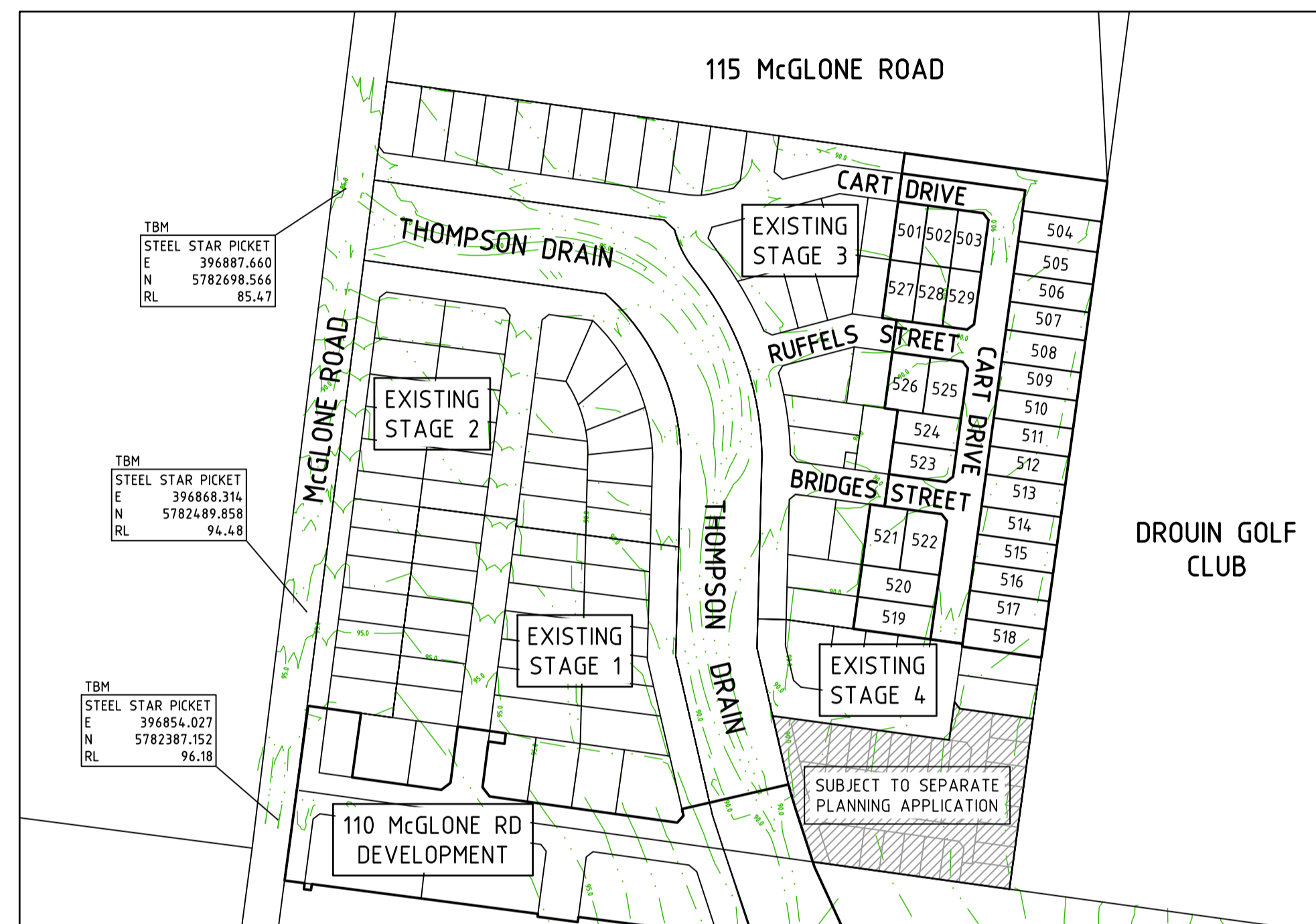
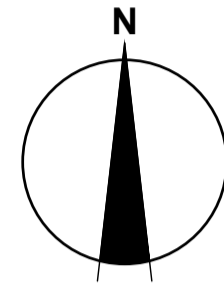


# 175 MCGLONE ROAD, DROUIN

## DETAILED DESIGN - STAGE 5

### BAW BAW SHIRE COUNCIL - PLA0382/16



**LOCALITY PLAN**  
VIC ROADS REF: 96 F3

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16028-05-02	Layout Plan	
16028-05-03	Intersection Detail Plan & Typical Cross Sections	
16028-05-04	Lip Profiles & Setout Information	
16028-05-05	Longitudinal Sections	
16028-05-06	Cross Sections - Cart Drive	CH26.962 - CH113.290
16028-05-07	Cross Sections - Cart Drive	CH114.867 - CH171.290
16028-05-08	Cross Sections - Cart Drive	CH185.290 - CH229.290
16028-05-09	Cross Sections - Cart Drive	CH239.823 - CH297.872
16028-05-10	Cross Sections - Ruffels Street	
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16028-05-14	General Notes & Details	
16028-05-15	Master Services Plan	
16028-05-16	Signage & Linemarking Plan	

## THE FAIRWAYS

### Principal

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**WARNING**  
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**DIAL 1100 BEFORE YOU DIG**  
 www.1100.com.au

ROAD NAME	GAS		WATER		ELECTRICITY		TELECOMMUNICATIONS	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
CART DRIVE (LOT 501-503)	SOUTH	2.70	SOUTH	3.20	SOUTH	1.70	SOUTH	1.00
CART DRIVE (LOT 504-514)	EAST	2.10	EAST	2.60	WEST	2.30	WEST	1.80
RUFFELS STREET	NORTH	2.10	NORTH	2.60	SOUTH	2.30	SOUTH	1.80
BRIDGES STREET	NORTH	2.10	NORTH	2.60	SOUTH	2.30	SOUTH	1.80

ROAD NAME	ROAD CLASSIFICATION	RESERVE WIDTH (m)	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
			LIP to LIP	INV to INV	BACK to BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
CART DRIVE (LOT 501-503)	LOCAL	14.00	6.70	7.30	7.75	B2	SM2-M	1.20	5.05
CART DRIVE (LOT 504-514)	LOCAL	16.00	6.70	7.30	7.90	SM2-M	SM2-M	4.05	4.05
RUFFELS STREET	LOCAL	16.00	6.70	7.30	7.90	SM2-M	SM2-M	4.05	4.05
BRIDGES STREET	LOCAL	16.00	6.70	7.30	7.90	SM2-M	SM2-M	4.05	4.05

**LEGEND - LAYOUT PLAN**

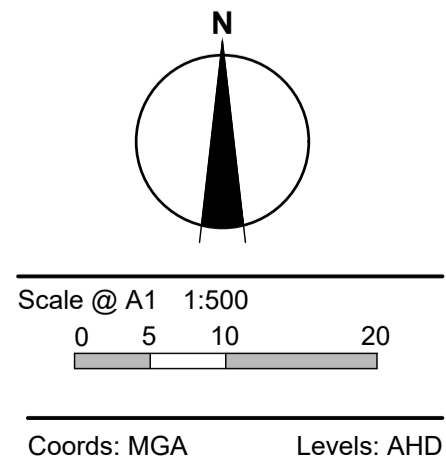
- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- TACTILE PAVERS
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING TELSTRA
- EXISTING WATER
- EXISTING RISING MAIN
- EXISTING STORMWATER DRAIN
- EXISTING RECYCLED WATER
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- RETAINING WALL
- ZERO LOT LINES
- PAVEMENT TREATMENT
- STRUCTURAL FILL > 200mm DEEP
- EX. STRUCTURAL FILL > 200mm DEEP
- DIRECTION OF FALL
- OVERLAND FLOW
- ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN
- "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE RETAINED/REMOVED
- TREE PROTECTION ZONE (TPZ)
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY
- PROPOSED STREET LIGHT

REVISION	DATE	DES/DF	APPD
1 AS CONSTRUCTED ISSUE	31.05.22	AC/AC	KT
C ISSUED FOR CONSTRUCTION	02.08.21	AC/AC	KT
B AMENDED AS PER COUNCIL COMMENTS RECEIVED 09/06/21	10.06.21	AC/AC	KT
A INITIAL ISSUE	30.10.20	AC/AC	KT

**THE FAIRWAYS**

Principal  
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 Berwick, VIC, 3806

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 A.Cantwell  
 Drawn  
 A.Cantwell  
 Checked  
 K.Taylor  
 Authorised  
 K.Taylor  
 Date  
 October 2020



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Engineering Design | Development Coordination | Construction Management

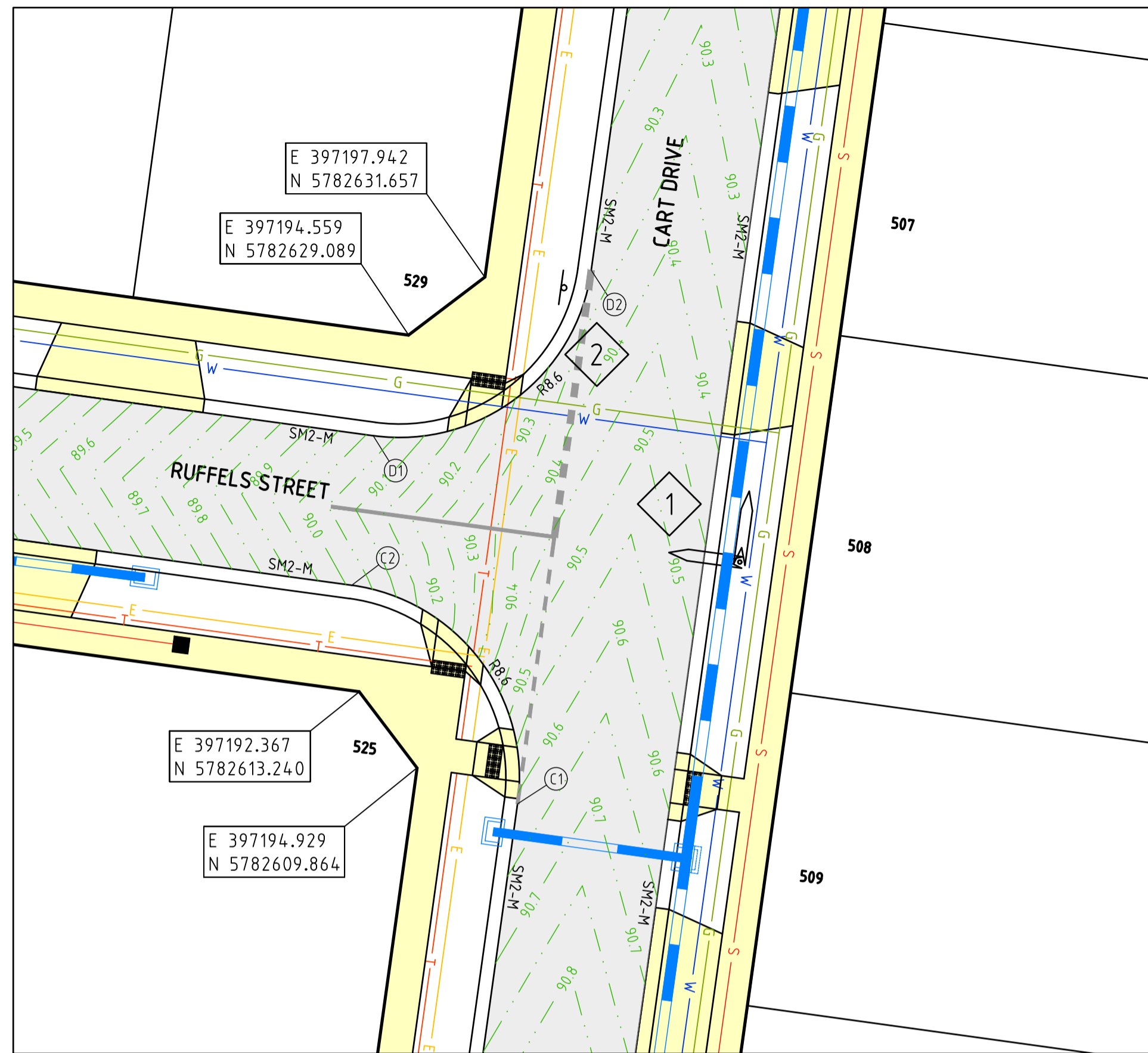
**175 MCGLONE ROAD, DROUIN**  
 DETAILED DESIGN - STAGE 5  
 BAW BAW SHIRE COUNCIL - PLA0382/16  
 ROADWORKS & DRAINAGE  
 LAYOUT PLAN

Drawing No. 16028-05-02  
 Sheet No. 02 of 16

Rev 1

AS CONSTRUCTED

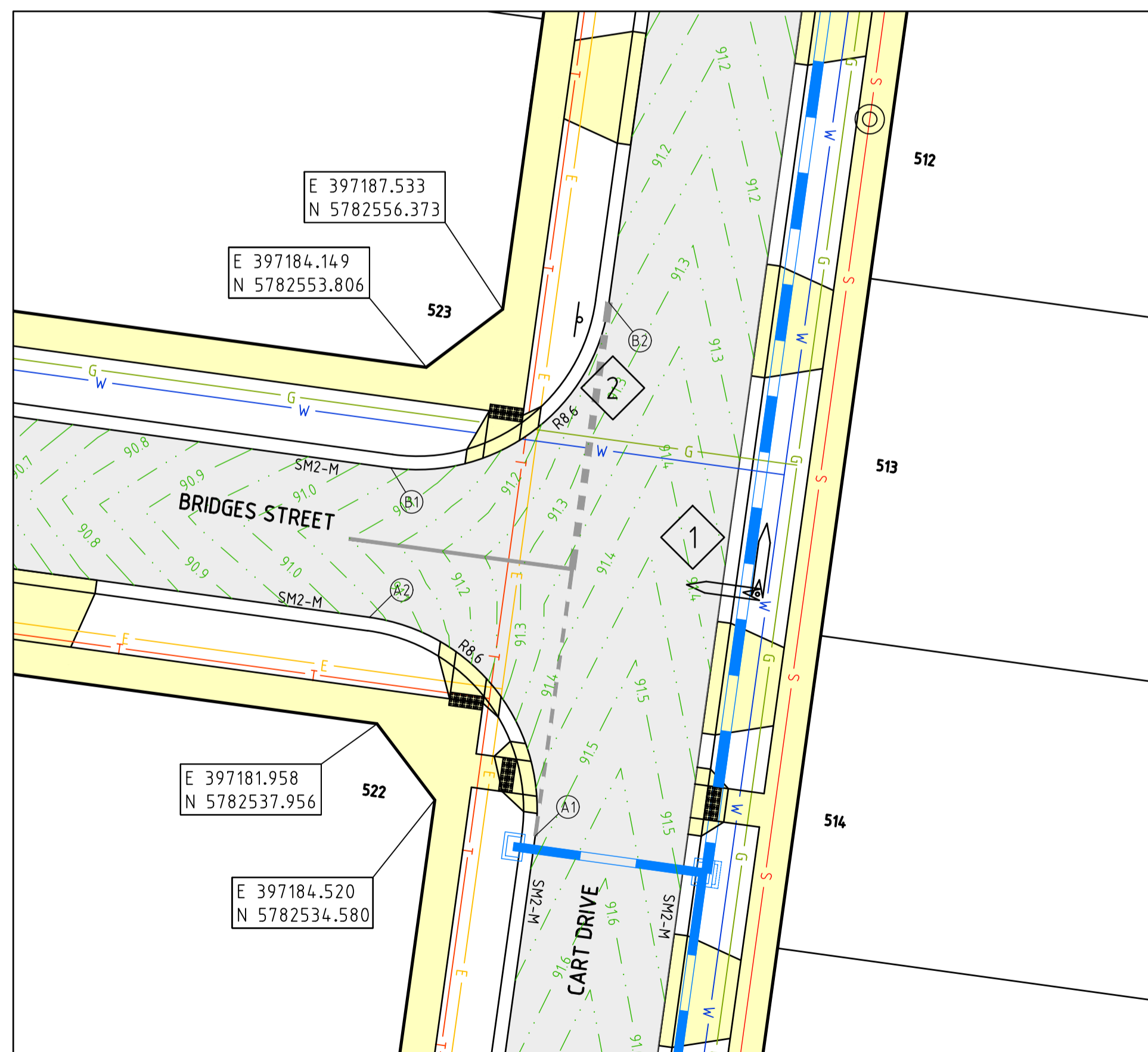
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SIGN	REF
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	2

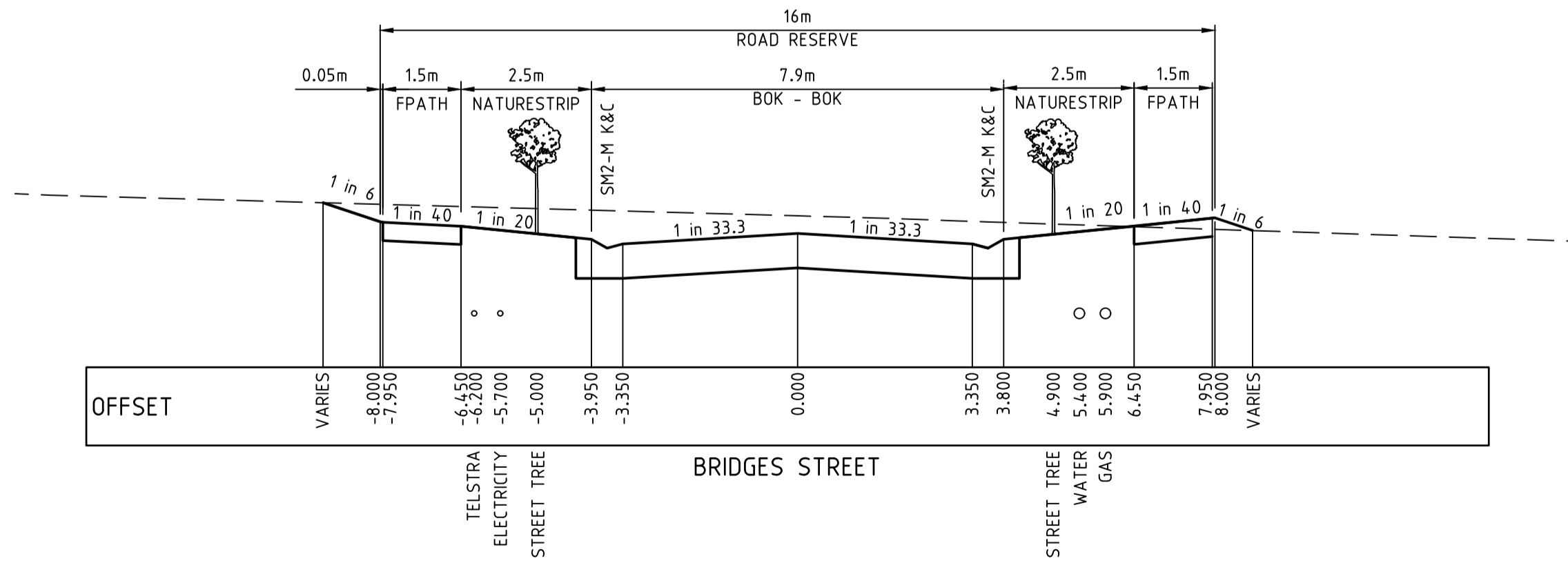
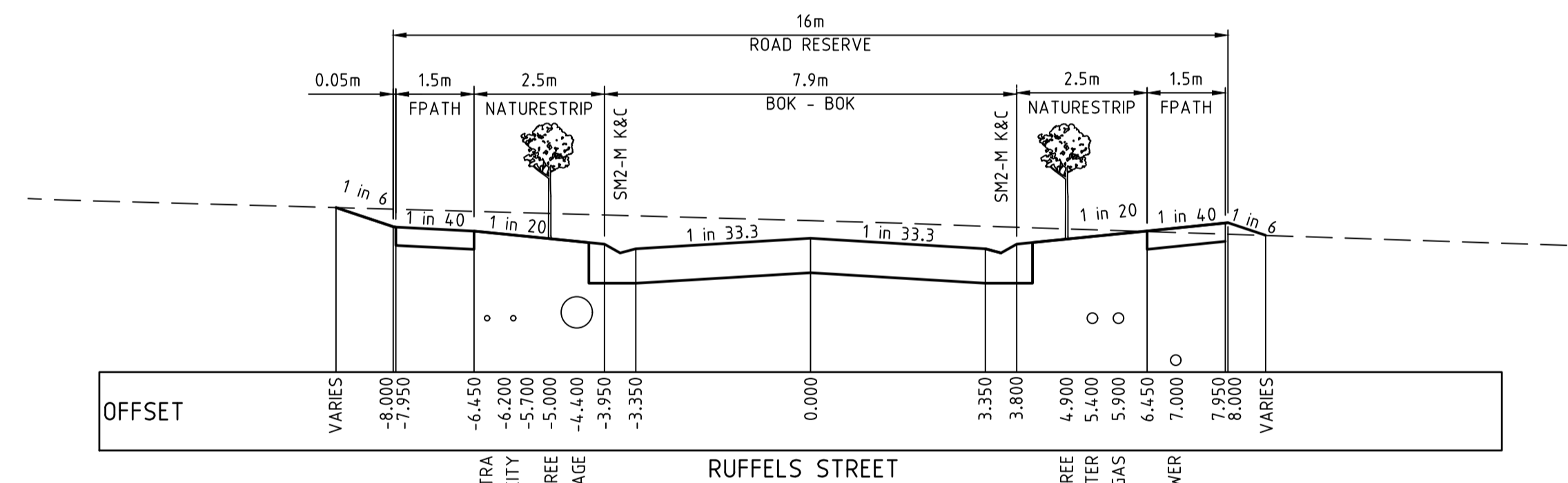
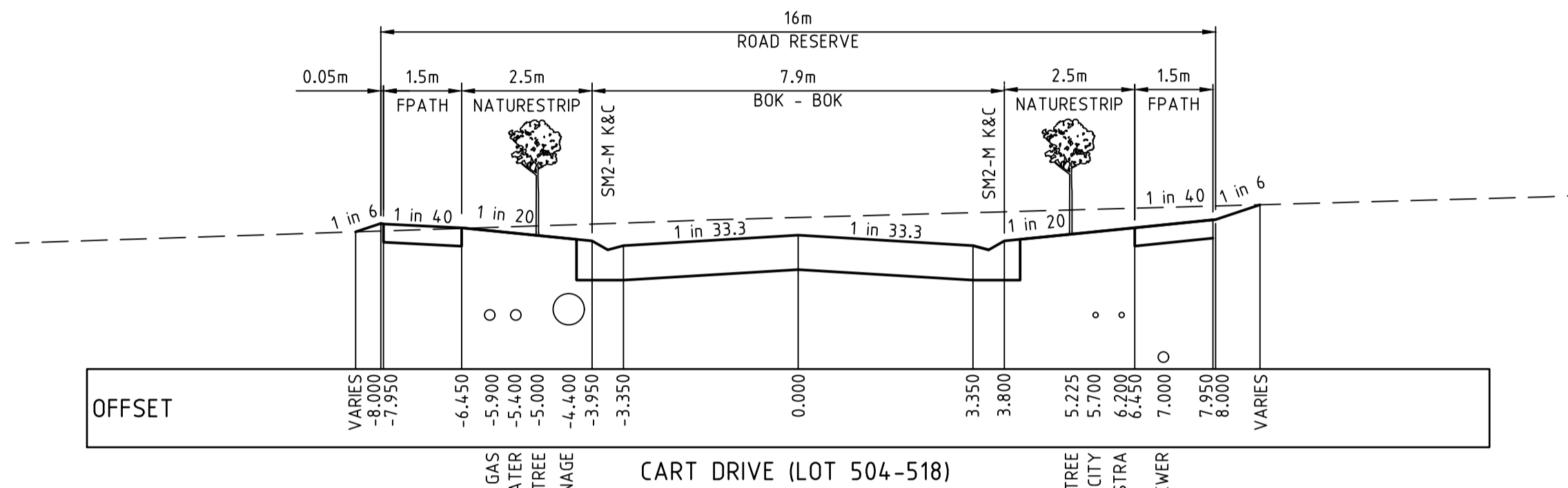
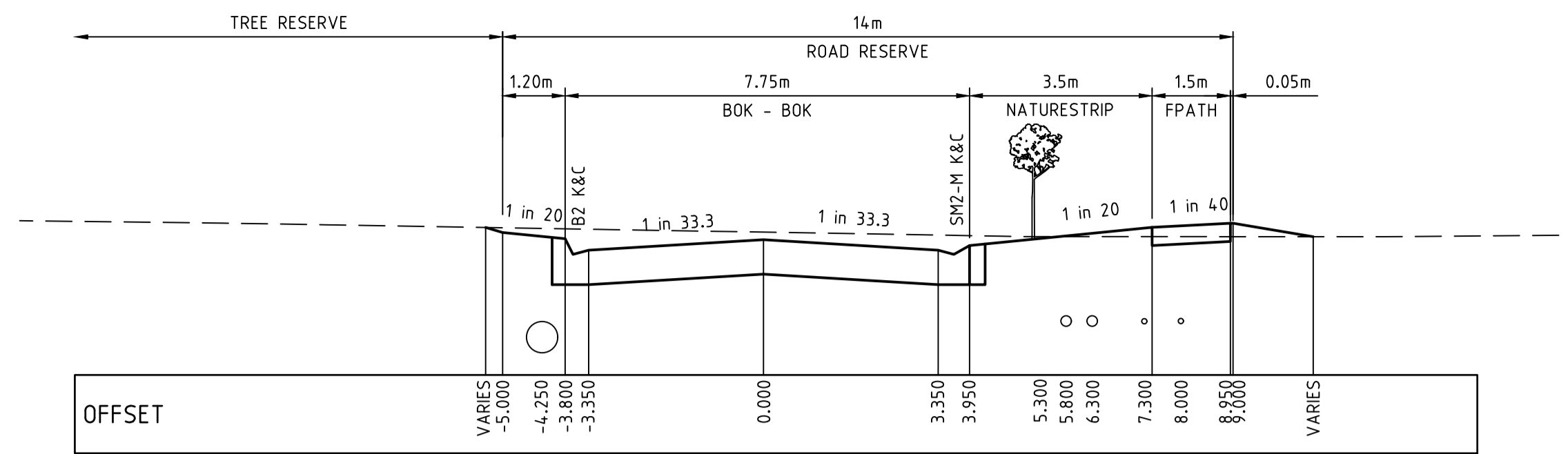
R1-2

LEGEND - INTERSECTION PLAN	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	TACTILE PAVERS
	EXISTING HOUSE DRAIN
	RETAINING WALL
	PAVEMENT TREATMENT
	CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
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	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
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	PROPOSED DRIVEWAY



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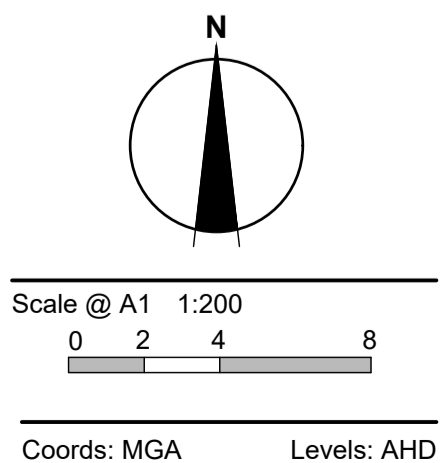
- NOTES**
- REFER TO SHEET No 16028-05-04 FOR LIP PROFILES & SETOUT INFORMATION
  - 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPMS AT MAX 6m SPACING.



## THE FAIRWAYS

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 Berwick, VIC, 3806

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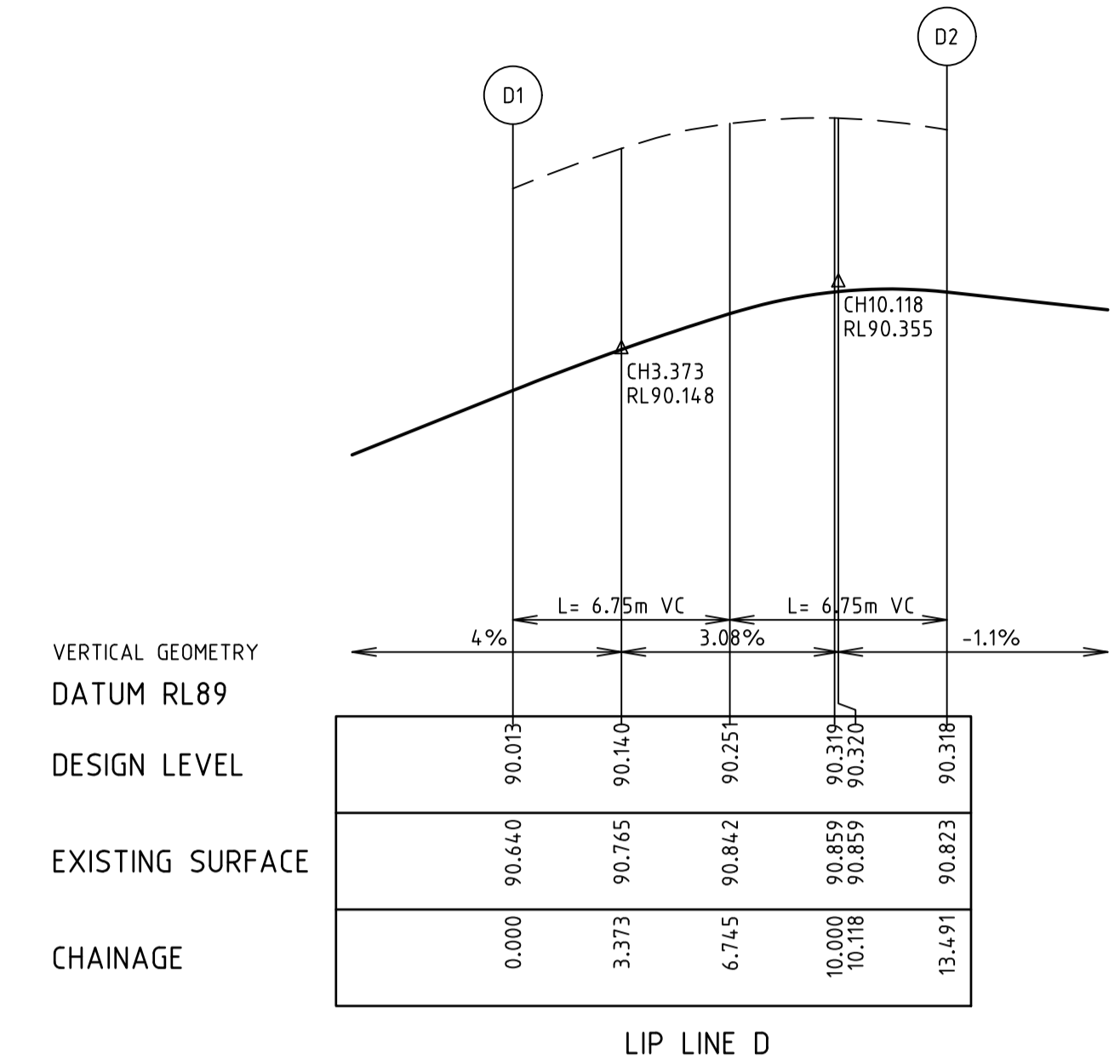
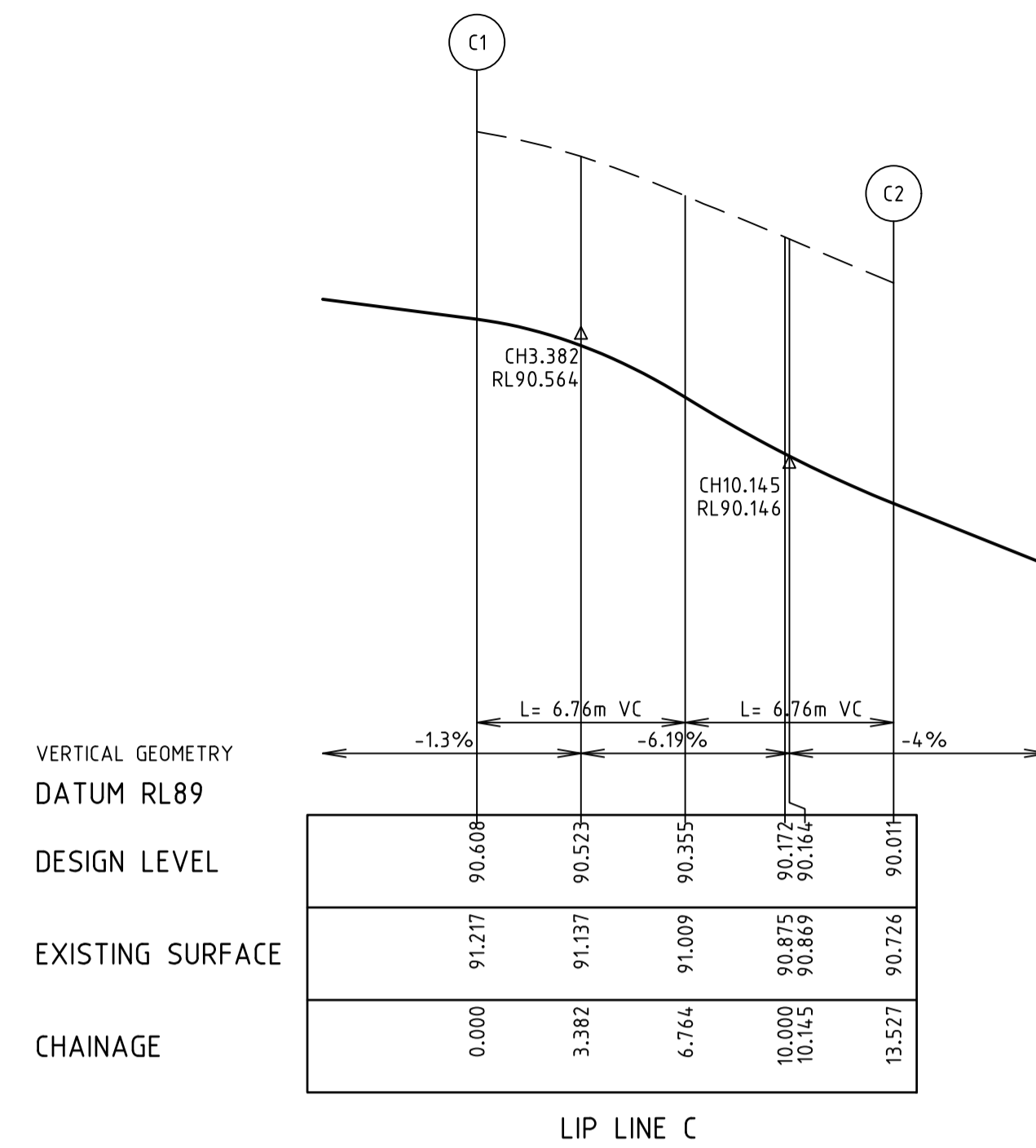
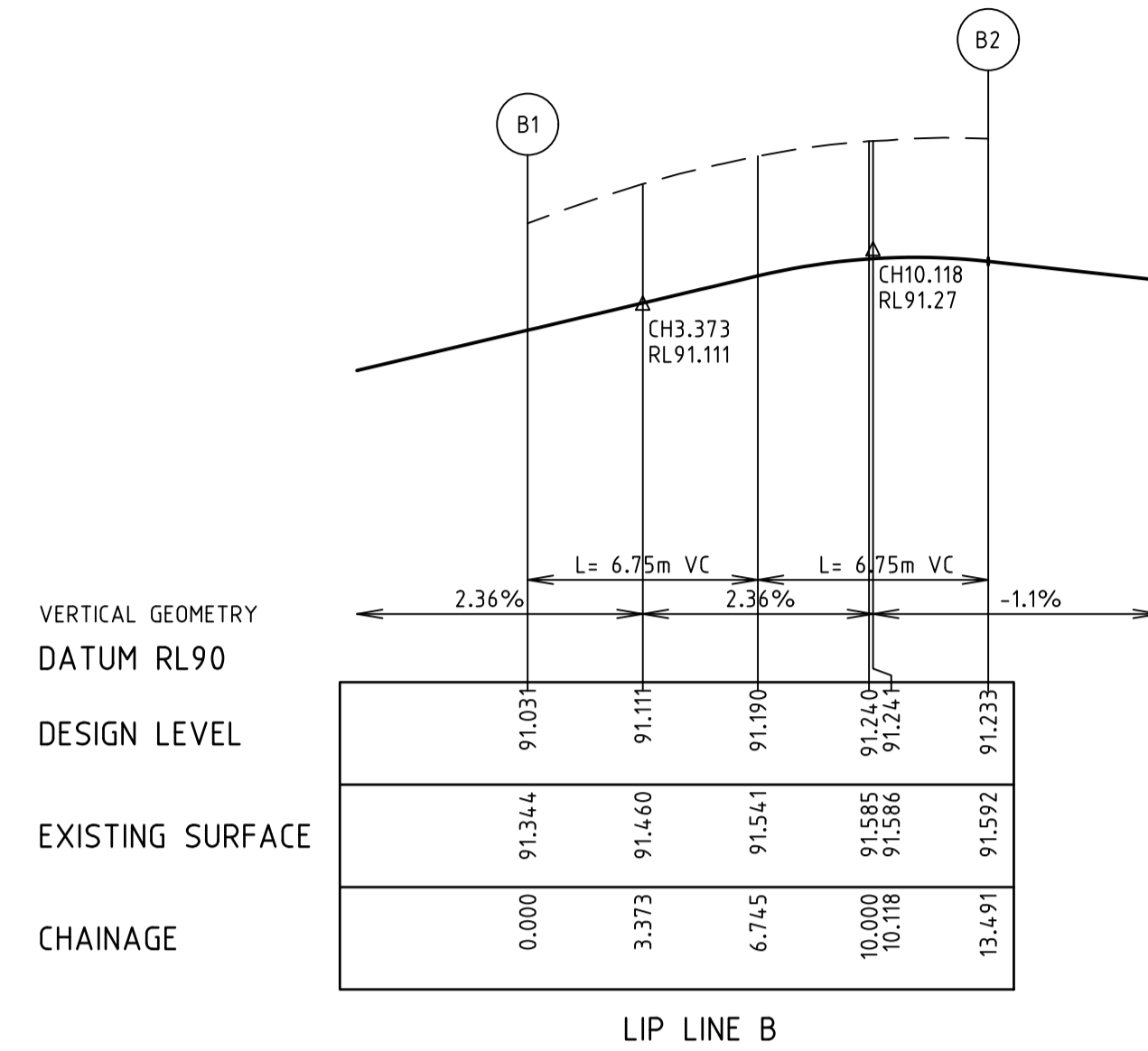
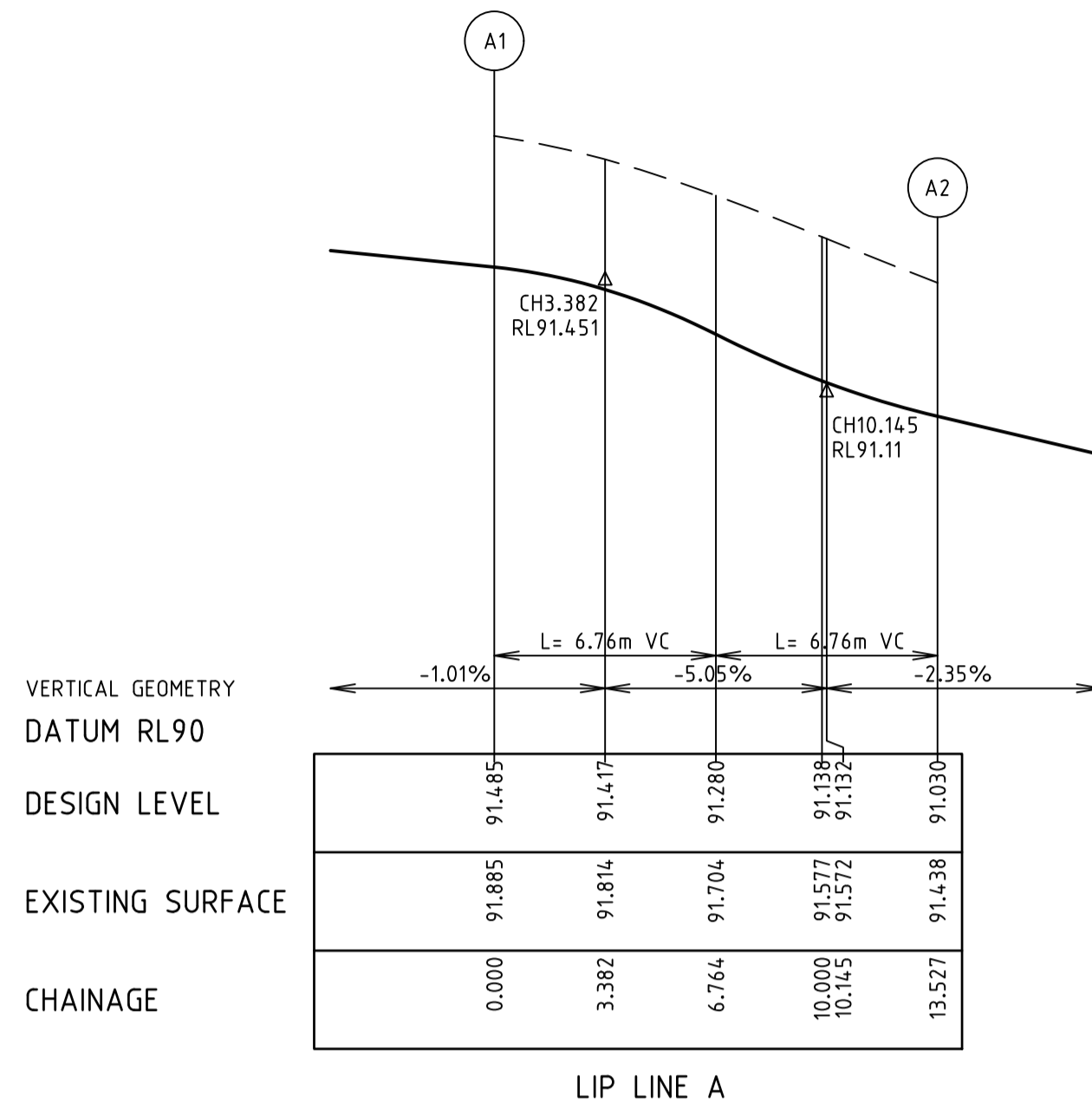
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**175 MCGLONE ROAD, DROUIN**  
 DETAILED DESIGN - STAGE 5  
 BAW BAW SHIRE COUNCIL - PLA0382/16  
 ROADWORKS & DRAINAGE  
 INTERSECTION DETAIL PLAN & TYPICAL CROSS SECTIONS

Drawing No. 16028-05-03  
 Sheet No. 03 of 16

Rev 1

AS CONSTRUCTED



**ALIGNMENT A**

POINT NO	EASTING	NORTHING	RL
A1	397188.994	5782532.994	91.485
A2	397181.635	5782542.693	91.030

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
A1 - A2	90.122	8.600	13.527	2.525	1.869	3.295	2.792	3.382	91.280

**ALIGNMENT B**

POINT NO	EASTING	NORTHING	RL
B1	397182.589	5782549.325	91.031
B2	397192.268	5782556.669	91.233

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
B1 - B2	89.878	8.600	13.491	2.512	1.860	3.287	2.788	3.373	91.190

**ALIGNMENT C**

POINT NO	EASTING	NORTHING	RL
C1	397199.404	5782608.278	90.608
C2	397192.045	5782617.977	90.011

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
C1 - C2	90.122	8.600	13.527	2.525	1.869	3.295	2.792	3.382	90.355

**ALIGNMENT D**

POINT NO	EASTING	NORTHING	RL
D1	397192.999	5782624.609	90.013
D2	397202.677	5782631.952	90.318

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
D1 - D2	89.878	8.600	13.491	2.512	1.860	3.287	2.788	3.373	90.251

**ALIGNMENT E**

POINT NO	EASTING	NORTHING	RL
E1	397204.168	5782698.780	89.787
E2	397210.469	5782697.923	89.815
E3	397217.315	5782688.900	89.853
E4	397216.307	5782681.612	89.890

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
E2 - E3	90.122	8.000	12.583	2.349	1.739	3.065	2.597	3.146	89.833

**CART DRIVE DESIGN LINE**

CHAINAGE	EASTING	NORTHING	BEARING
0.000	397134.942	5782704.821	97°45'00"
72.110	397206.393	5782695.097	97°45'00"
74.359	397208.553	5782694.497	113°16'30"
76.923	397210.716	5782693.139	130°58'31"
79.487	397212.364	5782691.187	148°40'32"
82.051	397213.340	5782688.827	166°22'33"
84.615	397213.553	5782686.282	184°04'34"
85.165	397213.496	5782685.736	187°52'20"
100.000	397211.464	5782671.041	187°52'20"
200.000	397197.767	5782571.983	187°52'20"
300.000	397184.071	5782472.925	187°52'20"
327.334	397180.327	5782445.849	187°52'20"

**RUFFELS STREET DESIGN LINE**

CHAINAGE	EASTING	NORTHING	BEARING
-0.000	397204.362	5782619.682	277°44'60"
62.736	397142.200	5782628.141	277°44'60"

**BRIDGES STREET DESIGN LINE**

CHAINAGE	EASTING	NORTHING	BEARING
-0.000	397193.953	5782544.398	277°45'00"
75.549	397119.094	5782554.585	277°45'00"

LEGEND
--- EXISTING SURFACE
— DESIGN LINE
- - - FUTURE DESIGN LINE

**NOTES**  
1. CHAINAGES REFER TO LIP OF KERB/EDGE OF CONCRETE.

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REVISION	DATE	DES/DT	APPD
1 AS CONSTRUCTED ISSUE	31.05.22	AC/AC	KT
C ISSUED FOR CONSTRUCTION	02.08.21	AC/AC	KT
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A INITIAL ISSUE	30.10.20	AC/AC	KT

**THE FAIRWAYS**

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PO Box 342  
Berwick, VIC, 3806

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Drawn  
A.Cantwell

Checked  
K.Taylor

Authorised  
K.Taylor

Date  
October 2020

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Scale @ A1 H1:200 V1:20  
0 2 4 8  
0 0.2 0.4 0.8

Coords: MGA Levels: AHD

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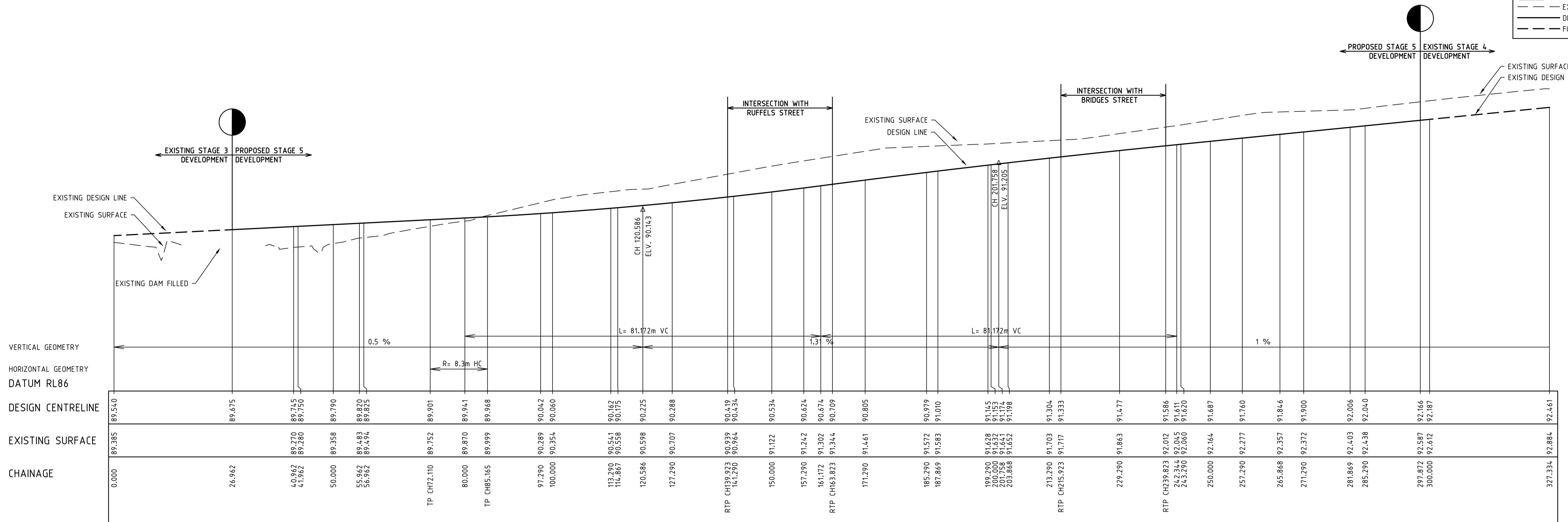
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**175 MCGLONE ROAD, DROUIN**  
DETAILED DESIGN - STAGE 5  
BAW BAW SHIRE COUNCIL - PLA0382/16  
ROADWORKS & DRAINAGE  
LIP PROFILES & SETOUT INFORMATION

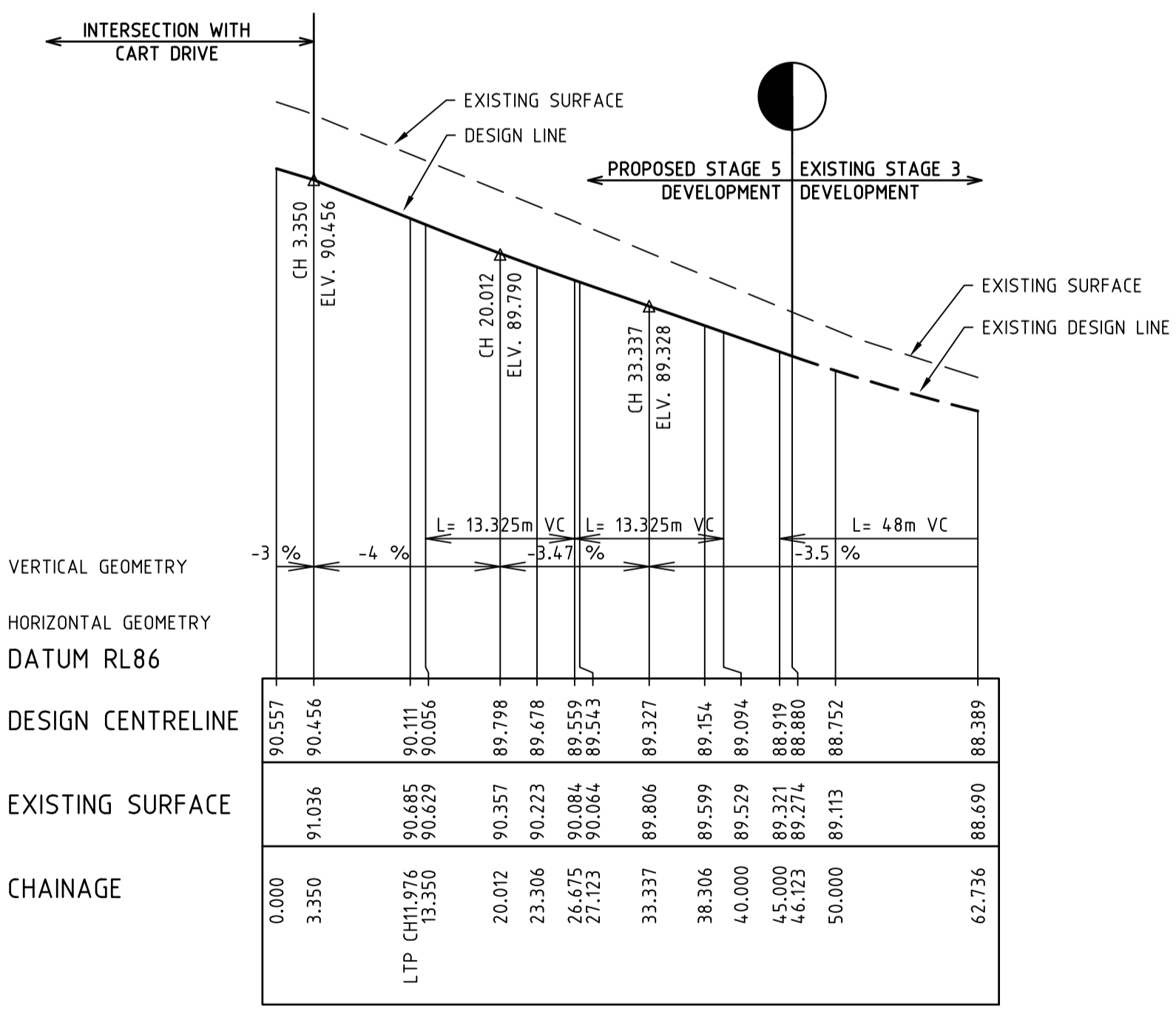
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Sheet No. 04 of 16

**Rev 1**  
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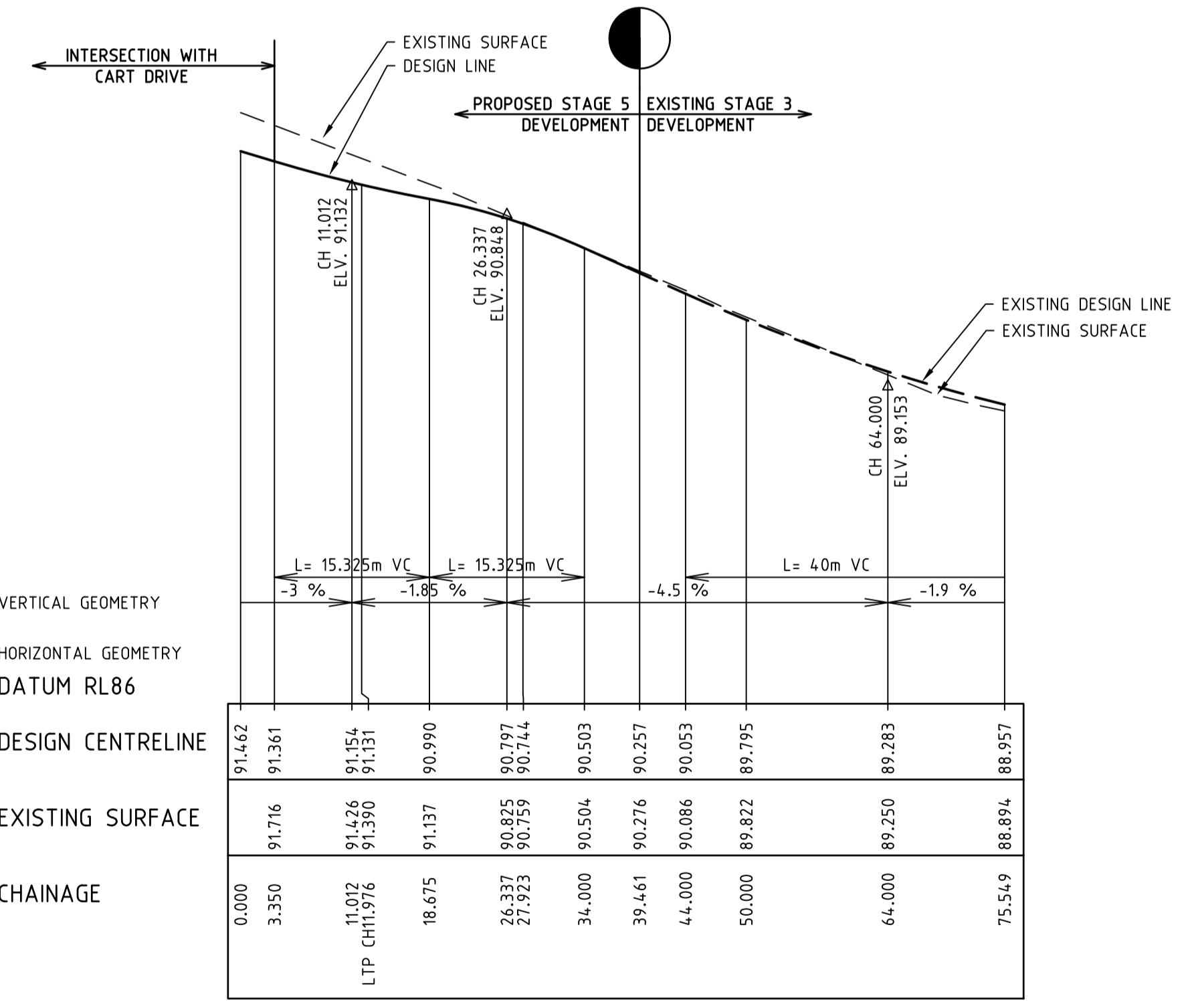
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---	DESIGN LINE
---	FUTURE DESIGN LINE



CART DRIVE LONGITUDINAL SECTION



RUFFELS STREET LONGITUDINAL SECTION



BRIDGES STREET LONGITUDINAL SECTION

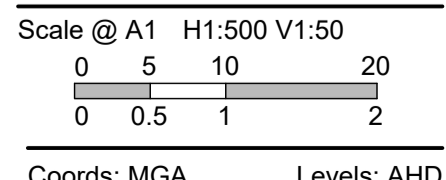
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REVISION	DATE	DESIGN	APPD
1	31.05.22	AC/AC	KT
C	02.08.21	AC/AC	KT
B	10.06.21	AC/AC	KT
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**175 MCGLONE ROAD, DROUIN**  
DETAILED DESIGN - STAGE 5  
BAW BAW SHIRE COUNCIL - PLA0382/16  
ROADWORKS & DRAINAGE  
LONGITUDINAL SECTIONS

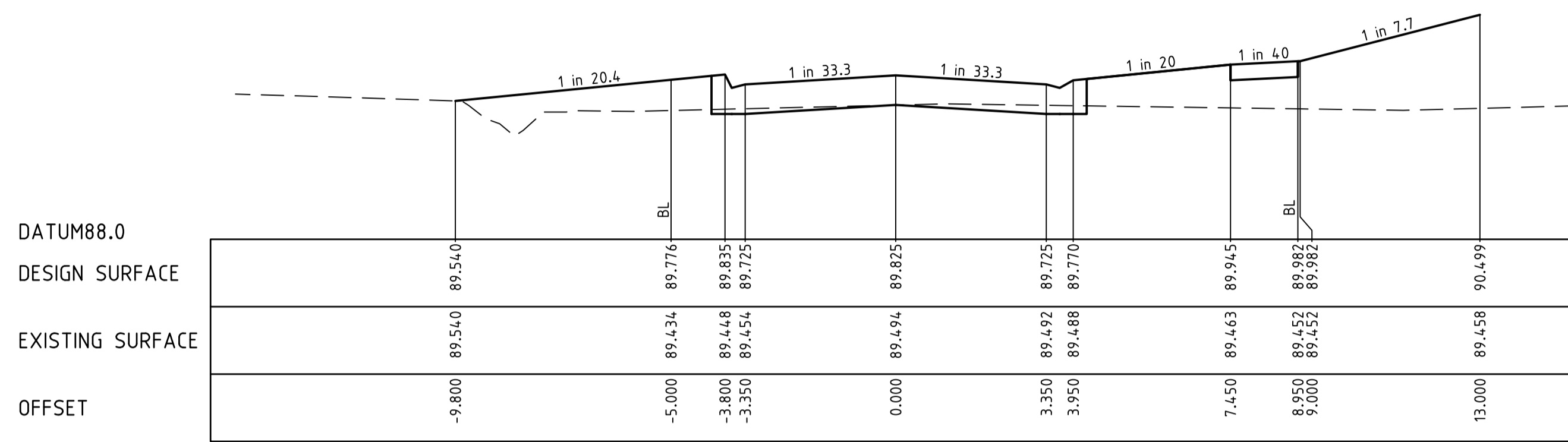
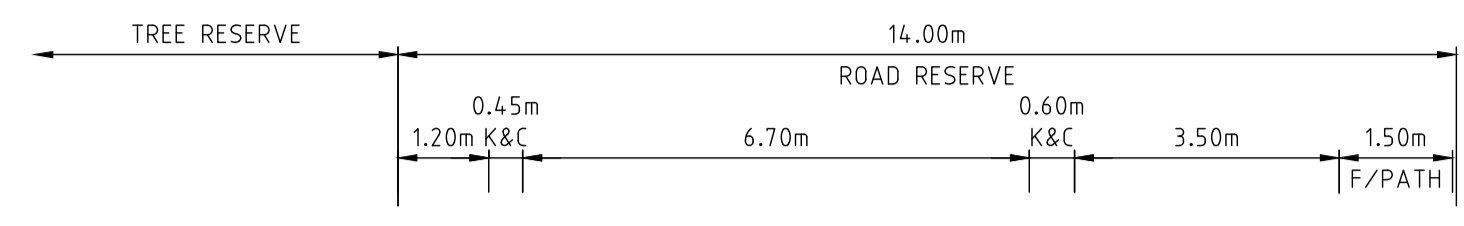
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Sheet No. 05 of 16

Rev 1

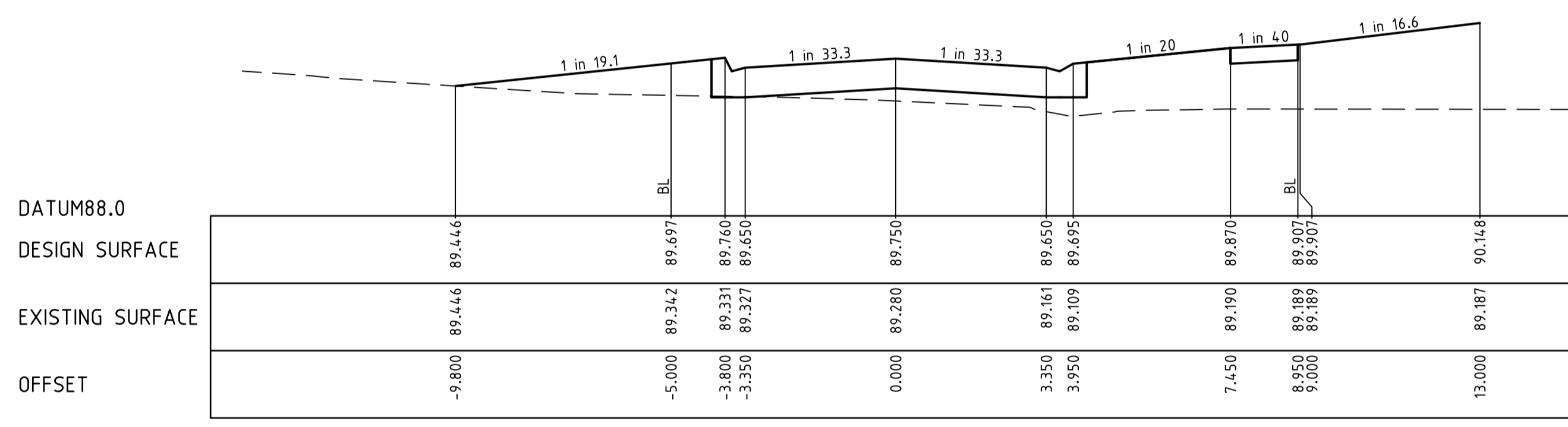
AS CONSTRUCTED

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

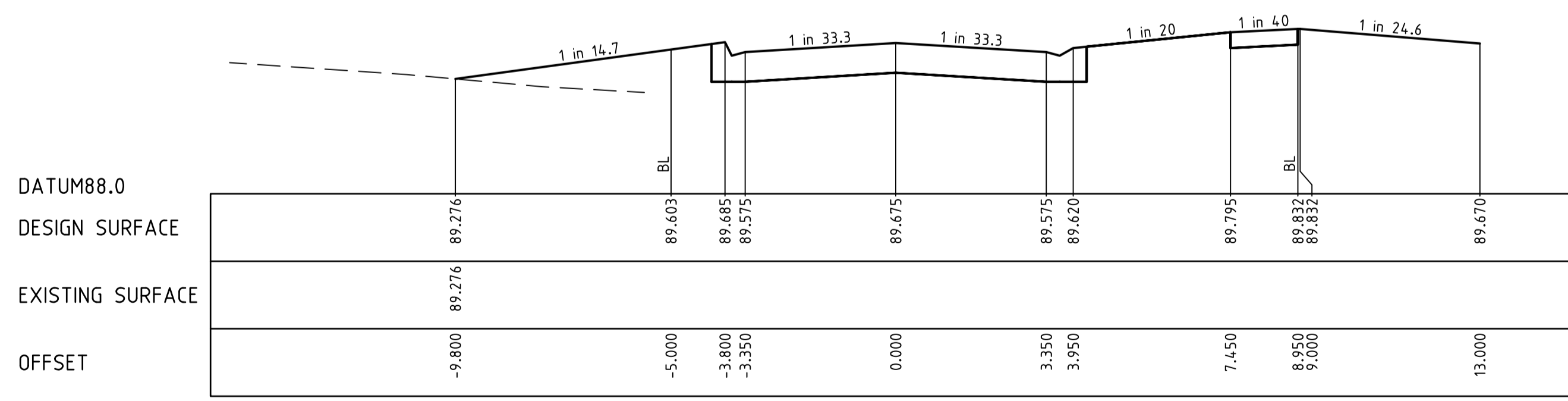
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---	DESIGN LINE
---	FUTURE DESIGN LINE



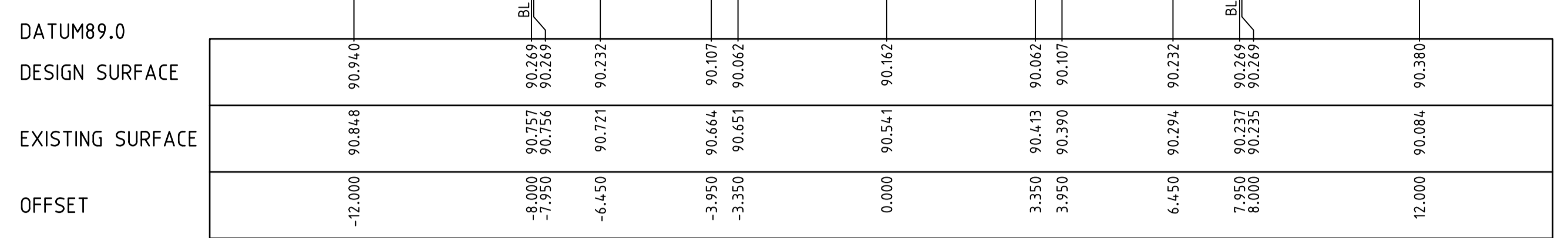
CH 56.962



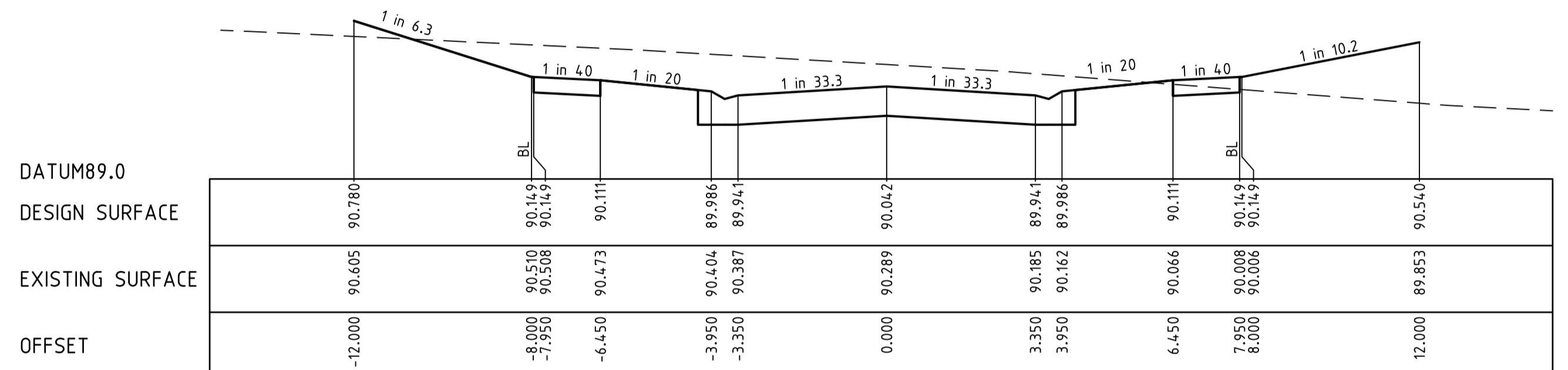
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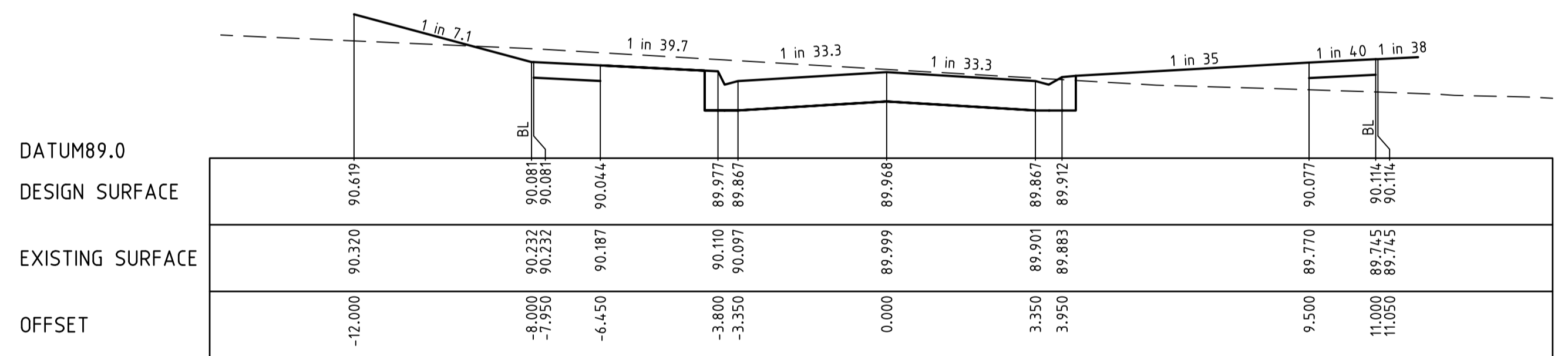
CH 26.962 (LIMIT OF WORKS)



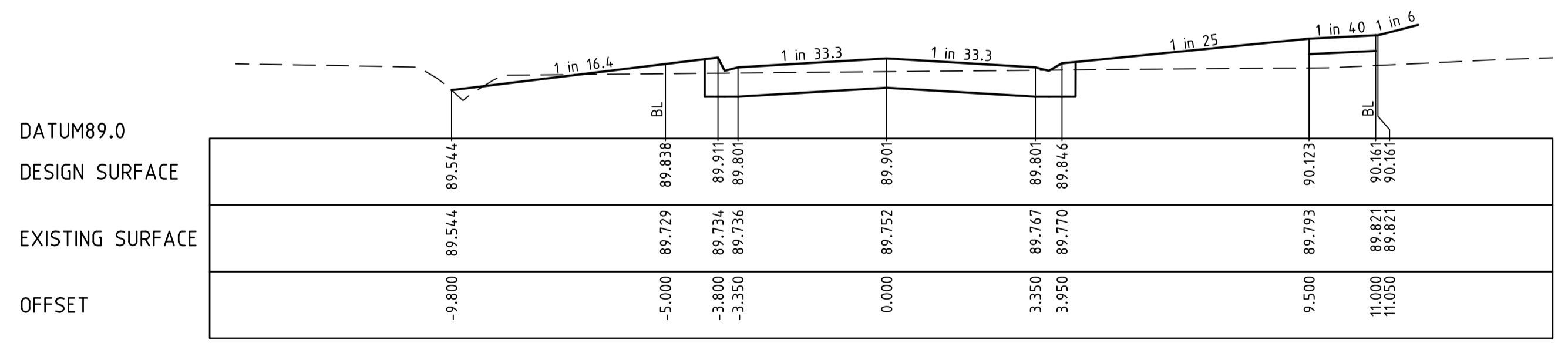
CH 113.290



CH 97.290



TP CH 85.165 (WITHIN CORNER)



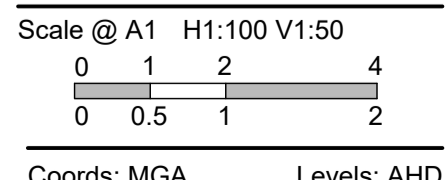
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REVISION	DATE	DES/DT	APPD
1	31.05.22	AC/AC	KT
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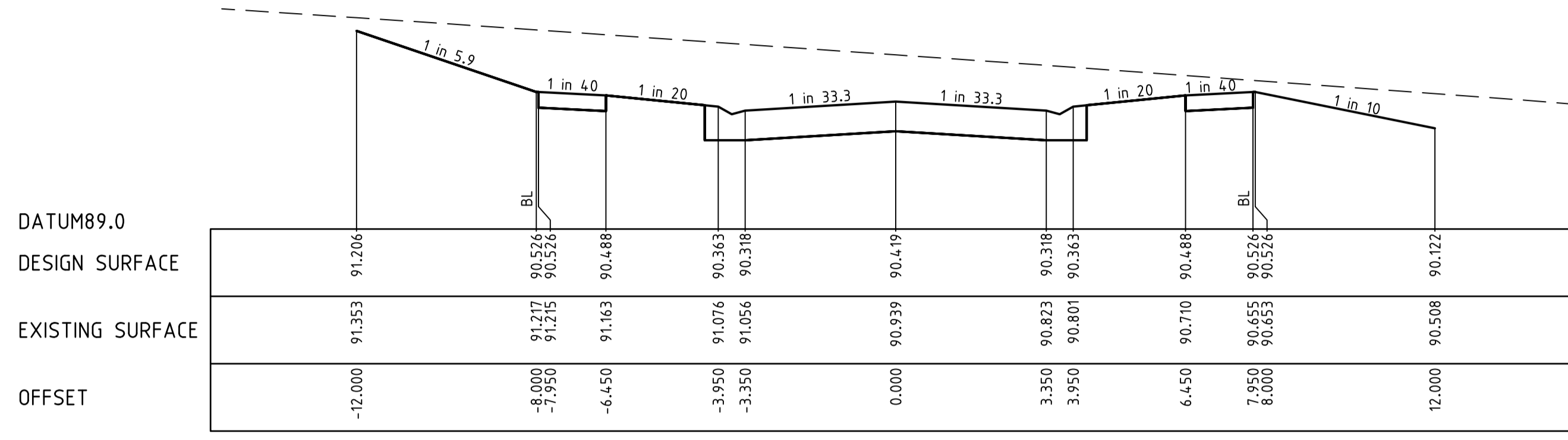
Engineering Design | Development Coordination | Construction Management

**175 MCGLONE ROAD, DROUIN**  
DETAILED DESIGN - STAGE 5  
BAW BAW SHIRE COUNCIL - PLA0382/16  
ROADWORKS & DRAINAGE  
CROSS SECTIONS - CART DRIVE  
CH26.962 - CH113.290

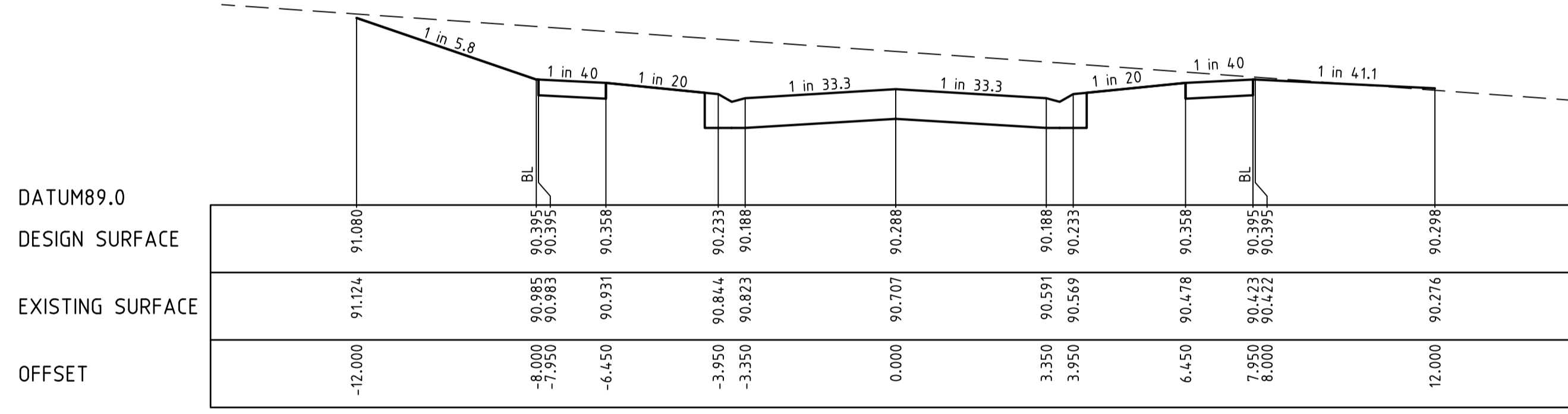
Drawing No. 16028-05-06  
Sheet No. 06 of 16

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

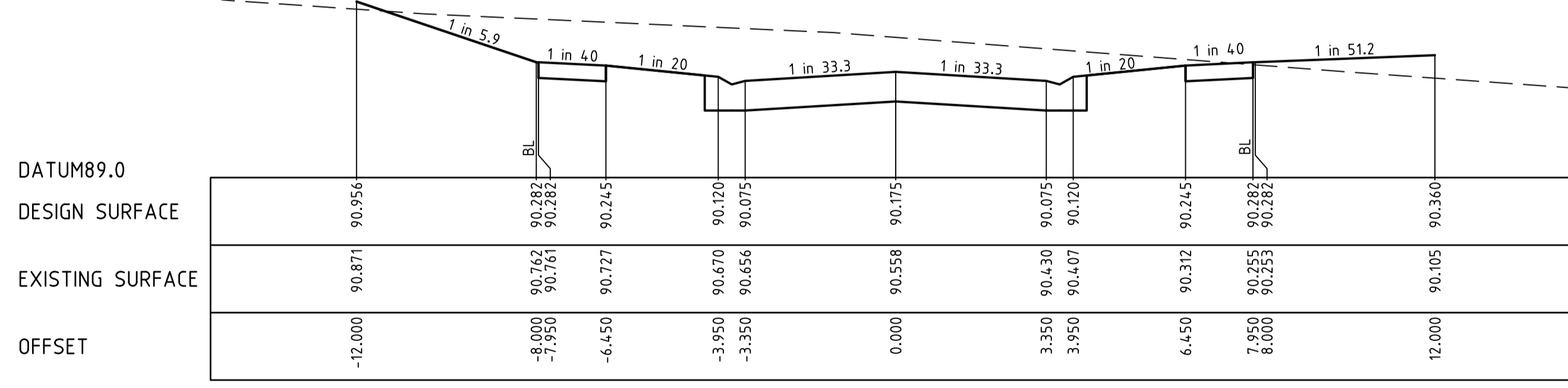
---	EXISTING SURFACE
---	DESIGN LINE
---	FUTURE DESIGN LINE



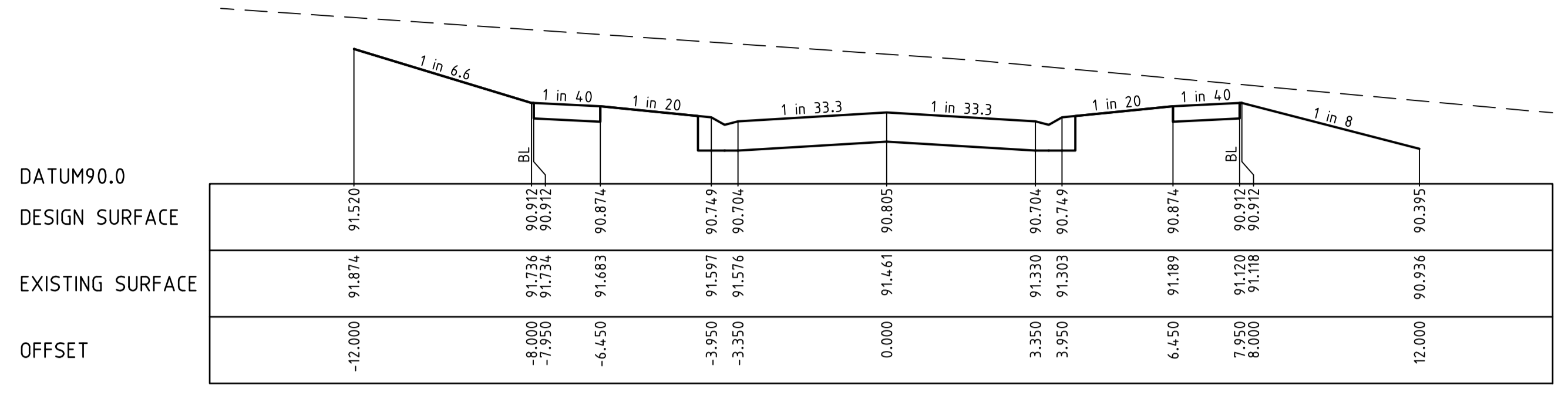
RTP CH 139.923



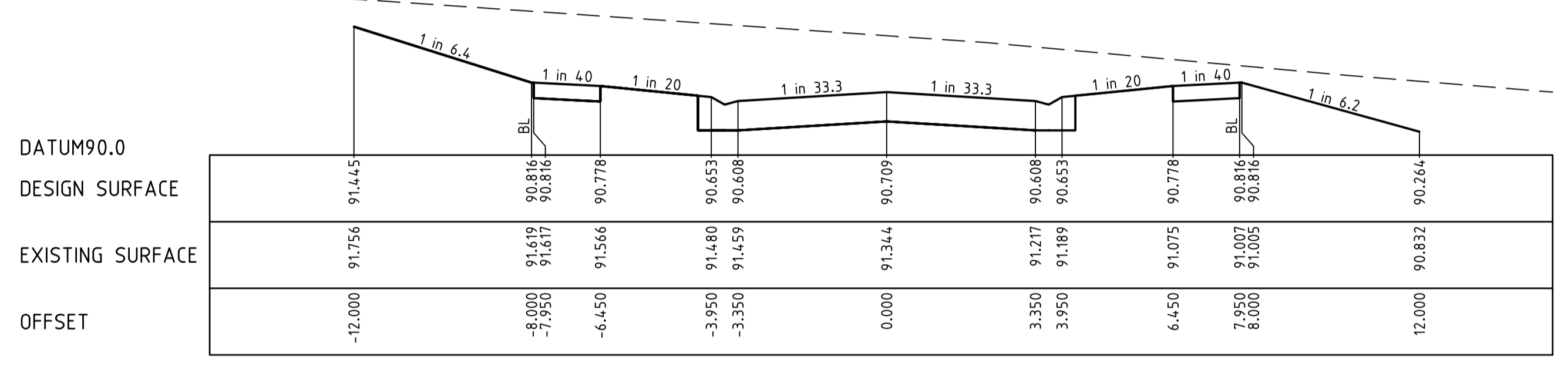
CH 127.290



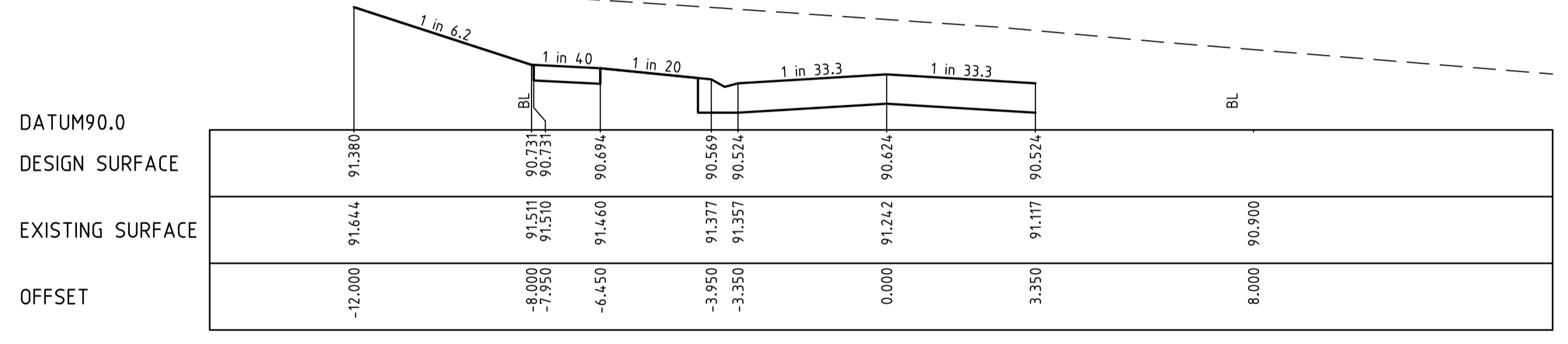
CH 114.867



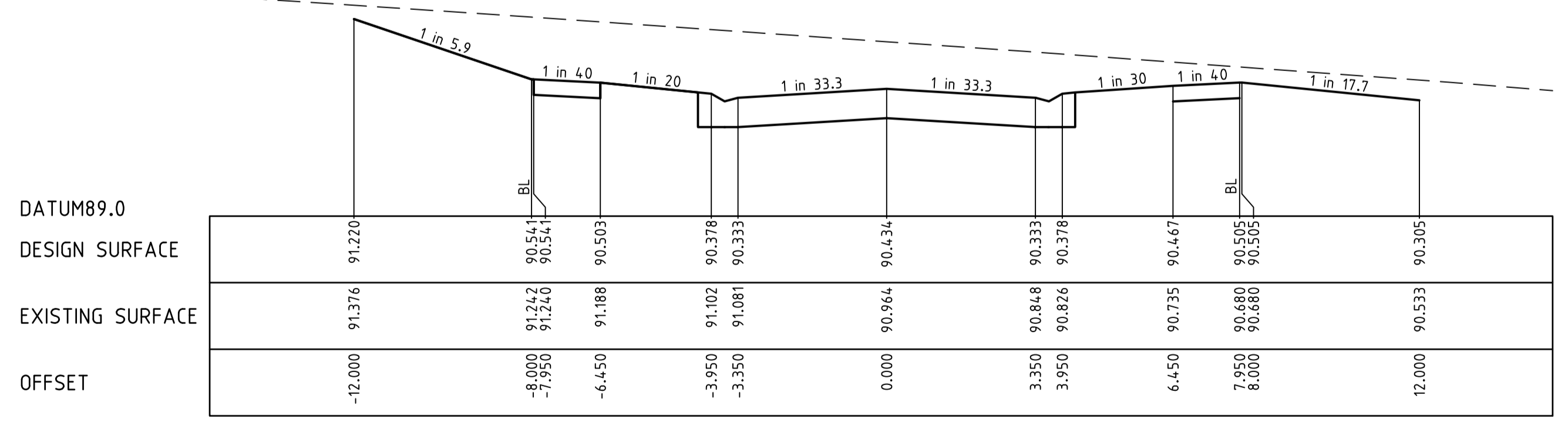
CH 171.290



RTP CH 163.823



CH 157.290 (WITHIN INTERSECTION)



CH 141.290

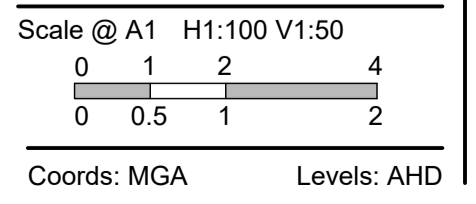
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REVISION	DATE	DES/DT	APPD
1	31.05.22	AC/AC	KT
C	02.08.21	AC/AC	KT
B	10.06.21	AC/AC	KT
A	30.10.20	AC/AC	KT

## THE FAIRWAYS

Principal  
Seebo Properties Pty Ltd  
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Berwick, VIC, 3806

Designed  
A.Cantwell  
Drawn  
A.Cantwell  
Checked  
K.Taylor  
Authorised  
K.Taylor  
Date  
October 2020



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Engineering Design | Development Coordination | Construction Management

**175 MCGLONE ROAD, DROUIN**  
DETAILED DESIGN - STAGE 5  
BAW BAW SHIRE COUNCIL - PLA0382/16  
ROADWORKS & DRAINAGE  
CROSS SECTIONS - CART DRIVE  
CH114.867 - CH171.290  
Drawing No. 16028-05-07

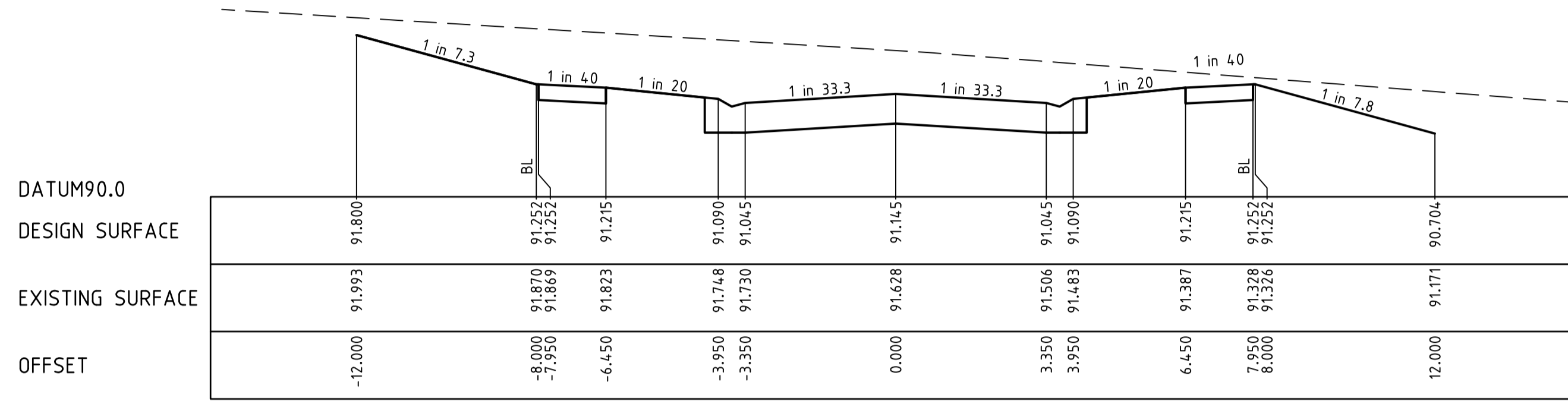
Sheet No. 07 of 16

Rev 1

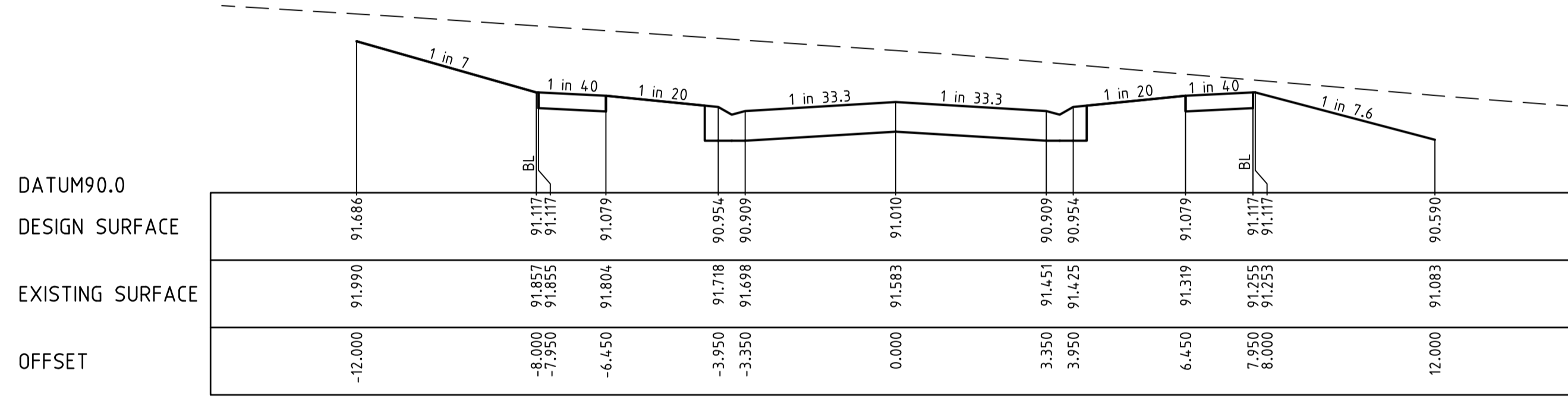
AS CONSTRUCTED

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

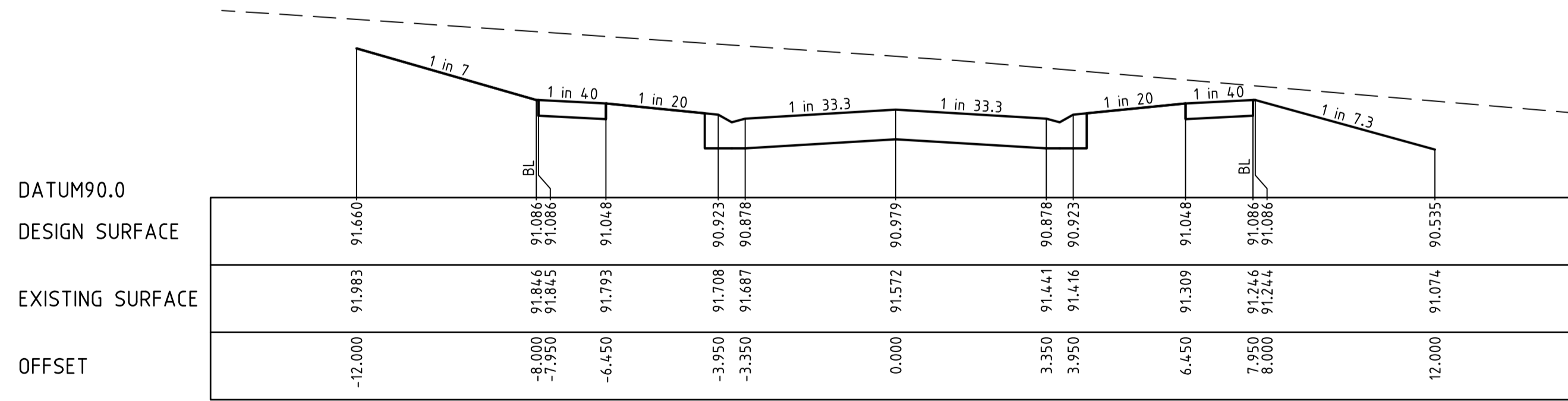
---	EXISTING SURFACE
---	DESIGN LINE
---	FUTURE DESIGN LINE



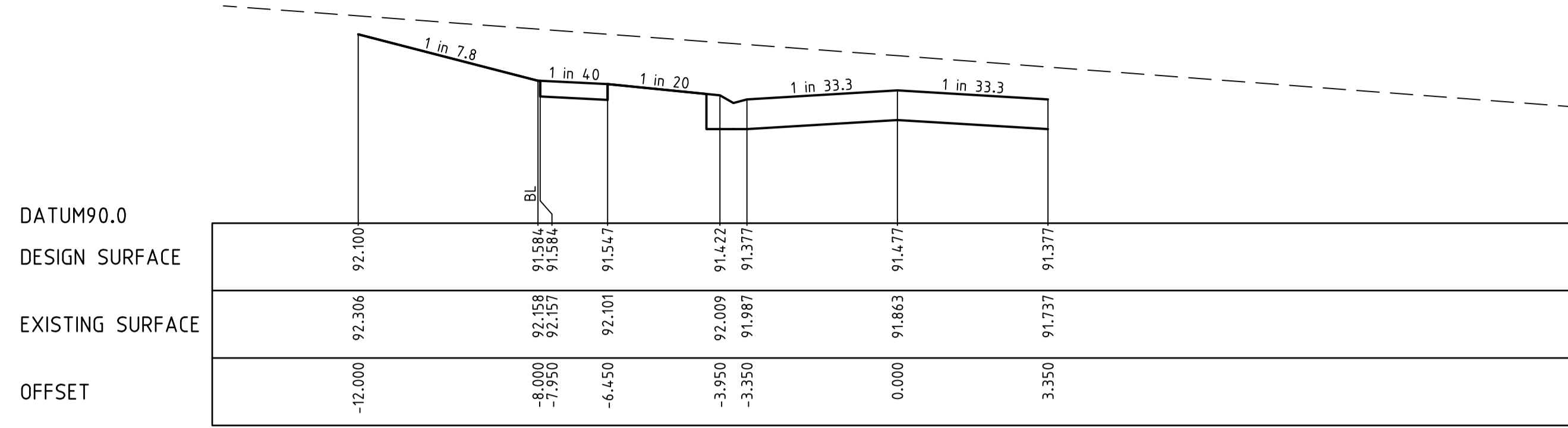
CH 199.290



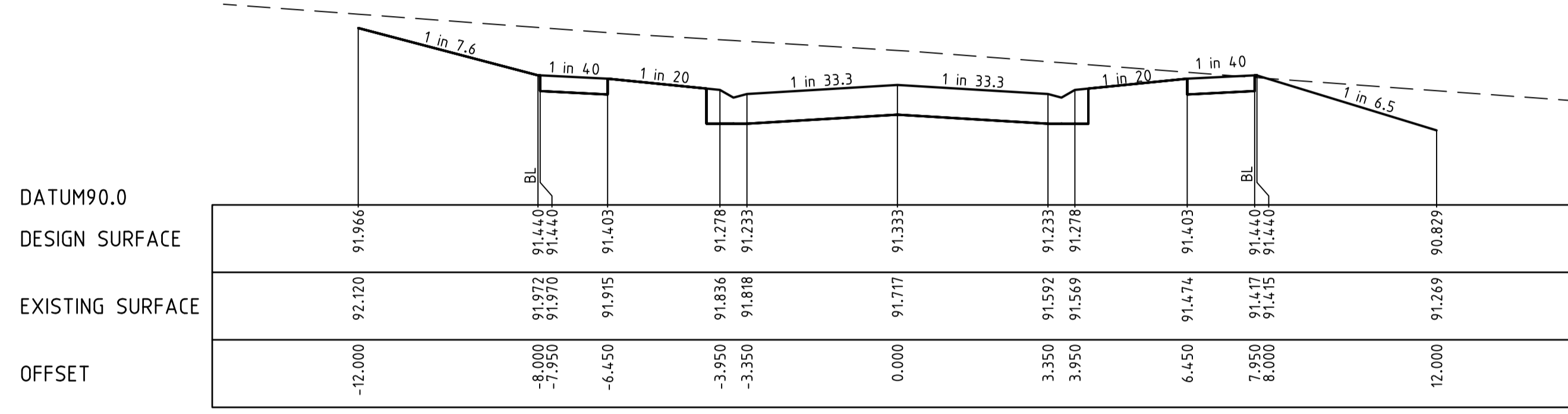
CH 187.869



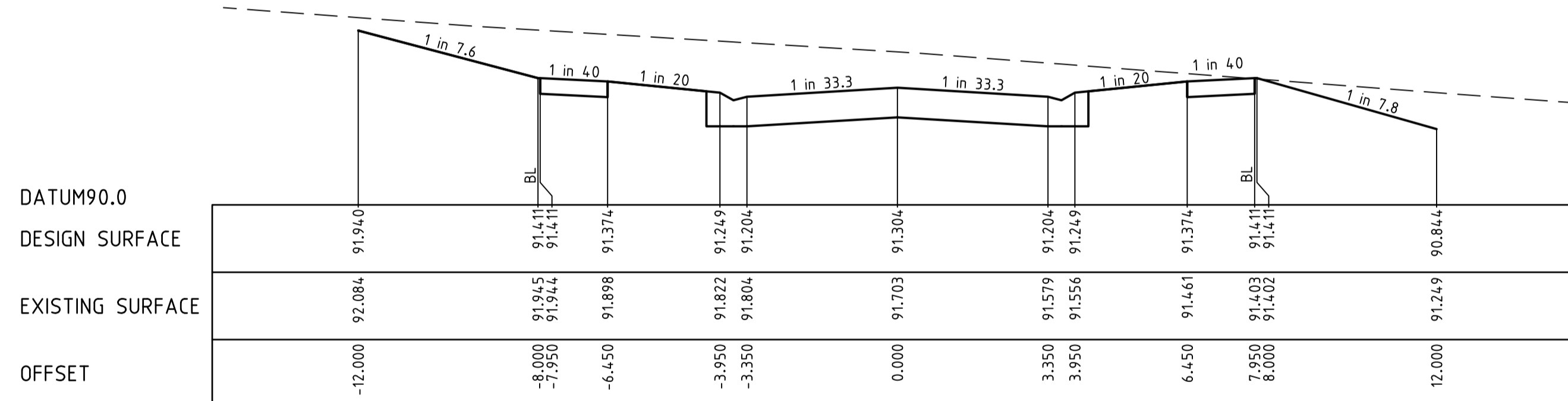
CH 185.290



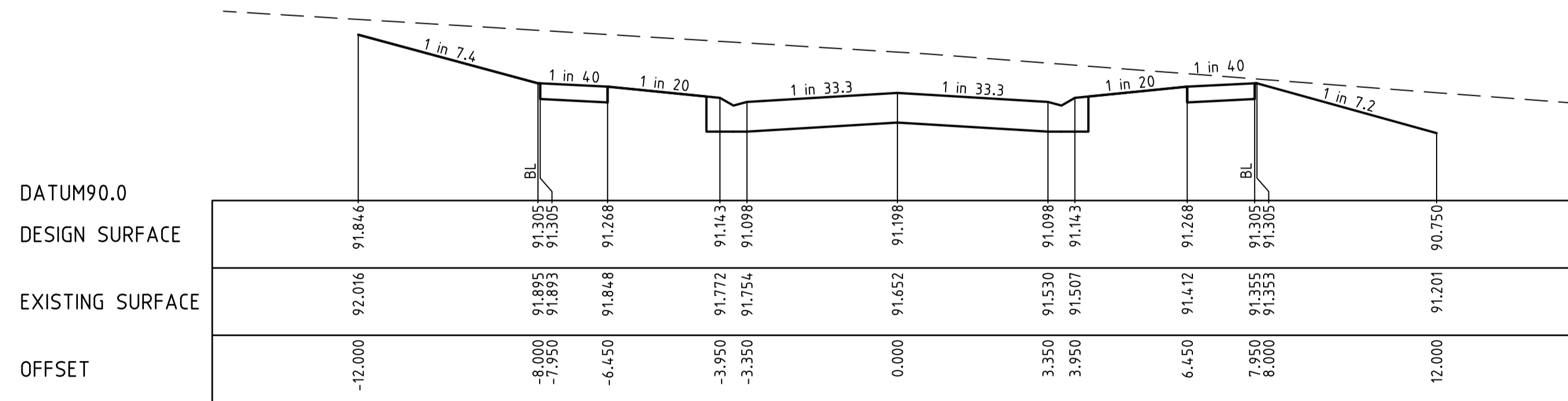
CH 229.290 (WITHIN INTERSECTION)



RTP CH 215.923



CH 213.290



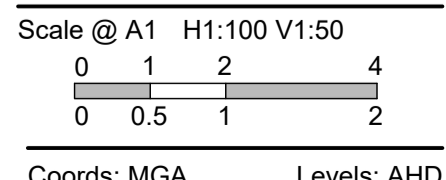
CH 203.868

1	AS CONSTRUCTED ISSUE	31.05.22	AC/AC	KT
C	ISSUED FOR CONSTRUCTION	02.08.21	AC/AC	KT
B	AMENDED AS PER COUNCIL COMMENTS RECEIVED 09/06/21	10.06.21	AC/AC	KT
A	INITIAL ISSUE	30.10.20	AC/AC	KT
REVISION		DATE	DES/DT	APPD

**THE FAIRWAYS**

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Drawn  
A.Cantwell  
Checked  
K.Taylor  
Authorised  
K.Taylor  
Date  
October 2020



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**175 MCGLONE ROAD, DROUIN**  
DETAILED DESIGN - STAGE 5  
BAW BAW SHIRE COUNCIL - PLA0382/16  
ROADWORKS & DRAINAGE  
CROSS SECTIONS - CART DRIVE  
CH185.290 - CH229.290  
Drawing No. 16028-05-08

Sheet No. 08 of 16

Rev 1

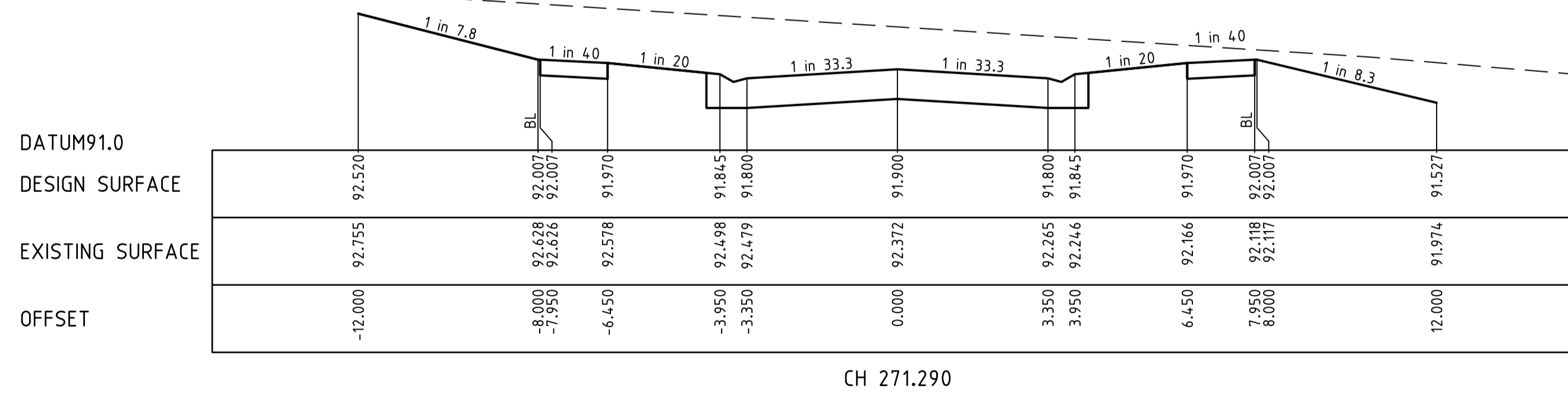
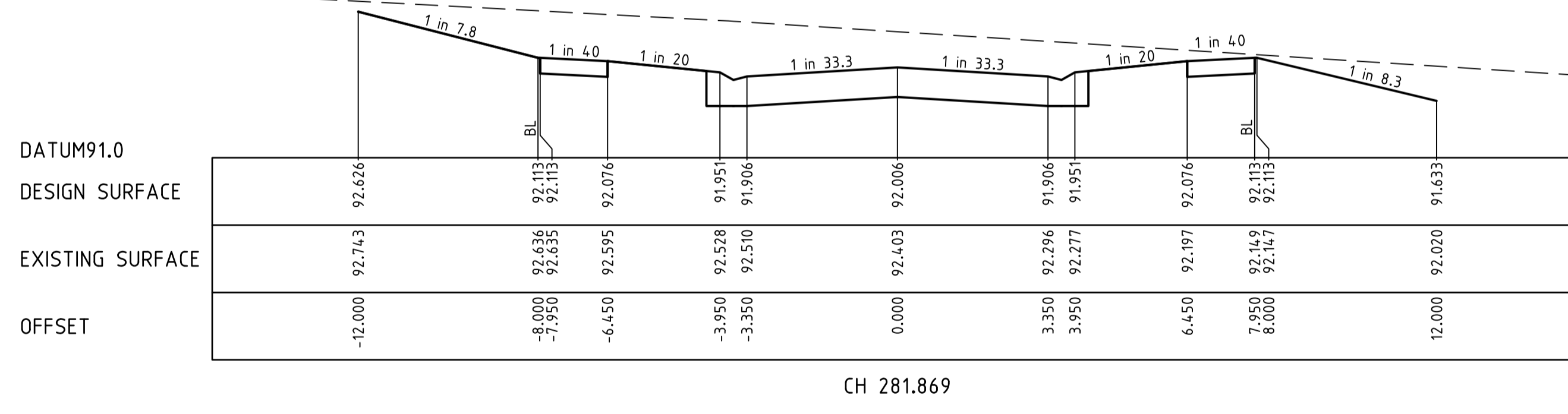
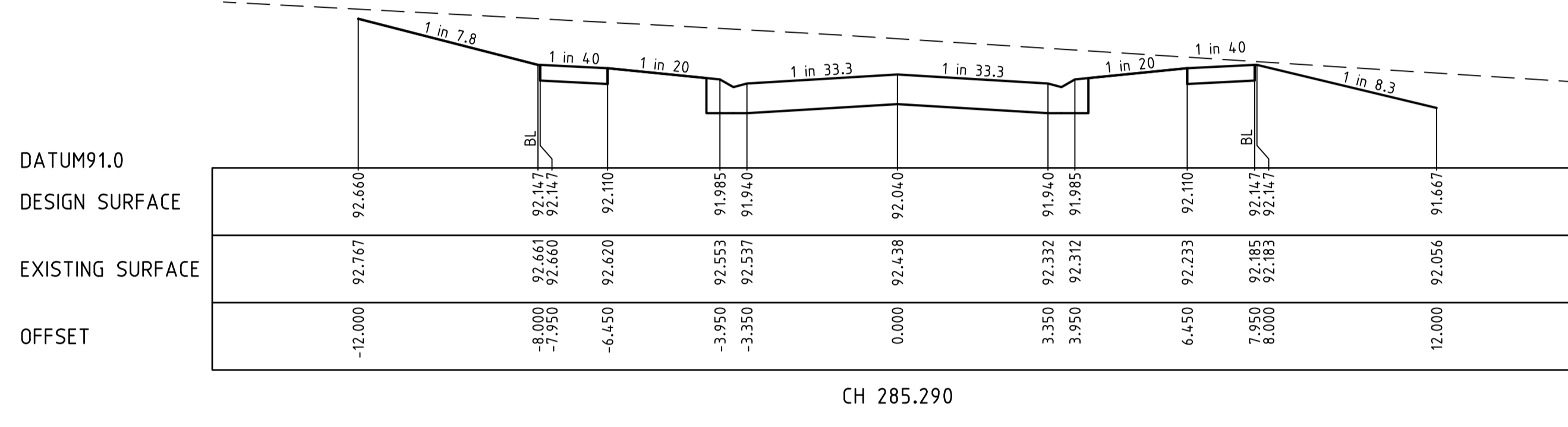
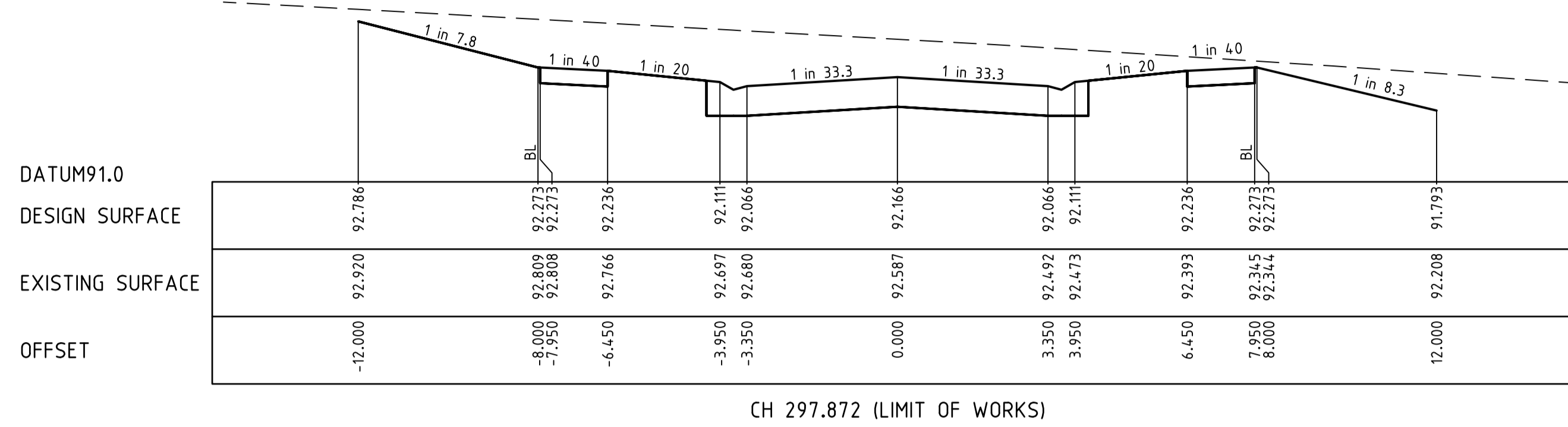
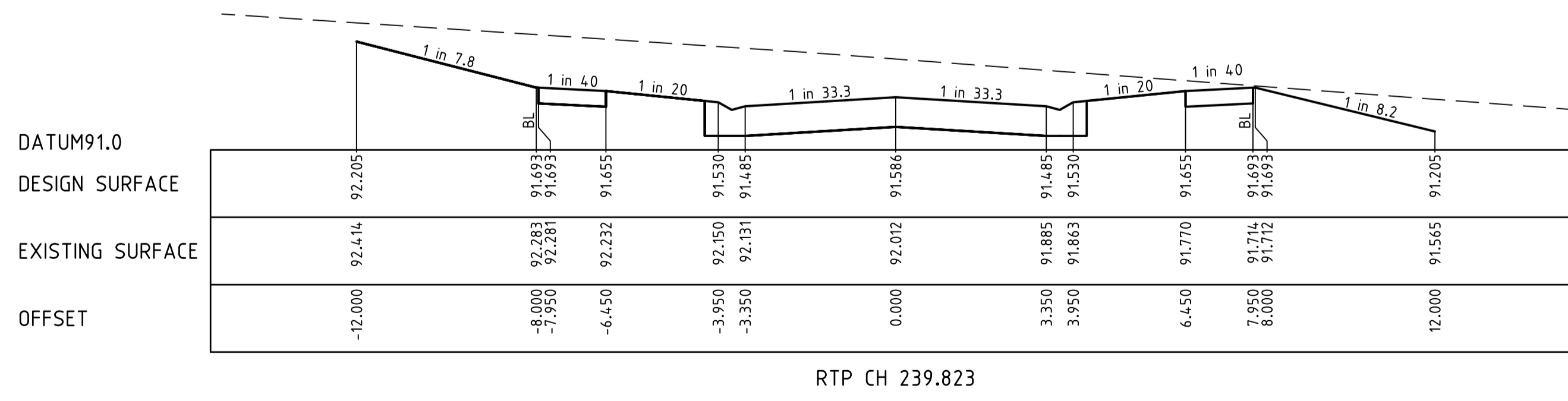
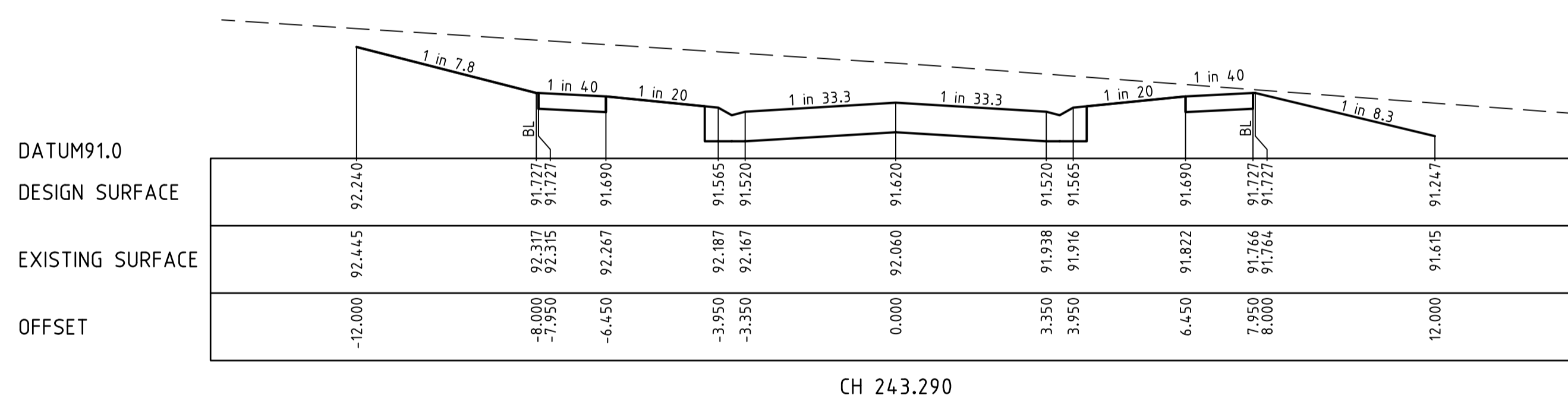
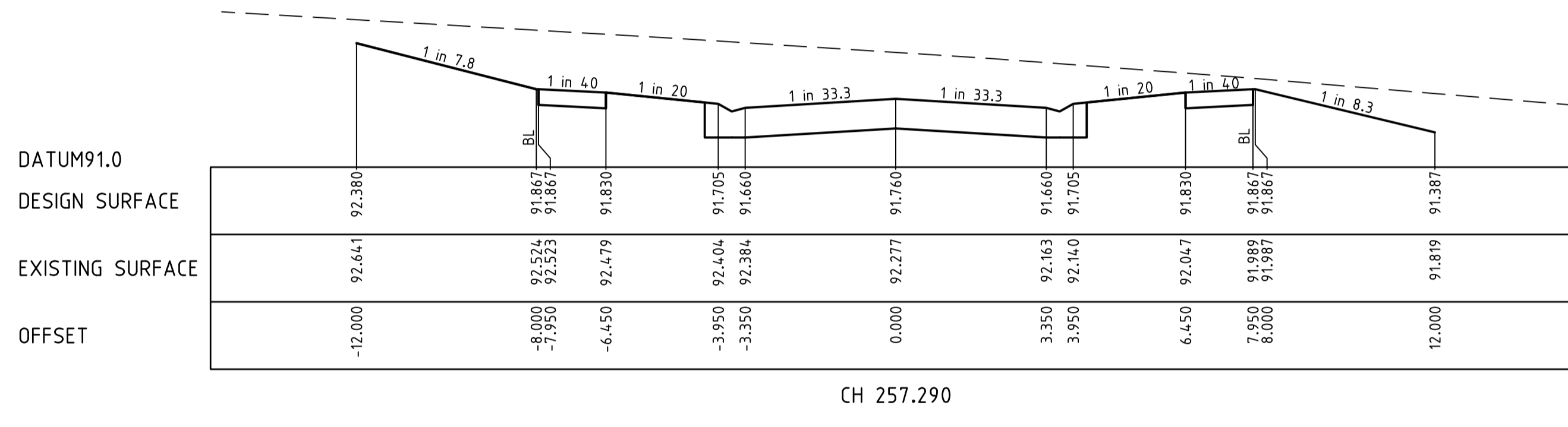
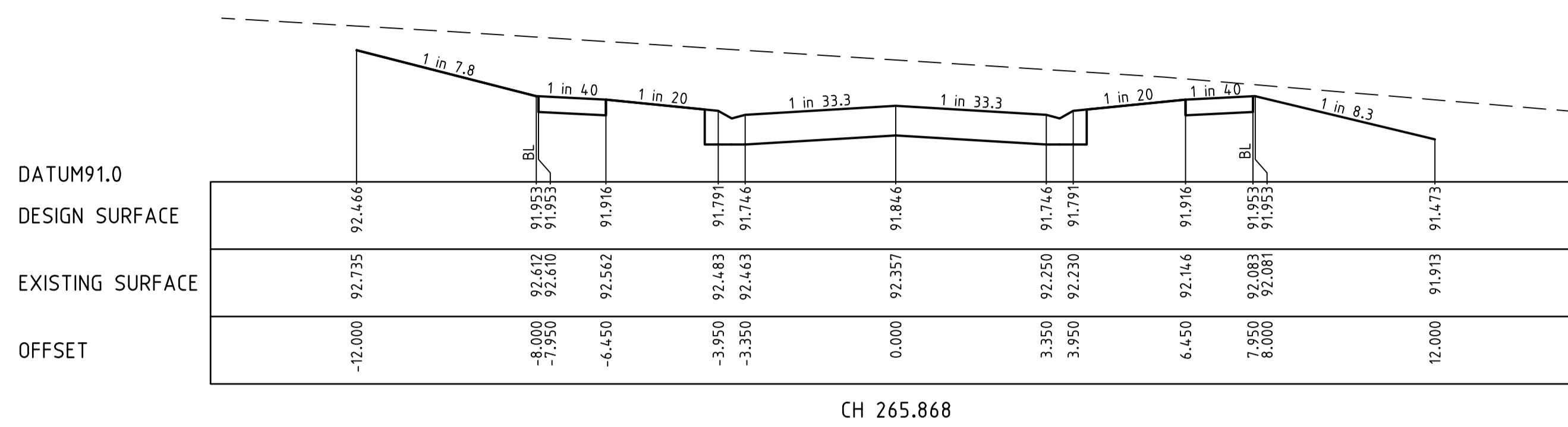
AS CONSTRUCTED

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STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

---	EXISTING SURFACE
---	DESIGN LINE
---	FUTURE DESIGN LINE



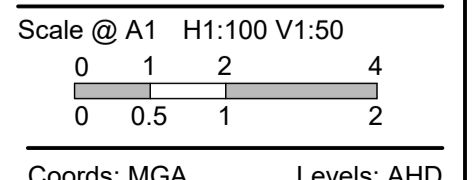
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REVISION	DATE	DESIGN	APPD
1	31.05.22	AC/AC	KT
C	02.08.21	AC/AC	KT
B	10.06.21	AC/AC	KT
A	30.10.20	AC/AC	KT

### THE FAIRWAYS

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Berwick, VIC, 3806

Designed  
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Drawn  
A.Cantwell  
Checked  
K.Taylor  
Authorised  
K.Taylor  
Date  
October 2020



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**175 MCGLONE ROAD, DROUIN**  
DETAILED DESIGN - STAGE 5  
BAW BAW SHIRE COUNCIL - PLA0382/16  
ROADWORKS & DRAINAGE  
CROSS SECTIONS - CART DRIVE  
CH239.823 - CH297.872  
Drawing No. 16028-05-09

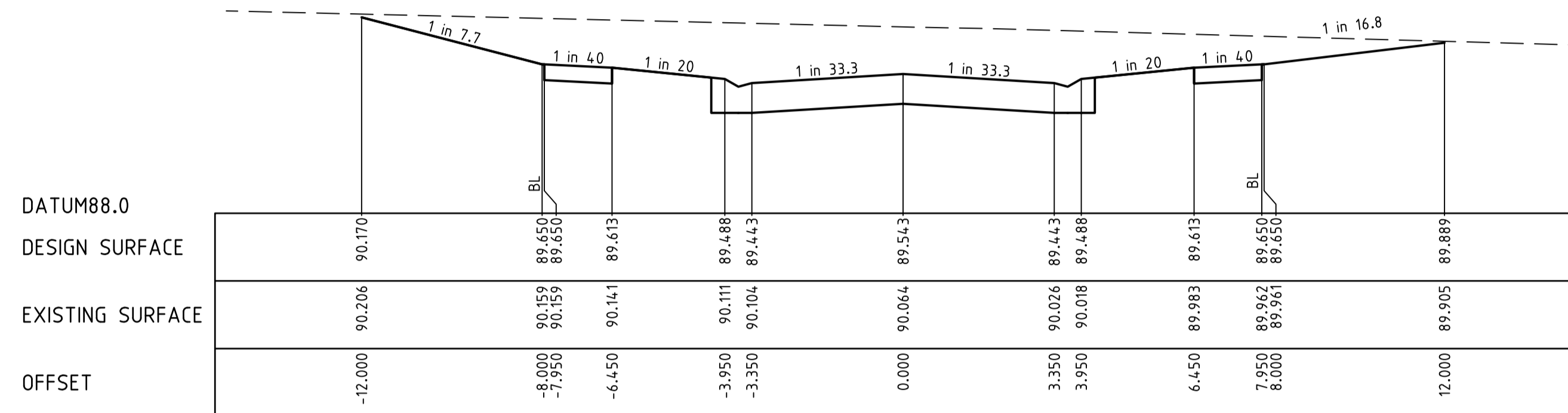
Sheet No. 09 of 16

Rev 1

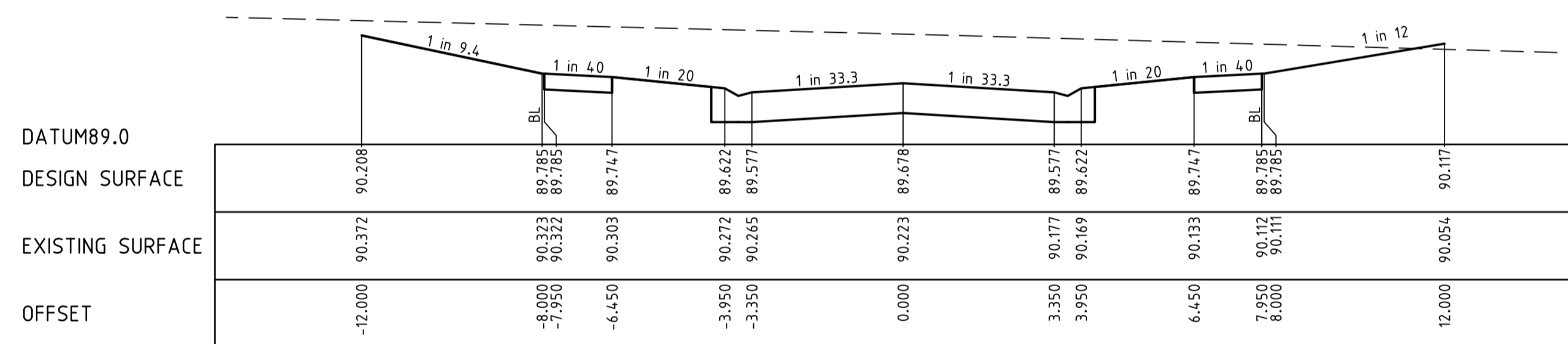
AS CONSTRUCTED

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

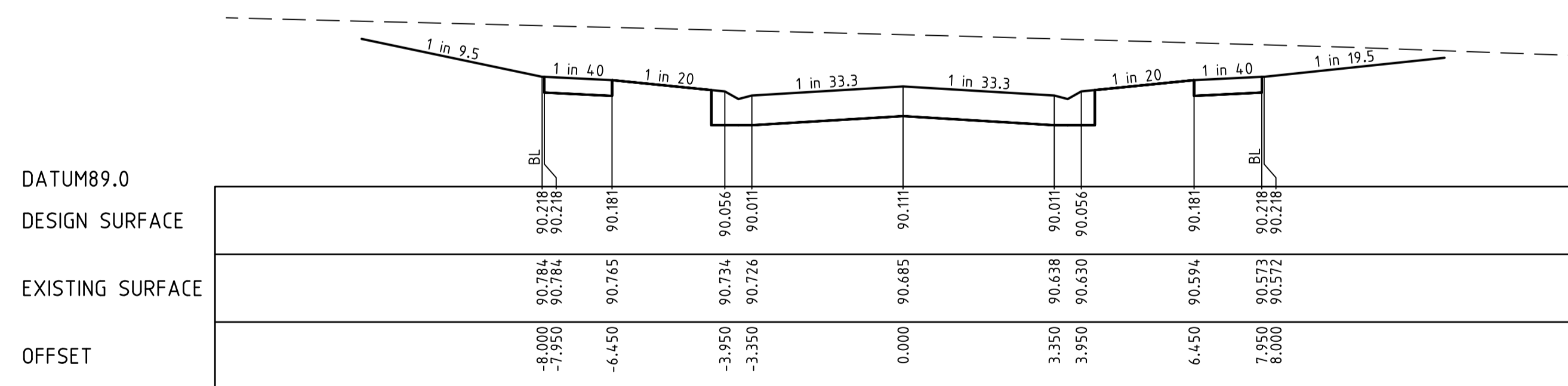
LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE



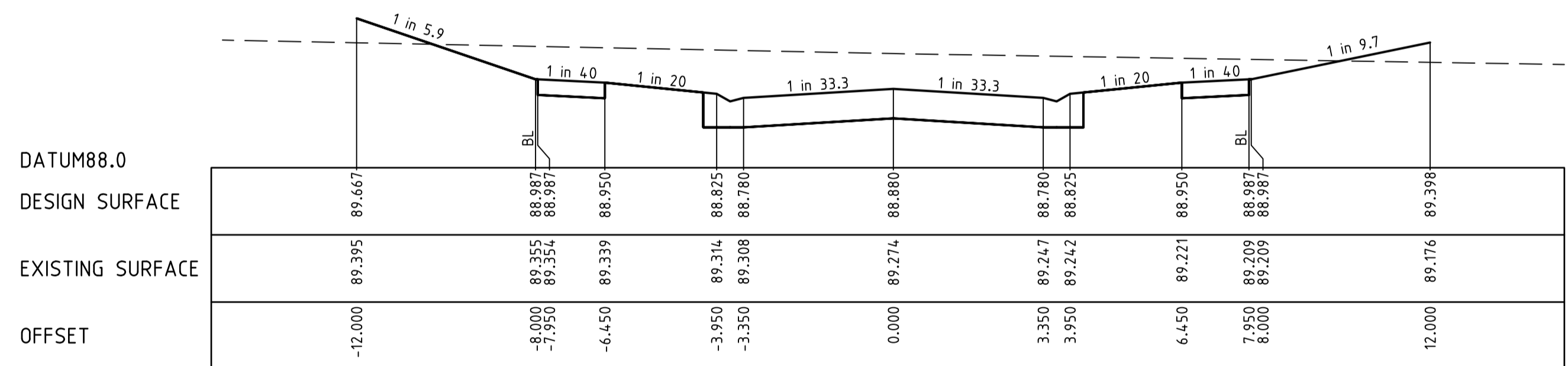
CH 27.123



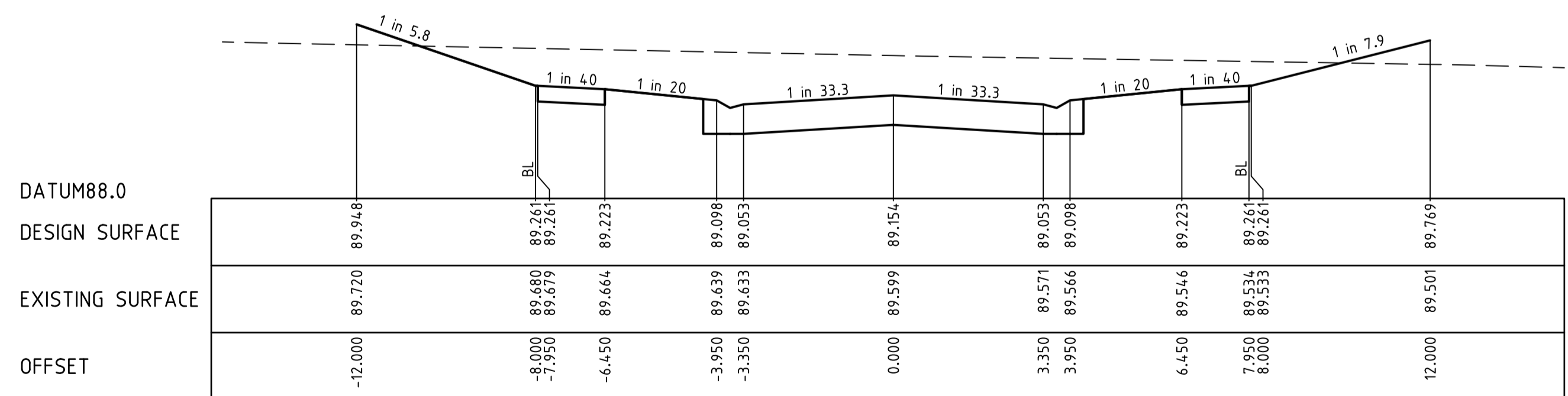
CH 23.306



LTP CH 11.976



CH 46.123 (LIMIT OF WORKS)



CH 38.306

REVISION	DATE	DES/DT	APPD
1	AS CONSTRUCTED ISSUE	31.05.22	AC/AC KT
C	ISSUED FOR CONSTRUCTION	02.08.21	AC/AC KT
B	AMENDED AS PER COUNCIL COMMENTS RECEIVED 09/06/21	10.06.21	AC/AC KT
A	INITIAL ISSUE	30.10.20	AC/AC KT

**THE FAIRWAYS**

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Drawn  
A.Cantwell  
Checked  
K.Taylor  
Authorised  
K.Taylor  
Date  
October 2020

Scale @ A1 H1:100 V1:50  
0 1 2 4  
0 0.5 1 2  
Coords: MGA Levels: AHD

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**175 MCGLONE ROAD, DROUIN**  
DETAILED DESIGN - STAGE 5  
BAW BAW SHIRE COUNCIL - PLA0382/16  
ROADWORKS & DRAINAGE  
CROSS SECTIONS - RUFFELS STREET

Drawing No. 16028-05-10  
Sheet No. 10 of 16

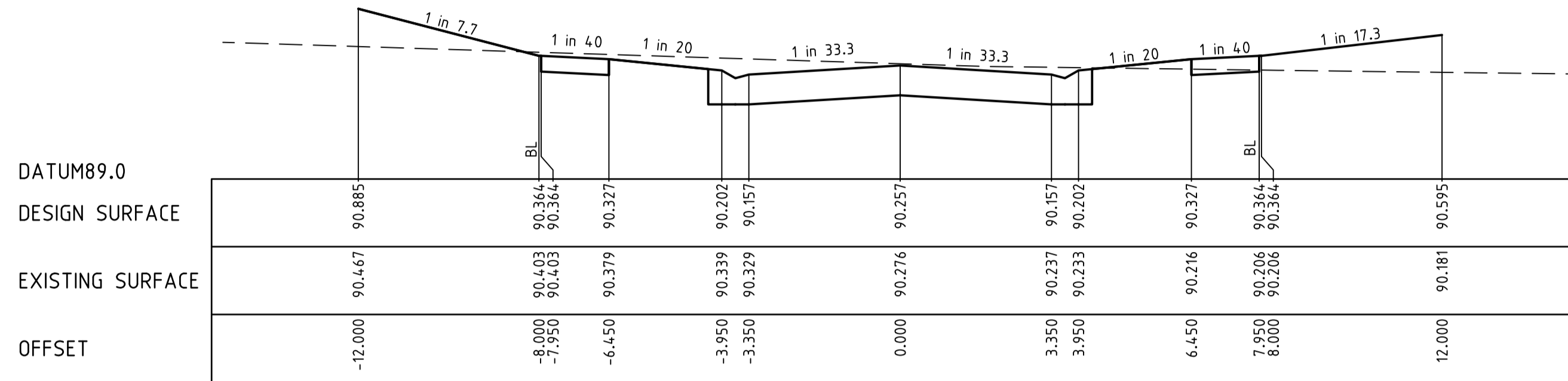
Rev 1

AS CONSTRUCTED

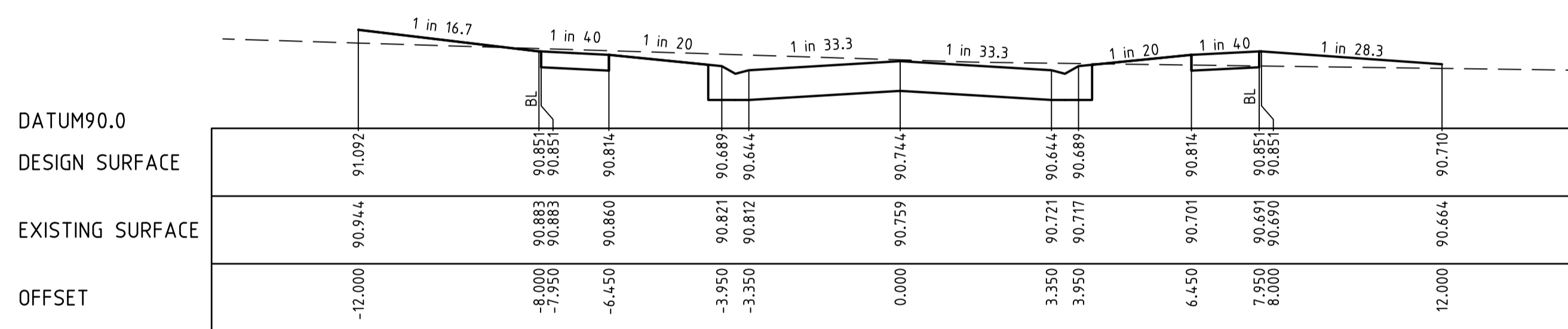
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STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

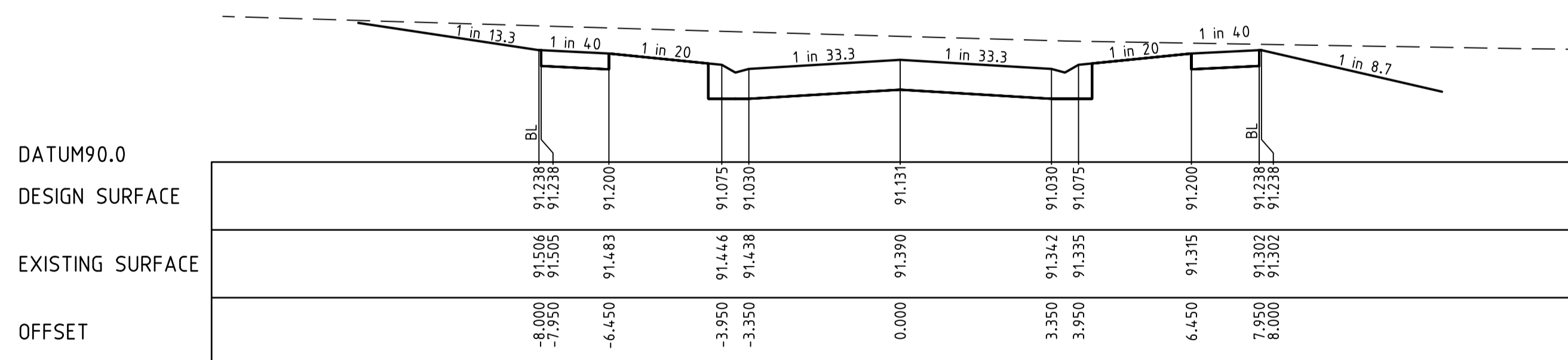
LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE



CH 39.461 (LIMIT OF WORKS)



CH 27.923



LTP CH 11.976

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REVISION	DATE	DESIGN	APPD
A	30.10.20	AC/AC	KT
B	10.06.21	AC/AC	KT
C	02.08.21	AC/AC	KT
1	31.05.22	AC/AC	KT

## THE FAIRWAYS

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A.Cantwell  
Checked  
K.Taylor  
Authorised  
K.Taylor  
Date  
October 2020

Scale @ A1 H1:100 V1:50  
0 1 2 4  
0 0.5 1 2  
Coords: MGA Levels: AHD

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**175 MCGLONE ROAD, DROUIN**  
DETAILED DESIGN - STAGE 5  
BAW BAW SHIRE COUNCIL - PLA0382/16  
ROADWORKS & DRAINAGE  
CROSS SECTIONS - BRIDGES STREET

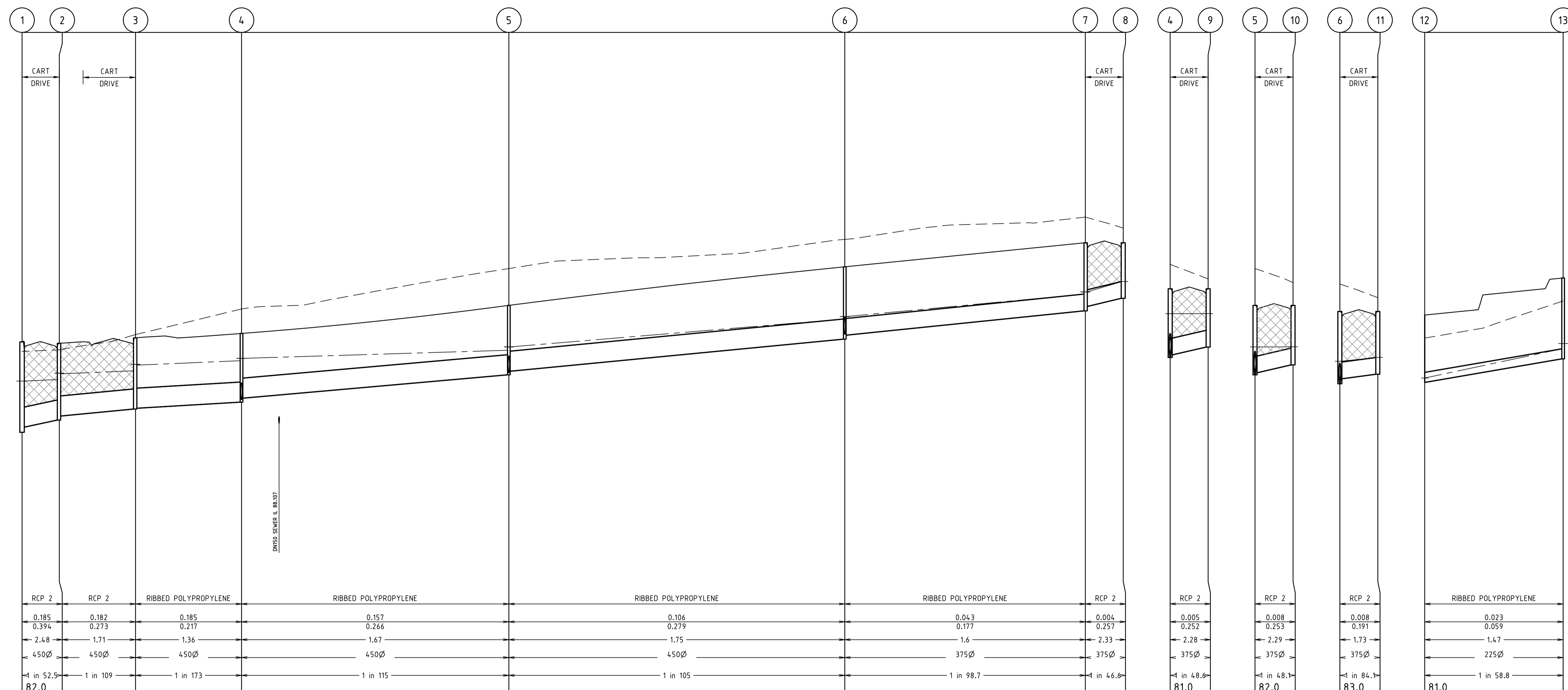
Drawing No. 16028-05-11  
Sheet No. 11 of 16

Rev 1

AS CONSTRUCTED

ALL PIPES TO BE RRJ CLASS 2 UNLESS OTHERWISE SHOWN

LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CLASS 2 CRB
	CLASS 3 CRB



	1	2	3	4	5	6	7	8	9	10	11	12	13
DESIGN FLOW (m <sup>3</sup> /s)	0.185	0.182	0.185		0.157		0.106		0.004	0.005	0.008		0.023
CAPACITY (m <sup>3</sup> /s)	0.394	0.273	0.217		0.266		0.279		0.257	0.252	0.253		0.059
AT GRADE VELOCITY (m/s)	2.48	1.71	1.36		1.67		1.75		2.33	2.28	2.29		1.47
PIPE SIZE (mm)	450Ø	450Ø	450Ø		450Ø		450Ø		375Ø	375Ø	375Ø		225Ø
GRADE DATUM	82.0	1 in 109	1 in 173		1 in 115		1 in 105		1 in 98.7	1 in 48.6	1 in 48.7		1 in 58.8
DEPTH TO INVERT	2.024	1.909	1.593		1.450		1.620		1.525	1.481	1.508		1.812
HYDRAULIC GRADE LINE	88.992	88.992	89.223		89.448		90.381		90.940	90.381	90.436		88.714
INVERT LEVEL	87.845	87.960	88.365		88.520		89.931		90.565	88.578	89.501		88.489
FINISHED SURFACE LEVELS	89.869	88.119	89.958		90.059		91.551		92.090	90.686	90.354		90.301
EXISTING SURFACE LEVEL	89.655	89.692	90.034		90.606		92.165		92.664	91.177	91.196		88.955
CHAINAGE (Reach Length)	0.000	8.341	25.405		49.147		184.238		238.108	8.500	8.514		31.000

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REVISION	DATE	DES/DT	APPD
1	AS CONSTRUCTED ISSUE	31.05.22	AC/AC KT
C	ISSUED FOR CONSTRUCTION	02.08.21	AC/AC KT
B	AMENDED AS PER COUNCIL COMMENTS RECEIVED 09/06/21	10.06.21	AC/AC KT
A	INITIAL ISSUE	30.10.20	AC/AC KT

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Drawn  
A.Cantwell

Checked  
K.Taylor

Authorised  
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Date  
October 2020

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Scale @ A1 H1:500 V1:50  
0 5 10 20  
0 0.5 1 2

Coords: MGA Levels: AHD

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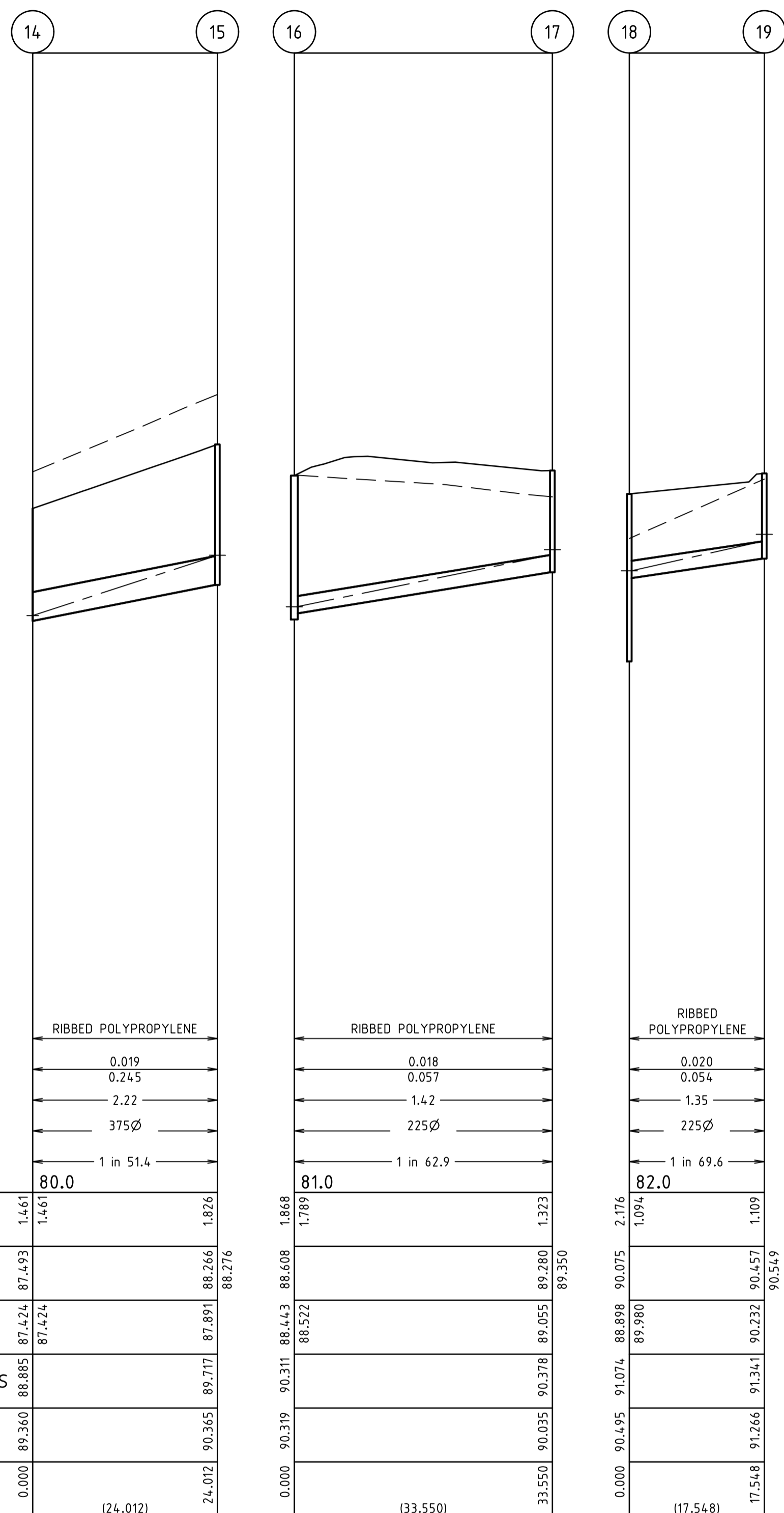
**175 MCGLONE ROAD, DROUIN**  
DETAILED DESIGN - STAGE 5  
BAW BAW SHIRE COUNCIL - PLA0382/16  
ROADWORKS & DRAINAGE  
DRAINAGE LONGITUDINAL SECTIONS - 1

Drawing No. 16028-05-12  
Sheet No. 12 of 16

Rev 1  
AS CONSTRUCTED

ALL PIPES TO BE RRJ CLASS 2 UNLESS OTHERWISE SHOWN

LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CLASS 2 CRB
	CLASS 3 CRB



DESIGN FLOW (m<sup>3</sup>/s)  
CAPACITY (m<sup>3</sup>/s)  
AT GRADE VELOCITY (m/s)  
PIPE SIZE (mm)  
GRADE  
DATUM

DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE (Reach Length)
1.461	87.493	87.424	88.885	89.360	0.000
1.826	88.266	87.424	89.717	90.365	24.012

DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE (Reach Length)
1.789	88.522	88.522	90.311	90.319	0.000
1.323	89.280	89.055	90.378	90.035	33.550

DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE (Reach Length)
1.094	89.980	89.980	91.074	90.495	0.000
1.109	90.457	90.232	91.341	91.266	17.548

PIT SCHEDULE											
PIT NAME	TYPE	INTERNAL		INLET		OUTLET		COVER LEVEL (m)	DEPTH (m)	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIA (mm)	INVERT RL (m)	DIA (mm)	INVERT RL (m)				
1	SIDE ENTRY PIT	900	900	450	87.960	675	87.883	89.869	1.986	IDM SD 430	HAUNCHED PIT AS PER IDM SD 410 MELBOURNE WATER SCHEME WORKS
2	SIDE ENTRY PIT	900	900	450	88.209	450	88.119	89.838	1.719	IDM SD 440	HAUNCHED PIT AS PER IDM SD 410
3	JUNCTION PIT	900	900	450	88.383	450	88.365	89.958	1.593	IDM SD 420	HAUNCHED PIT AS PER IDM SD 410
4	SIDE ENTRY PIT	900	900	450	88.609	450	88.52	90.059	1.539	IDM SD 440	HAUNCHED PIT AS PER IDM SD 410
5	SIDE ENTRY PIT	900	900	450	89.212	450	89.131	90.687	1.556	IDM SD 440	HAUNCHED PIT AS PER IDM SD 410
6	SIDE ENTRY PIT	900	900	375	90.019	450	89.931	91.551	1.620	IDM SD 440	HAUNCHED PIT AS PER IDM SD 410
7	SIDE ENTRY PIT	900	600	375	90.663	375	90.565	92.090	1.525	IDM SD 440	
8	SIDE ENTRY PIT	900	600			375	90.845	92.089	1.244	IDM SD 440	
9	SIDE ENTRY PIT	900	600			375	88.753	90.059	1.306	IDM SD 440	
10	SIDE ENTRY PIT	900	600			375	89.354	90.686	1.332	IDM SD 440	
11	SIDE ENTRY PIT	900	600			375	90.144	91.551	1.407	IDM SD 440	
12	ENDPIPE	900	600	225	87.961			89.470	1.509		
13	JUNCTION PIT	900	600			225	88.489	90.301	1.812	IDM SD 426	
14	ENDPIPE			375	87.424			88.885	1.461		
15	JUNCTION PIT	900	600			375	87.891	89.717	1.826	IDM SD 420	
16	JUNCTION PIT	900	600	225	88.522	375		90.311	1.868	IDM SD 420	
17	JUNCTION PIT	900	600			225	89.055	90.378	1.323	IDM SD 426	
18	JUNCTION PIT	900	600	225	89.980	300	88.897	91.074	2.176	IDM SD 426	
19	JUNCTION PIT	900	600			225	90.232	91.341	1.109	IDM SD 426	

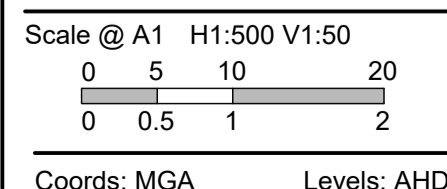
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REVISION	DATE	DES/DF	APPD
1	31.05.22	AC/AC	KT
C	02.08.21	AC/AC	KT
B	10.06.21	AC/AC	KT
A	30.10.20	AC/AC	KT

**THE FAIRWAYS**

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A.Cantwell  
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Authorised  
K.Taylor  
Date  
October 2020



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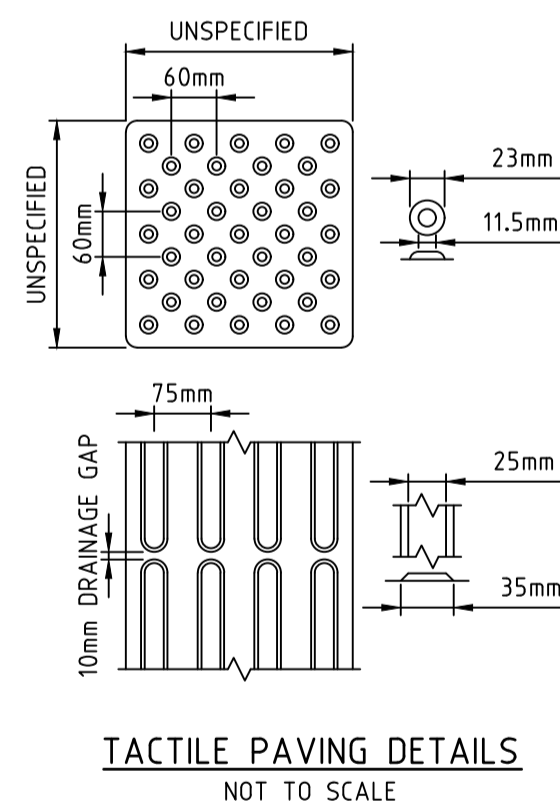
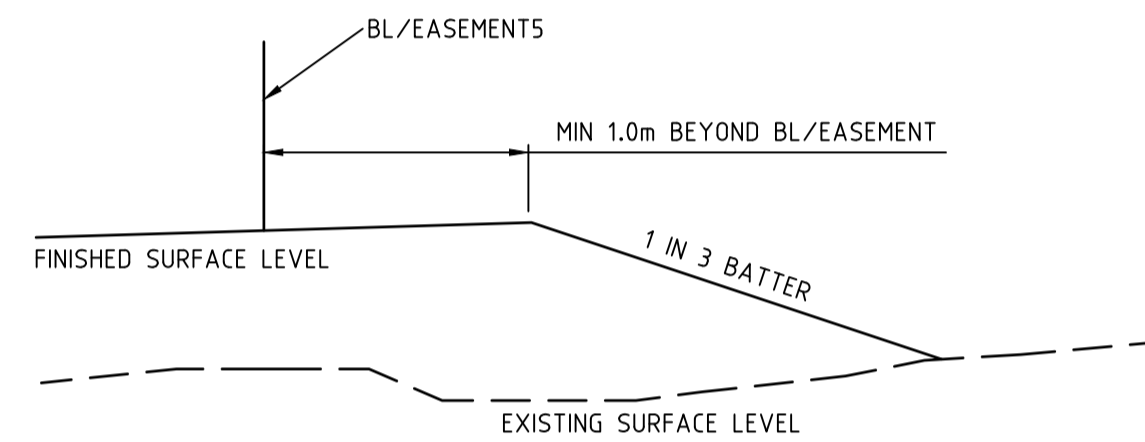
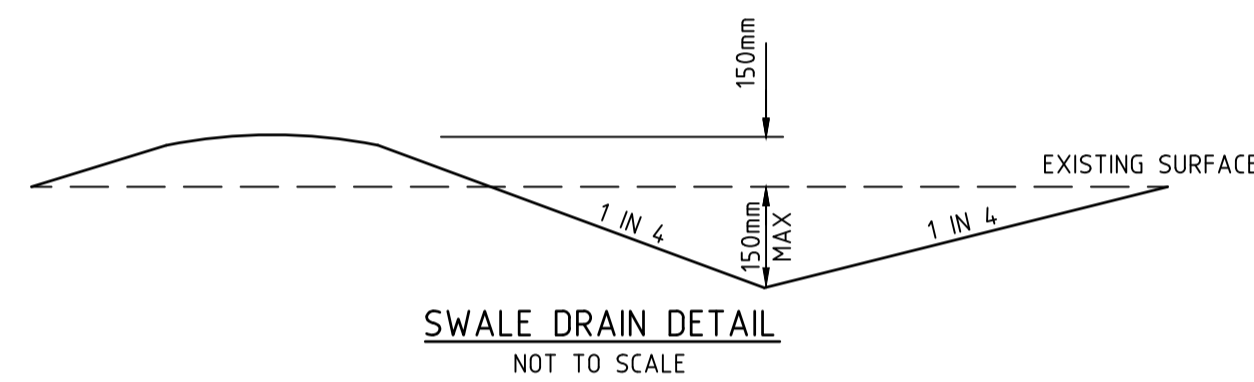
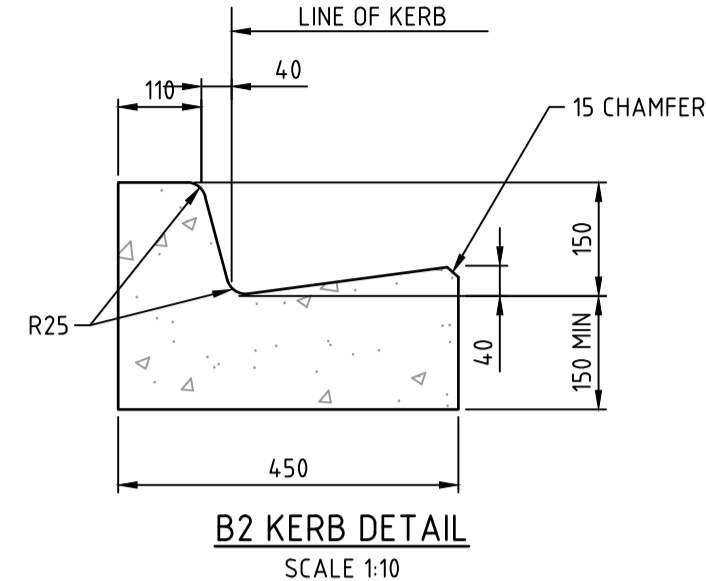
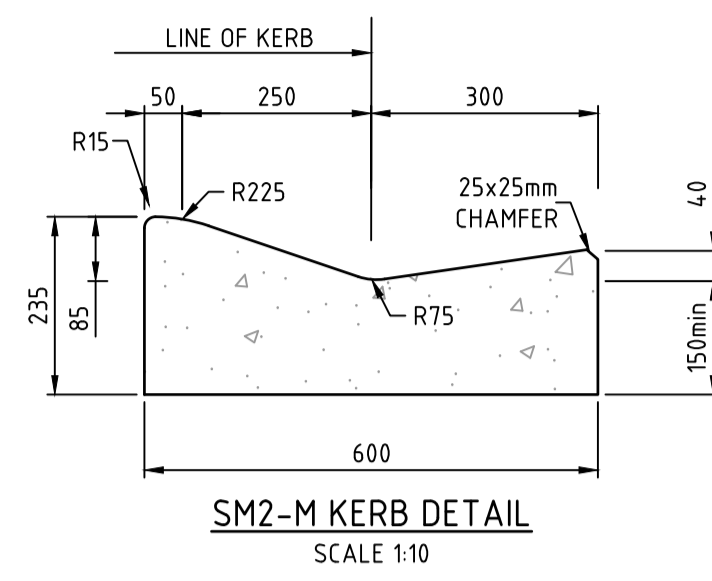
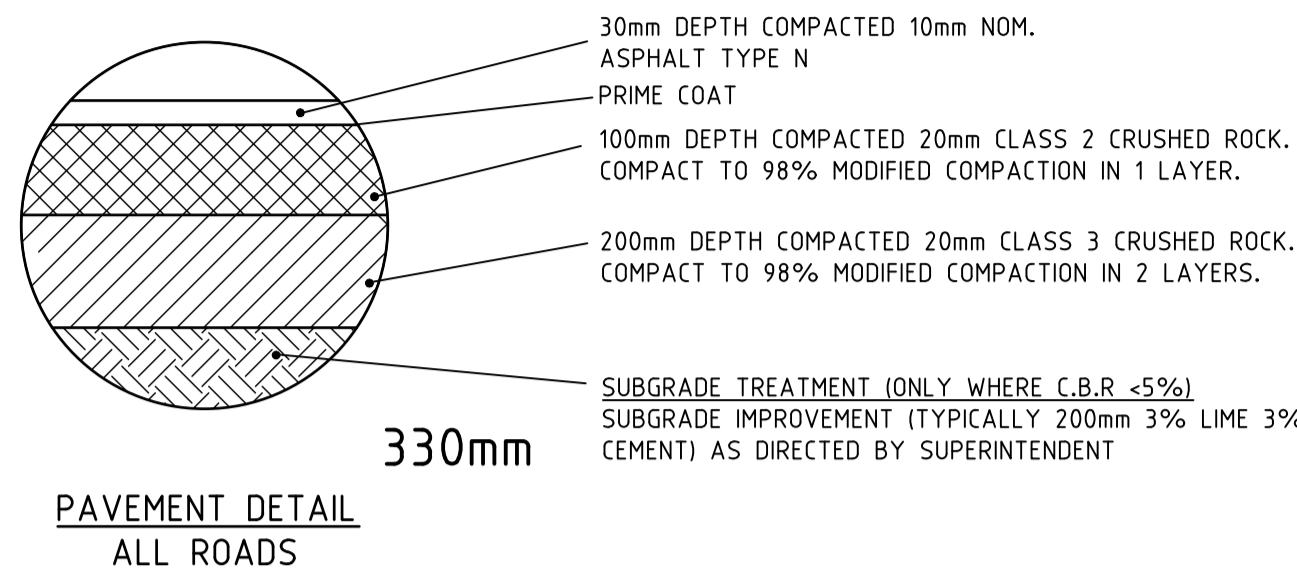
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**175 MCGLONE ROAD, DROUIN**  
DETAILED DESIGN - STAGE 5  
BAW BAW SHIRE COUNCIL - PLA0382/16  
ROADWORKS & DRAINAGE  
DRAINAGE LONGITUDINAL SECTIONS - 2 & PIT SCHEDULE

Drawing No. 16028-05-13  
Sheet No. 13 of 16

Rev 1

AS CONSTRUCTED



**GENERAL NOTES**

- THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THEY SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
- THE CONTRACTOR SHALL:
  - COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
  - NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
  - ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
- THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY COUNCIL'S SUPERVISING OFFICER. THE REMOVAL OR RETENTION OF EXISTING TREES MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLANS. OTHERWISE, APPROVAL WILL BE REQUIRED FROM THE LANDSCAPE APPROVAL OFFICER.
- ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEDS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.
- CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT AND/OR COUNCIL'S SUPERVISING OFFICER. CONDUITS TO BE PLACED A MINIMUM OF 1.4m FROM BOUNDARIES/EASEMENTS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND/OR COUNCIL'S SUPERVISING OFFICER. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS G,W,E AND T ABOVE CONDUIT LOCATIONS AS SPECIFIED. TELSTRA CONDUITS WILL BE SUPPLIED BY TELSTRA AT TELSTRA'S EXPENSE, IN TRENCHES EXCAVATED AND BACKFILLED BY THE CONTRACTOR. TELSTRA SIZE VARIES - WHITE P.V.C., TELSTRA TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS. GAS AND WATER CONDUITS TO BE 50mm DIA. HEAVY DUTY P.V.C. LAID AT A MINIMUM DEPTH OF 600mm BELOW ROAD FINISHED SURFACE LEVELS.
- SUBSOIL DRAINS SHALL BE INSTALLED BEHIND ALL KERB AND CHANNEL AS PER COUNCIL SPECIFICATION AND STANDARD DRAWINGS.
- ALL LINE MARKING, SIGNING & TRAFFIC CONTROL DEVICES FOR THIS PROJECT TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742. ALL LINE MARKING TO BE LONG LIFE THERMOPLASTIC PAINT.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- THE CONTRACTOR SHALL CO-OPERATE WITH OTHER AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE. THE CONTRACTOR SHALL CHECK WITH THE SUPERINTENDENT AND/OR COUNCIL'S SUPERVISING OFFICER THE EXACT LOCATION OF ALL SERVICES PRIOR TO THE INSTALLATION OF CONDUITS.
- ANY EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL REPRESENTATIVE.
- FILLING IN PROPERTIES AND ROAD RESERVE IS TO BE CARRIED OUT USING APPROVED CLAY FILL. TOPSOIL AND ALL VEGETABLE MATTER TO BE STRIPPED FROM FILL SITE PRIOR TO FILLING. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED TO 95% OF MAX. DRY DENSITY UNDER THE STANDARD AASHO TEST. ALL FILLING TO COMPLY WITH AS 3798/1996, APPENDIX B, LEVEL 1. IF ANY EXISTING SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE, IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL COMPACTED TO COUNCIL REQUIREMENTS. A GEOTECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
- THE NATURE STRIPS AND CUT OR FILLED AREAS ARE TO BE TOPSOILED WITH 100mm OF APPROVED MATERIAL. IF THE LOCAL SOIL IS NOT SUITABLE, APPROVED SOIL SHALL BE IMPORTED AT THE CONTRACTOR'S EXPENSE.
- UNLESS OTHERWISE SHOWN, BATTERS INTO ALLOTMENTS SHALL NOT BE STEEPER THAN 1 IN 3 CUT AND 1 IN 6 FILL. CUT BATTERS ARE TO BE GRASSED AND MULCHED WITH A MIXTURE OF CHOPPED GRASS, STRAW AND BITUMEN EMULSION.
- LOTS SHALL BE GRADED TO ENSURE A MINIMUM GRADE OF 1 IN 150 ON THE LOWEST SIDE BOUNDARY TO THE POINT OF DRAINAGE.
- ALL 150Ø PIPE TO BE PVC (S<sub>n</sub>10), 225Ø TO 900Ø INCLUSIVE TO BE R.R.J. R.C. ALL R.C. PIPES TO BE CLASS 2 UNLESS NOTED OTHERWISE.
- STORMWATER DRAINS UNDER PAVEMENTS ARE TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK.
- STORMWATER DRAINS UNDER FOOTPATHS, DRIVEWAYS AND BEHIND KERB WHERE SIDE OF TRENCH COMES WITHIN 150mm OF THE BACK OF KERB TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK, UNLESS SHOWN OTHERWISE.
- ALL HOUSE DRAINS ARE TO BE CONNECTED DIRECT TO AN UNDERGROUND DRAIN OR PIT. CONNECT HOUSE DRAIN AS PER INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWING SD 515 & SD 520. OFFSET 1m FROM LOW SIDE BOUNDARY UNLESS OTHERWISE INDICATED.
- PROPERTY INLET PITS ARE TO BE LOCATED 1.00m FROM LOW SIDE BOUNDARY UNLESS OTHERWISE SHOWN. INVERT LEVEL OF PROPERTY INLET IS TO BE A MINIMUM OF 400mm BELOW FINISHED/EXISTING SURFACE LEVEL. A PROPERTY INLET GULLY BASIN IS NOT REQUIRED AT PROPERTY INLET POINTS.
- DRIVEWAYS ARE PROVISIONAL ITEMS AND SHOWN ON PLAN ONLY TO INDICATE PREFERRED LOCATIONS. DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH THE INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS SD 240 & SD 245. DRIVEWAYS TO BE LOCATED 0.60m FROM BUILDING LINE AND CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES. DOUBLE DRIVEWAY WIDTH TO BE 7.2m AT FRONT OF PATH/BUILDING LINE.
- ALL FOOTPATHS, SHARED PATHS AND OR BICYCLE PATHS ARE TO BE 125mm THICK 25Mpa SL72 MESH REINFORCEMENT PLACED CENTRALLY WITH 50mm BEDDING AS PER INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS SD 205 & SD 210.
- ALL STREET SIGNS ARE TO BE TO CURRENT BAW BAW SHIRE COUNCIL - PLA0382/16 STANDARD, INCLUDING PROVISION OF LOGO.
- SIGNS, PAVEMENT MARKINGS AND DELINEATORS ARE TO BE INSTALLED AS APPLICABLE IN ACCORDANCE WITH AS1742.2. ALL PAVEMENT MARKINGS TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
- NO SURPLUS TREES, VEGETATION OR OTHER MATERIALS IS TO BE BURNT ON SITE.
- ANY SOFT ROCK USED IS TO CONFORM TO THE BAW BAW SHIRE COUNCIL - PLA0382/16 SPECIFICATION FOR RIPPED ROCK.
- APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.
- CONCRETE TO BE PLACED AROUND ELECTRICAL DISTRIBUTION PITS TO A MINIMUM DEPTH OF 200mm. DISTRIBUTION PITS TO BE A MINIMUM OF 300mm FROM EDGE OF FOOTPATHS.
- UPON COMPLETION OF CONSTRUCTION, THE WHOLE SITE SHALL BE CLEANED UP AND GRADED OVER. ALL RUBBISH IS TO BE REMOVED AND THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT AND/OR COUNCIL'S SUPERVISING OFFICER.
- ALL KERB AND CHANNEL THROUGHOUT THE ESTATE IS TO BE AS PER THE DESIGN PLANS. INTERSECTION KERB AND CHANNEL IS TO BE SEMI-MOUNTABLE (SM2). INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWING SD 100.
- TACTILE PAVERS ARE PROVISIONAL ITEMS AND POSSIBLE LOCATIONS SHOWN. CONTRACTOR TO WHEREVER POSSIBLE MEET PRAM CROSSING GRADES WHICH NEGATES THE NEED FOR TACTILES IF INSTALLED, TACTILED PAVERS AND GRADES ARE BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1428.4.
- EXISTING OPEN DRAIN TO BE EXCAVATED TO REMOVE ALL SOFT MATERIAL TO A WIDTH OF A MINIMUM 1m WIDER THAN THE DRAIN AND A MINIMUM DEPTH OF 300mm. THE EXCAVATED AREA SHALL BE INSPECTED AT THIS POINT TO DETERMINE WHETHER FURTHER EXCAVATION IS NECESSARY.

**ORIGIN ENERGY - STANDARD NOTES**

- GAS MAINS, FITTINGS AND MARKER TAPE ARE TO BE SUPPLIED BY ORIGIN ENERGY.
- EXCAVATION, SUPPLY AND PLACEMENT OF REQUIRED BACKFILL TO BE BY OTHERS.
- TWO WEEKS OF NOTIFICATION OF COMMENCEMENT OF EXCAVATION WORKS SHALL BE GIVEN TO THE RELEVANT AUTHORITY.

**REINFORCED CONCRETE PIPE**

- ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS ENGINEER.
- COMPUTATIONS ARE TO ACCORD WITH AS.3725-1989. LOADS ON BURIED PIPES. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPAIRED AT THE CONTRACTORS COST.

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REVISION	DATE	DES/DT	APPD
1	AS CONSTRUCTED ISSUE	31.05.22	AC/AC KT
C	ISSUED FOR CONSTRUCTION	02.08.21	AC/AC KT
B	AMENDED AS PER COUNCIL COMMENTS RECEIVED 09/06/21	10.06.21	AC/AC KT
A	INITIAL ISSUE	30.10.20	AC/AC KT

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Drawn  
A.Cantwell  
  
Checked  
K.Taylor  
  
Authorised  
K.Taylor  
  
Date  
October 2020

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Scale @ A1 N/A  
  
Coords: MGA Levels: AHD



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**175 MCGLONE ROAD, DROUIN**  
DETAILED DESIGN - STAGE 5  
BAW BAW SHIRE COUNCIL - PLA0382/16  
ROADWORKS & DRAINAGE  
GENERAL NOTES & DETAILS

Drawing No. 16028-05-14 Rev 1  
Sheet No. 14 of 16

**AS CONSTRUCTED**



**WARNING**  
**BEWARE OF UNDERGROUND SERVICES**  
 The locations of underground services are approximate only and their exact position should be proven on site.  
 No guarantee is given that all existing services are shown. Locate all underground services before commencement of works.  
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ROAD NAME	GAS		WATER		ELECTRICITY		TELECOMMUNICATIONS	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
CART DRIVE (LOT 501-503)	SOUTH	2.70	SOUTH	3.20	SOUTH	1.70	SOUTH	1.00
CART DRIVE (LOT 504-514)	EAST	2.10	EAST	2.60	WEST	2.30	WEST	1.80
RUFFELS STREET	NORTH	2.10	NORTH	2.60	SOUTH	2.30	SOUTH	1.80
BRIDGES STREET	NORTH	2.10	NORTH	2.60	SOUTH	2.30	SOUTH	1.80

ROAD NAME	ROAD CLASSIFICATION	RESERVE WIDTH (m)	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
			LIP to LIP	INV to INV	BACK to BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
CART DRIVE (LOT 501-503)	LOCAL	14.00	6.70	7.30	7.75	B2	SM2-M	1.20	5.05
CART DRIVE (LOT 504-514)	LOCAL	16.00	6.70	7.30	7.90	SM2-M	SM2-M	4.05	4.05
RUFFELS STREET	LOCAL	16.00	6.70	7.30	7.90	SM2-M	SM2-M	4.05	4.05
BRIDGES STREET	LOCAL	16.00	6.70	7.30	7.90	SM2-M	SM2-M	4.05	4.05

**LEGEND - LAYOUT PLAN**

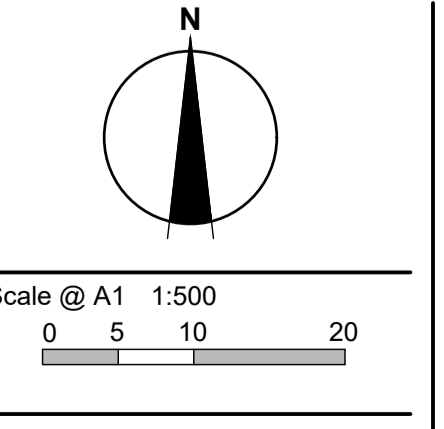
- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- TACTILE PAVERS
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING TELSTRA
- EXISTING WATER
- EXISTING RISING MAIN
- EXISTING STORMWATER DRAIN
- EXISTING RECYCLED WATER
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- RETAINING WALL
- PAVEMENT TREATMENT
- STRUCTURAL FILL > 200mm DEEP
- EX. STRUCTURAL FILL > 200mm DEEP
- DIRECTION OF FALL
- OVERLAND FLOW
- ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE RETAINED/REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY
- PROPOSED STREET LIGHT

REVISION	DATE	DES/DT	APPD
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 A.Cantwell  
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 K.Taylor  
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**175 MCGLONE ROAD, DROUIN**  
 DETAILED DESIGN - STAGE 5  
 BAW BAW SHIRE COUNCIL - PLA0382/16  
 ROADWORKS & DRAINAGE  
 MASTER SERVICES PLAN

Drawing No. 16028-05-15  
 Sheet No. 15 of 16

Rev 1



AS CONSTRUCTED

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SUBJECT TO SEPARATE PLANNING APPLICATION

SIGN SCHEDULE

SIGN	REF
	1
STREET SIGN	
	2
R1-2	

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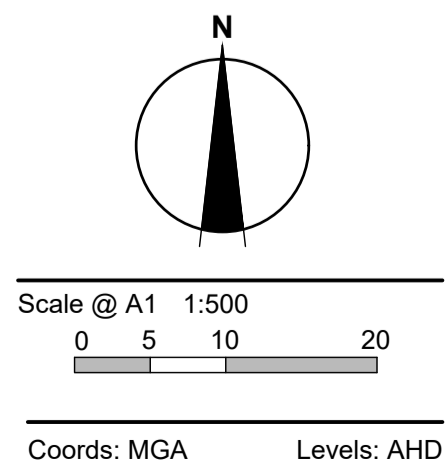
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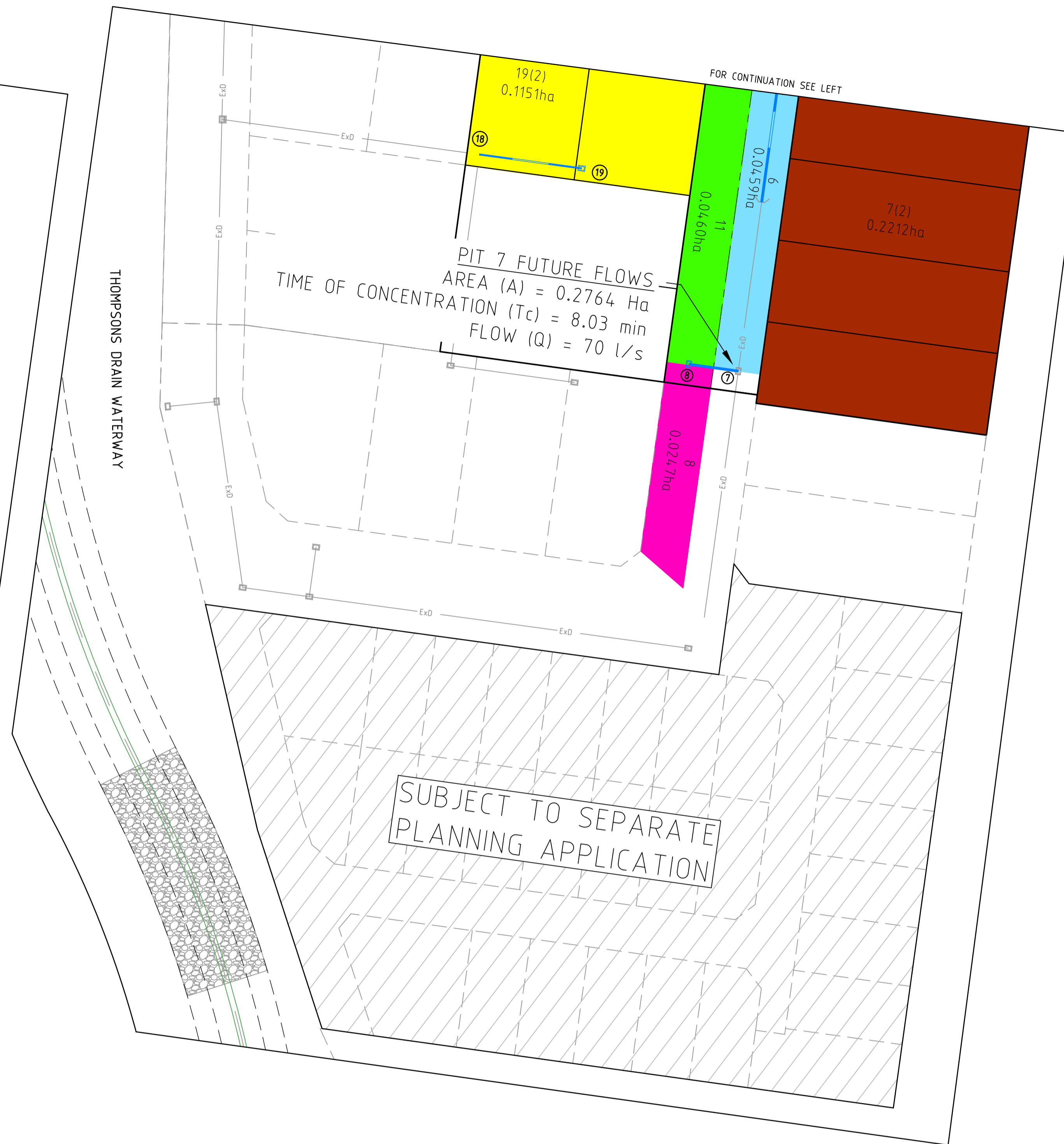
**175 MCGLONE ROAD, DROUIN**  
 DETAILED DESIGN - STAGE 5  
 BAW BAW SHIRE COUNCIL - PLA0382/16  
 ROADWORKS & DRAINAGE  
 SIGNAGE & LINEMARKING PLAN

Drawing No. 16028-05-16  
 Sheet No. 16 of 16

Rev 1

AS CONSTRUCTED



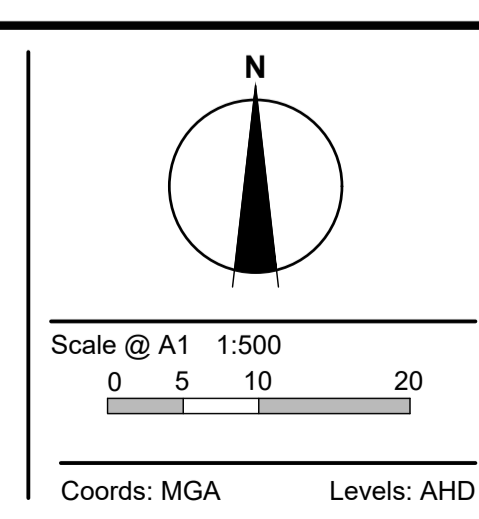


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**175 MCGLONE ROAD, DROUIN**  
 DETAILED DESIGN - STAGE 5  
 BAW BAW SHIRE COUNCIL - PLA0382/16  
 ROADWORKS & DRAINAGE  
 CATCHMENT PLAN

Drawing No. 16028-05-95  
 Sheet No. 01 of 01

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