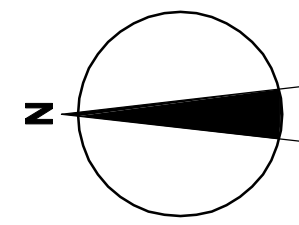


Estuary

Stage 3

City Of Greater Geelong



LOCALITY PLAN

MELWAYS REF: 468 D5



Designed for Living



Principal

Leopold Property Developments Pty Ltd

Level 1, 6 Riverside Quay

Southbank, Victoria 3006

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- 0250EHL-03- 02 General Notes
- 0250EHL-03- 03 Layout Plan
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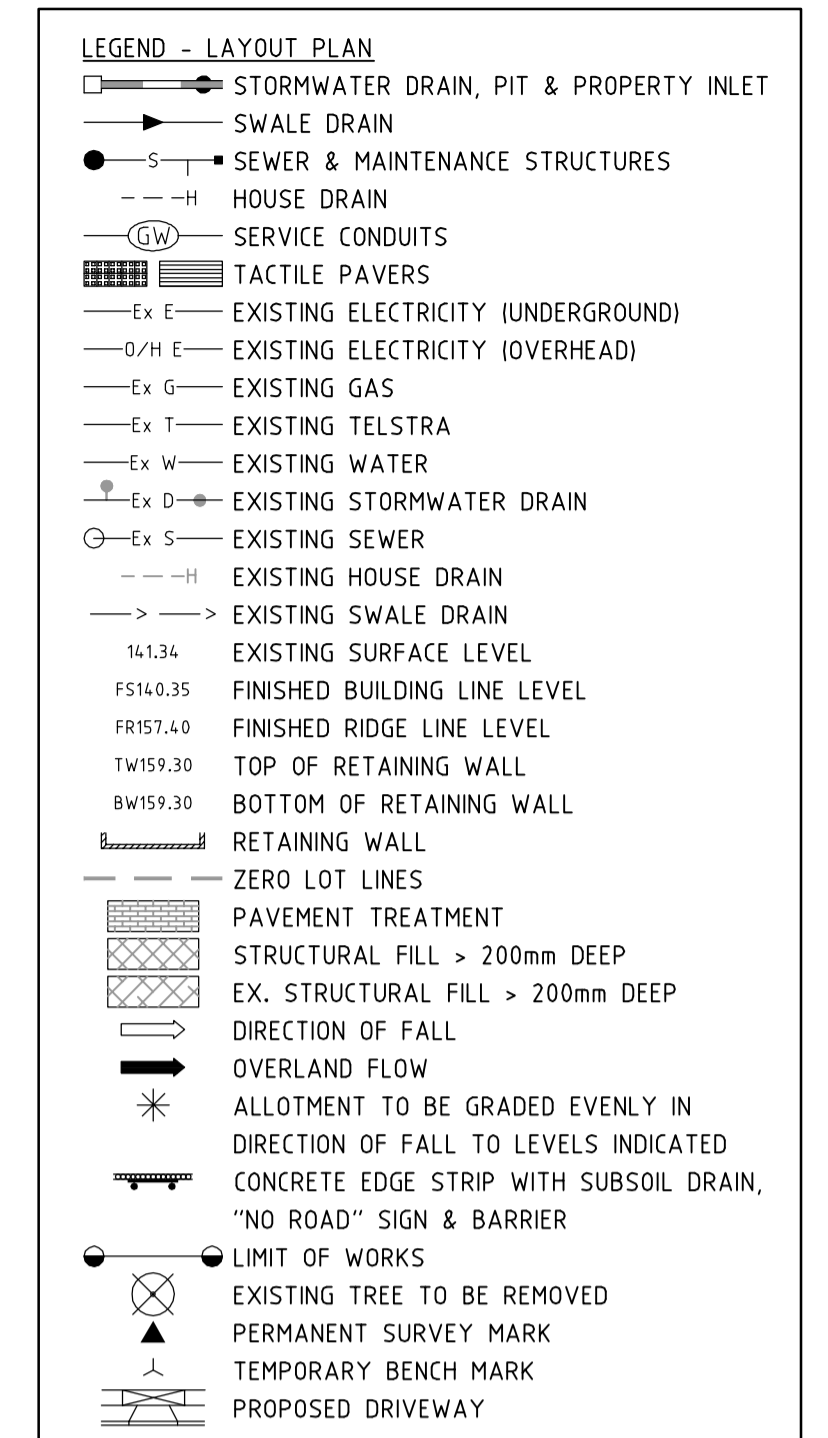
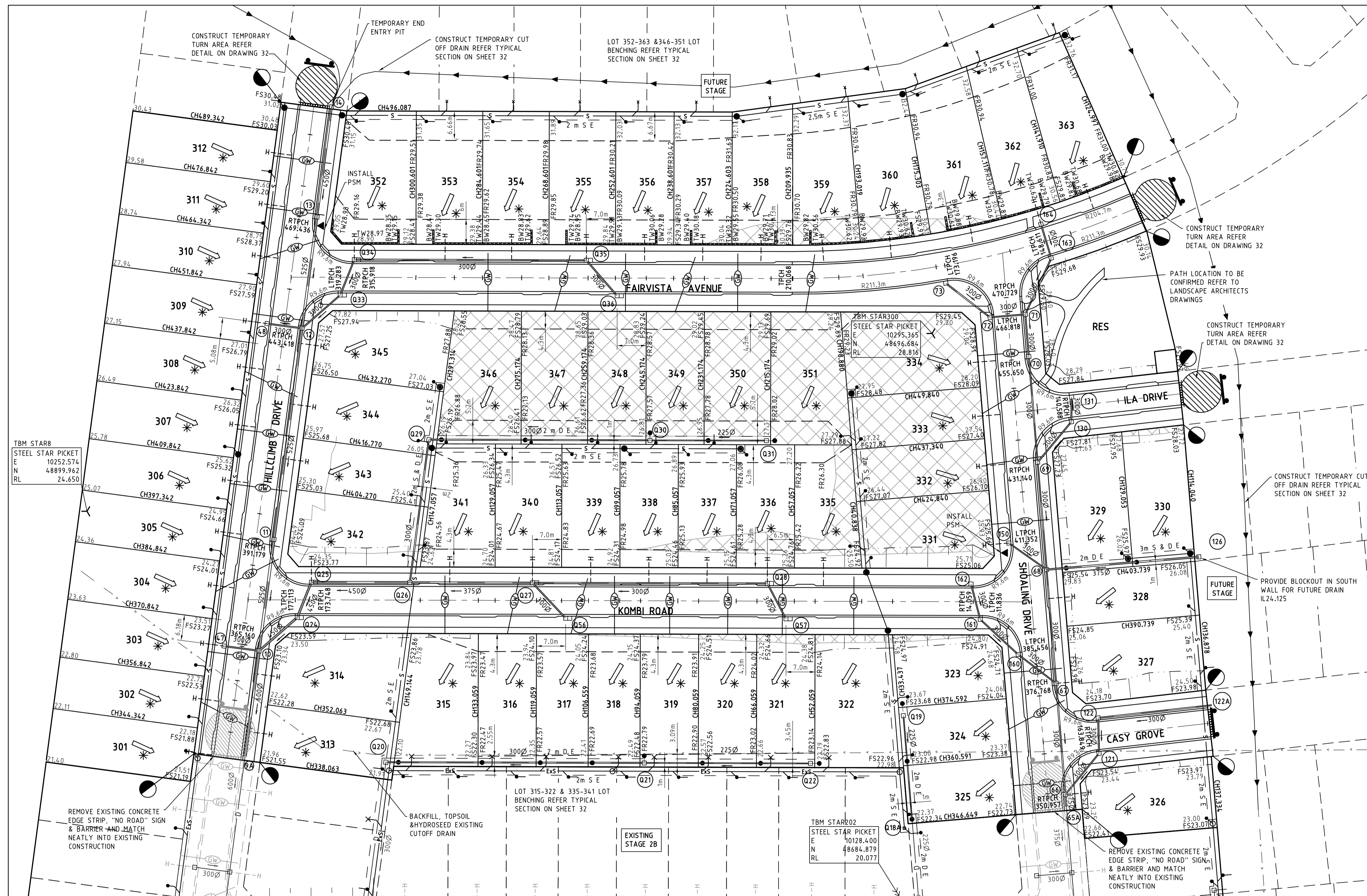
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Geelong West, VIC, 3218

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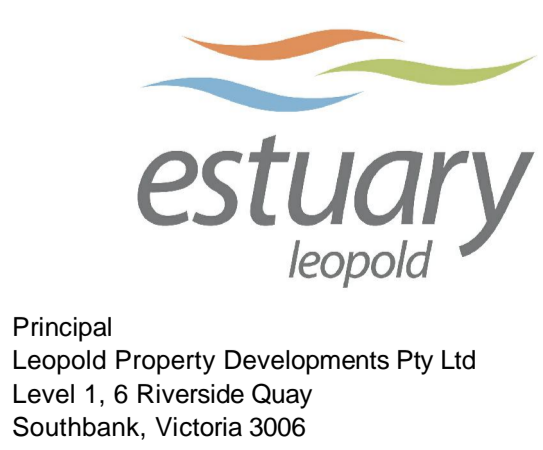


ROAD NAME	RESERVE WIDTH (m)	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
		LIP to LIP	INV to INV	BACK to BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
HILLCLIMB DRIVE	16.00	6.60	7.20	7.50	B2	B2	4.25	4.25
KOMBI ROAD	16.00	6.60	7.20	7.50	B2	B2	4.25	4.25
CASY GROVE	16.00	6.60	7.20	7.50	B2	B2	4.25	4.25
ILA DRIVE	13.00	5.30	5.90	6.50	SM2	SM2	2.25	4.25
FAIRVISTA AVENUE LOTS 352-361	16.00	6.60	7.20	7.50	B2	B2	4.25	4.25
FAIRVISTA AVENUE LOTS 362-363	14.00	6.60	7.20	7.50	B2	B2	4.25	VARIES
SHOALING DRIVE	16.00	6.60	7.20	7.50	B2	B2	4.25	4.25

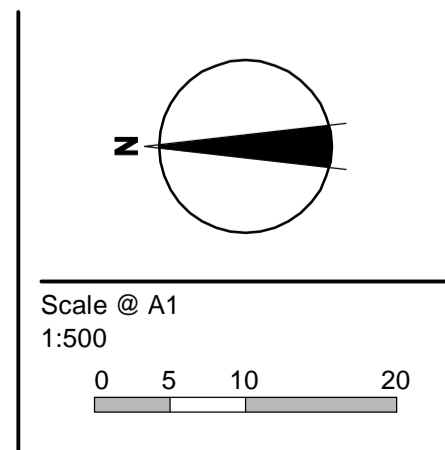
ROAD NAME	GAS		WATER		ELECTRICITY		TELSTRA	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
HILLCLIMB DRIVE	SOUTH	2.10	SOUTH	2.70	NORTH	2.30	NORTH	1.70
KOMBI ROAD	EAST	2.10	EAST	2.70	WEST	2.30	WEST	1.70
CASY GROVE	EAST	2.10	EAST	2.70	WEST	2.30	WEST	1.70
ILA DRIVE	WEST	1.80	WEST	2.30	EAST	0.90	EAST	0.30
FAIRVISTA AVENUE NTH OF SHOALING	EAST	2.10	EAST	2.70	WEST	2.30	WEST	1.70
FAIRVISTA AVENUE STH OF SHOALING	EAST	2.10	EAST	2.70	WEST	0.75	WEST	0.30
SHOALING DRIVE	SOUTH	2.10	SOUTH	2.70	NORTH	1.80	NORTH	2.30
ILA DRIVE TRUNK MAIN	-	-	WEST	2.90	-	-	-	-
SHOALING DRIVE TRUNK MAIN	-	-	NORTH	2.90	-	-	-	-

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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REVISION	DATE	DESIGN	APP'D
G FOOTPATH IN RESERVE UPDATED TO MATCH LANDSCAPE PLAN	16.03.11	CB/CB	JG
F LOT 349 DRIVEWAY CROSSOVER RELOCATED	11.11.10	CB/CB	JG
E LOT 315 & 340 DRIVEWAY CROSSOVERS RELOCATED	29.10.10	CB/CB	JG
D DRAINAGE LINE REMOVED	22.09.10	CB/CB	JG
C RETAINING WALLS ADDED	19.08.10	CB/CB	JG
B COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG



Designed
C. Barker
 Drawn
C. Barker
 Checked
C. Birckett
 Authorised
J. Golden
 Date
April 2010

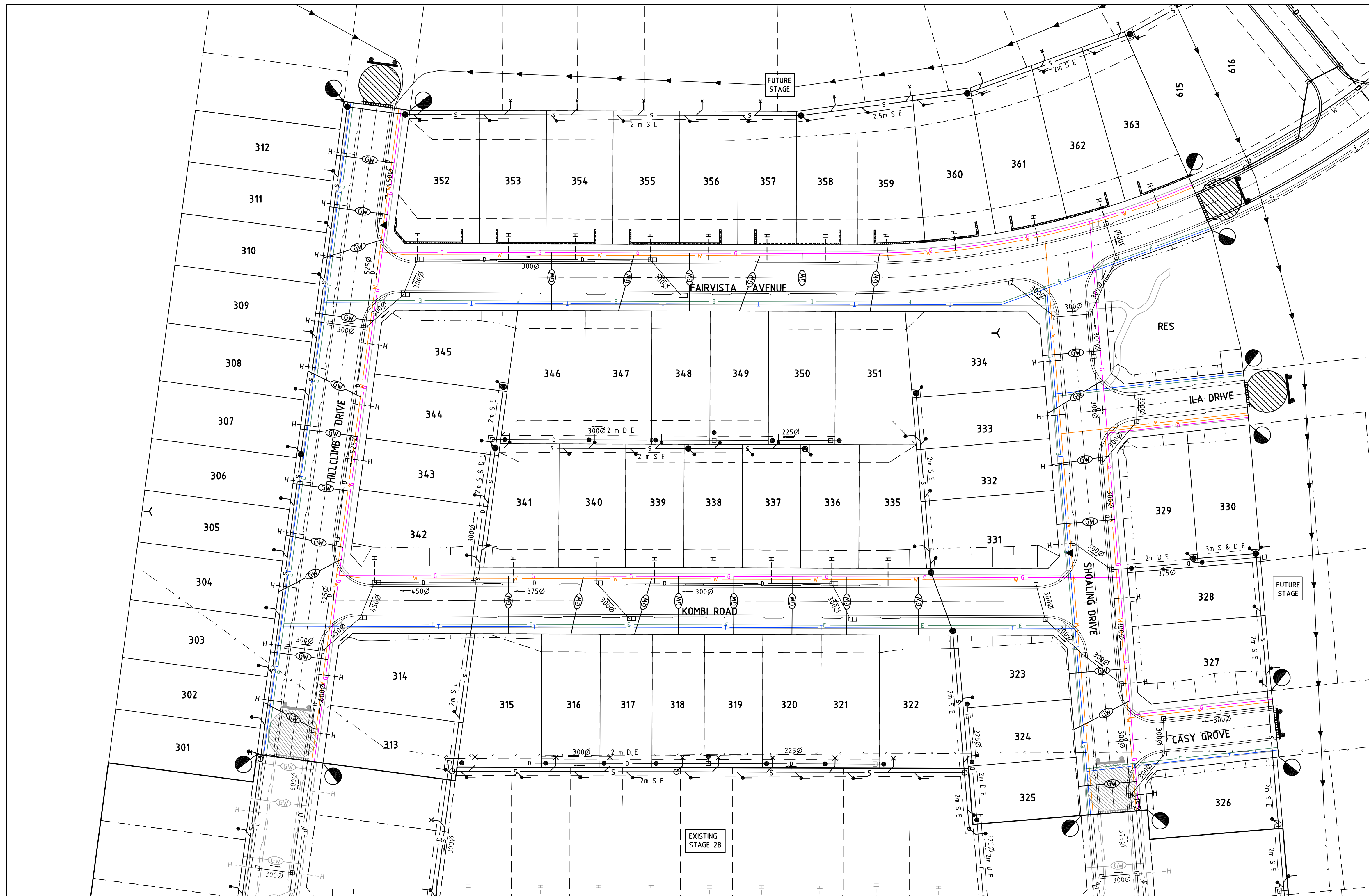


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ESTUARY
 Stage 3
 City of Greater Geelong
 Roadworks and Drainage
 Layout Plan

Drawing No. 0250EHL-03-03 Rev G
 Sheet No. 3 of 34
 Approved for Construction



LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- S — SEWER & MAINTENANCE STRUCTURES
- H — HOUSE DRAIN
- GW — SERVICE CONDUITS
- Ex E — EXISTING ELECTRICITY (UNDERGROUND)
- O/H E — EXISTING ELECTRICITY (OVERHEAD)
- Ex G — EXISTING GAS
- Ex T — EXISTING TELSTRA
- Ex W — EXISTING WATER
- Ex D — EXISTING STORMWATER DRAIN
- Ex S — EXISTING SEWER
- H — EXISTING HOUSE DRAIN
- S — EXISTING SWALE DRAIN
- 14.134 — EXISTING SURFACE LEVEL
- FS140.35 — FINISHED BUILDING LINE LEVEL
- FR157.40 — FINISHED RIDGE LINE LEVEL
- 14W59.30 — TOP OF RETAINING WALL
- BW159.30 — 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 REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY

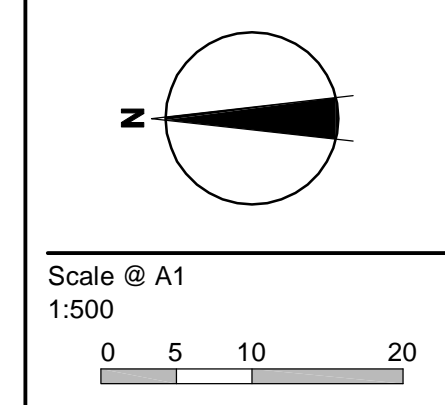
ROAD NAME	SERVICES OFFSET SCHEDULE							
	GAS		WATER		ELECTRICITY		TELSTRA	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
HILLCLIMB DRIVE	SOUTH	2.10	SOUTH	2.70	NORTH	2.30	NORTH	1.70
KOMBI ROAD	EAST	2.10	EAST	2.70	WEST	2.30	WEST	1.70
CASY GROVE	EAST	2.10	EAST	2.70	WEST	2.30	WEST	1.70
ILA DRIVE	WEST	1.80	WEST	2.30	EAST	0.90	EAST	0.30
FAIRVISTA AVENUE NTH OF SHOALING	EAST	2.10	EAST	2.70	WEST	2.30	WEST	1.70
FAIRVISTA AVENUE STH OF SHOALING	EAST	2.10	EAST	2.70	WEST	0.75	WEST	0.30
SHOALING DRIVE	SOUTH	2.10	SOUTH	2.70	NORTH	1.80	NORTH	2.30
ILA DRIVE TRUNK MAIN	-	-	WEST	2.90	-	-	-	-
SHOALING DRIVE TRUNK MAIN	-	-	NORTH	2.90	-	-	-	-

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 www.1100.com.au

REVISION	DATE	DES/DF	APPD
D DRAINAGE LINE REMOVED	22.09.10	CB/CB	JG
C RETAINING WALL ADDED	19.08.10	CB/CB	JG
B COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG

Principal
 Leopold Property Developments Pty Ltd
 Level 1, 6 Riverside Quay
 Southbank, Victoria 3006

Designed
C. Barker
 Drawn
C. Barker
 Checked
C. Birkett
 Authorised
J. Golden
 Date
April 2010



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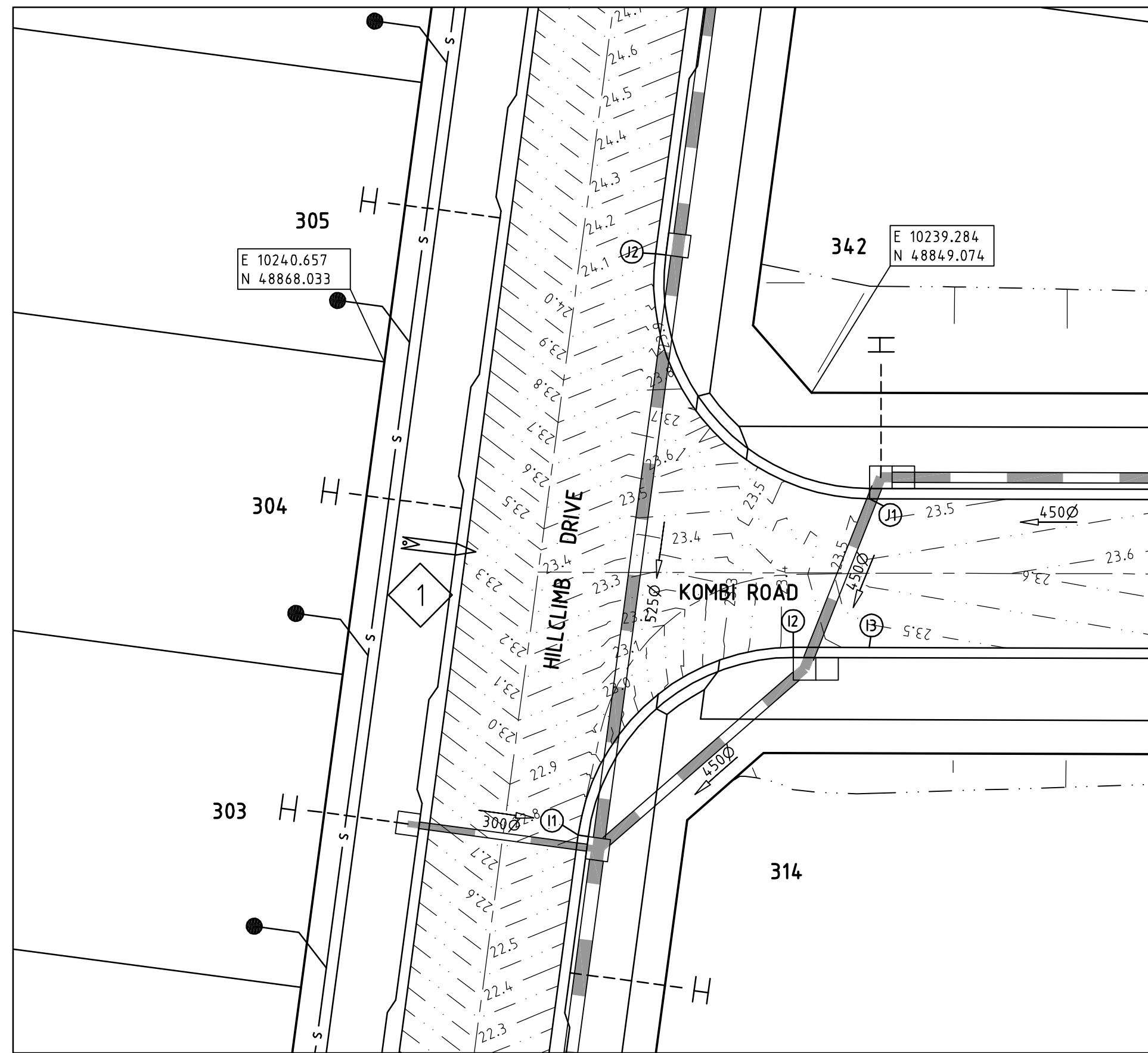
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ESTUARY
 Stage 3
 City Of Greater Geelong
 Roadworks and Drainage
 Services Layout Plan

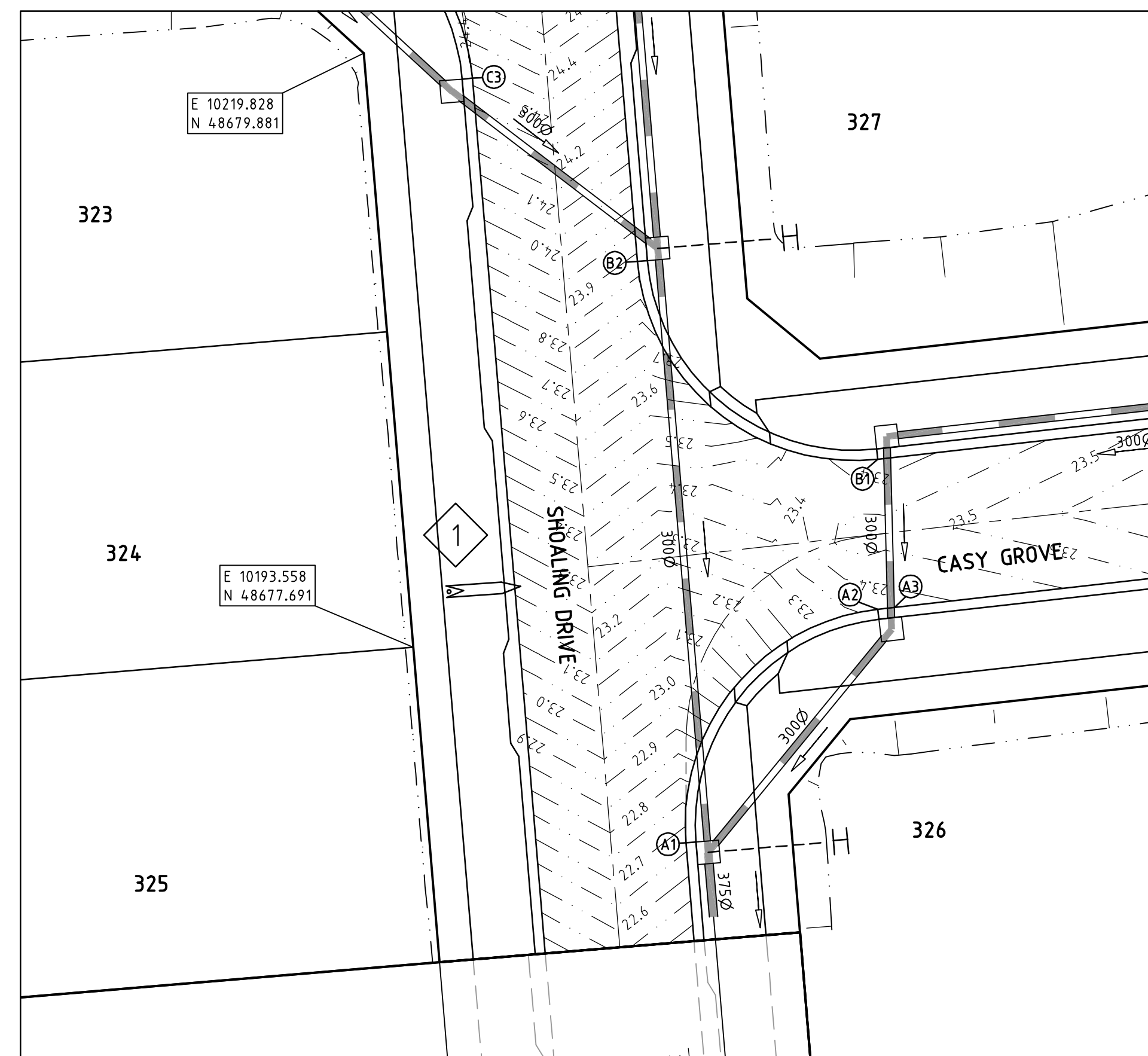
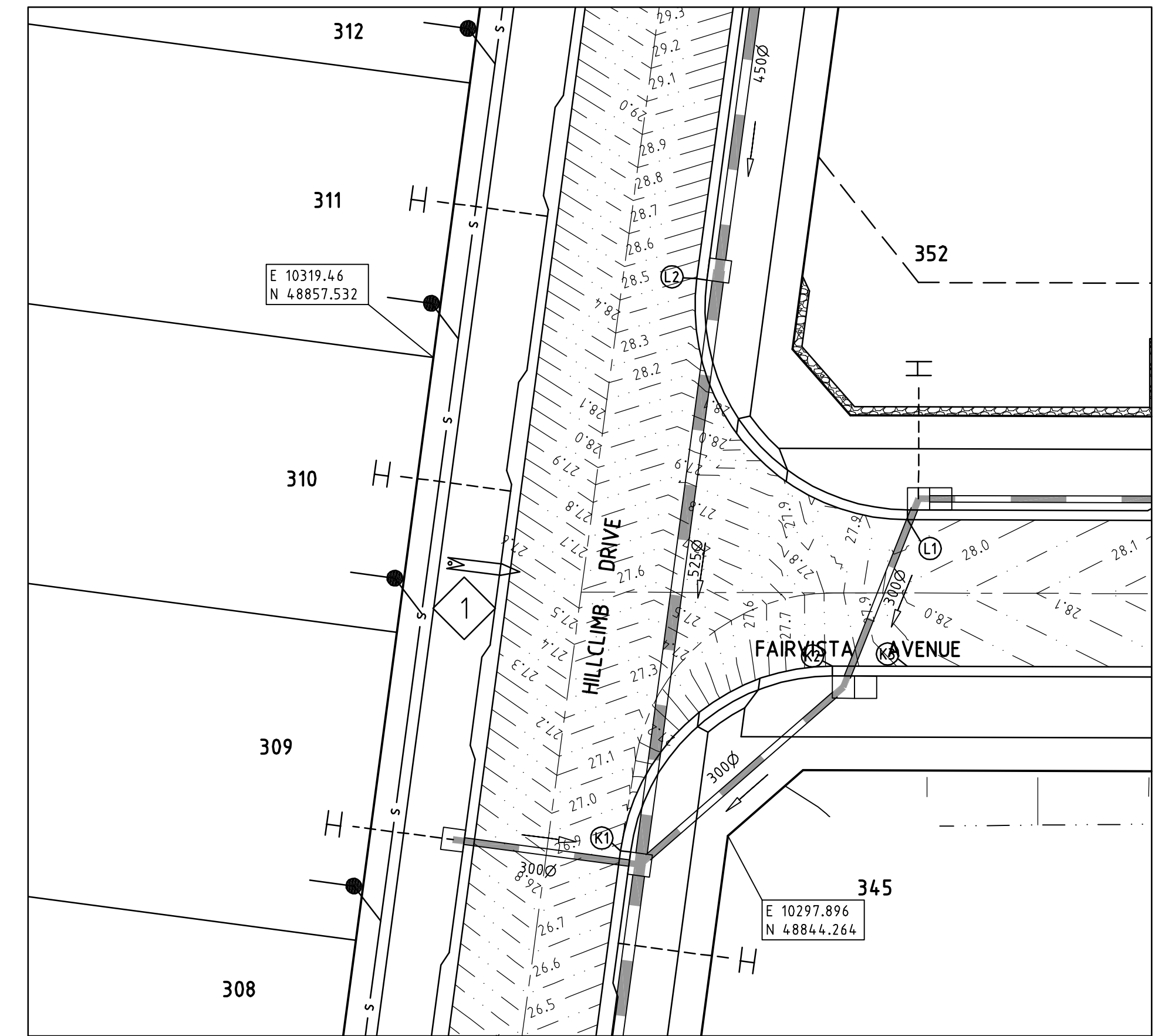
Drawing No. **0250EHL-03-04** Rev D
 Sheet No. 4 of 34

Approved for Construction



SIGN SCHEDULE

SIGN	REF
STREET SIGN	



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
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY

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 www.1100.com.au

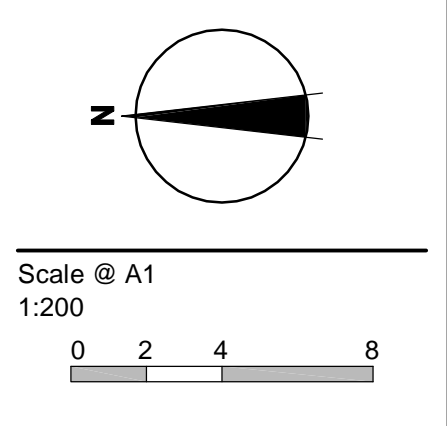
- NOTES**
1. REFER TO SHEET No's 7 - 8 FOR LIP PROFILES.
 2. REFER TO SHEET No 9 FOR SETOUT INFORMATION.
 3. 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPM'S AT MAX 6m SPACING.

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REVISION	DATE	DES/DFT	APPD
B COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG

Principal
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 Level 1, 6 Riverside Quay
 Southbank, Victoria 3006

Designed
C. Barker
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C. Barker
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J. Golden
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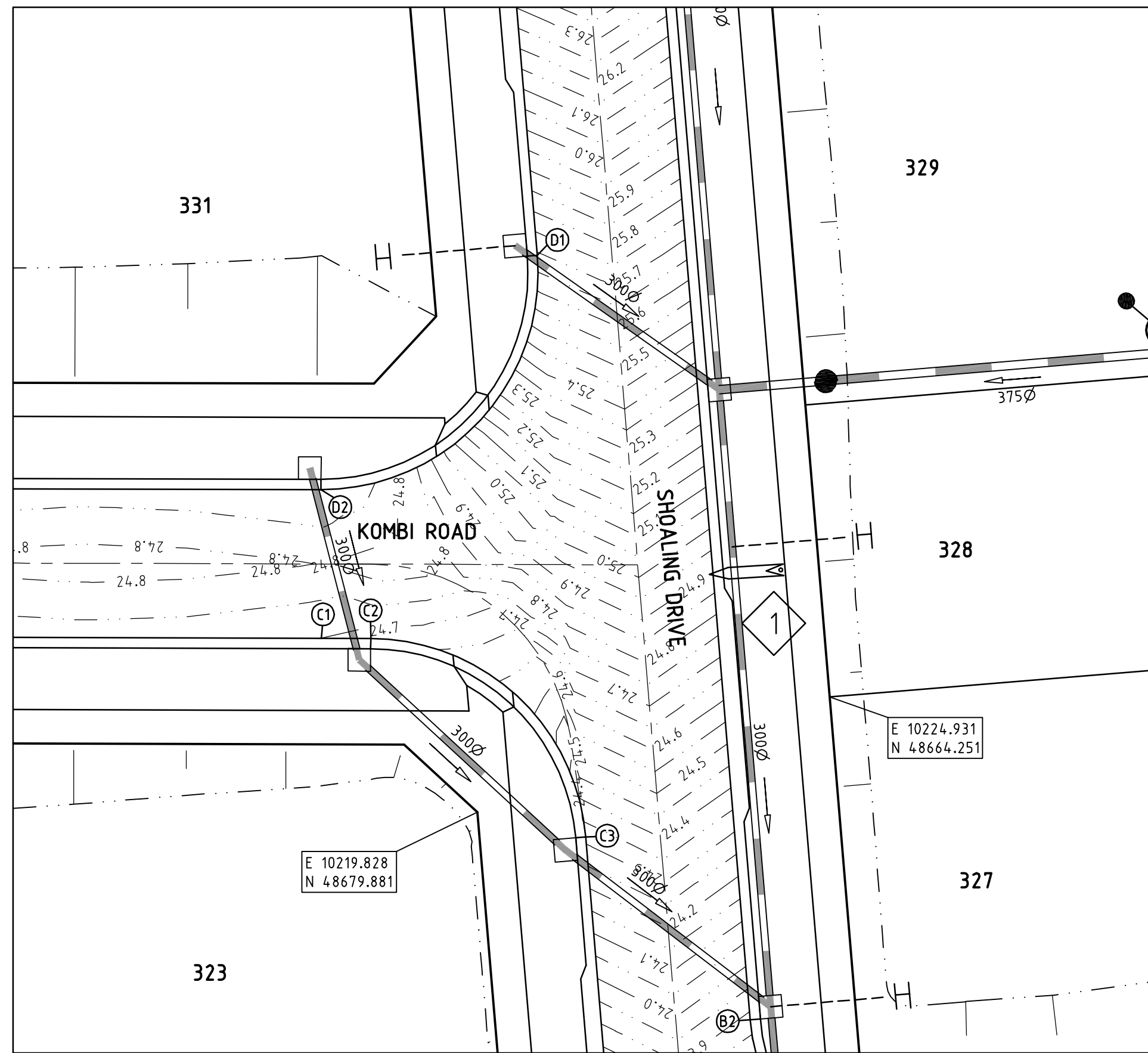
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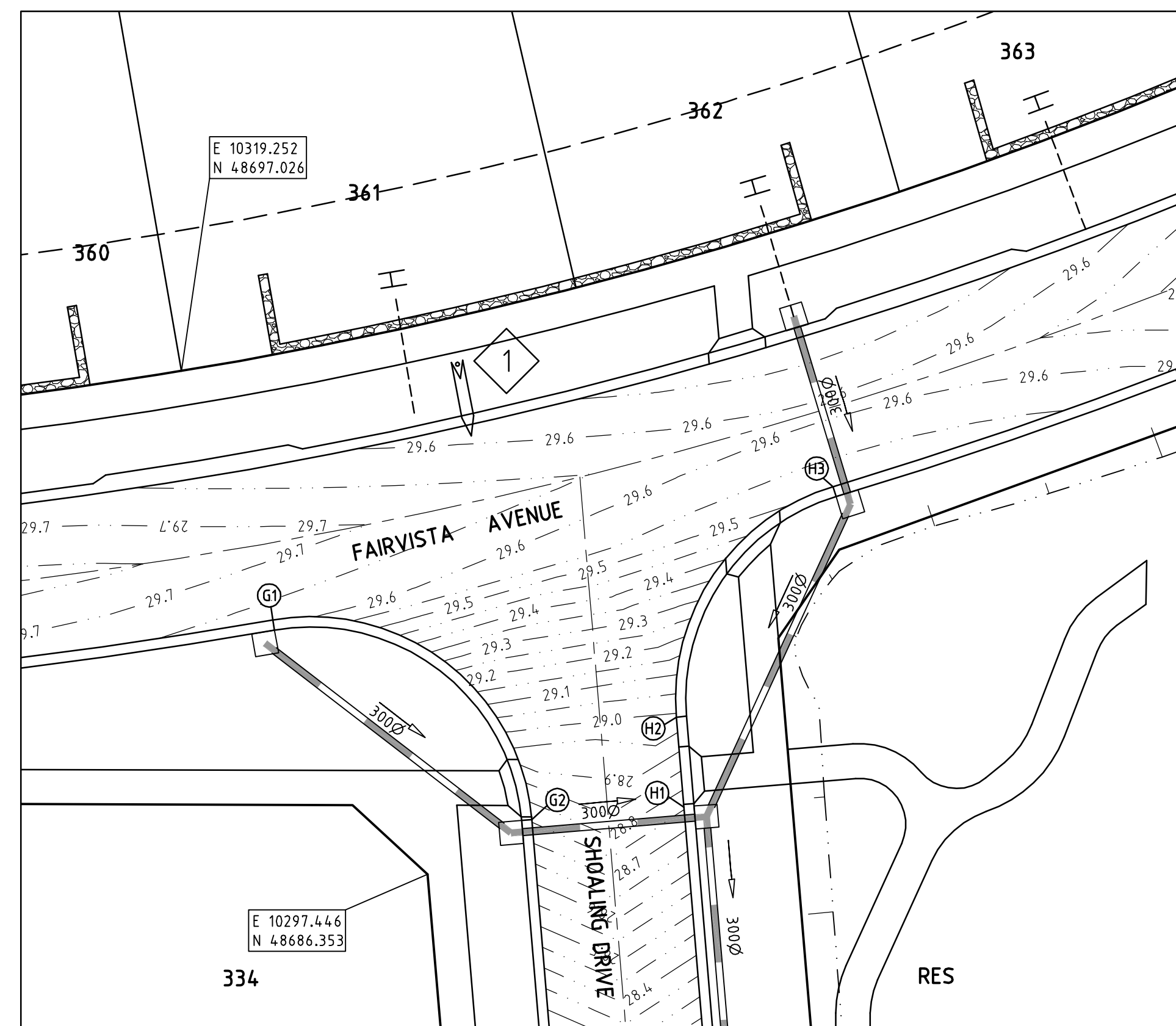
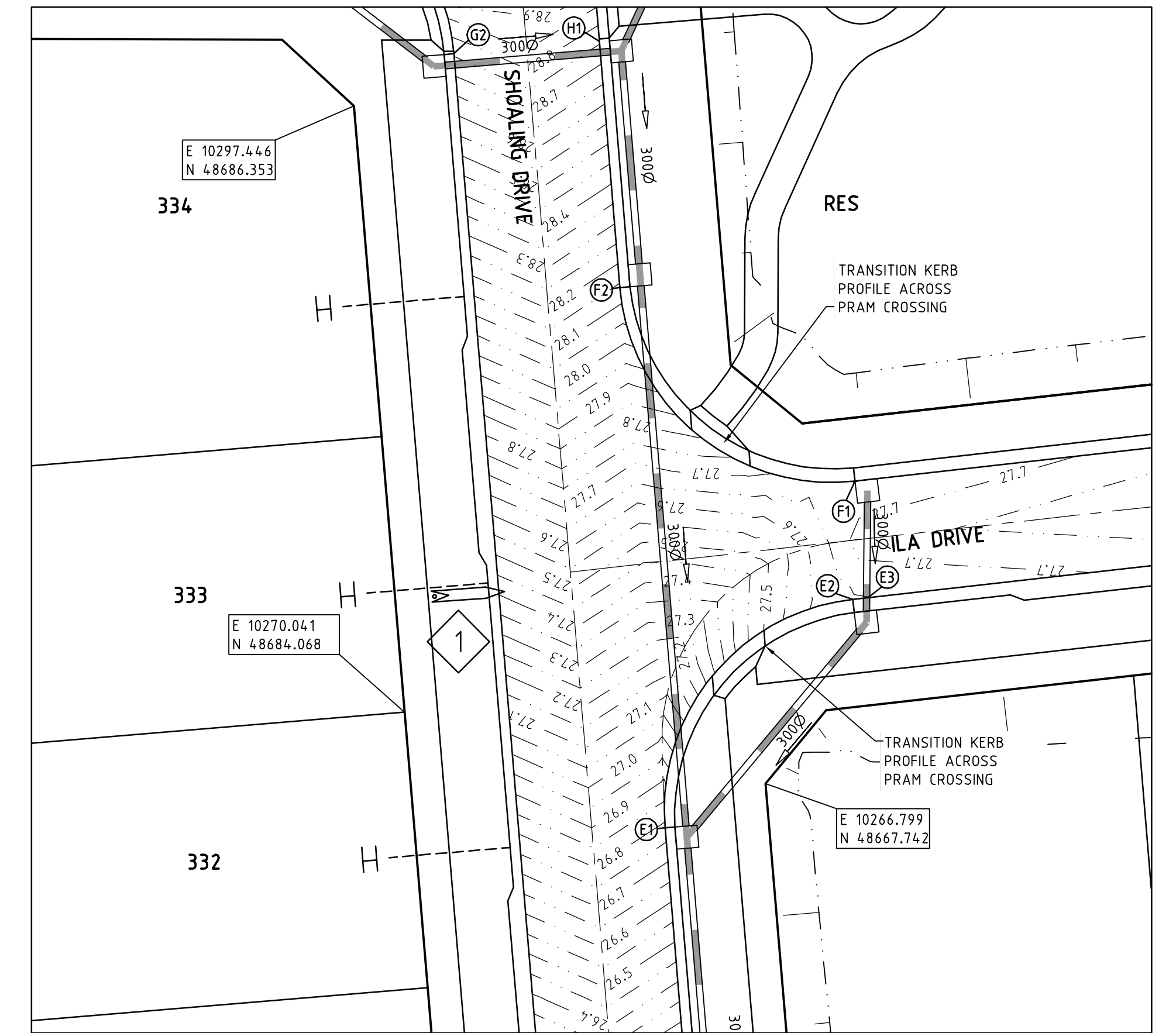
ESTUARY
 Stage 3
 City Of Greater Geelong
 Roadworks and Drainage
 Intersection Detail Plan - 1

Drawing No. 0250EHL-03-05 **Rev B**
 Sheet No. 5 of 34

Approved for Construction



SIGN SCHEDULE	
SIGN	REF
STREET SIGN	



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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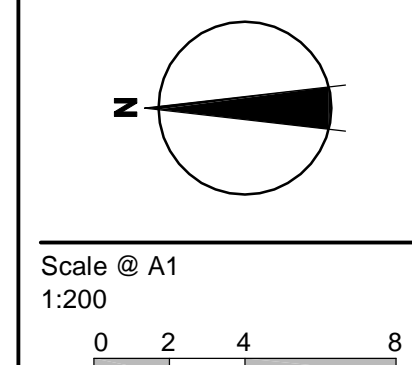
NOTES
 1. REFER TO SHEET No's 7 - 8 FOR LIP PROFILES.
 2. REFER TO SHEET No 9 FOR SETOUT INFORMATION.
 3. 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPM'S AT MAX 6m SPACING.

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REVISION	DATE	DES/DF	APPD
B COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG

Principal
 Leopold Property Developments Pty Ltd
 Level 1, 6 Riverside Quay
 Southbank, Victoria 3006

Designed
C. Barker
 Drawn
C. Barker
 Checked
C. Birkett
 Authorised
J. Golden
 Date
April 2010



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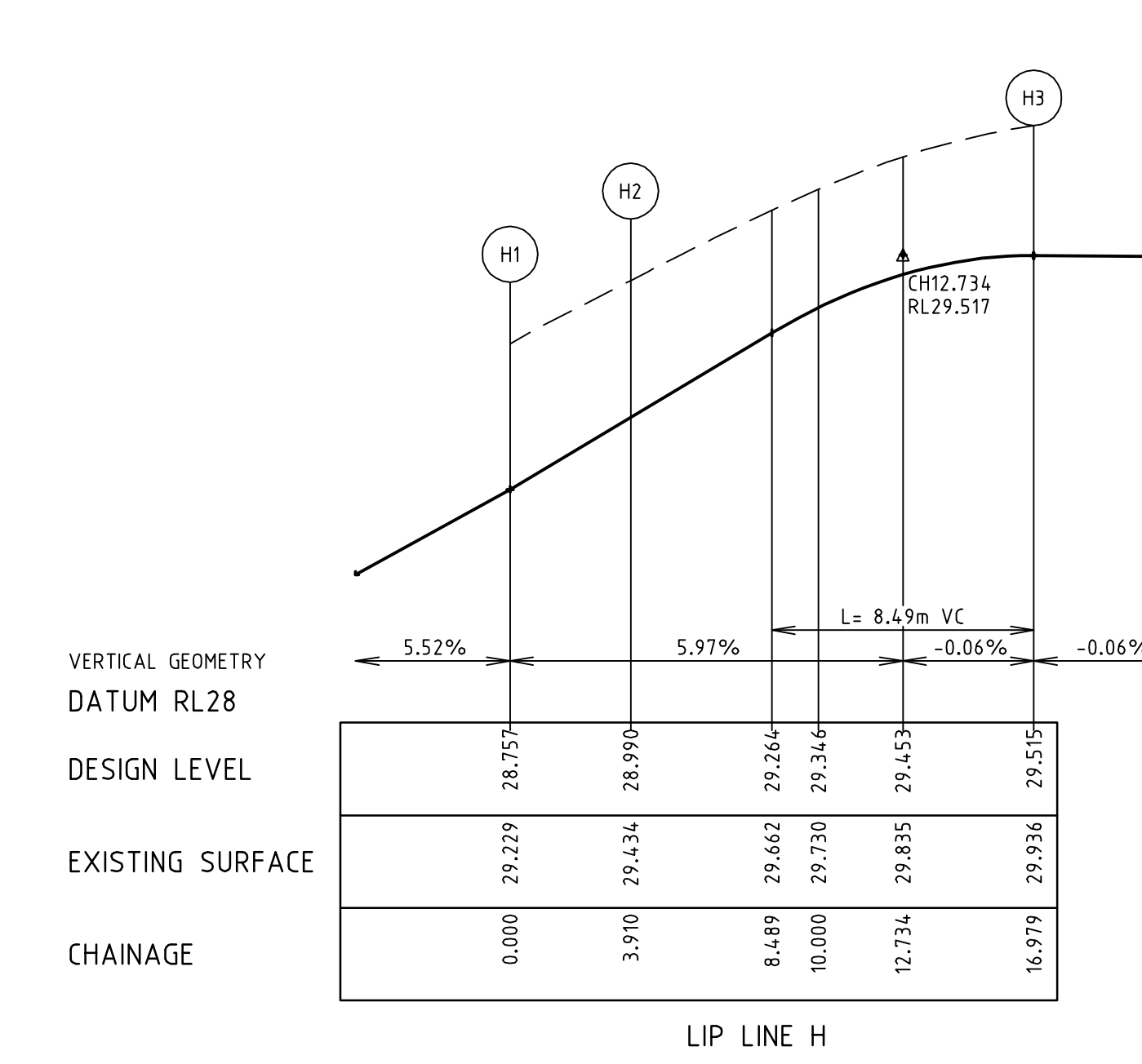
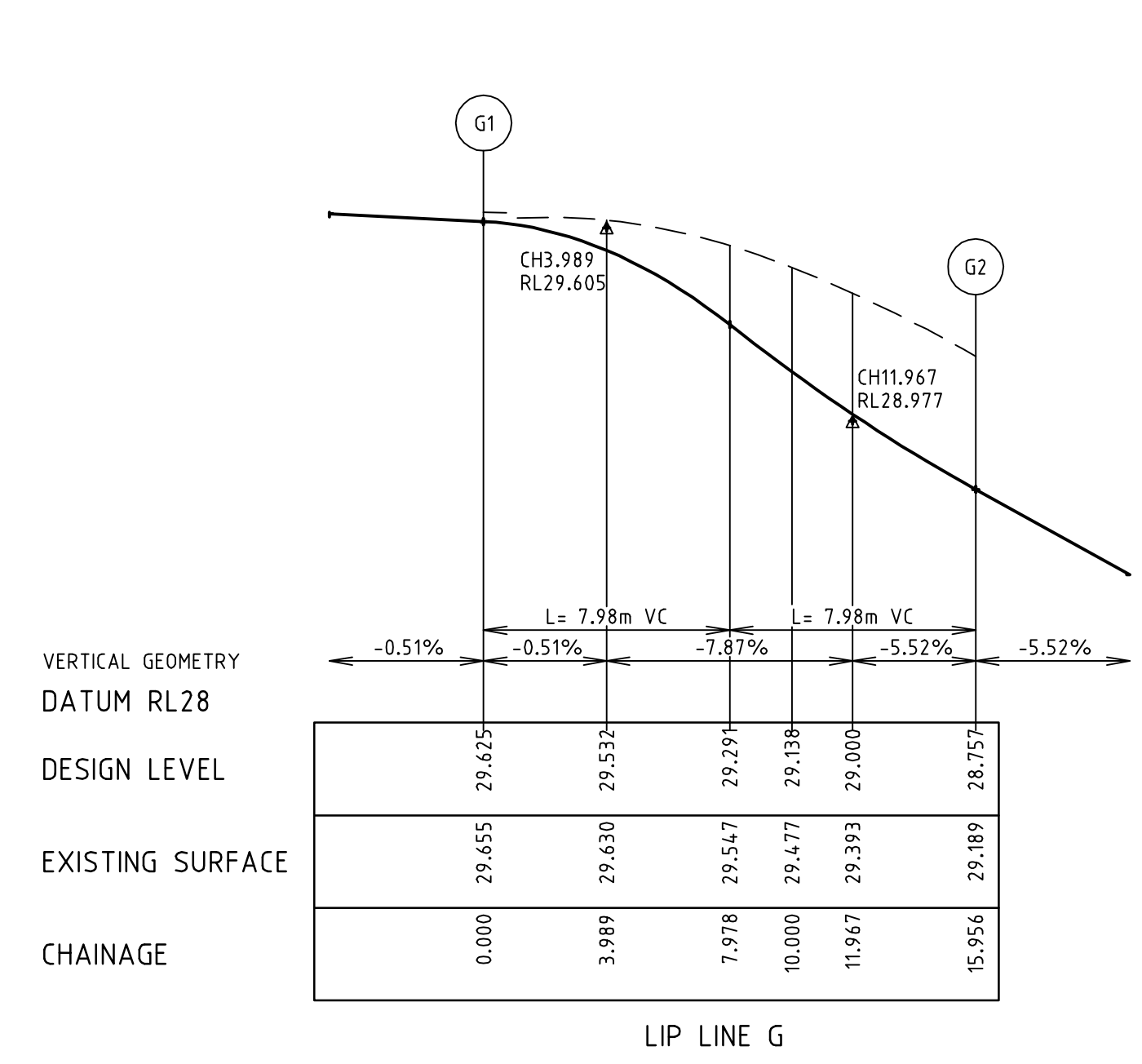
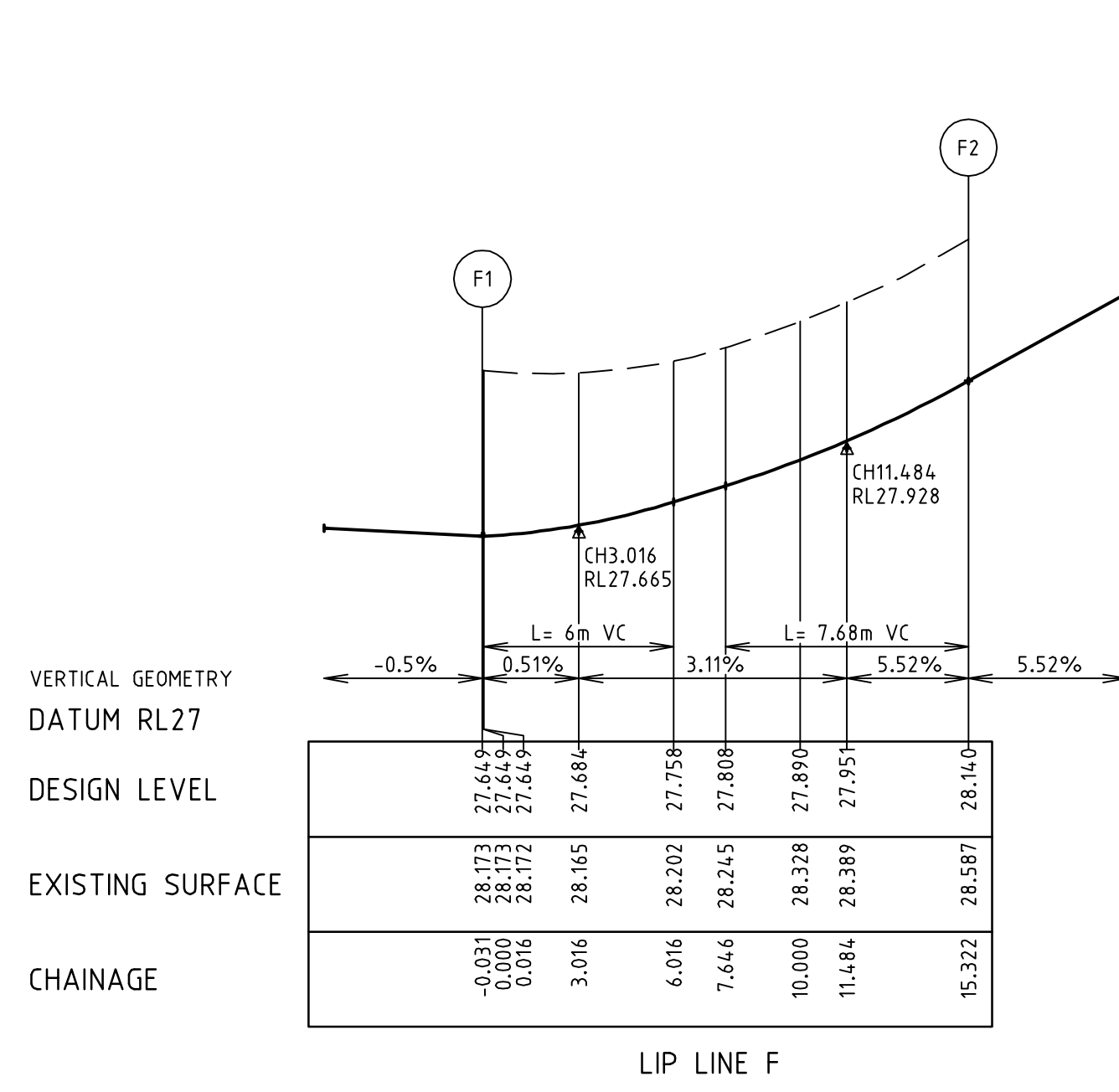
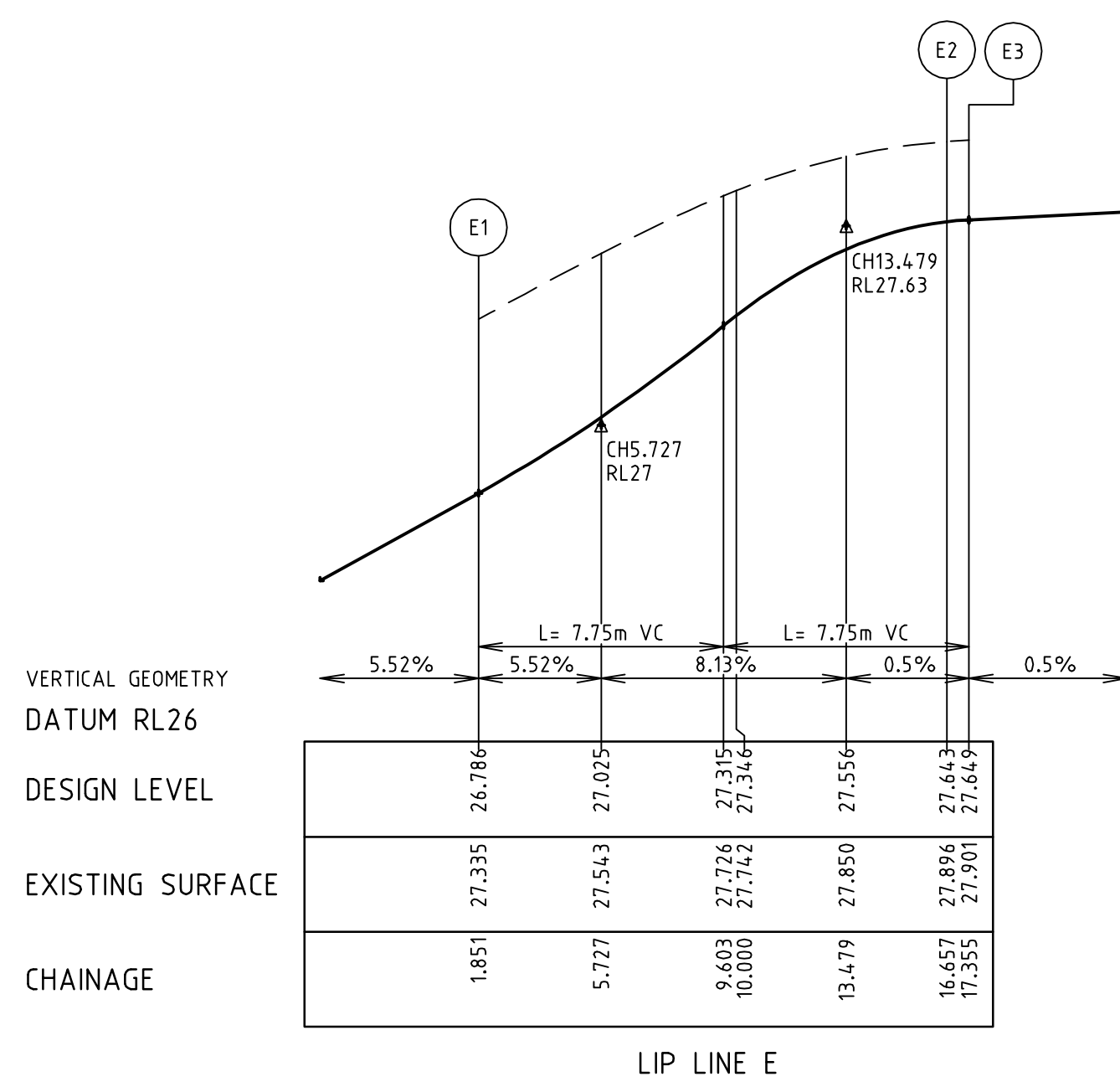
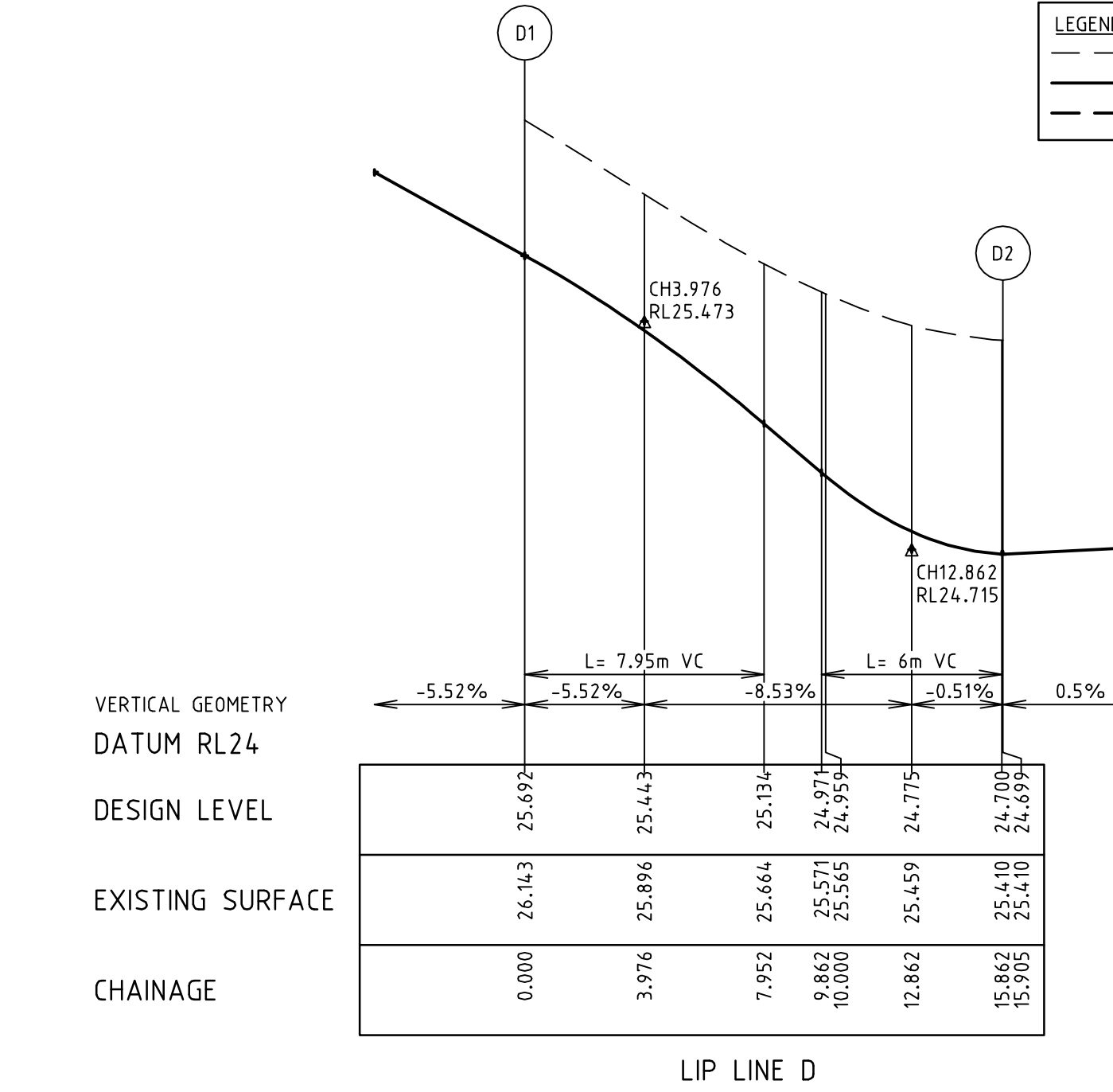
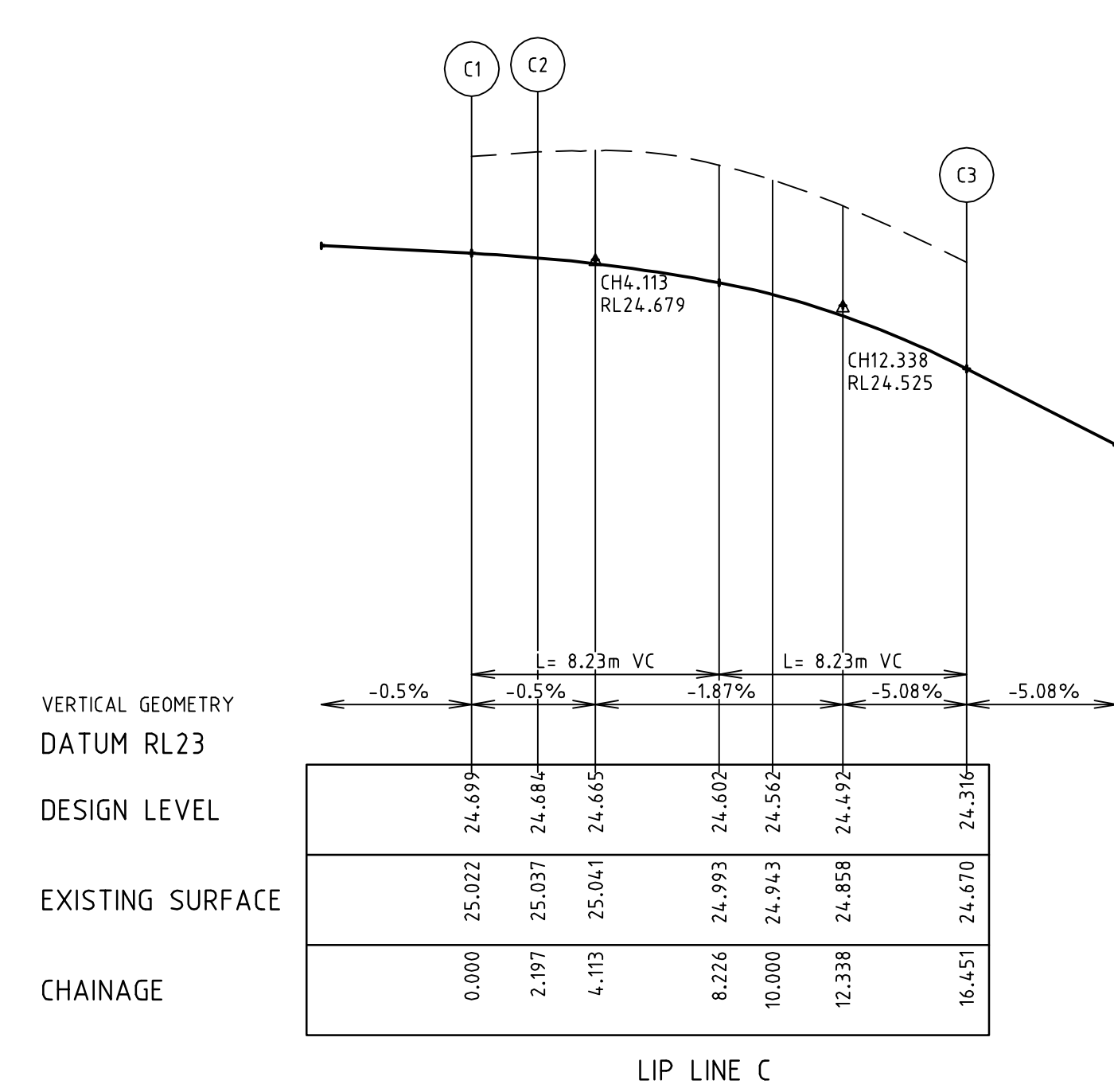
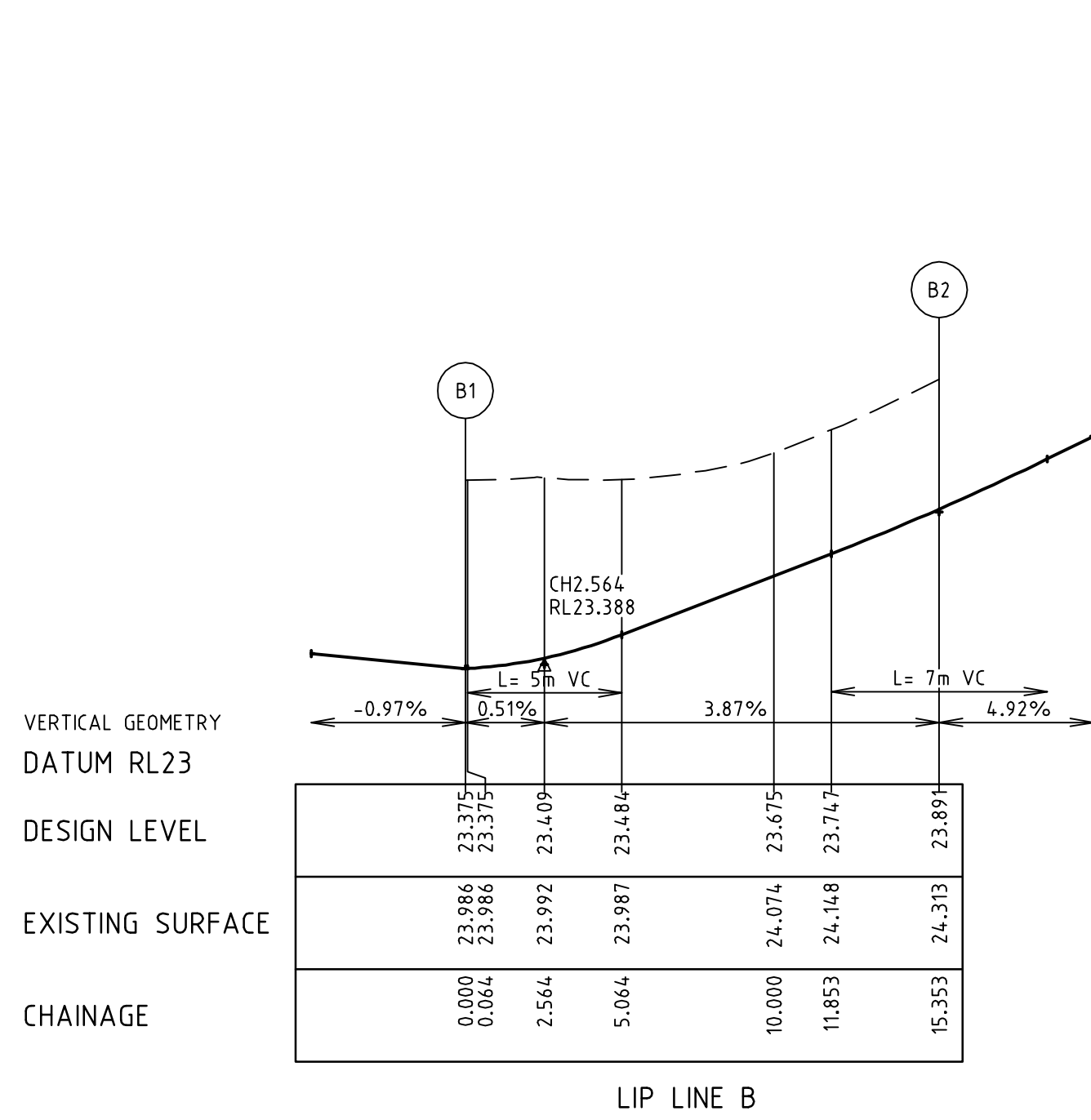
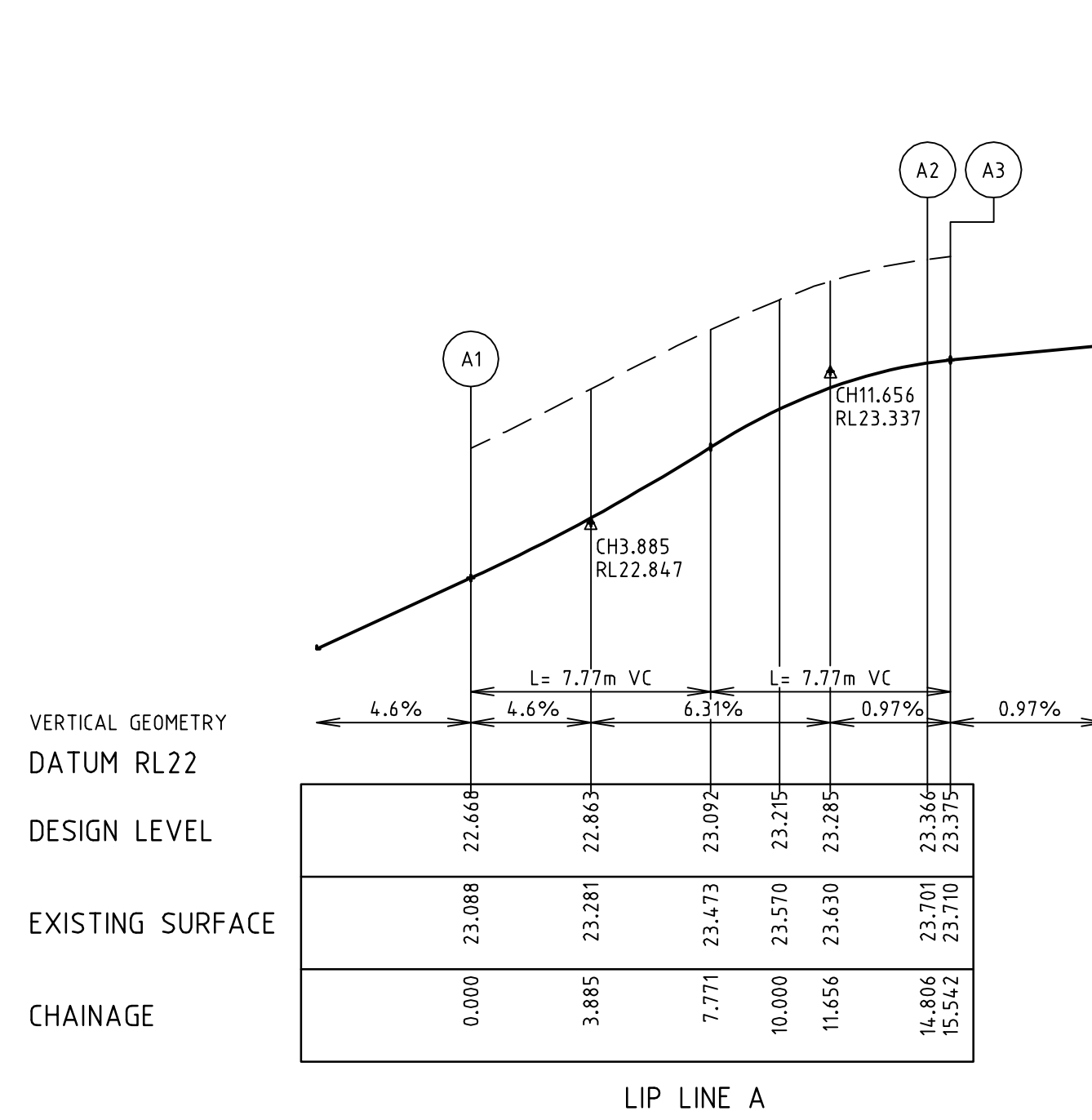
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ESTUARY
 Stage 3
 City Of Greater Geelong
 Roadworks and Drainage
 Intersection Detail Plan - 2

Drawing No. **0250EHL-03-06** Rev **B**
 Sheet No. 6 of 34

Approved for Construction



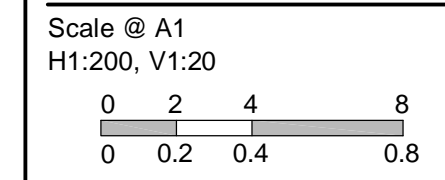
NOTES
 1. CHAINAGES REFER TO LIP OF KERB/EDGE OF CONCRETE.
 2. REFER TO SHEET No 9 FOR SETOUT INFORMATION.

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B	COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A	ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG
REVISION		DATE	DES/DF	APPD

Principal
 Leopold Property Developments Pty Ltd
 Level 1, 6 Riverside Quay
 Southbank, Victoria 3006

Designed
C. Barker
 Drawn
C. Barker
 Checked
C. Birkett
 Authorised
J. Golden
 Date
April 2010



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smec urban consulting group

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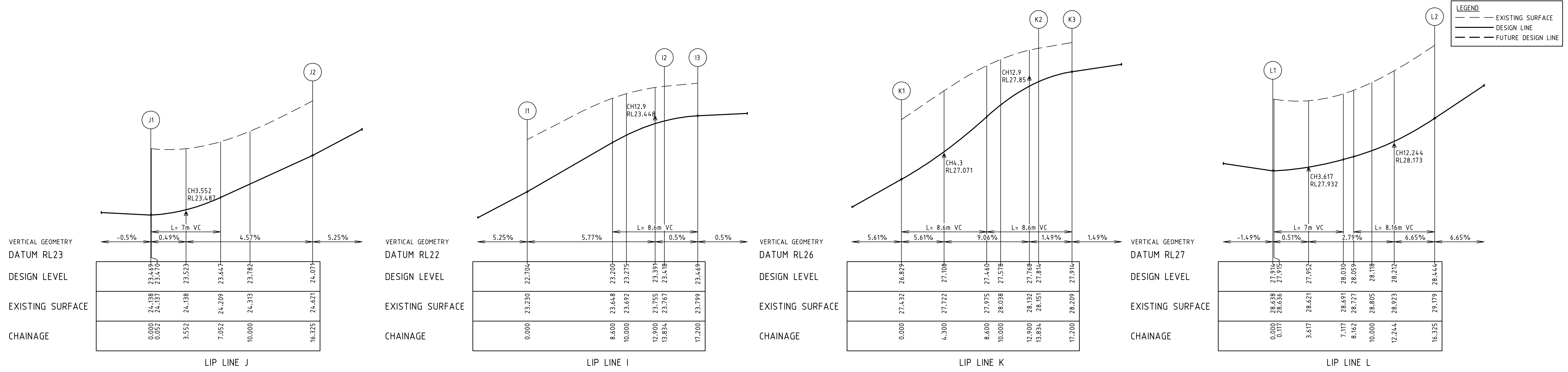
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ESTUARY
 Stage 3
 City Of Greater Geelong
 Roadworks and Drainage
 Lip Profiles - 1

Drawing No. **0250EHL-03-07**
 Sheet No. 7 of 34

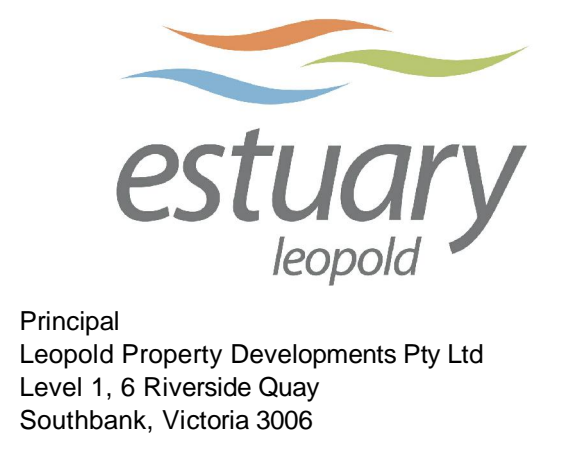
Rev B

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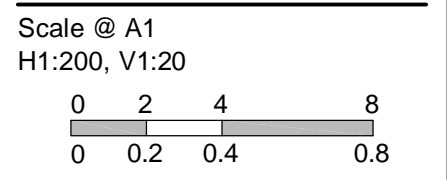


NOTES
 1. CHAINAGES REFER TO LIP OF KERB/EDGE OF CONCRETE.
 2. REFER TO SHEET No 9 FOR SETOUT INFORMATION.

REVISION	DATE	DES/DF	APPD
B	14.07.10	CB/CB	JG
A	18.05.10	CB/CB	JG



Designed
C. Barker
 Drawn
C. Barker
 Checked
C. Birkett
 Authorised
J. Golden
 Date
April 2010



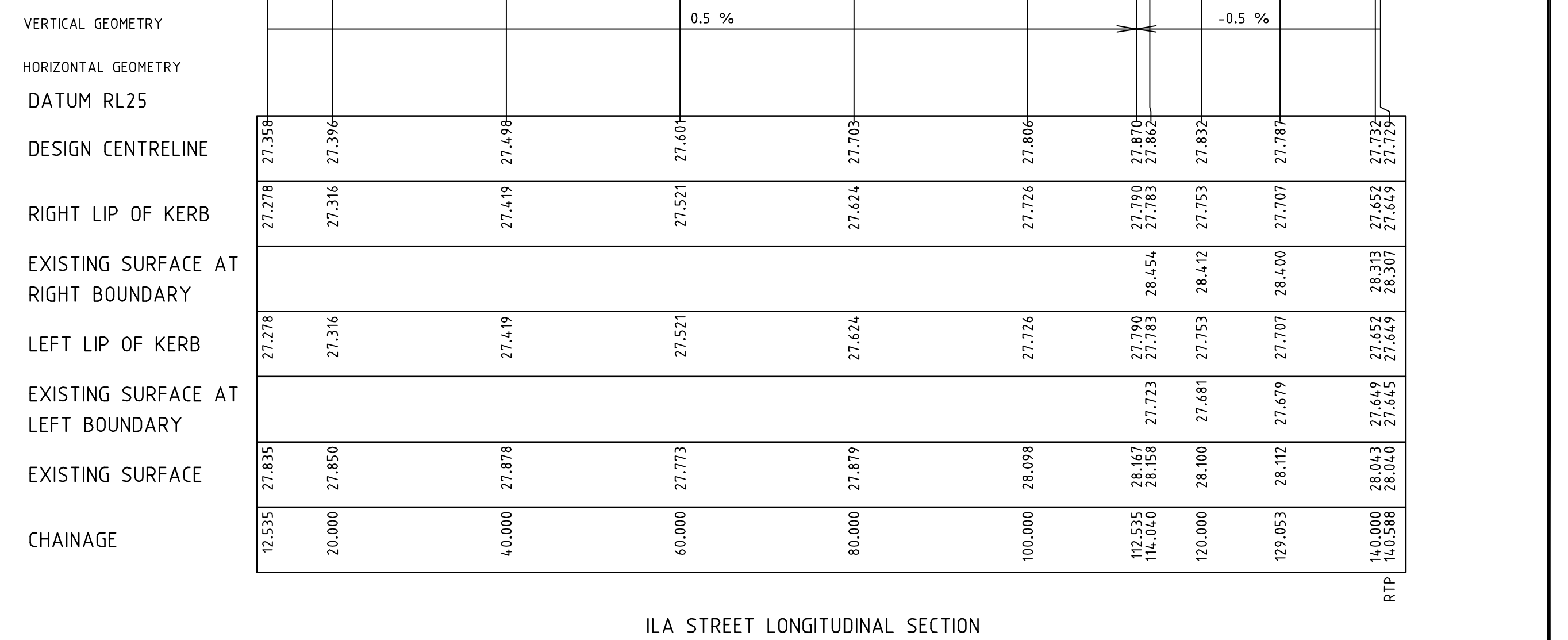
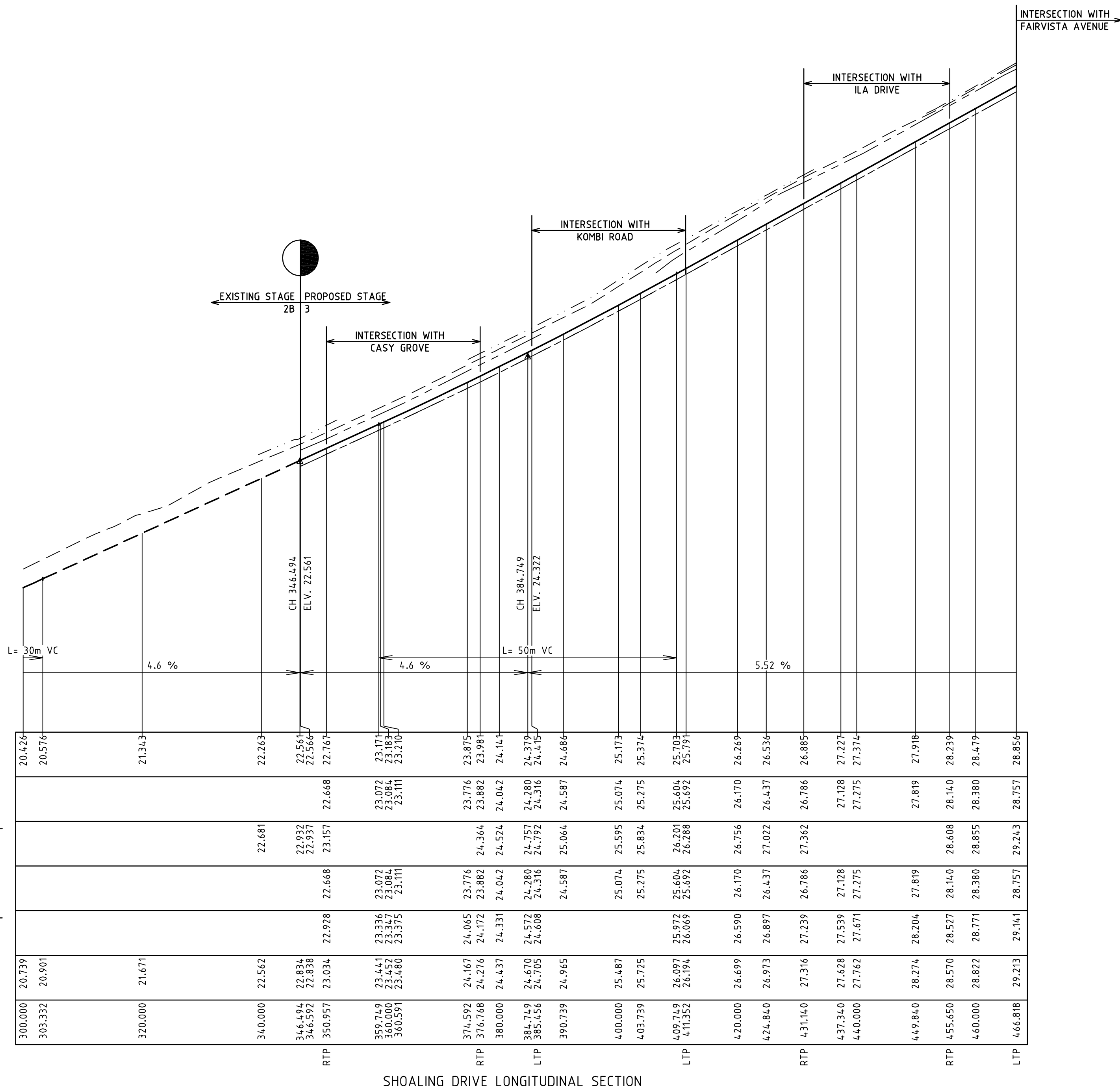
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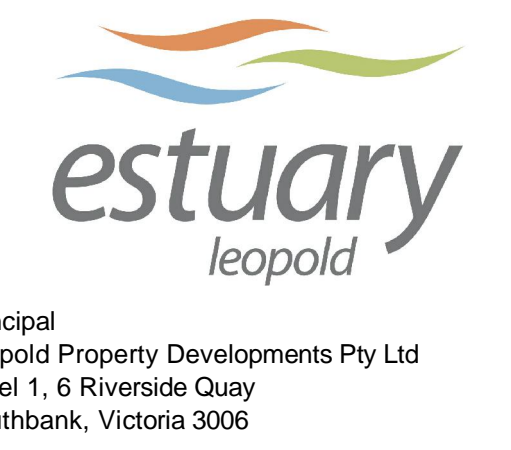
ESTUARY
 Stage 3
 City Of Greater Geelong
 Roadworks and Drainage
 Lip Profiles - 2

Drawing No. **0250EHL-03-08** Rev **B**
 Sheet No. 8 of 34
 Approved for Construction

LEGEND	
---	EXISTING SURFACE
---	DESIGN LINE
---	FUTURE DESIGN LINE
---	RIGHT BUILDING LINE
---	RIGHT LIP OF KERB
---	LEFT BUILDING LINE
---	LEFT LIP OF KERB

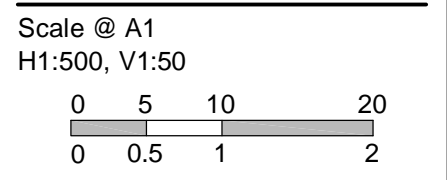


REVISION	DATE	DES/DF	APPD
B COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG



Principal
Leopold Property Developments Pty Ltd
Level 1, 6 Riverside Quay
Southbank, Victoria 3006

Designed
C. Barker
Drawn
C. Barker
Checked
C. Birkett
Authorised
J. Golden
Date
April 2010



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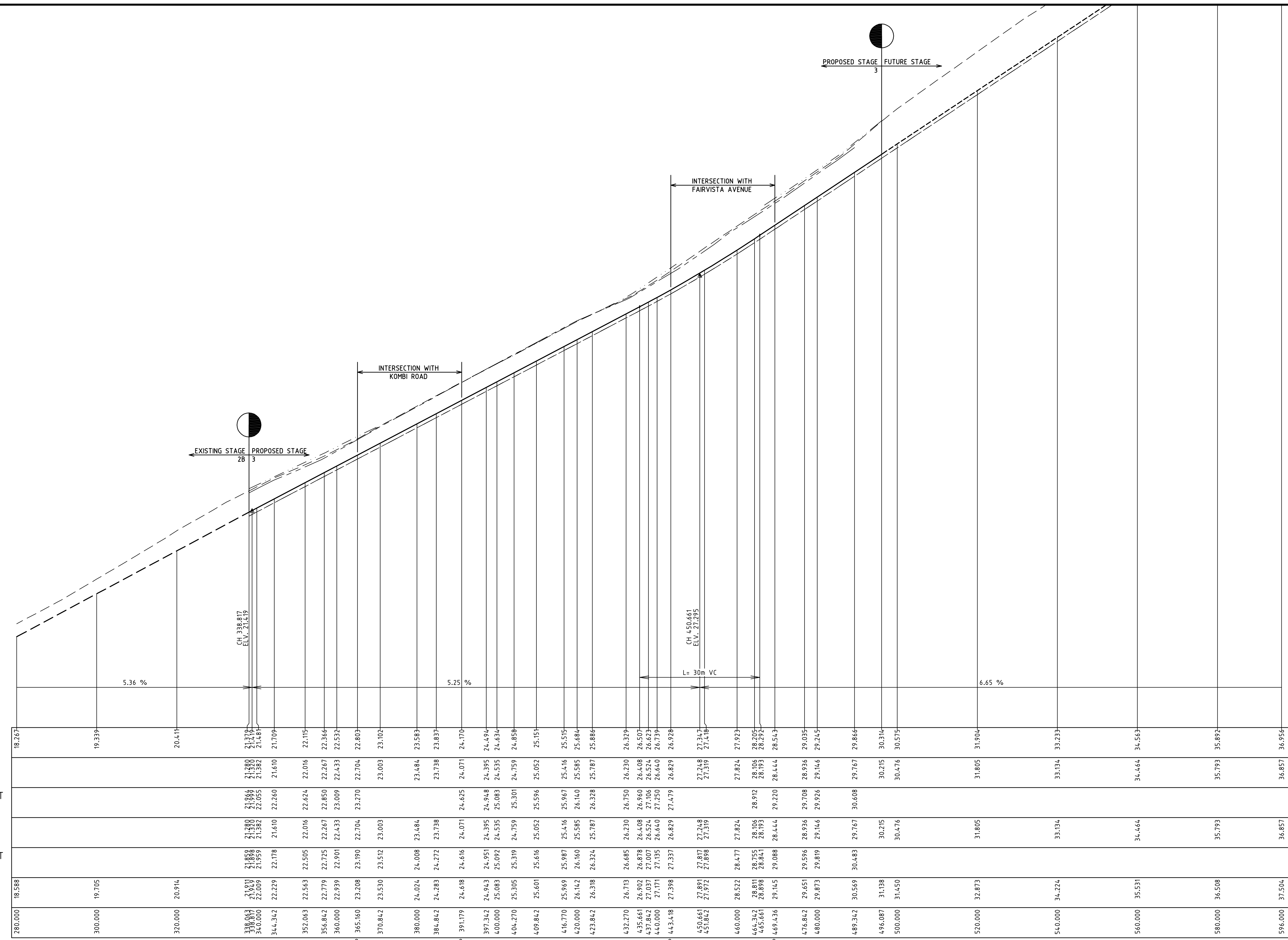
Adelaide +61 8 8223 6455 Gold Coast +61 7 5578 0222
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Carlisle +61 2 6126 1900 Tarragon +61 3 5173 0100

ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Longitudinal Sections - 1

Drawing No. **0250EHL-03-10** Rev **B**
Sheet No. 10 of 34

Approved for Construction

LEGEND	
---	EXISTING SURFACE
---	DESIGN LINE
---	FUTURE DESIGN LINE
---	RIGHT BUILDING LINE
---	RIGHT LIP OF KERB
---	LEFT BUILDING LINE
---	LEFT LIP OF KERB



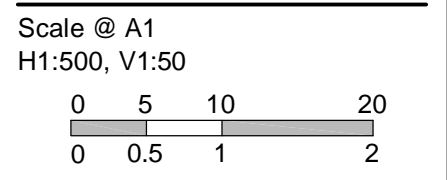
HILLCLIMB DRIVE LONGITUDINAL SECTION

I:\work\eng\0250EHL - horomts\leopard\0250EHL - 30xg\0250EHL03-11

REVISION	DATE	DES/DF/T	APP/D
B	14.07.10	CB/CB	JG
A	18.05.10	CB/CB	JG

Principal
Leopold Property Developments Pty Ltd
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Southbank, Victoria 3006

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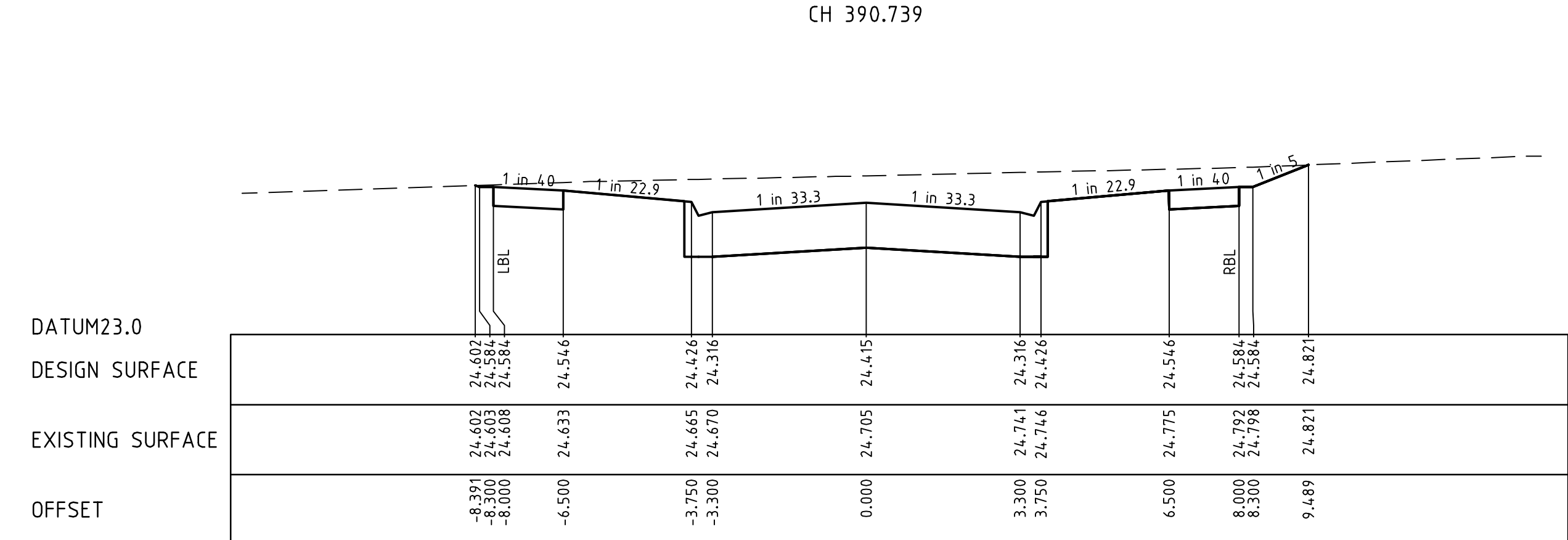
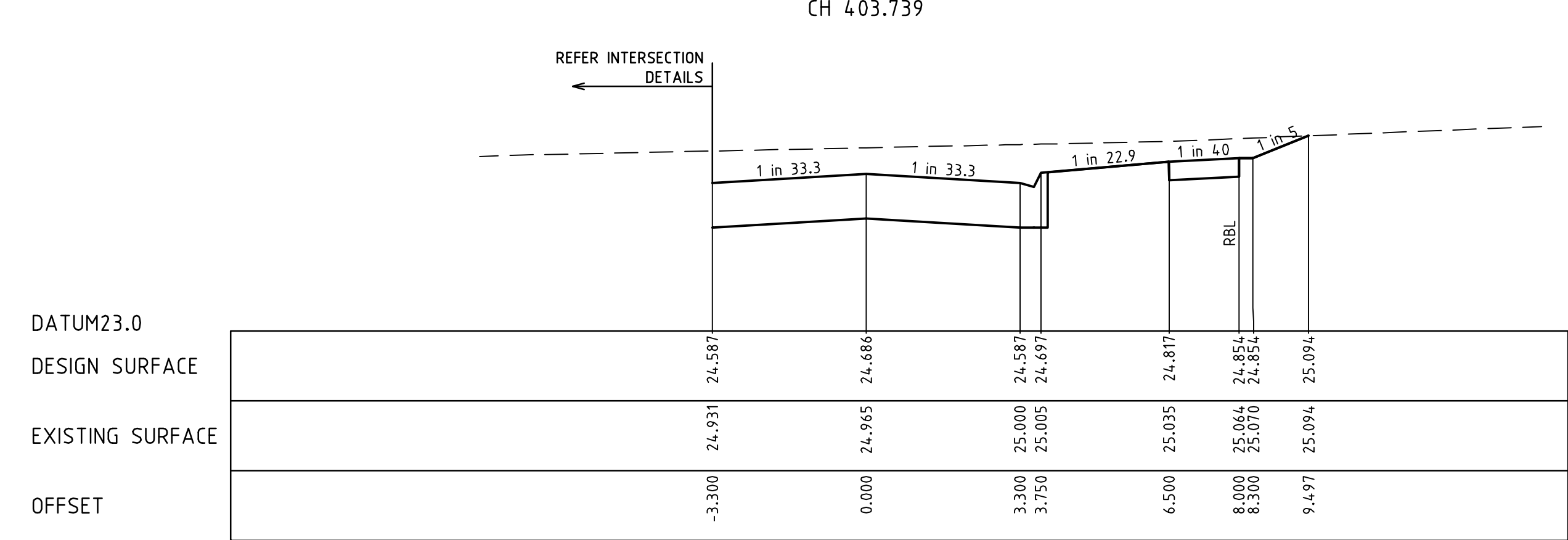
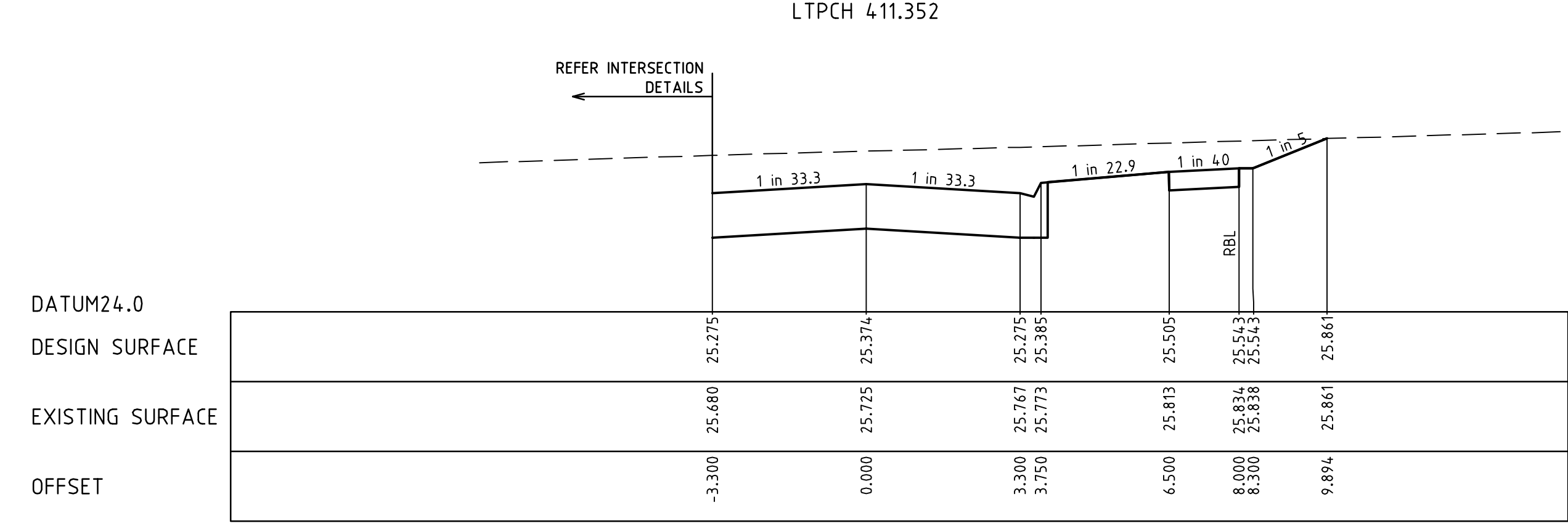
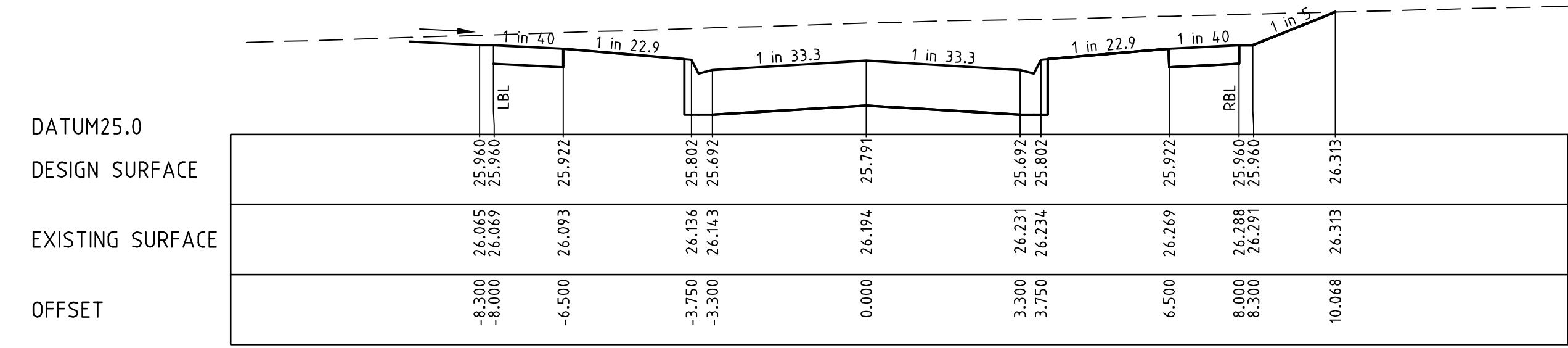
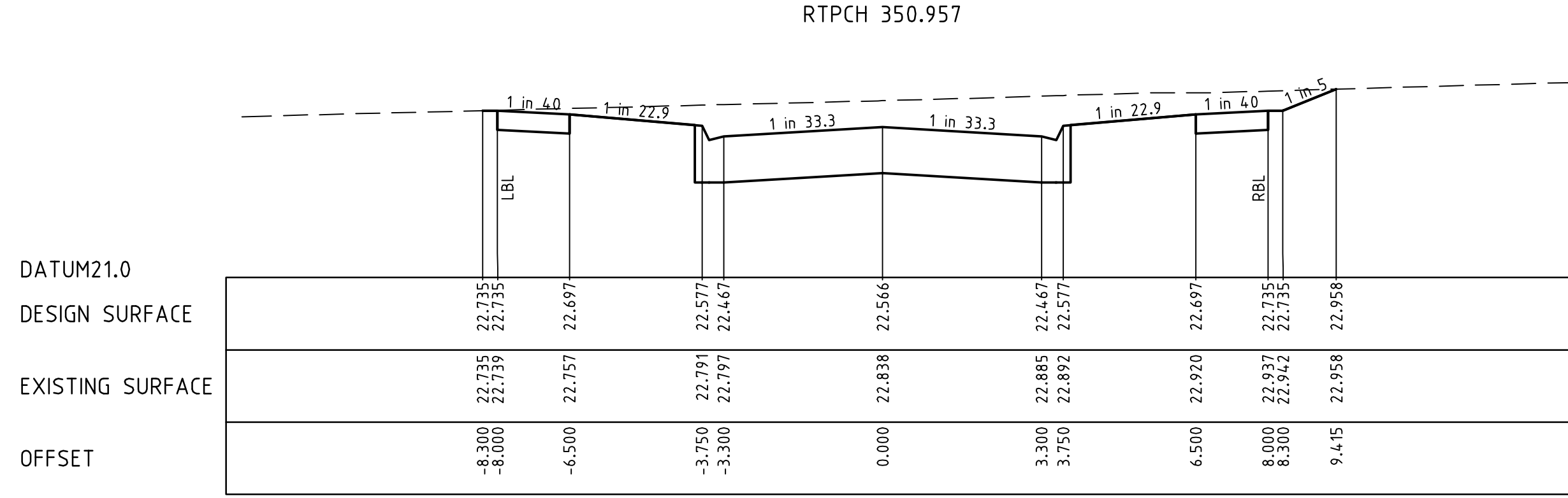
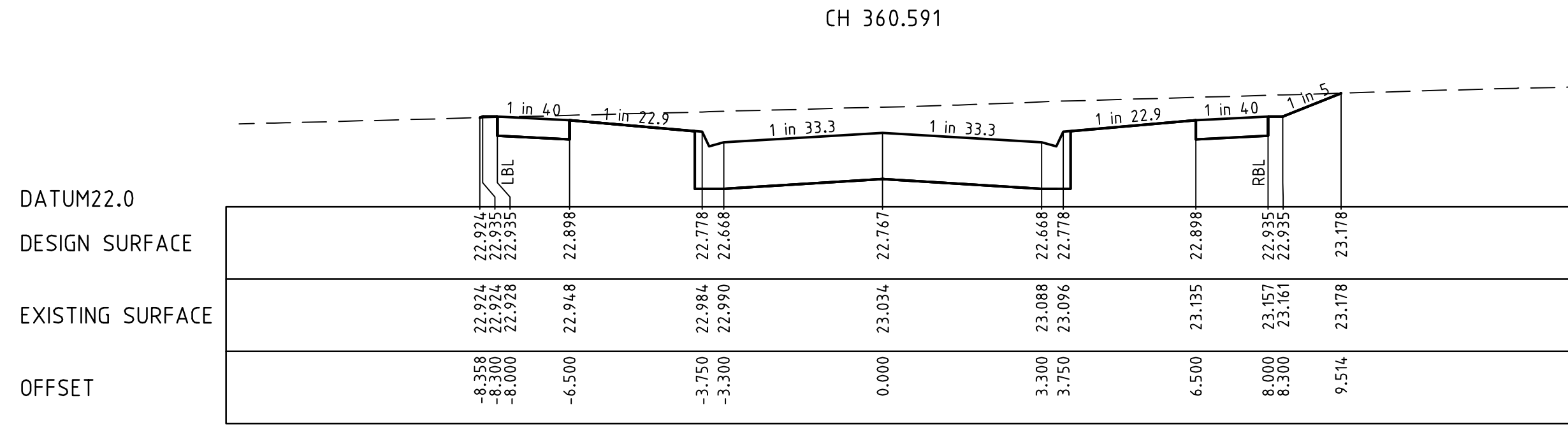
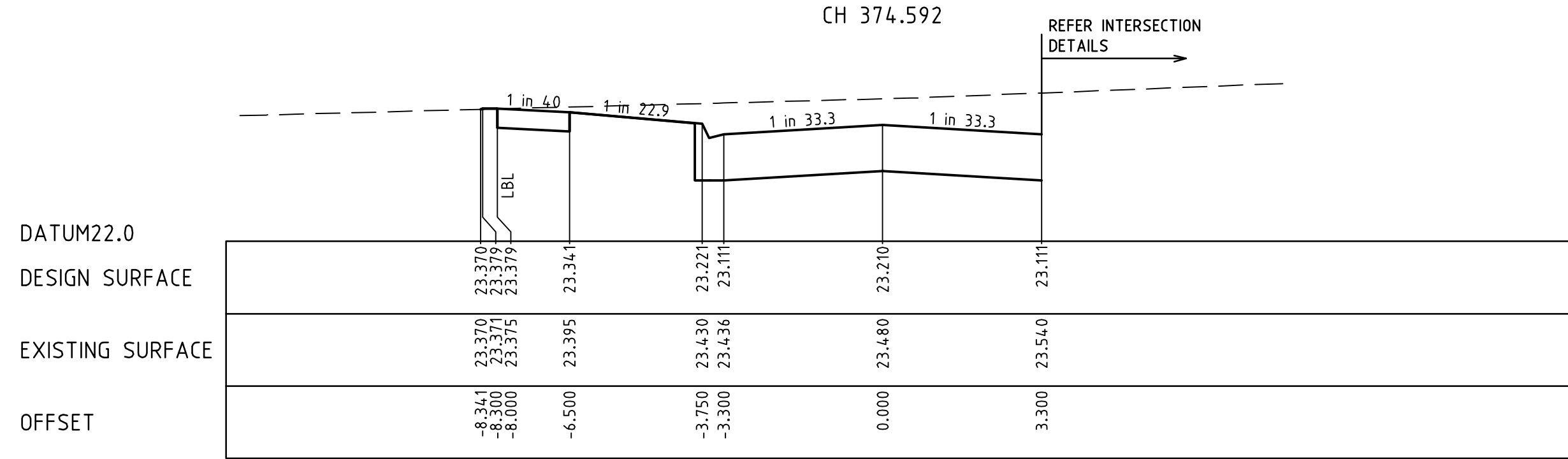
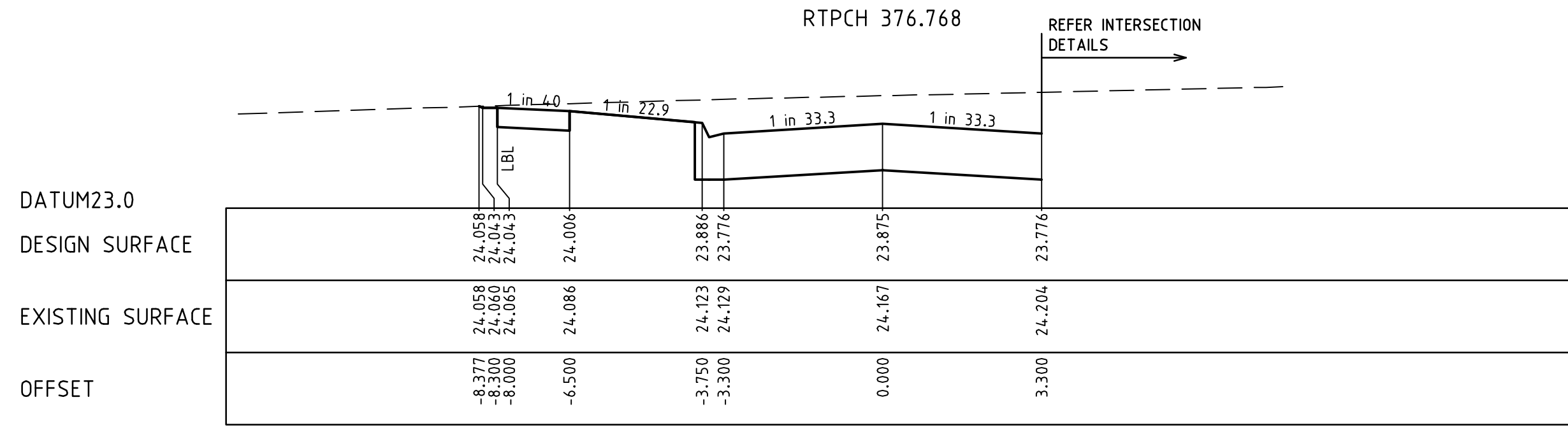
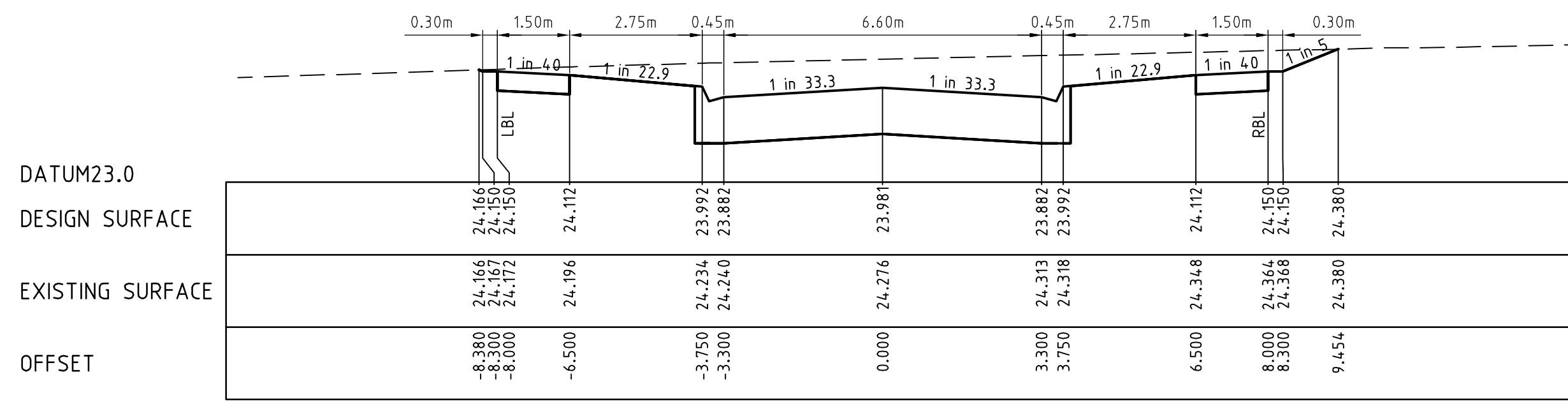
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ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Longitudinal Sections - 2

Drawing No. **0250EHL-03-11** Rev B
Sheet No. 11 of 34

Approved for Construction

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

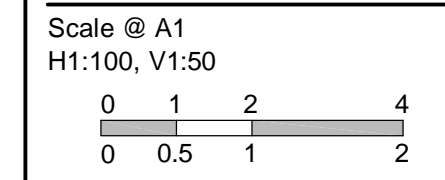


REVISION					
B	COUNCIL AMENDMENTS	14.07.10	CB/CB	JG	
A	ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG	
DATE	DES/DT	APPD			



Principal
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Southbank, Victoria 3006

Designed
C. Barker
Drawn
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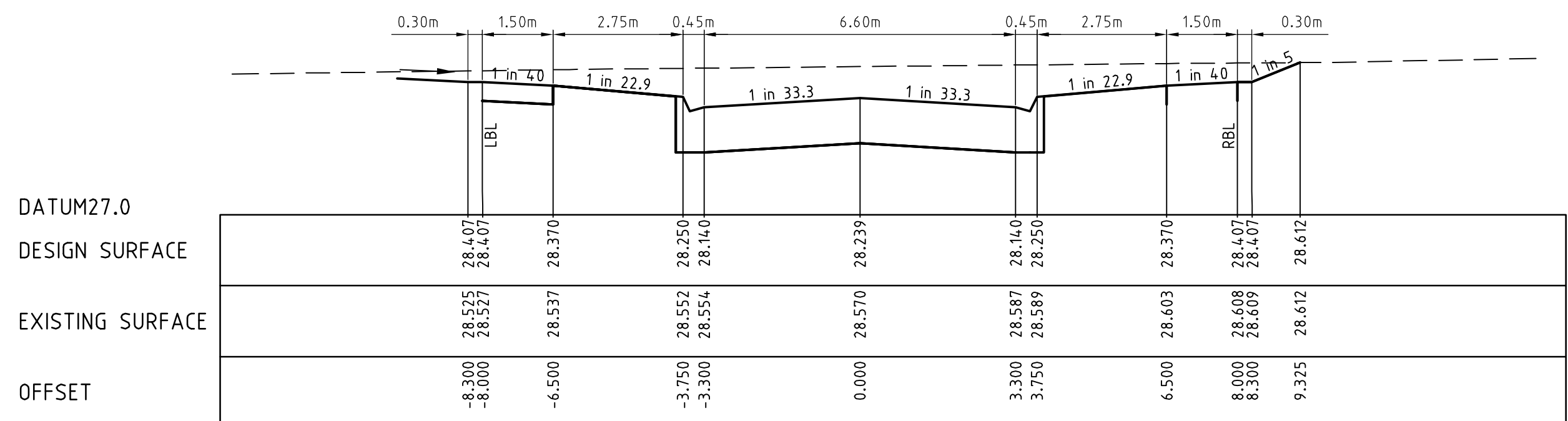
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Brisbane +61 7 3831 8988 Melbourne +61 3 9869 0800
Canberra +61 2 6126 1900 Tarragona +61 3 5173 0100

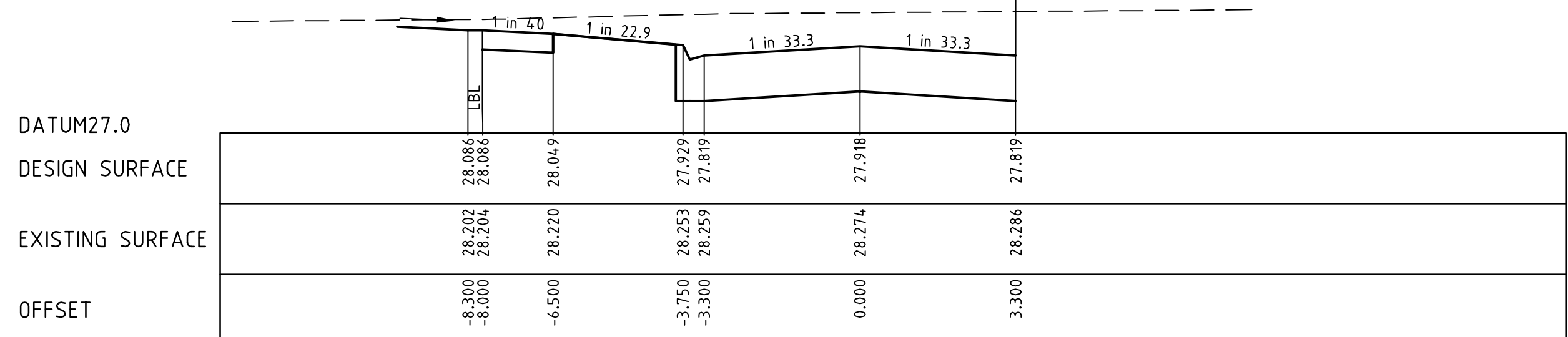
ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Cross Sections Shoaling Drive - 1
CH346.592 - CH411.352
Drawing No. 0250EHL-03-13 **Rev B**
Sheet No. 13 of 34

Approved for Construction

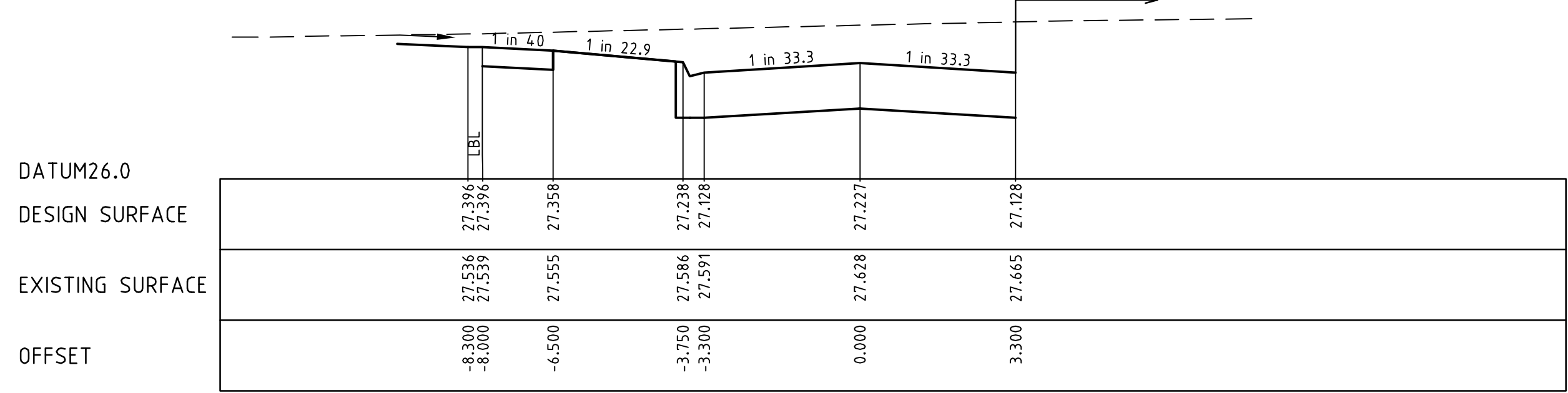
---	EXISTING SURFACE
—	DESIGN LINE
- - -	FUTURE DESIGN LINE



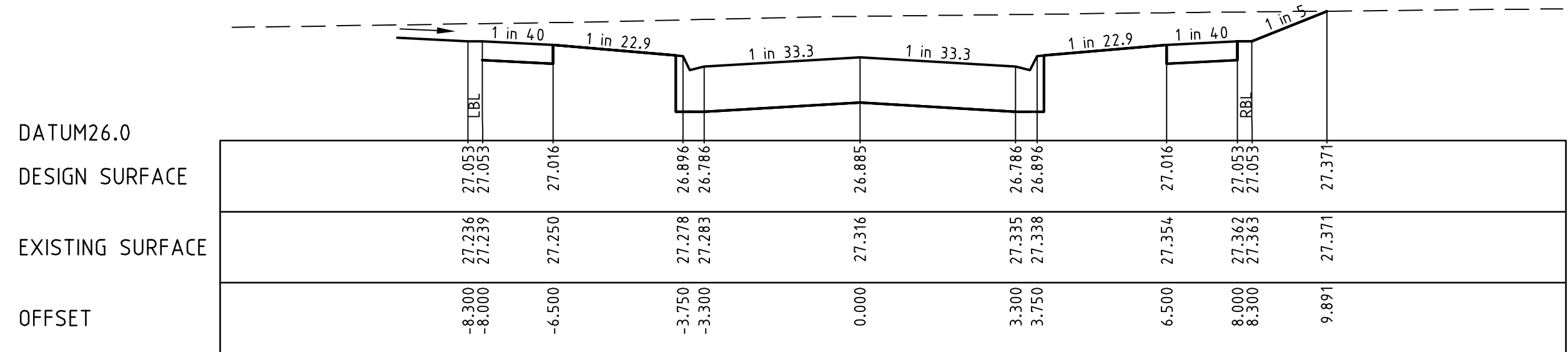
RTPCH 455.650 REFER INTERSECTION DETAILS



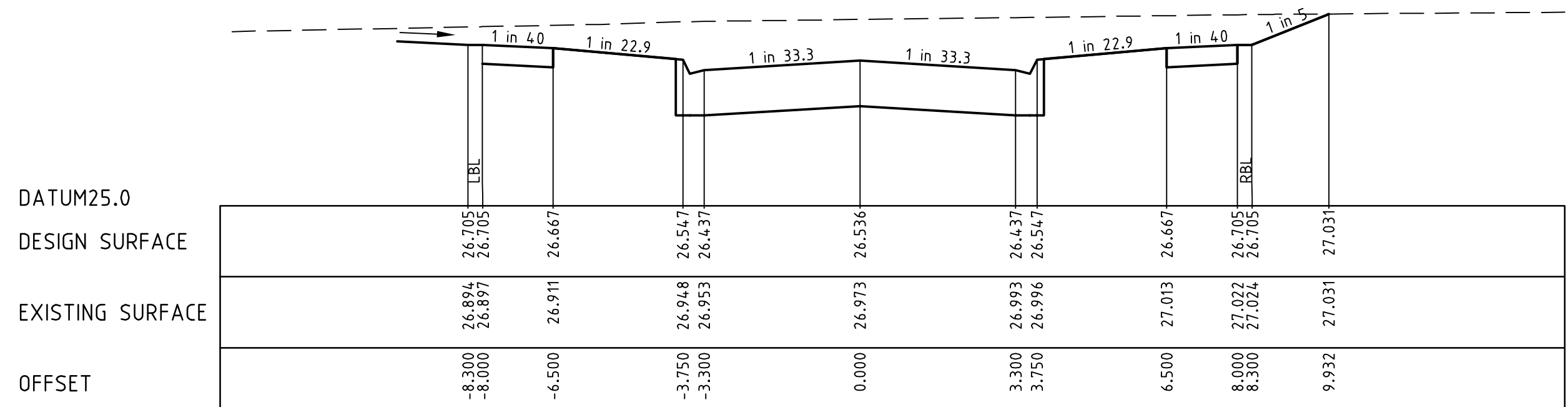
CH 449.840 REFER INTERSECTION DETAILS



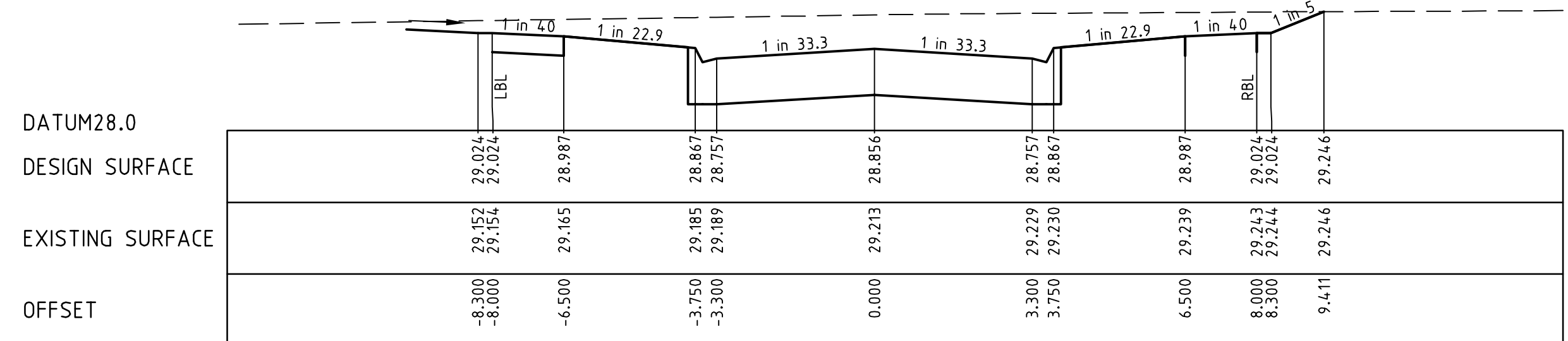
CH 437.340



RTPCH 431.140



CH 424.840



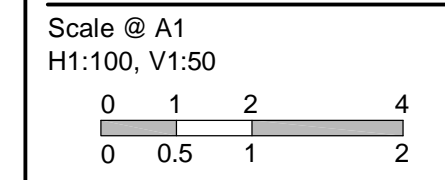
CH 466.818

B	COUNCIL AMENDMENTS		14.07.10	CB/CB	JG
A	ISSUED TO COUNCIL FOR APPROVAL		18.05.10	CB/CB	JG
REVISION		DATE	DES/DF	APPD	



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Authorised
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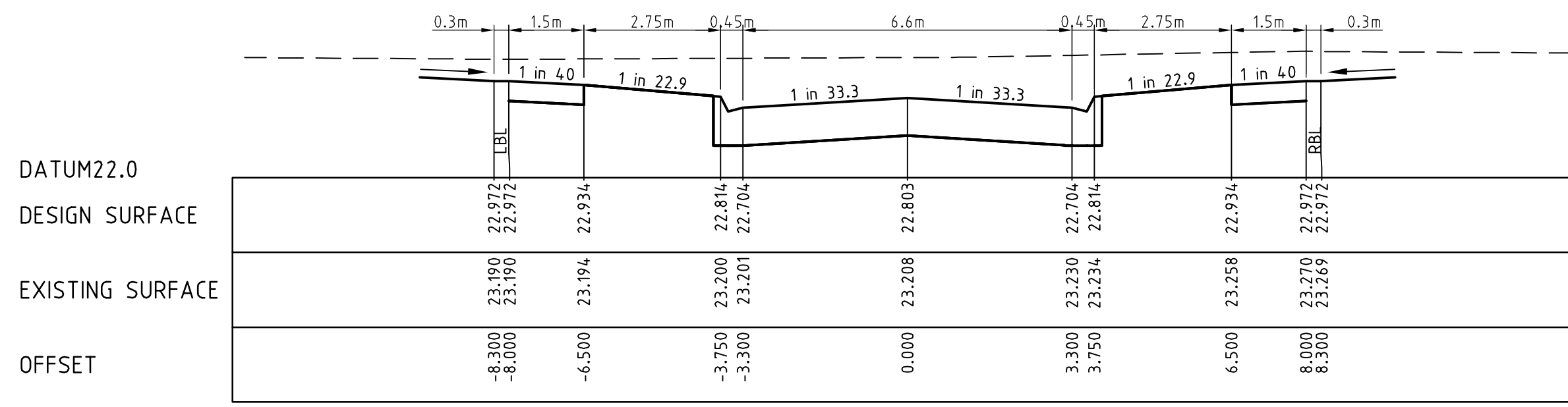


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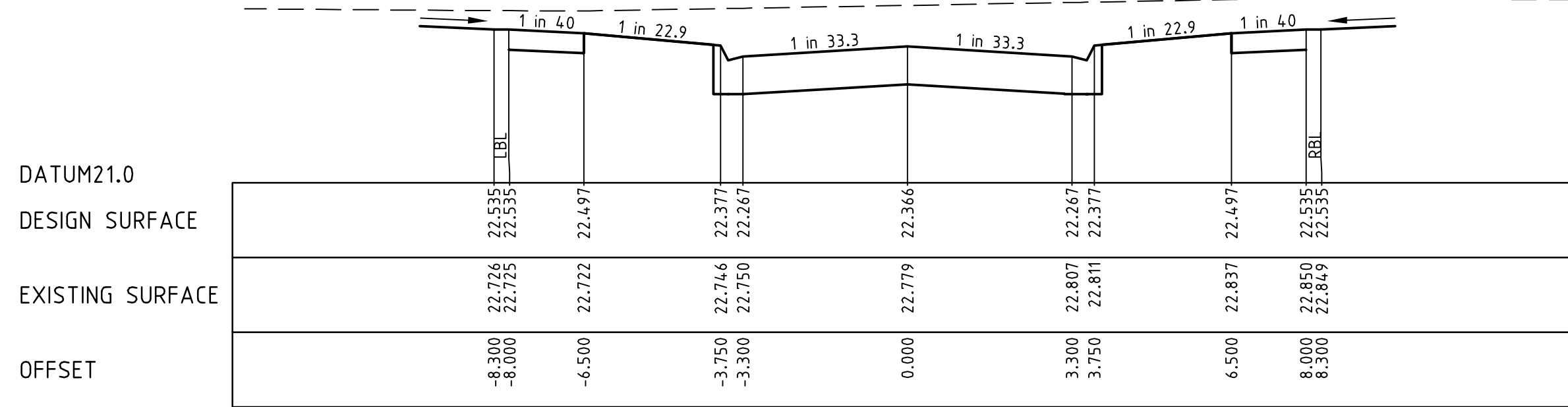
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Tarragona +61 3 5173 0100

ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Cross Sections Shoaling Drive - 2
CH423.840 - CH466.818
Drawing No. 0250EHL-03-14 **Rev B**
Sheet No. 14 of 34

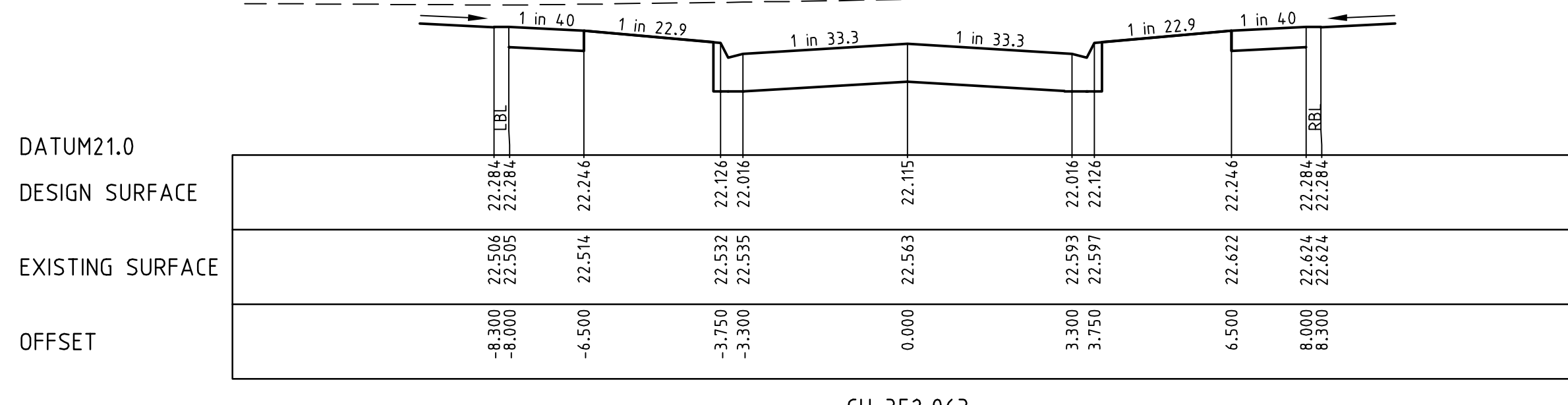
Approved for Construction



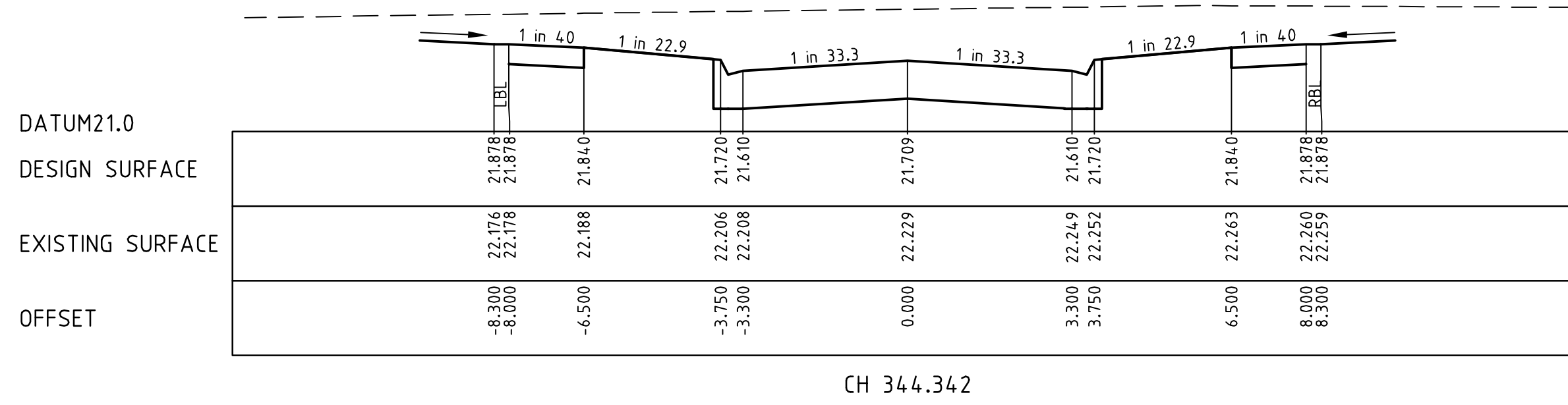
RTPCH 365.160



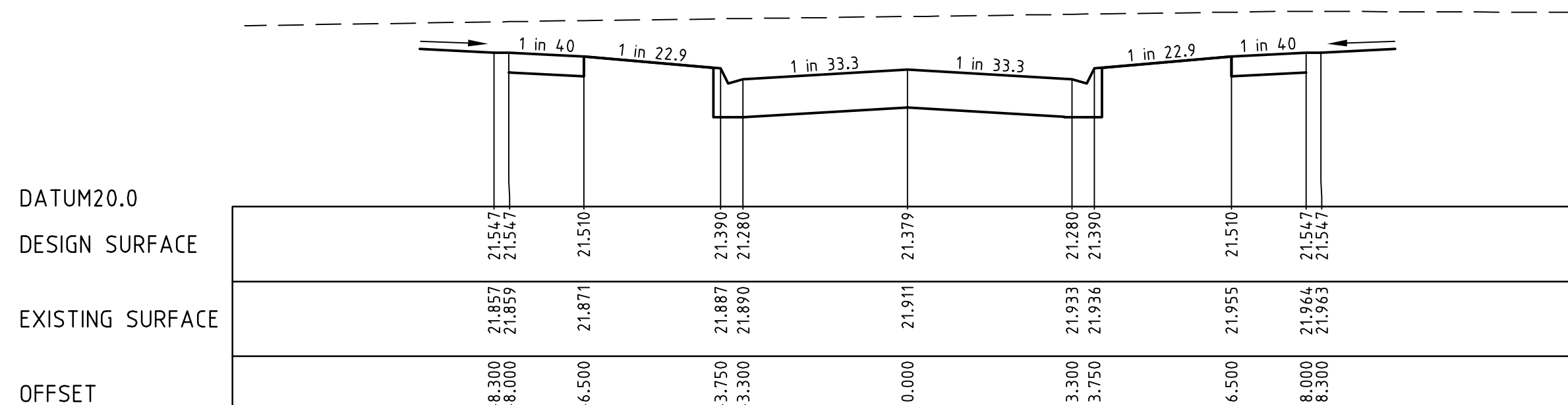
CH 356.842



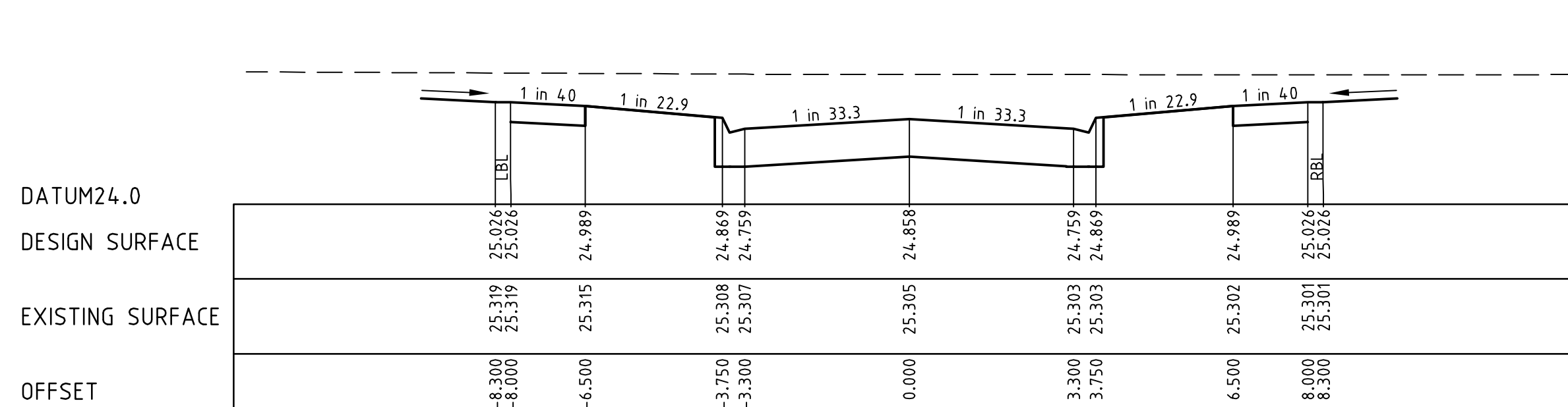
CH 352.063



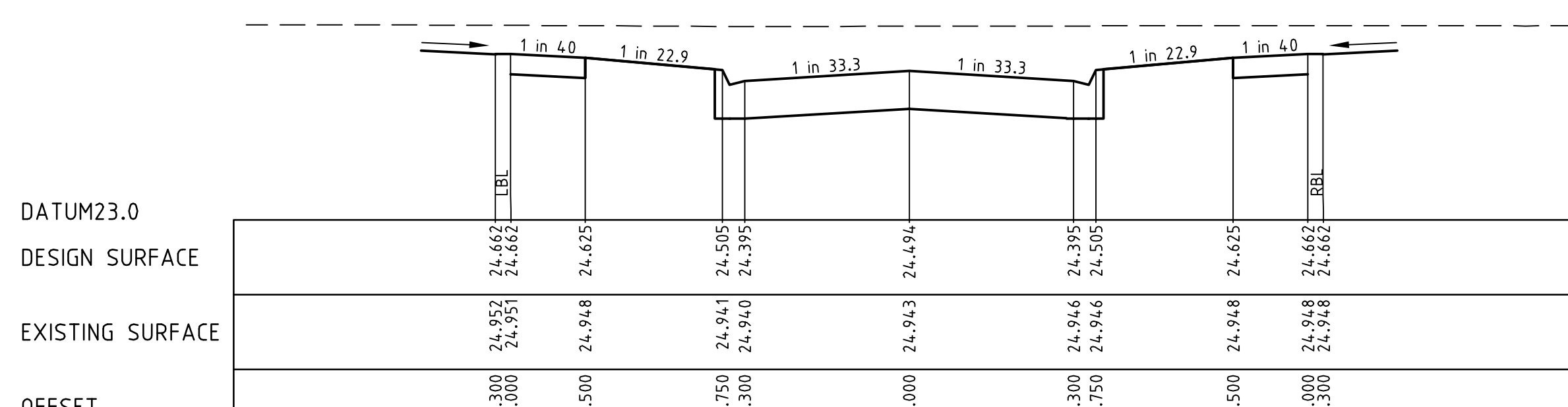
CH 344.342



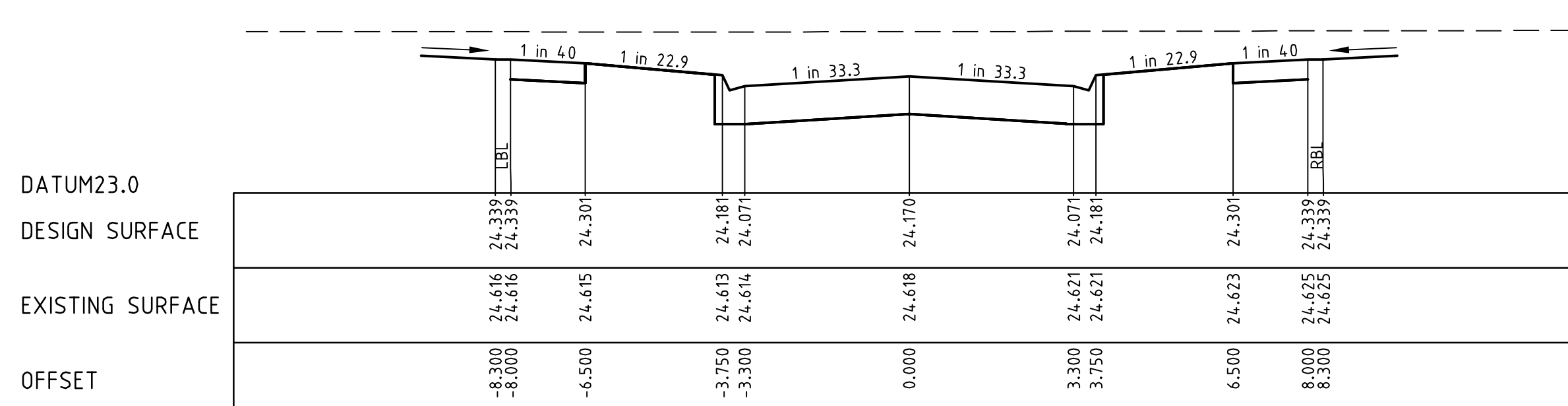
CH 338.063



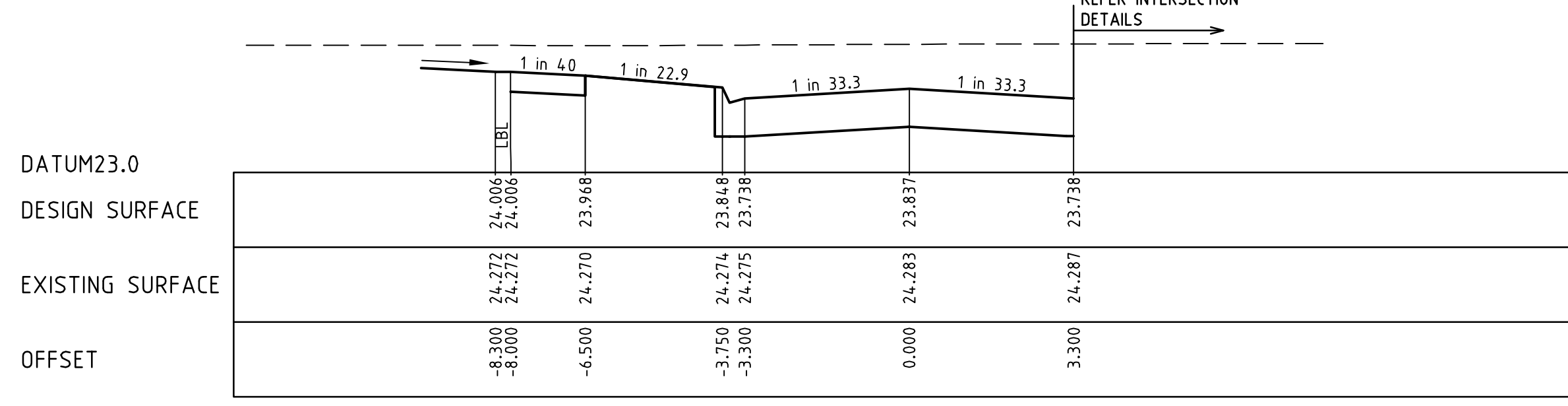
CH 404.270



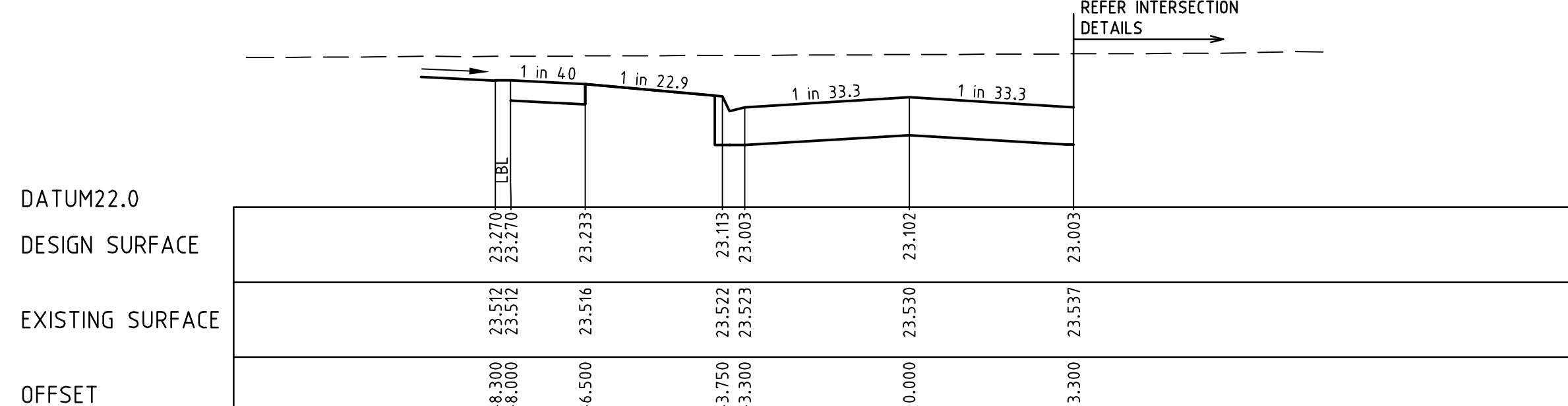
CH 397.342



RTPCH 391.179



CH 384.842



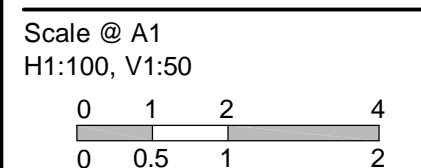
CH 370.842

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE

REVISION	DATE	DES/DT	APPD
B COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG

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Level 1, 6 Riverside Quay
Southbank, Victoria 3006

Designed
C. Barker
Drawn
C. Barker
Checked
C. Birckett
Authorised
J. Golden
Date
April 2010



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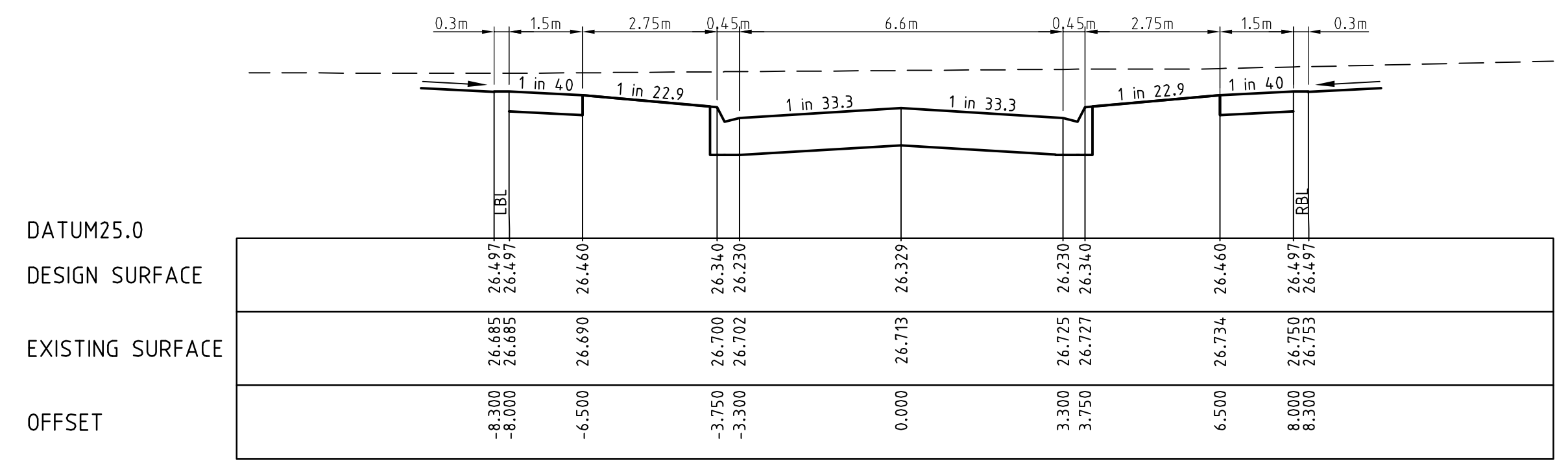
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Gold Coast +61 7 5578 0222
Melbourne +61 3 9869 0800
Traralgon +61 3 5173 0100

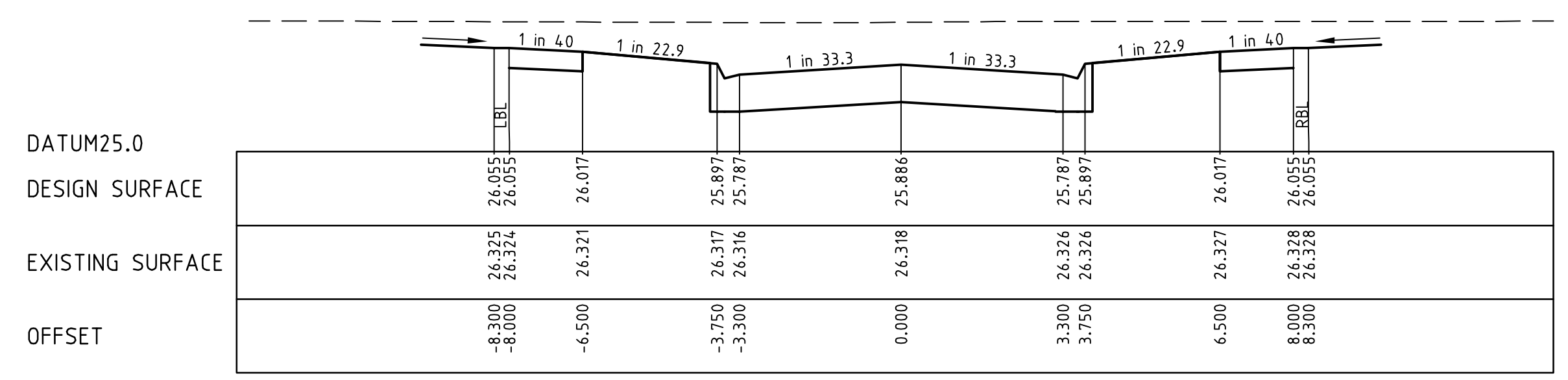
ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Cross Sections Hillclimb Drive - 1
CH338.063 - CH404.270
Drawing No. 0250EHL-03-15
Sheet No. 15 of 34

Rev B
Approved for Construction

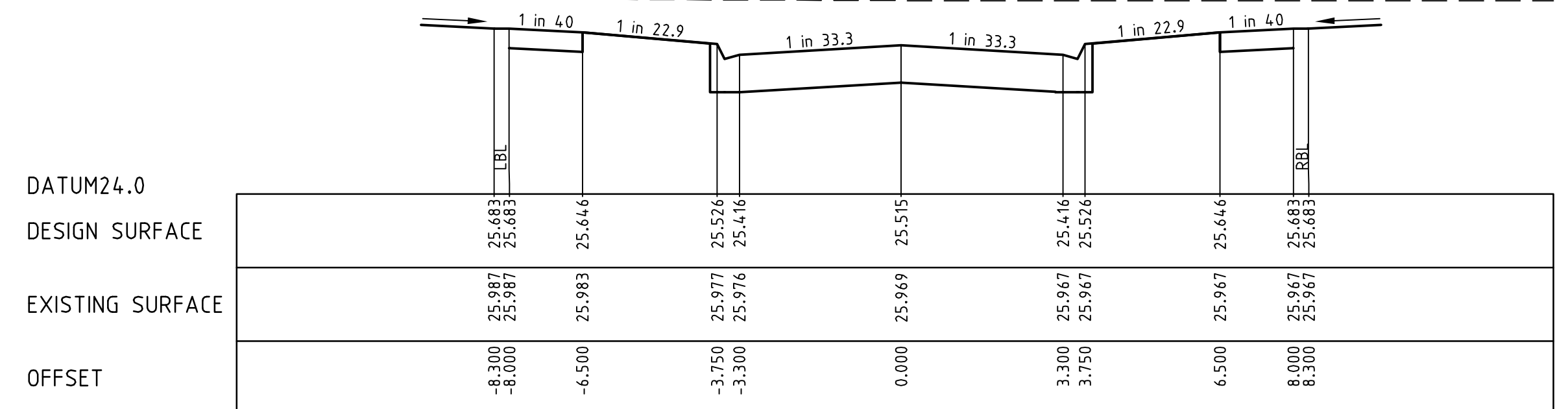
LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE



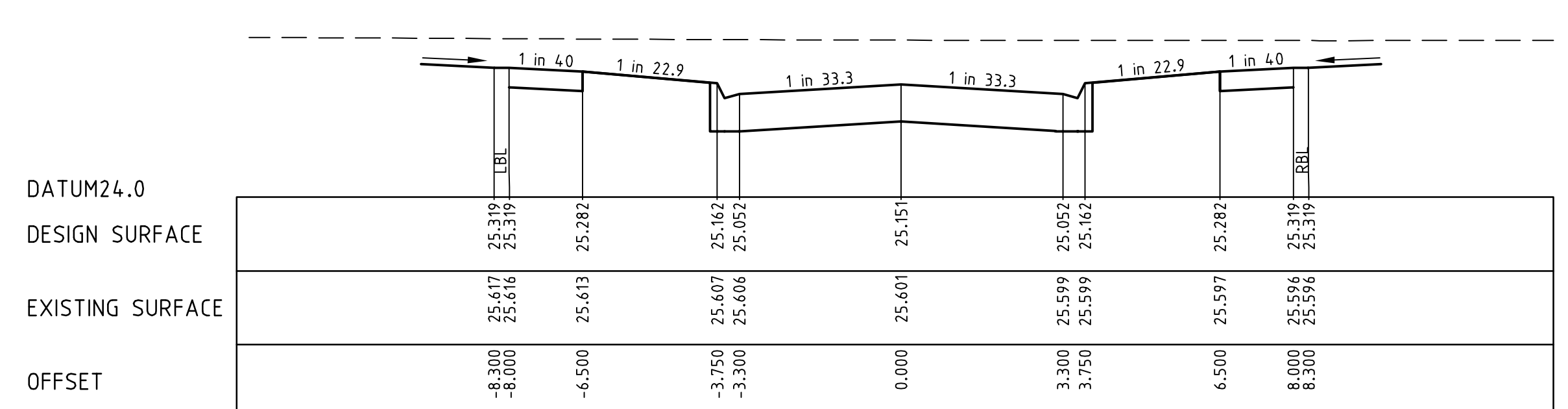
CH 432.270



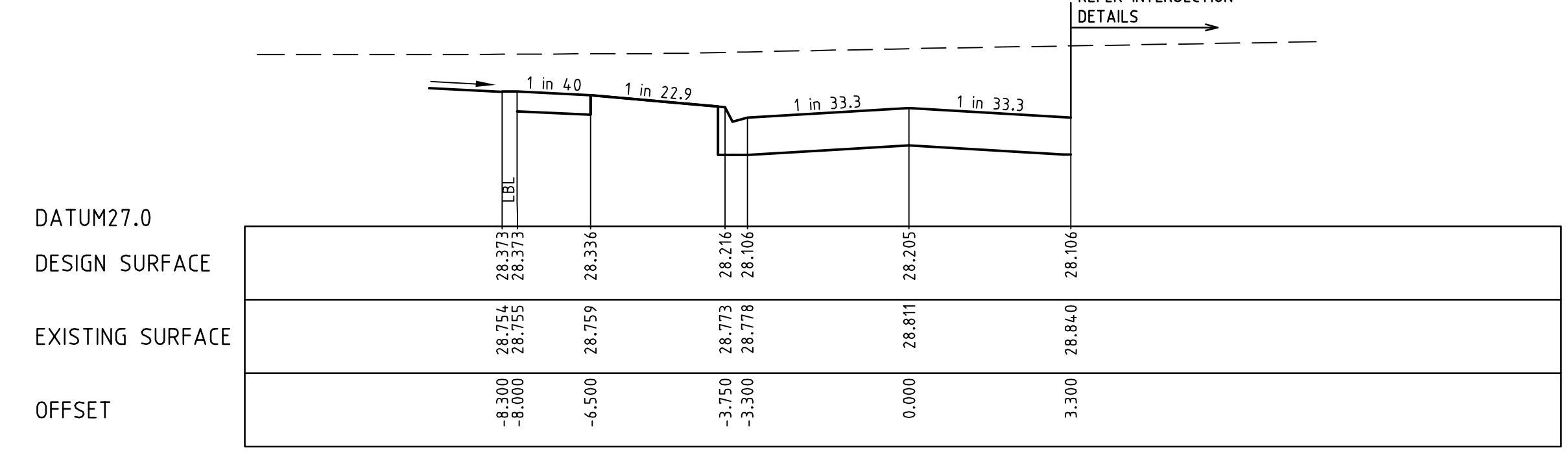
CH 423.842



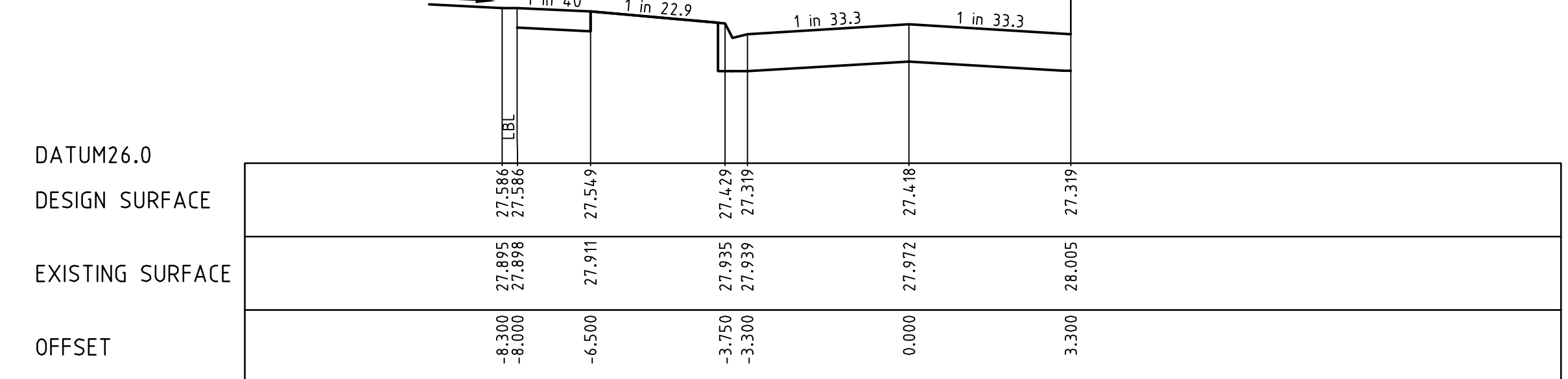
CH 416.770



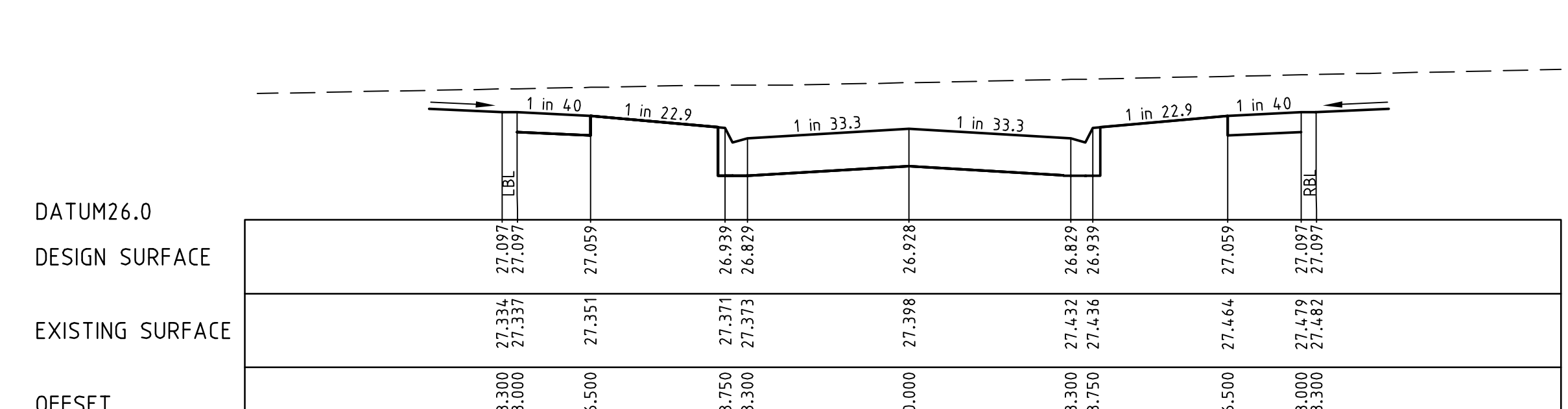
CH 409.842



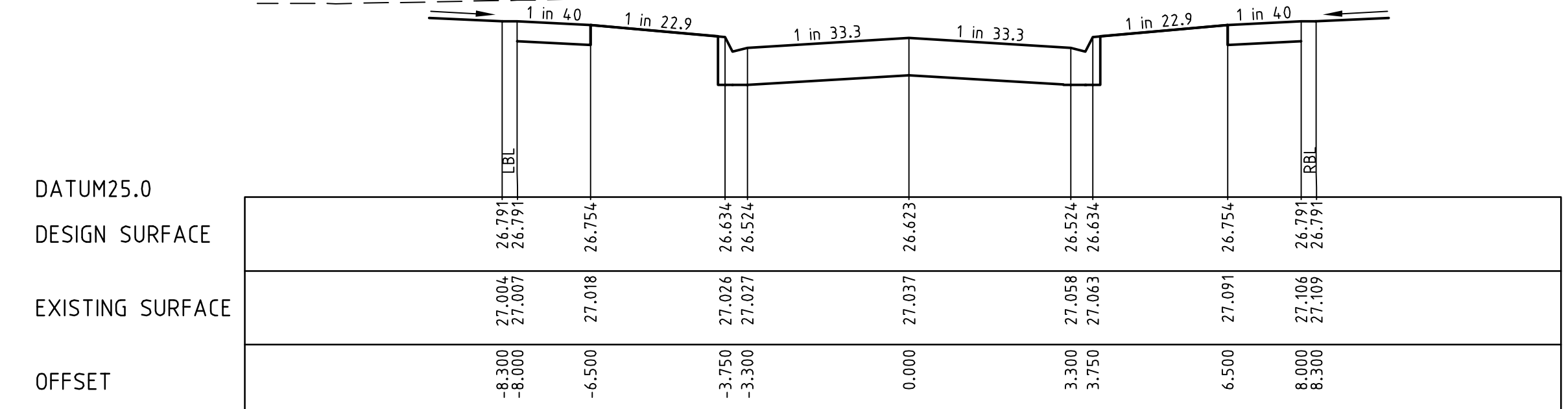
CH 464.342



CH 451.842



RTPCH 44.3.418



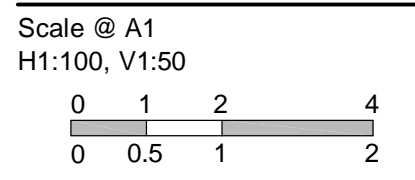
CH 437.842

REVISION					
B	COUNCIL AMENDMENTS	14.07.10	CB/CB	JG	
A	ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG	
DATE	DES/DT	APPD			



Principal
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Level 1, 6 Riverside Quay
Southbank, Victoria 3006

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C. Barker
Drawn
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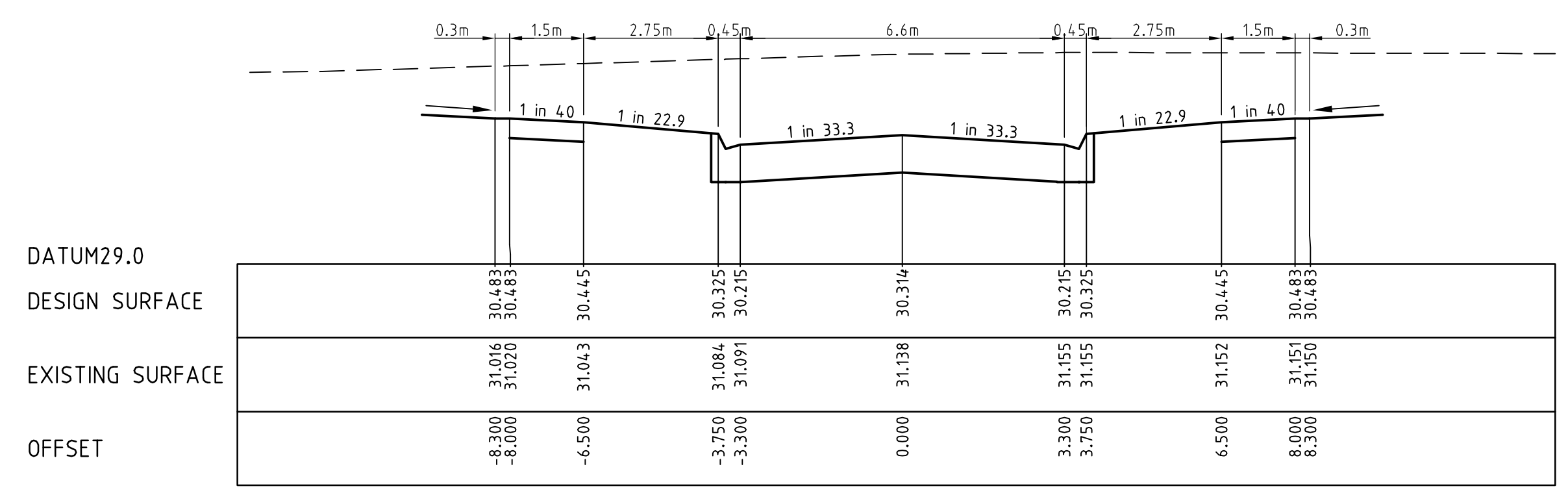
Adelaide +61 8 8223 6455
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Carlisle +61 2 6126 1900
Gold Coast +61 7 5578 0222
Melbourne +61 3 9869 0800
Tarragona +61 3 5173 0100

ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Cross Sections Hillclimb Drive - 2
CH409.842 - CH464.342
Drawing No. 0250EHL-03-16
Sheet No. 16 of 34

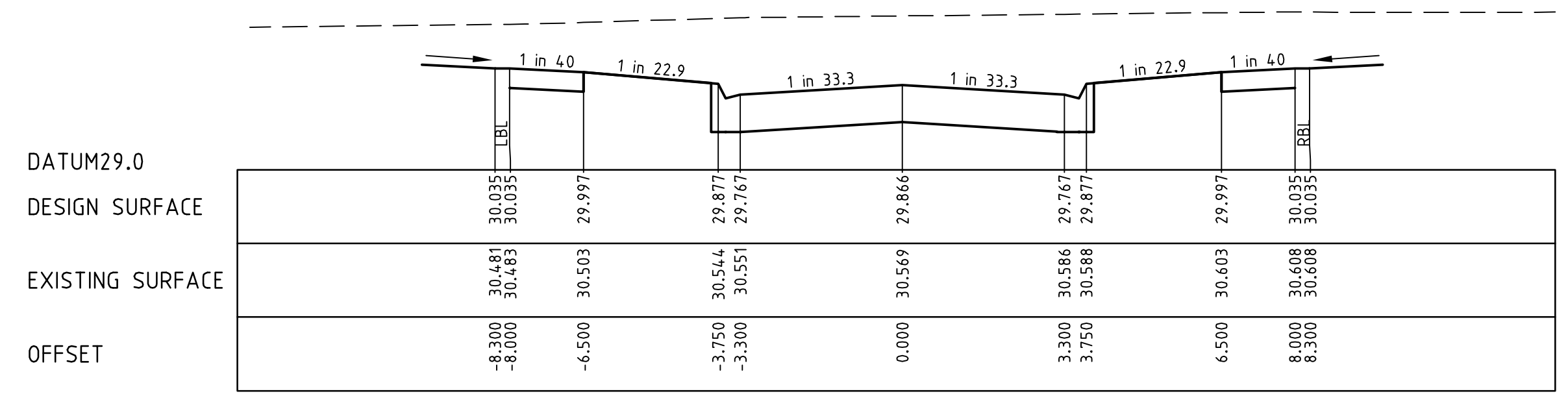
Rev B

Approved for Construction

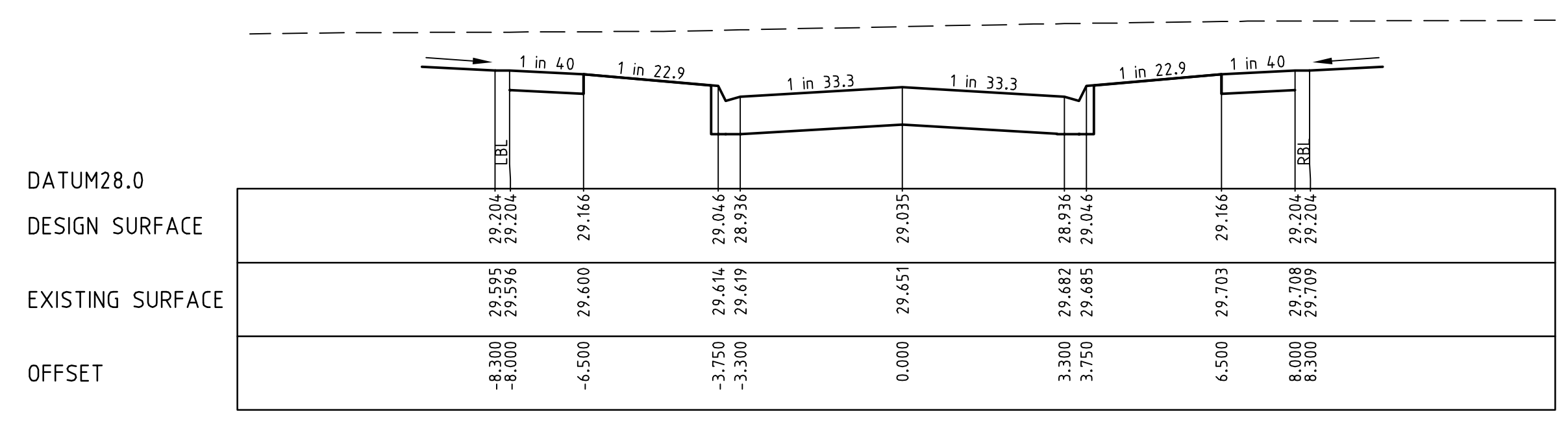
---	EXISTING SURFACE
—	DESIGN LINE
- - -	FUTURE DESIGN LINE



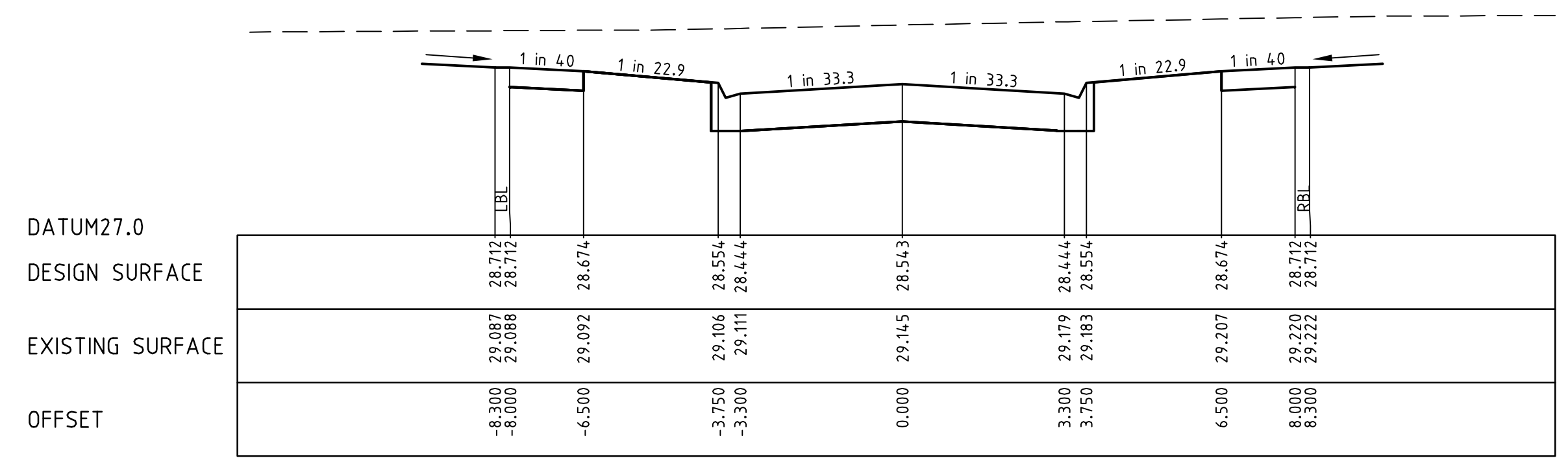
CH 496.087



CH 489.342



CH 476.842

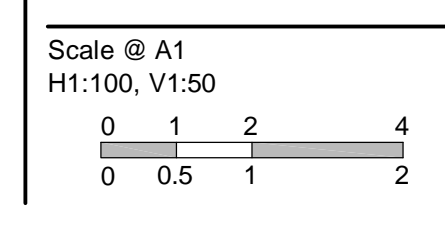


RTPCH 469.436

REVISION	DATE	DES/DF	APPD
B COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG

Principal
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Drawn
C. Barker
Checked
C. Birkett
Authorised
J. Golden
Date
April 2010

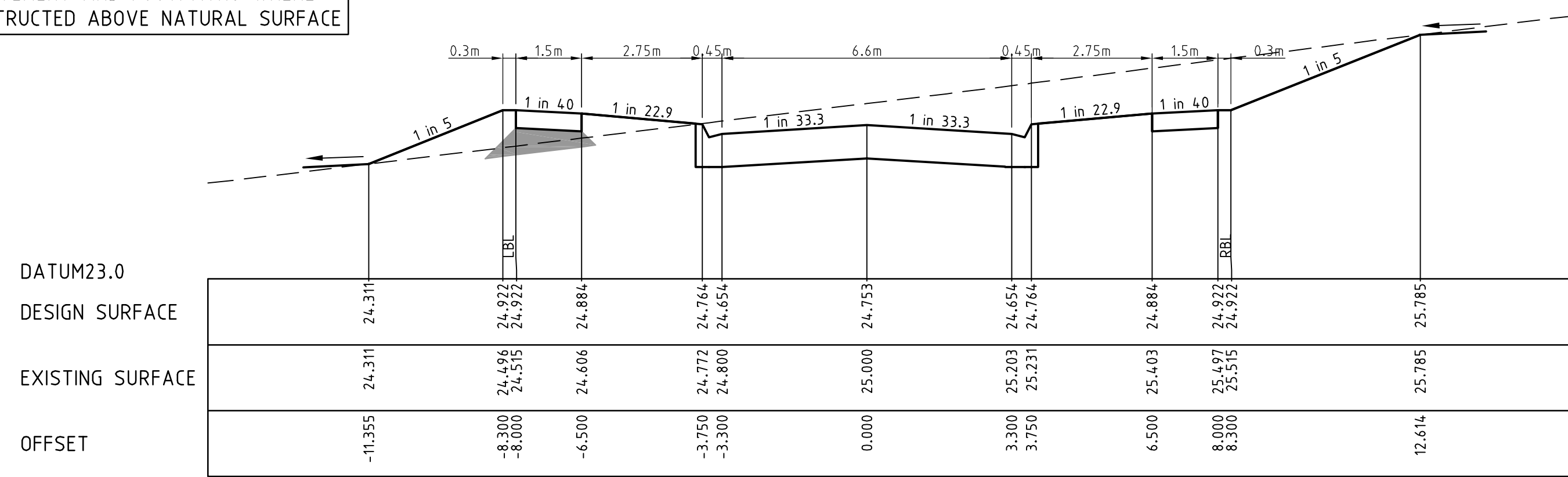


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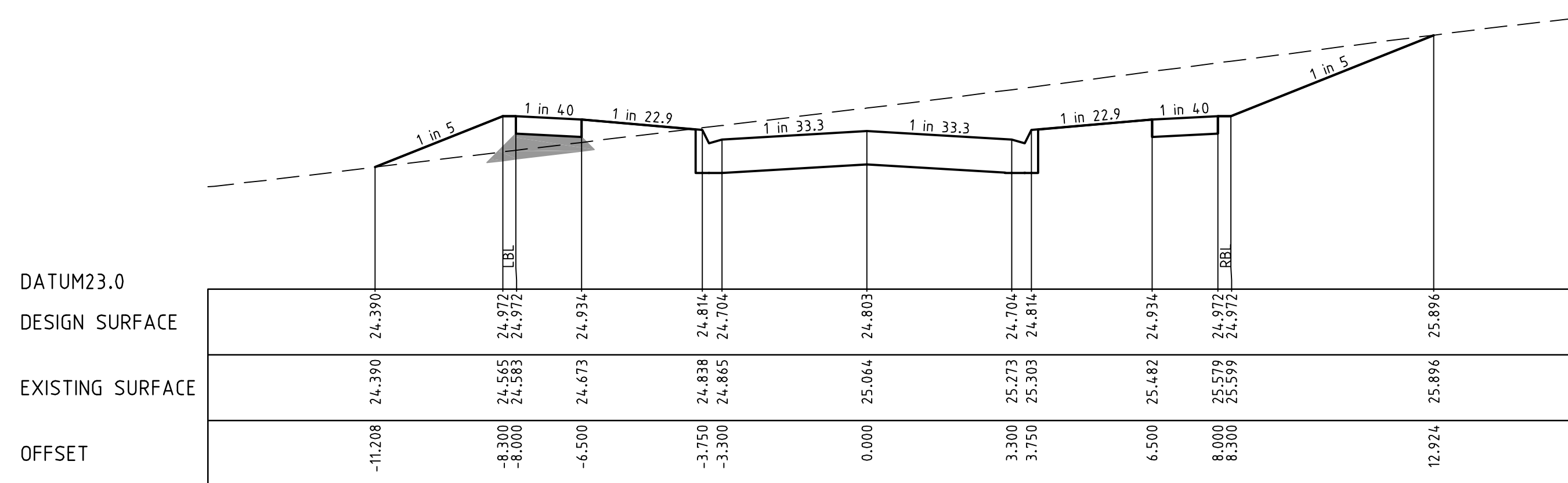
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Carlisle +61 2 6126 1900
Gold Coast +61 7 5578 0222
Melbourne +61 3 9869 0800
Taraillon +61 3 5173 0100

ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Cross Sections Hillclimb Drive - 3
CH469.436 - CH496.087
Drawing No. 0250EHL-03-17
Sheet No. 17 of 34
Rev B
Approved for Construction

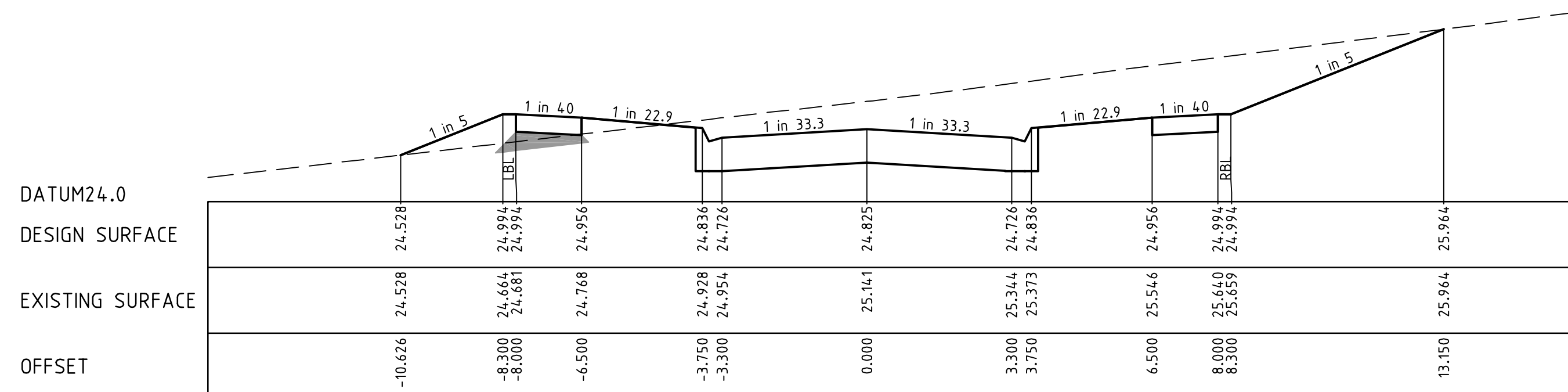
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE



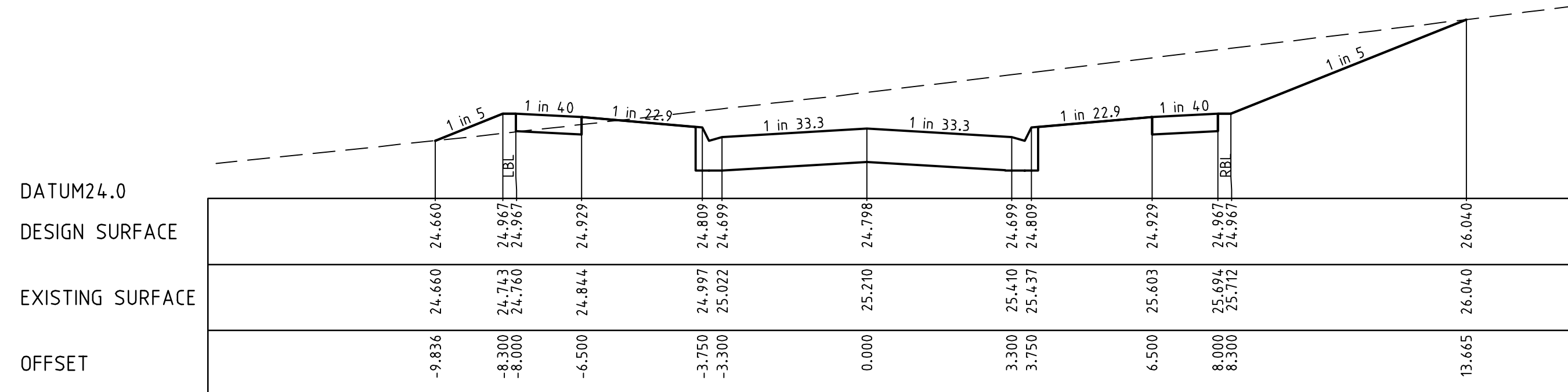
CH 40.838



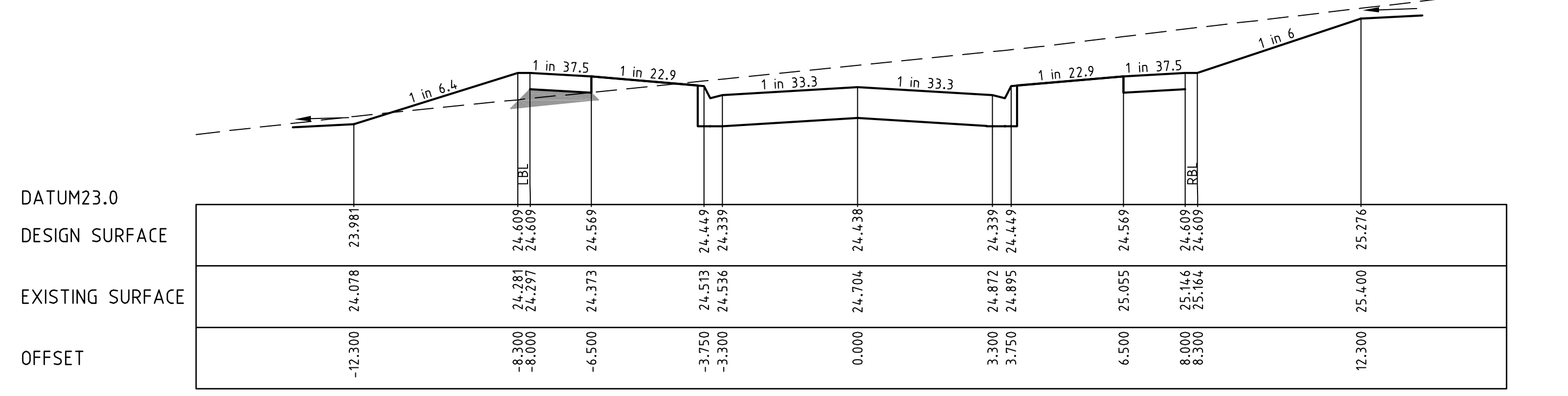
CH 33.437



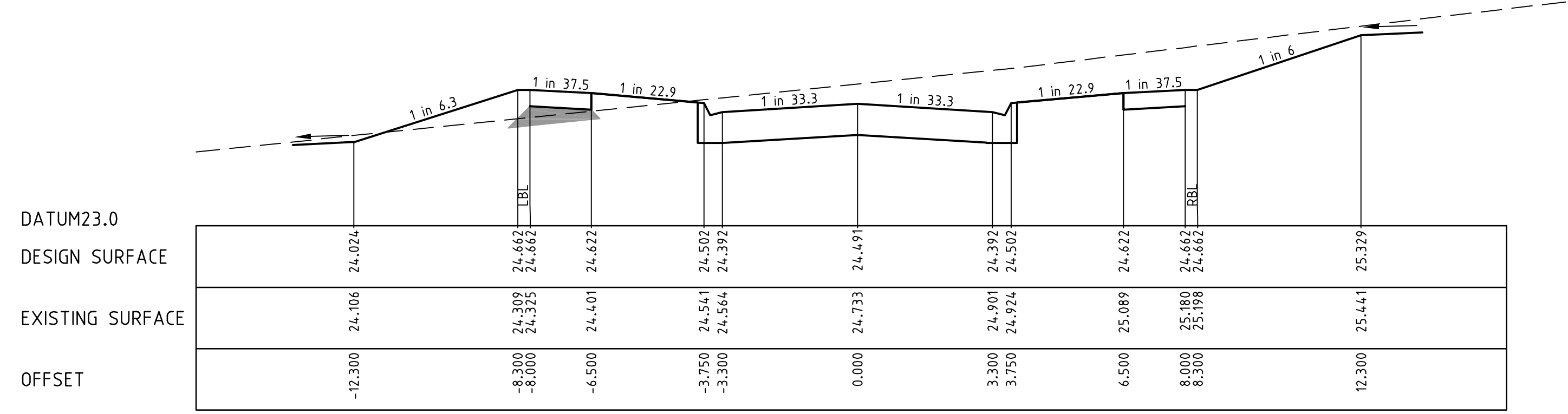
CH 24.213



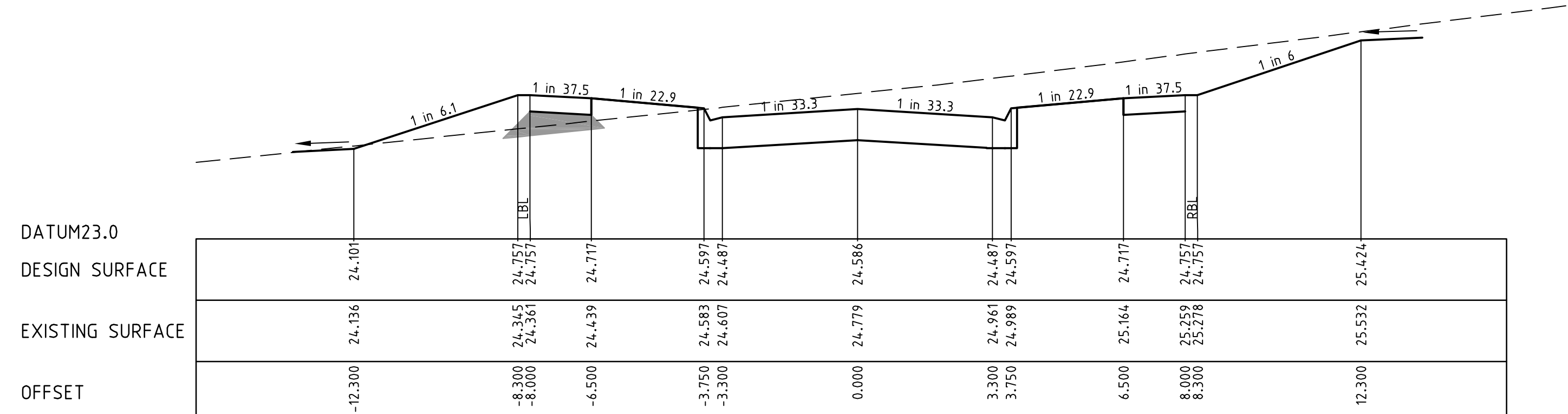
RTPCH 14.059



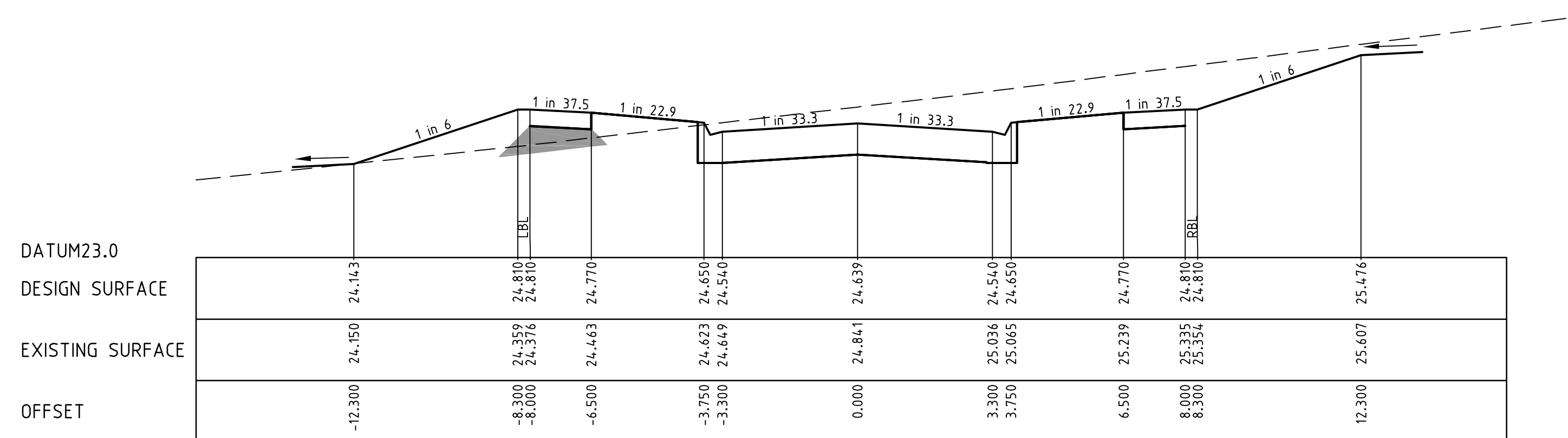
CH 71.057



CH 66.059



CH 57.057



CH 52.059

B	COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A	ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG
REVISION		DATE	DESIGN	APPD

Principal
Leopold Property Developments Pty Ltd
Level 1, 6 Riverside Quay
Southbank, Victoria 3006

LEGEND

- EXISTING SURFACE
- DESIGN LINE
- FUTURE DESIGN LINE

Designed
C. Barker
Drawn
C. Barker
Checked
C. Birkett
Authorised
J. Golden
Date
April 2010

Scale @ A1
H1:100, V1:50

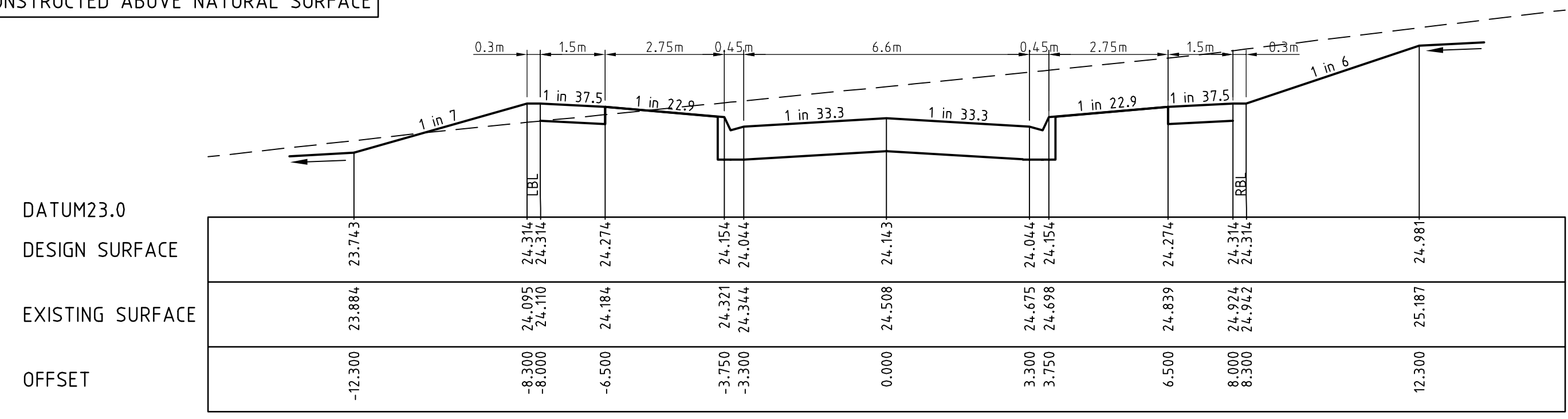
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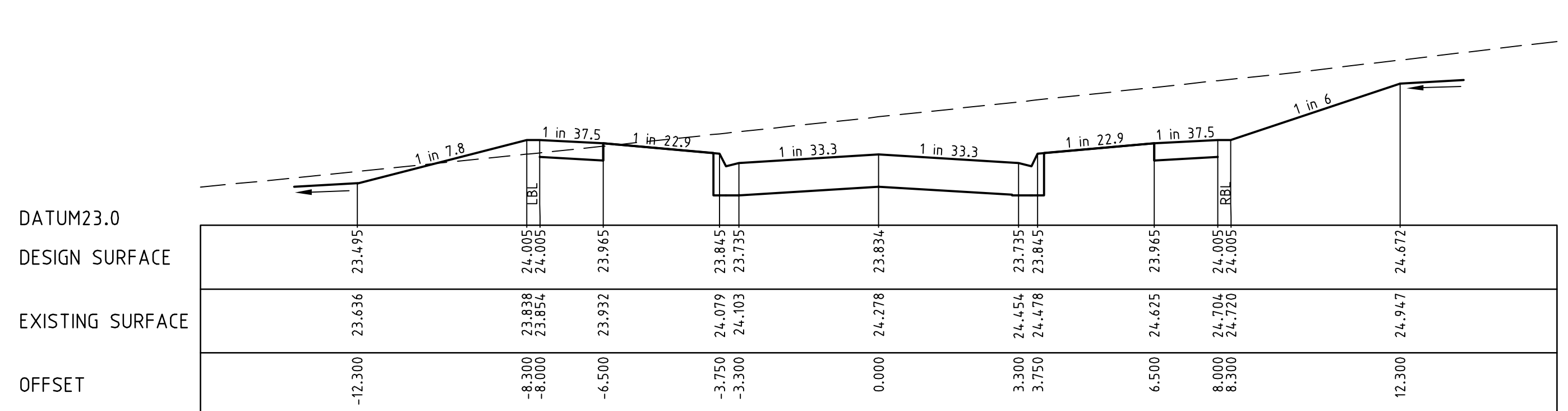
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ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Cross Sections Kombi Road - 1
CH14.059 - CH71.057
Drawing No. 0250EHL-03-19 Rev B
Sheet No. 19 of 34
Approved for Construction

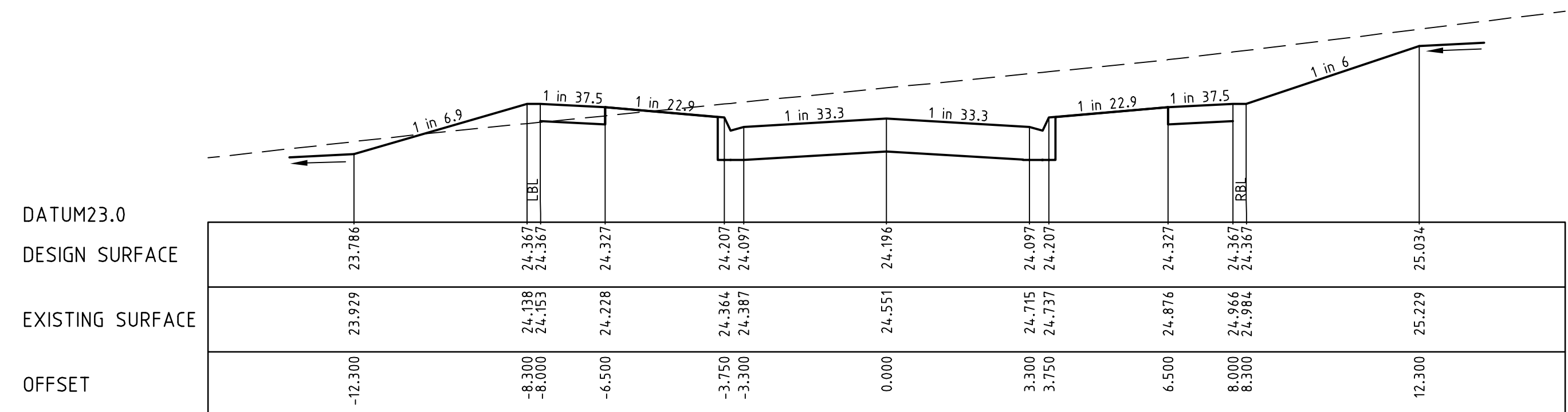
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE



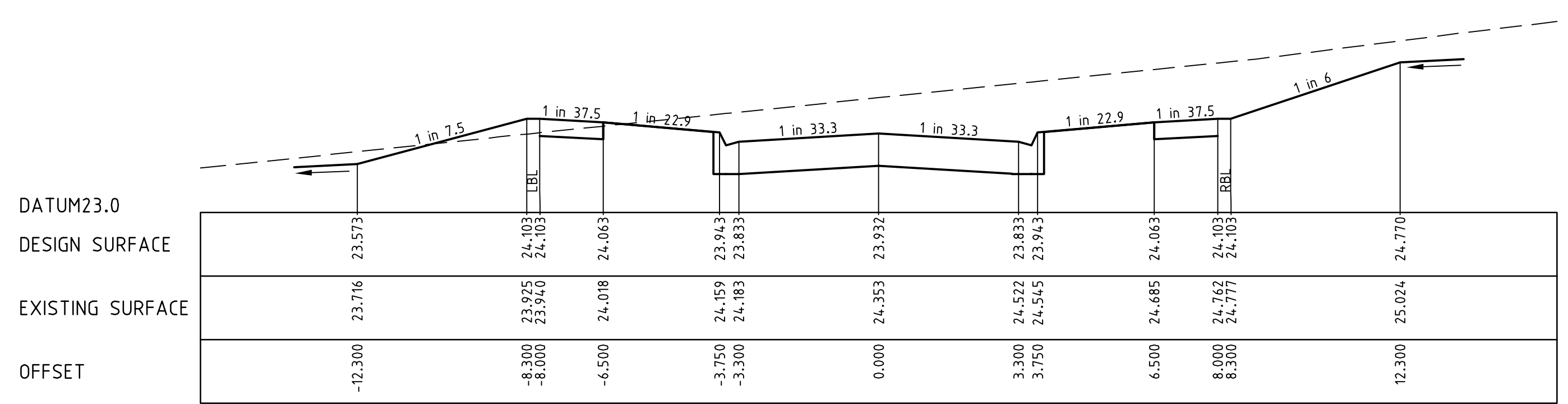
CH 99.057



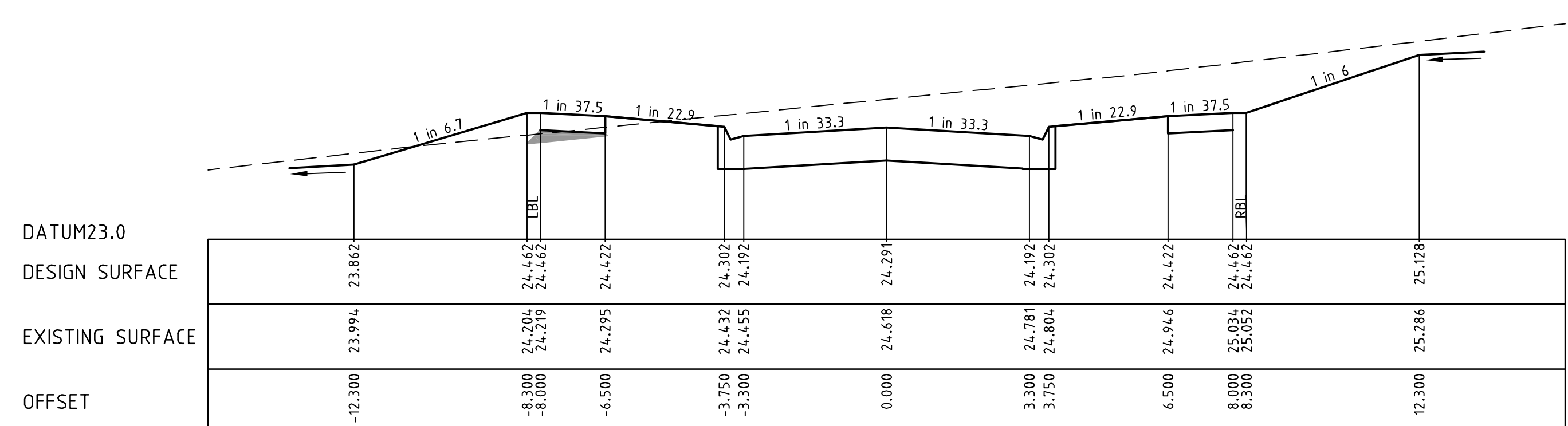
CH 129.057



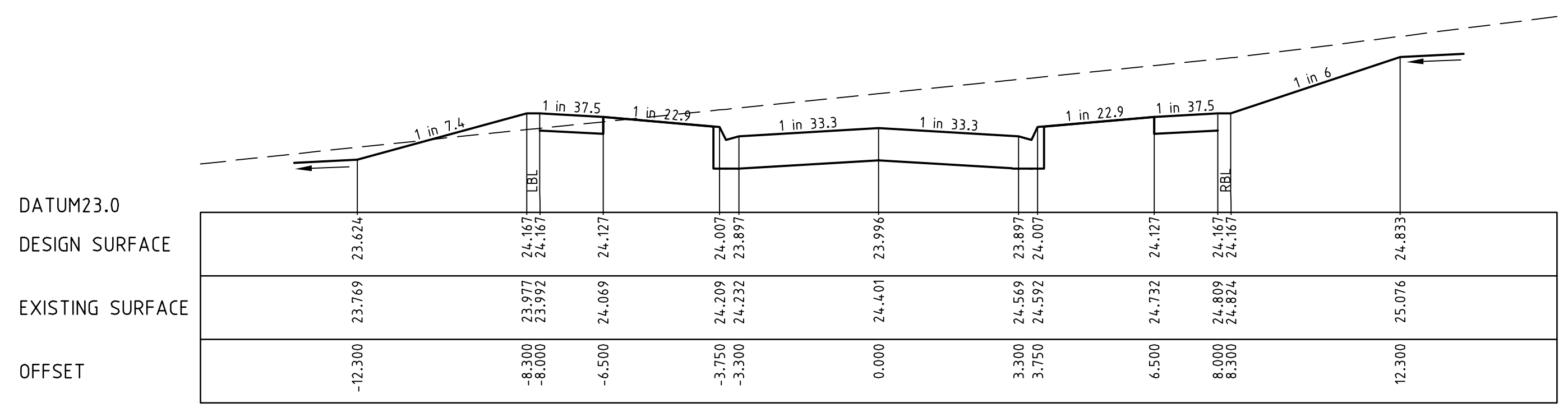
CH 94.059



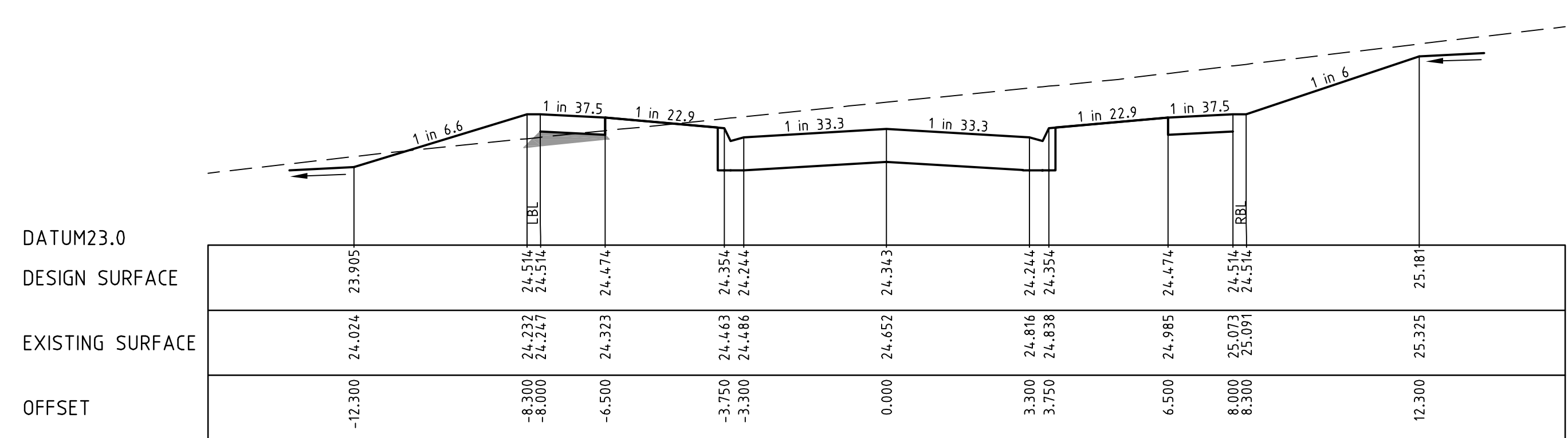
CH 119.059



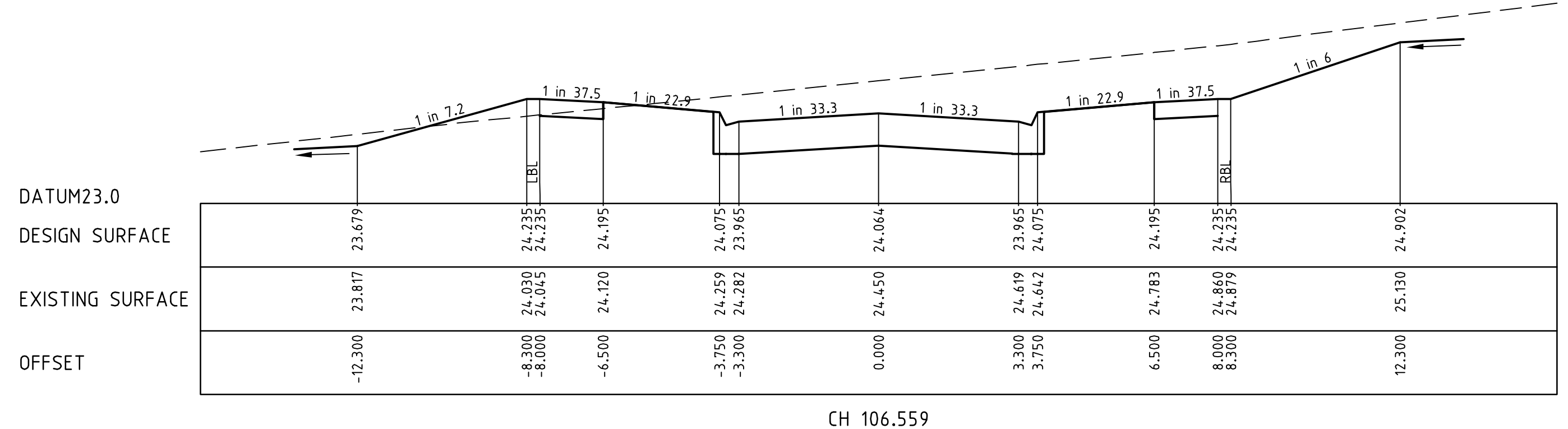
CH 85.057



CH 113.057



CH 80.059



CH 106.559

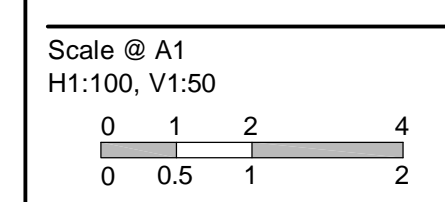
REVISION	DATE	DES/DT	APPD
B COUNCIL AMENDMENTS	14.07.10	CB/JG	JG
A ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG

Principal
Leopold Property Developments Pty Ltd
Level 1, 6 Riverside Quay
Southbank, Victoria 3006

LEGEND

- EXISTING SURFACE
- DESIGN LINE
- FUTURE DESIGN LINE

Designed
C. Barker
Drawn
C. Barker
Checked
C. Birkett
Authorised
J. Golden
Date
April 2010



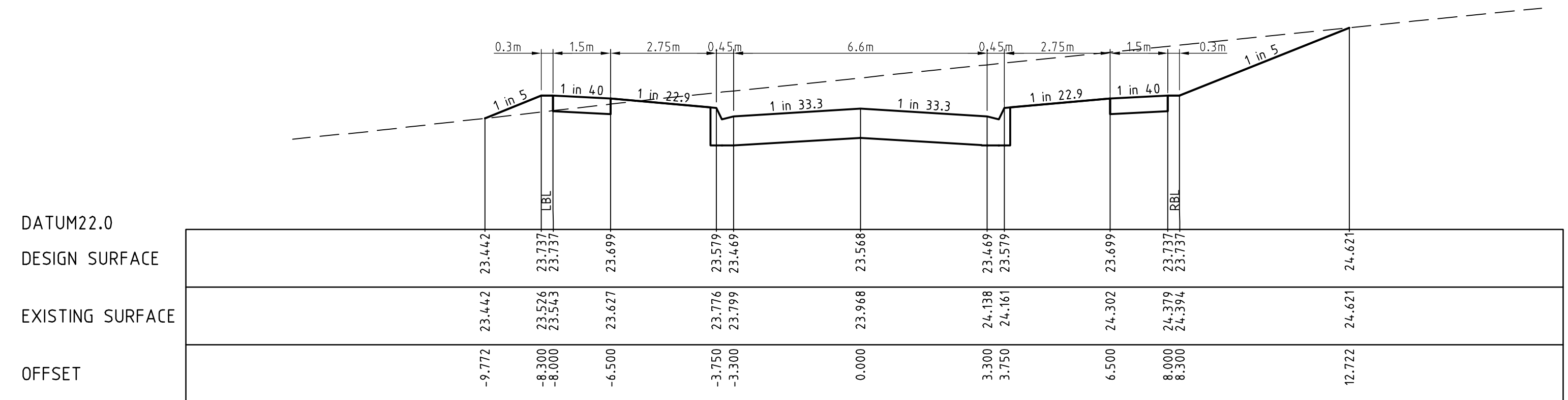
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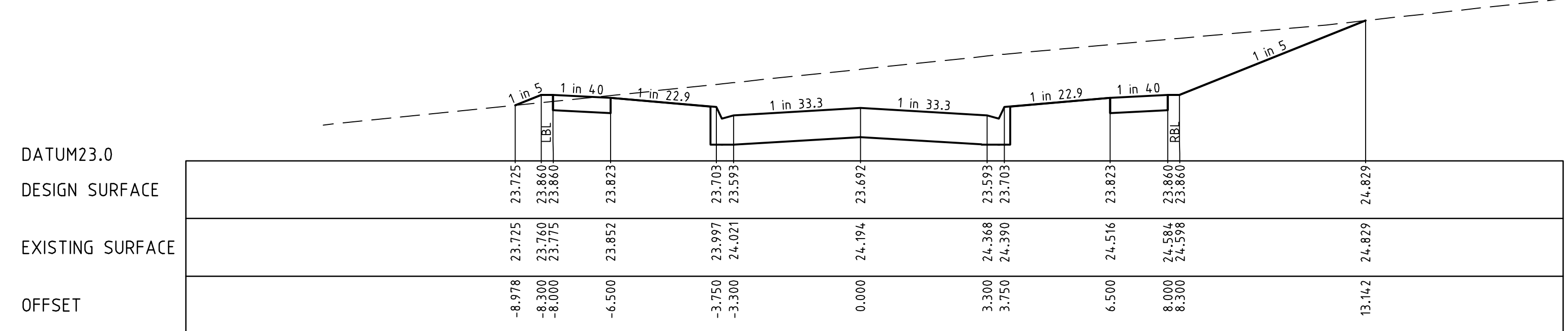
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Gold Coast +61 7 5578 0222
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Tarragon +61 3 5173 0100

ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Cross Sections Kombi Road - 2
CH80.059 - CH129.057
Drawing No. 0250EHL-03-20 **Rev B**
Sheet No. 20 of 34
Approved for Construction

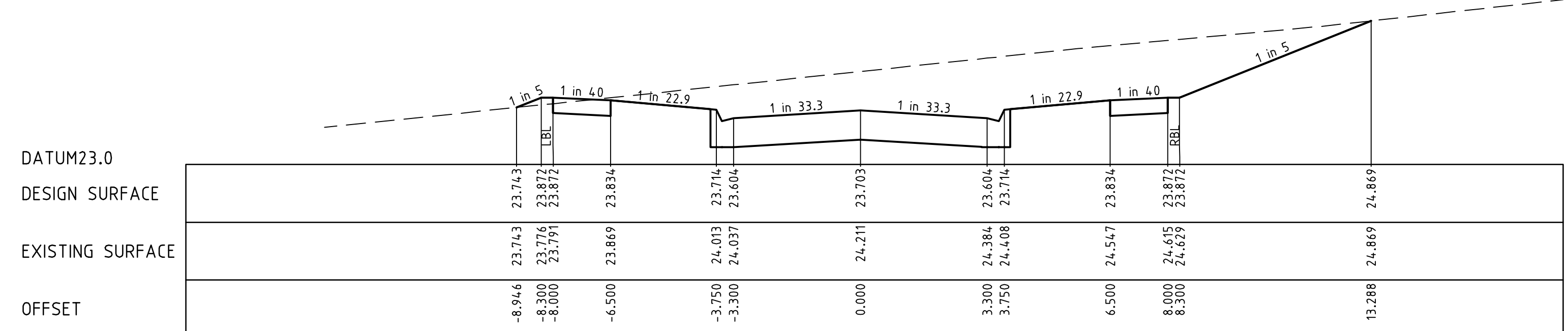
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---	DESIGN LINE
---	FUTURE DESIGN LINE



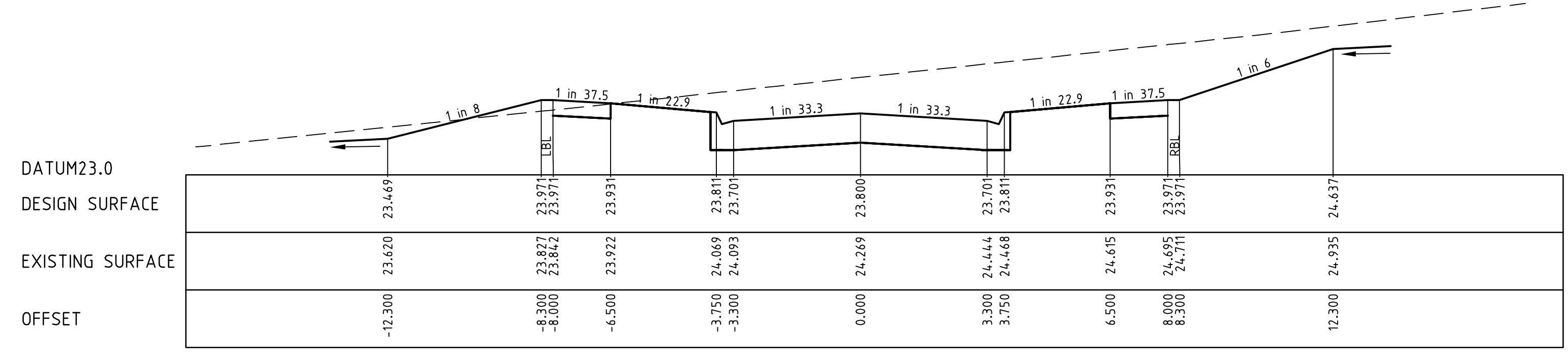
RTPCH 173.747



CH 149.144



CH 147.057



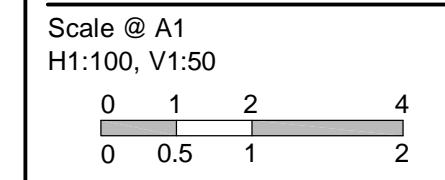
CH 133.059

REVISION	DATE	DES/DF	APPD
B COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG



Principal
Leopold Property Developments Pty Ltd
Level 1, 6 Riverside Quay
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Designed
C. Barker
Drawn
C. Barker
Checked
C. Birkett
Authorised
J. Golden
Date
April 2010



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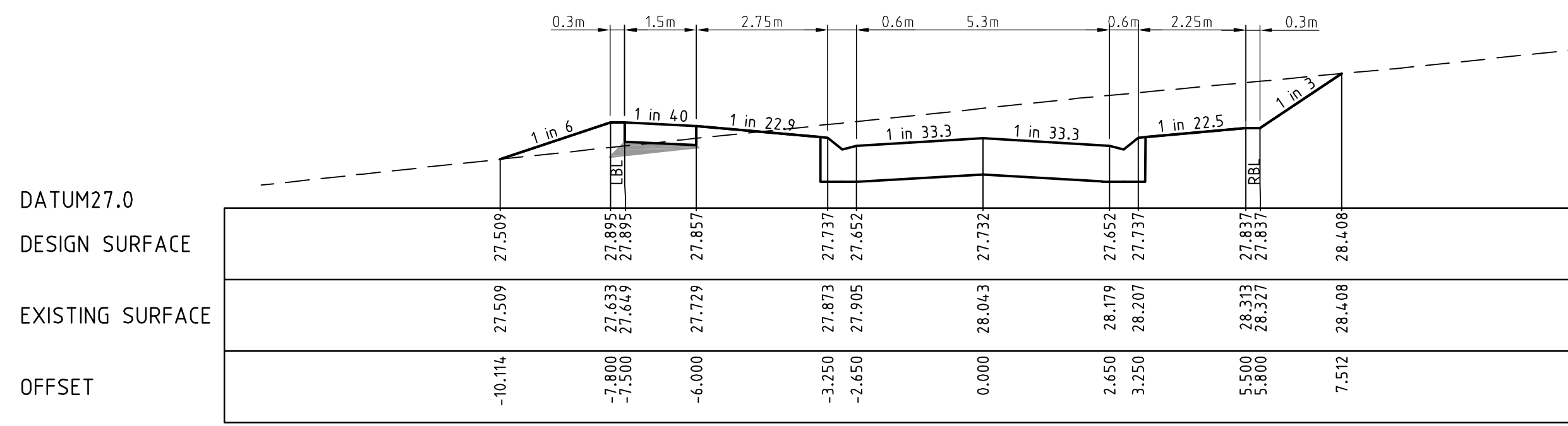
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Brisbane +61 7 3831 8988 Melbourne +61 3 9869 0800
Canberra +61 2 6126 1900 Tarragona +61 3 5173 0100

ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Cross Sections Kombi Road - 3
CH133.059 - CH173.747
Drawing No. 0250EHL-03-21 **Rev B**
Sheet No. 21 of 34

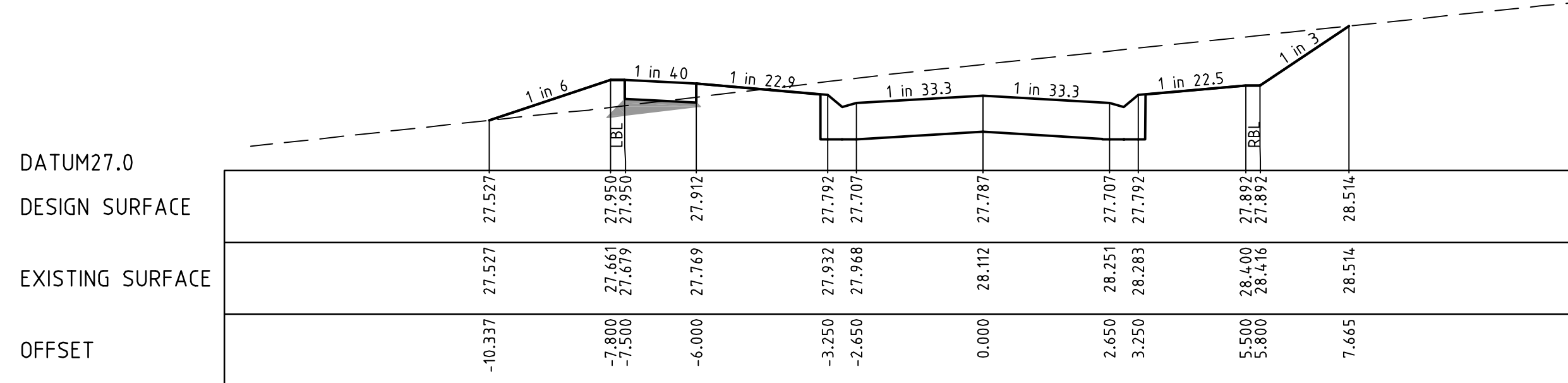
Approved for Construction

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

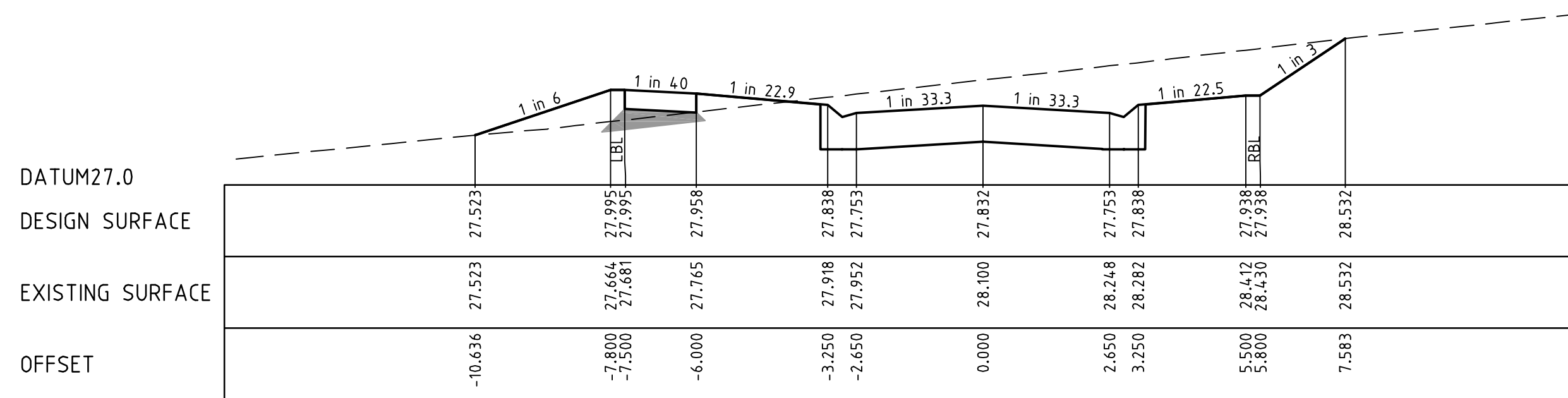
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 --- EXISTING SURFACE
 ——— DESIGN LINE
 - - - FUTURE DESIGN LINE



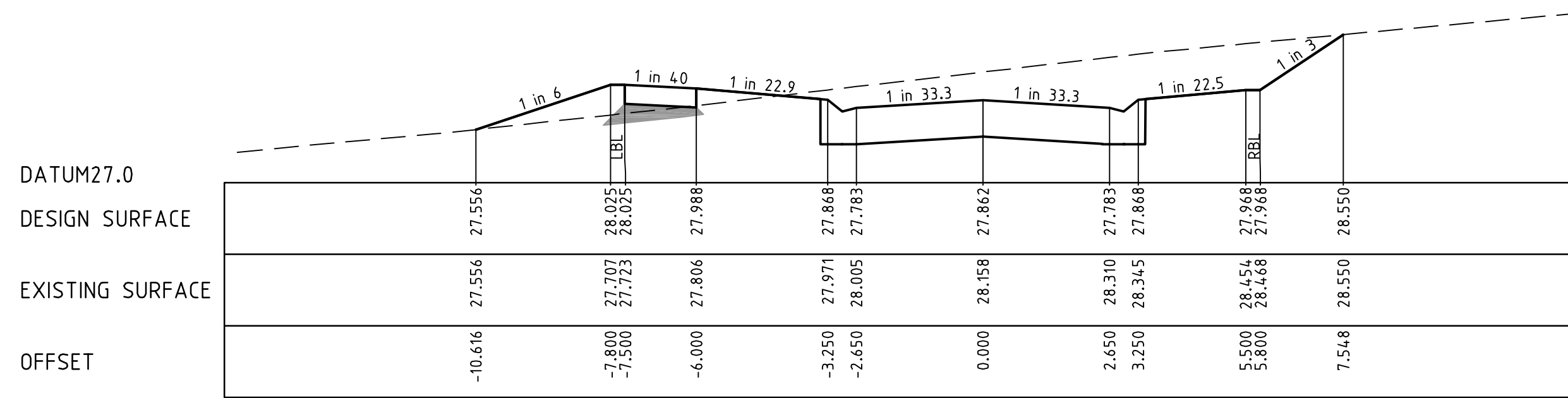
CH 140.000



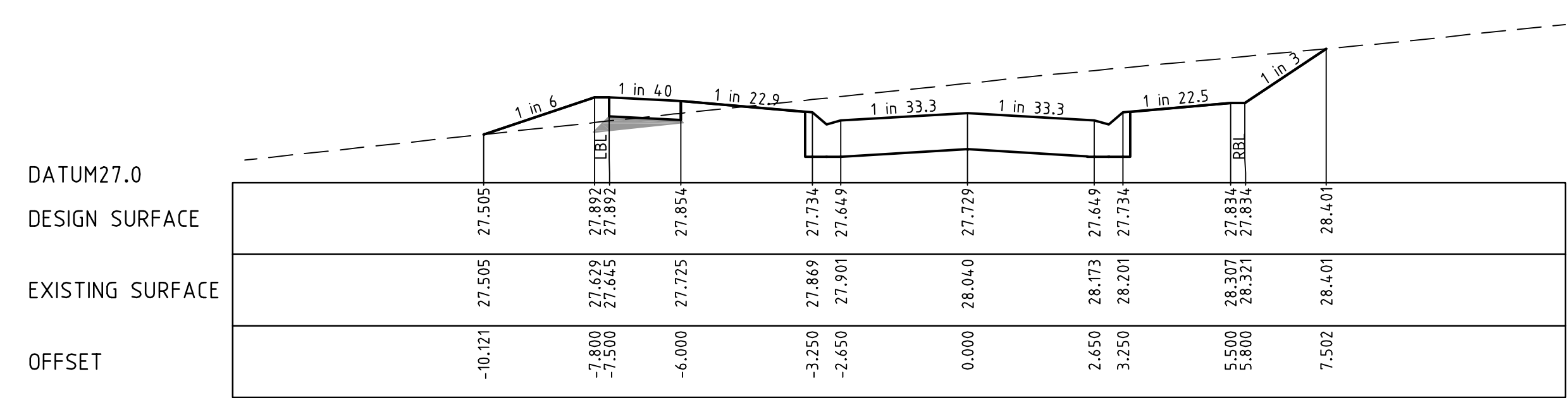
CH 129.053



CH 120.000



CH 114.040



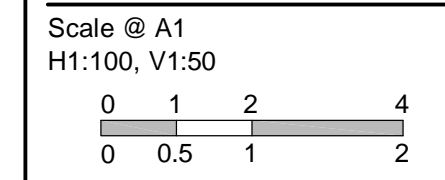
RTPCH 140.588

REVISION	DATE	DES/DF	APPD
B COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG



Principal
 Leopold Property Developments Pty Ltd
 Level 1, 6 Riverside Quay
 Southbank, Victoria 3006

Designed
 C. Barker
 Drawn
 C. Barker
 Checked
 C. Birkett
 Authorised
 J. Golden
 Date
 April 2010



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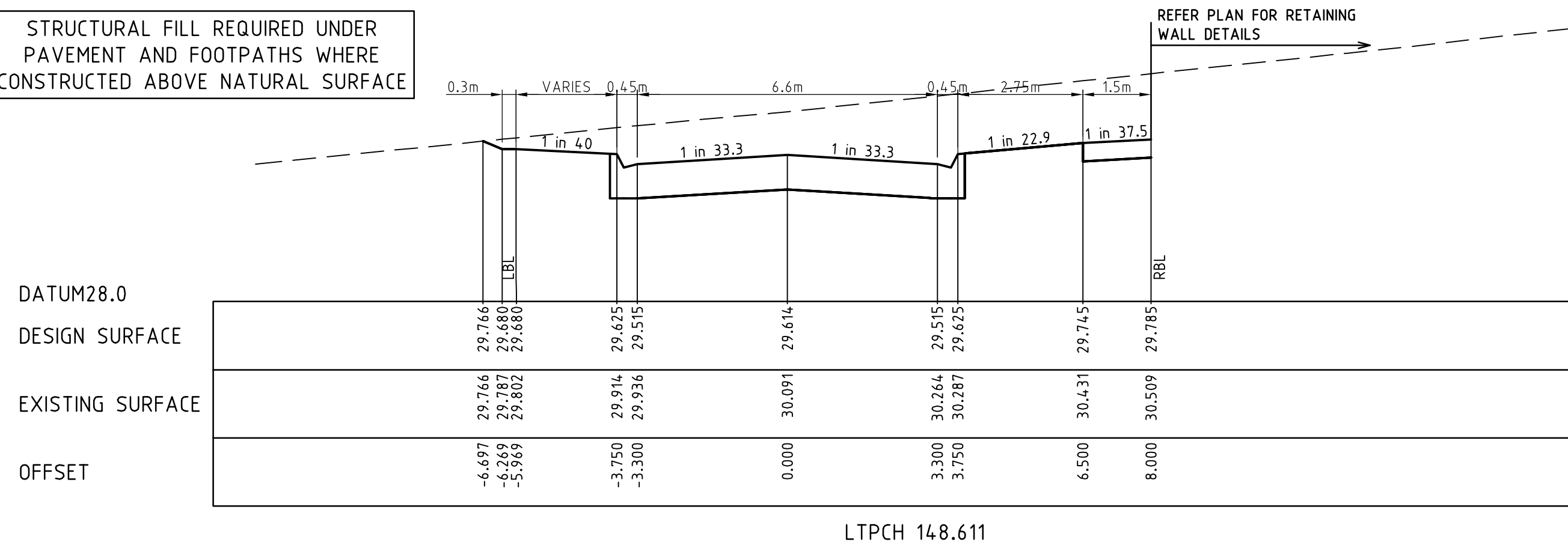
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ESTUARY
 Stage 3
 City Of Greater Geelong
 Roadworks and Drainage
 Cross Sections 11a Drive

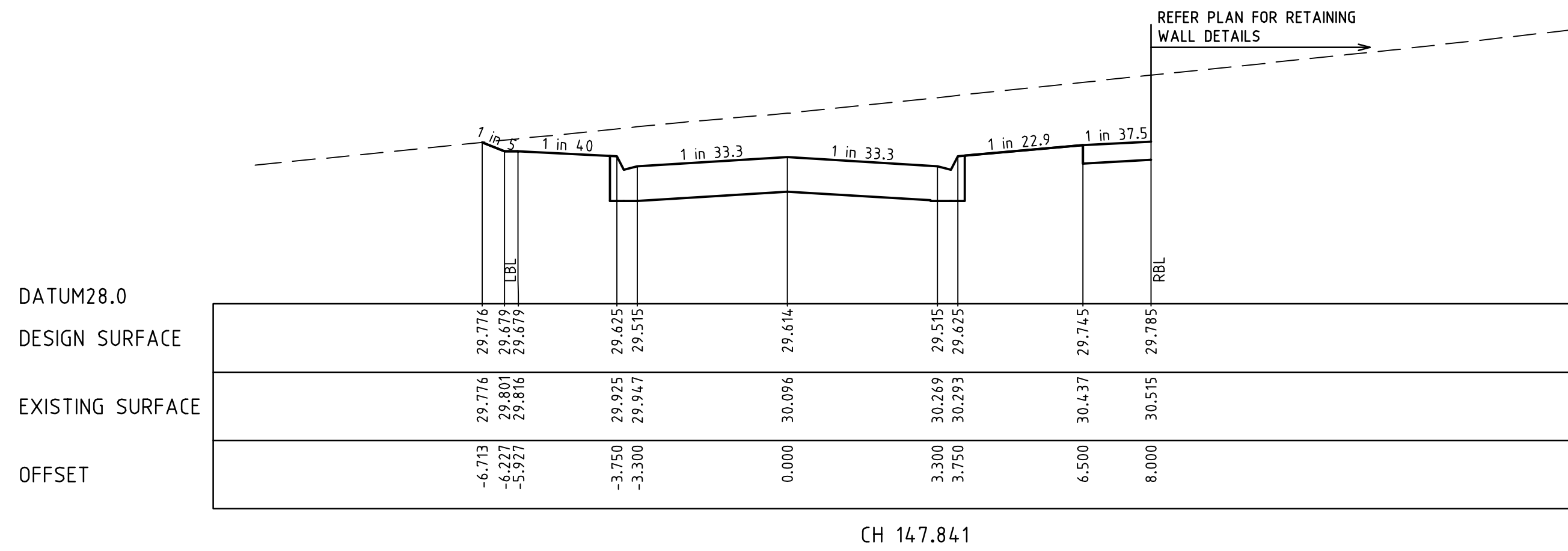
Drawing No. 0250EHL-03-22 Rev B
 Sheet No. 22 of 34

Approved for Construction

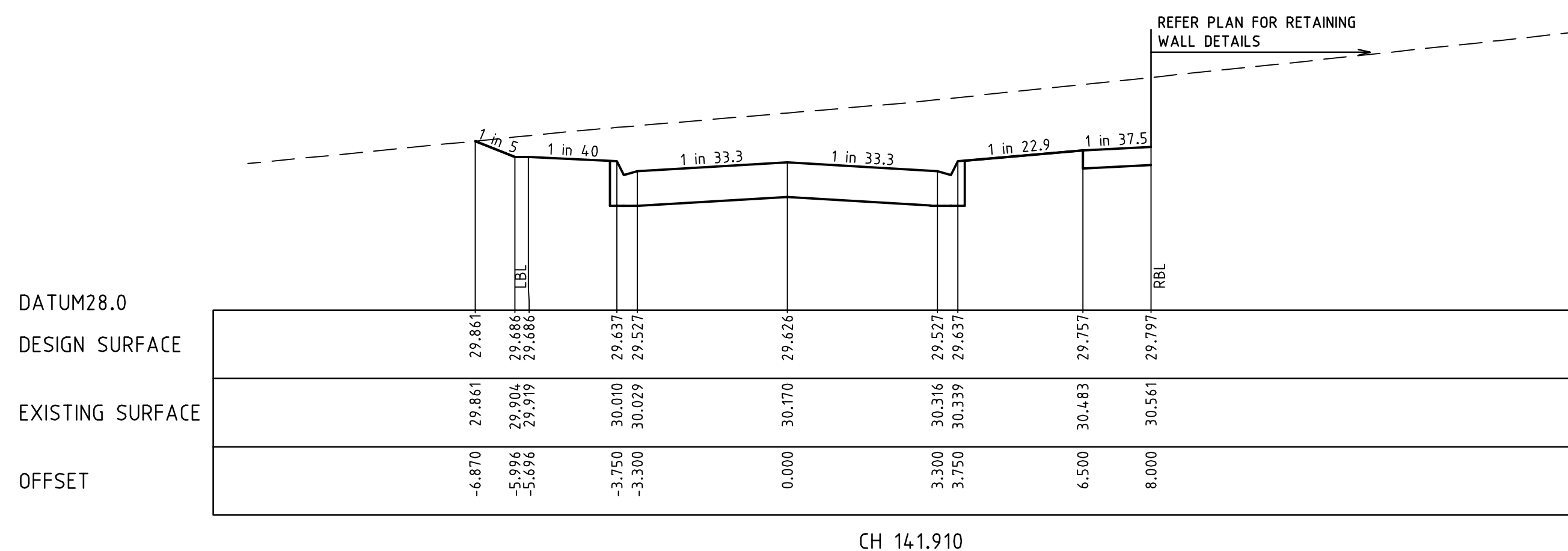
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE



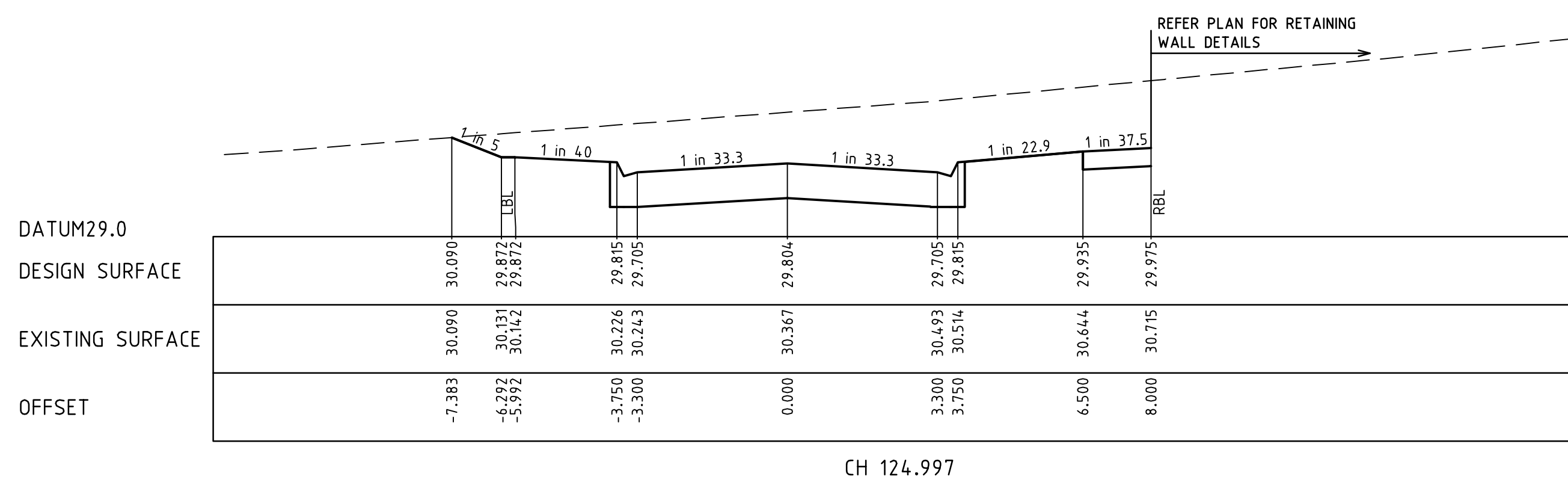
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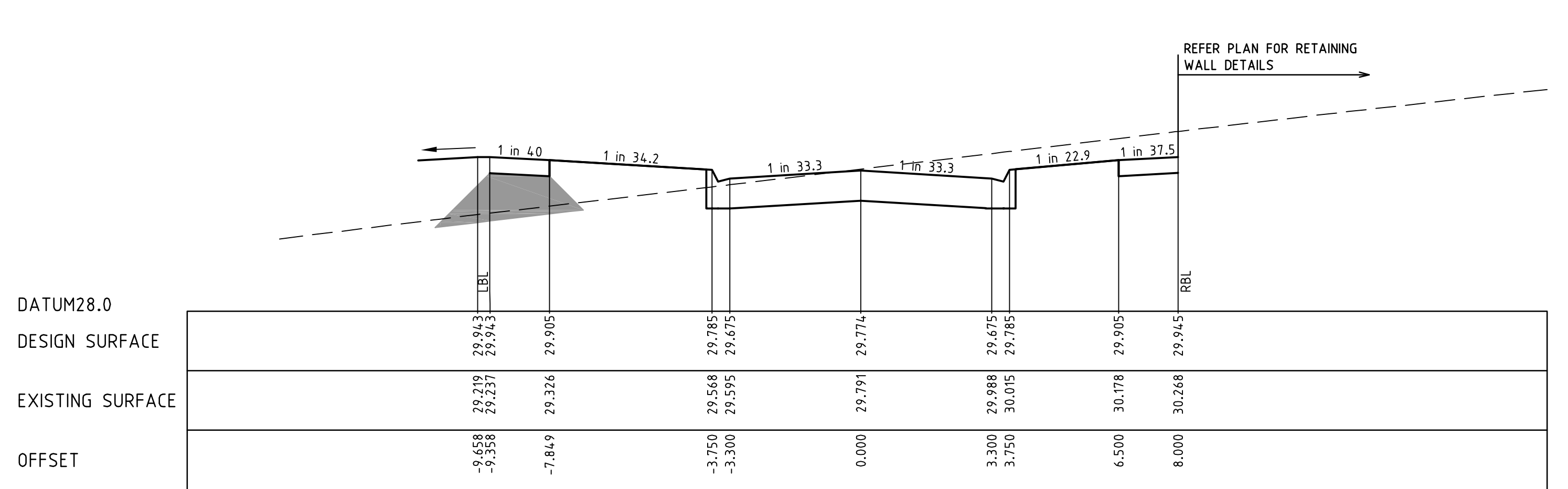
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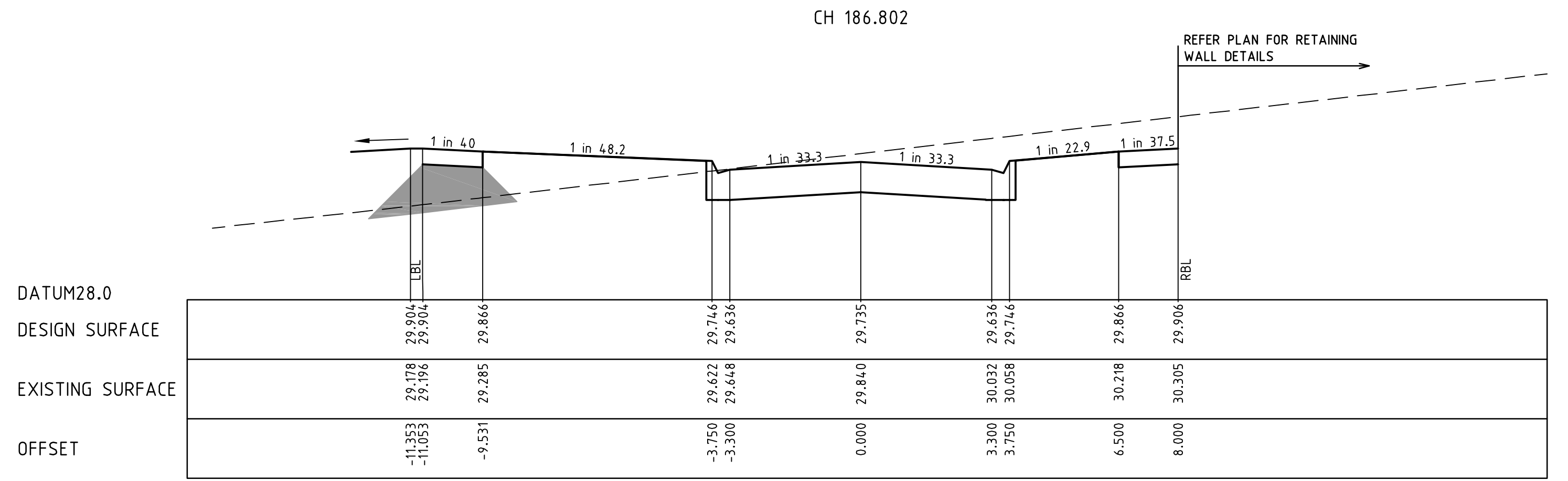
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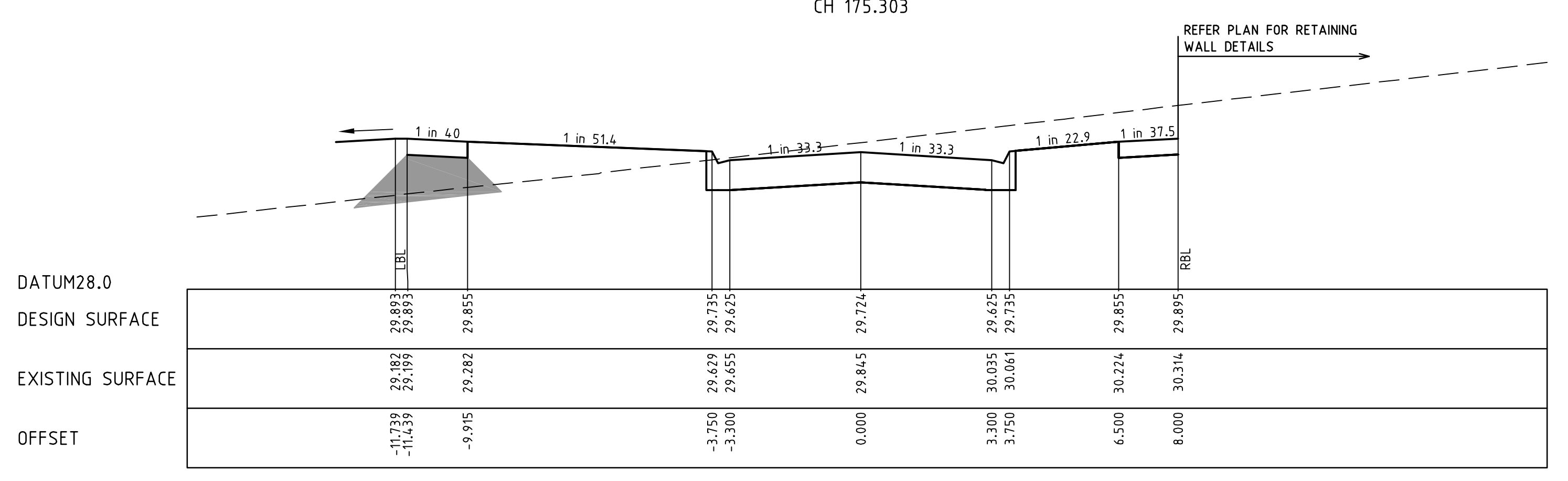
CH 124.997



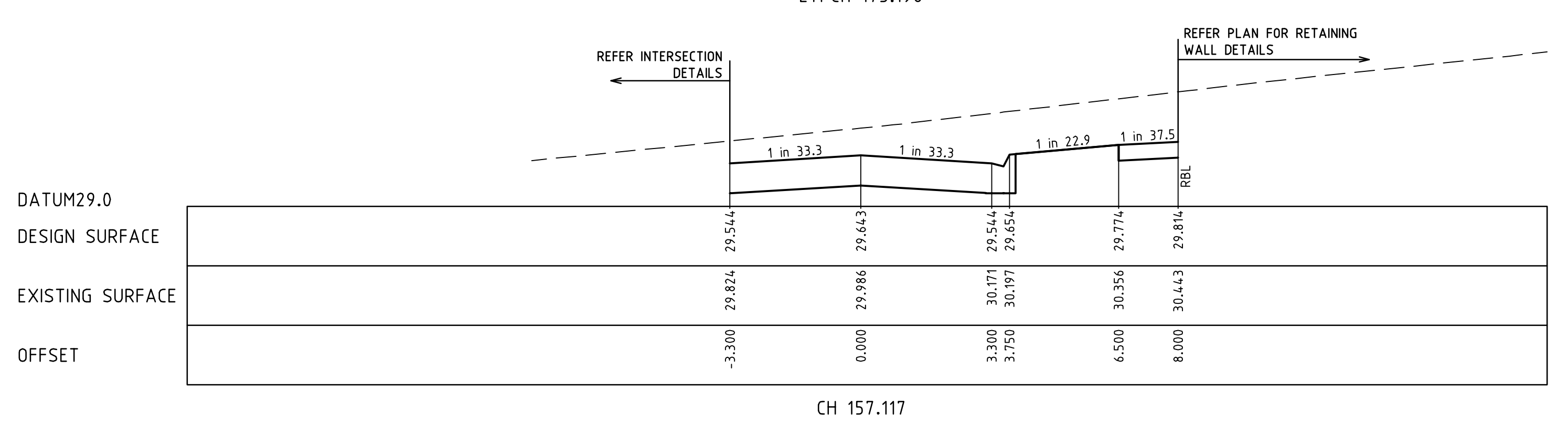
CH 186.802



CH 175.303



LTPCH 173.196



CH 157.117

REVISION	DATE	DES/DF	APPD
C	19.08.10	CB/CB	JG
B	14.07.10	CB/CB	JG
A	18.05.10	CB/CB	JG

Principal
Leopold Property Developments Pty Ltd
Level 1, 6 Riverside Quay
Southbank, Victoria 3006

LEGEND

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

Designed
C. Barker
Drawn
C. Barker
Checked
C. Birkett
Authorised
J. Golden
Date
April 2010

Scale @ A1
H1:100, V1:50

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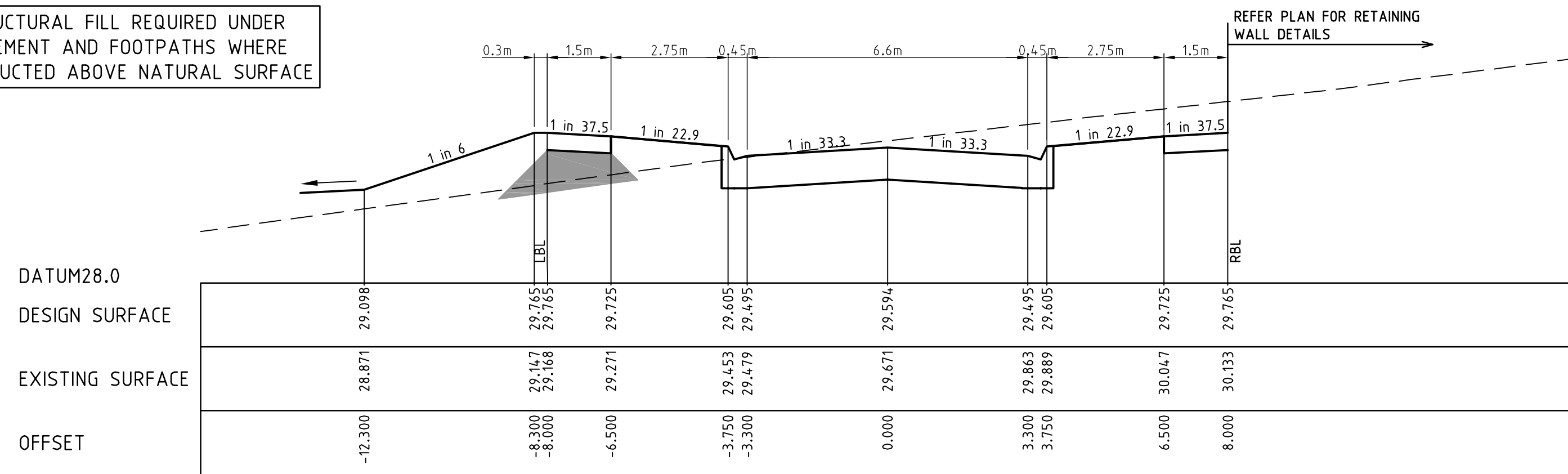
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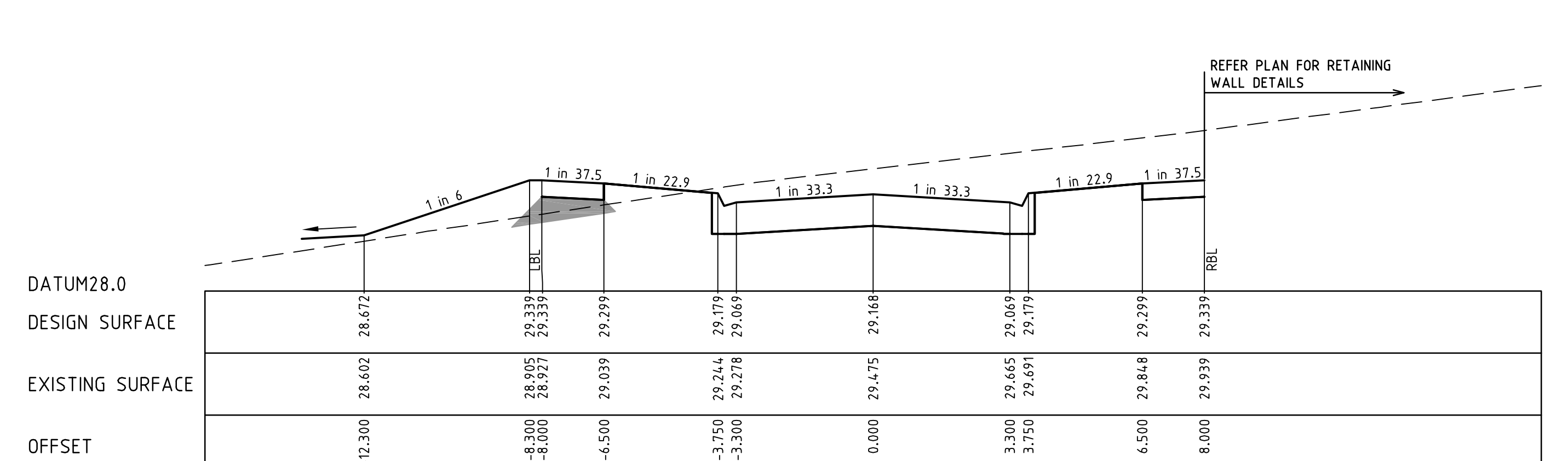
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ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Cross Sections Fairvista Avenue - 1
CH125.000 - CH186.802
Drawing No. 0250EHL-03-23 **Rev C**
Sheet No. 23 of 34
Approved for Construction

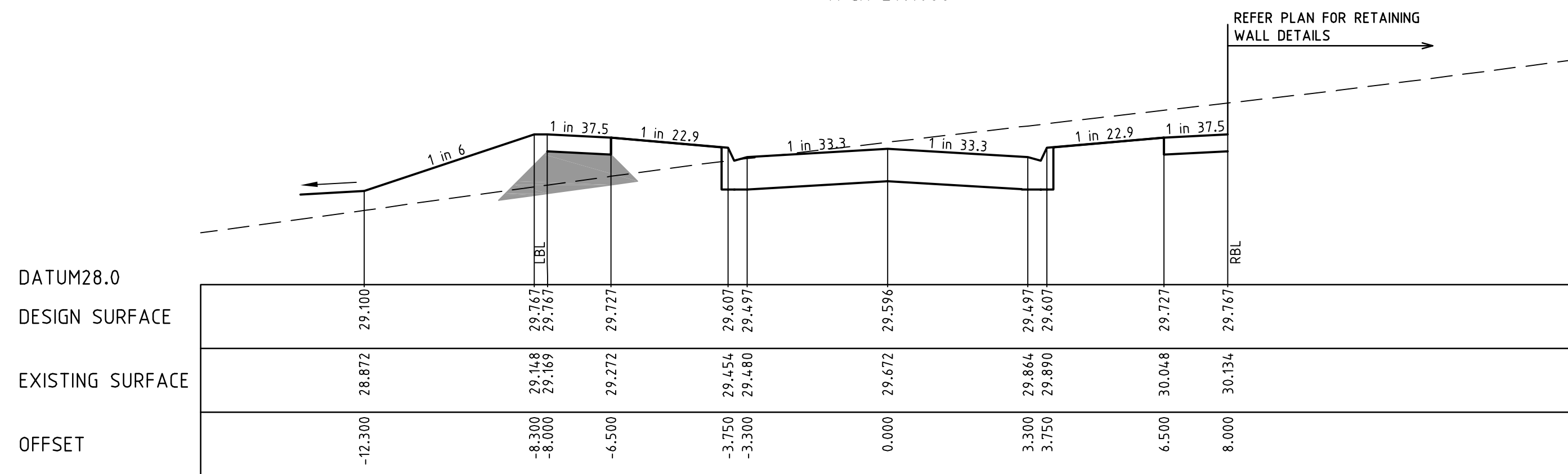
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE



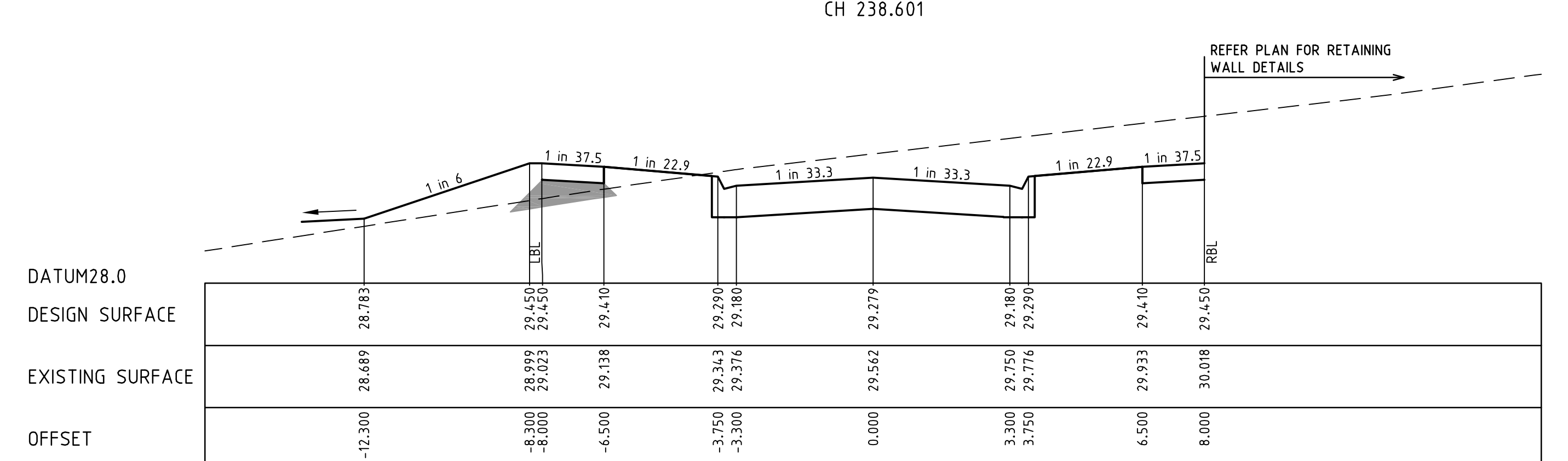
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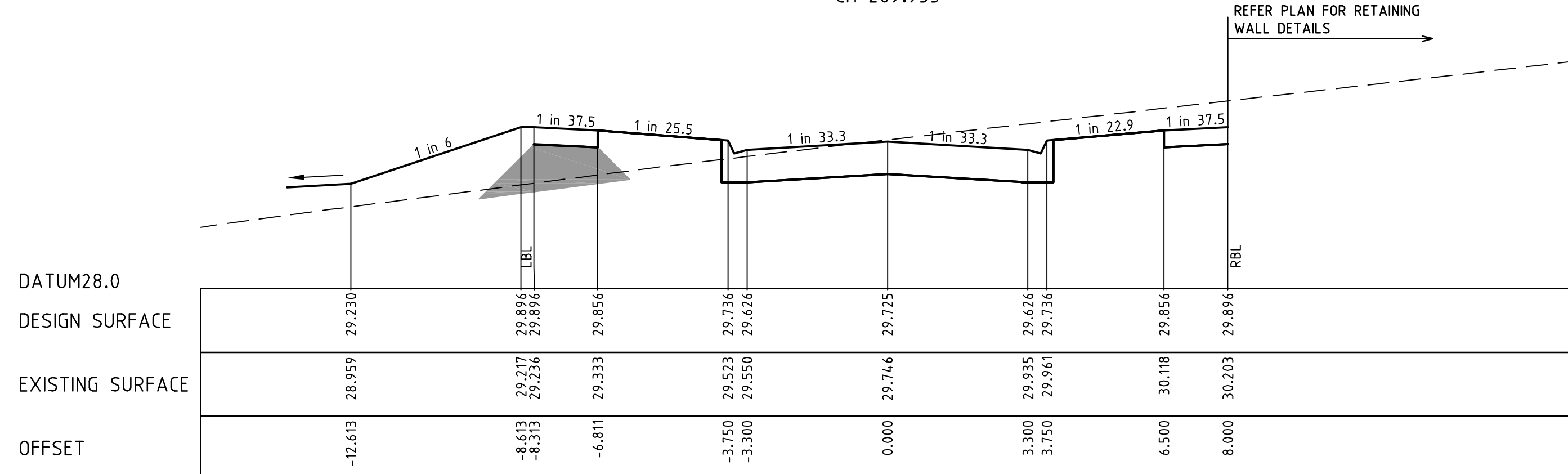
CH 238.601



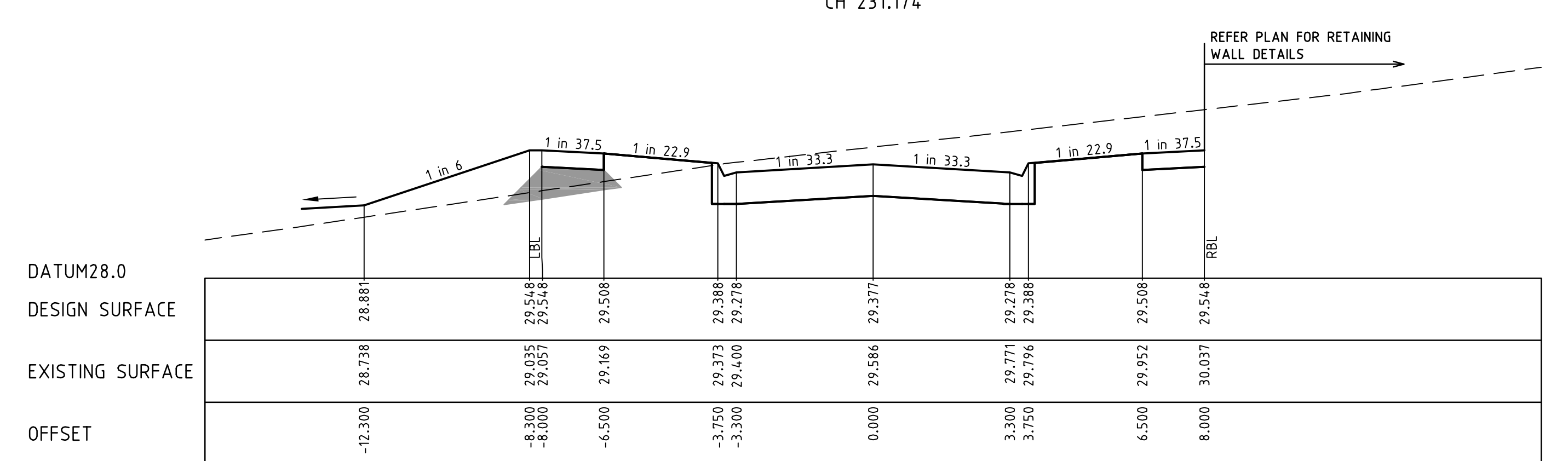
CH 209.935



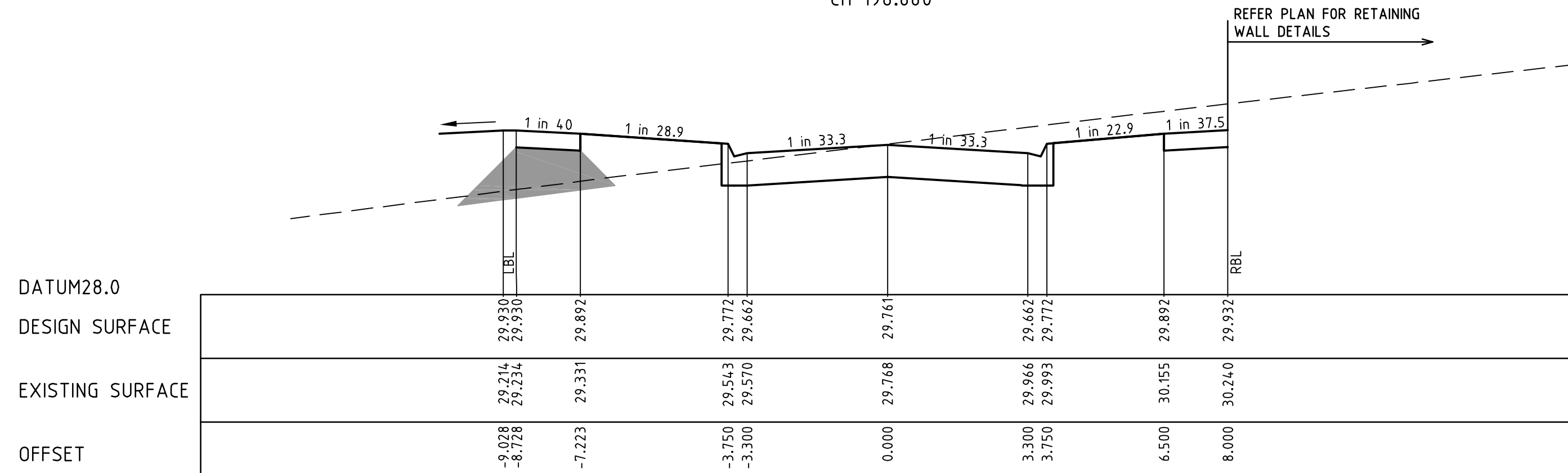
CH 231.174



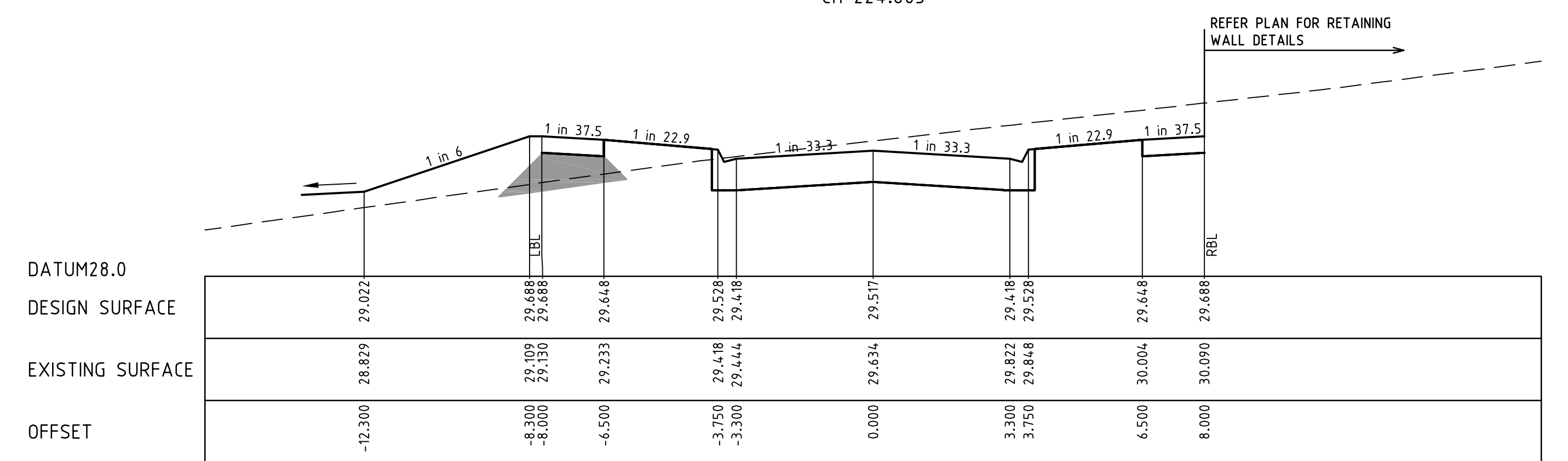
CH 198.880



CH 224.603

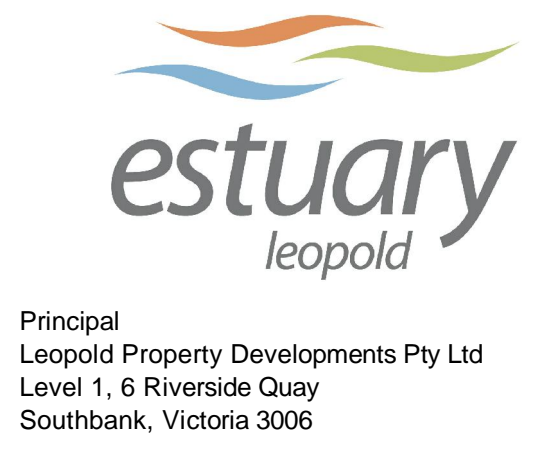


CH 193.019



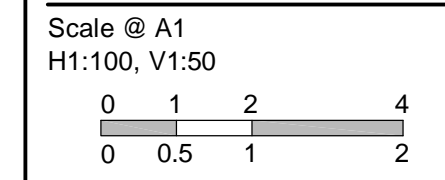
CH 215.174

REVISION	DATE	DESIGN	APPD
C	19.08.10	CB/CB	JG
B	14.07.10	CB/CB	JG
A	18.05.10	CB/CB	JG



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

Designed
C. Barker
Drawn
C. Barker
Checked
C. Birkett
Authorised
J. Golden
Date
April 2010



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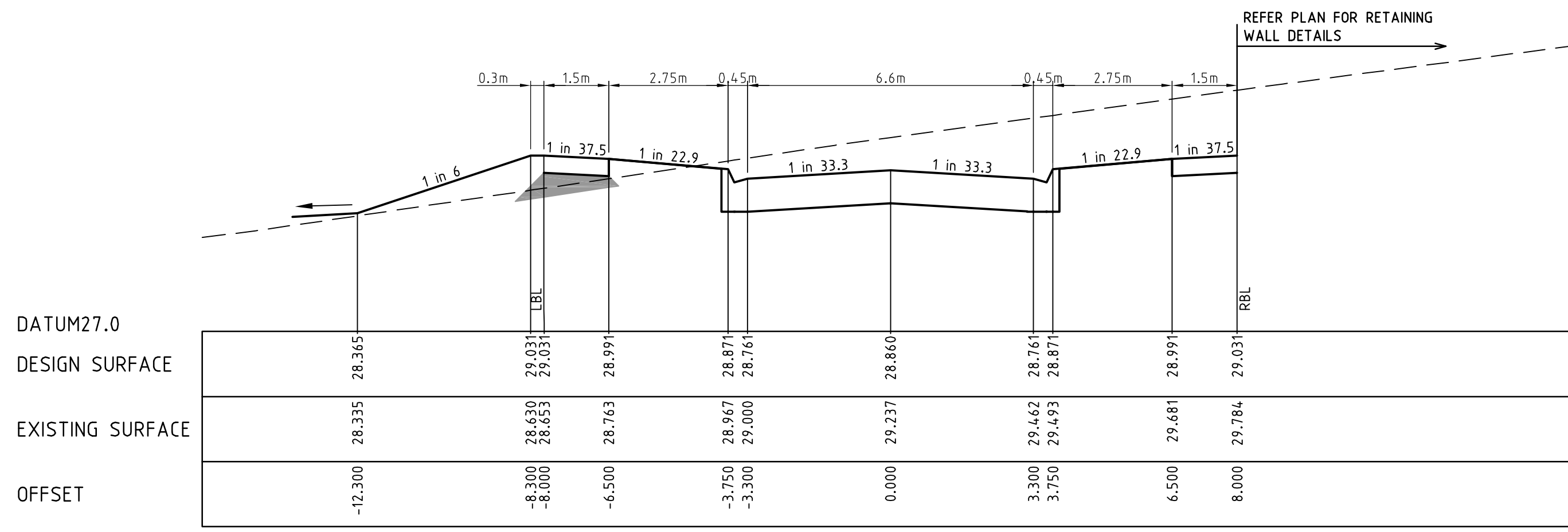
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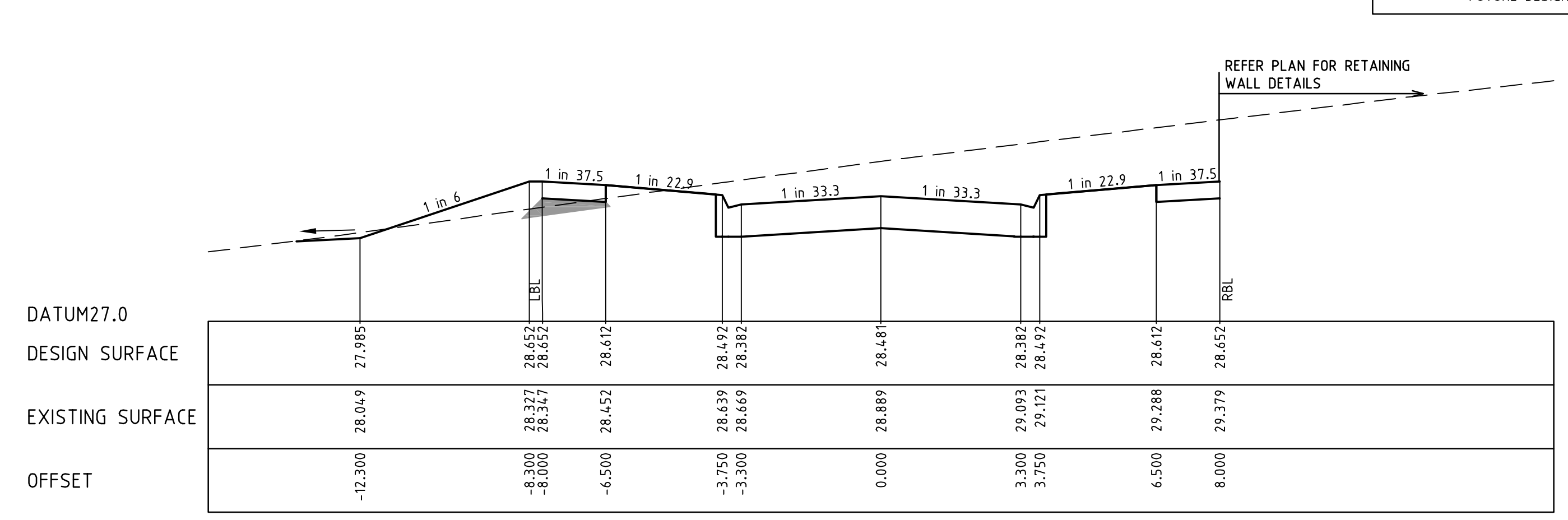
ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Cross Sections Fairvista Avenue - 2
CH193.019 - CH238.601
Drawing No. 0250EHL-03-24 Rev C
Sheet No. 24 of 34
Approved for Construction

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

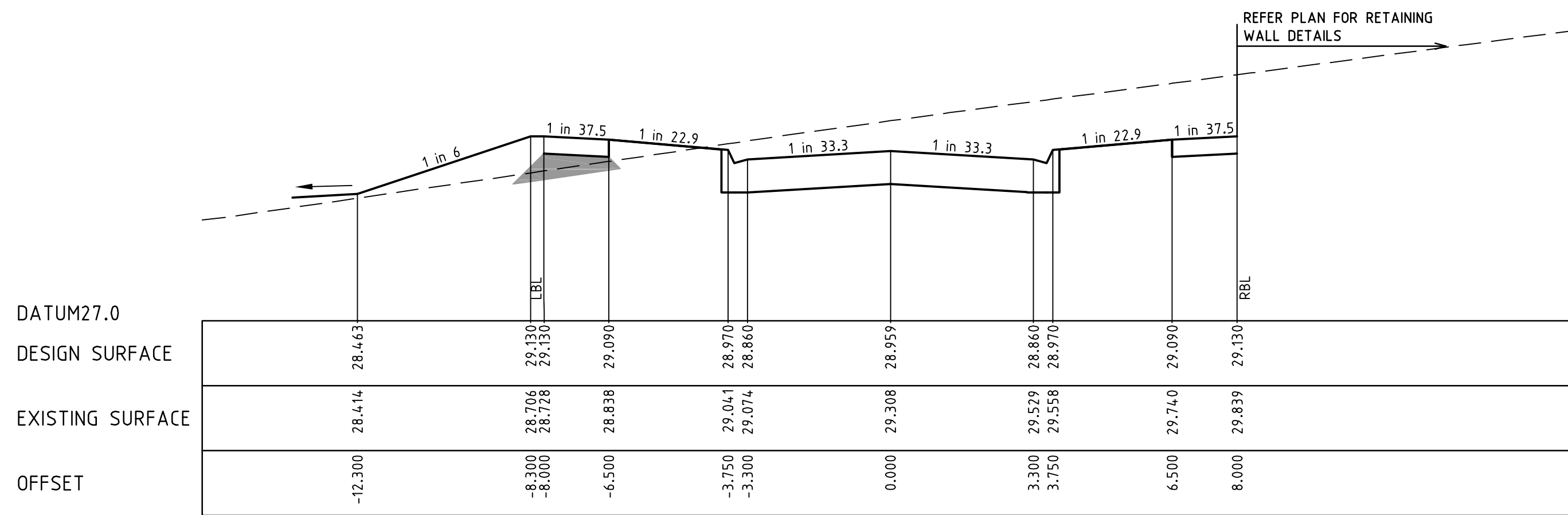
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 --- DESIGN LINE
 --- FUTURE DESIGN LINE



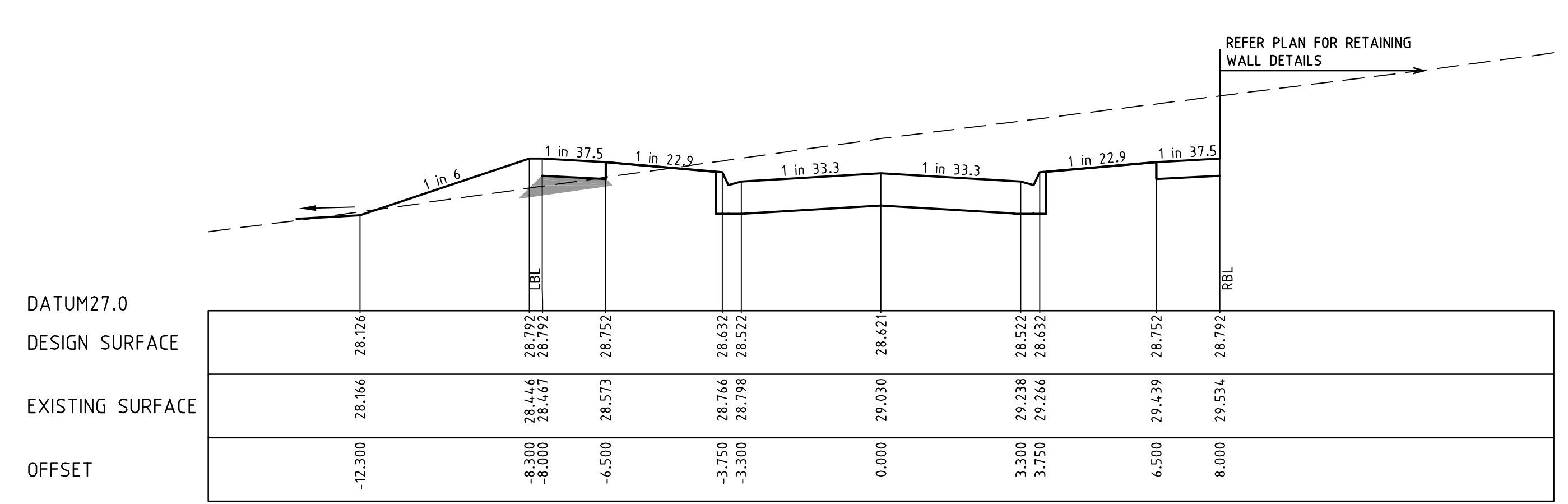
CH 259.174



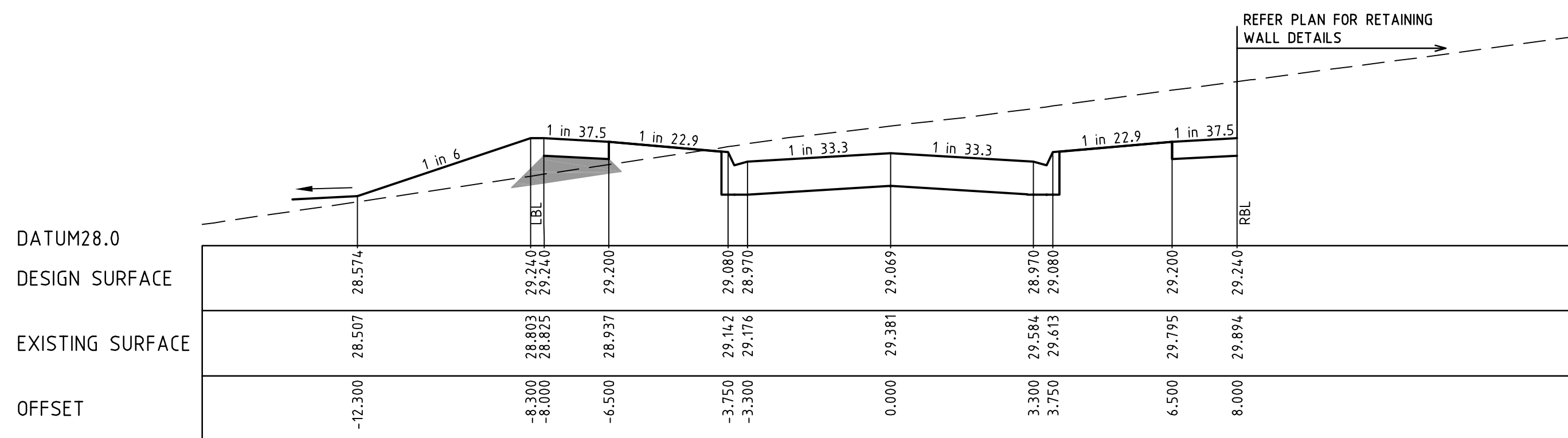
CH 284.601



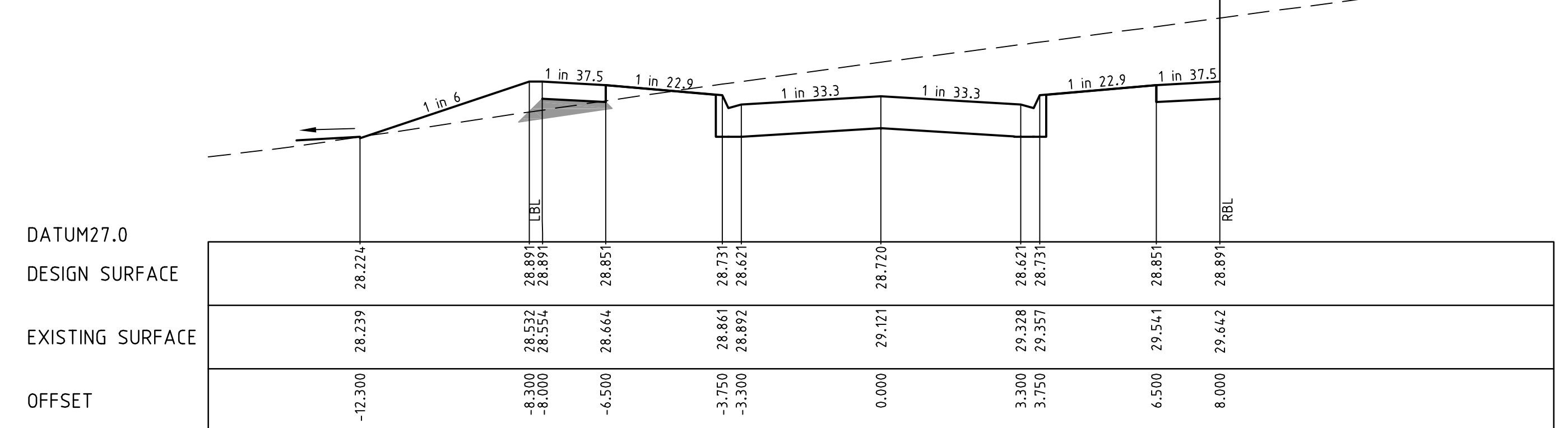
CH 252.601



CH 275.174

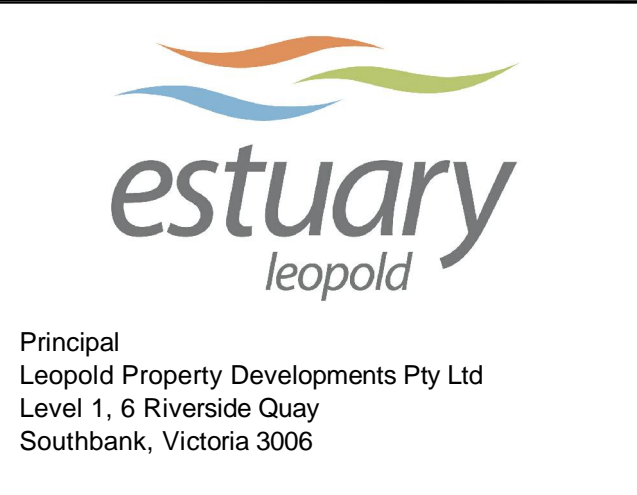


CH 245.174

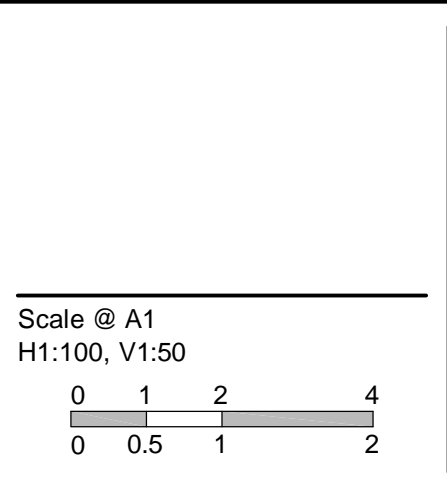


CH 268.601

REVISION	DATE	DES/DT	APPD
C	19.08.10	CB/CB	JG
B	14.07.10	CB/CB	JG
A	18.05.10	CB/CB	JG



Designed
 C. Barker
 Drawn
 C. Barker
 Checked
 C. Birckett
 Authorised
 J. Golden
 Date
 April 2010



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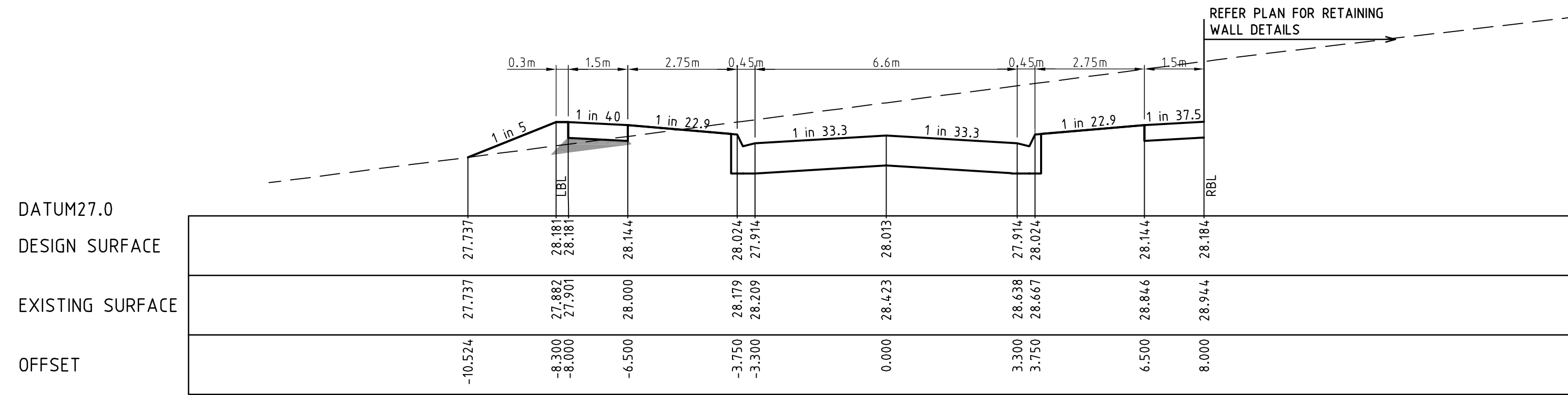
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 Gold Coast +61 7 5578 0222
 Melbourne +61 3 9869 0800
 Traralgon +61 3 5173 0100

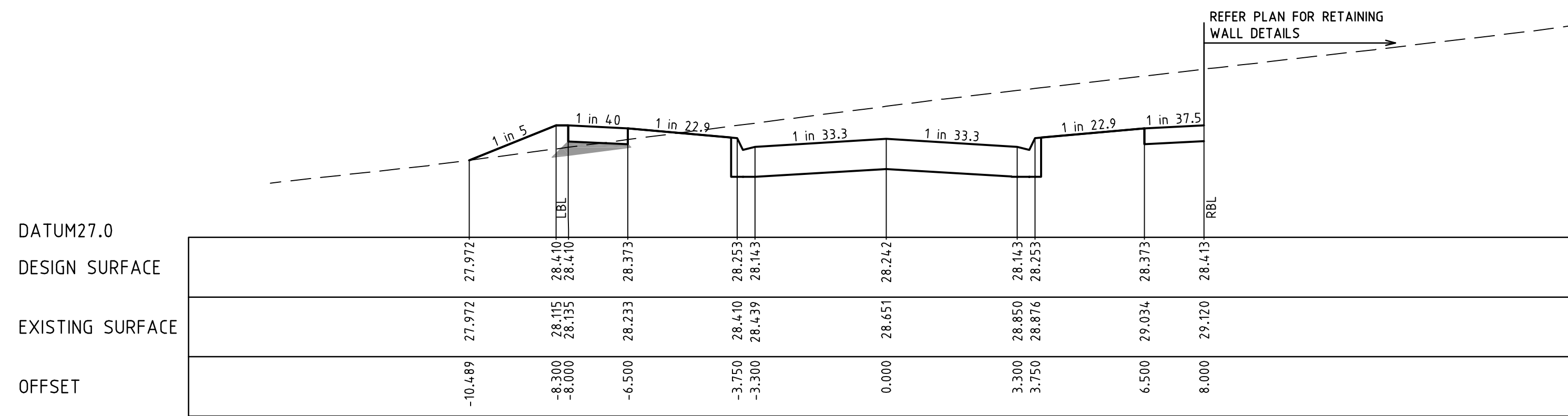
ESTUARY
 Stage 3
 City Of Greater Geelong
 Roadworks and Drainage
 Cross Sections Fairvista Avenue - 3
 CH245.174 - CH284.601
Drawing No. 0250EHL-03-25 **Rev C**
 Sheet No. 25 of 34
 Approved for Construction

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

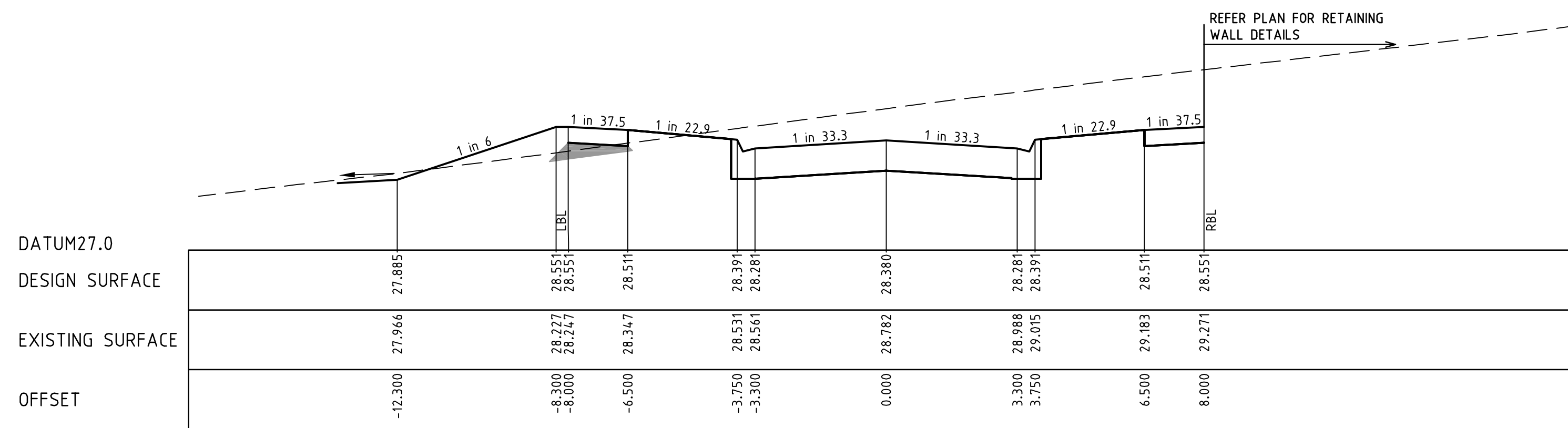
LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE



RTPCH 315.918



CH 300.601

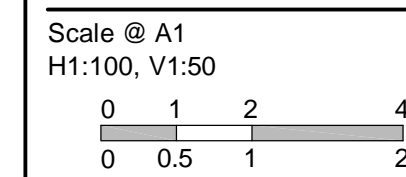


CH 291.314

REVISION	DATE	DES/DFE	APPD
C	19.08.10	CB/CB	JG
B	14.07.10	CB/CB	JG
A	18.05.10	CB/CB	JG

Principal
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Southbank, Victoria 3006

Designed
C. Barker
Drawn
C. Barker
Checked
C. Birkett
Authorised
J. Golden
Date
April 2010



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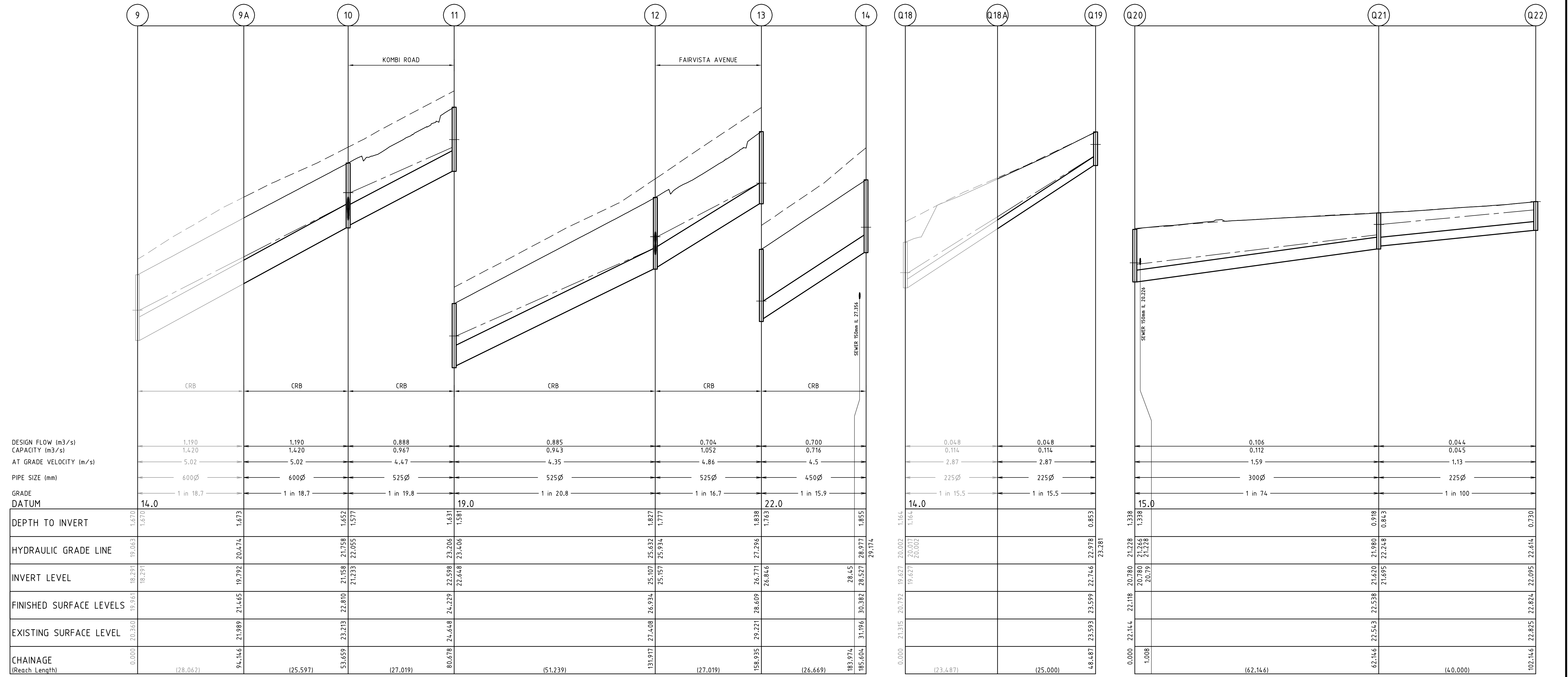
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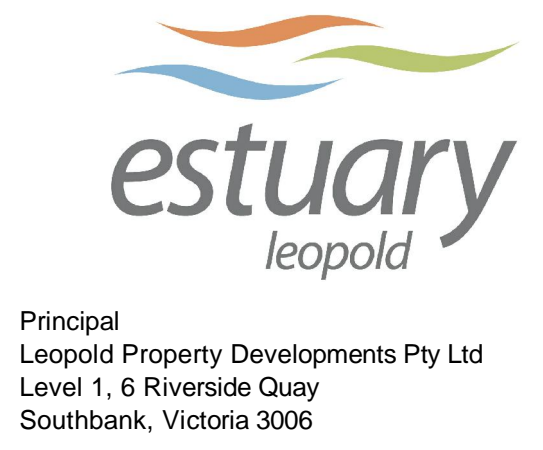
ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Cross Sections Fairvista Avenue - 4
CH291.314 - CH315.918
Drawing No. 0250EHL-03-26 **Rev C**
Sheet No. 26 of 34

Approved for Construction

LEGEND	
---	EXISTING SURFACE
---	DESIGN SURFACE
---	DRAINAGE PIPE/PIT
---	EXISTING DRAINAGE PIPE/PIT
---	HYDRAULIC GRADE LINE

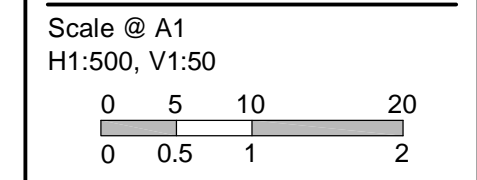


REVISION	DATE	DES/DF	APPD
B COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG



Principal
Leopold Property Developments Pty Ltd
Level 1, 6 Riverside Quay
Southbank, Victoria 3006

Designed
C. Barker
Drawn
C. Barker
Checked
C. Birckett
Authorised
J. Golden
Date
April 2010



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ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Drainage Longitudinal Sections - 1

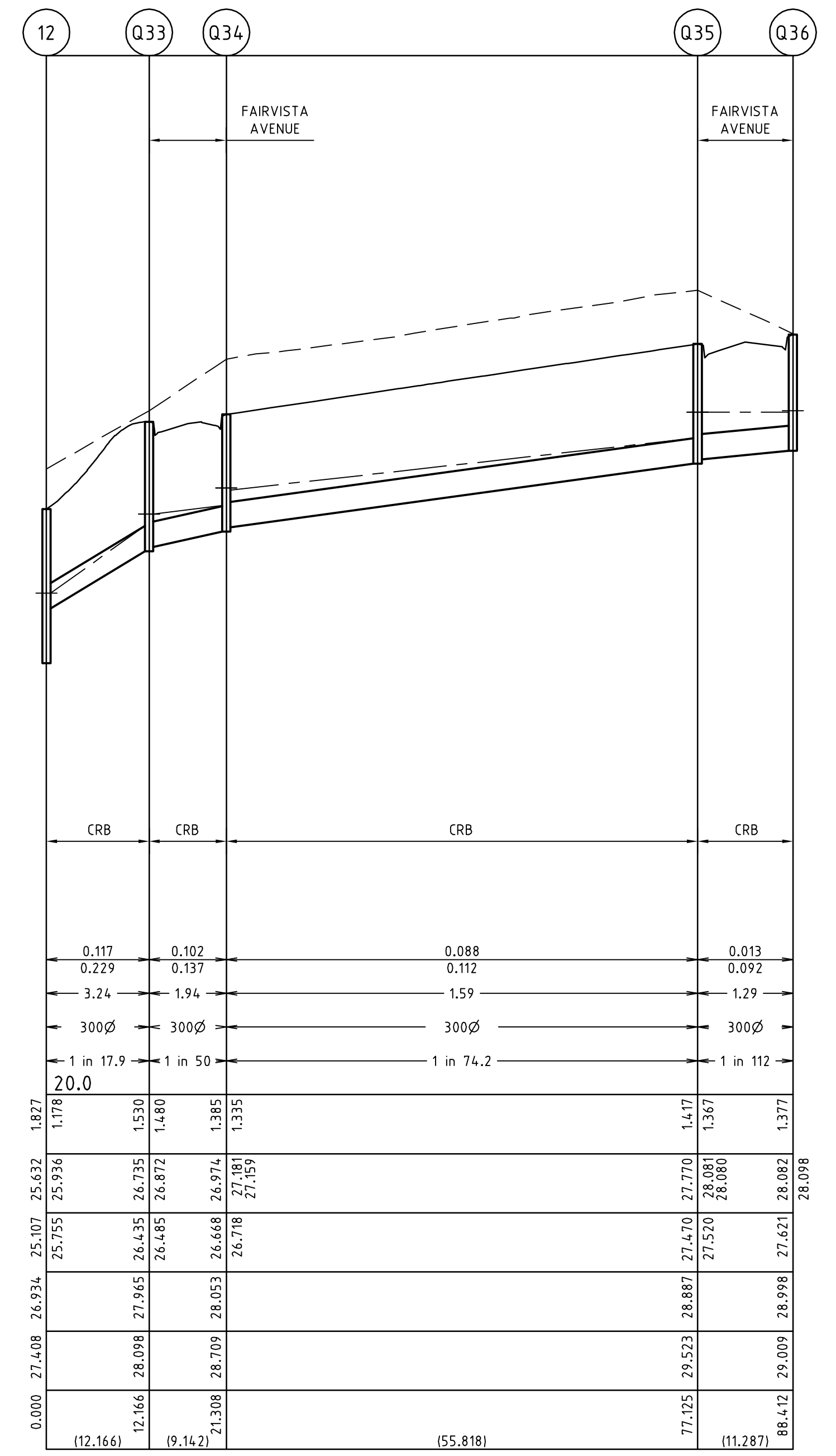
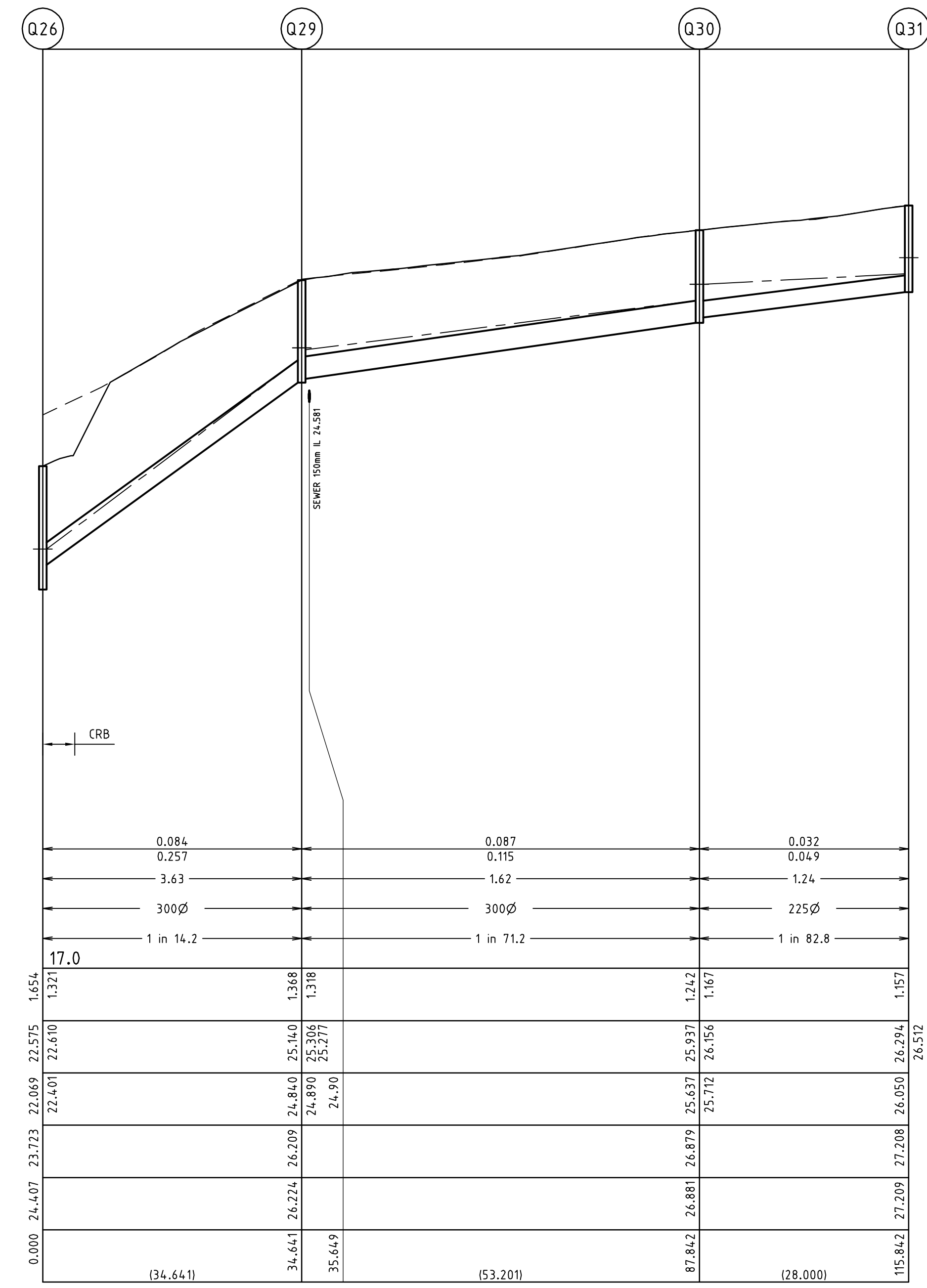
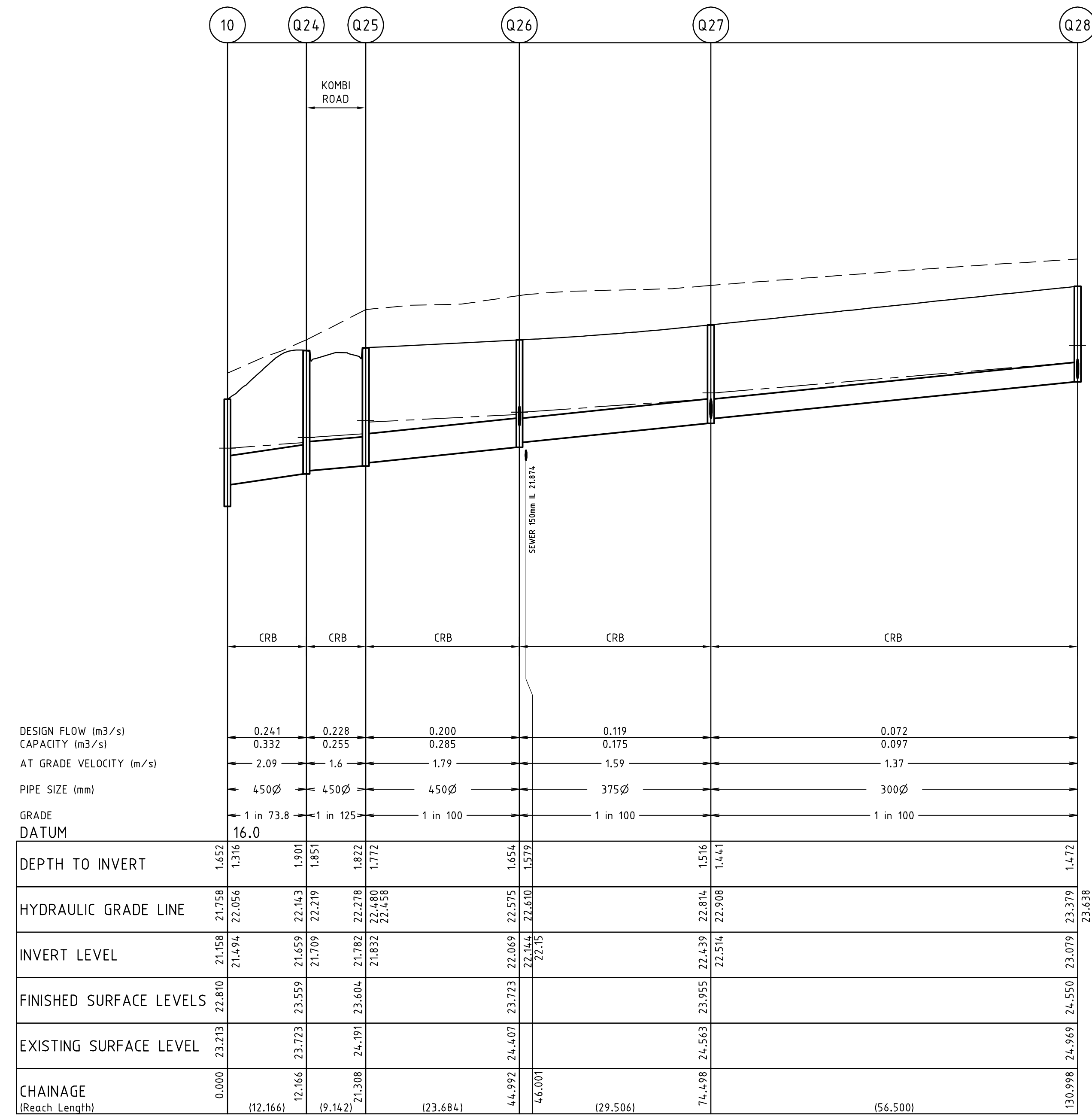
Drawing No. **0250EHL-03-27**
Sheet No. 27 of 34

Rev **B**

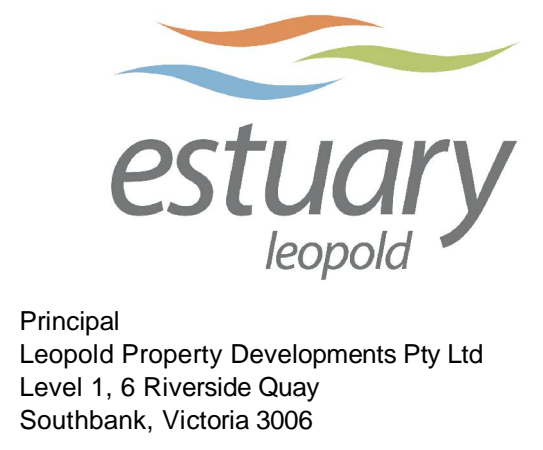
Approved for Construction

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LEGEND	
---	EXISTING SURFACE
---	DESIGN SURFACE
---	DRAINAGE PIPE/PIT
---	EXISTING DRAINAGE PIPE/PIT
---	HYDRAULIC GRADE LINE

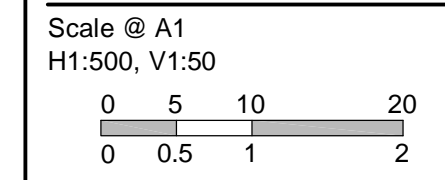


REVISION	DATE	DES/DFT	APPD
B	14.07.10	CB/CB	JG
A	18.05.10	CB/CB	JG



Principal
Leopold Property Developments Pty Ltd
Level 1, 6 Riverside Quay
Southbank, Victoria 3006

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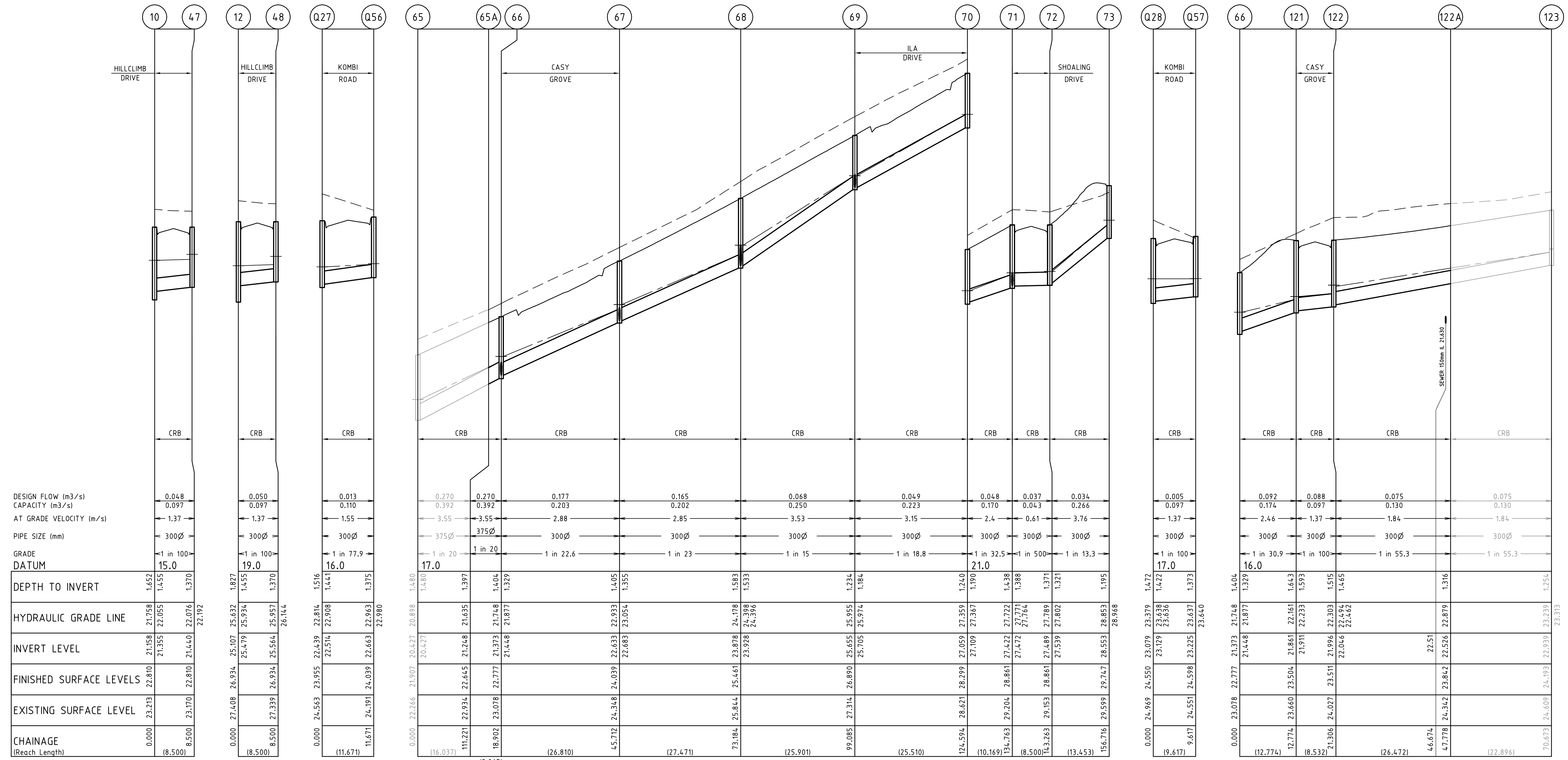
ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Drainage Longitudinal Sections - 2

Drawing No. **0250EHL-03-28** Rev **B**
Sheet No. 28 of 34

Approved for Construction

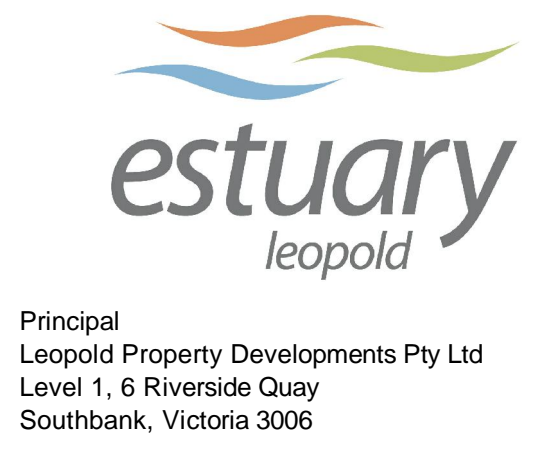
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LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE



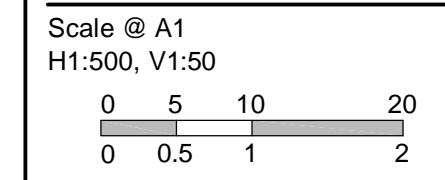
DESIGN FLOW (m ³ /s)	CAPACITY (m ³ /s)	AT GRADE VELOCITY (m/s)	PIPE SIZE (mm)	GRADE DATUM	DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE (Reach Length)
0.048	0.097	1.37	300Ø	15.0	1.652	21.58	21.58	23.213	23.170	0.000
0.050	0.097	1.37	300Ø	19.0	1.455	25.479	25.479	26.934	26.934	8.500
0.013	0.110	1.55	300Ø	16.0	1.516	22.439	22.439	24.563	24.563	11.671
0.270	0.392	3.55	375Ø	17.0	1.680	20.427	20.427	22.934	22.934	16.037
0.270	0.392	3.55	375Ø	17.0	1.397	21.248	21.248	22.645	22.645	11.221
0.177	0.203	2.88	300Ø	16.0	1.404	21.373	21.373	22.777	22.777	18.902
0.165	0.202	2.85	300Ø	16.0	1.329	21.448	21.448	22.777	22.777	18.902
0.068	0.250	3.53	300Ø	16.0	1.583	23.878	23.878	25.461	25.461	73.184
0.049	0.223	3.15	300Ø	16.0	1.533	23.928	23.928	24.398	24.398	73.184
0.048	0.170	2.4	300Ø	16.0	1.234	25.655	25.655	26.890	26.890	99.085
0.037	0.043	0.61	300Ø	16.0	1.184	25.705	25.705	27.314	27.314	99.085
0.034	0.266	3.76	300Ø	16.0	1.240	27.059	27.059	28.621	28.621	124.594
0.005	0.097	1.37	300Ø	16.0	1.190	27.109	27.109	27.367	27.367	110.169
0.092	0.174	2.46	300Ø	16.0	1.388	27.472	27.472	28.861	28.861	134.763
0.088	0.097	1.37	300Ø	16.0	1.388	27.771	27.771	27.764	27.764	134.763
0.075	0.130	1.84	300Ø	16.0	1.371	27.489	27.489	28.861	28.861	143.263
0.075	0.130	1.84	300Ø	16.0	1.321	27.539	27.539	27.802	27.802	143.263
0.005	0.097	1.37	300Ø	16.0	1.195	28.553	28.553	29.747	29.747	156.716
0.092	0.174	2.46	300Ø	16.0	1.472	23.079	23.079	24.550	24.550	174.504
0.088	0.097	1.37	300Ø	16.0	1.422	23.438	23.438	24.551	24.551	174.504
0.075	0.130	1.84	300Ø	16.0	1.373	23.225	23.225	24.598	24.598	196.617
0.075	0.130	1.84	300Ø	16.0	1.373	23.437	23.437	24.551	24.551	196.617
0.092	0.174	2.46	300Ø	16.0	1.472	23.079	23.079	24.550	24.550	234.000
0.088	0.097	1.37	300Ø	16.0	1.422	23.438	23.438	24.551	24.551	234.000
0.075	0.130	1.84	300Ø	16.0	1.373	23.225	23.225	24.598	24.598	256.716
0.075	0.130	1.84	300Ø	16.0	1.373	23.437	23.437	24.551	24.551	256.716
0.092	0.174	2.46	300Ø	16.0	1.472	23.079	23.079	24.550	24.550	284.674
0.088	0.097	1.37	300Ø	16.0	1.422	23.438	23.438	24.551	24.551	284.674
0.075	0.130	1.84	300Ø	16.0	1.373	23.225	23.225	24.598	24.598	306.674
0.075	0.130	1.84	300Ø	16.0	1.373	23.437	23.437	24.551	24.551	306.674
0.092	0.174	2.46	300Ø	16.0	1.472	23.079	23.079	24.550	24.550	334.674
0.088	0.097	1.37	300Ø	16.0	1.422	23.438	23.438	24.551	24.551	334.674
0.075	0.130	1.84	300Ø	16.0	1.373	23.225	23.225	24.598	24.598	356.674
0.075	0.130	1.84	300Ø	16.0	1.373	23.437	23.437	24.551	24.551	356.674

REVISION	DATE	DES/DF	APPD
B COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG



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Authorised
J. Golden
Date
April 2010



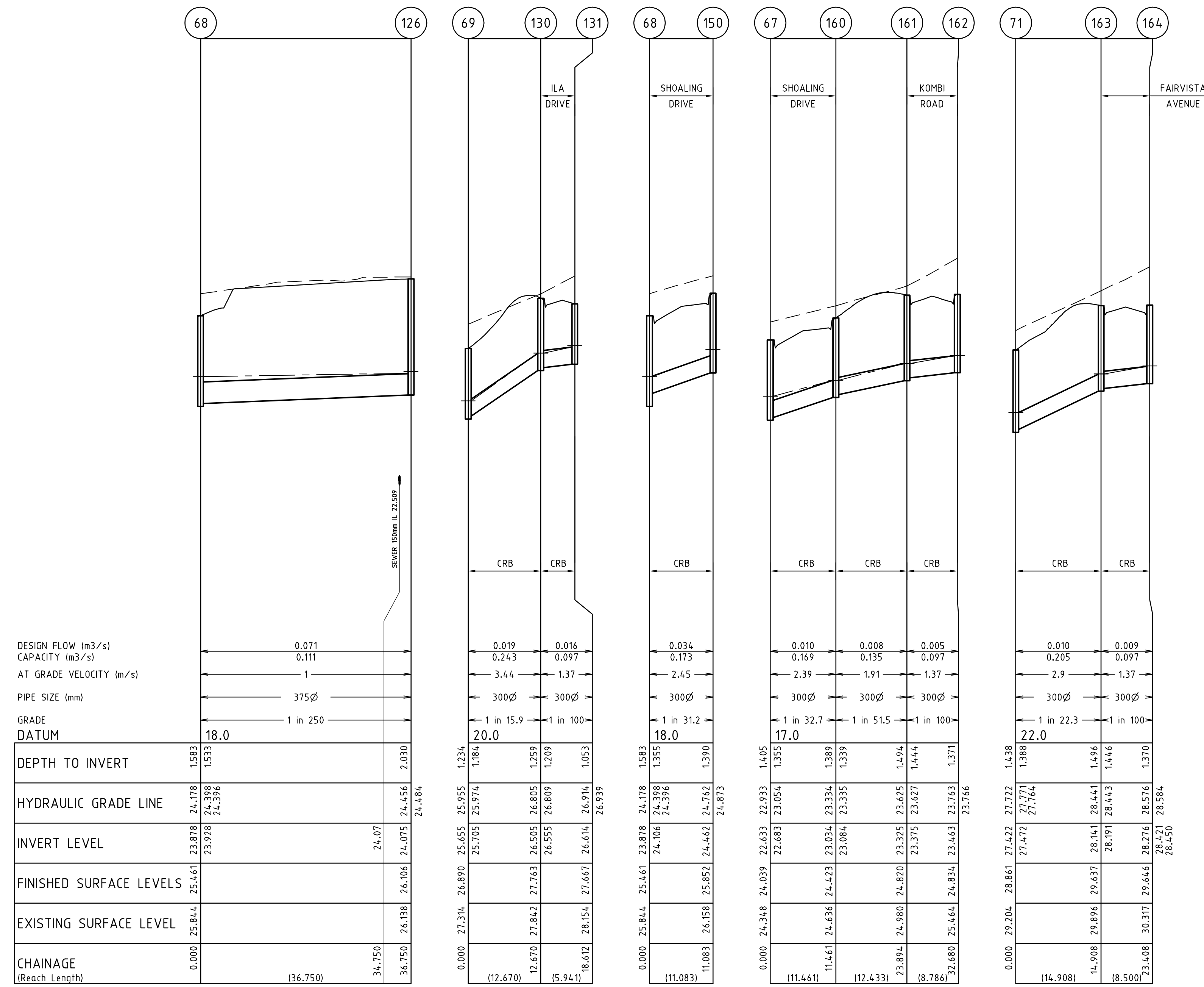
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ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Drainage Longitudinal Sections - 3
Drawing No. 0250EHL-03-29 Rev B
Sheet No. 29 of 34
Approved for Construction

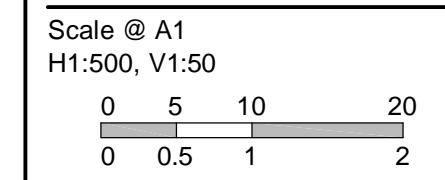
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE



REVISION	DATE	DES/DF/T	APP/D
D DRAINAGE LINE REMOVED	22.09.10	CB/CB	JG
C DRAINAGE ADDED FOR RETAINING WALL	19.08.10	CB/CB	JG
B COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG

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Southbank, Victoria 3006

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ESTUARY
Stage 3
City of Greater Geelong
Roadworks and Drainage
Drainage Longitudinal Sections - 4

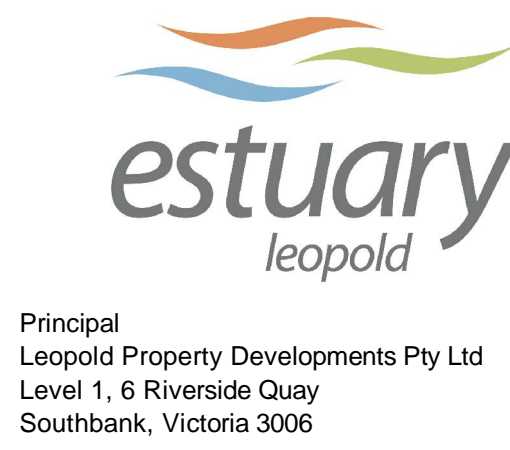
Drawing No. **0250EHL-03-30** Rev D
Sheet No. 30 of 34

Approved for Construction

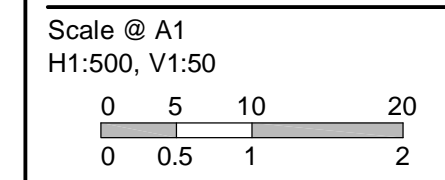
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PIT SCHEDULE											
PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		COVER LEVEL (m)	DEPTH (m)	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIA. (mm)	INVERT RL (m)	DIA. (mm)	INVERT RL (m)				
9A	Ex ENDDPIPE	900	900	600	19.792			21.465	1.673		CONNECT TO EXISTING ENDDPIPE
10	SIDE ENTRY PIT	900	900	525 450 300	21.233 21.494 21.355	600	21.158	22.810	1.652	CGG305 CGG309	
11	SIDE ENTRY PIT	900	900	525	22.648	525	22.598	24.229	1.631	CGG305 CGG309	
12	SIDE ENTRY PIT	900	900	525 300 300	25.157 25.755 25.479	525	25.107	26.934	1.827	CGG305 CGG309	
13	SIDE ENTRY PIT	900	900	450	26.846	525	26.771	28.609	1.838	CGG305 CGG309	
14	END ENTRY PIT	900	900			450	28.527	30.382	1.855	CGG305	TEMPORARY END ENTRY PIT
47	SIDE ENTRY PIT	900	900			300	21.440	22.810	1.370	CGG305 CGG309	
48	SIDE ENTRY PIT	900	900			300	25.564	26.934	1.370	CGG305 CGG309	
65A	Ex ENDDPIPE			375	21.248			22.645	1.397		CONNECT TO EXISTING ENDDPIPE
66	SIDE ENTRY PIT	900	900	300 300	21.448 21.448	375	21.373	22.777	1.404	CGG305 CGG309	
67	SIDE ENTRY PIT	900	900	300 300	22.683 22.683	300	22.633	24.039	1.405	CGG305 CGG309	
68	JUNCTION PIT	900	900	300 375 300	23.928 23.928 24.106	300	23.878	25.461	1.583	CGG305 CGG306	
69	SIDE ENTRY PIT	900	900	300 300	25.705 25.705	300	25.655	26.890	1.234	CGG305 CGG309	
70	SIDE ENTRY PIT	900	900	300	27.109	300	27.059	28.299	1.240	CGG305 CGG309	
71	SIDE ENTRY PIT	900	900	300 300	27.472 27.472	300	27.422	28.861	1.438	CGG305 CGG309	
72	SIDE ENTRY PIT	900	900	300	27.539	300	27.489	28.861	1.371	CGG305 CGG309	
73	SIDE ENTRY PIT	600	900			300	28.553	29.747	1.195	CGG305 CGG309	
121	SIDE ENTRY PIT	900	900	300	21.911	300	21.861	23.504	1.643	CGG305 CGG309	
122	SIDE ENTRY PIT	900	900	300	22.046	300	21.996	23.511	1.515	CGG305 CGG309	
122A	ENDDPIPE					300	22.526	23.842	1.316		
126	JUNCTION PIT	900	900			375	24.075	26.106	2.030	CGG305 CGG308	
130	SIDE ENTRY PIT	900	900	300	26.489	300	26.439	27.763	1.324	CGG305 CGG310	
131	GRATED SIDE ENTRY PIT	600	900			300	26.614	27.667	1.053	CGG318	
150	SIDE ENTRY PIT	900	900			300	24.462	25.852	1.390	CGG305 CGG309	
160	SIDE ENTRY PIT	900	900	300	23.084	300	23.034	24.423	1.389	CGG305 CGG309	
161	SIDE ENTRY PIT	900	900	300	23.375	300	23.325	24.820	1.494	CGG305 CGG309	
162	SIDE ENTRY PIT	900	900			300	23.463	24.834	1.371	CGG305 CGG309	
163	SIDE ENTRY PIT	900	900	300	28.191	300	28.141	29.637	1.496	CGG305 CGG309	
164	SIDE ENTRY PIT	900	900	225	28.421	300	28.276	29.646	1.370	CGG305 CGG309	
Q18A	Ex ENDDPIPE			225	21.137			22.403	1.266		CONNECT TO EXISTING ENDDPIPE
Q19	JUNCTION PIT	600	900			225	22.746	23.599	0.853	CGG307	
Q20	Ex PIT			300	20.780			22.118	1.338		CONVERT TO JUNCTION PIT FROM END ENTRY
Q21	JUNCTION PIT	600	900	225	21.695	300	21.620	22.538	0.918	CGG307	
Q22	JUNCTION PIT	600	900			225	22.095	22.824	0.730	CGG307	
Q24	DOUBLE SIDE ENTRY PIT	900	1900	450	21.709	450	21.659	23.559	1.901	CGG305 CGG312	
Q25	DOUBLE SIDE ENTRY PIT	900	1900	450	21.832	450	21.782	23.604	1.822	CGG305 CGG312	
Q26	JUNCTION PIT	900	900	375 300	22.144 22.401	450	22.069	23.723	1.654	CGG305 CGG306	
Q27	DOUBLE SIDE ENTRY PIT	900	1900	300 300	22.514 22.514	375	22.439	23.955	1.516	CGG305 CGG312	
Q28	DOUBLE SIDE ENTRY PIT	900	1900			300	23.079	24.550	1.472	CGG305 CGG312	
Q29	JUNCTION PIT	900	900	300	24.890	300	24.840	26.209	1.368	CGG305 CGG308	
Q30	JUNCTION PIT	900	900	225	25.712	300	25.637	26.879	1.242	CGG305 CGG308	
Q31	JUNCTION PIT	600	900			225	26.050	27.208	1.157	CGG305 CGG308	
Q33	DOUBLE SIDE ENTRY PIT	900	1900	300	26.485	300	26.435	27.965	1.530	CGG305 CGG312	
Q34	DOUBLE SIDE ENTRY PIT	900	1900	300	26.718	300	26.668	28.053	1.385	CGG305 CGG312	
Q35	DOUBLE SIDE ENTRY PIT	900	1900	300	27.520	300	27.470	28.887	1.417	CGG305 CGG312	
Q36	DOUBLE SIDE ENTRY PIT	900	1900			300	27.621	28.998	1.377	CGG305 CGG312	
Q56	DOUBLE SIDE ENTRY PIT	900	1900			300	22.663	24.039	1.375	CGG305 CGG312	
Q57	DOUBLE SIDE ENTRY PIT	900	1900			300	23.225	24.598	1.373	CGG305 CGG312	

REVISION	DATE	DES/DF	APPD
D DRAINAGE LINE REMOVED	22.09.10	CB/CB	JG
C PITS FOR EXTRA DRAINAGE ADDED	19.08.10	CB/CB	JG
B COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG



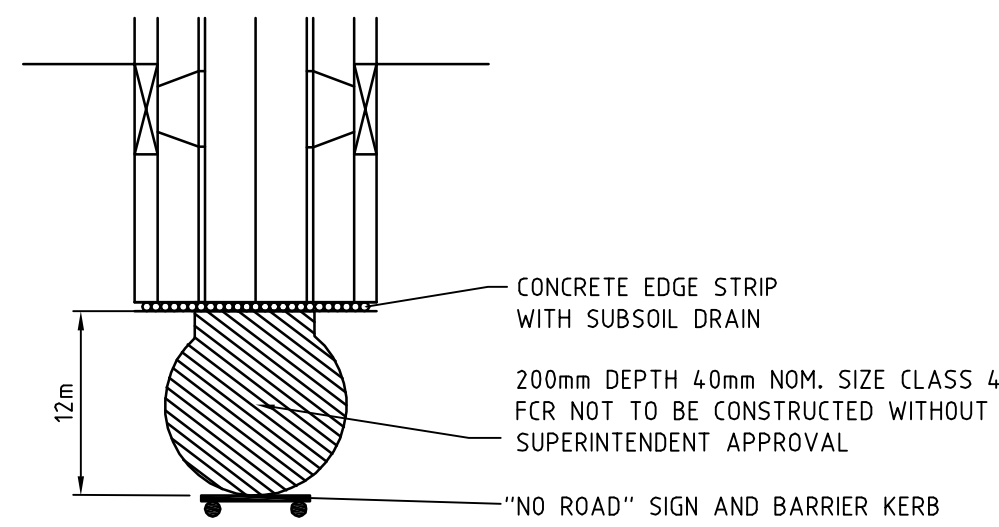
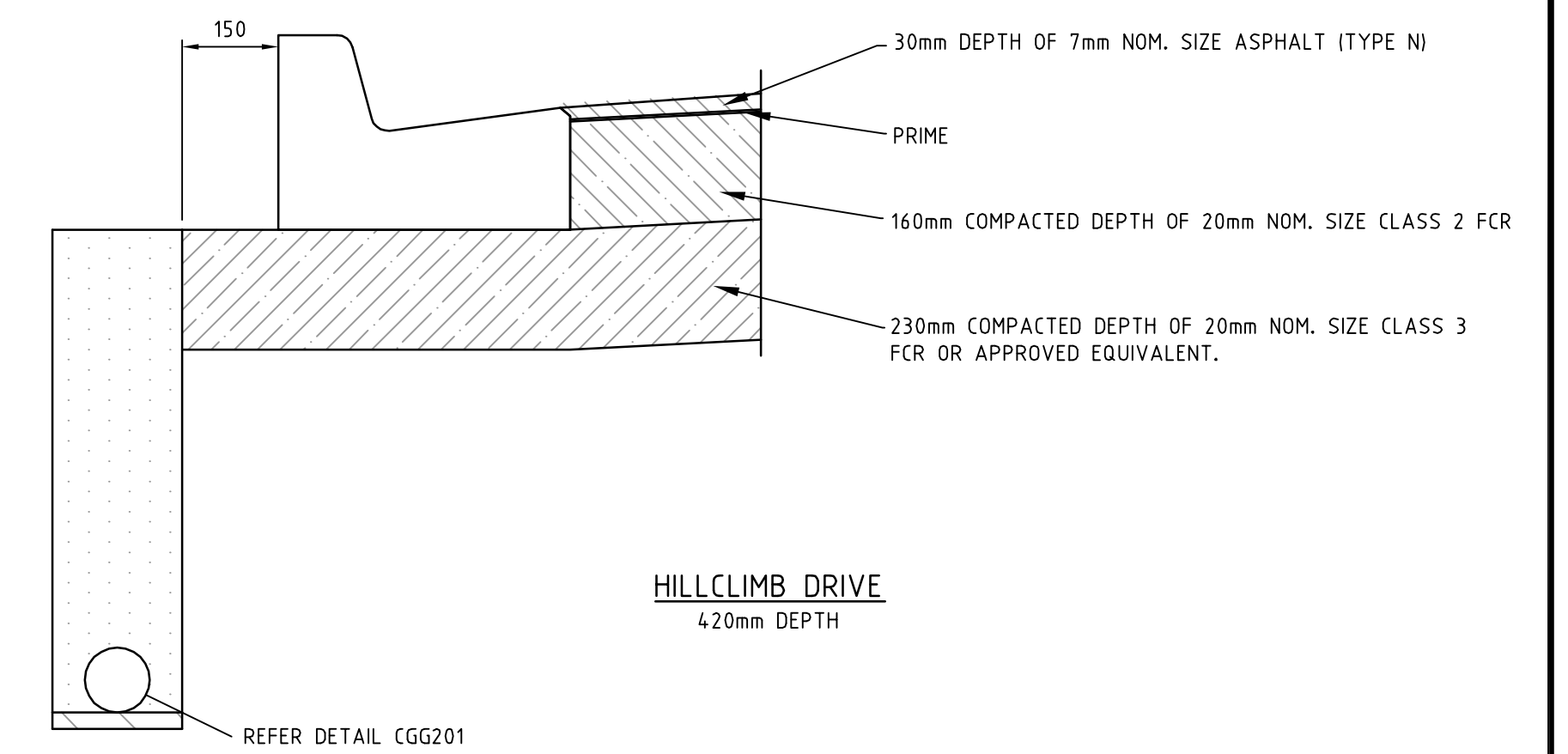
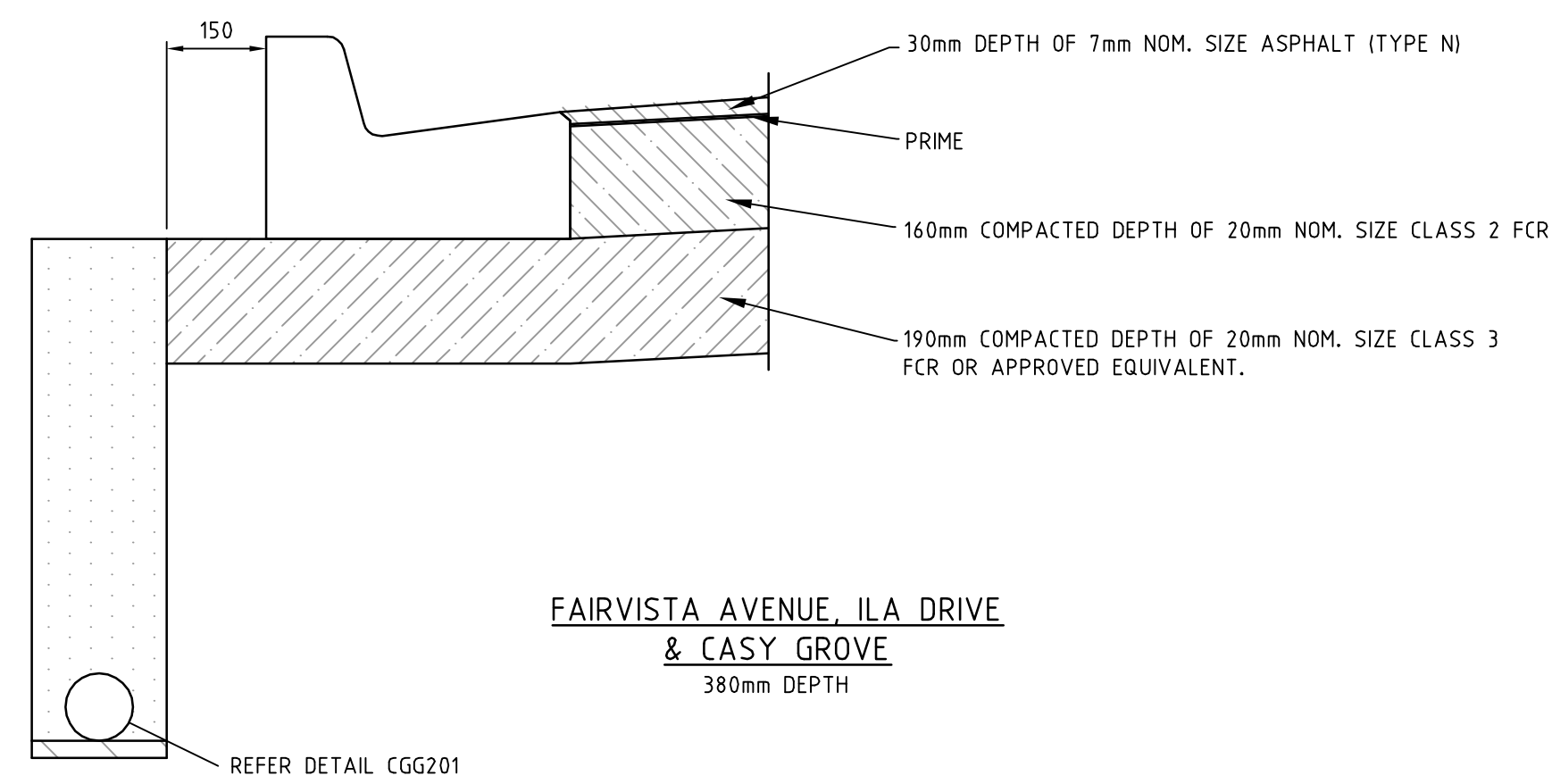
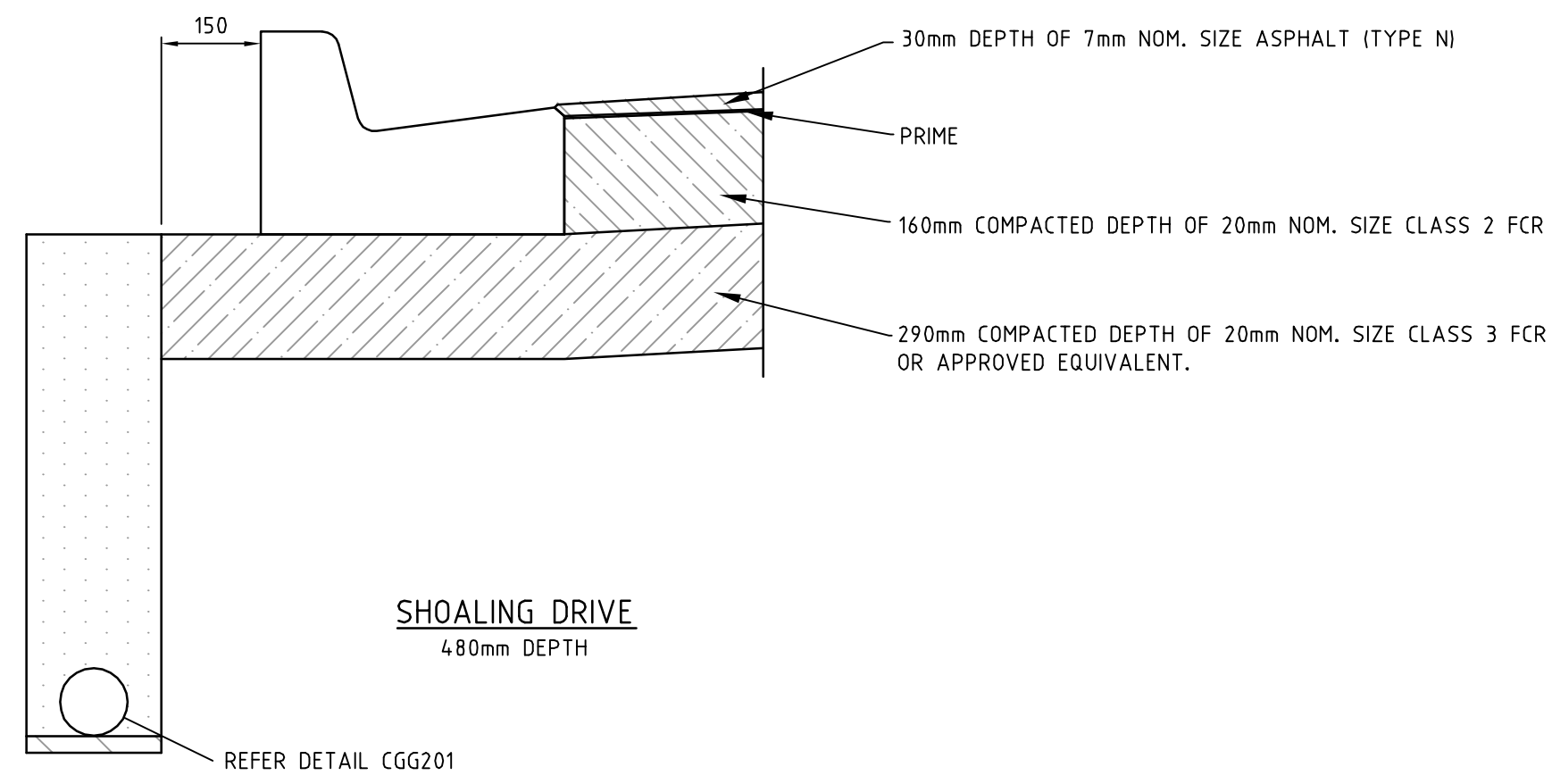
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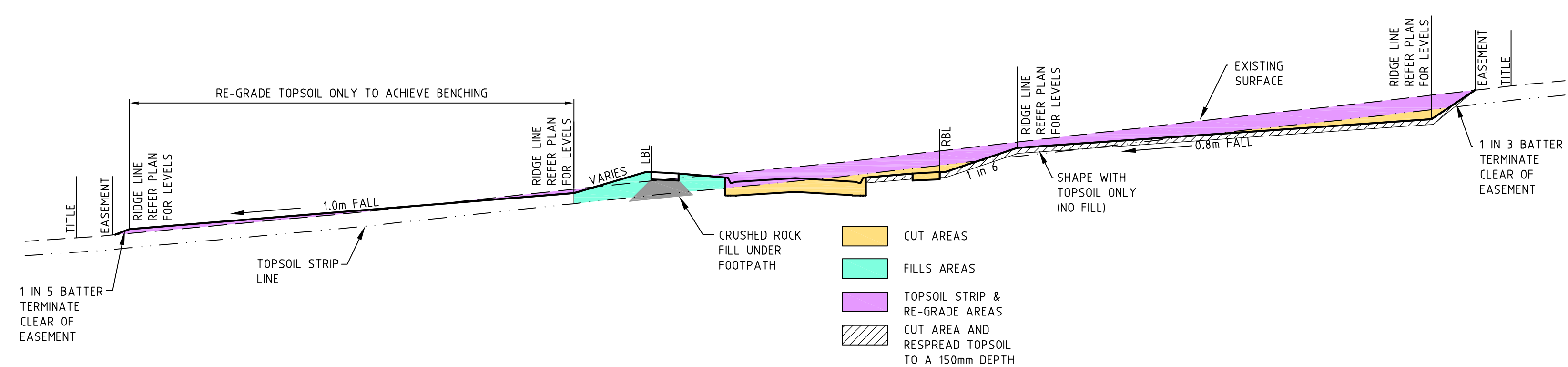
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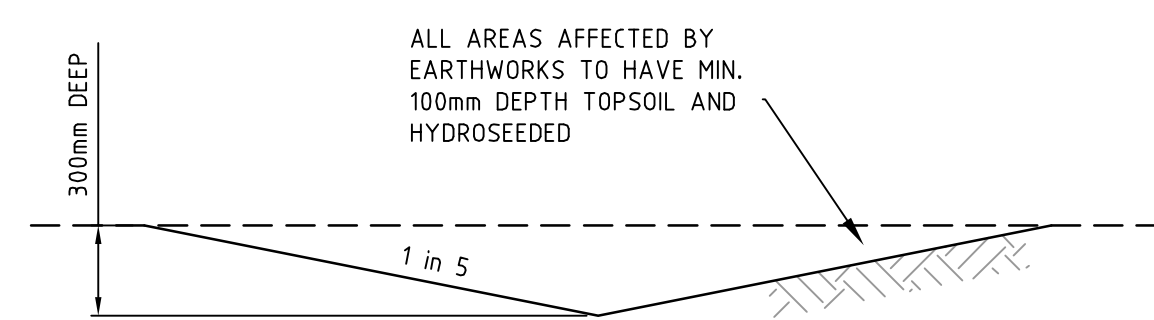
ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Drainage Longitudinal Sections - 5
& Pit Schedule
Drawing No. 0250EHL-03-31 **Rev D**
Sheet No. 31 of 34
Approved for Construction



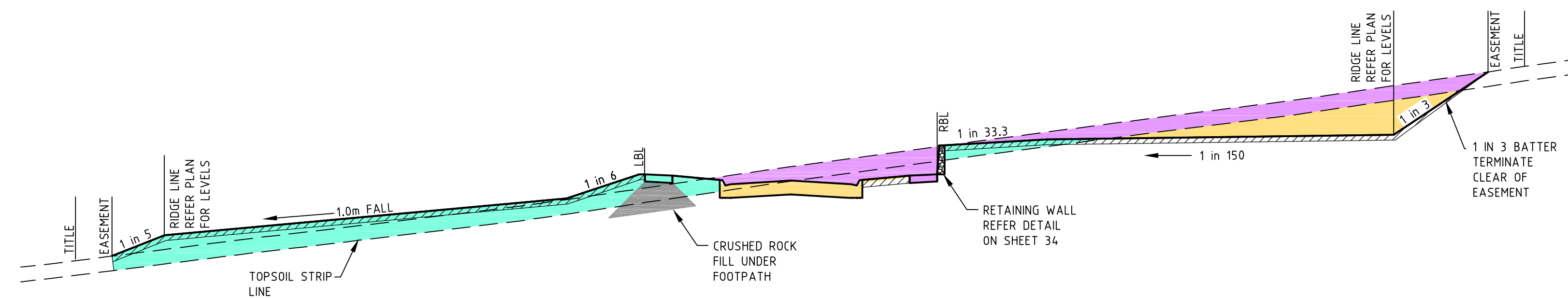
TYPICAL TEMPORARY TURN AREA DETAIL
NOT TO SCALE



TYPICAL BENCHING SECTION
KOMBI ROAD
NOT TO SCALE



CUT OFF DRAIN TYPICAL SECTION
NOT TO SCALE



TYPICAL RETAINING WALL SECTION FAIRVISTA AVENUE
NOT TO SCALE

REVISION	DATE	DES/DFT	APP'D
C	19.08.10	CB/CB	JG
B	14.07.10	CB/CB	JG
A	18.05.10	CB/CB	JG

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Date
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Scale @ A1
As Shown

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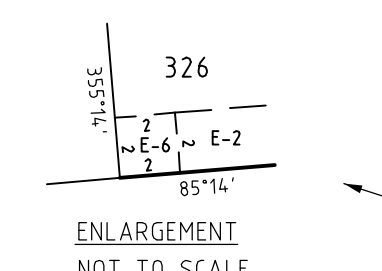
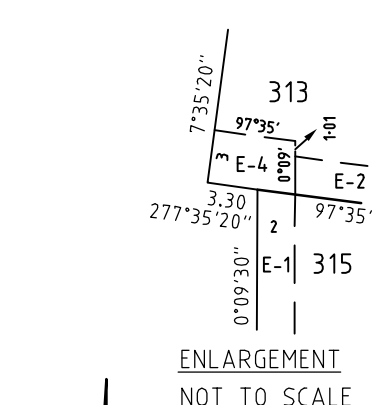
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ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Standard Details

Drawing No. 0250EHL-03-32
Sheet No. 32 of 34

Rev C

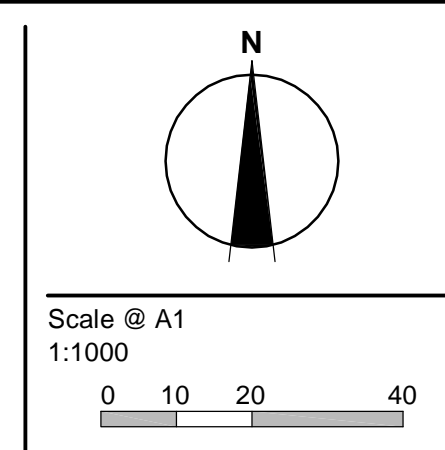
Approved for Construction



REVISION	DATE	DES/DF	APPD
B COUNCIL AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO COUNCIL FOR APPROVAL	18.05.10	CB/CB	JG

Principal
Leopold Property Developments Pty Ltd
Level 1, 6 Riverside Quay
Southbank, Victoria 3006

Designed
C. Barker
Drawn
C. Barker
Checked
C. Birkett
Authorised
J. Golden
Date
April 2010



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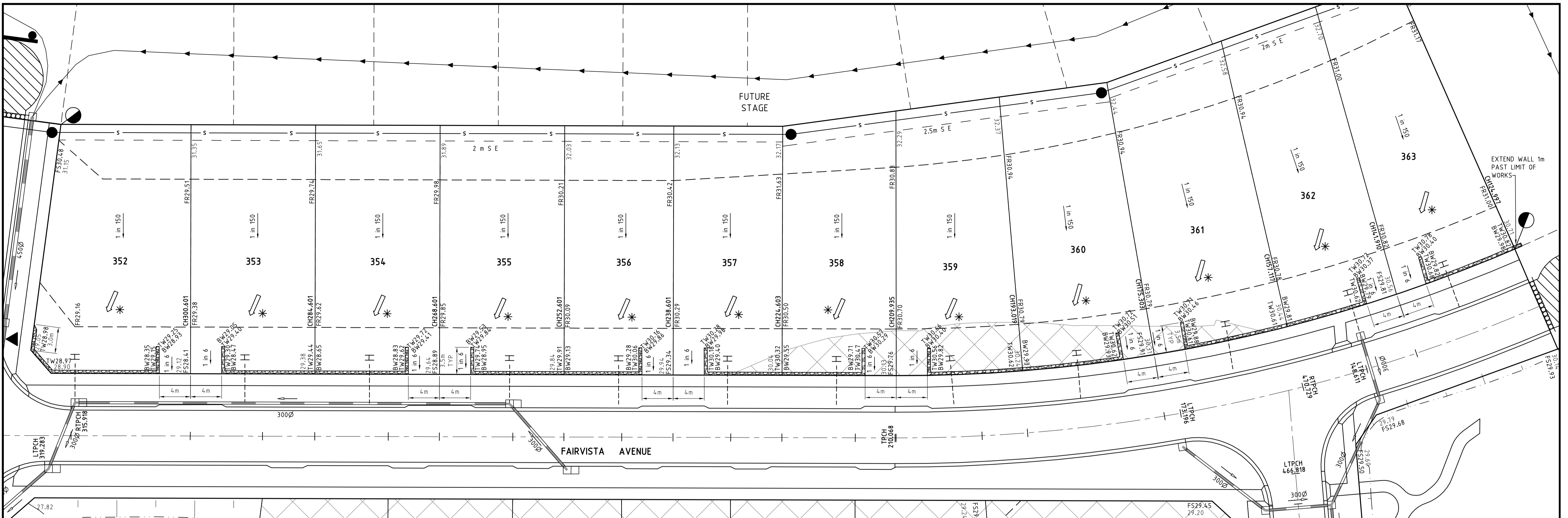
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ESTUARY
Stage 3
City Of Greater Geelong
Roadworks and Drainage
Subdivision Setout Plan

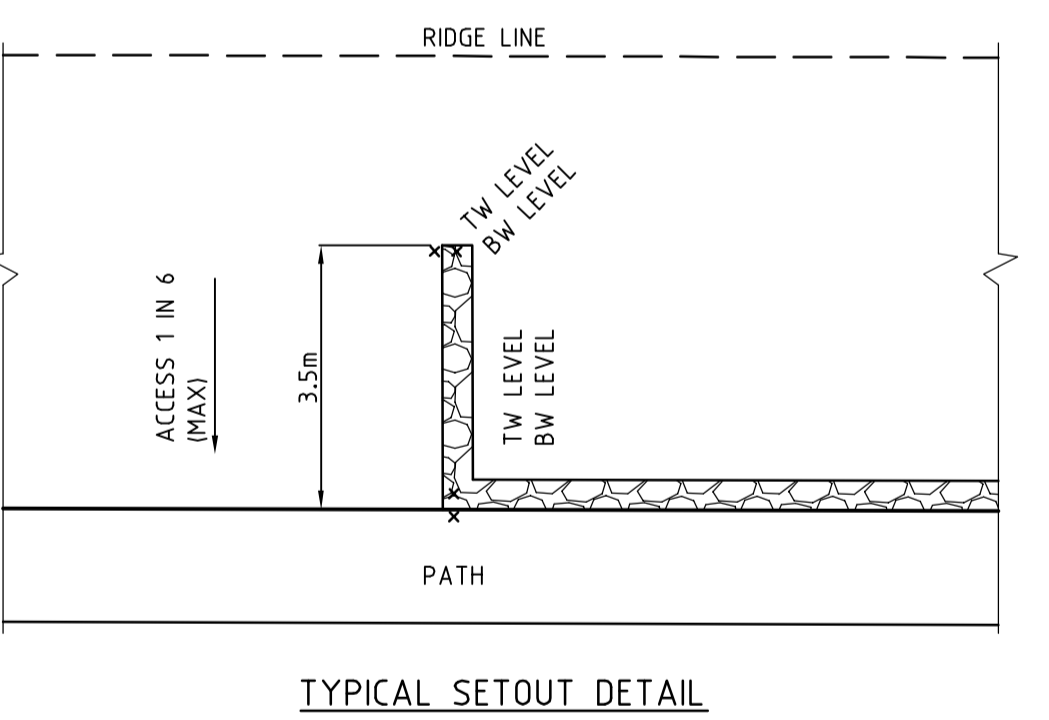
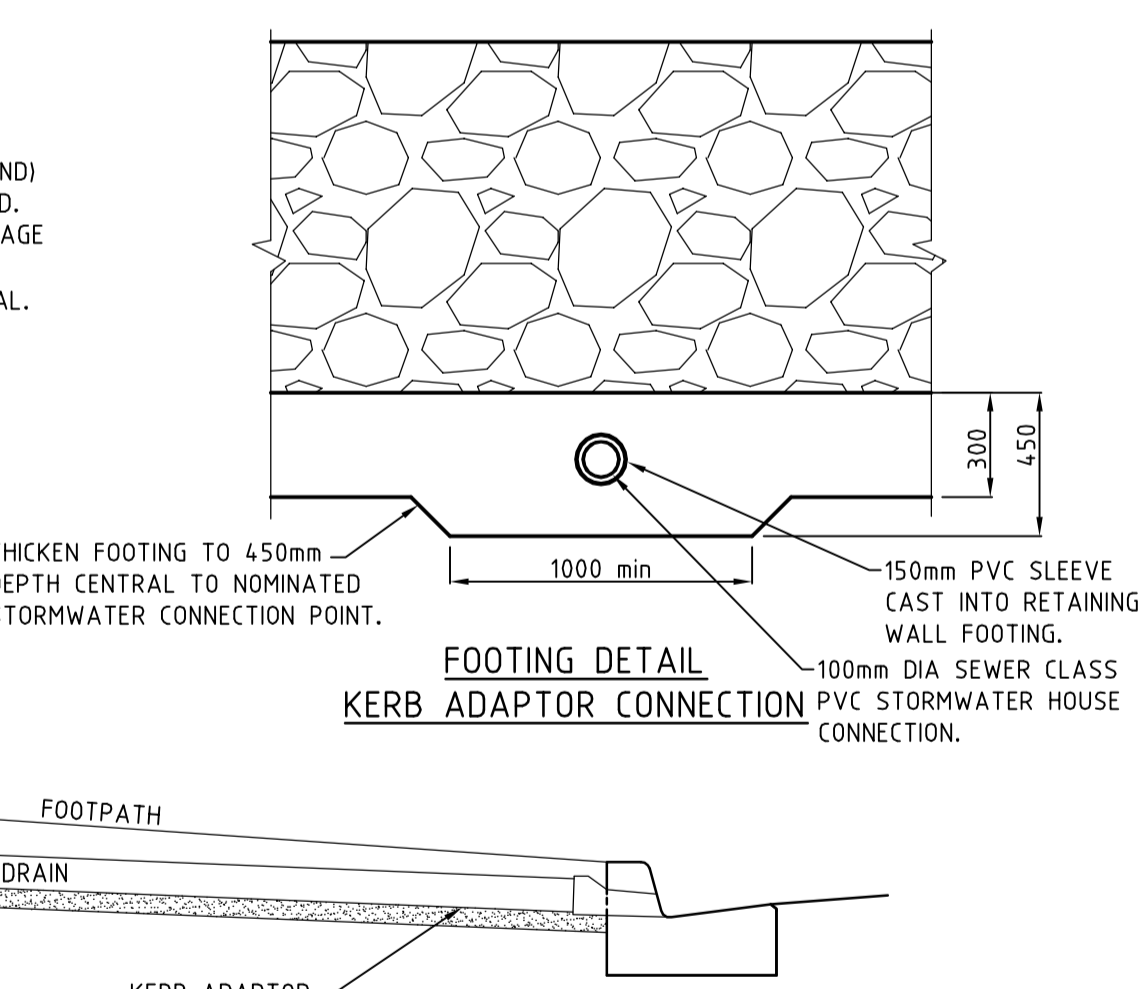
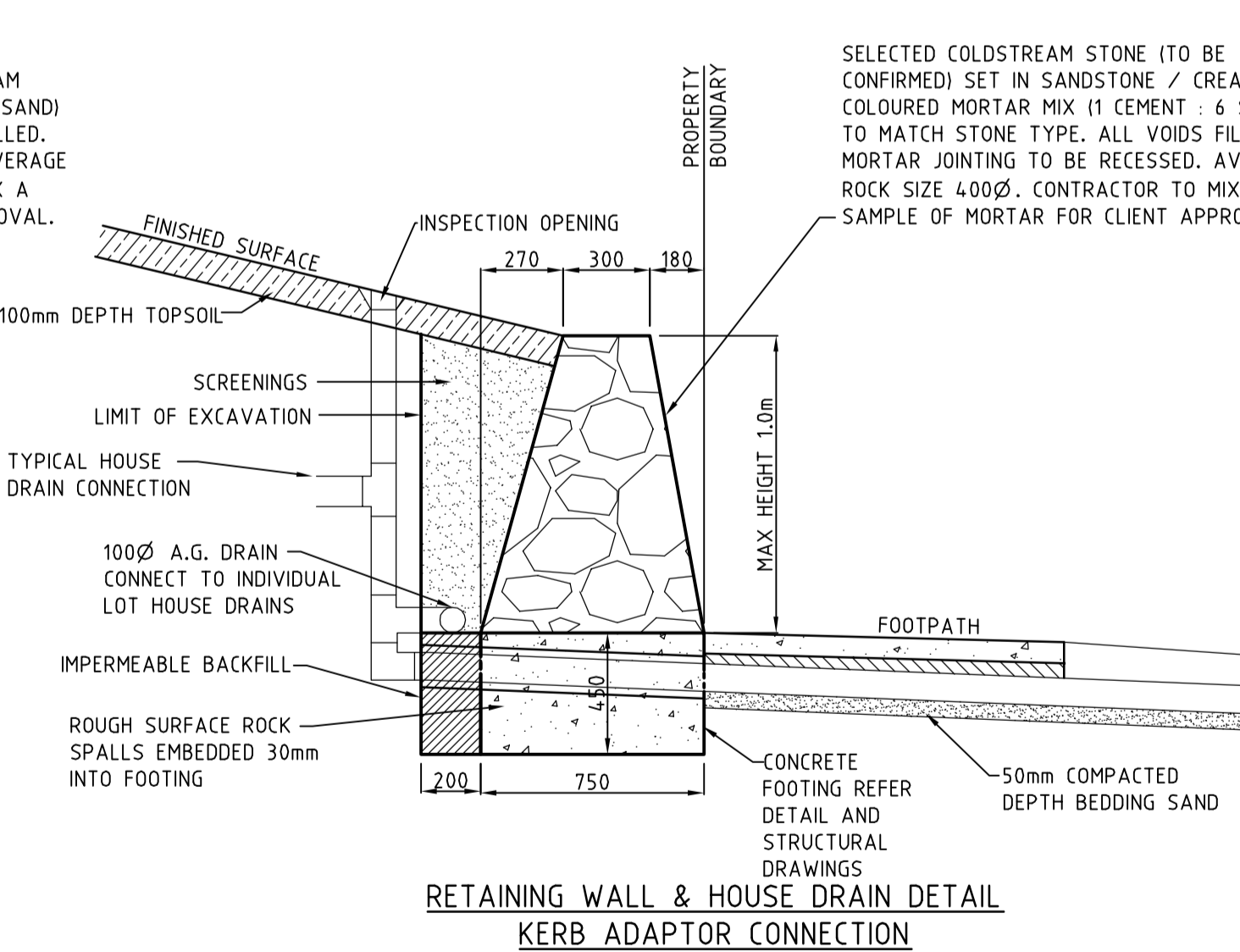
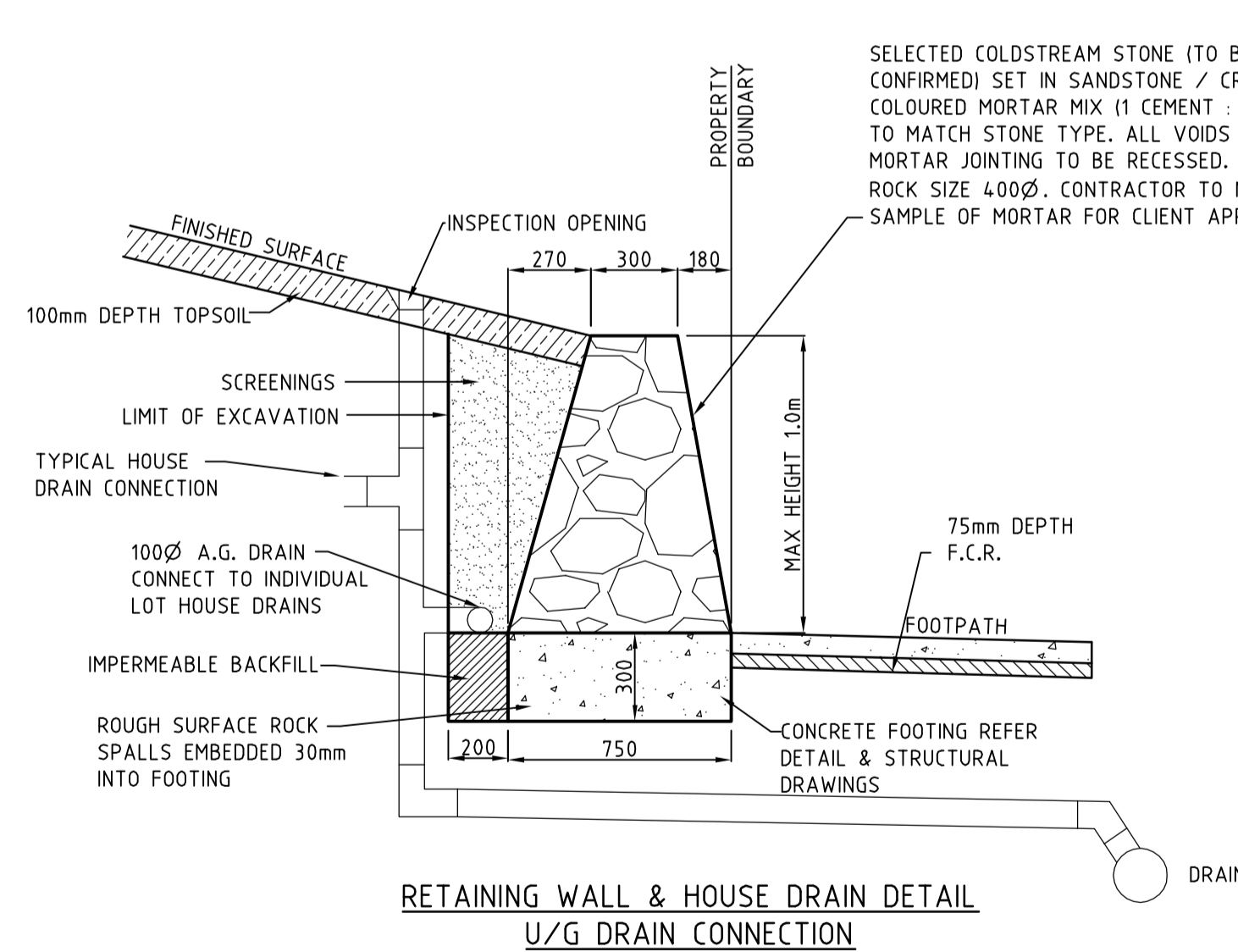
Drawing No. **0250EHL-03-33** Rev B
Sheet No. 33 of 34

Approved for Construction

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- 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 STORMWATER DRAIN
 - 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 REMOVED
 - PERMANENT SURVEY MARK
 - TEMPORARY BENCH MARK
 - PROPOSED DRIVEWAY



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

REVISION	DATE	DES/DT	APP'D
B ISSUED TO COUNCIL FOR APPROVAL	08.10.10	CB/CB	JG
A ISSUED TO COUNCIL FOR APPROVAL	19.08.10	CB/CB	JG

estuary leopold

Principal
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 Level 1, 6 Riverside Quay
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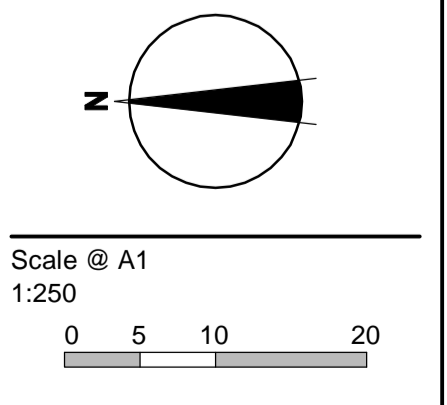
Designed
 C. Barker

Drawn
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Checked
 C. Birkett

Authorised
 J. Golden

Date
 April 2010



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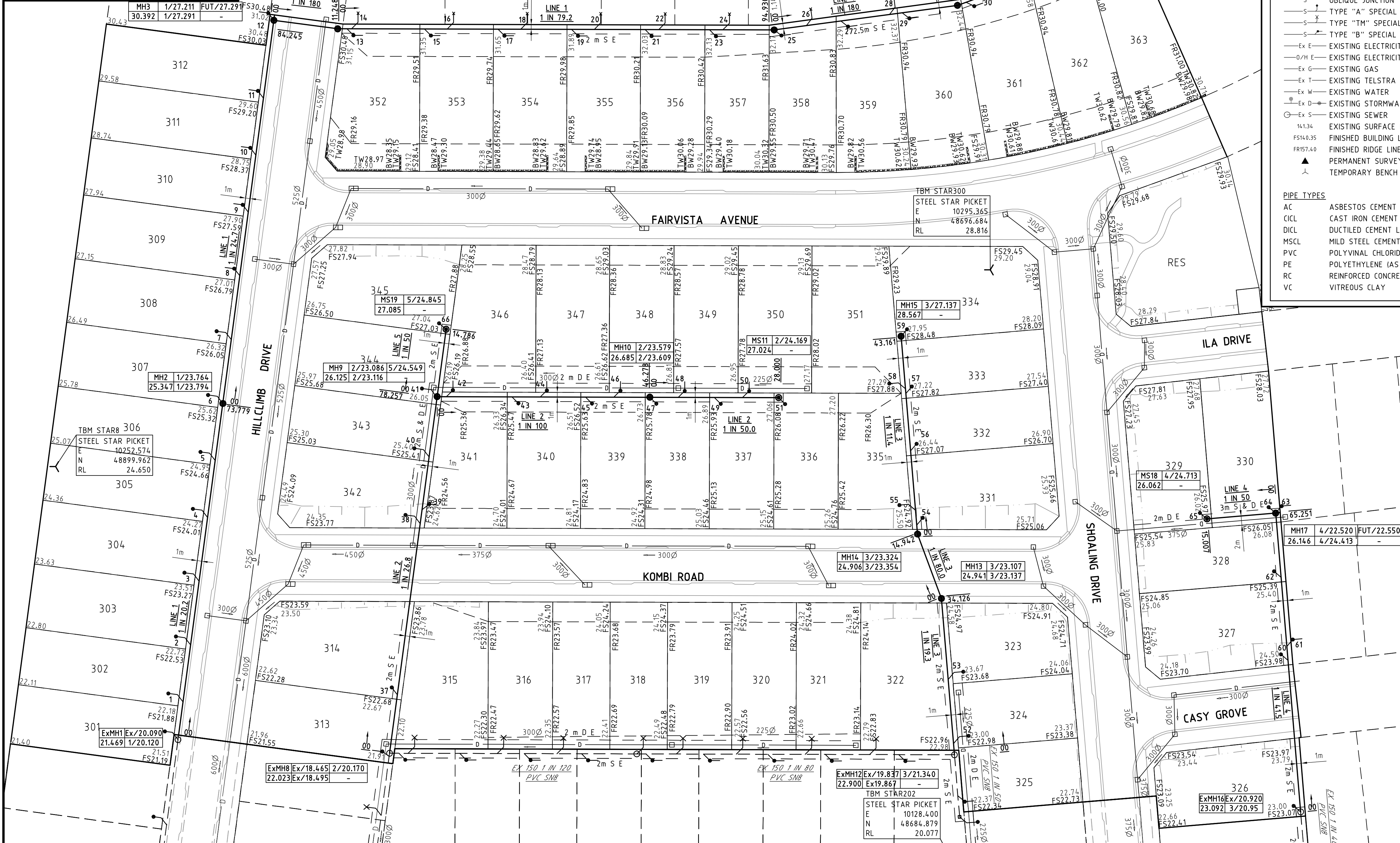
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ESTUARY
 Stage 3
 City of Greater Geelong
 Roadworks and Drainage
 Retaining Wall Layout Plan

Drawing No. 0250EHL-03-34 Rev B
 Sheet No. 34 of 34

Approved for Construction

WARNING
BEWARE OF UNDERGROUND SERVICES
 The locations of underground services are approximate only and their exact position should be proven on site.
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DIAL 1100 BEFORE YOU DIG
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LEGEND - SEWER PLAN

- STORMWATER DRAIN & PIT
- SEWER & MAINTENANCE STRUCTURES
- TYPE "A" JUMP UP
- TYPE "B" JUMP UP
- TYPE "C" SLIDE LINE
- OBLIQUE JUNCTION
- TYPE "A" SPECIAL
- TYPE "B" SPECIAL
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING TELSTRA
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK

PIPE TYPES

- AC ASBESTOS CEMENT
- CICL CAST IRON CEMENT LINED
- DICL DUCTILE CEMENT LINED
- MCL MILD STEEL CEMENT LINED
- PVC POLYVINYL CHLORIDE
- PE POLYETHYLENE (AS SPECIFIED)
- RC REINFORCED CONCRETE
- VC VITREOUS CLAY

NOTES

GENERAL

- SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE WATER SERVICES ASSOCIATION OF AUSTRALIA STANDARD CODES (WSA 02-2002 - WSA 03-2002) IN CONJUNCTION WITH BARWON WATER'S SUPPLEMENT TO THE CODES.
- BARWON WATER AND THE PROJECT MANAGER TO BE NOTIFIED 7 CLEAR WORKING DAYS NOTICE PRIOR TO COMMENCEMENT OF WORKS.
- THE CONTRACTOR SHALL:
 - COMPLY WITH SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
 - NOTIFY THE DEPARTMENT OF LABOUR OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
 - INSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
- THE CONTRACTOR SHALL MAKE ALL WORKS AVAILABLE FOR THE INSPECTOR/SURVEYOR TO CARRY OUT THE NECESSARY INSPECTIONS AND SURVEYING BEFORE BACKFILLING IS COMMENCED.
- SERVICES ARE APPROXIMATE ONLY. ALL RELEVANT SERVICE AUTHORITY'S ARE TO BE CONTACTED PRIOR TO THE COMMENCEMENT OF EXCAVATION TO ESTABLISH THEIR EXACT LOCATION.
- CONTACT PRIOR TO COMMENCEMENT OF WORKS:
 CITY OF GREATER GEELONG
 POWERCOR
 TELSTRA
 TRU
 VICTORIAN WORKCOVER AUTHORITY
- ALL SERVICES ARE TO BE LOCATED ON SITE PRIOR TO ANY EXCAVATION.
- INVERT LEVELS OF EXISTING SEWERS AND WATERMANS TO BE CHECKED PRIOR TO THE COMMENCEMENT OF WORKS.
- CLASS 2 BACKFILL TO BE USED UNDER DRIVEWAYS FOR WATER AND SEWER RETICULATION.
- PROPERTY OWNERS ARE TO BE NOTIFIED IN WRITING BY THE CONSULTANT 14 CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- COPY OF CADASTRAL MAP GRID (MGA) CONNECTION & COPY OF AUSTRALIAN HEIGHT DATUM (AHD) CONNECTION IS TO BE PROVIDED BY CONTRACTOR.
- WORKS SHALL BE EFFECTED BETWEEN THE HOURS OF 8:00am AND 5:00pm MONDAY - FRIDAY, IN THE EVENT THAT WORKS ARE TO BE EFFECTED OUTSIDE THESE WORKING HOURS, A LETTER REQUESTING APPROVAL FOR SUCH OUT OF HOURS WORK SHALL BE LODGED TO THE SENIOR QUALITY AUDITOR.
- THE CONTRACTOR SHALL COMPLY WITH SAFETY REQUIREMENTS RELATING TO WORKING NEAR POWER LINES AS SET BY THE CHIEF ELECTRICAL INSPECTOR WHERE NECESSARY AN ACCREDITED TRAINED SPOTTER IS TO BE PROVIDED.
- WATER RESTRICTIONS ARE TO APPLY FROM MIDNIGHT JUNE 30th 2006, IN ACCORDANCE WITH BY-LAW NO. 187. ONLY TRIGGER HOSES (MAXIMUM SIZE 25mm) MAY BE USED FOR CONSTRUCTION WORK NOT INCLUDING TRENCHING, UNLESS OTHERWISE EXEMPTED BY THE AUTHORITY IN WRITING. MECHANICAL COMPACTION IS TO BE USED IN ACCORDANCE WITH MRWA SPECIFICATION 04.03 TRENCH WORKS UNTIL FURTHER NOTICE. ANY WATER USED TO FLUSH WATER MAINS IS TO BE RECLAIMED AND USED FOR CONSTRUCTION PURPOSES.

SEWER

- THE CONTRACTOR SHALL CORE CUT ALL HOLES INTO EXISTING PRECAST SEWER MAINTENANCE HOLES.
- ALL FSL'S SHOWN IN MAINTENANCE HOLES INFORMATION BOX ARE TOP OF MANHOLE LEVELS.
- ALL END OF LINES NOMINATED AS TMS ARE TO HAVE A TERMINAL MAINTENANCE SHAFT AS PER BARWON WATER STANDARD DRAWING 7009S.
- WHERE FUTURE SEWER MAINS ARE INDICATED A 150mm ACCESS COUPLING AND CAP ARE TO BE PLACED OUT OF THE MANHOLE.
- WARNING: ENTRY INTO ANY MAINTENANCE HOLE IS CONTROLLED BY CONFINED SPACE REGULATIONS BEING "OCCUPATIONAL HEALTH & SAFETY (CONFINED SPACES) REGULATIONS 1996, STATUTORY RULE NO 148/1996 AND A.S. 2865 - 1995 SAFE WORKING IN CONFINED SPACES". PERSONS REQUIRING ACCESS TO ANY BARWON WATER MANHOLE AS PART OF THE DEVELOPER WORKS PROCESS MUST CONTACT THE SENIOR QUALITY AUDITOR PH (03) 5226 9204 FOR ANY REQUIREMENTS. DURING THE CONSTRUCTION OF WORKS TO GAIN ACCESS TO A BARWON WATER MANHOLE THE PROCEDURE AS OUTLINED IN THE ATTACHED FLOWCHART IS TO BE FOLLOWED, AND "THE CONFINED SPACE ENTRY PERMIT APPLICATION FORM" (ALSO ATTACHED) IS TO BE COMPLETED AND LODGED WITH THE SENIOR QUALITY AUDITOR 3 (THREE) CLEAR WORKING DAYS PRIOR TO ENTRY.
- ALL SEWERS ARE TO BE PVC-SNB.
- DETECTOR TAPE TO BE PLACED OVER SEWERS AT ALL ROAD CROSSINGS AND ALL CURVED SEWER MAINS.
- BORED SECTIONS OF SEWER TO BE CCTV INSPECTED IN ACCORDANCE WITH BARWON WATER'S LAND DEVELOPMENT MANUAL AND SUBMITTED TO BARWON WATER FOR ACCEPTANCE.
- ALL MANHOLE JOINTS, INCLUDING DROPS TO BE SEALED WITH FERROPRE OR APPROVED EQUIVALENT.
- ALL EXCAVATIONS AROUND A NEWLY CONSTRUCTED MANHOLE TO BE BACKFILLED WITH 3% CEMENT STABILISED SAND.

SPECIAL

- TRENCH COMPACTION RESULTS TO BE SUBMITTED BY CONSULTANT WITH 'AS CONSTRUCTED' NOTES.

BARWON WATER APPROVED CONTRACTOR TO CONNECT TO EXISTING ACCESS CHAMBER AT CONTRACTORS COST. 7 CLEAR DAYS NOTICE PRIOR TO THE COMMENCEMENT OF WORKS MUST BE GIVEN TO THE SUPERINTENDENT AND BARWON WATER SENIOR QUALITY AUDITOR.

BARWON WATER APPROVED CONTRACTOR TO CONSTRUCT NEW HOUSE CONNECTIONS OVER EXISTING MAIN AT CONTRACTORS COST. 7 CLEAR DAYS NOTICE PRIOR TO THE COMMENCEMENT OF WORKS MUST BE GIVEN TO THE SUPERINTENDENT AND BARWON WATER SENIOR QUALITY AUDITOR.

ROAD NAME	GAS		WATER		ELECTRICITY		TELSTRA	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
HILLCLIMB DRIVE	SOUTH	2.10	SOUTH	2.70	NORTH	2.30	NORTH	1.70
KOMBI ROAD	EAST	2.10	EAST	2.70	WEST	2.30	WEST	1.70
CASY GROVE	EAST	2.10	EAST	2.70	WEST	2.30	WEST	1.70
ILA DRIVE	WEST	1.80	WEST	2.30	EAST	0.90	EAST	0.30
ILA DRIVE TRUNK MAIN	-	-	WEST	2.90	-	-	-	-
FAIRVISTA AVENUE (NTH OF SHOALING DRIVE)	EAST	2.10	EAST	2.70	WEST	2.30	WEST	1.70
FAIRVISTA AVENUE (Sth OF SHOALING DRIVE)	EAST	2.10	EAST	2.70	WEST	0.75	WEST	0.30
SHOALING DRIVE	SOUTH	2.10	SOUTH	2.70	NORTH	1.80	NORTH	2.30
SHOALING DRIVE TRUNK MAIN	-	-	NORTH	2.90	-	-	-	-

SURVEY CONTROL MGA 94 ZONE 55				
PM	EASTING	NORTHING	RL	DESCRIPTION
MOOLAP PM 321	27704.0	57694.80	9.436	BRASS PLAQUE IN CONCRETE
MOOLAP PM 137	278263.348	5769552.155	-	BRASS PLAQUE IN CONCRETE
MOOLAP PM 69	277138.741	5770359.313	8.503	BRASS PLAQUE IN CONCRETE
SURVEY CONTROL ARBITRARY				
PM	EASTING	NORTHING	RL	DESCRIPTION
PM69	10000.000	50000.000	8.503	BRASS PLAQUE IN CONCRETE
PM137	11124.354	49193.067	-	BRASS PLAQUE IN CONCRETE
PM321	9897.742	48994.921	9.436	BRASS PLAQUE IN CONCRETE
SURVEY CONTROL				
TBM	EASTING	NORTHING	RL	DESCRIPTION
STAR8	10252.574	48899.962	24.650	STEEL STAR PICKET
STAR202	10128.400	48684.879	20.077	STEEL STAR PICKET
STAR300	10295.365	48696.684	28.816	STEEL STAR PICKET

NEW SEWER MAINS		
SIZE	TYPE	LENGTH
150mm	PVC SNB	687

MAINTENANCE HOLE CHAMBER INFORMATION LEGEND			
MH No.	LINE No. / DOWNSTREAM INVERT	LINE No. / UPSTREAM INVERT	
F.S.L.	LINE No. / UPSTREAM INVERT	LINE No. / UPSTREAM INVERT	

WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED BY BARWON WATER

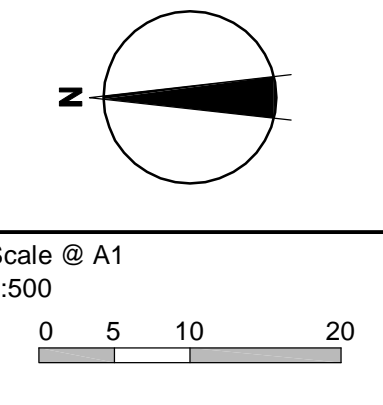
ACCEPTED BY BARWON WATER DEVELOPMENT SERVICES CO-ORDINATOR DEVELOPMENT & CONSERVATION

REVISION	DATE	DES/DF	APPD
B MINOR AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO BARWON WATER FOR APPROVAL	02.06.10	CB/CB	JG

Principal
 Leopold Property Developments Pty Ltd
 Level 1, 6 Riverside Quay
 Southbank, Victoria 3006

Construction Notes
 1. Construction of the sewer and water mains is to be in accordance with the Barwon Water standard specifications "Construction of gravity sewers and rising mains" and "Construction of water mains".
 2. Every endeavour to ensure the location of all existing services on the plan are correct. However actual locations are to be checked on site prior to commencement of excavations.
 3. Nominal size of water mains indicated in millimetres & offsets are indicated in metres.
 4. All sewer pipes are 150mm unless otherwise shown.

Designed
 C. Barker
 Drawn
 C. Barker
 Checked
 C. Birkett
 Authorised
 J. Golden
 Date
 April 2010



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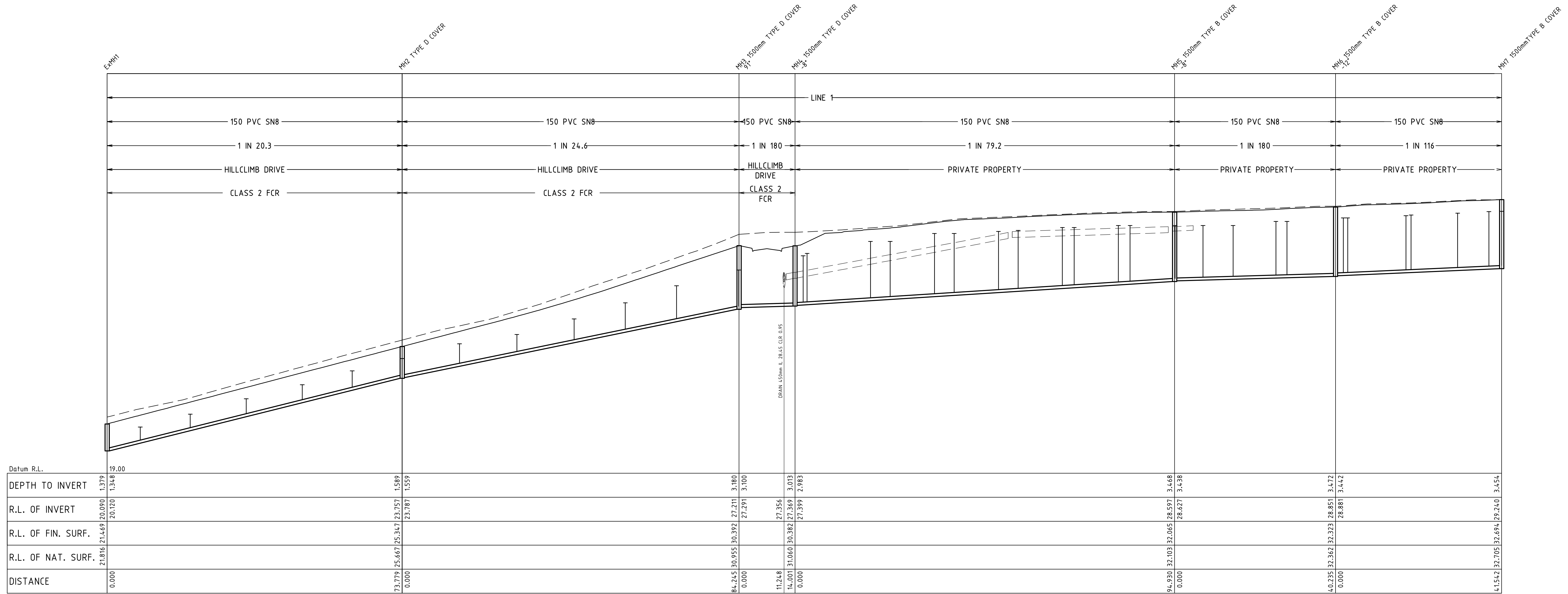
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Barwon Region Water Authority
 Barwon Water No. L006017
 Estuary
 Stage 3
 Sewer Detail Plan

Drawing No. 0250EHL-03-51 Rev B
 Sheet No. 1 of 4

Approved for Construction



NOTE
 TM SPECIAL CONNECTIONS TO BE
 CONFIGURED TO PROVIDE CLEARANCE
 TO STORMWATER

WORKS SHALL NOT COMMENCE UNTIL
 PLANS ARE SIGNED BY BARWON WATER

ACCEPTED BY BARWON WATER
 DEVELOPMENT SERVICES
 CO-ORDINATOR
 DEVELOPMENT & CONSERVATION

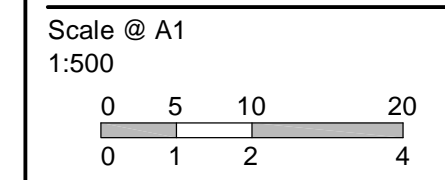
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REVISION	DATE	DES/DFT	APPD
B	14.07.10	CB/CB	JG
A	02.06.10	CB/CB	JG

Principal
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 Level 1, 6 Riverside Quay
 Southbank, Victoria 3006

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 - Nominal size of water mains indicated in millimetres & offsets are indicated in metres.
 - All sewer pipes are 1500mm unless otherwise shown.

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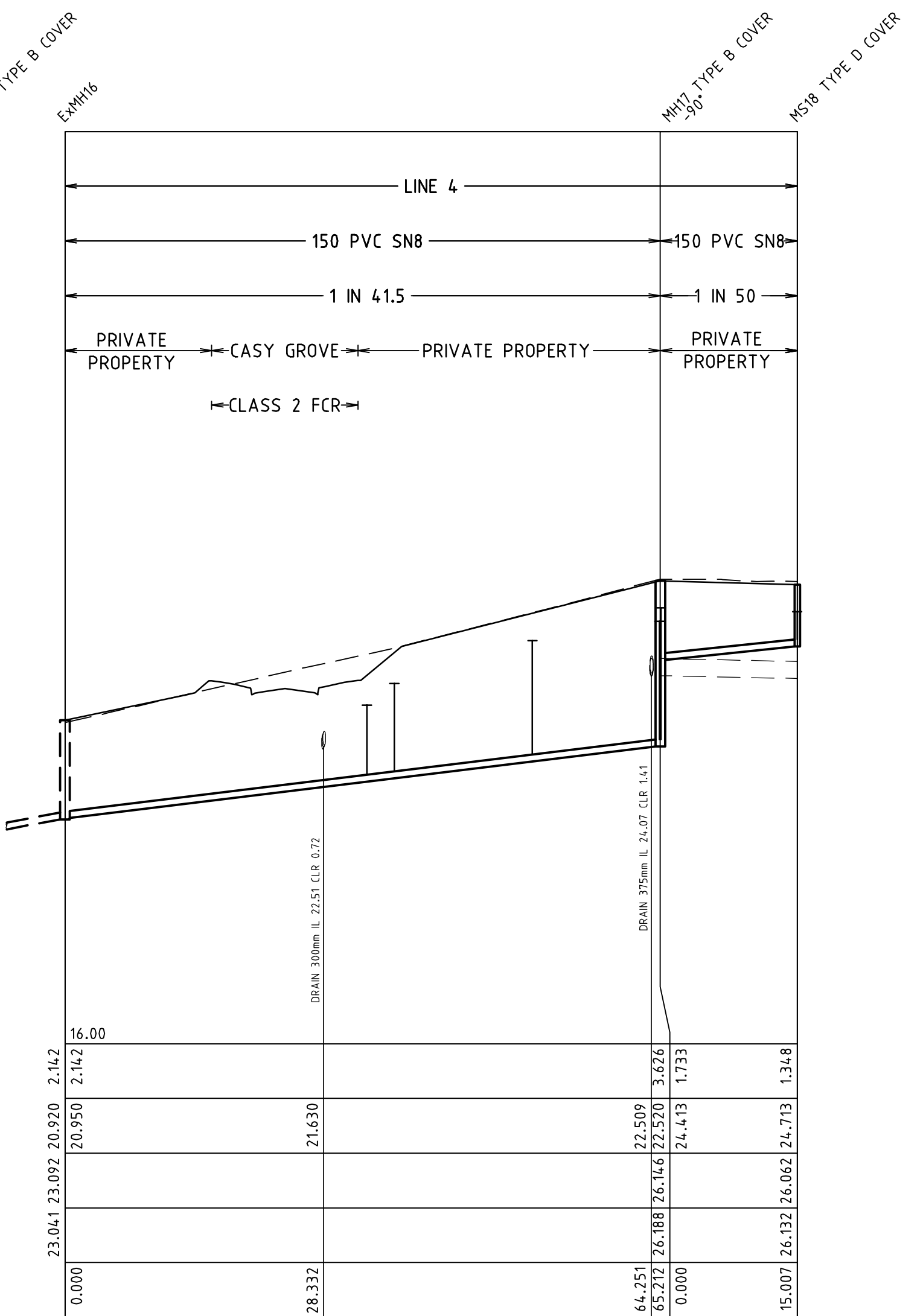
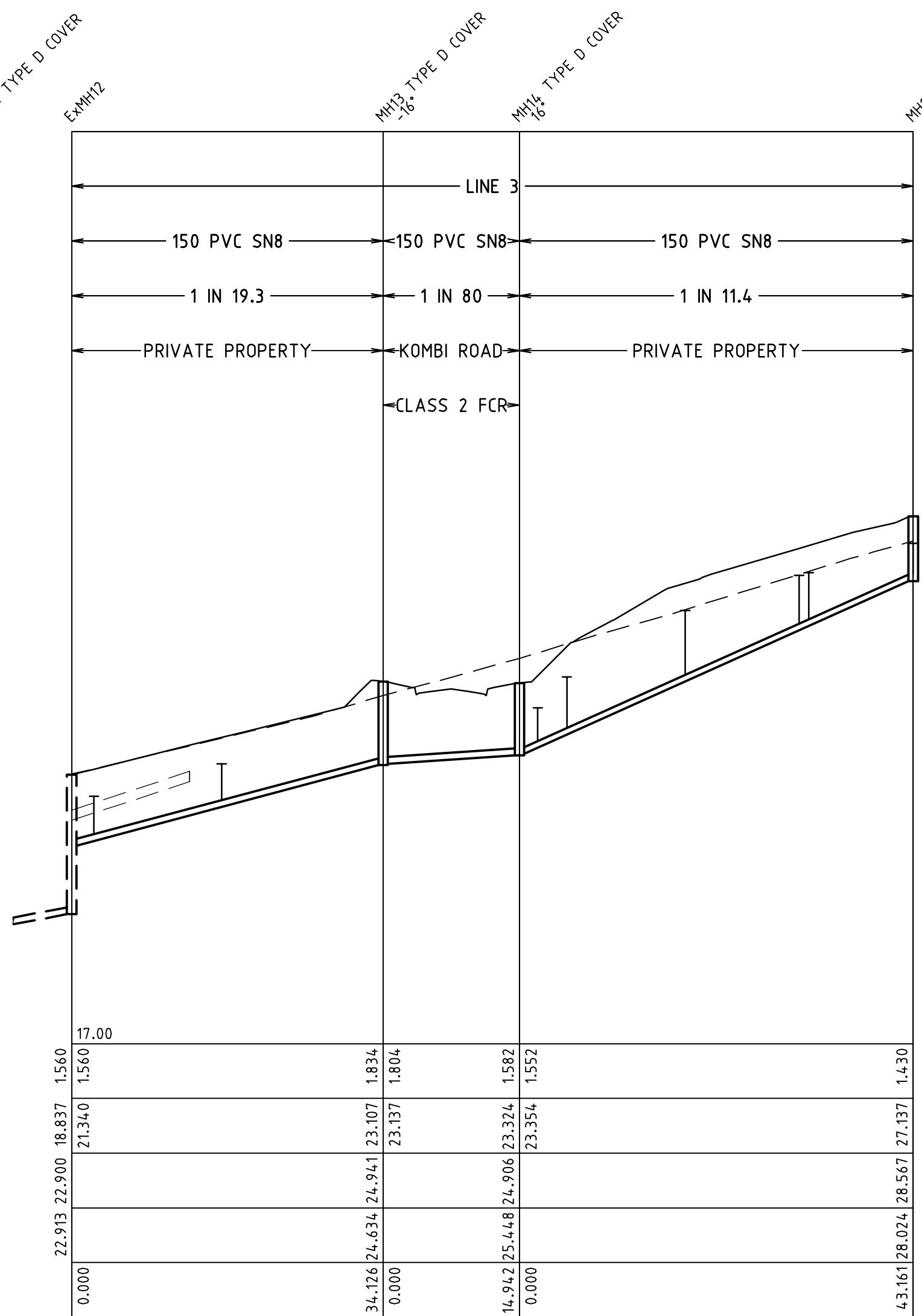
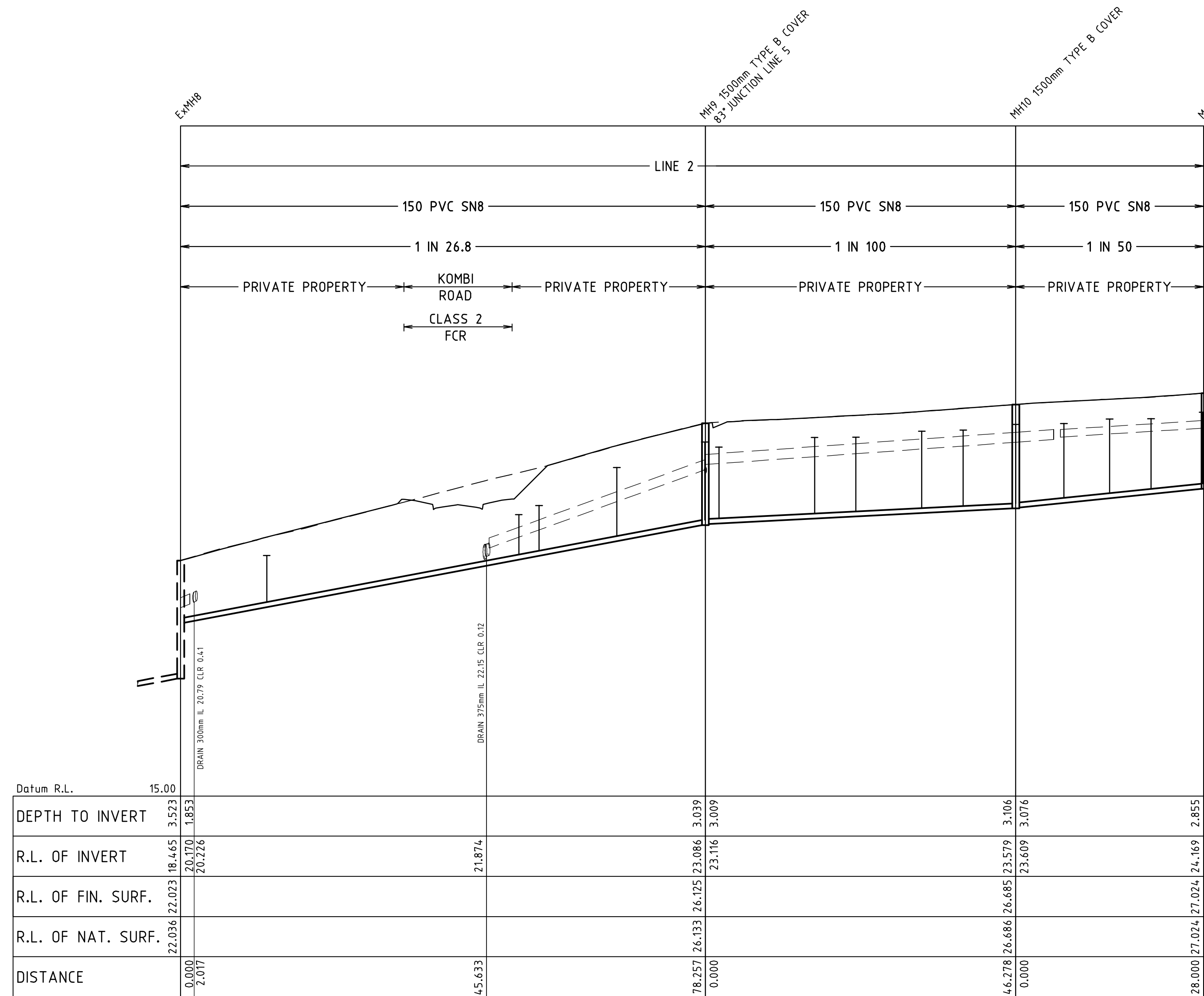
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Barwon Region Water Authority
 Barwon Water No. L006017
 Estuary
 Stage 3
 Sewer Longitudinal Sections - 1

Drawing No. **0250EHL-03-52** Rev **B**
 Sheet No. 2 of 4

Approved for Construction



WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED BY BARWON WATER

ACCEPTED BY BARWON WATER DEVELOPMENT SERVICES CO-ORDINATOR DEVELOPMENT & CONSERVATION

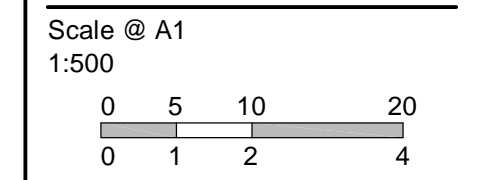
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REVISION	DATE	DES/DF	APPD
B MINOR AMENDMENTS	14.07.10	CB/CB	JG
A ISSUED TO BARWON WATER FOR APPROVAL	02.06.10	CB/CB	JG

Principal
Leopold Property Developments Pty Ltd
Level 1, 6 Riverside Quay
Southbank, Victoria 3006

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 - All sewer pipes are 150mm unless otherwise shown.

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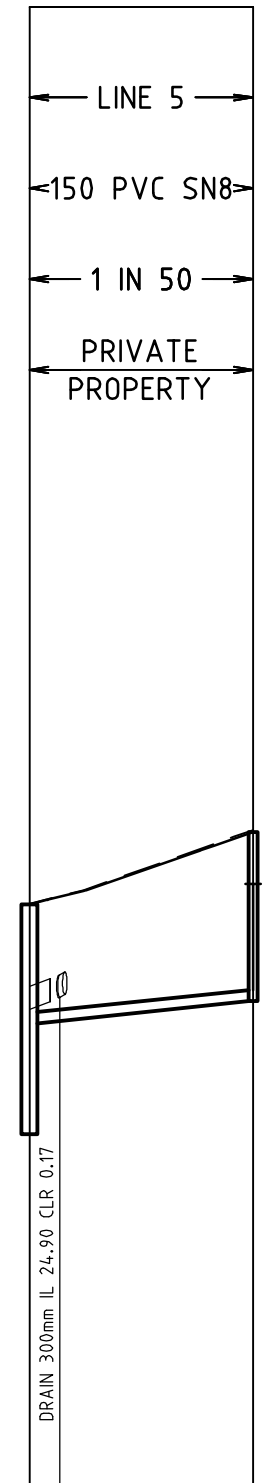
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Barwon Region Water Authority
Barwon Water No. L006017
Estuary Stage 3
Sewer Longitudinal Sections - 2

Drawing No. **0250EH-03-53** Rev B
Sheet No. 3 of 4

Approved for Construction

M59 TYPE B COVER
JUNCTION LINE 2
M59 TYPE D COVER



Datum R.L.	18.00
DEPTH TO INVERT	3.039
R.L. OF INVERT	26.125
R.L. OF FIN. SURF.	26.133
R.L. OF NAT. SURF.	26.133
DISTANCE	0.000

LINE NO.	MANHOLE NO.	HC NO.	LOT NAME	CONNECTION TYPE	CHAINAGE	IL SEWER	IL BRANCH	BRANCH HEIGHT
1	1	1	LOT 302	A SPECIAL	8.28	20.51	21.31	0.80
1	1	2	LOT 303	A SPECIAL	20.78	21.13	21.96	0.83
1	1	3	LOT 304	A SPECIAL	34.78	21.84	22.73	0.89
1	1	4	LOT 305	A SPECIAL	48.78	22.54	23.43	0.90
1	1	5	LOT 306	A SPECIAL	61.28	23.16	24.13	0.97
1	2	6	LOT 307	A SPECIAL	0.00	23.76	24.75	0.98
1	2	7	LOT 308	A SPECIAL	14.00	24.35	25.48	1.13
1	2	8	LOT 309	A	28.00	24.92	25.95	1.03
1	2	9	LOT 310	A	42.00	25.49	26.73	1.24
1	2	10	LOT 311	A	54.50	26.00	27.53	1.53
1	2	11	LOT 312	A	67.00	26.52	28.38	1.87
1	3	12	FUT LOT	A	0.00	27.21	29.18	1.96
1	4	13	LOT 352	B SPECIAL	2.02	27.42	29.89	2.47
1	4	14	FUT LOT	TM SPECIAL	3.02	27.43	30.00	2.57
1	4	15	LOT 353	B SPECIAL	18.86	27.63	30.60	2.97
1	4	16	FUT LOT	TM SPECIAL	23.79	27.70	30.60	2.90
1	4	17	LOT 354	B SPECIAL	34.86	27.84	31.00	3.16
1	4	18	FUT LOT	TM SPECIAL	39.79	27.90	31.00	3.10
1	4	19	LOT 355	B SPECIAL	50.86	28.04	31.10	3.06
1	4	20	FUT LOT	TM SPECIAL	55.79	28.10	31.15	3.05
1	4	21	LOT 356	B SPECIAL	66.86	28.25	31.30	3.05
1	4	22	FUT LOT	TM SPECIAL	69.79	28.28	31.30	3.02
1	4	23	LOT 357	B SPECIAL	80.86	28.42	31.40	2.98
1	4	24	FUT LOT	TM SPECIAL	83.79	28.46	31.40	2.94
1	5	25	LOT 358	B SPECIAL	0.00	28.60	31.40	2.80
1	5	26	FUT LOT	TM SPECIAL	7.09	28.66	31.40	2.74
1	5	27	LOT 359	B SPECIAL	14.61	28.71	31.40	2.69
1	5	28	FUT LOT	TM SPECIAL	25.32	28.77	31.60	2.83
1	5	29	LOT 360	B SPECIAL	28.08	28.78	31.60	2.82
1	6	30	LOT 361	B SPECIAL	1.94	28.89	31.78	2.89
1	6	31	FUT LOT	TM SPECIAL	3.03	28.90	31.78	2.88
1	6	32	LOT 362	B SPECIAL	17.60	29.03	31.89	2.86
1	6	33	FUT LOT	TM SPECIAL	18.90	29.04	31.93	2.88
1	6	34	LOT 363	B SPECIAL	30.54	29.15	32.02	2.87
1	6	35	FUT LOT	TM SPECIAL	38.35	29.22	32.10	2.88
1	7	36	LOT FUT	B SPECIAL	0.00	29.24	32.11	2.87
2	8	37	LOT 314	B	12.84	20.64	22.18	1.54
2	8	38	LOT 342	A Special	50.42	22.05	23.40	1.35
2	8	39	LOT 341	A	53.45	22.17	23.67	1.50
2	8	40	LOT 343	A SPECIAL	65.04	22.61	24.80	2.19
2	9	41	LOT 344	A SPECIAL	0.00	23.09	25.57	2.48
2	9	42	LOT 346	A	2.02	23.13	25.41	2.28
2	9	43	LOT 340	B	16.28	23.28	25.70	2.42
2	9	44	LOT 347	A	22.45	23.34	25.71	2.37
2	9	45	LOT 339	B	32.28	23.44	25.89	2.45
2	9	46	LOT 348	A	38.45	23.50	25.92	2.42
2	10	47	LOT 338	B	0.00	23.58	26.09	2.51
2	10	48	LOT 349	A	7.18	23.75	26.11	2.37
2	10	49	LOT 337	B	14.00	23.89	26.25	2.36
2	10	50	LOT 350	A	20.18	24.01	26.26	2.25
2	11	51	LOT 336	B	0.00	24.17	26.46	2.29
3	12	52	LOT 324	A SPECIAL	2.43	21.44	22.42	0.98
3	12	53	LOT 323	A SPECIAL	16.44	22.19	23.13	0.94
3	14	54	LOT 331	B	2.01	23.49	24.36	0.87
3	14	55	LOT 335	A SPECIAL	5.19	23.77	25.04	1.26
3	14	56	LOT 332	B	18.16	24.94	26.50	1.56
3	14	57	LOT 333	B	30.66	26.06	27.27	1.21
3	14	58	LOT 351	A SPECIAL	31.72	26.16	27.33	1.17
4	16	59	LOT 334	B	0.00	27.14	27.97	0.83
4	16	60	LOT 327	B	33.08	21.75	23.42	1.67
4	16	61	FUT LOT	A	36.08	21.82	23.89	2.07
4	16	62	LOT 328	B	51.21	22.19	24.84	2.65
4	17	63	FUT LOT	A	0.00	22.52	25.26	2.74
4	17	64	LOT 330	B	0.00	22.52	25.56	3.04
4	18	65	LOT 329	B	0.00	24.71	25.47	0.75
5	19	66	LOT 345	B	0.00	24.84	26.40	1.55

WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED BY BARWON WATER

ACCEPTED BY BARWON WATER
DEVELOPMENT SERVICES
CO-ORDINATOR
DEVELOPMENT & CONSERVATION

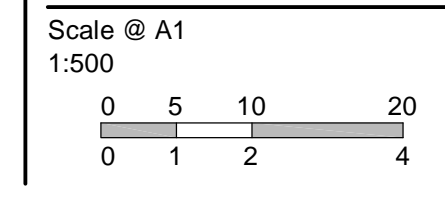
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B	MINOR AMENDMENTS	14.07.10	CB/CB	JG
A	ISSUED TO BARWON WATER FOR APPROVAL	02.06.10	CB/CB	JG
REVISION		DATE	DES/DFI	APPD

Principal
Leopold Property Developments Pty Ltd
Level 1, 6 Riverside Quay
Southbank, Victoria 3006

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 - Nominal size of water mains indicated in millimetres & offsets are indicated in metres.
 - All sewer pipes are 150mm unless otherwise shown.

Designed
C. Barker
Drawn
C. Barker
Checked
C. Birkett
Authorised
J. Golden
Date
April 2010



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ABN 99 124 236 819

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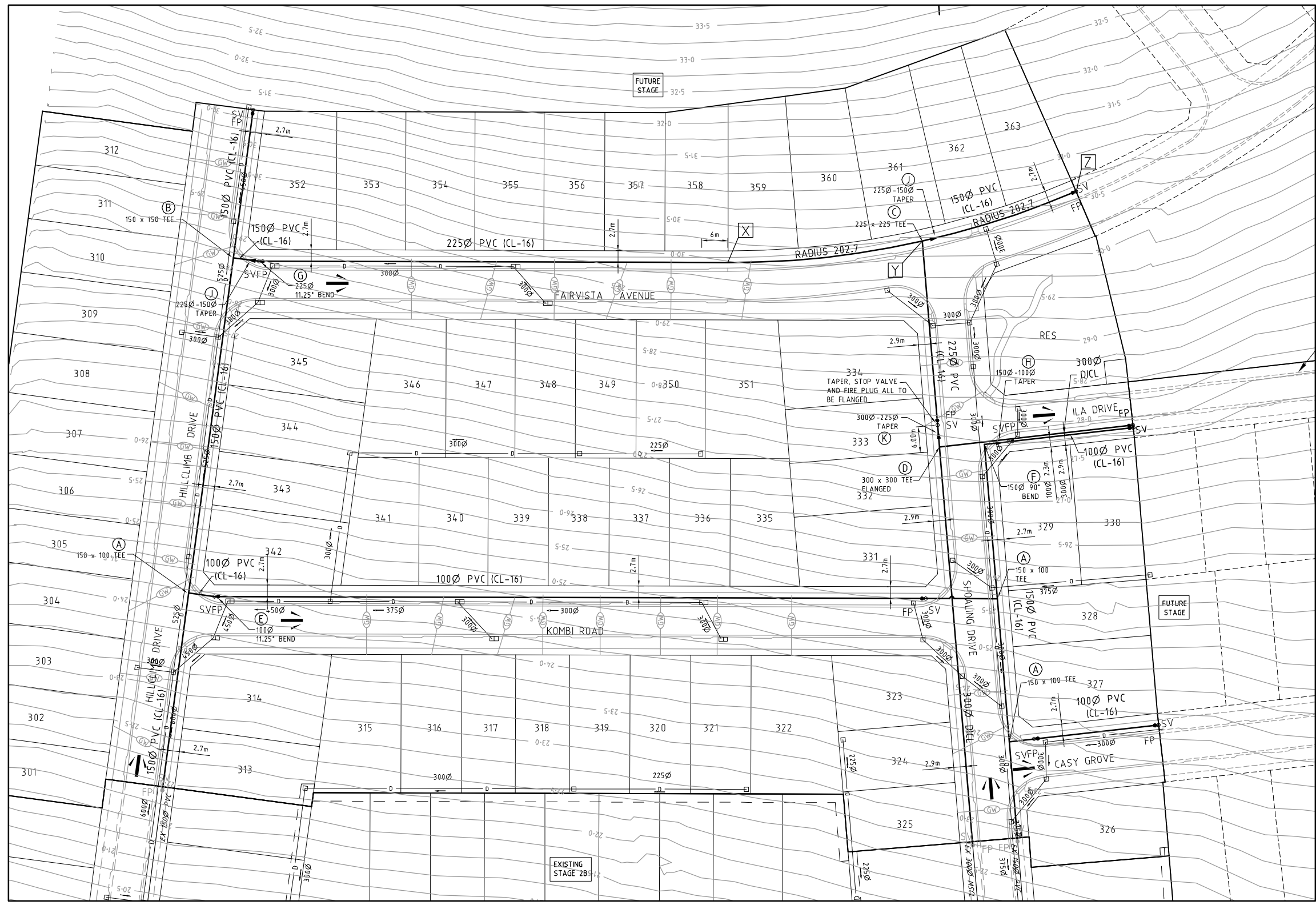
Barwon Region Water Authority
Barwon Water No. L006017
Estuary
Stage 3
Sewer Longitudinal Sections - 3

Drawing No. **0250EHL-03-54** Rev **B**
Sheet No. 4 of 4

Approved for Construction

DESIGN HEAD=114.60m AHD
TEST PRESSURE=1600kPa

- NOTES**
GENERAL
- SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE WATER SERVICES ASSOCIATION OF AUSTRALIA STANDARD CODES (WSA 02-2002 - WSA 03-2002) IN CONJUNCTION WITH BARWON WATERS SUPPLEMENTS TO THE CODES.
 - BARWON WATER AND THE PROJECT MANAGER TO BE NOTIFIED 7 CLEAR WORKING DAYS NOTICE PRIOR TO COMMENCEMENT OF WORKS.
 - THE CONTRACTOR SHALL
 - COMPLY WITH SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
 - NOTIFY THE DEPARTMENT OF LABOUR OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER. INSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
 - THE CONTRACTOR SHALL MAKE ALL WORKS AVAILABLE FOR THE INSPECTOR/SURVEYOR TO CARRY OUT THE NECESSARY INSPECTIONS AND SURVEYING BEFORE BACKFILLING IS COMMENCED.
 - SERVICES ARE APPROXIMATE ONLY. ALL RELEVANT SERVICE AUTHORITY'S ARE TO BE CONTACTED PRIOR TO THE COMMENCEMENT OF EXCAVATION TO ESTABLISH THEIR EXACT LOCATION.
 - CONTACT PRIOR TO COMMENCEMENT OF WORKS:
CITY OF GREATER GEELONG
POWERCOR
TELSTRA
TRU
VICTORIAN WORKCOVER AUTHORITY
 - ALL SERVICES ARE TO BE LOCATED ON SITE PRIOR TO ANY EXCAVATION.
 - INVERT LEVELS OF EXISTING SEWERS AND WATERMANS TO BE CHECKED PRIOR TO THE COMMENCEMENT OF WORKS.
 - CLASS 2 BACKFILL TO BE USED UNDER DRIVEWAYS FOR WATER AND SEWER RETICULATION.
 - PROPERTY OWNERS ARE TO BE NOTIFIED IN WRITING BY THE CONSULTANT 14 CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS
 - COPY OF CADASTRAL MAP GRID (MGA) CONNECTION & COPY OF AUSTRALIAN HEIGHT DATUM (AHD) CONNECTION IS TO BE PROVIDED BY CONTRACTOR
 - WORKS SHALL BE EFFECTED BETWEEN THE HOURS OF 8.00am AND 5.00pm MONDAY - FRIDAY. IN THE EVENT THAT WORKS ARE TO BE EFFECTED OUTSIDE THESE WORKING HOURS, A LETTER REQUESTING APPROVAL FOR SUCH OUT OF HOURS WORK SHALL BE LODGED TO THE SENIOR QUALITY AUDITOR.
 - THE CONTRACTOR SHALL COMPLY WITH SAFETY REQUIREMENTS RELATING TO WORKING NEAR POWER LINES AS SET BY THE CHIEF ELECTRICAL INSPECTOR WHERE NECESSARY AN ACCREDITED TRAINED SPOTTER IS TO BE PROVIDED.
 - WATER RESTRICTIONS ARE TO APPLY FROM MIDNIGHT JUNE 30th 2006, IN ACCORDANCE WITH BY-LAW NO. 187. ONLY TRIGGER HOSES (MAXIMUM SIZE 25mm) MAY BE USED FOR CONSTRUCTION WORK NOT INCLUDING TRENCHING, UNLESS OTHERWISE EXEMPTED BY THE AUTHORITY IN WRITING. MECHANICAL COMPACTION IS TO BE USED IN ACCORDANCE WITH MRWA SPECIFICATION 04-03 FOR TRENCH WORKS UNTIL FURTHER NOTICE. ANY WATER USED TO FLUSH WATER MAINS IS TO BE RECLAIMED AND USED FOR CONSTRUCTION PURPOSES.
- WATER**
- ENSURE WATERMANS ARE GRADED TO SUFFICIENT DEPTH UNDER ROADWAYS TO OBTAIN REQUIRED CLEARANCE UNDER STORM WATER DRAINS AND PAVEMENT LEVELS.
 - MARKER POSTS TO BE PLACED AT FIRE PLUGS. FIRE PLUG INDICATORS ARE TO BE IN ACCORDANCE WITH CFA & WSA REQUIREMENTS.
 - ALL ALLOTMENTS ARE TO BE PROVIDED WITH A WATER SERVICE AS PART OF WATER RETICULATION WORKS. THE WATER MAIN IS TO BE TAPPED USING A TAPPING SADDLE AND PRESSURE FERRULE (FERRULE TO BE LEFT OPEN). A MINIMUM SIZE SERVICE (i.e. 20mm COPPER, 25mm PE) IS THEN TO BE EXTENDED TO A POINT 500mm WITHIN THE PROPERTY. THE SERVICE IS TO BE A CONTINUOUS LENGTH WITH NO JOINTS. IN THE CASE OF PE OR ANY OTHER NON-METALLIC SERVICE BEING INSTALLED, A COPPER TRACE WIRE IS TO BE INCORPORATED. A BURIED BALL VALVE IS TO BE PLACED AT THE END OF THE SERVICE AND BACKFILLED WITH SAND TO DESIGN SURFACE LEVEL. DETECTOR TAPE FROM BALL VALVE TO BE RUN TO SURFACE LEVEL.
 - PE PIPE TO BE LAID IN ACCORDANCE WITH WSA-01 WITH LONG RADIUS BENDS OR DEFLECTION ONLY. NO COMPRESSION BENDS TO BE USED.
- AC PIPE NOTE**
- ANY WORK INVOLVING THE REMOVAL (CUTTING AND HANDLING), STORAGE, TRANSPORTATION AND DISPOSAL OF WASTE ASBESTOS CEMENT (AC) PIPES MUST BE CARRIED OUT IN ACCORDANCE WITH THE OCCUPATIONAL, HEALTH AND SAFETY (ASBESTOS) REGULATIONS 1992 AND RELEVANT CODES OF PRACTICE (REMOVAL), THE ENVIRONMENT PROTECTION (PRESERVED WASTE) REGULATIONS 1998 (STORAGE, TRANSPORTATION AND DISPOSAL), AND BARWON WATER'S SAFETY MANAGEMENT SYSTEM "SAFEAS".
- FITZROY BOXES ARE TO BE PLACED OVER MONT TAP (MT) OR ANY TAPPING LOCATED WITHIN THE ROAD PAVEMENT.
 - THRUST BLOCKS ARE TO BE CONSTRUCTED AS PER BARWON WATER STANDARD DRAWING No'S 70104, 70105 AND 70106
 - SWABBING OF WATER MAINS IS TO BE DONE IN ACCORDANCE WITH SECTION 6.7 AND SECTION 18 OF WSA WATER SUPPLY CODE OF AUSTRALIA WSA 03-2002 MRWA EDITION 1
 - ALL WATER MAINS MUST BE HYDROSTATIC PRESSURE TESTED IN ACCORDANCE WITH SECTION 19.4 OF WSA WATER SUPPLY CODE OF AUSTRALIA WSA 03-2002 MRWA EDITION 1.0. THE CONTRACTOR MUST BE GIVE BARWON WATER THREE WORKING DAYS NOTICE IN WRITING OF THE DATE AND TIME OF THE PROPOSED HYDROSTATIC PRESSURE TESTING TO ENSURE THAT BARWON WATER HAS THE OPPORTUNITY TO WITNESS THESE TESTS.
- SPECIAL**
- TRENCH COMPACTION RESULTS TO BE SUBMITTED BY CONSULTANT WITH 'AS CONSTRUCTED' NOTES.



WARNING
BEWARE OF UNDERGROUND SERVICES
The locations of underground services are approximate only and their exact position should be proven on site.
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Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
www.1100.com.au

LEGEND - WATER PLAN		PIPE TYPES	
□	STORMWATER DRAIN & PIT	AC	ASBESTOS CEMENT
—	WATER MAIN	CICL	CAST IRON CEMENT LINED
—	CHANGE OF PIPE SIZE	DICL	DUCTILE CEMENT LINED
—	MAINS NOT CONNECTED	MSCL	MILD STEEL CEMENT LINED
—	MAINS IN CONDUIT	PVC	POLYETHYLENE (AS SPECIFIED)
○	VALVE	RC	REINFORCED CONCRETE
○	NON RETURN VALVE	VC	VITREOUS CLAY
●	FIRE PLUG		
○	DEAD END CAP		
—	EXISTING ELECTRICITY (UNDERGROUND)		
—	EXISTING ELECTRICITY (OVERHEAD)		
—	EXISTING GAS		
—	EXISTING TELSTRA		
—	EXISTING WATER		
—	EXISTING STORMWATER DRAIN		
—	EXISTING SURFACE LEVEL		
—	FINISHED BUILDING LINE LEVEL		
—	FINISHED RIDGE LINE LEVEL		
—	TEMPORARY BENCH MARK		
—	SWAB DIRECTION		

CURVE	RADIUS (m)	PIPE LENGTH (m)	NUMBER OF PIPES	NUMBER OF 1' DEFLECTIONS	No. SOC-CONNECTIONS	BEND REQ'D 11.25°	BEND REQ'D 22.5°	BEND REQ'D 45°
X - Y	202.7	5.70	8	7	2	-	-	-
Y - Z	202.7	5.35	7	6	2	-	-	-

WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED BY BARWON WATER
ACCEPTED BY BARWON WATER DEVELOPMENT SERVICES CO-ORDINATOR DEVELOPMENT & CONSERVATION

REVISION	DATE	DESIGN	APPD
C	28.10.10	CB/CB	JG
B	14.07.10	CB	JG
A	03.06.10	MW/MW	JG

Principal
Leopold Property Developments Pty Ltd
Level 1, 6 Riverside Quay
Southbank, Victoria 3006

Construction Notes
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2. Every endeavour to ensure the location of all existing services on the plan are correct. However actual locations are to be checked on site prior to commencement of excavations.
3. Nominal size of water mains indicated in millimetres & offsets are indicated in metres.
4. All sewer pipes are 1500mm unless otherwise shown.

Designed
M. Wilks
Drawn
M. Wilks
Checked
C. Birkett
Authorised
J. Golden
Date
April 2010

Scale @ A1
1:500
0 5 10 20

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Barwon Region Water Authority
Barwon Water No. L006017
Estuary
Stage 3
Water Detail Plan

Drawing No. 0250EHL-03-61 Rev C
Sheet No. 1 of 2

Approved for Construction

NEW WATER MAINS		
SIZE	TYPE	LENGTH
100Ø	PVC (CLASS - 16)	252.00
150Ø	PVC (CLASS - 16)	293.70
225Ø	PVC (CLASS - 16)	201.65
300Ø	DICL (PN35)	140.60

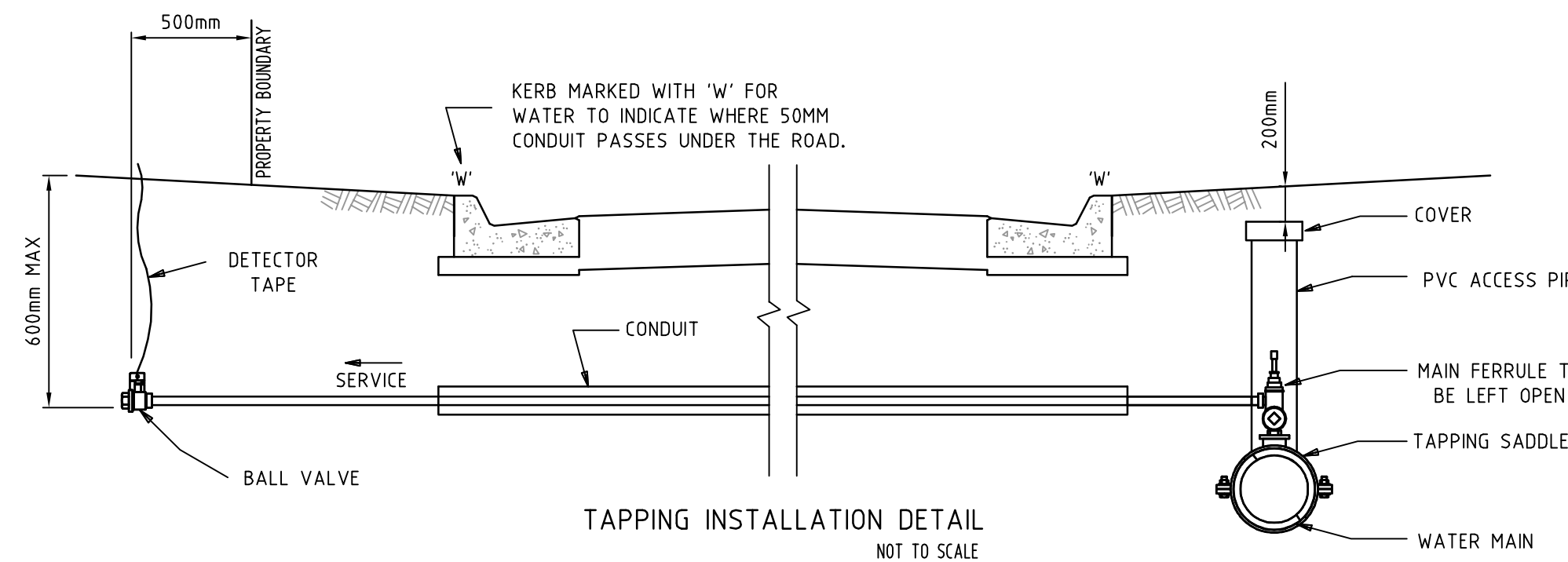
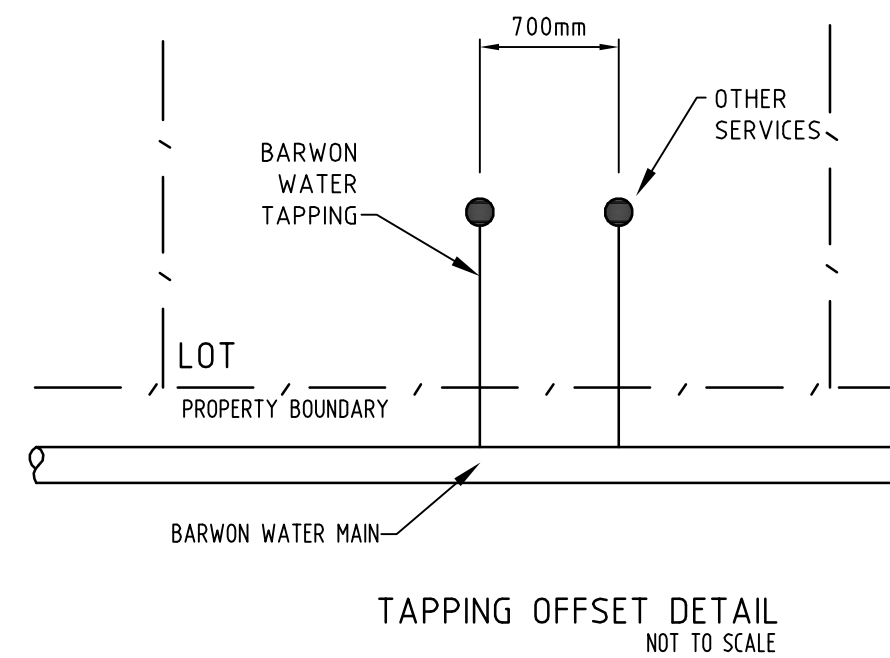
THRUST RESTRAINT SCHEDULE				
LOCATION	TYPE	AREA (m ²)	NUMBER	
A 150Ø x 100Ø TEE	CONCRETE	0.8	3	
B 150Ø x 150Ø TEE	CONCRETE	0.8	1	
C 225Ø x 225Ø TEE	CONCRETE	1.70	1	
D 300Ø x 300Ø TEE	CONCRETE	2.99	1	
E 100Ø 11.25° BEND	CONCRETE	-	1	
F 150Ø 90° BEND	CONCRETE	1.12	1	
G 225Ø 11.25° BEND	CONCRETE	0.34	1	
H 150Ø - 100Ø TAPER	CONCRETE	0.42	1	
J 225Ø - 150Ø TAPER	CONCRETE	0.90	2	
K 300Ø - 225Ø TAPER	CONCRETE	1.30	1	

SURVEY CONTROL MGA 94, ZONE 55					
PM	EASTING	NORTHING	RL	DESCRIPTION	PARISH
MOOLAP PM 321	277040	5769480	9.436	BRASS PLAQUE IN CONCRETE	MOOLAP
MOOLAP PM 137	278263.348	5769552.155	-	BRASS PLAQUE IN CONCRETE	MOOLAP
MOOLAP PM 69	277138.741	5770359.313	8.503	BRASS PLAQUE IN CONCRETE	MOOLAP

SURVEY CONTROL ARBITRARY					
PM	EASTING	NORTHING	RL	DESCRIPTION	PARISH
PM69	10000.000	50000.000	8.503	BRASS PLAQUE IN CONCRETE	MOOLAP
PM137	11124.354	49193.067	-	BRASS PLAQUE IN CONCRETE	MOOLAP
PM321	9897.742	48994.921	9.436	BRASS PLAQUE IN CONCRETE	MOOLAP

SURVEY CONTROL					
TBM	EASTING	NORTHING	RL	DESCRIPTION	PARISH
STAR8	10252.574	48899.962	24.650	STEEL STAR PICKET	MOOLAP
STAR202	10128.400	48684.879	20.077	STEEL STAR PICKET	MOOLAP
STAR300	10295.365	48696.684	28.816	STEEL STAR PICKET	MOOLAP

ROAD NAME	SERVICES OFFSET SCHEDULE							
	GAS		WATER		ELECTRICITY		TELSTRA	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
HILLCLIMB DRIVE	SOUTH	2.10	SOUTH	2.70	NORTH	2.30	NORTH	1.70
KOMBI ROAD	EAST	2.10	EAST	2.70	WEST	2.30	WEST	1.70
CASY GROVE	EAST	2.10	EAST	2.70	WEST	2.30	WEST	1.70
ILA DRIVE	WEST	1.80	WEST	2.30	EAST	0.90	EAST	0.30
ILA DRIVE TRUNK MAIN	-	-	WEST	2.90	-	-	-	-
FAIRVISTA AVENUE (NTH OF SHOALING DRIVE)	EAST	2.10	EAST	2.70	WEST	2.30	WEST	1.70
FAIRVISTA AVENUE (STH OF SHOALING DRIVE)	EAST	2.10	EAST	2.70	WEST	0.75	WEST	0.30
SHOALING DRIVE	SOUTH	2.10	SOUTH	2.70	NORTH	1.80	NORTH	2.30
SHOALING DRIVE TRUNK MAIN	-	-	NORTH	2.90	-	-	-	-



- ALL LOTS ARE TO BE TAPPED USING A TAPPING SADDLE AND PRESSURE FERRULE.
- A MINIMUM SIZE SERVICE (IE 20MM COPPER, 25MM PE) IS THEN TO BE EXTENDED TO A POINT 500MM WITHIN THE PROPERTY.
- SERVICE PIPE BETWEEN MAIN FERRULE AND BALL VALVE TO BE A CONTINUOUS LENGTH (IE NO JOINS)
- SERVICE TO BE TYPE 'B' COPPER OR CLASS 12 TYPE 50 PE.
- IN THE CASE OF PE OR ANY OTHER NON-METALLIC SERVICE BEING INSTALLED, A COPPER TRACE WIRE IS TO BE INCORPORATED.
- A BURIED BALL VALVE IS TO BE PLACED AT THE END OF THE SERVICE.
- DETECTOR TAPE IS TO BE RUN TO SURFACE LEVEL.
- BALL VALVE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARDS (IE STAMPED 'W') BRASS FITTING WITH STAINLESS STEEL BALL.

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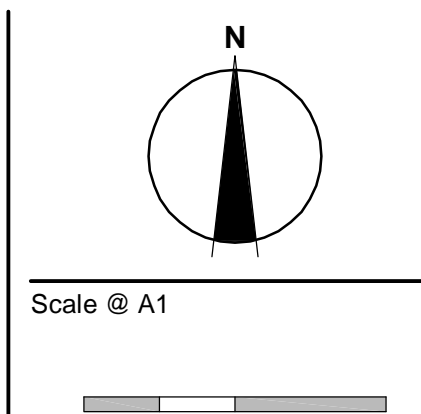
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REVISION	DATE	DES/DF	APPD
B MINOR AMENDMENTS	14.07.10	CB	JG
A ISSUED TO BARWON WATER FOR APPROVAL	03.06.10	MW/MW	JG

Principal
 Leopold Property Developments Pty Ltd
 Level 1, 6 Riverside Quay
 Southbank, Victoria 3006

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Barwon Region Water Authority
 Barwon Water No. L006017
 Estuary
 Stage 3
 Water Detail Plan

Drawing No. 0250EHL-03-62 **Rev B**
 Sheet No. 2 of 2

Approved for Construction