTRACT ALL SILT/TOPSOIL ON THE LOT AREAS HAS BEEN REMOVED AND REPLACED WITH CLAY UNDER LEVEL 1 SUPERVISION BACK TO PRE-EXISTING NATURAL SURFACE

NOTE: THE EXISTING SURFACE LEVELS SHOWN ARE THE APPROXIMATE LEVEL TO WHICH THE SILT/ TOPSOIL HAS BEEN REMOVED BELOW NATURAL SURFACE. THESE ARE BASED ON THE GEOTECHNICAL REPORT 754-MELGE202942AB BY COFFEY SERVICES AUSTRALIA.

file name: 305268CR201.dwg, layout name: CD201, plotted by: Darrin Stueben, file location: G:\305268\305268.dwg, LACAD Plot date: 08/10/2021 14:44, Plot Sheet: 3 of 17 Sheets

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	P.C	01-10-21
D	AMENDED OPEN DRAIN. ADDED BIKE PATH CONNECTION TO STEPHENS ROAD	P.C	24-08-21
C	ADDED STEPHENS ROAD OPEN DRAIN & AMENDED FS LEVELS	P.C	05-02-21
B	ADDED NOTES AND NORTH ARROW	P.C	12-05-20
A	PRELIMINARY ISSUE	P.C	29-04-20

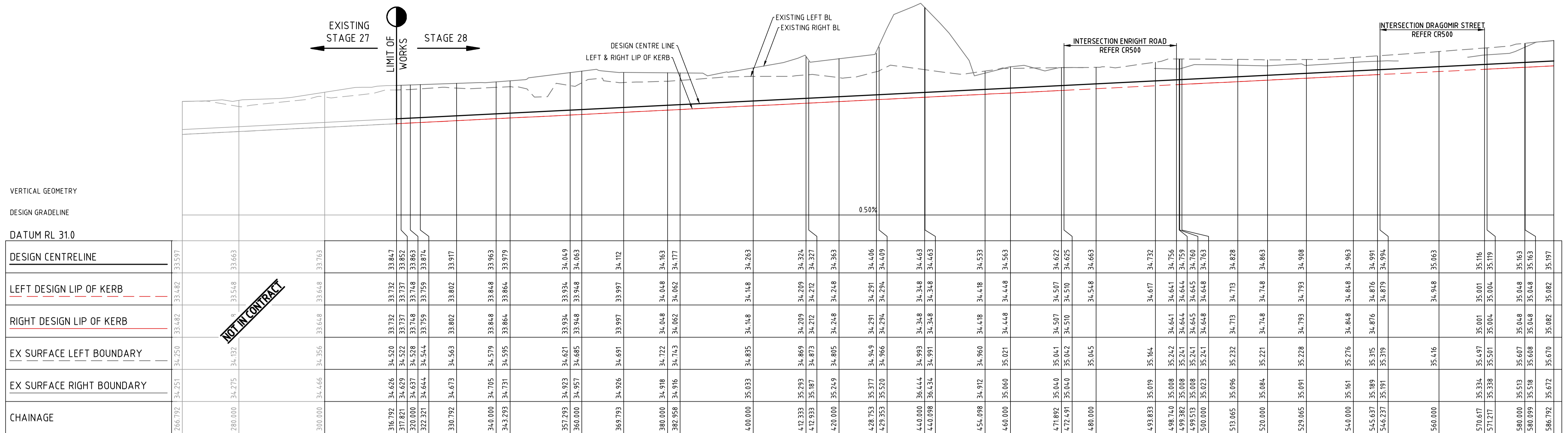


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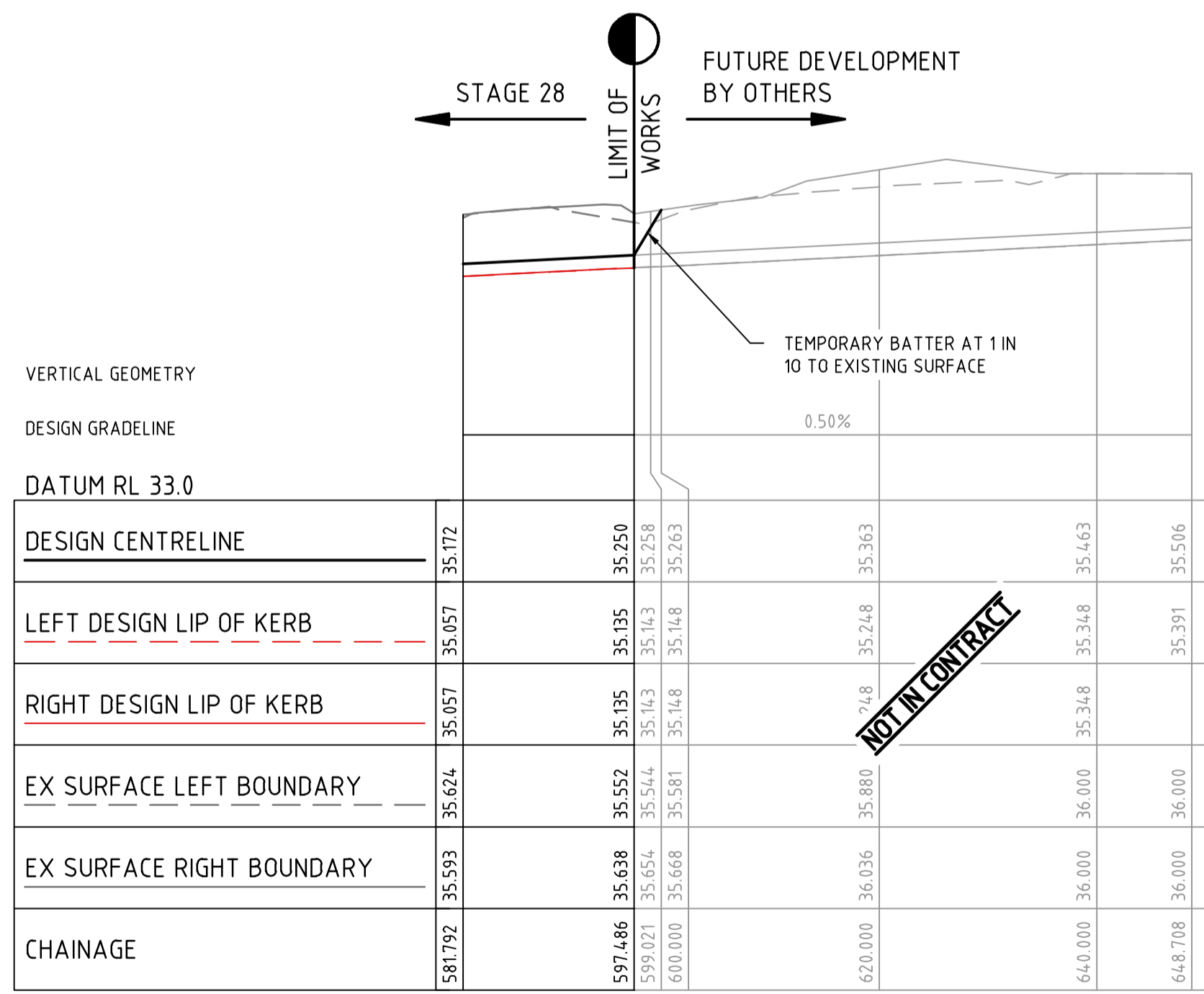
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M. WRIGHT
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P. CURNOW
 Checked
B. IBBS
 Date
01-10-21

ARCADIA ESTATE
STAGE 28
ROAD & DRAINAGE LAYOUT PLAN
FACE SHEET
 CARDINA SHIRE COUNCIL
 SATTERLEY PROPERTY GROUP
CONSTRUCTION Drg No **305268CR201** Rev **0**



CHARMING LOOP



CHARMING LOOP

file name: 305268CR300.dwg | location: C:\Users\p.curnow\Documents\305268CR300.dwg | plot date: 08/10/2024 | 1:4:44 PM | Sheet 1 of 17 Sheets

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	P.C	01-10-21
A	PRELIMINARY ISSUE	P.C	29-04-20

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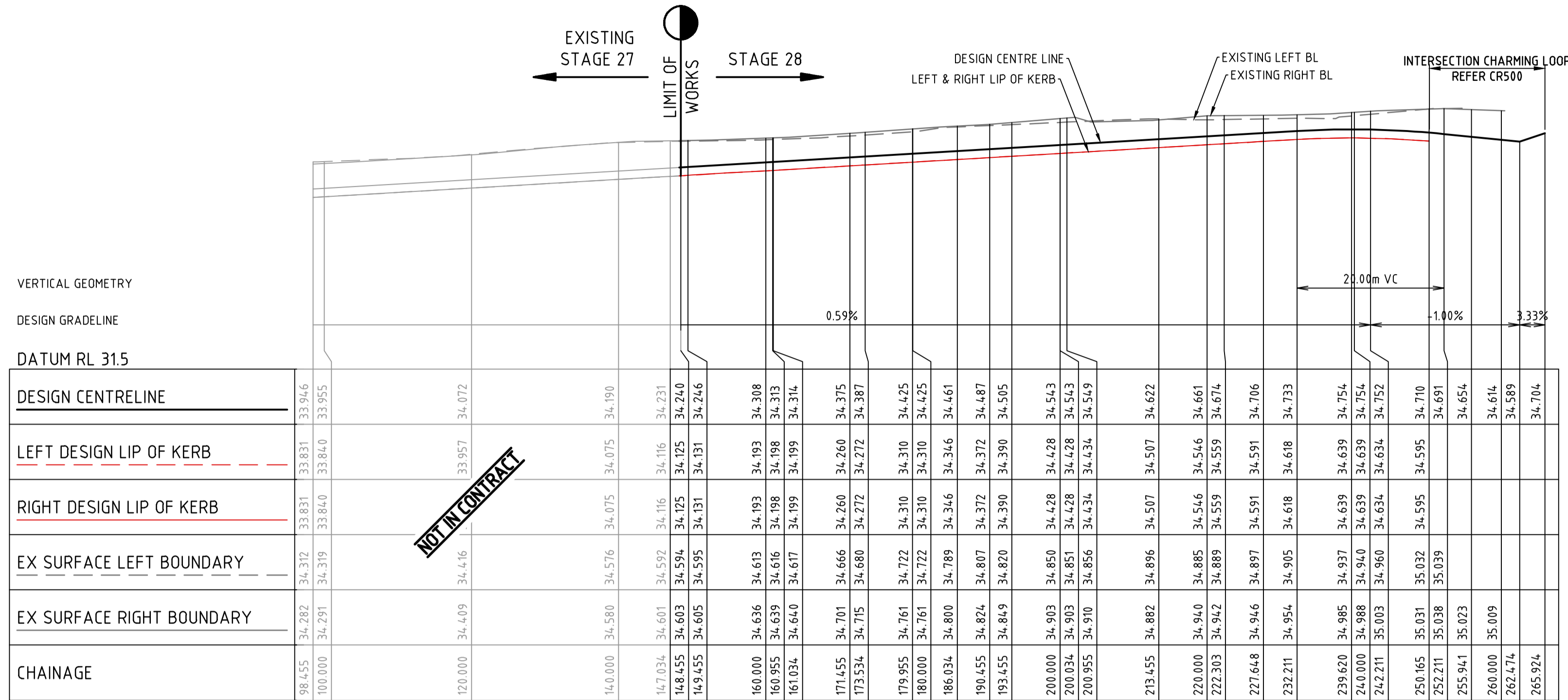
Designed
M. WRIGHT
Authorised
P. CURNOW

Checked
B. IBBS
Date
01-10-21

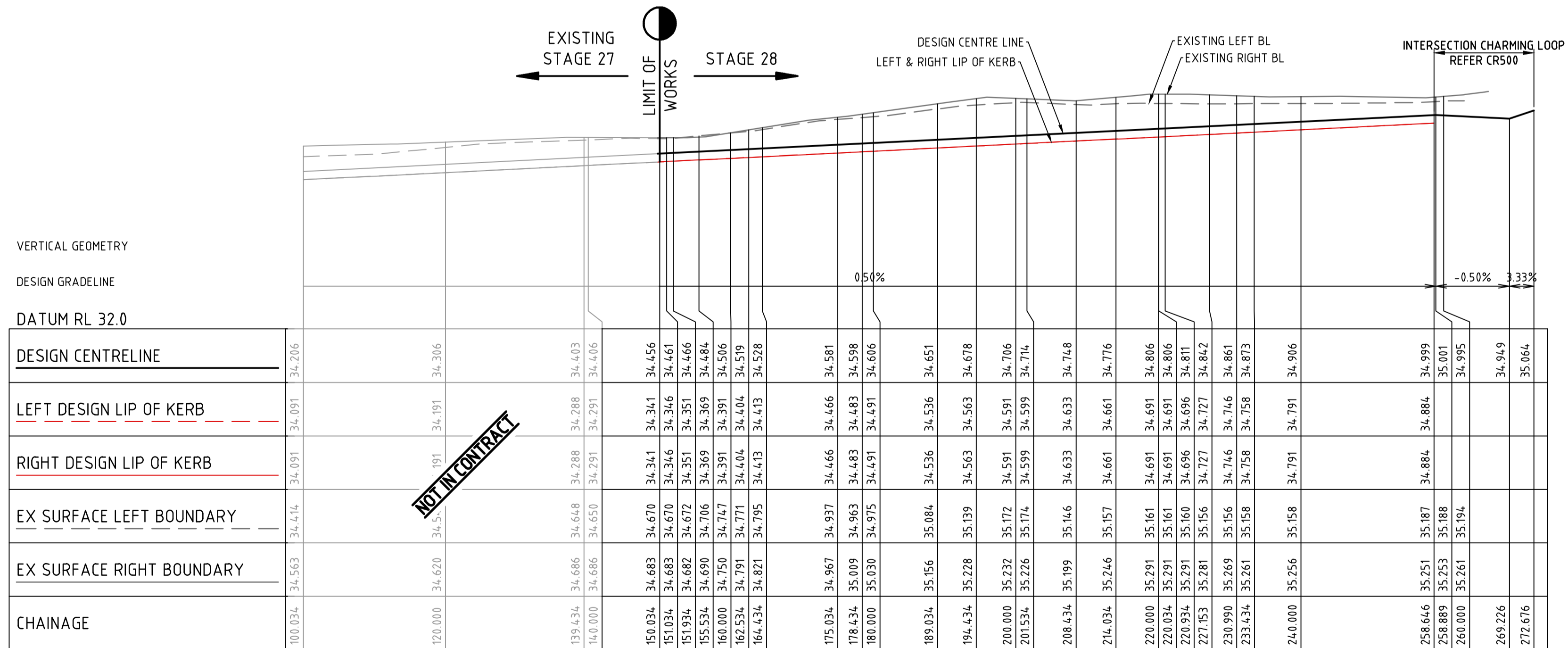
ARCADIA ESTATE
STAGE 28
ROAD LONGITUDINAL SECTIONS
CHARMING LOOP
CARDINA SHIRE COUNCIL
SATTERLEY PROPERTY GROUP

CONSTRUCTION Drg No **305268CR300** Rev **0**

File Name: 305268CR301.dwg, Location: C:\Users\p.curnow\Documents\305268CR301.dwg, Plot Date: 10/10/2021 14:44, Plot Size: 5 of 17 Sheets

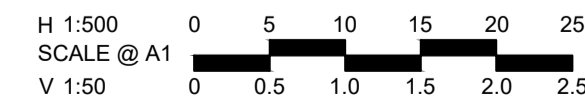


ENRIGHT ROAD



DRAGOMIR STREET

Rev	Description	By	Date
0	ISSUED FOR CONSTRUCTION	P.C	01-10-21
A	PRELIMINARY ISSUE	P.C	29-04-20
	Amendments	Approved	Date



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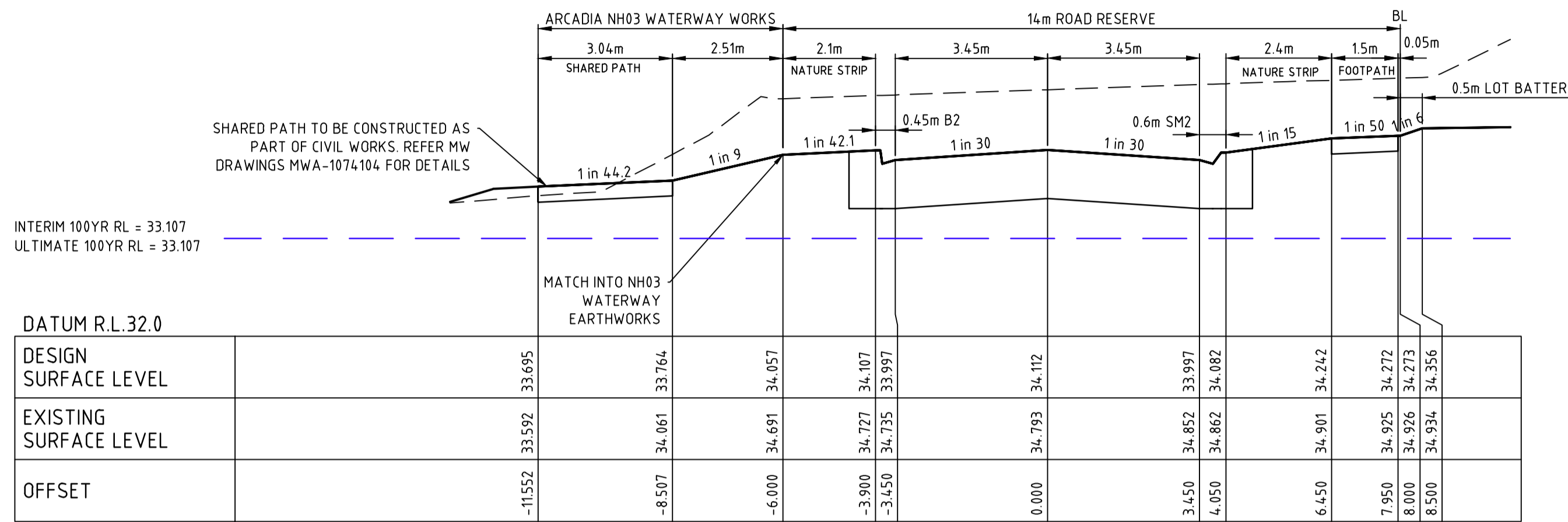
Designed
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**ARCADIA ESTATE
STAGE 28**
ROAD LONGITUDINAL SECTIONS
ENRIGHT ROAD & DRAGOMIR STREET
CARDINA SHIRE COUNCIL
SATTELEY PROPERTY GROUP

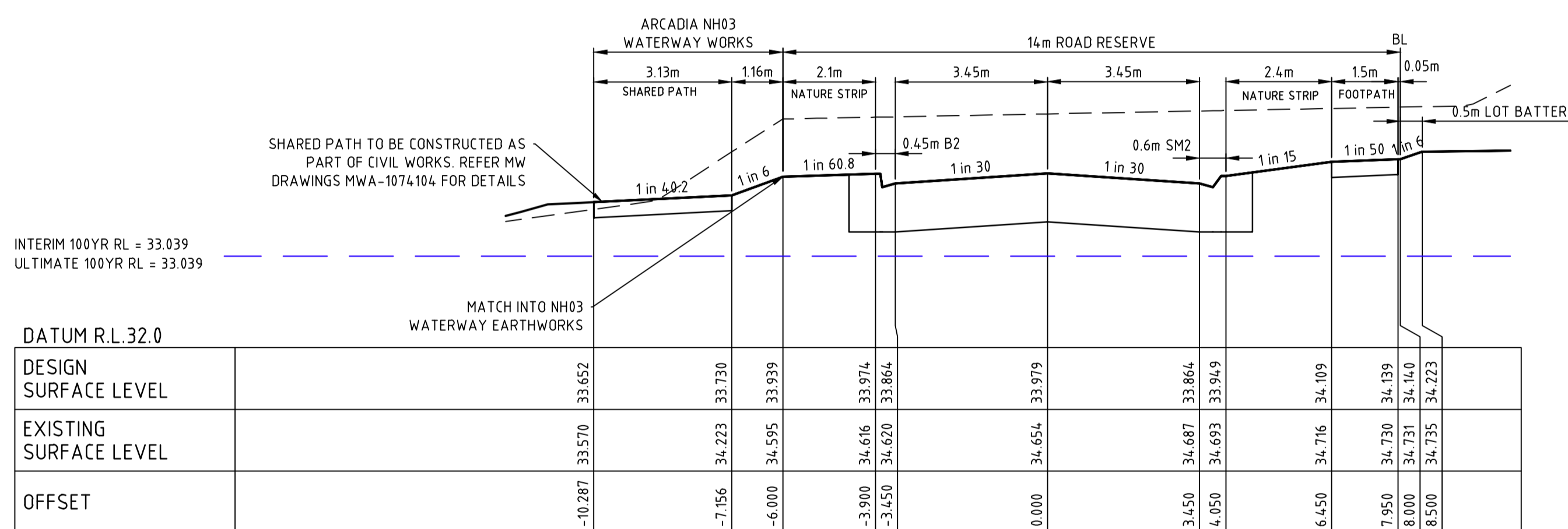
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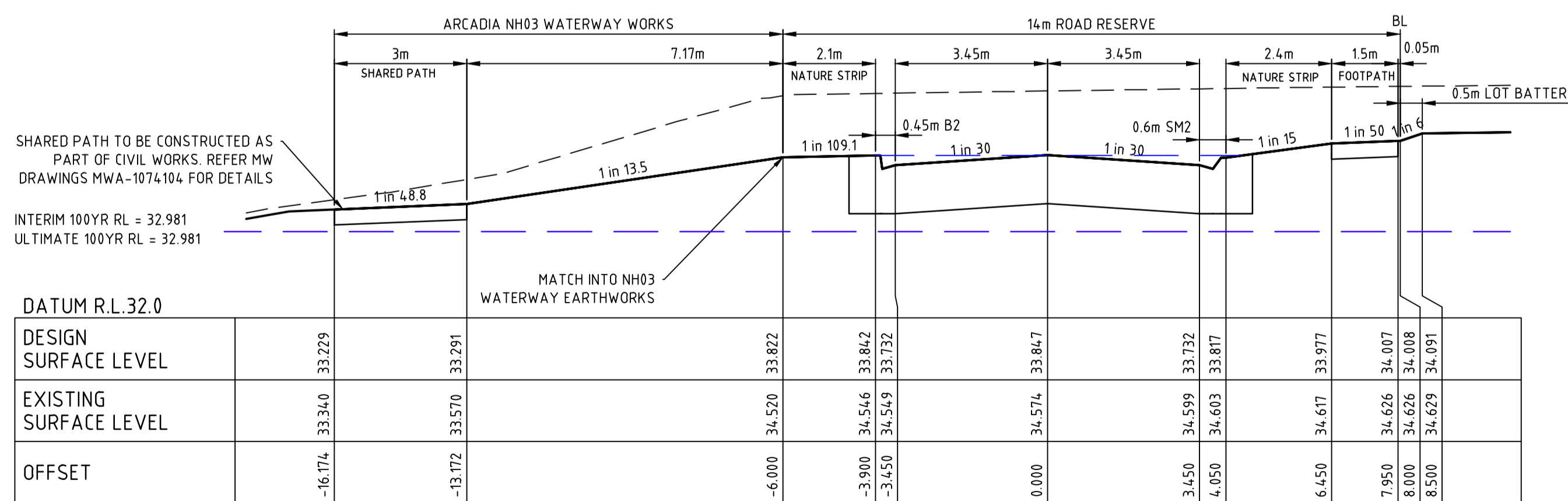
CHARMING LOOP

CH 369.79



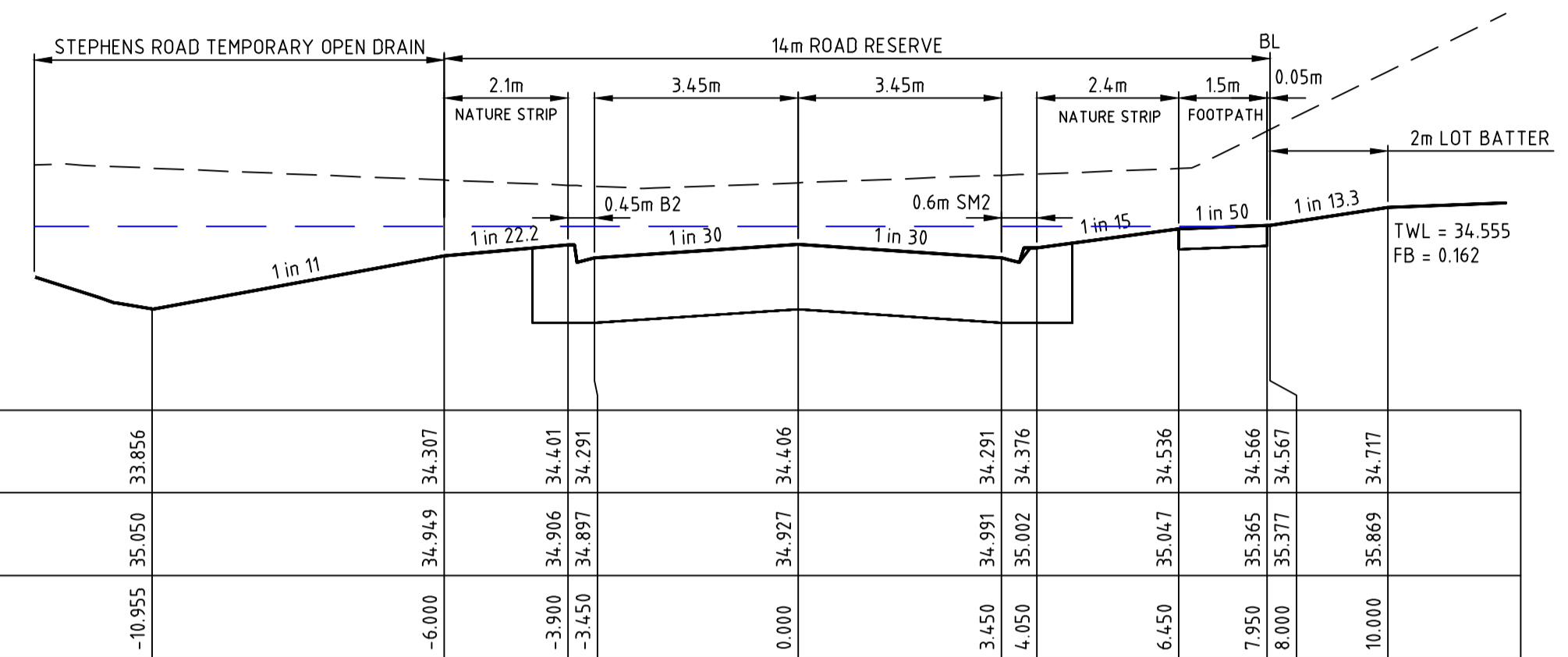
CHARMING LOOP

CH 343.29



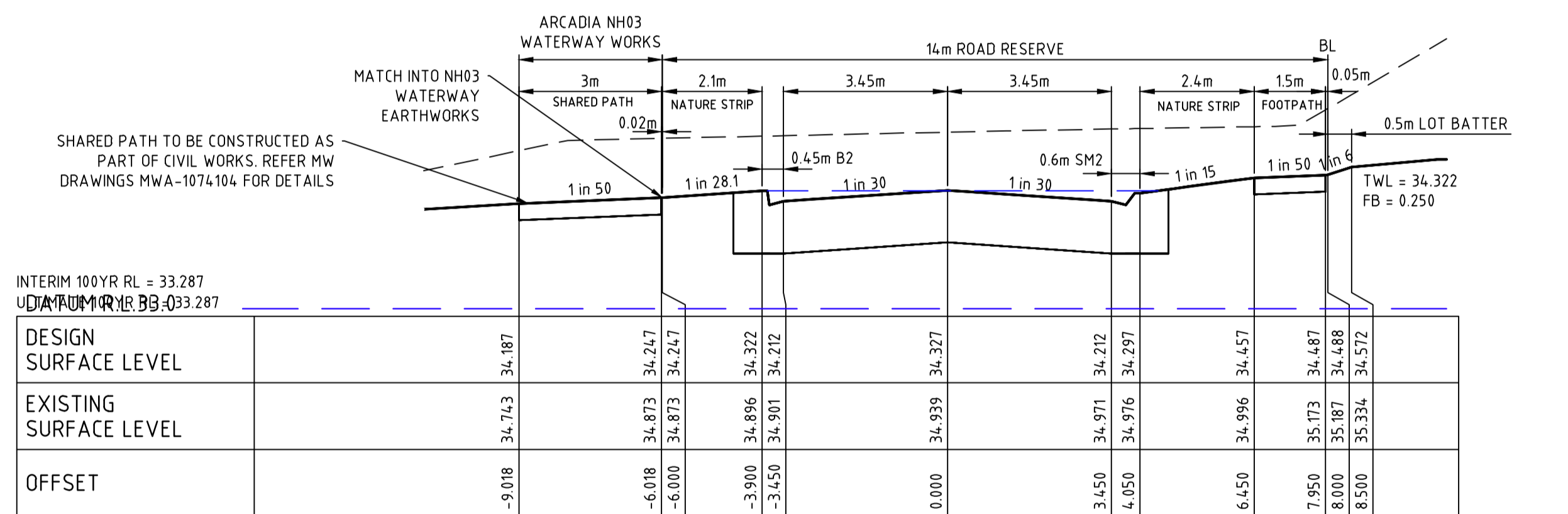
CHARMING LOOP

CH 316.79



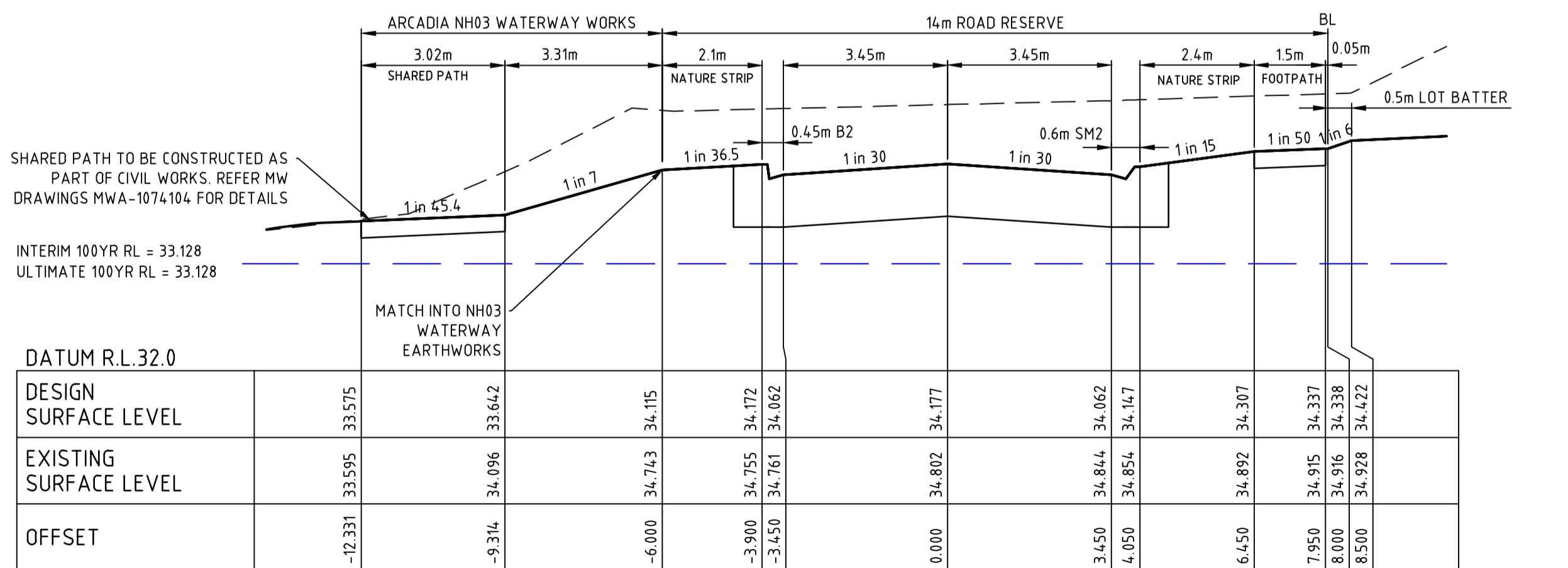
CHARMING LOOP

CH 428.75



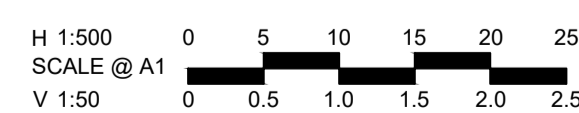
CHARMING LOOP

CH 412.93



CHARMING LOOP

CH 382.96



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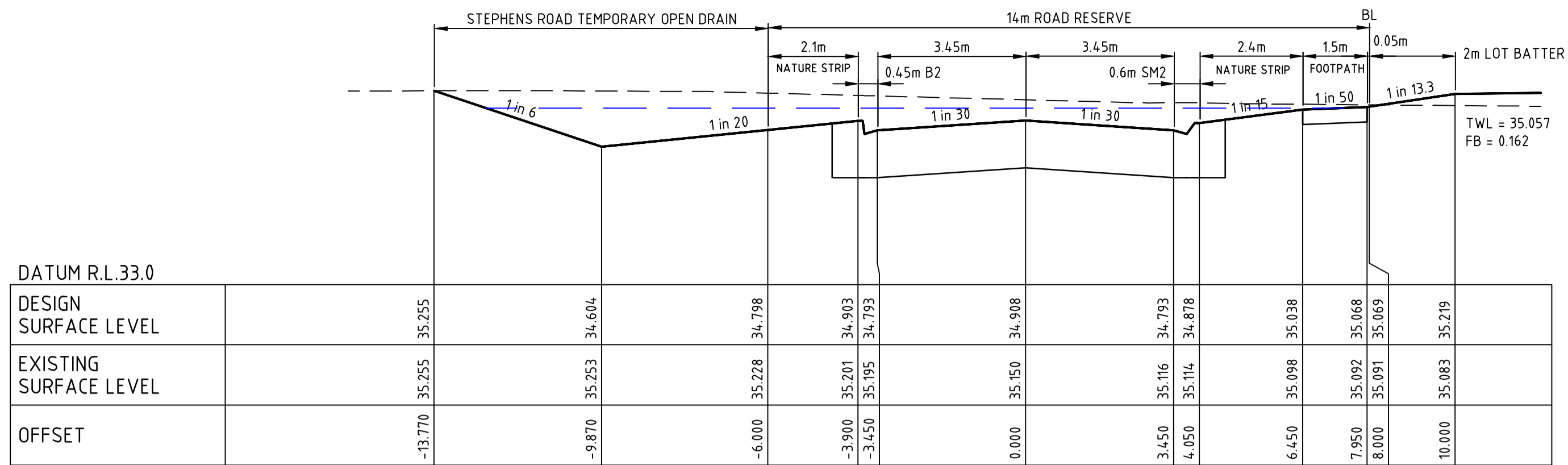


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B. IBBS
Date
01-10-21

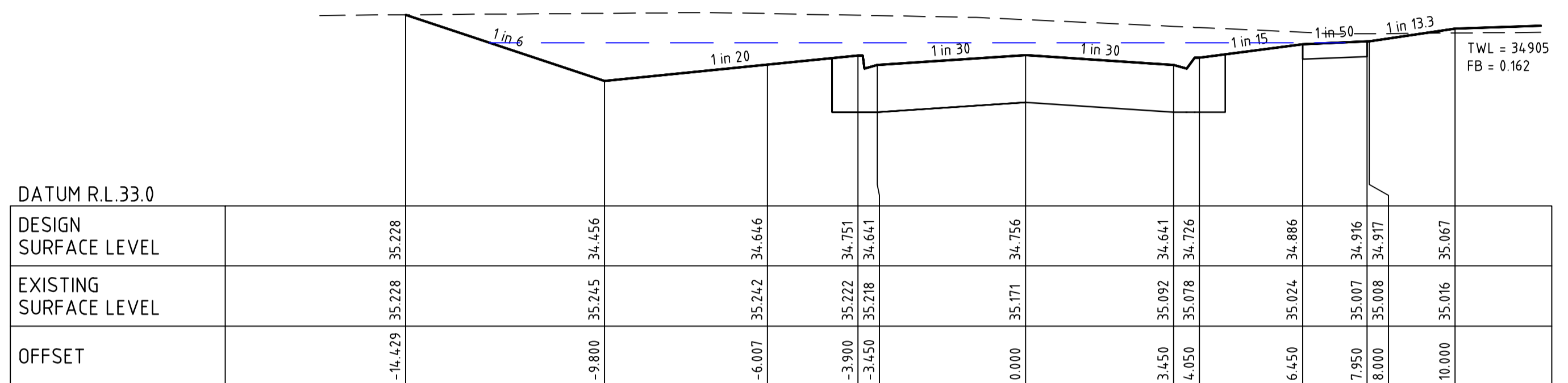
ARCADIA ESTATE
STAGE 28
ROAD CROSS SECTIONS
CHARMING LOOP - SHEET 1
CARDINA SHIRE COUNCIL
SATTERLEY PROPERTY GROUP

CONSTRUCTION Drg No 305268CR400 Rev 0

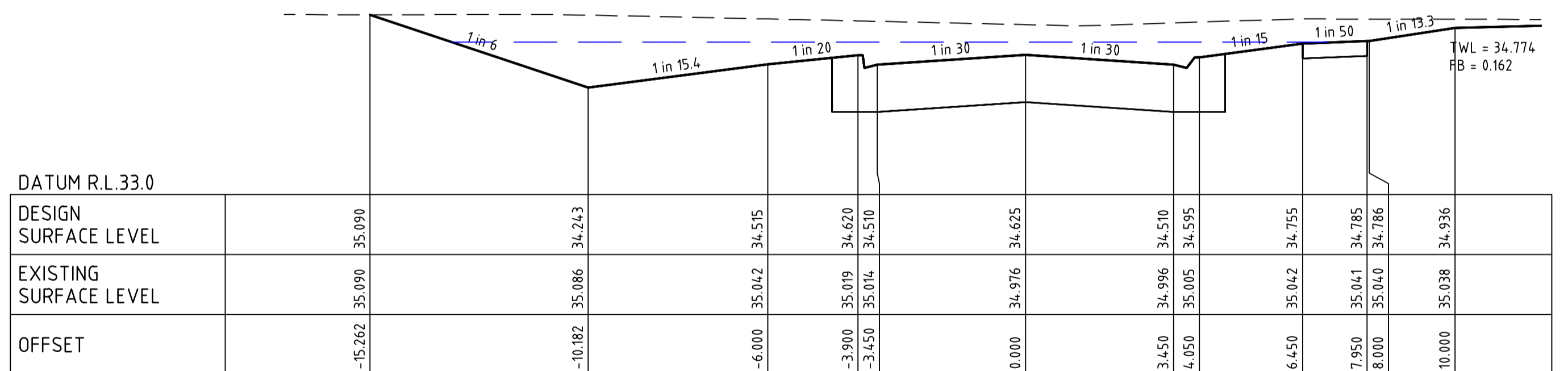
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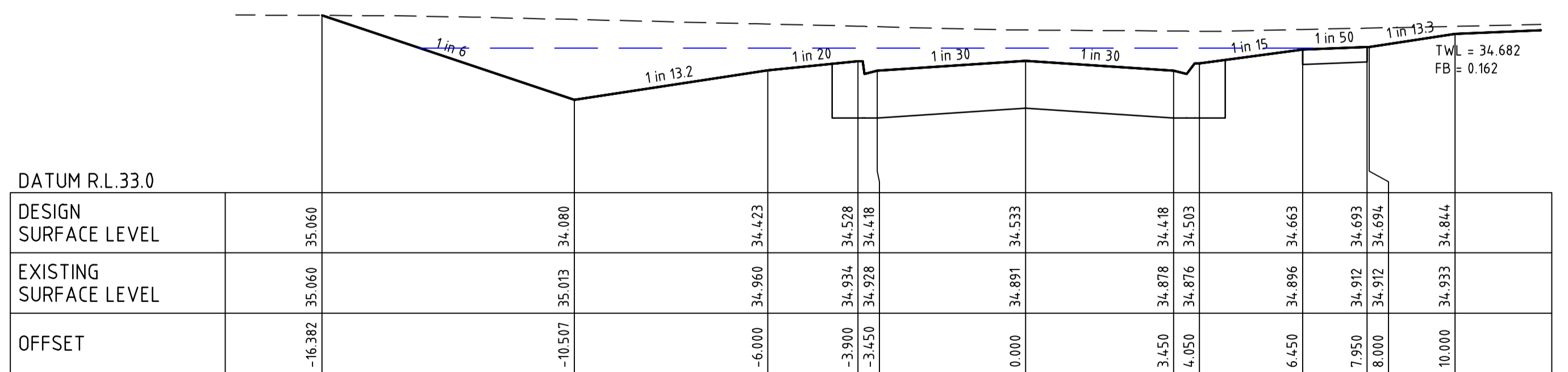
CHARMING LOOP CH 529.07



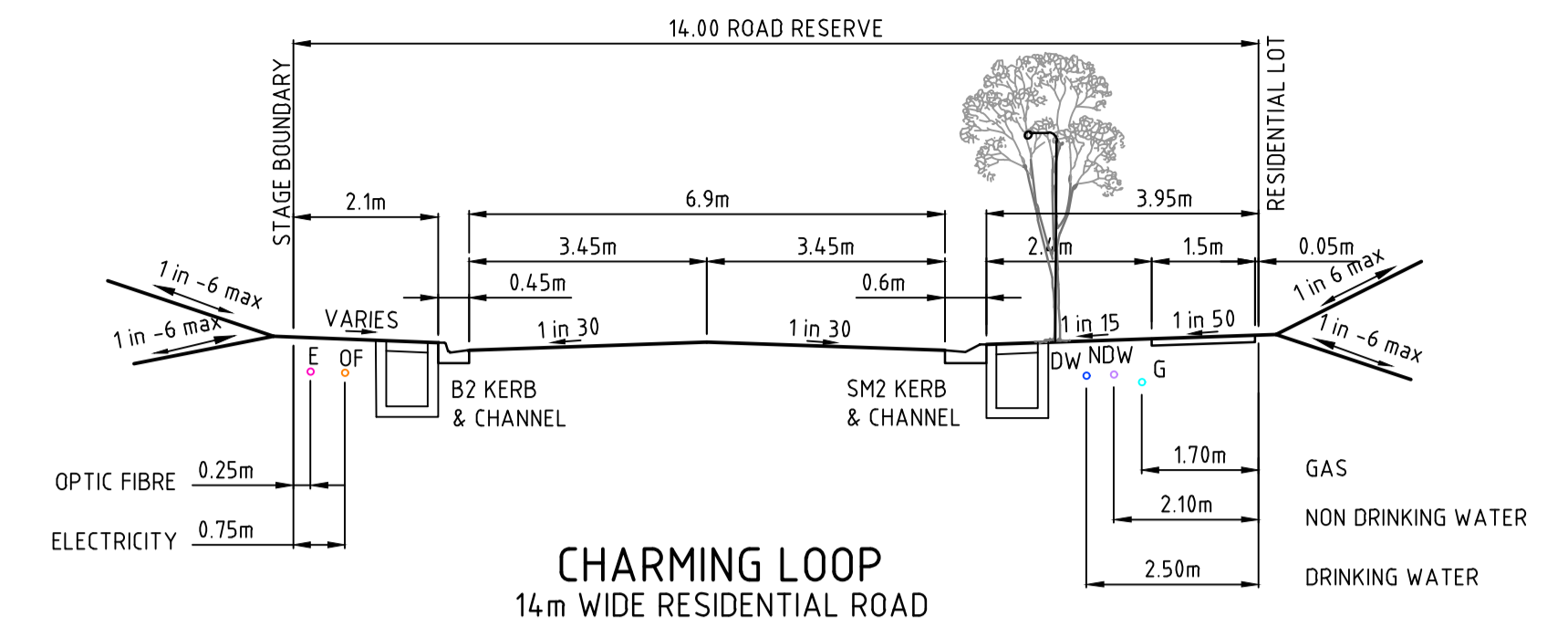
CHARMING LOOP CH 498.74



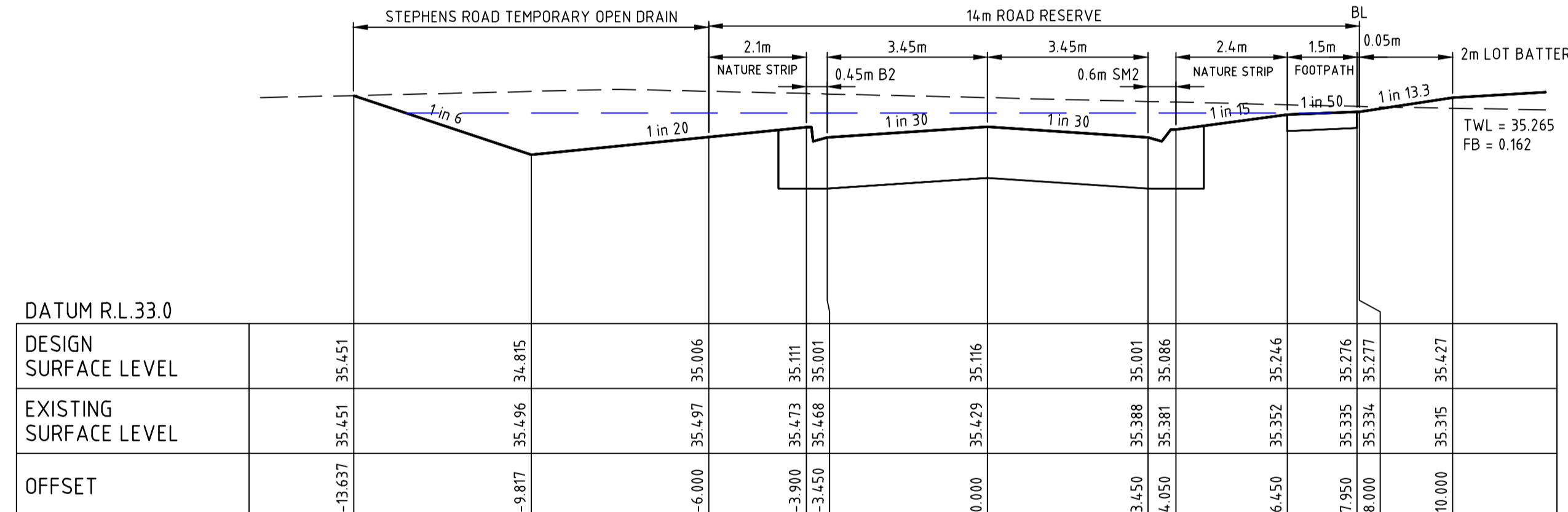
CHARMING LOOP CH 472.49



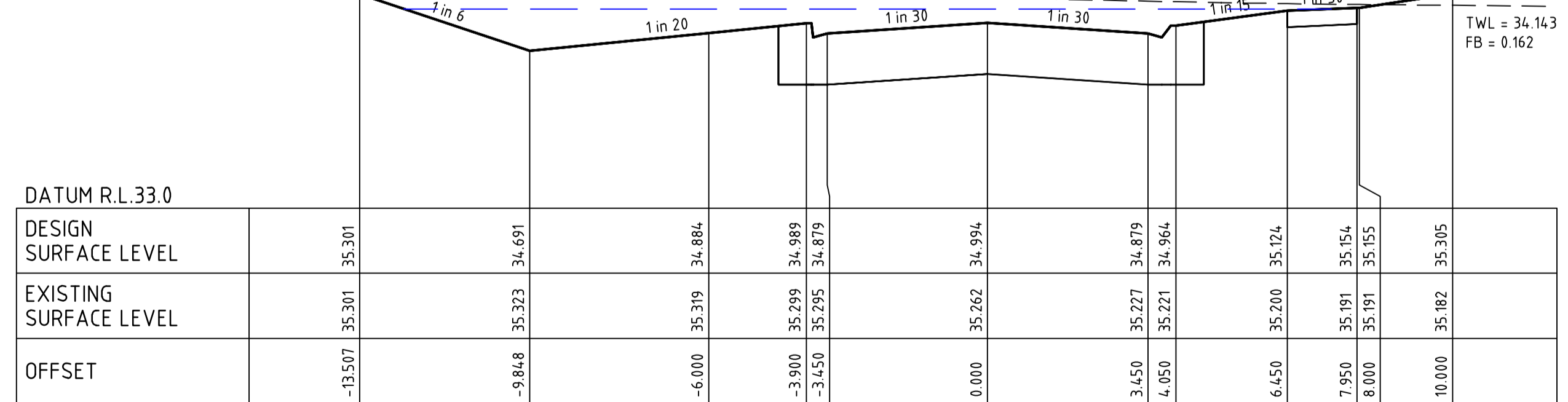
CHARMING LOOP CH 454.10



CHARMING LOOP CH 597.49



CHARMING LOOP CH 570.62



CHARMING LOOP CH 546.24

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	P.C	01-10-21
D	AMENDED OPEN DRAIN AND TWL'S	P.C	24-08-21
C	ADDED OPEN DRAIN	P.C	05-02-21
B	AMENDED NOTES	P.C	12-05-20
A	PRELIMINARY ISSUE	P.C	29-04-20

H 1:500
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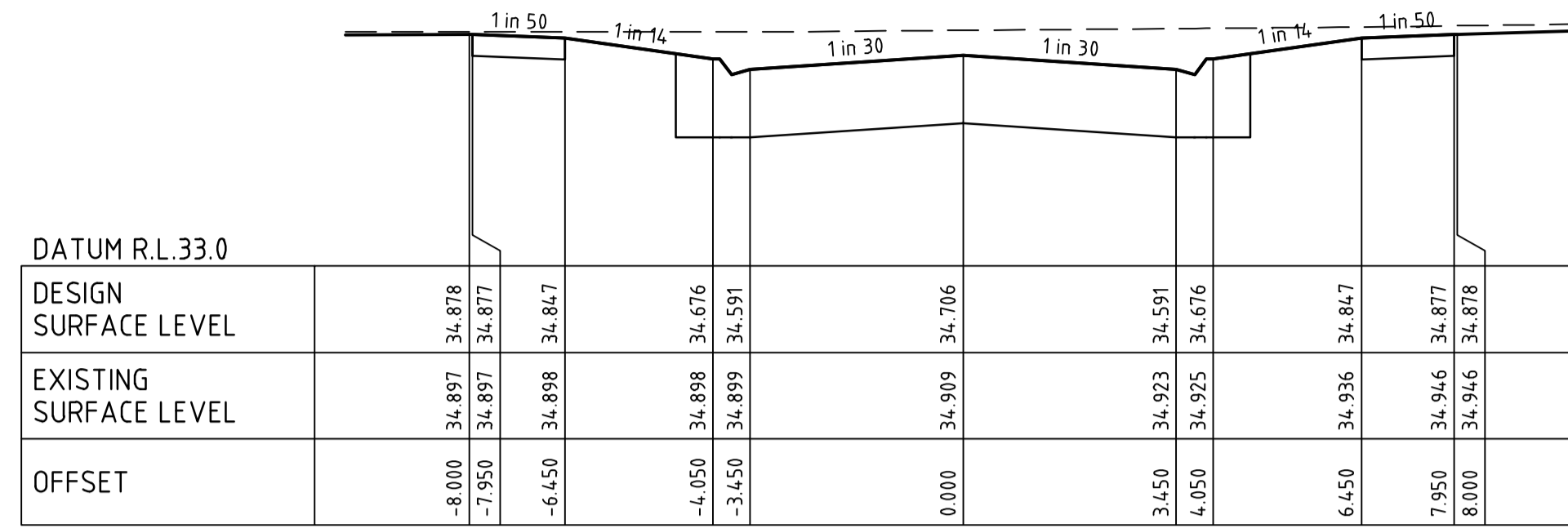
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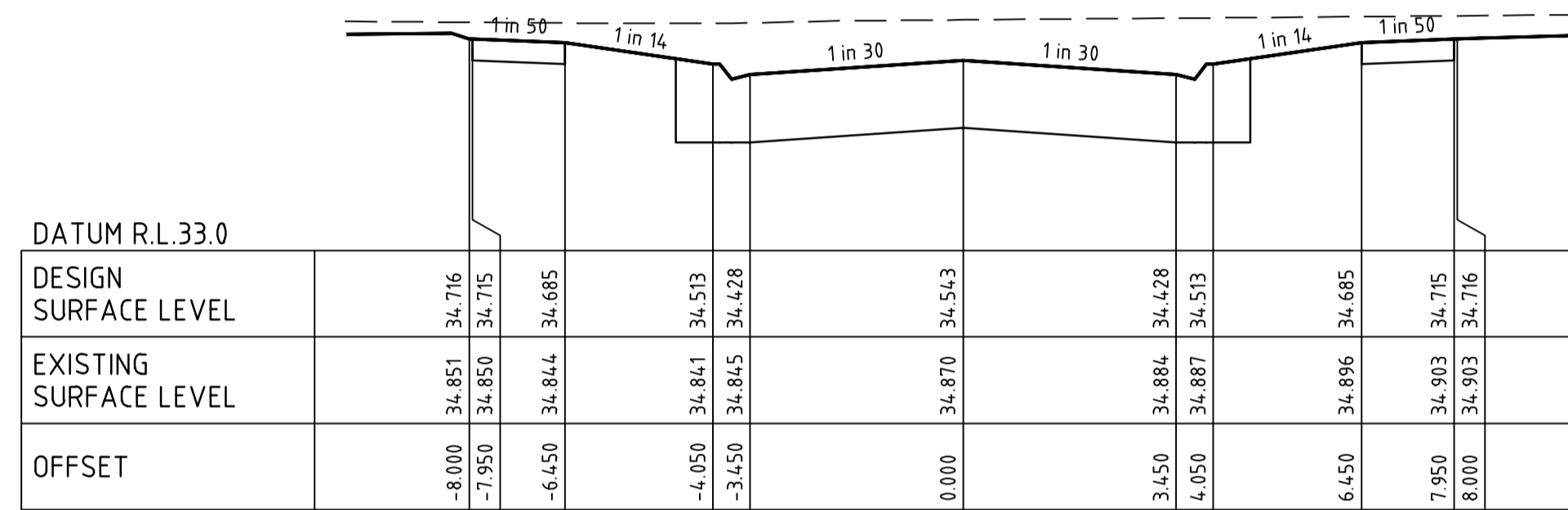
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**ARCADIA ESTATE
 STAGE 28
 ROAD CROSS SECTIONS
 CHARMING LOOP - SHEET 2
 CARDINA SHIRE COUNCIL
 SATTERLEY PROPERTY GROUP**

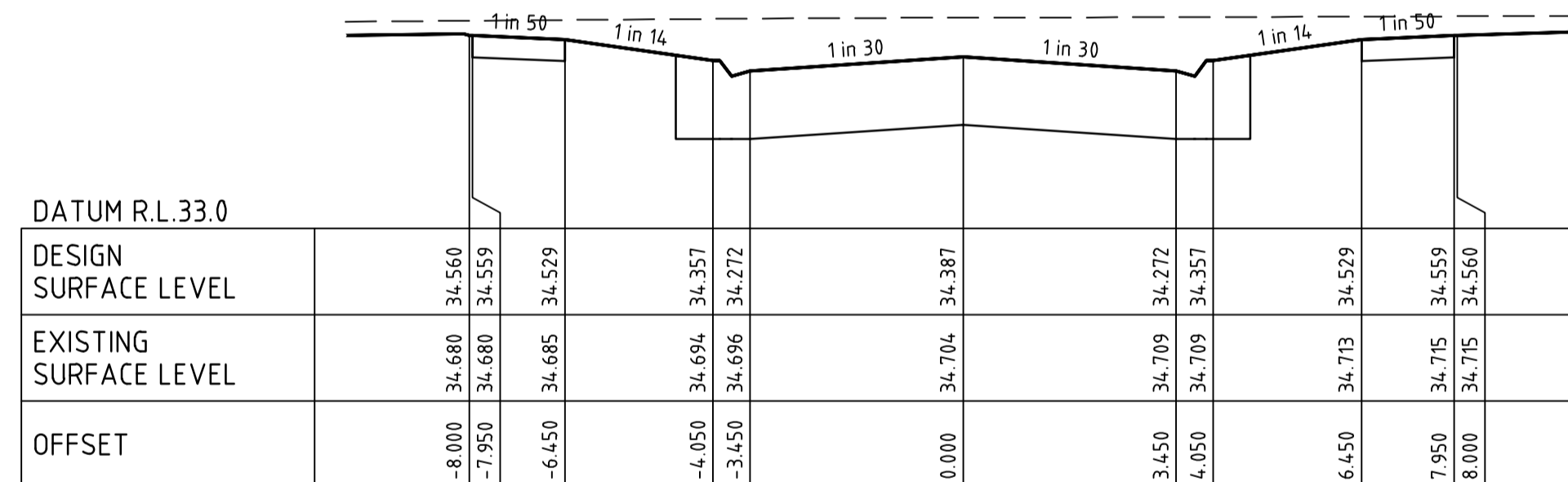
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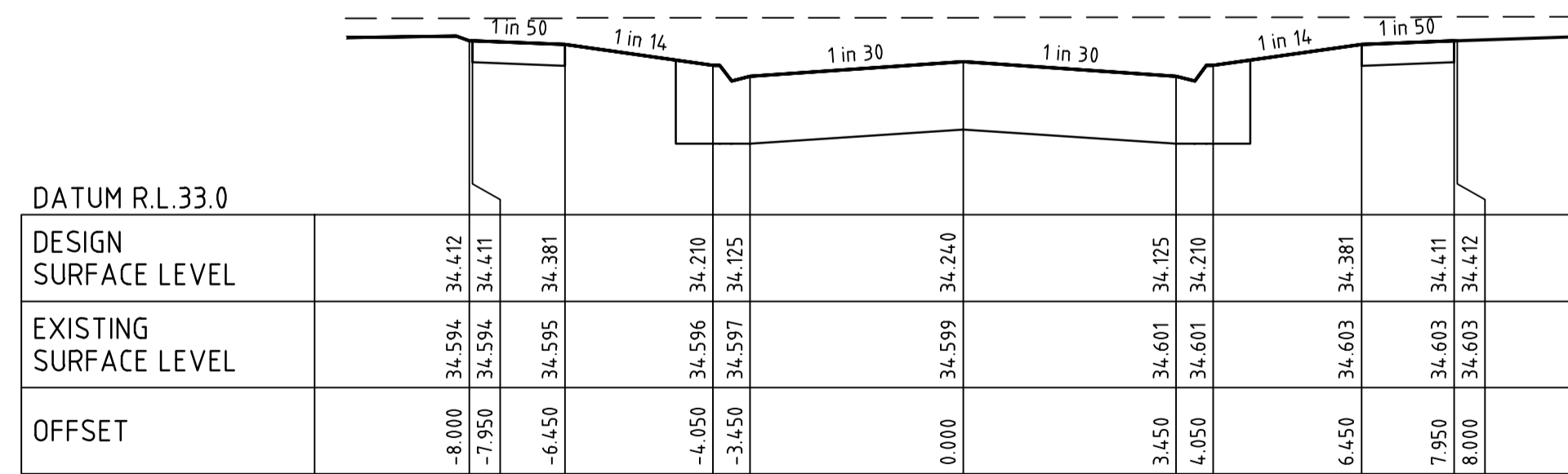
ENRIGHT ROAD CH 227.65



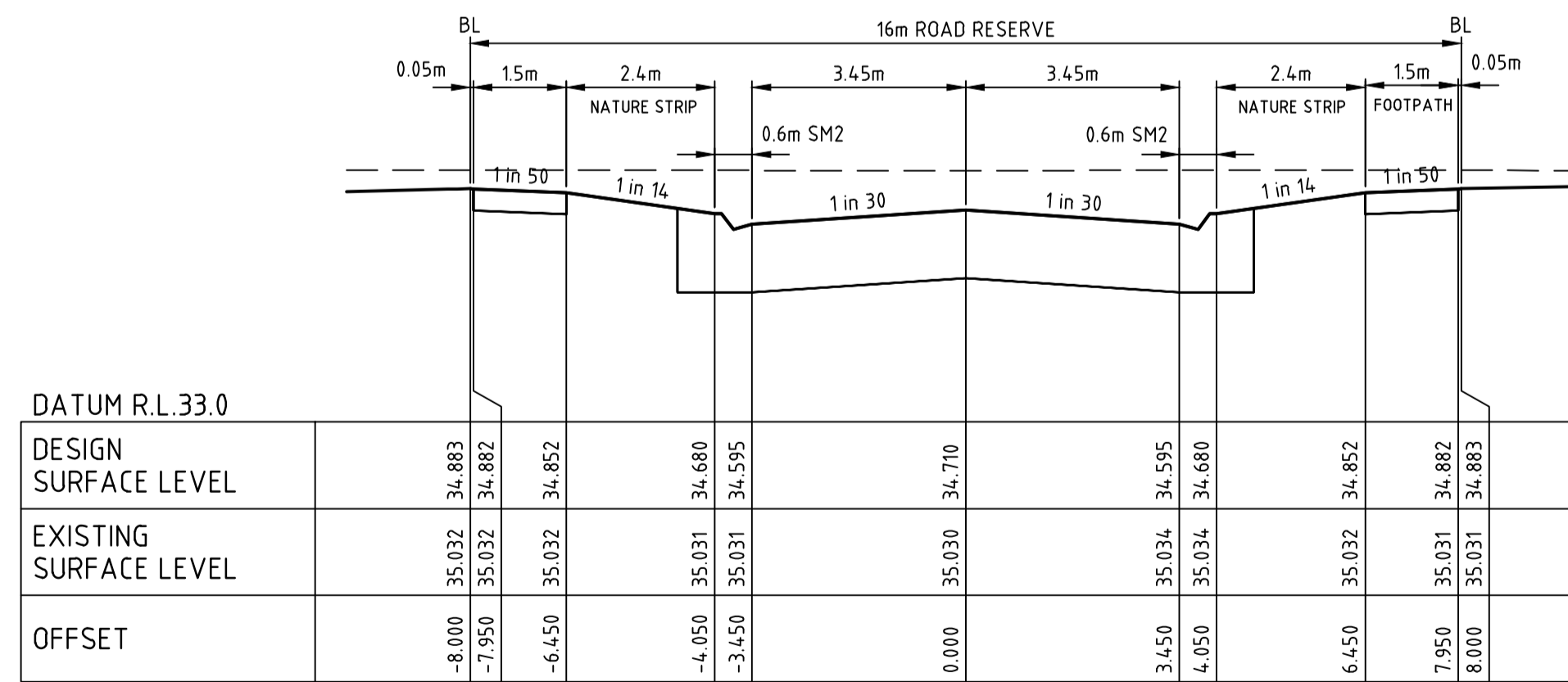
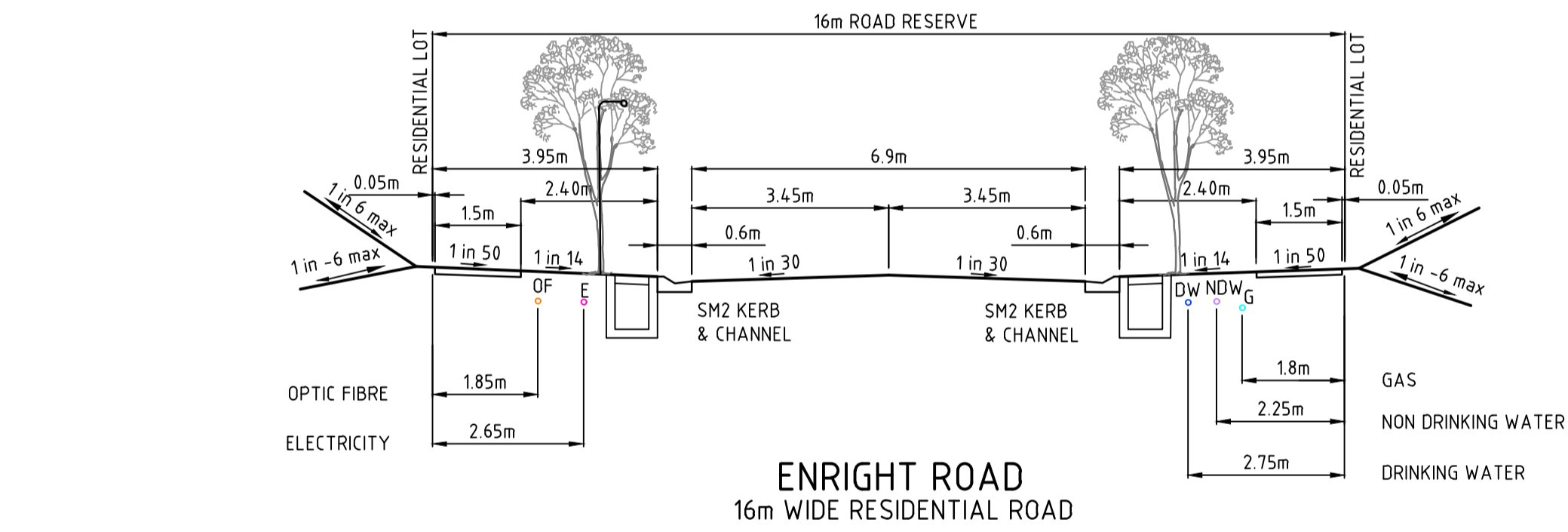
ENRIGHT ROAD CH 200.03



ENRIGHT ROAD CH 173.53



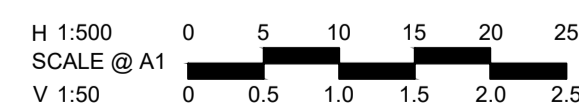
ENRIGHT ROAD CH 148.46



ENRIGHT ROAD CH 250.16

file name: 305268CR402.dwg layout name: CR402 plot date: 08/10/2021 14:46:46 PK Sheet 8 of 17 Sheets

0	ISSUED FOR CONSTRUCTION	P.C	01-10-21
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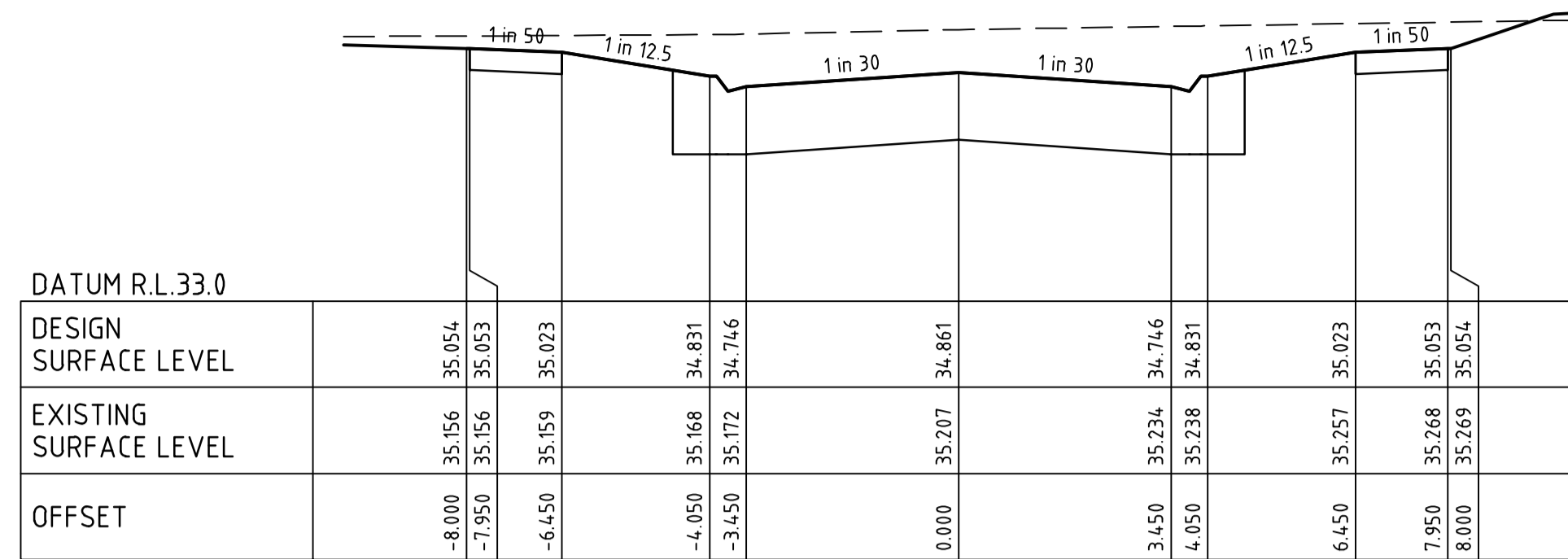
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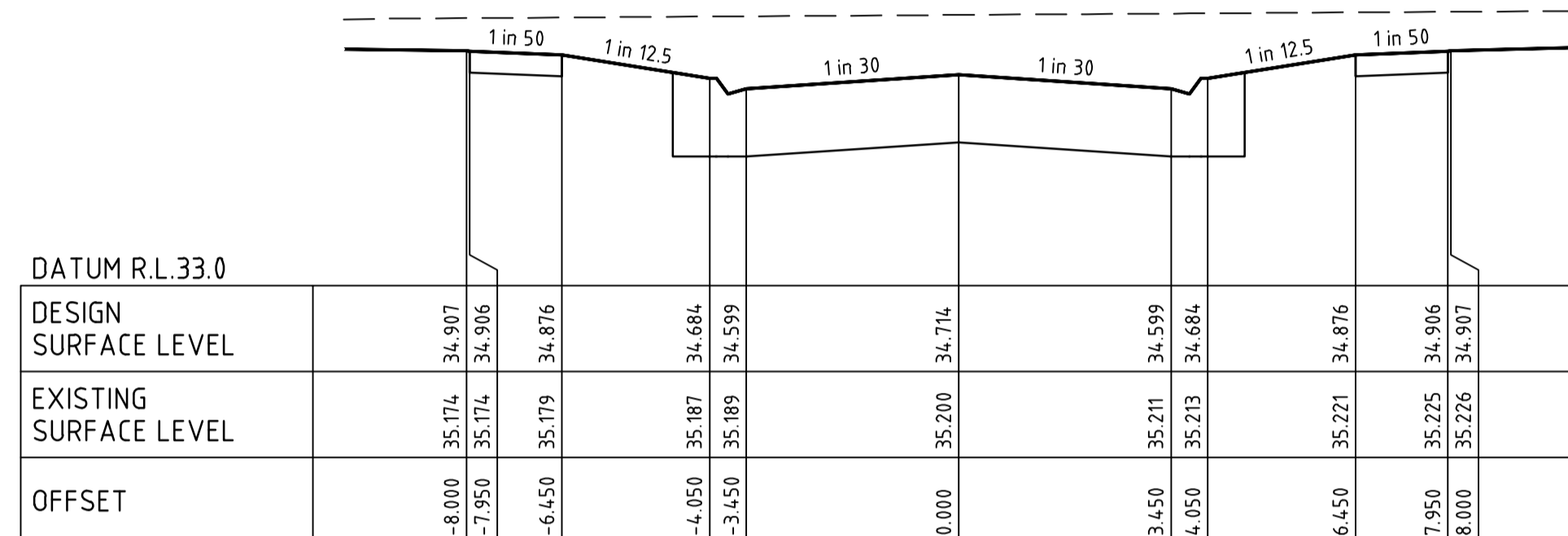
Checked
B. IBBS
Date
01-10-21

ARCADIA ESTATE
STAGE 28
ROAD CROSS SECTIONS
ENRIGHT ROAD
CARDINA SHIRE COUNCIL
SATTERLEY PROPERTY GROUP

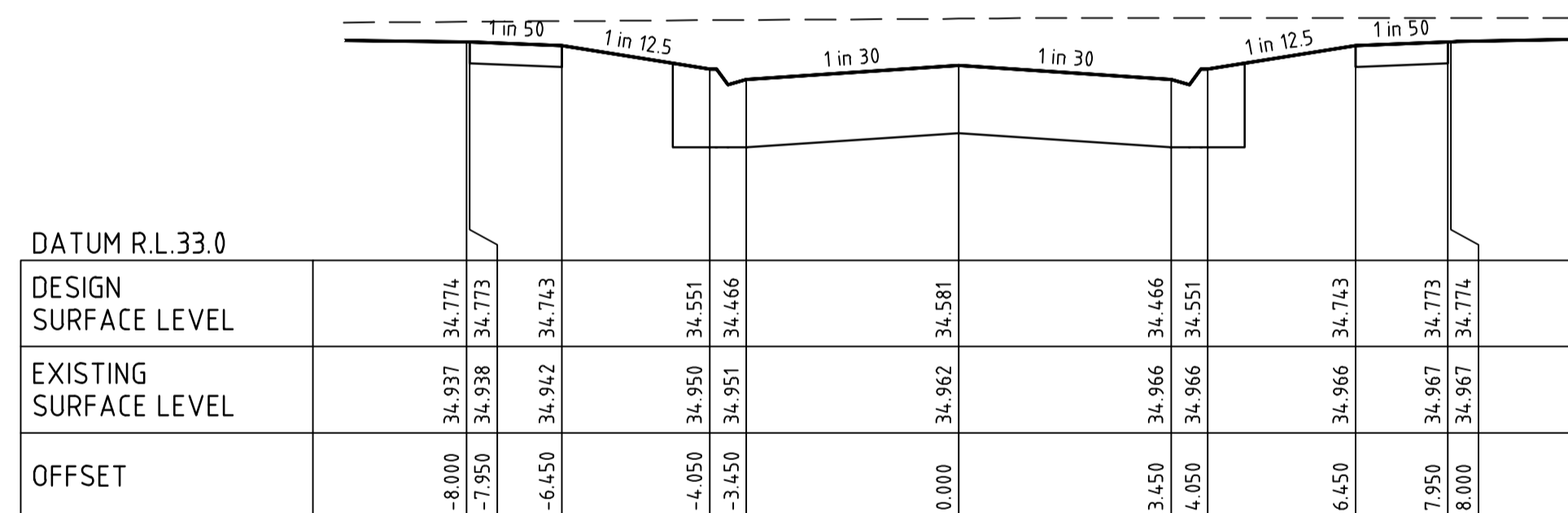
CONSTRUCTION Drg No 305268CR402 Rev 0



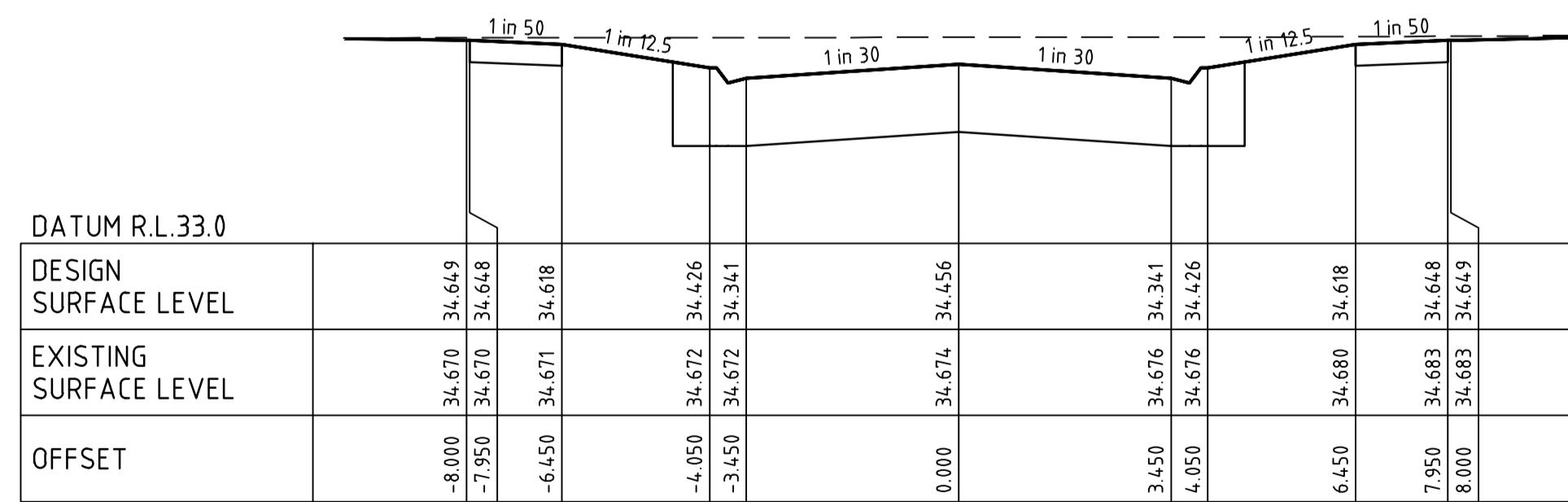
DRAGOMIR STREET CH 230.99



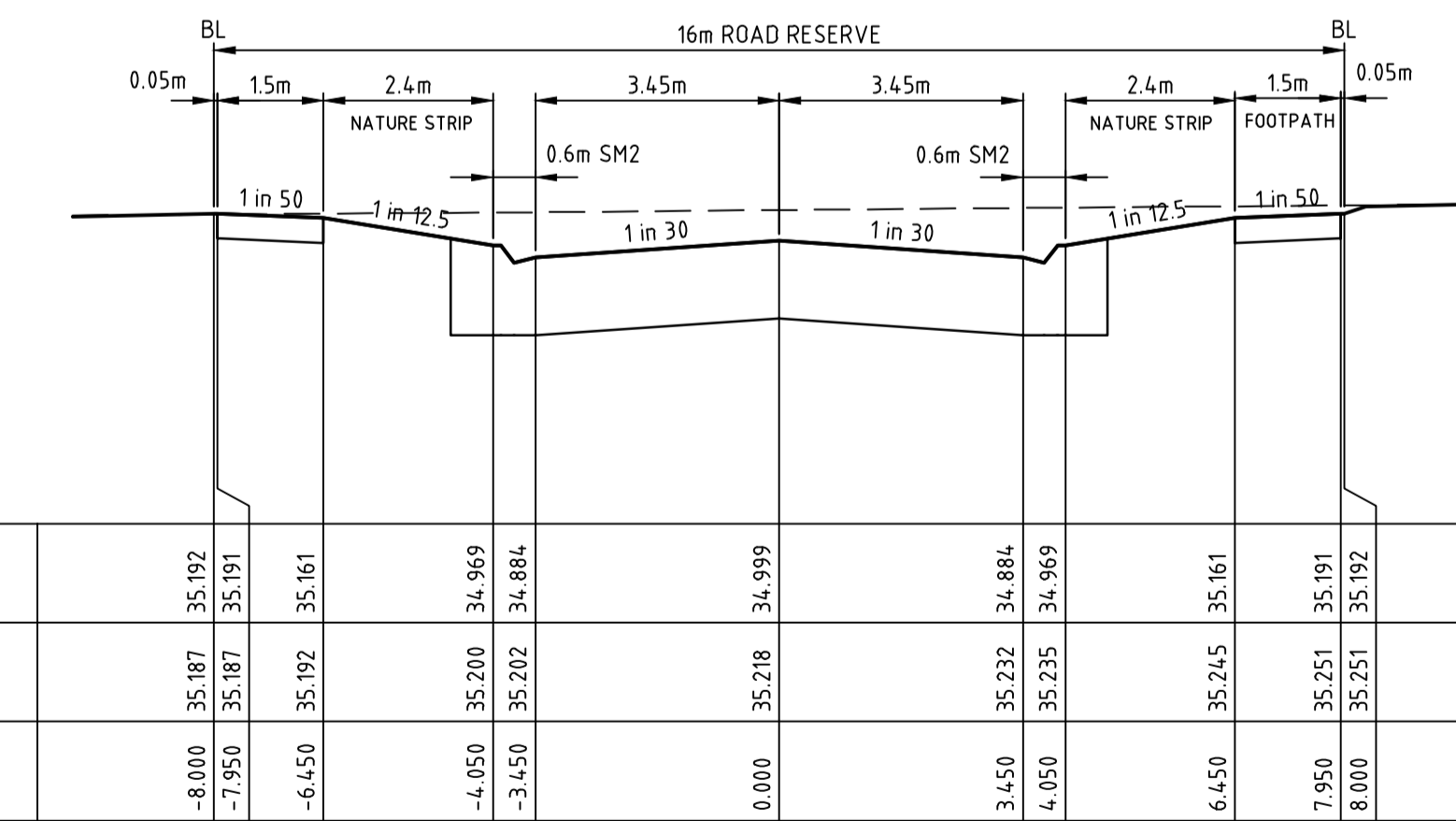
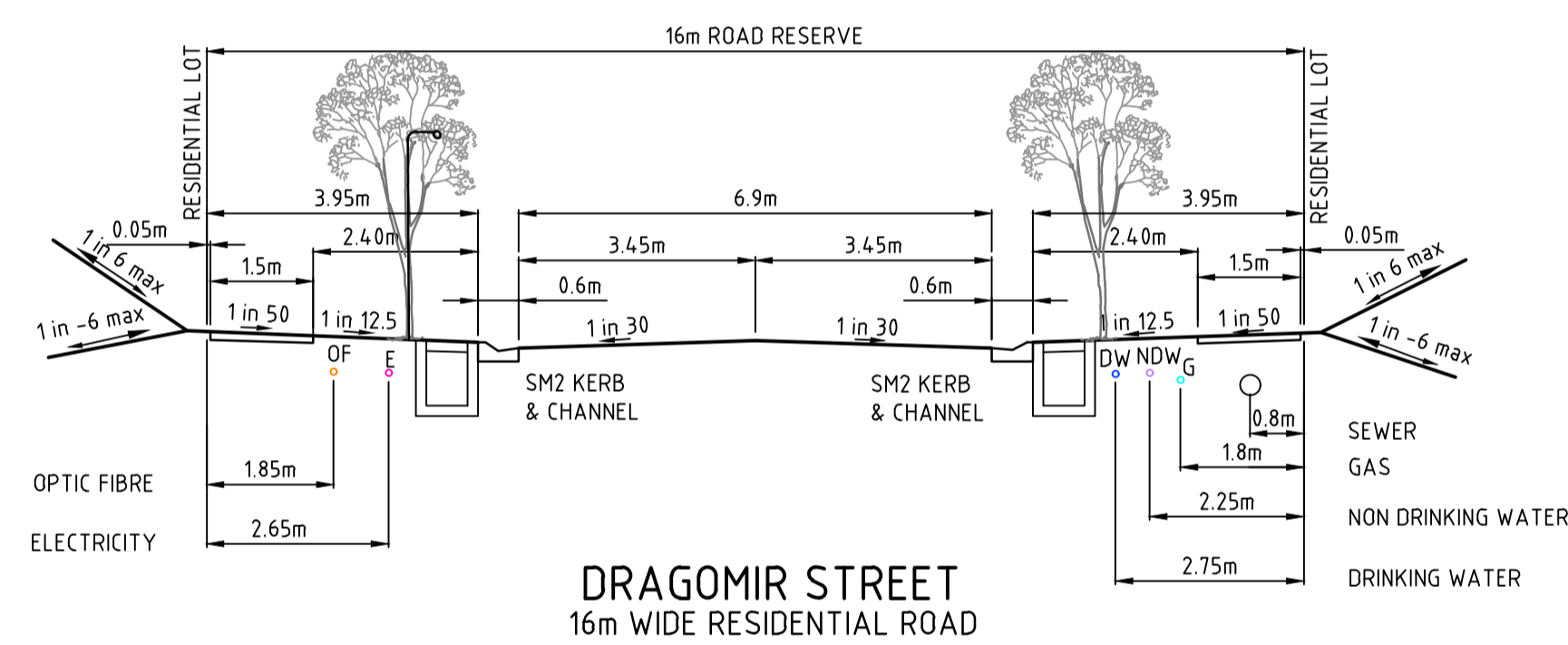
DRAGOMIR STREET CH 201.53



DRAGOMIR STREET CH 175.03



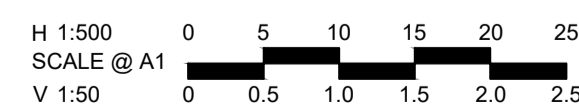
DRAGOMIR STREET CH 150.03



DRAGOMIR STREET CH 258.65

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Rev	Amendments	Approved	Date
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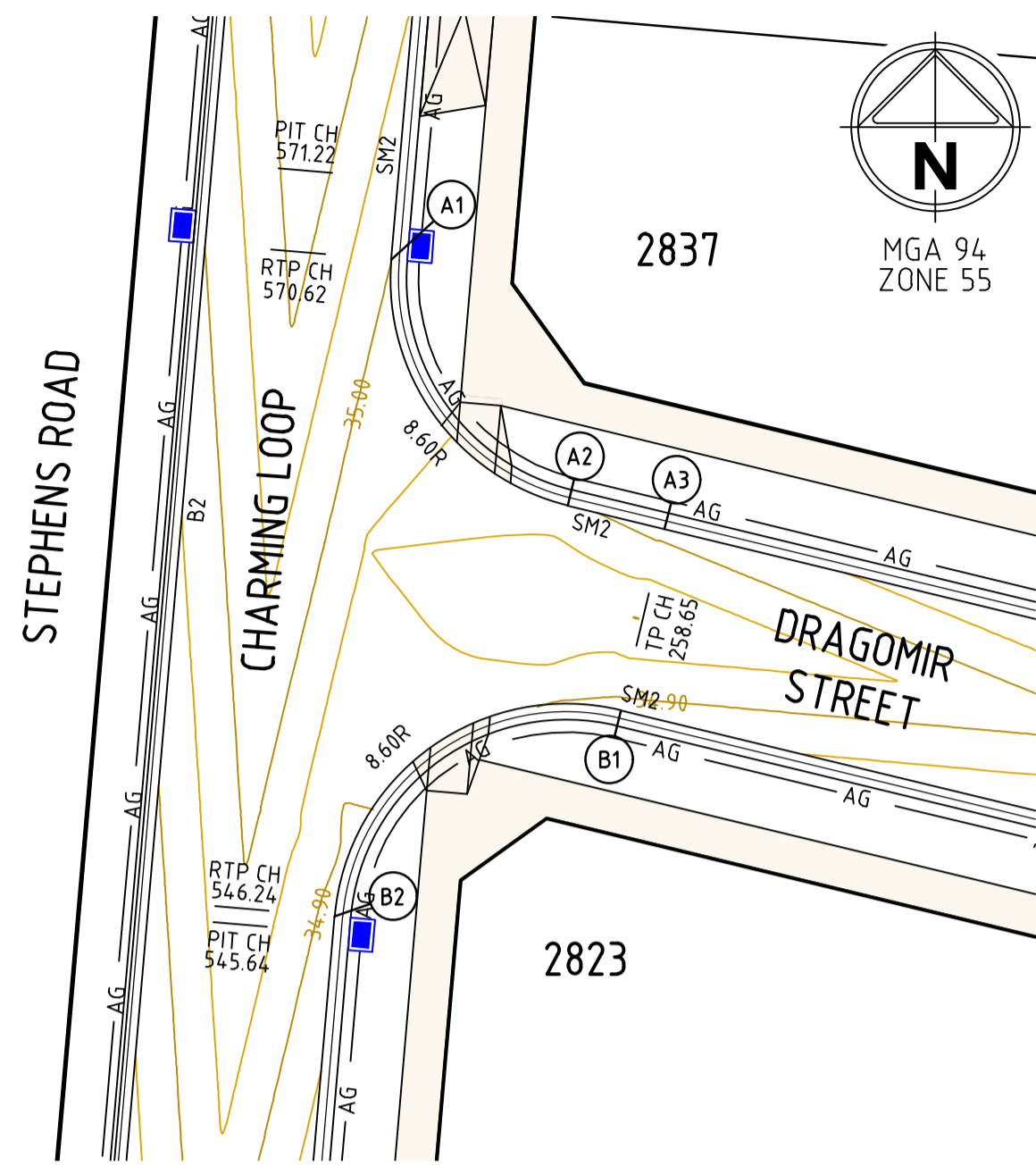
Designed
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P. CURNOW



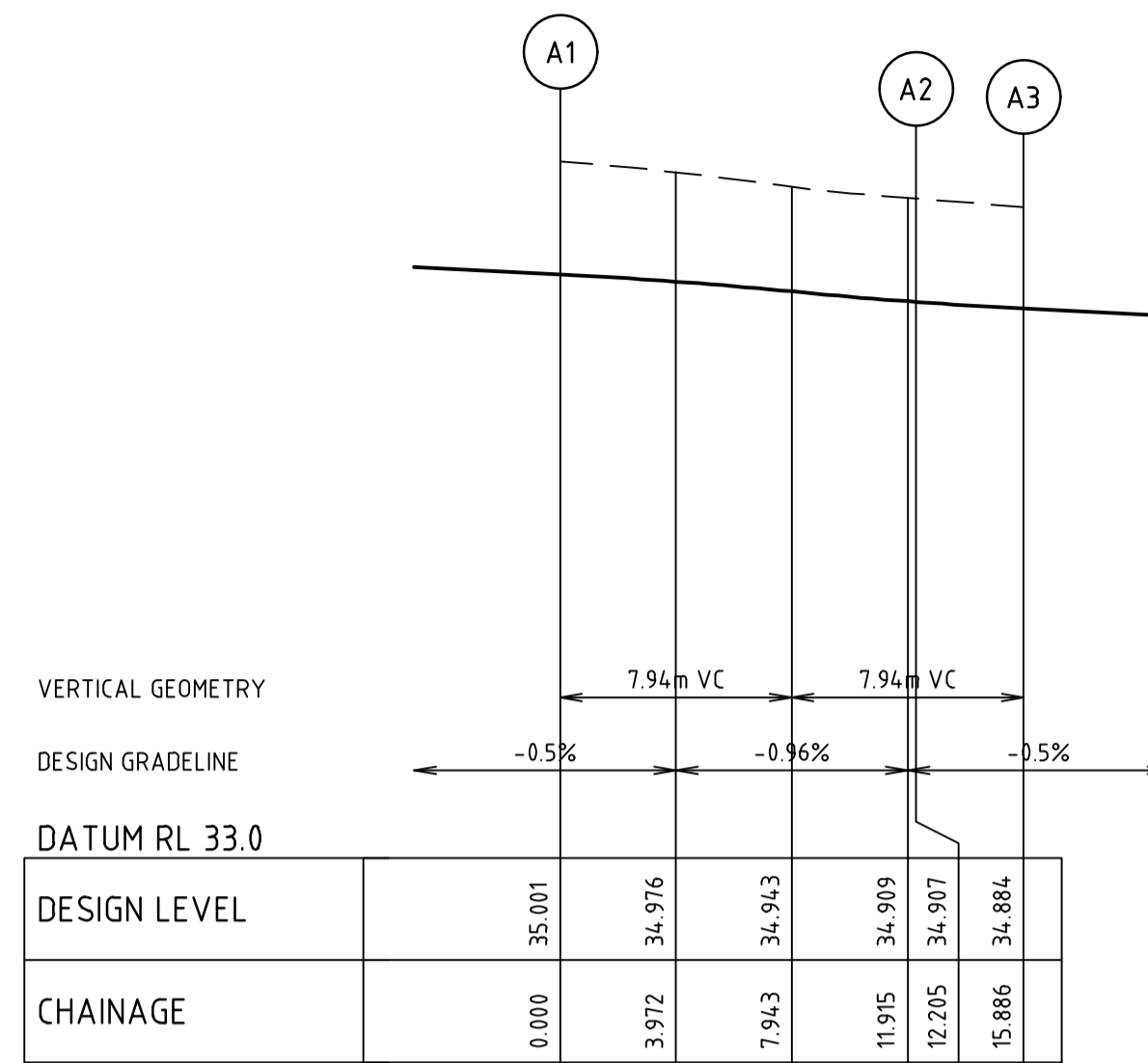
Checked
B. IBBS
Date
01-10-21

ARCADIA ESTATE
STAGE 28
ROAD CROSS SECTIONS
DRAGOMIR STREET
CARDINA SHIRE COUNCIL
SATTERLEY PROPERTY GROUP

CONSTRUCTION Drg No 305268CR403 Rev 0



CHARMING LOOP AND DRAGOMIR STREET
ALIGNMENT A & B

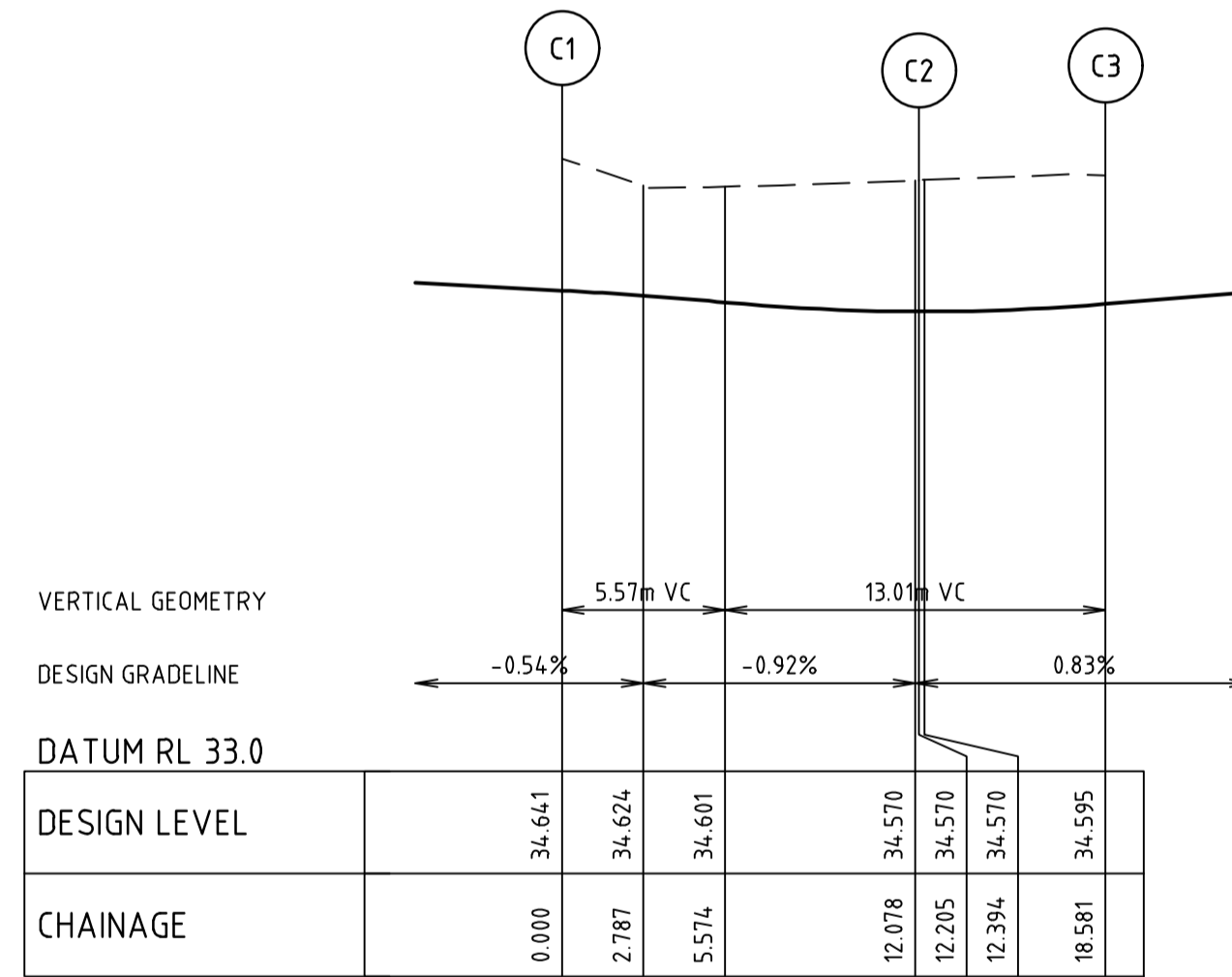


ALIGNMENT A

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL	CHAINAGE
A1	359107.360	5785119.318	35.001	0.000
1/4	359107.638	5785116.295	34.983	3.051
1/2	359108.948	5785113.557	34.959	6.103
3/4	359111.128	5785111.445	34.931	9.154
A2	359113.906	5785110.222	34.907	12.205
A3	359117.484	5785109.356	34.884	15.886

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	8.600	12.205	11.207	2.076	0.536

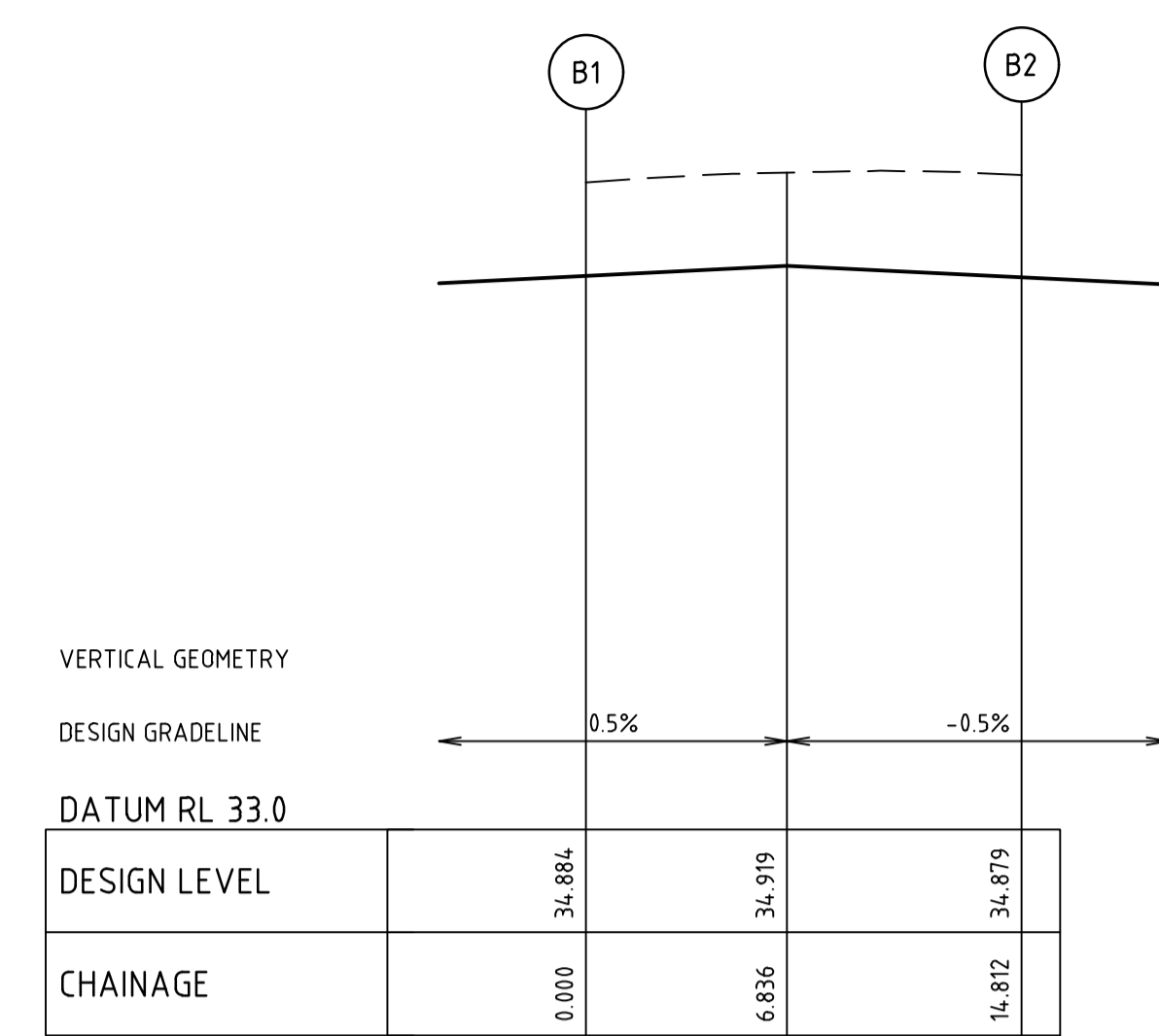


ALIGNMENT C

ALIGNMENT C

POINT NO	EASTING	NORTHING	RL	CHAINAGE
C1	359101.205	5785047.759	34.641	0.000
1/4	359101.482	5785044.736	34.622	3.051
1/2	359102.793	5785041.998	34.596	6.103
3/4	359104.973	5785039.886	34.577	9.154
C2	359107.751	5785038.663	34.570	12.205
C3	359113.947	5785037.164	34.595	18.581

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1-C2	8.600	12.205	11.207	2.076	0.536

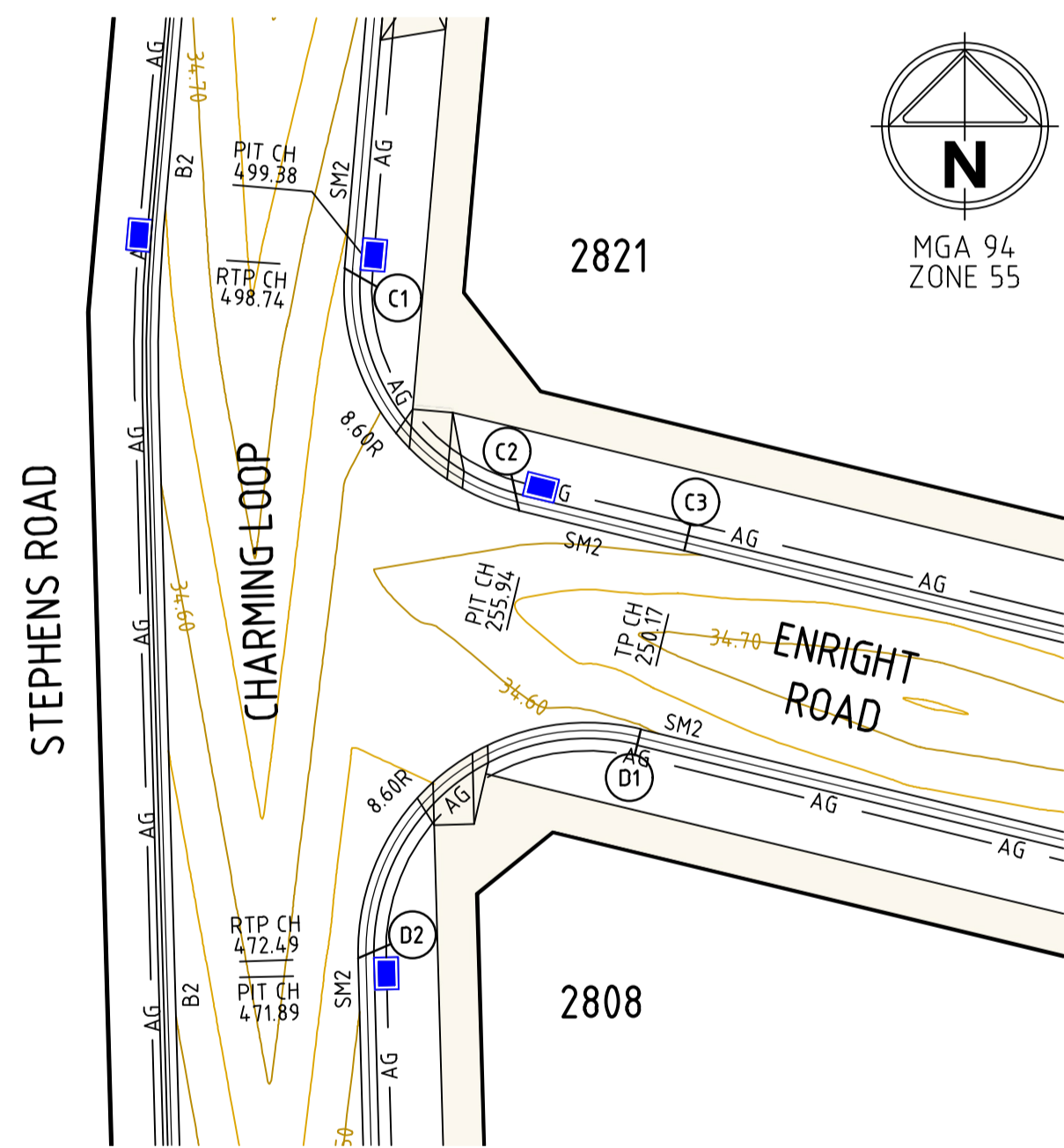


ALIGNMENT B

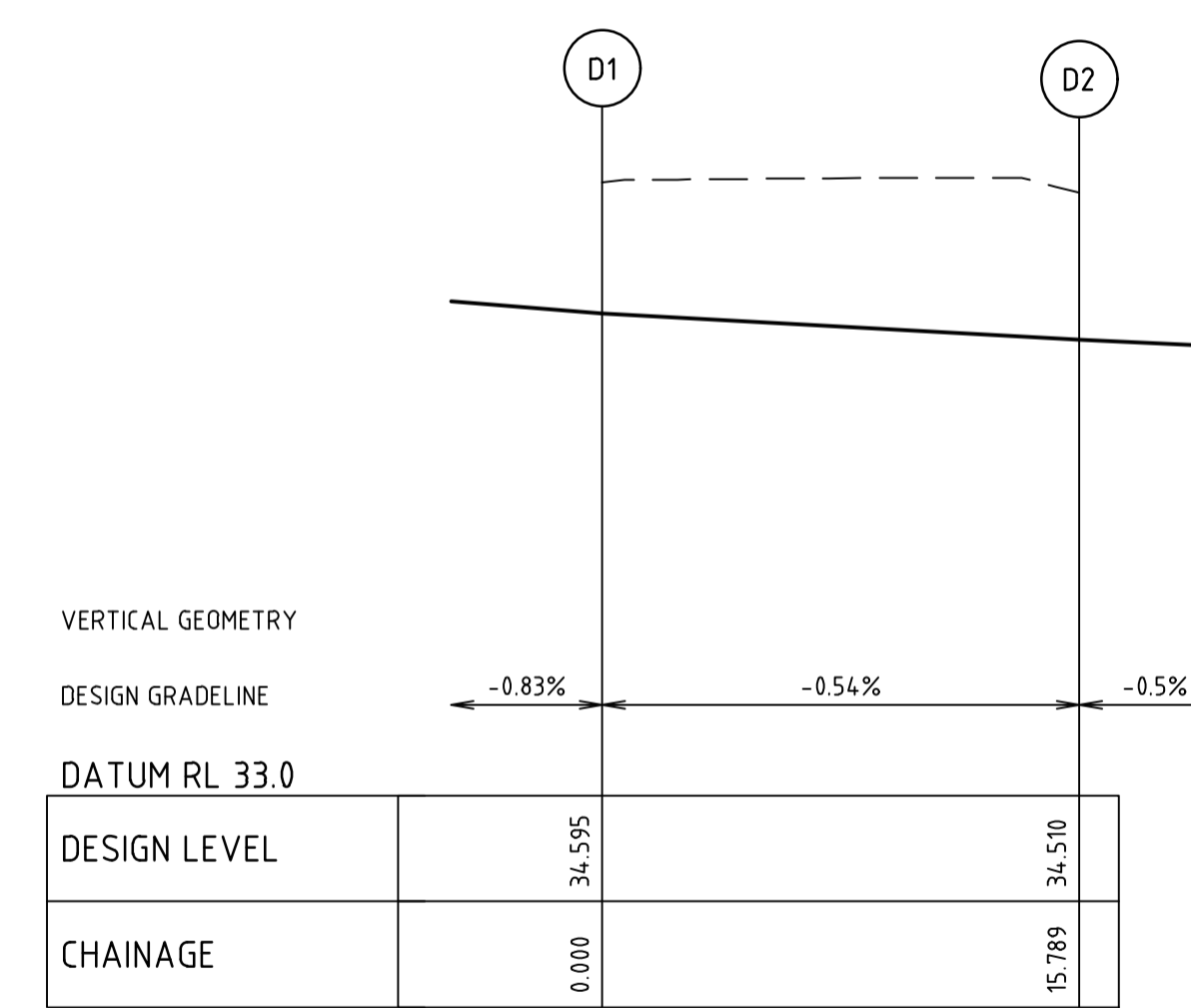
ALIGNMENT B

POINT NO	EASTING	NORTHING	RL	CHAINAGE
B1	359115.862	5785102.650	34.884	0.000
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1/2	359108.816	5785101.271	34.916	7.406
3/4	359106.361	5785098.537	34.897	11.109
B2	359105.271	5785095.028	34.879	14.812

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	8.600	14.812	13.048	2.997	0.785



CHARMING LOOP AND ENRIGHT ROAD
ALIGNMENT A & B

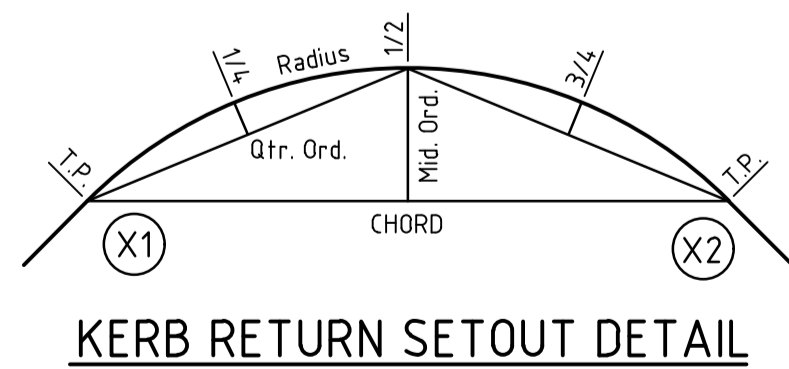


ALIGNMENT D

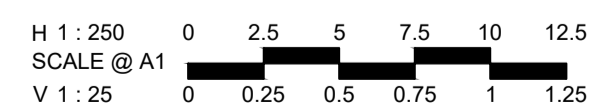
ALIGNMENT D

POINT NO	EASTING	NORTHING	RL	CHAINAGE
D1	359112.325	5785030.457	34.595	0.000
1/4	359108.412	5785030.488	34.574	3.947
1/2	359104.891	5785028.782	34.553	7.895
3/4	359102.490	5785025.693	34.531	11.842
D2	359101.706	5785021.859	34.510	15.789

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1-D2	8.600	15.789	13.663	3.376	0.890



KERB RETURN SETOUT DETAIL



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B. IBBS
Date
01-10-21

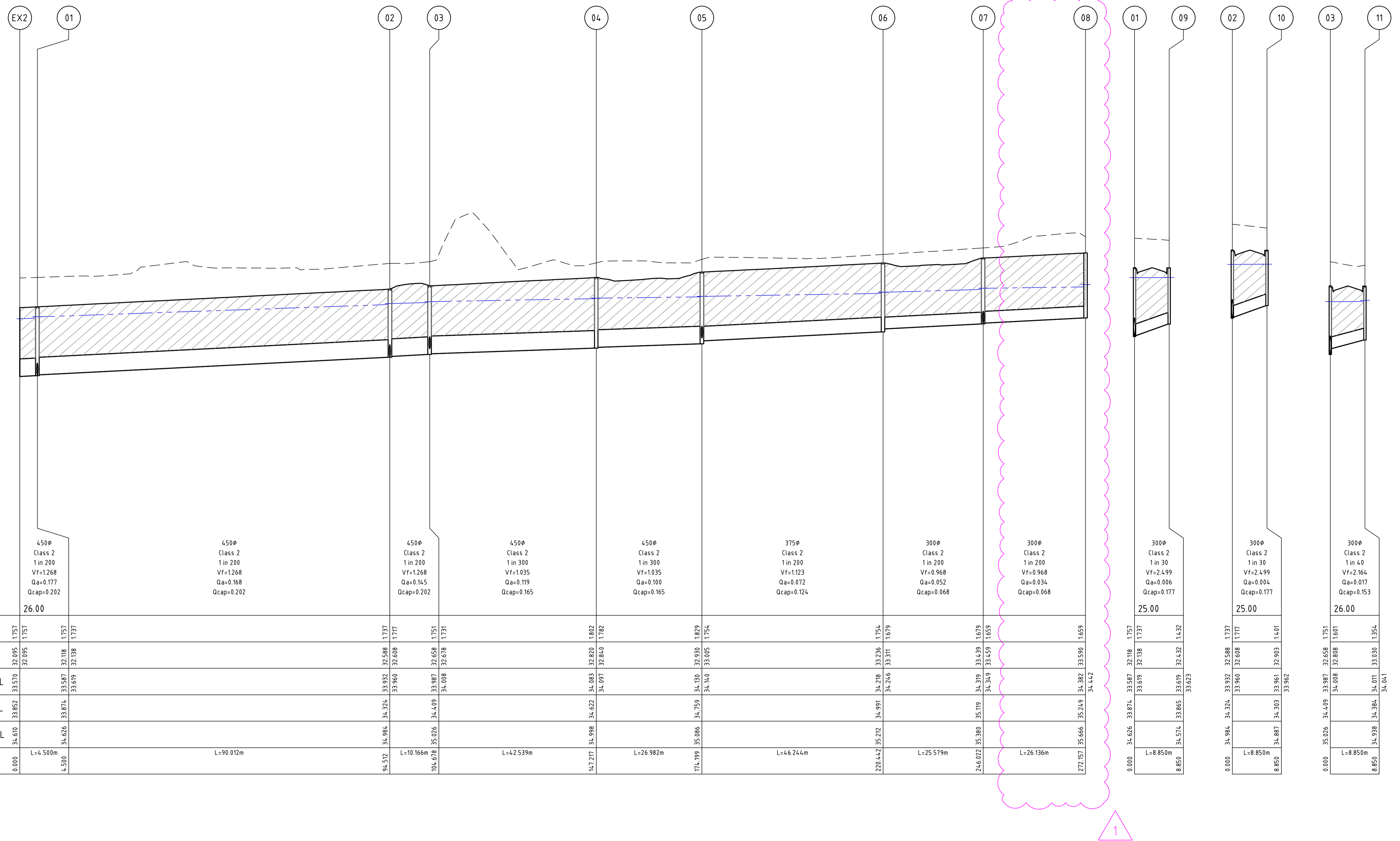
ARCADIA ESTATE
STAGE 28
INTERSECTION DETAILS

CARDINA SHIRE COUNCIL
SATTERLEY PROPERTY GROUP

CONSTRUCTION Drg No 305268CR500 Rev 0

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	P.C	01-10-21
A	PRELIMINARY ISSUE	P.C	29-04-20

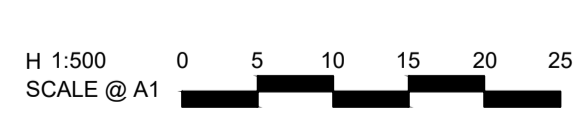
 CRUSHED ROCK BACKFILL



Station	Pipe Diameter	Pipe Class	Pipe Grade	Velocity (m/s)	Pipe Flow (m ³ /s)	Pipe Capacity (m ³ /s)	DATUM RL
0+00	450φ	Class 2	1 in 200	Vf=1.268	Qa=0.177	Qcap=0.202	26.00
0+500	450φ	Class 2	1 in 200	Vf=1.268	Qa=0.168	Qcap=0.202	26.00
1+000	450φ	Class 2	1 in 200	Vf=1.268	Qa=0.145	Qcap=0.202	26.00
1+500	450φ	Class 2	1 in 300	Vf=1.035	Qa=0.119	Qcap=0.165	26.00
2+000	375φ	Class 2	1 in 200	Vf=1.123	Qa=0.072	Qcap=0.124	26.00
2+60	300φ	Class 2	1 in 200	Vf=0.968	Qa=0.052	Qcap=0.068	26.00
2+86	300φ	Class 2	1 in 200	Vf=0.968	Qa=0.034	Qcap=0.068	26.00
3+000	300φ	Class 2	1 in 30	Vf=2.499	Qa=0.006	Qcap=0.177	25.00
3+050	300φ	Class 2	1 in 30	Vf=2.499	Qa=0.004	Qcap=0.177	25.00
3+100	300φ	Class 2	1 in 40	Vf=2.164	Qa=0.017	Qcap=0.153	26.00

file name: 305268CR600.dwg, layout name: CR600, plotted by: Darrin Sheehan, file location: G:\305268CR600\A1.dwg, plot date: 08/10/2024, L=4.5, P=4, Sheet 11 of 17 Sheets

Rev	Description	Approved	Date
1	AMENDED PIT 08		08-10-21
0	ISSUED FOR CONSTRUCTION		01-10-21
C	AMENDED PIT 11		05-02-21
B	AMENDED LONG SECTIONS		12-05-20
A	PRELIMINARY ISSUE		29-04-20
Rev	Amendments	Approved	Date









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 M. WRIGHT
 Authorised
 P. CURNOW



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 B. IBBS
 Date
 01-10-21

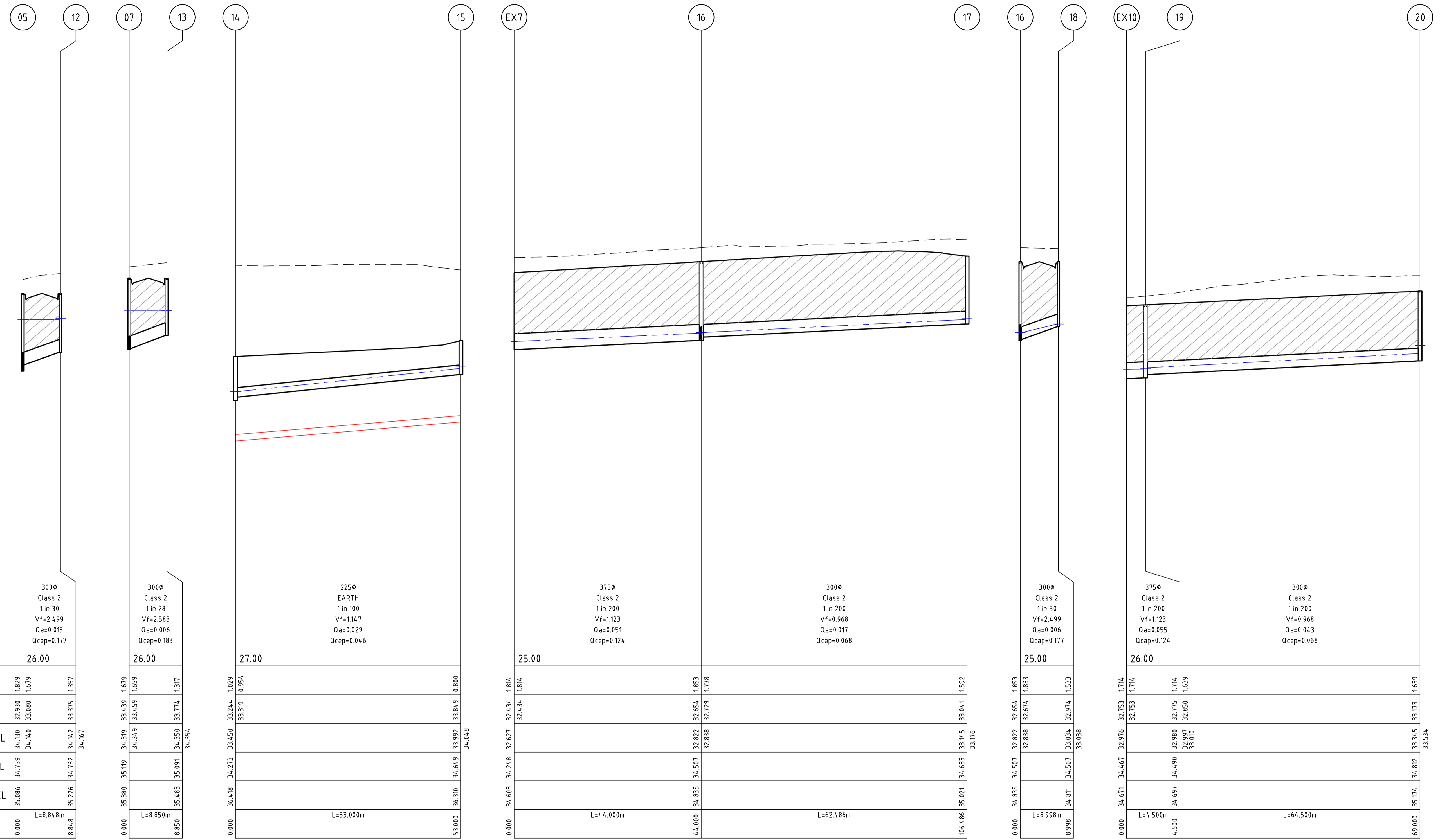
ARCADIA ESTATE
STAGE 28
DRAINAGE LONG SECTIONS

CARDINA SHIRE COUNCIL
 SATTERLEY PROPERTY GROUP

CONSTRUCTION

Drg No **305268CR600** Rev **1**

 CRUSHED ROCK BACKFILL



Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM RL	26.00
DEPTH TO INVERT	0.000 35.086 34.759 34.530 32.930 1.829 8.848 35.226 34.732 34.462 33.375 1.357 34.167
DESIGN INVERT LEVEL	34.530 33.080 1.679
HYDRAULIC GRADE LEVEL	34.140 33.080 1.679
FINISHED SURFACE LEVEL	34.759 34.530 32.930 1.829
EXISTING SURFACE LEVEL	35.086 34.759 34.530 32.930 1.829
CHAINAGE	L=8.848m

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM RL	26.00
DEPTH TO INVERT	0.000 35.380 35.119 34.319 33.439 1.679 8.850 35.483 35.091 34.350 33.774 1.317 34.354
DESIGN INVERT LEVEL	34.319 33.439 1.679
HYDRAULIC GRADE LEVEL	34.319 33.439 1.679
FINISHED SURFACE LEVEL	35.119 34.319 33.439 1.679
EXISTING SURFACE LEVEL	35.380 35.119 34.319 33.439 1.679
CHAINAGE	L=8.850m

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM RL	27.00
DEPTH TO INVERT	0.000 36.418 34.273 33.450 33.244 1.029 33.319 0.954
DESIGN INVERT LEVEL	33.244 1.029
HYDRAULIC GRADE LEVEL	33.244 1.029
FINISHED SURFACE LEVEL	34.273 33.450 33.244 1.029
EXISTING SURFACE LEVEL	36.418 34.273 33.450 33.244 1.029
CHAINAGE	L=53.000m

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM RL	25.00
DEPTH TO INVERT	0.000 34.603 34.248 32.627 32.434 1.874 32.434 1.874
DESIGN INVERT LEVEL	32.434 1.874
HYDRAULIC GRADE LEVEL	32.434 1.874
FINISHED SURFACE LEVEL	34.248 32.627 32.434 1.874
EXISTING SURFACE LEVEL	34.603 34.248 32.627 32.434 1.874
CHAINAGE	L=44.000m

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM RL	25.00
DEPTH TO INVERT	0.000 34.603 34.248 32.627 32.434 1.874 32.434 1.874
DESIGN INVERT LEVEL	32.434 1.874
HYDRAULIC GRADE LEVEL	32.434 1.874
FINISHED SURFACE LEVEL	34.248 32.627 32.434 1.874
EXISTING SURFACE LEVEL	34.603 34.248 32.627 32.434 1.874
CHAINAGE	L=62.486m

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM RL	25.00
DEPTH TO INVERT	0.000 34.835 34.507 32.822 32.654 1.853 32.838 32.729 1.778
DESIGN INVERT LEVEL	32.654 1.853
HYDRAULIC GRADE LEVEL	32.654 1.853
FINISHED SURFACE LEVEL	34.507 32.822 32.654 1.853
EXISTING SURFACE LEVEL	34.835 34.507 32.822 32.654 1.853
CHAINAGE	L=62.486m

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM RL	25.00
DEPTH TO INVERT	0.000 34.835 34.507 32.822 32.654 1.853 32.838 32.729 1.778
DESIGN INVERT LEVEL	32.654 1.853
HYDRAULIC GRADE LEVEL	32.654 1.853
FINISHED SURFACE LEVEL	34.507 32.822 32.654 1.853
EXISTING SURFACE LEVEL	34.835 34.507 32.822 32.654 1.853
CHAINAGE	L=62.486m

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM RL	25.00
DEPTH TO INVERT	0.000 34.835 34.507 32.822 32.654 1.853 32.838 32.729 1.778
DESIGN INVERT LEVEL	32.654 1.853
HYDRAULIC GRADE LEVEL	32.654 1.853
FINISHED SURFACE LEVEL	34.507 32.822 32.654 1.853
EXISTING SURFACE LEVEL	34.835 34.507 32.822 32.654 1.853
CHAINAGE	L=62.486m

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM RL	25.00
DEPTH TO INVERT	0.000 34.835 34.507 32.822 32.654 1.853 32.838 32.729 1.778
DESIGN INVERT LEVEL	32.654 1.853
HYDRAULIC GRADE LEVEL	32.654 1.853
FINISHED SURFACE LEVEL	34.507 32.822 32.654 1.853
EXISTING SURFACE LEVEL	34.835 34.507 32.822 32.654 1.853
CHAINAGE	L=62.486m

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM RL	25.00
DEPTH TO INVERT	0.000 34.835 34.507 32.822 32.654 1.853 32.838 32.729 1.778
DESIGN INVERT LEVEL	32.654 1.853
HYDRAULIC GRADE LEVEL	32.654 1.853
FINISHED SURFACE LEVEL	34.507 32.822 32.654 1.853
EXISTING SURFACE LEVEL	34.835 34.507 32.822 32.654 1.853
CHAINAGE	L=62.486m

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM RL	26.00
DEPTH TO INVERT	0.000 34.617 34.467 32.976 32.753 1.714 32.753 1.714
DESIGN INVERT LEVEL	32.753 1.714
HYDRAULIC GRADE LEVEL	32.753 1.714
FINISHED SURFACE LEVEL	34.467 32.976 32.753 1.714
EXISTING SURFACE LEVEL	34.617 34.467 32.976 32.753 1.714
CHAINAGE	L=4.500m

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

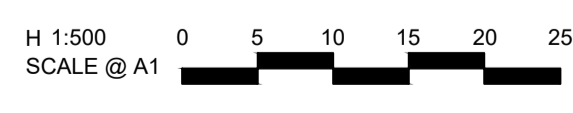
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DEPTH TO INVERT	0.000 34.617 34.467 32.976 32.753 1.714 32.753 1.714
DESIGN INVERT LEVEL	32.753 1.714
HYDRAULIC GRADE LEVEL	32.753 1.714
FINISHED SURFACE LEVEL	34.467 32.976 32.753 1.714
EXISTING SURFACE LEVEL	34.617 34.467 32.976 32.753 1.714
CHAINAGE	L=4.500m

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m³/s)
Pipe Capacity (m³/s)

DATUM RL	26.00
DEPTH TO INVERT	0.000 34.617 34.467 32.976 32.753 1.714 32.753 1.714
DESIGN INVERT LEVEL	32.753 1.714
HYDRAULIC GRADE LEVEL	32.753 1.714
FINISHED SURFACE LEVEL	34.467 32.976 32.753 1.714
EXISTING SURFACE LEVEL	34.617 34.467 32.976 32.753 1.714
CHAINAGE	L=64.500m

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0	ISSUED FOR CONSTRUCTION	P.C	01-10-21
C	AMENDED PITS 12 & 13	P.C	05-02-21
B	AMENDED LONG SECTIONS	P.C	12-05-20
A	PRELIMINARY ISSUE	P.C	29-04-20
Rev	Amendments	Approved	Date



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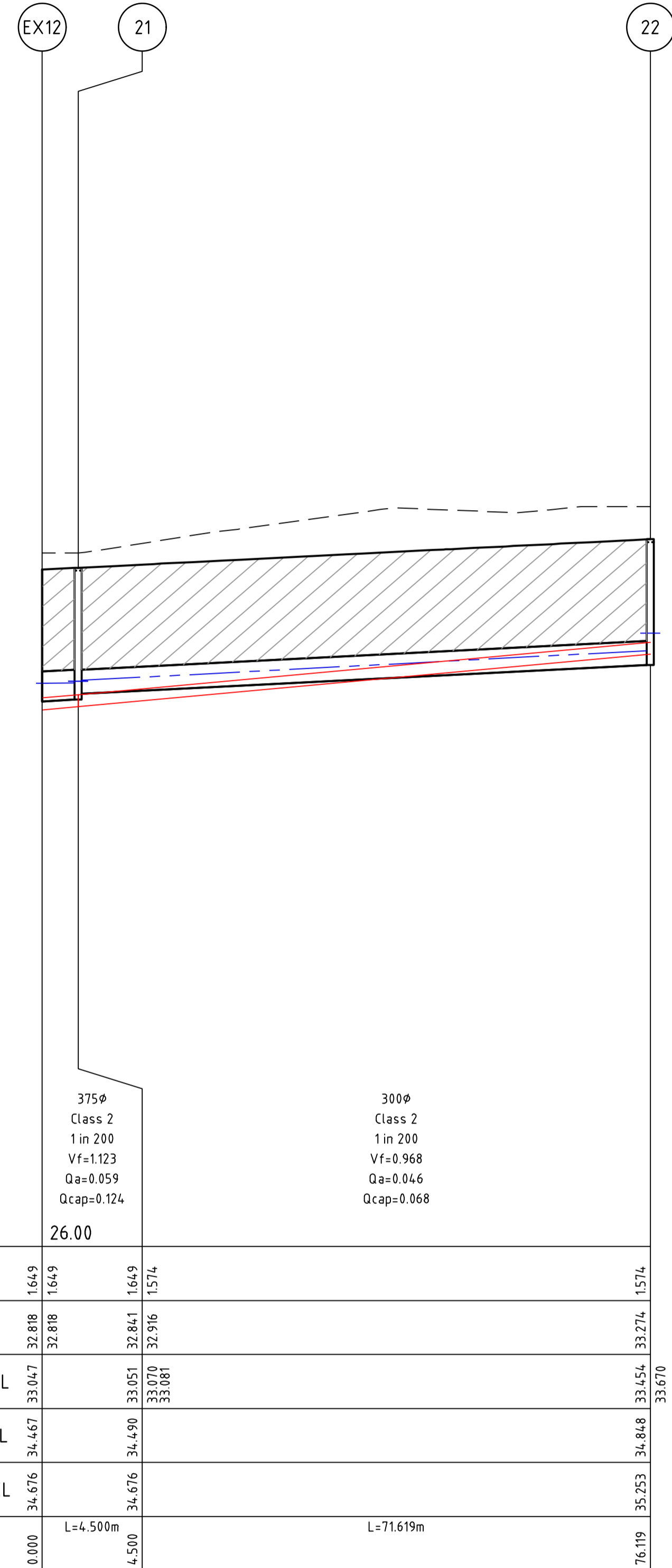
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B. IBBS
Date
01-10-21

**ARCADIA ESTATE
STAGE 28
DRAINAGE LONG SECTIONS**

CARDINA SHIRE COUNCIL
SATTERLEY PROPERTY GROUP

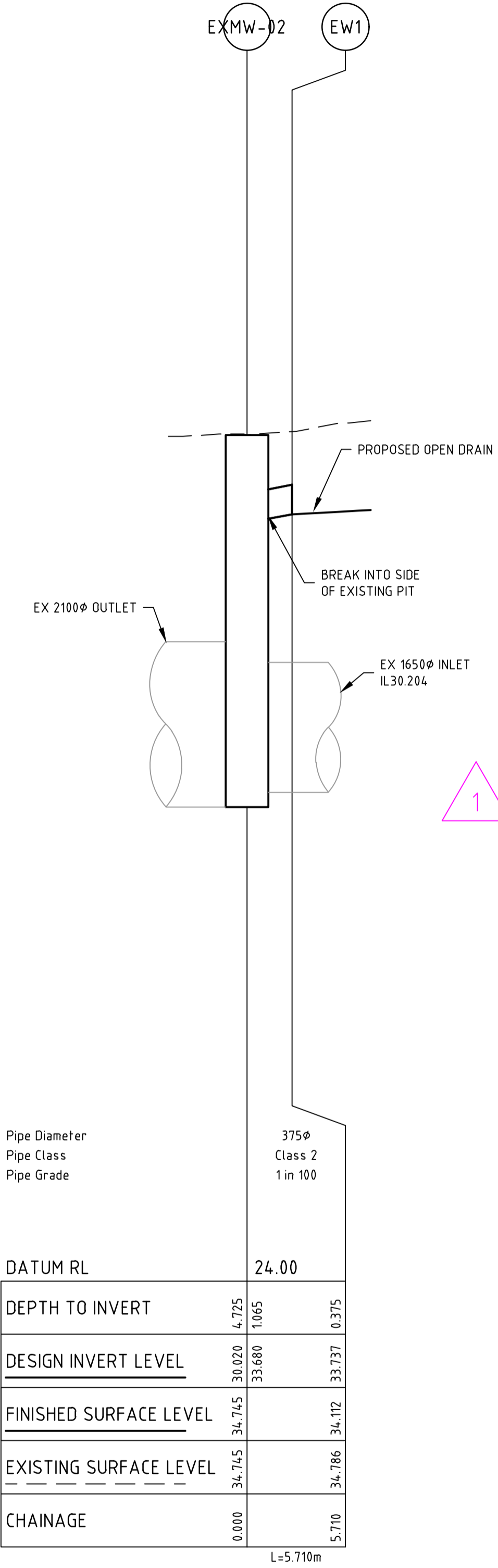
CONSTRUCTION Drg No **305268CR601** Rev **0**

 CRUSHED ROCK BACKFILL



Pipe Diameter 375φ
 Pipe Class Class 2
 Pipe Grade 1 in 200
 Velocity (m/s) Vf=1.123
 Pipe Flow (m3/s) Qa=0.059
 Pipe Capacity (m3/s) Qcap=0.124

DEPTH TO INVERT	1.649	1.649	1.649	1.574
DESIGN INVERT LEVEL	32.818	32.818	32.841	33.274
HYDRAULIC GRADE LEVEL	33.047	33.051	33.070	33.670
FINISHED SURFACE LEVEL	34.467	34.490	34.490	34.848
EXISTING SURFACE LEVEL	34.676	34.676	34.676	35.253
CHAINAGE	0.000	L=4.500m	4.500	L=71.619m



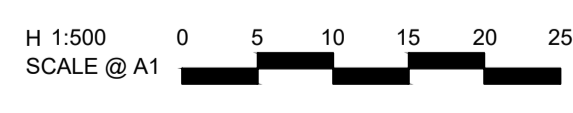
Pipe Diameter 375φ
 Pipe Class Class 2
 Pipe Grade 1 in 100

DEPTH TO INVERT	4.725	1.065	0.375
DESIGN INVERT LEVEL	30.020	33.680	33.737
FINISHED SURFACE LEVEL	34.745	34.745	34.112
EXISTING SURFACE LEVEL	34.745	34.786	34.112
CHAINAGE	0.000	L=5.710m	5.710

PIT NAME	TYPE	COORDINATES		INTERNAL		INLET		OUTLET		PIT		REMARKS
		EASTING	NORTHING	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
EX2	ENDPIPE	359202.399	5784949.329	0	0	450	32.095			33.852	1.757	
01	GRATED SIDE ENTRY PIT	359198.018	5784950.356	600	900	450	32.138	450	32.118	33.874	1.757	AS PER EDCM 603
02	GRATED SIDE ENTRY PIT	359110.379	5784970.889	600	900	450	32.608	450	32.588	34.324	1.737	AS PER EDCM 603
03	GRATED SIDE ENTRY PIT	359103.954	5784978.767	600	900	450	32.678	450	32.658	34.409	1.751	AS PER EDCM 603
04	GRATED SIDE ENTRY PIT	359102.772	5785021.289	600	900	450	32.840	450	32.820	34.622	1.802	AS PER EDCM 603
05	GRATED SIDE ENTRY PIT	359102.302	5785048.267	600	900	375	33.005	450	32.930	34.759	1.829	AS PER EDCM 603
06	GRATED SIDE ENTRY PIT	359106.266	5785094.340	600	900	300	33.311	375	33.236	34.991	1.754	AS PER EDCM 603
07	GRATED SIDE ENTRY PIT	359108.458	5785119.826	600	900	300	33.459	300	33.439	35.119	1.679	AS PER EDCM 603
08	GRATED JUNCTION PIT	359110.698	5785145.865	600	900			300	33.590	35.249	1.659	AS PER EDCM 605 W/ GRATED LID
09	GRATED SIDE ENTRY PIT	359195.999	5784941.739	600	900			300	32.432	33.865	1.432	AS PER EDCM 601
10	GRATED SIDE ENTRY PIT	359108.361	5784962.272	600	900			300	32.903	34.303	1.401	AS PER EDCM 601
11	GRATED SIDE ENTRY PIT	359095.107	5784978.521	600	900			300	33.030	34.384	1.354	AS PER EDCM 601
12	GRATED SIDE ENTRY PIT	359093.487	5785049.023	600	900			300	33.375	34.732	1.357	AS PER EDCM 601
13	GRATED SIDE ENTRY PIT	359099.641	5785120.584	600	900			300	33.774	35.091	1.317	AS PER EDCM 601
14	JUNCTION PIT	359204.432	5784976.844	600	900	225	33.319			34.273	1.029	CONSTRUCT PIT OVER EXISTING END PIPE. AS PER EDCM 605
15	JUNCTION PIT	359152.918	5784989.307	600	900			225	33.849	34.649	0.800	AS PER EDCM 605
EX7	ENDPIPE	359212.080	5785014.498	0	0	375	32.434			34.248	1.814	CONNECT INTO EXISTING END PIPE
16	GRATED SIDE ENTRY PIT	359169.314	5785024.847	600	900	300	32.729	375	32.654	34.507	1.853	AS PER EDCM 603
17	GRATED SIDE ENTRY PIT	359108.581	5785039.542	600	900			300	33.041	34.633	1.592	AS PER EDCM 603
18	GRATED SIDE ENTRY PIT	359167.198	5785016.101	600	900			300	32.974	34.507	1.533	AS PER EDCM 603
EX10	ENDPIPE	359220.209	5785076.324	0	0	375	32.753			34.467	1.714	CONNECT INTO EXISTING END PIPE
19	GRATED SIDE ENTRY PIT	359215.835	5785077.382	600	900	300	32.850	375	32.775	34.490	1.714	AS PER EDCM 603
20	GRATED SIDE ENTRY PIT	359153.144	5785092.549	600	900			300	33.173	34.812	1.639	AS PER EDCM 603
EX12	ENDPIPE	359222.325	5785085.071	0	0	375	32.818			34.467	1.649	CONNECT INTO EXISTING END PIPE
21	GRATED SIDE ENTRY PIT	359217.952	5785086.129	600	900	300	32.916	375	32.841	34.490	1.649	AS PER EDCM 603
22	GRATED SIDE ENTRY PIT	359148.340	5785102.971	600	900			300	33.274	34.848	1.574	AS PER EDCM 603

file name: 305268CR602.dwg, layout name: CR602, plotted by: Darrin Sheehan, file location: G:\305268CR602\DWG\CAD\Plot date: 08/10/2024, L=4.5, P= Sheet 13 of 17, Sheets

Rev	Description	Approved	Date
1	AMENDED PIT 08	P.C	08-10-21
0	ISSUED FOR CONSTRUCTION	P.C	01-10-21
F	AMENDED OPEN DRAIN OUTLET PIPE	P.C	02-09-21
E	AMENDED OPEN DRAIN OUTLET PIPE	P.C	24-08-21
D	ADDED CULVERT LONG SECTION	P.C	29-07-21
C	AMENDED PITS 11, 12 & 13	P.C	05-02-21
B	AMENDED PIT SCHEDULE	P.C	12-05-20
A	PRELIMINARY ISSUE	P.C	29-04-20
Rev	Amendments	Approved	Date



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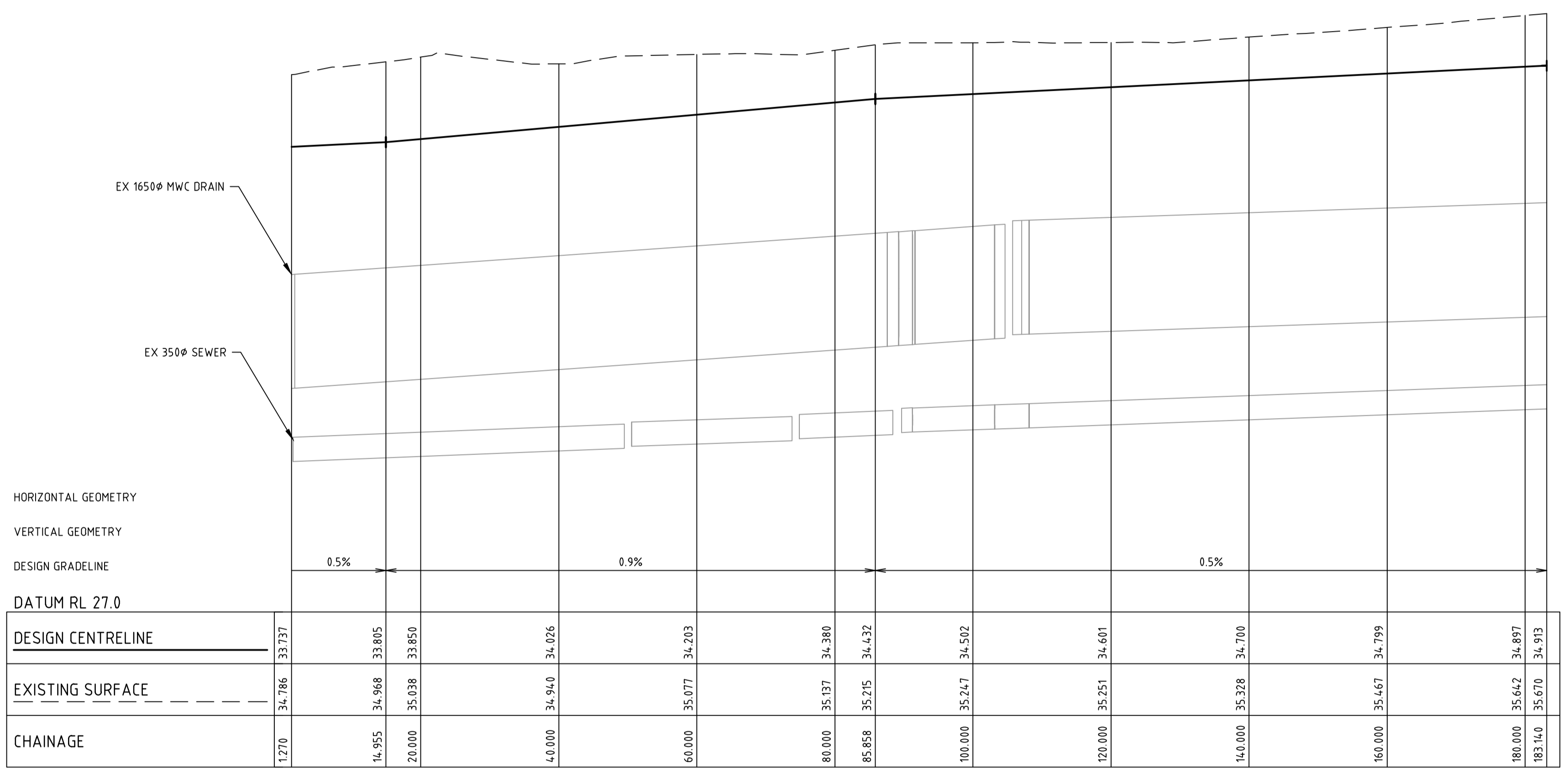
Designed
M. WRIGHT
 Authorised
P. CURNOW

Checked
B. IBBS
 Date
 01-10-21

**ARCADIA ESTATE
 STAGE 28
 DRAINAGE LONG SECTIONS
 PIT SCHEDULE**
 CARDINA SHIRE COUNCIL
 SATTERLEY PROPERTY GROUP

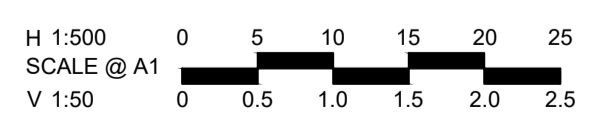
CONSTRUCTION Drg No **305268CR602** Rev **1**

file name: 305268CR603.dwg, layout name: CR603, plotted by: Darrin Sheehan, file location: G:\305268\305268.dwg, plot date: 08/10/2024, 14:45 PM, Sheet 14 of 17 Sheets



STEPHENS ROAD TEMPORARY OPEN DRAIN

0	ISSUED FOR CONSTRUCTION	P.C	01-10-21
A	ADDED OPEN DRAIN LONG SECTION	P.C	02-09-21
Rev	Amendments	Approved	Date



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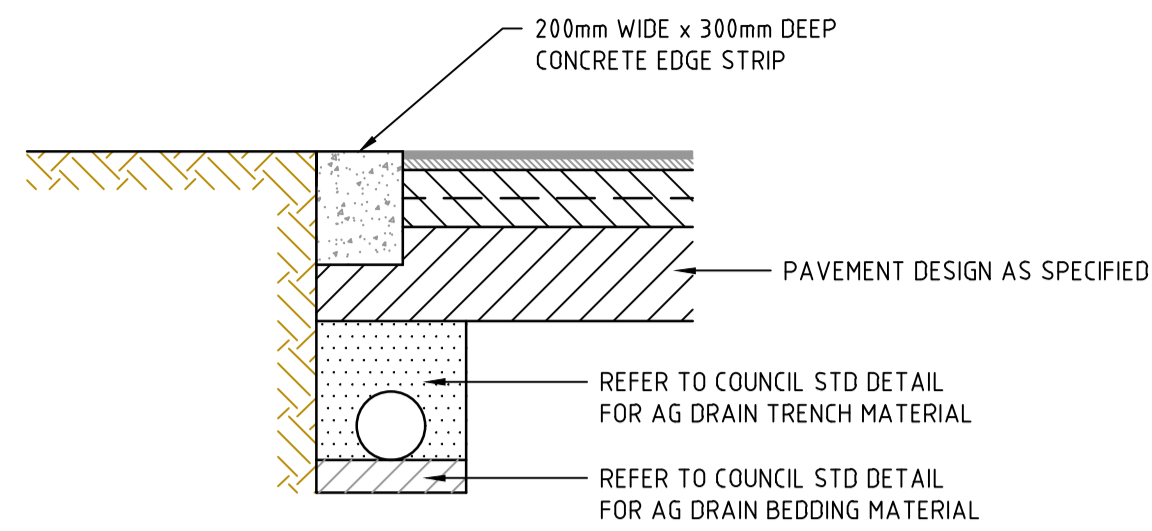
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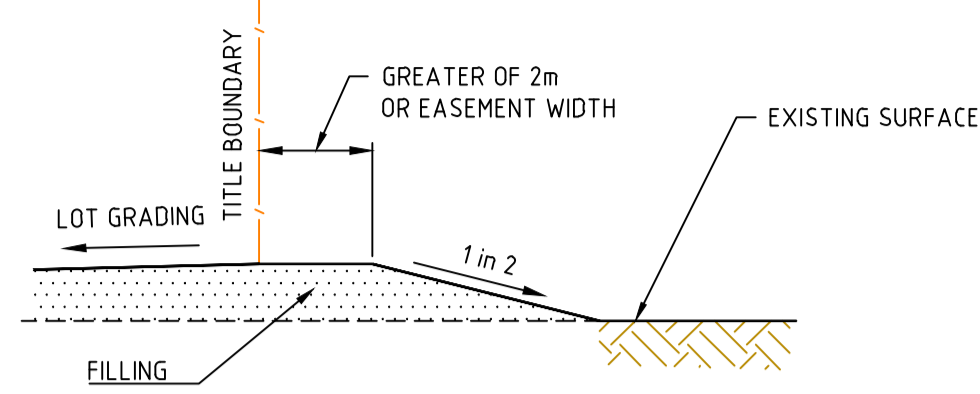
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Date
01-10-21

ARCADIA ESTATE
STAGE 28
DRAINAGE LONG SECTIONS
STEPHENS ROAD TEMPORARY OPEN DRAIN
CARDINA SHIRE COUNCIL
SATTERLEY PROPERTY GROUP

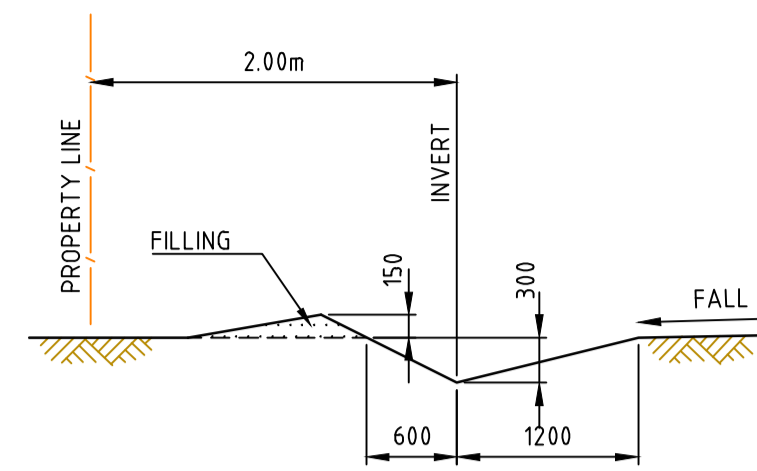
CONSTRUCTION Drg No **305268CR603** Rev **0**



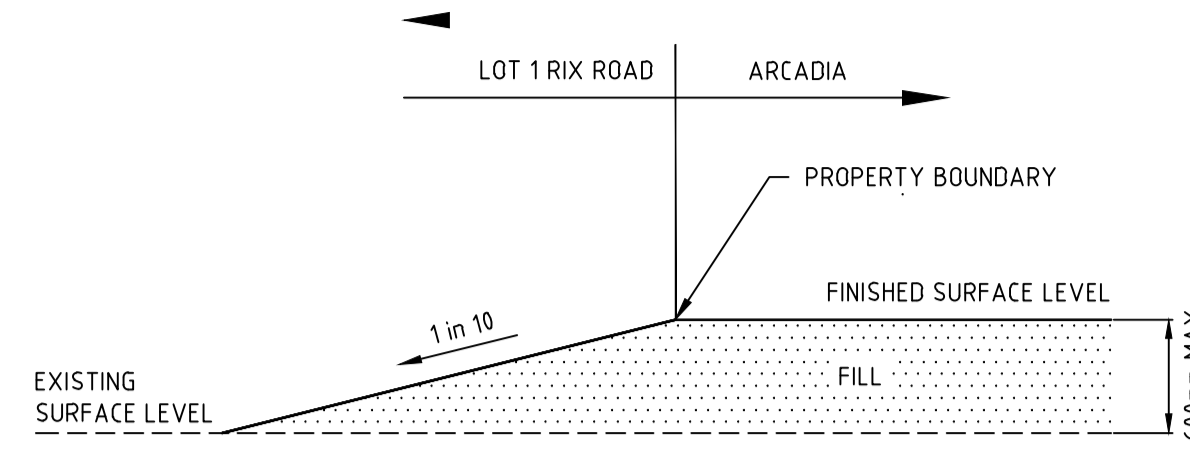
LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE - DETAIL



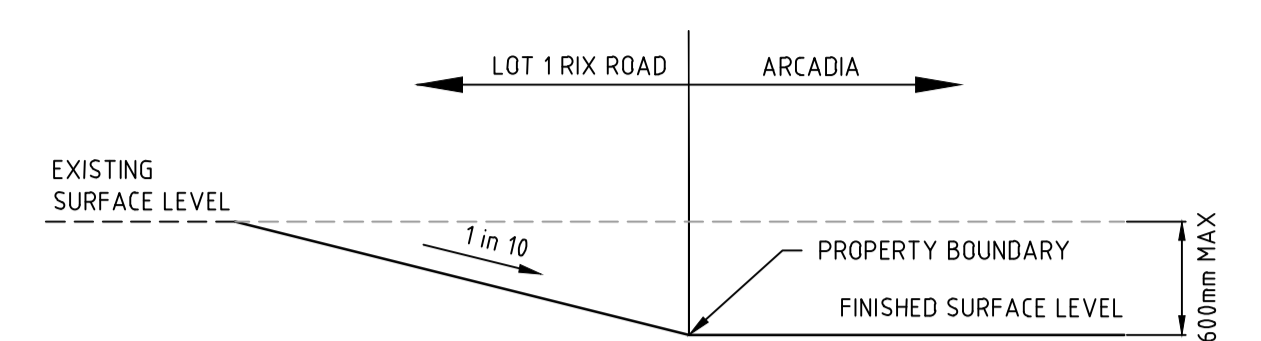
LOT FILLING AT STAGE BOUNDARY



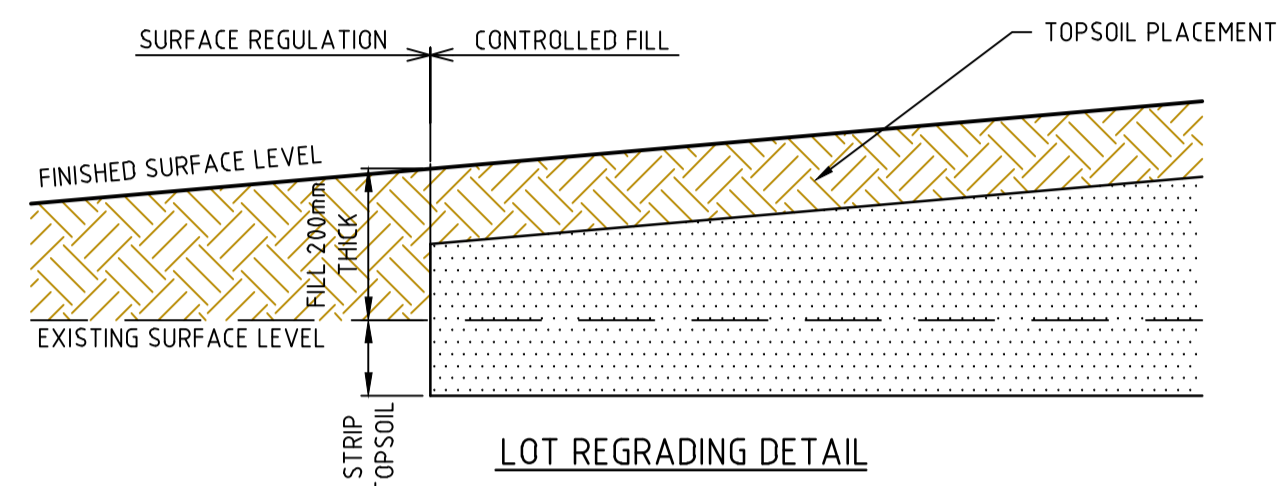
TYPICAL CATCH DRAIN SECTION



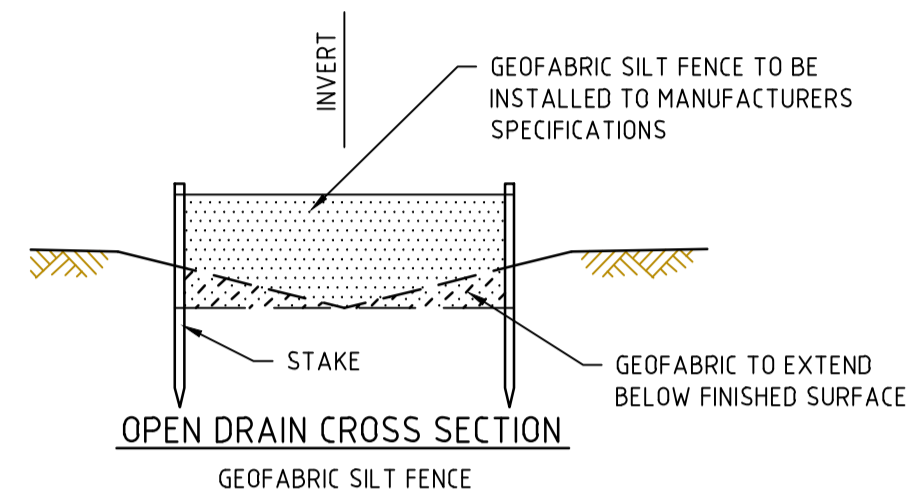
TYPICAL BOUNDARY DETAIL - RIX ROAD LOT 1



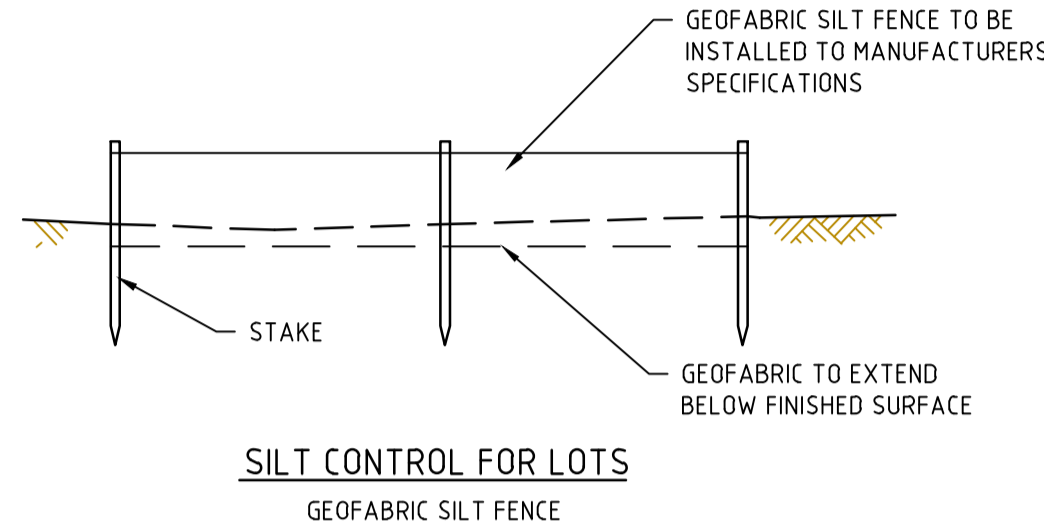
TYPICAL BOUNDARY DETAIL - RIX ROAD LOT 1



LOT REGRADING DETAIL

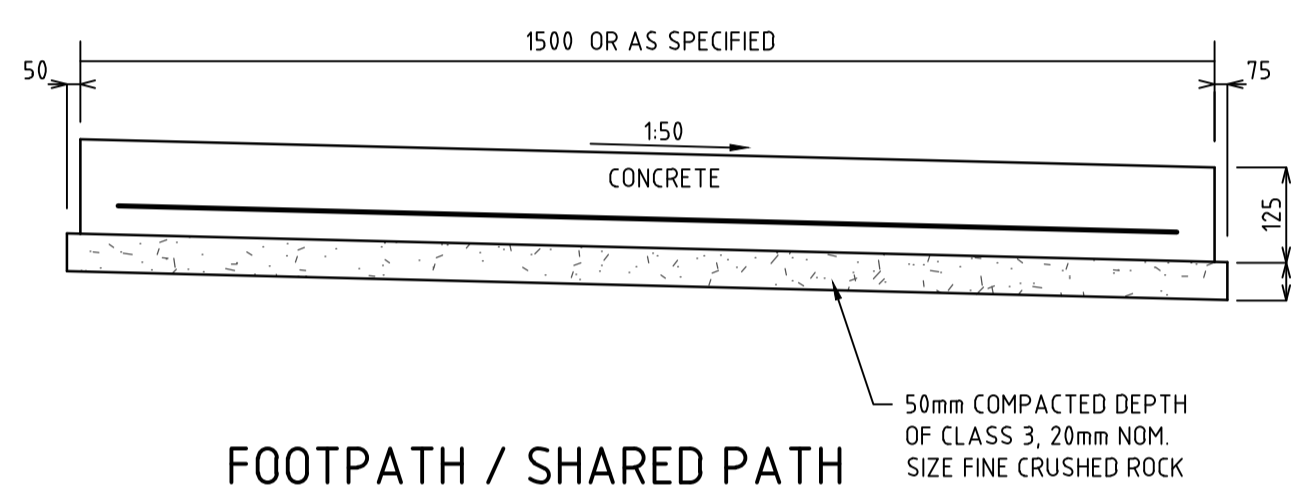


OPEN DRAIN CROSS SECTION



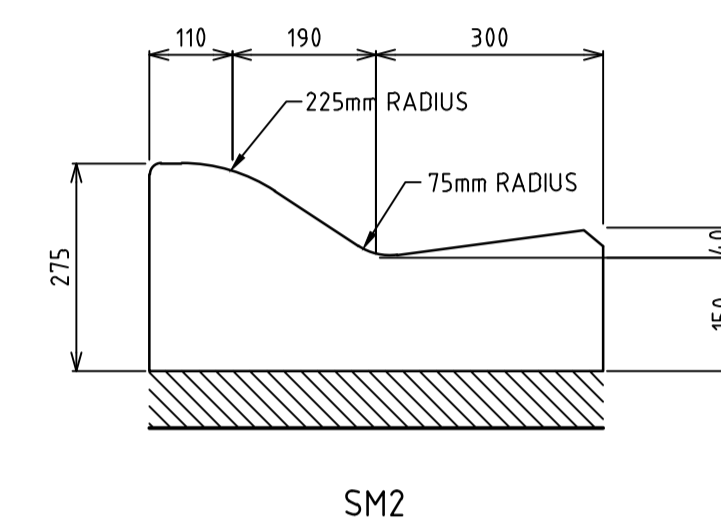
SILT CONTROL FOR LOTS

SILT CONTROL OPTIONS



FOOTPATH / SHARED PATH

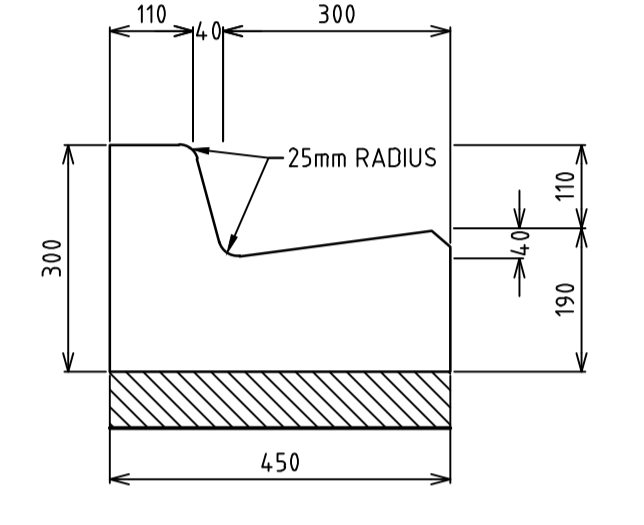
FOOTPATH TO BE 25MPa FOR RESIDENTIAL AND 32MPa FOR COMMERCIAL/INDUSTRIAL. EXPANSION JOINTS TO BE CONSTRUCTED AT 12m MAX. CTRS. AND AT BOTH SIDES OF VEHICLE CROSSINGS.



SM2

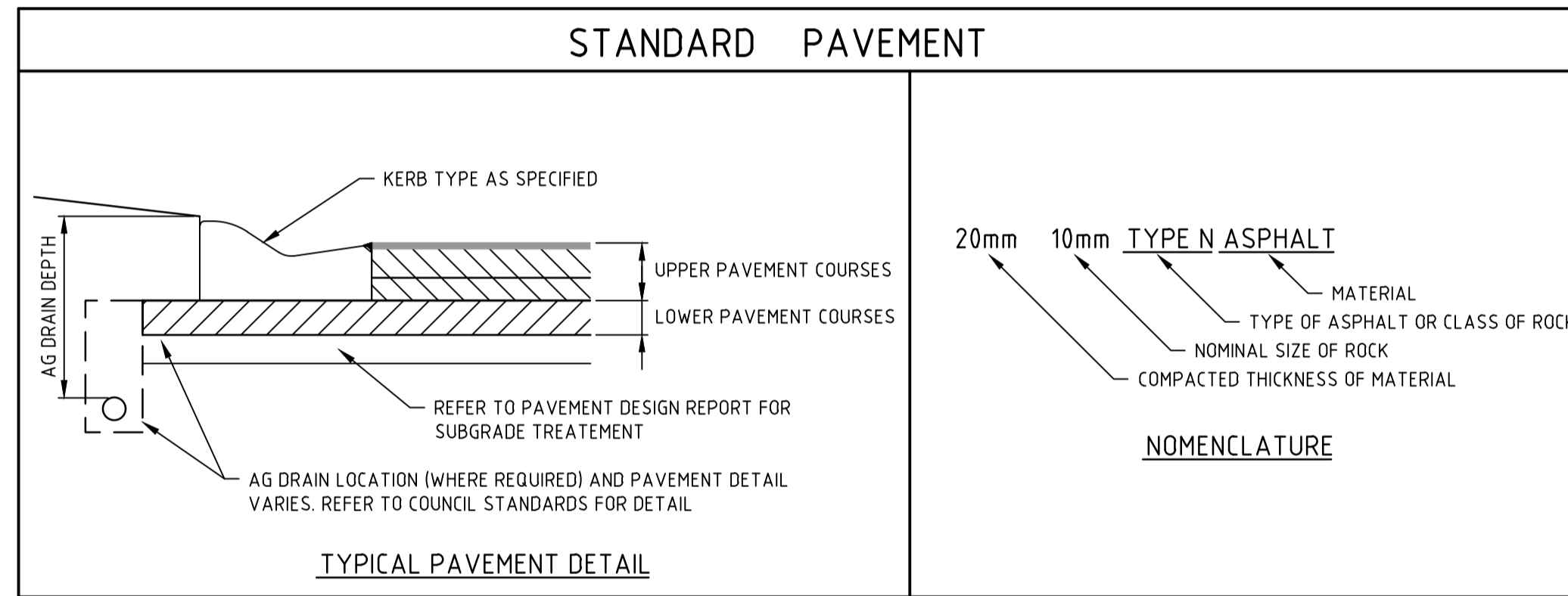
STANDARD KERB PROFILES

NOT TO SCALE



B2

NOTES:
1. ALL KERBS AND KERB & CHANNEL TO BE REINFORCED IN ACCORDANCE WITH MUNICIPALITY STD DRAWINGS.
2. ALL KERBS AND KERB & CHANNEL TO HAVE 150mm DEPTH OF CONCRETE BELOW TOP OF PAVEMENT LEVEL.



TYPICAL PAVEMENT DETAIL

NOMENCLATURE

GENERAL NOTES

- NATURE STRIPS ARE TO BE TOPSOILED WITH MATERIAL STOCKPILED FROM STRIPPING TO A DEPTH OF 100mm. IMPORTED TOPSOIL AND/OR SEEDING MAY BE REQUIRED TO PROVIDE GOOD GRASS COVER.
- LOCATION OF ALL SERVICE CONDUITS IS TO BE MARKED ON THE FACE OF BOTH KERBS WITH A UNIFORM 50mm DIAMETER MARK, 5mm DEEP. WATER & GAS CONDUITS TO BE 50mm DIAMETER CLASS 12 uPVC PIPE. POWER & TELSTRA CONDUITS ARE AS SPECIFIED ON THEIR RESPECTIVE PLANS.
- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE; OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH.
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA- "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.
- VARIATION TO JOINT LAYOUT BY CONTRACTOR WILL NOT BE ACCEPTED WITHOUT SPECIFIC WRITTEN APPROVAL OF SUPERINTENDENT & COUNCIL.

FLEXIBLE PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY COFFEY WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF COFFEY.

THE DESIGN HAS BEEN EXTRACTED FROM THE COFFEY REPORT ON "GEOTECHNICAL INVESTIGATION ARCADIA NH03 " THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST.

SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS. ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO COFFEY AND SENT TO SPIIRE.

ROAD

STEPHENS ROAD

ROAD

ROAD

WATERWAY



MGA 94 ZONE 55

- ACCESS STREET LEVEL 1 (550mm)
- RAISED PAVEMENT (REFER CR701 & CR702)

H 1:1000 SCALE @ A1

PAVEMENTS (REFER PAVEMENT DESIGN)	
STREET NAME	ACCESS STREET LEVEL 1 Charming Loop, Enright Road, Dragomir Street
PAVEMENT THICKNESS	550
ASPHALT UPPER LAYER (mm) Type N Size 10mm (Class 170 Binder)	30mm
ASPHALT LOWER LAYER(mm) Type N Size 10mm (Class 170 Binder)	30mm
SAMI LAYER (mm) Size 10 SAMI seal nominal 10mm thickness	10mm
PRIME / PRIMER SEAL (mm) Bitumen or Bitumen Emulsion Primer or size 7mm Bitumen emulsion Primer seal (See note 1)	YES
BASE (mm) CLASS 2 20mm CR or Class 2 20mm CRC (116.3 GAA)	130mm
UPPER SUB BASE (mm) CLASS 3 20mm CR or Class 3 20mm CRC EXTEND 600mm BEHIND BACK OF KERB	200mm
CAPPING LAYER (mm) Low permeable Vicroads type A material or similar with minimum CBR of 10%	150mm
SUBGRADE (mm) Prepared in accordance with GAA requirements	YES

NOTES:

- Note 1: Selection dependent on weather conditions and need or otherwise to traffic prior to asphalt placement. Contractor should nominate and seek approval of type, application rate and curing requirements prior to application.
- Note 2: Placed in appropriate thickness layers as per asphalt supplier's requirements.
- Note 3: Subgrade Prep to be in accordance with Coffey Design "754-MELGE202942AB
- Note 4: Cardinia Shire Council does not allow Class 4 crushed rock in any pavement layers or backfill.

file name: 305268CR700.dwg, layout name: CD700, plotted by: Darran Stephenson, file location: G:\305268\305268.dwg, plot date: 08/10/2024, 14:45, P14, Sheet 15 of 17, Sheets

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	P.C	01-10-21
A	PRELIMINARY ISSUE	P.C	29-04-20

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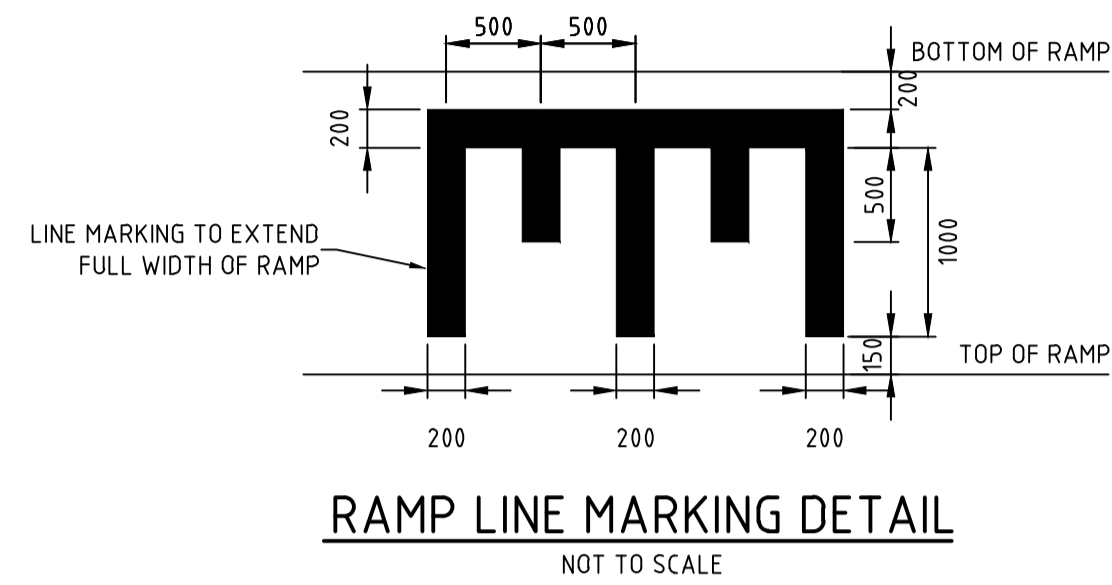
469 La Trobe Street PO Box 16084 Melbourne
Victoria 3007 Australia T 61 3 9993 7888
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Designed
M. WRIGHT
Authorised
P. CURNOW
Checked
B. IBBS
Date
01-10-21

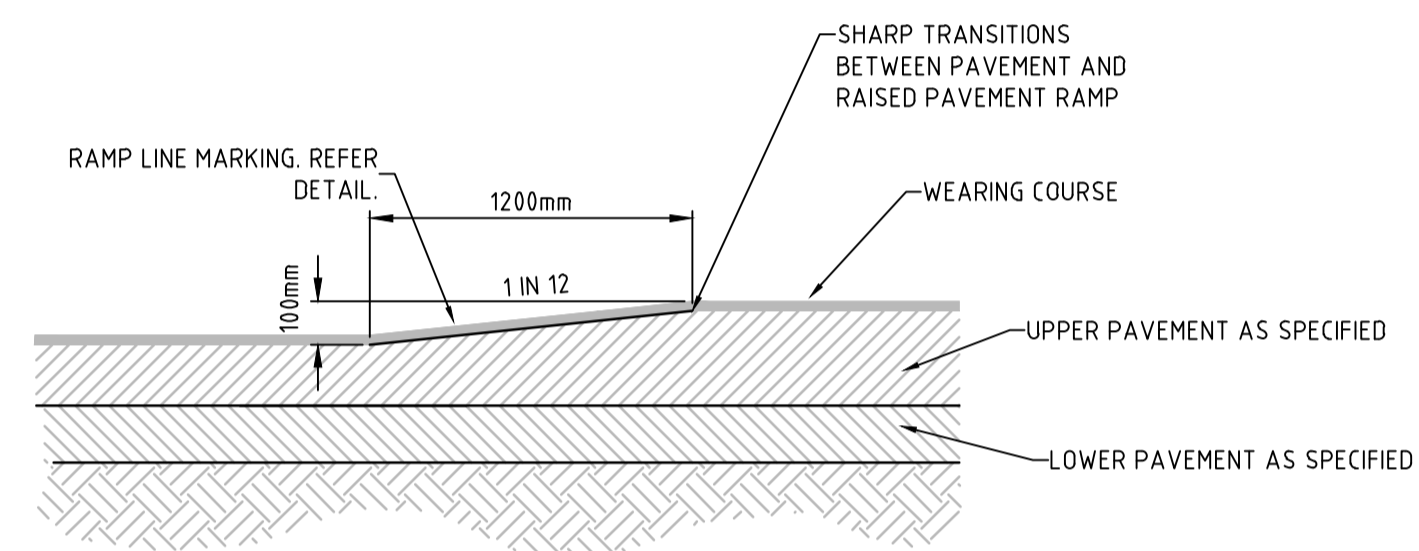
ARCADIA ESTATE
STAGE 28
PAVEMENT AND TYPICAL DETAILS

CARDINA SHIRE COUNCIL
SATTERLEY PROPERTY GROUP

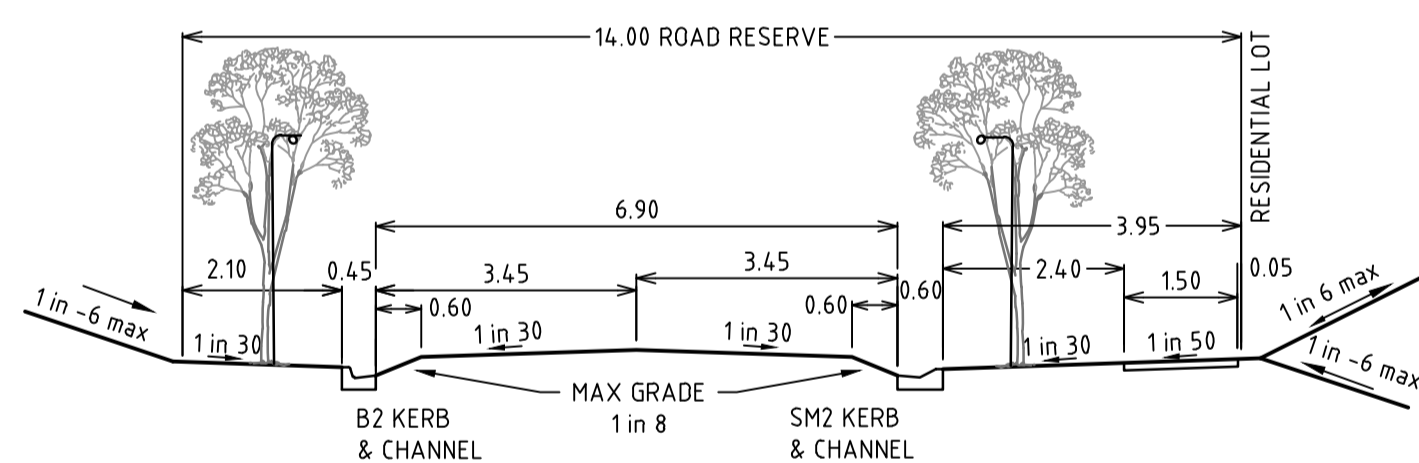
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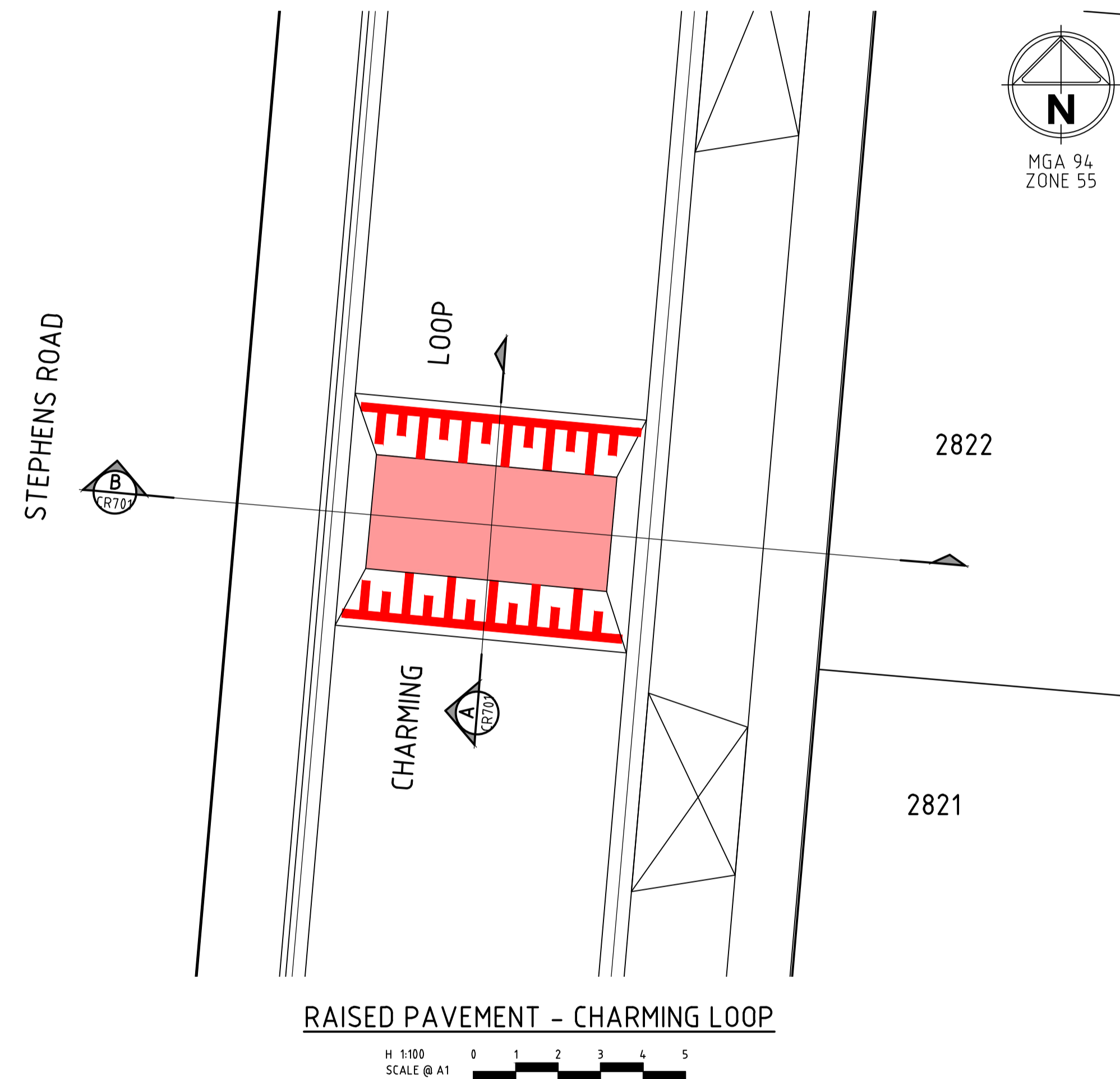
RAMP LINE MARKING DETAIL
NOT TO SCALE



SECTION A
N.T.S.
RAISED PAVEMENT DETAILS



SECTION B
N.T.S.
RAISED PAVEMENT TYPICAL SECTION DETAIL



RAISED PAVEMENT - CHARMING LOOP

H 1:100
SCALE @ A1

file name: 305268CR701.dwg, layout name: CR701, plotted by: Darragh Sheehan, file location: G:\305268\305268.dwg, plot date: 08/10/2021, 4:45 PM, Sheet 16 of 17, Sheets

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	P.C	01-10-21
A	PRELIMINARY ISSUE	P.C	29-04-20

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M. WRIGHT
Authorised
P. CURNOW

Checked
B. IBBS
Date
01-10-21

ARCADIA ESTATE
STAGE 28
PAVEMENT AND TYPICAL DETAILS
RAISED PAVEMENT DETAILS
CARDINA SHIRE COUNCIL
SATTERLEY PROPERTY GROUP

CONSTRUCTION Drg No **305268CR701** Rev **0**



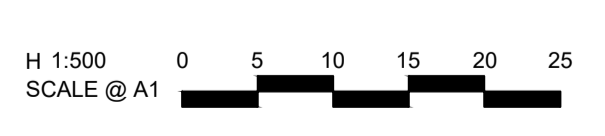
LEGEND		
#1		R1-2A
#2		G9-20
#3		D4-5
#4		W5-10
		W8-2
#5		STREET NAME PLATES TO BE IN ACCORDANCE WITH CARDINIA STANDARD DRAWING CSC-500, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
#6		R8-2
#7		R8-1
		BIKE PATH SYMBOLS
		SHARED PATH SYMBOLS
		TACTILE GROUND SURFACE INDICATORS (TGSi's)
		RETROREFLECTIVE PAVEMENT MARKERS (RRPM's)
		RAISED PAVEMENT TO BE PAINTED TRAFFIC RED WITH THERMOPLASTIC LONG LIFE PAINT.

- NOTES:**
- STREET SIGNS ARE TO BE MOUNTED ON SEPARATE POLES, WITH A COUNCIL APPROVED BRACKET.
 - TGSi's MUST BE PROVIDED IN ACCORDANCE WITH THE AUSTRALIAN STANDARD 1428.4.1
 - SIGNS MUST BE A MINIMUM 1m CLEAR FROM DRIVEWAYS.



file name: 305268CR800.dwg, layout name: CR800, plotted by: Darragh Sheehan, file location: G:\305268\305268.dwg, LACAD Plot date: 08/10/2024, Lx5, P4, Sheet 11 of 11, Sheets

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	P.C	01-10-21
D	AMENDED BIKE PATH, ADDED STEPHENS ROAD SIGNAGE AND FENCING	P.C	02-09-21
C	AMENDED BIKE PATH	P.C	24-06-21
B	ADDED CONNECTION TO EXISTING STEPHENS ROAD FOOTPATH	P.C	29-07-21
A	PRELIMINARY ISSUE	P.C	29-04-20



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Designed
M. WRIGHT
 Authorised
P. CURNOW



Checked
B. IBBS
 Date
 01-10-21

**ARCADIA ESTATE
 STAGE 28
 SIGNAGE AND LINEMARKING**

CARDINIA SHIRE COUNCIL
 SATTERLEY PROPERTY GROUP

CONSTRUCTION Drg No **305268CR800** Rev **0**