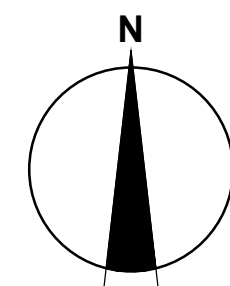
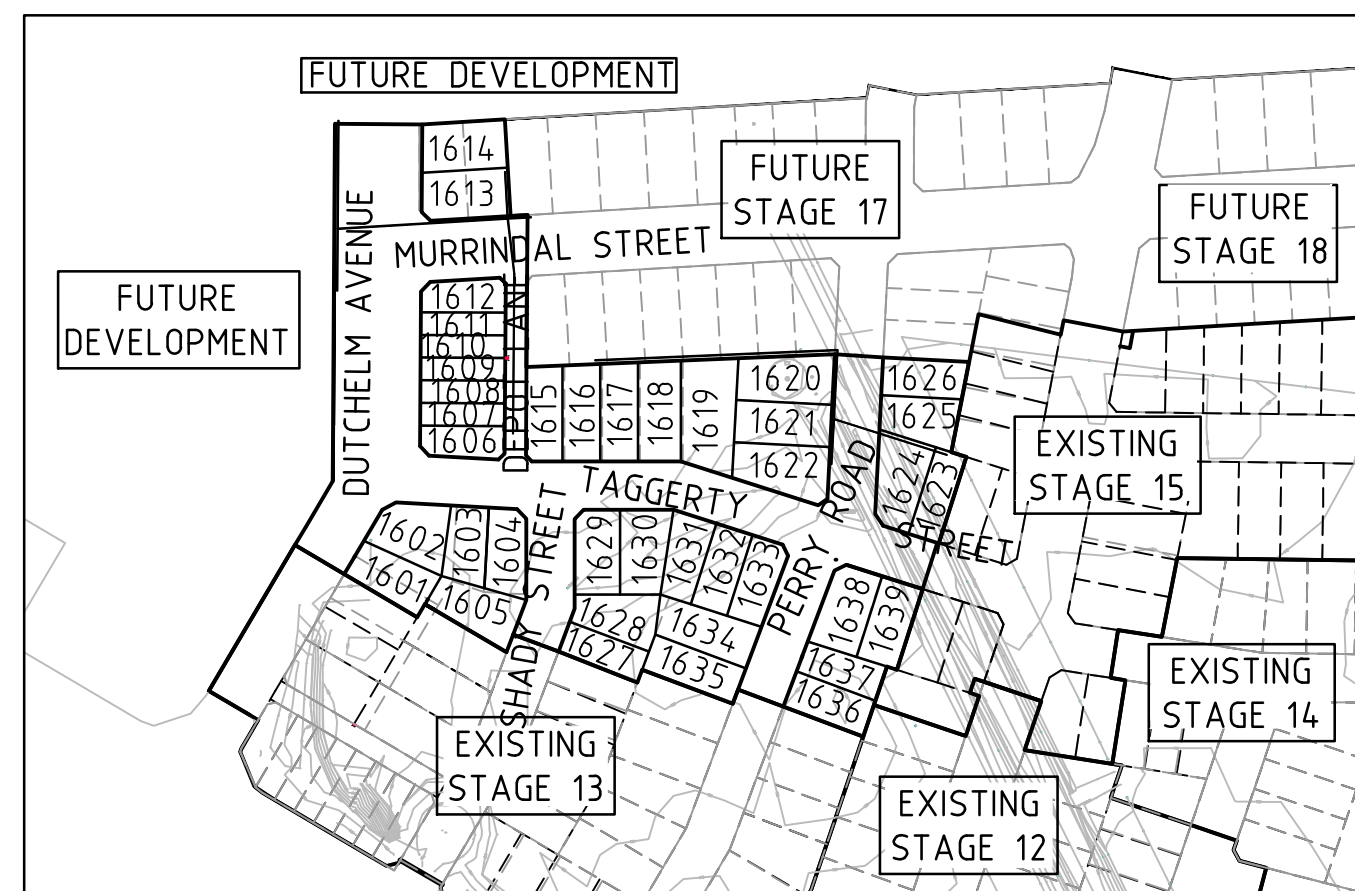


# River Walk

## Stage 16

### Wyndham City Council



**LOCALITY PLAN**  
MELWAYS REF: 205 F12



**Principal**  
Development Victoria  
710 Collins Street  
Docklands, VIC - 3008

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- 1932E-16-01 Cover Plan
- 1932E-16-02 Layout Plan
- 1932E-16-03 Intersection Detail Plan
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- 1932E-16-12 Longitudinal Sections - 4
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- 1932E-16-15 Cross Sections: Taggerty Street : Ch 153.692 - Ch 217.091
- 1932E-16-16 Cross Sections: Perry Street (South of Taggerty Street)
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- 1932E-16-19 Cross Sections: Depot Lane
- 1932E-16-20 Cross Sections: Dutchelm Avenue : Ch 87.014 - Ch 103.746
- 1932E-16-21 Cross Sections: Dutchelm Avenue : Ch 129.006 - Ch 157.251
- 1932E-16-22 Cross Sections: Dutchelm Avenue : Ch 164.751 - Ch 204.963
- 1932E-16-23 Cross Sections: Dutchelm Avenue : Ch 218.337 - Ch 234.325
- 1932E-16-24 Cross Sections: Murrindal Street
- 1932E-16-25 Drainage Longitudinal Sections - 1
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- 1932E-16-28 General Notes & Details 1
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- 1932E-16-31 Melbourne Water Standard Drawing 7251/08/408 Junction Pits Sheet 1
- 1932E-16-32 Melbourne Water Standard Drawing 7251/08/409 Junction Pits Sheet 2
- 1932E-16-85 Safety in Design



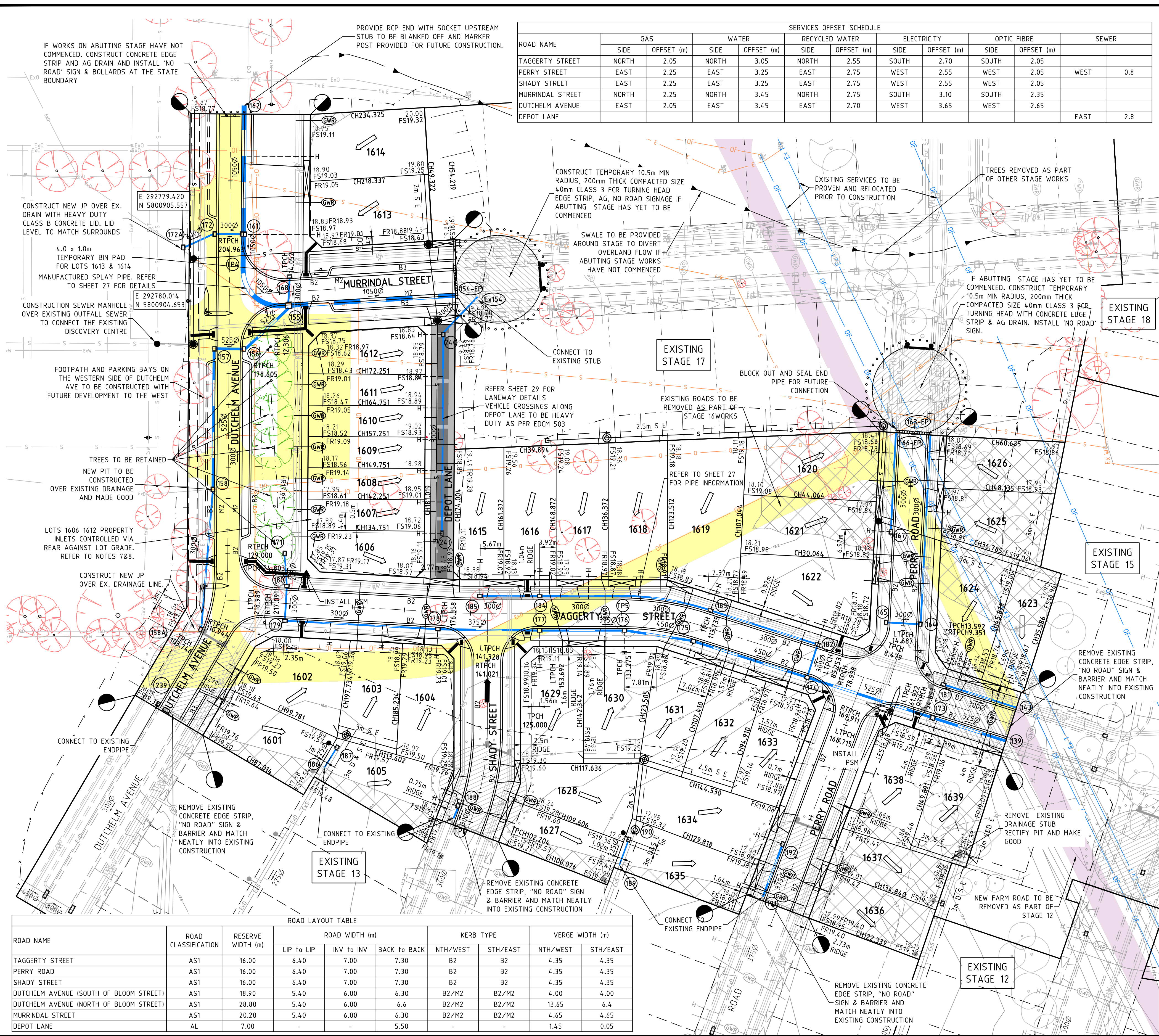
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Melbourne, VIC, 3004  
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A.B.N. 47 065 475 149

**AS CONSTRUCTED PLANS**  
THE PURPOSE OF THESE AS-CONSTRUCTED PLANS IS TO UPDATE THE DESIGN DRAWINGS TO SHOW SIGNIFICANT CHANGES WHICH OCCURRED DURING CONSTRUCTION. NOTE THAT THE LEVELS SHOWN ON THESE PLANS ARE DESIGN LEVELS, AND HAVE NOT BEEN VERIFIED BY SURVEY. ALL INFORMATION SHOWN ON THESE PLANS SHOULD BE VERIFIED ON SITE.  
SMC ACCEPT NO RESPONSIBILITY FOR LOSS OR DAMAGES RESULTING FROM THE INAPPROPRIATE USAGE OF THESE PLANS.

**WARNING**  
**SAFETY MEASURES REQUIRED**  
Please note there are risks attached to the construction of this project, and any ongoing maintenance of structures. Consider the safety of all. For potential risks, consequences and controls refer to Safety In Design Risk Register SID P4.E6. 1932E-16-85  
**ASSESS THE RISK - STAY SAFE**



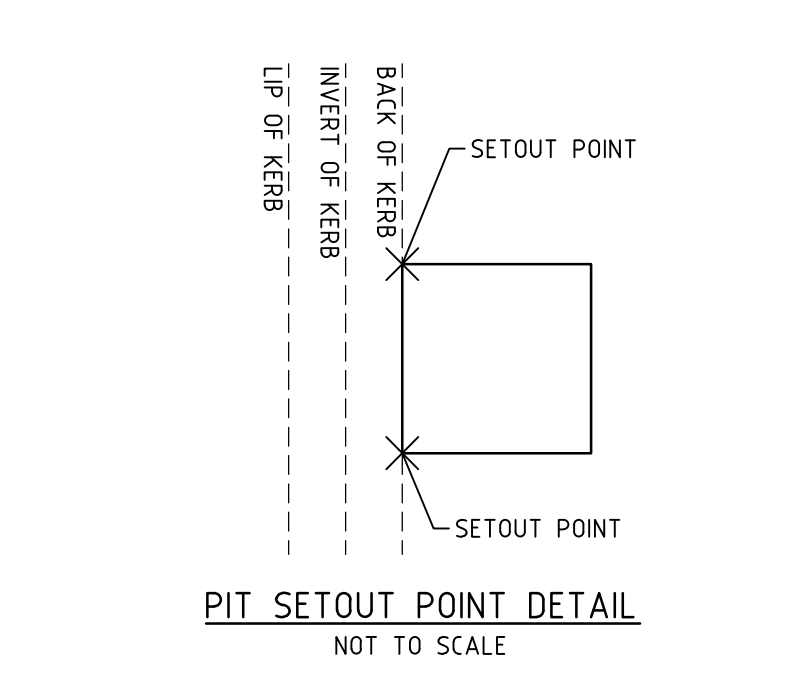
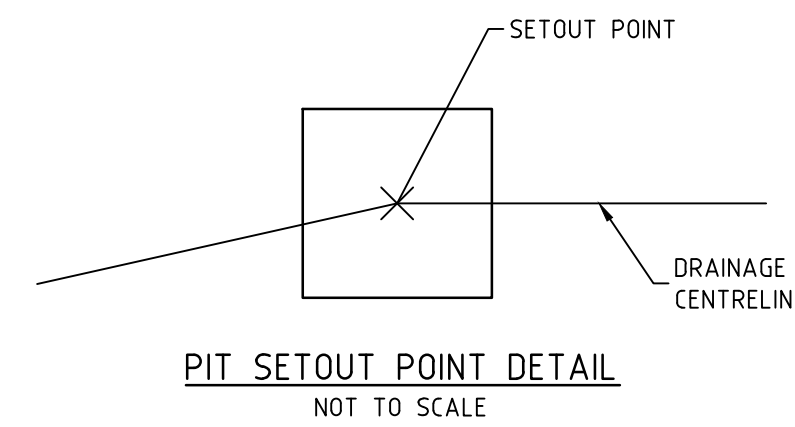


ROAD NAME	GAS		WATER		RECYCLED WATER		ELECTRICITY		OPTIC FIBRE		SEWER
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	
TAGGERTY STREET	NORTH	2.05	NORTH	3.05	NORTH	2.55	SOUTH	2.70	SOUTH	2.05	
PERRY STREET	EAST	2.25	EAST	3.25	EAST	2.75	WEST	2.55	WEST	2.05	WEST 0.8
SHADY STREET	EAST	2.25	EAST	3.25	EAST	2.75	WEST	2.55	WEST	2.05	
MURRINDAL STREET	NORTH	2.25	NORTH	3.45	NORTH	2.75	SOUTH	3.10	SOUTH	2.35	
DUTCHELM AVENUE	EAST	2.05	EAST	3.45	EAST	2.70	WEST	3.65	WEST	2.65	EAST 2.8
DEPOT LANE											

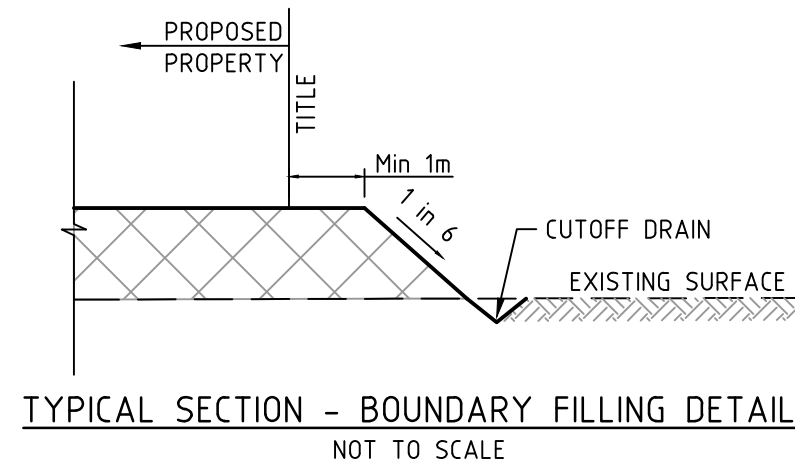
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**LEGEND - LAYOUT PLAN**

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- ELECTRICITY (U.GROUND) (INDICATIVE ONLY)
- ELECTRICITY (O.HEAD) (INDICATIVE ONLY)
- GAS (INDICATIVE ONLY)
- TELSTRA (INDICATIVE ONLY)
- WATER (INDICATIVE ONLY)
- RECYCLED WATER (INDICATIVE ONLY)
- AG. DRAIN (INDICATIVE ONLY)
- OPTIC FIBRE (INDICATIVE ONLY)
- SERVICE CONDUITS
- TACTILE PAVERS
- EXISTING ELECTRICITY (UNDERGROUND) (INDICATIVE ONLY)
- EXISTING ELECTRICITY (OVERHEAD) (INDICATIVE ONLY)
- EXISTING GAS (INDICATIVE ONLY)
- EXISTING TELSTRA (INDICATIVE ONLY)
- EXISTING OPTIC FIBRE (INDICATIVE ONLY)
- EXISTING WATER (INDICATIVE ONLY)
- EXISTING RECYCLED WATER (INDICATIVE ONLY)
- EXISTING STORMWATER DRAIN (INDICATIVE ONLY)
- EXISTING SEWER (INDICATIVE ONLY)
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- FUTURE AG DRAIN (INDICATIVE ONLY)
- FUTURE ELECTRICITY (UNDERGROUND) (INDICATIVE ONLY)
- FUTURE ELECTRICITY (OVERHEAD) (INDICATIVE ONLY)
- FUTURE GAS (INDICATIVE ONLY)
- FUTURE TELSTRA (INDICATIVE ONLY)
- FUTURE OPTIC FIBRE (INDICATIVE ONLY)
- FUTURE WATER (INDICATIVE ONLY)
- FUTURE RECYCLED WATER (INDICATIVE ONLY)
- FUTURE STORMWATER DRAIN (INDICATIVE ONLY)
- FUTURE SEWER (INDICATIVE ONLY)
- FUTURE HOUSE 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
- EXISTING TREE TO BE RETAINED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY
- EXISTING GAS (REFER TO DEMOLITION PLAN)
- EXISTING TELSTRA (REFER TO DEMOLITION PLAN)
- EXISTING OPTIC FIBRE (REFER TO DEMOLITION PLAN)
- EXISTING WATER (REFER TO DEMOLITION PLAN)
- EXISTING ELECTRICITY (REFER TO DEMOLITION PLAN)
- EXISTING STORMWATER DRAIN (REFER TO DEMOLITION PLAN)
- EXISTING SEWER (REFER TO DEMOLITION PLAN)
- EXISTING ROAD TO BE REMOVED AS PART OF STAGE 16
- EXISTING ROAD TO BE REMOVED AS PART OF OTHER STAGE



SERVICE LOCATIONS ARE IN ACCORDANCE WITH APPENDIX H OF THE MPA GUIDELINES AND THE DETAIL PLAN. **SHOULD NOT BE RELIED UPON FOR THE ACCURATE POSITIONING OF DRAINAGE LINES GREATER THAN 450dia. BEHIND BACK OF KERB.** PIPES GREATER THAN 450dia. WILL BE HAUNCHED UNDERNEATH KERB AND CHANNEL WHERE APPLICABLE TO ENSURE THAT PIT WIDTH BEHIND BACK OF KERB DOES NOT EXCEED 0.9m.



**WARNING**  
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**NOTES:**

- REFER TO DWG 1932E-16-30 FOR DEMOLITION PLAN, INCLUDING INFORMATION REGARDING EXISTING SERVICES. SERVICES TO BE ABANDONED OR REMOVED BASED TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY AND DISCRETION OF THE OWNER OF EACH ASSET. ALL REQUIREMENTS AND DOCUMENTATION TO BE LODGED. ALL ABANDONED SERVICES TO HAVE MINIMUM 450mm COVER. ANY ASSET WITH LESS THAN MINIMUM COVER WILL REQUIRE REMOVAL.
- EXCLUDING THE 6 EXISTING TREES IN DUTCHELM AVENUE ALL OTHER EXISTING TREES & EXISTING SERVICES WITHIN THE BOUNDARY OF THIS STAGE NOT REQUIRED AS PART OF THESE WORKS WILL BE NEED TO BE REMOVED OR RELOCATED. (TREES IN GROWN SHOWN ALONG DUTCHELM AVENUE TO REMAIN. PROTECTION MEASURES IN ACCORDANCE WITH THE ARBORIST REPORT MUST BE ADHERED TO.)
- REFER TO SHEET 28 FOR TYPICAL PARKING BAY DETAILS.
- ALL CURVED PIPES TO BE ACHIEVED BY USING MELBOURNE WATER STANDARD STD 7251/8/308 CONCRETE MAKE UP JOINTS ON CURVED PIPELINES.
- SURROUNDING BATTERS, TEMPORARY DRAINAGE & SWALES ONLY TO BE CONSTRUCTED IF FUTURE STAGES HAVE NOT COMMENCED.
- ALL PROPERTY CONNECTIONS FOR FUTURE LOTS TO BE BOARDED UP AND MARKER POSTS.
- PROPERTY INLETS FOR LOTS 1606 & 1607 TO BE TYPE C (REFER TO EDCM703) AT 1 IN 60 GRADE TO AVOID SERVICES. REFER TO LONG SECTION FOR INVERT LEVELS (SHEETS 25 & 26)
- PROPERTY INLETS FOR LOTS 1608 - 1612 TO BE TYPE D (REFER TO EDCM704) AT 1 IN 60 GRADE TO AVOID SERVICES. REFER TO LONG SECTION FOR INVERT LEVELS (SHEET 25)
- TEMPORARY CUTOFF DRAINS NEED TO BE FILLED IN AS PART OF WORKS. THEY ARE TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED TO LEVEL 1 SPECIFICATION TO SATISFACTION OF THE SUPERINTENDENT.

**ROAD LAYOUT TABLE**

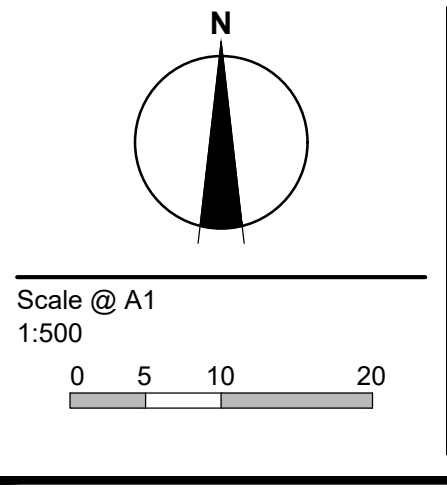
ROAD NAME	ROAD CLASSIFICATION	RESERVE WIDTH (m)	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
			LIP to LIP	INV to INV	BACK to BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
TAGGERTY STREET	AS1	16.00	6.40	7.00	7.30	B2	B2	4.35	4.35
PERRY ROAD	AS1	16.00	6.40	7.00	7.30	B2	B2	4.35	4.35
SHADY STREET	AS1	16.00	6.40	7.00	7.30	B2	B2	4.35	4.35
DUTCHELM AVENUE (SOUTH OF BLOOM STREET)	AS1	18.90	5.40	6.00	6.30	B2/M2	B2/M2	4.00	4.00
DUTCHELM AVENUE (NORTH OF BLOOM STREET)	AS1	28.80	5.40	6.00	6.6	B2/M2	B2/M2	13.65	6.4
MURRINDAL STREET	AS1	20.20	5.40	6.00	6.30	B2/M2	B2/M2	4.65	4.65
DEPOT LANE	AL	7.00	-	-	5.50	-	-	1.45	0.05

REVISION	DATE	DES/DT	APPD
9 AS CONSTRUCTED - EASEMENT TEXT	18.12.18	HE	LV
8 AS CONSTRUCTED - EASEMENT TEXT	18.12.18	HE	LV
7 AS CONSTRUCTED	17.08.18	HE	LV
6 CONNECTIONS TO DISCOVERY CENTRE UPDATED	01.02.18	NG	LV
5 DRAIN PIT 171 MOVED AWAY FROM TPZ	23.01.18	NG	LV
4 ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV

**DEVELOPMENT VICTORIA**  
 Principal  
 Development Victoria  
 710 Collins Street  
 Docklands, VIC - 3008

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Designed  
 B.Cheung  
 Drawn  
 S.Sathasivam  
 Checked  
 L.Vieira  
 Authorised  
 S.Tsialtas  
 Date  
 May 2016

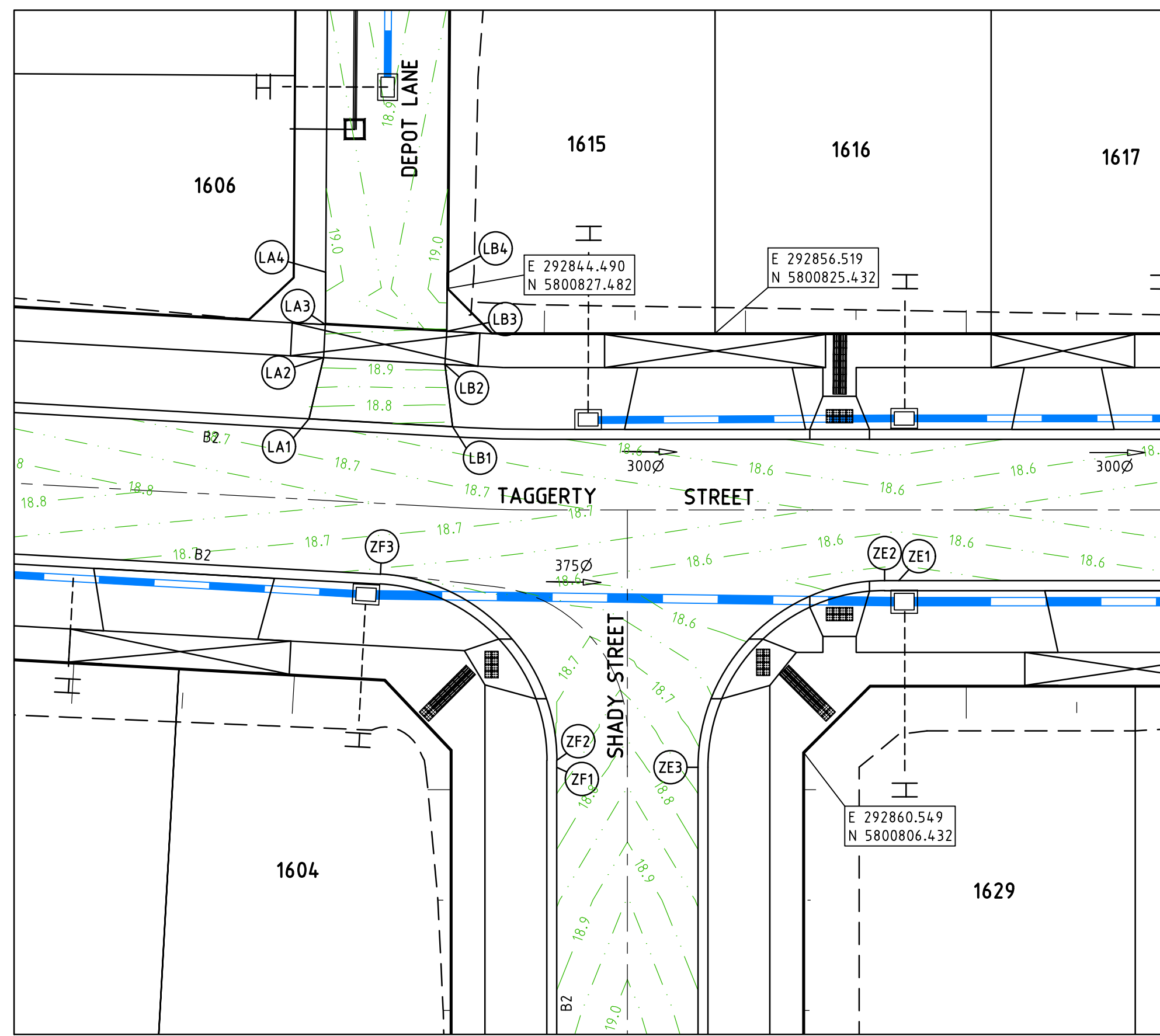
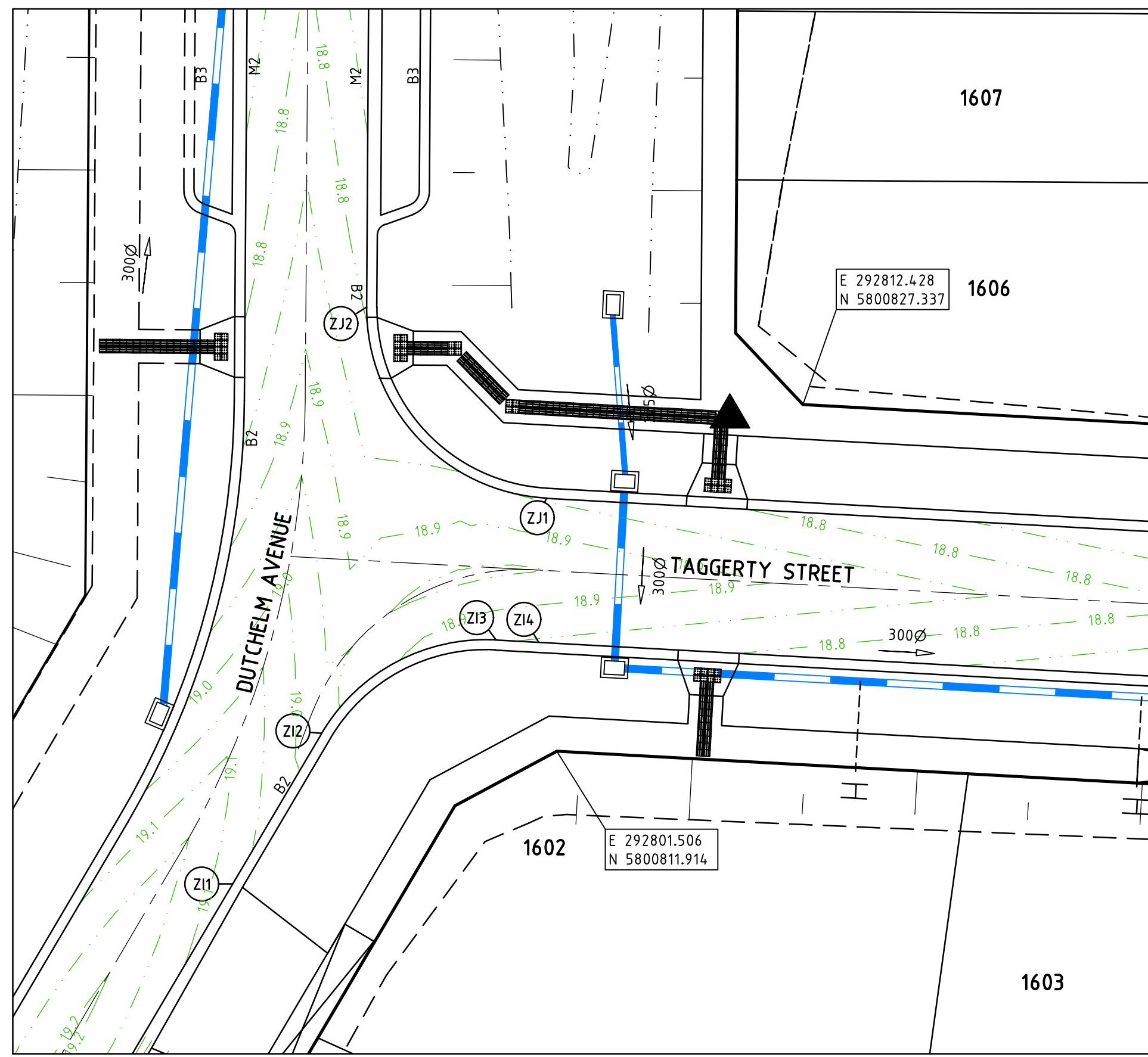
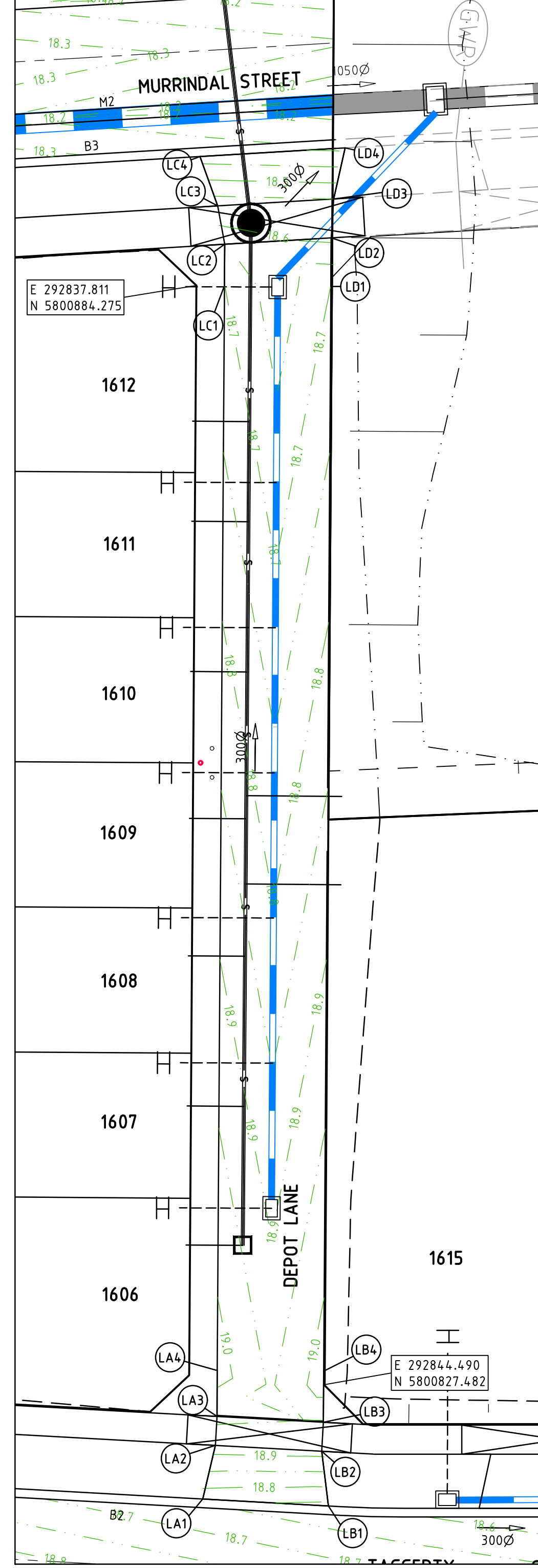
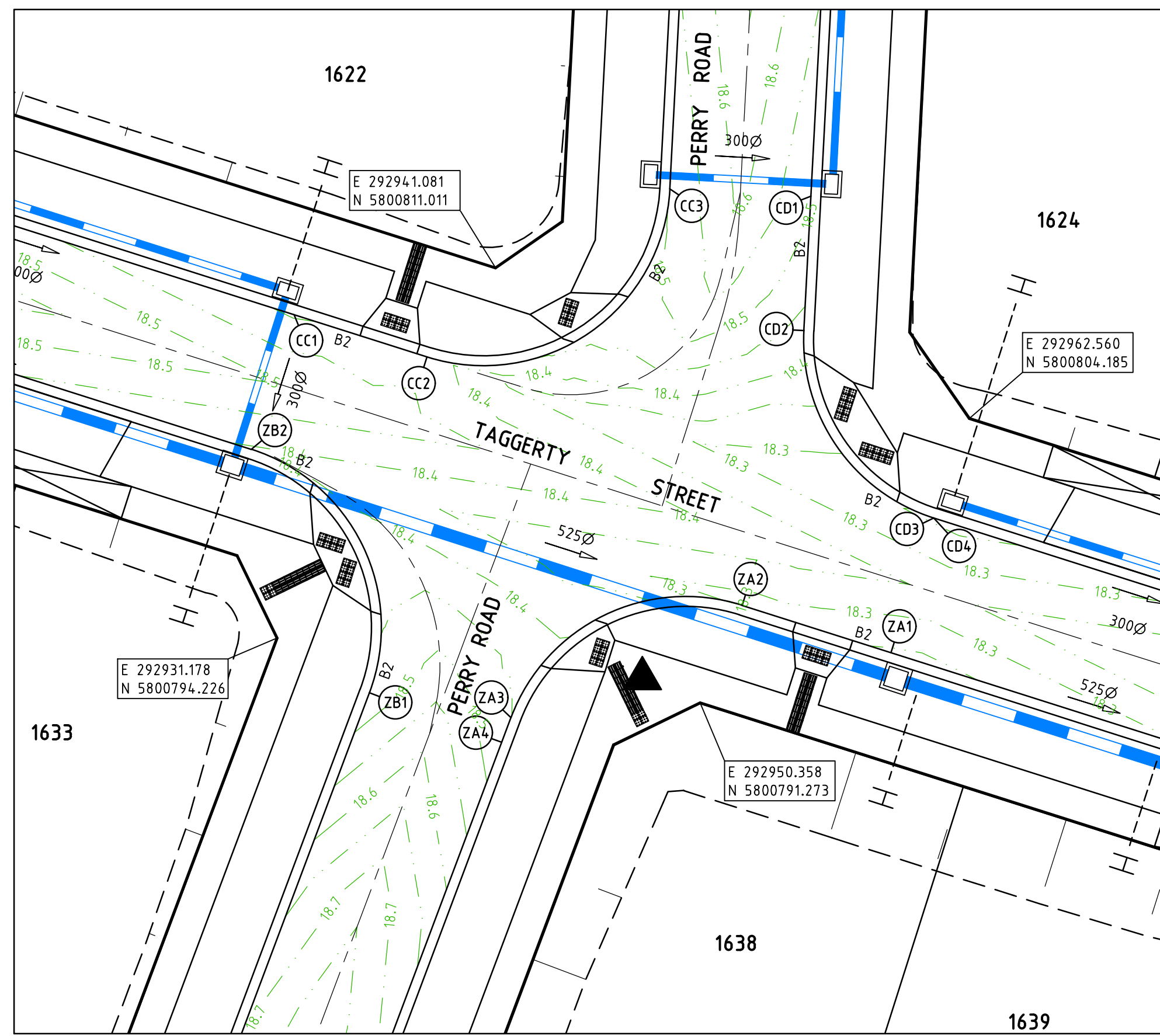
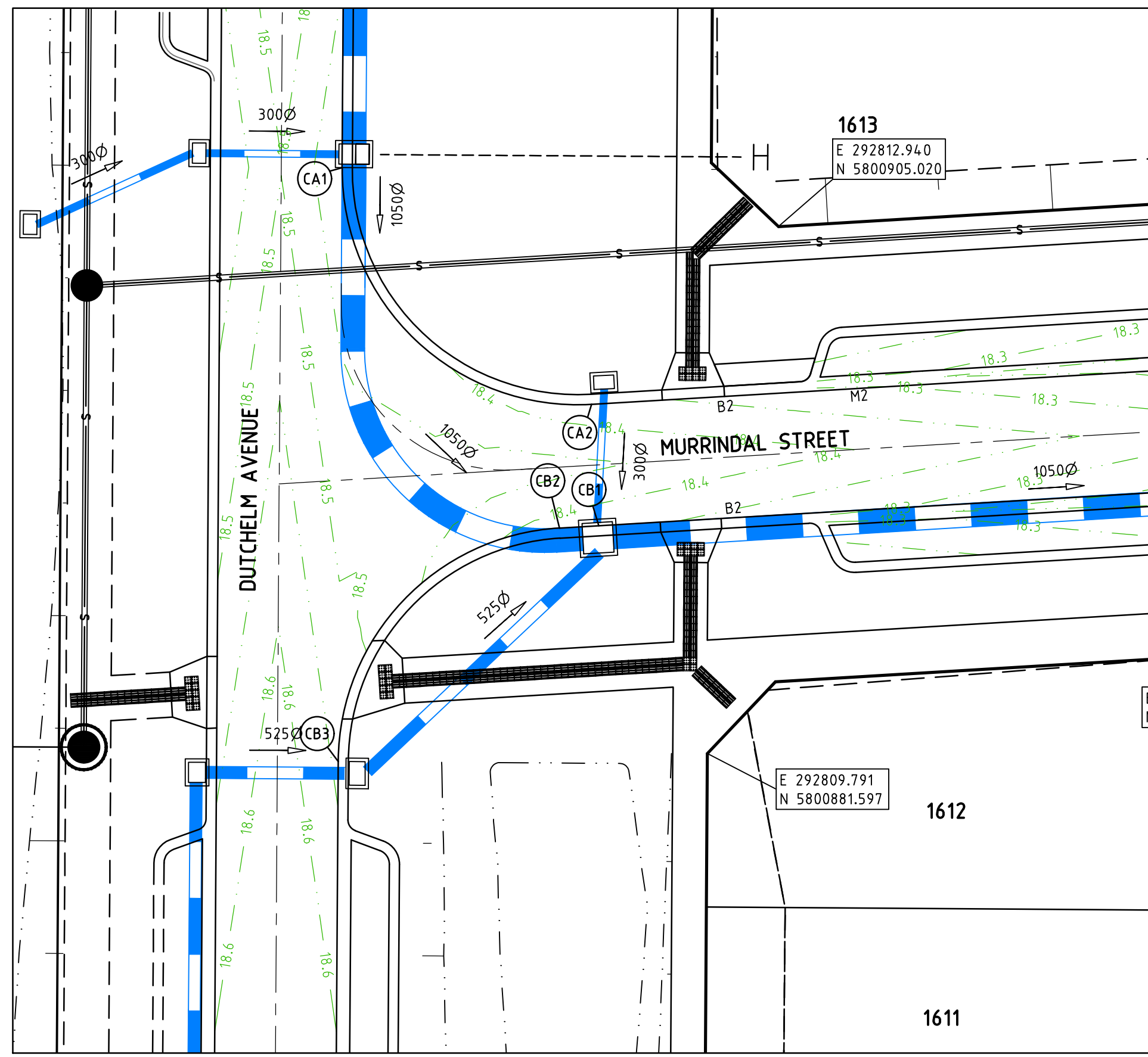


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**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Layout Plan  
**Drawing No. 1932E-16-02** **Rev 9**  
 Sheet No. 2 of 33  
**As Constructed**





**AS CONSTRUCTED PLANS**  
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**NOTES:**  
 • TRANSITION KERB PROFILES ACROSS PRAM CROSSING AND DRIVEWAY IF REQUIRED.

- 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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**NOTES**  
 1. REFER TO SHEET No's 1932E-16-06 - 1932E-16-07 FOR LIP PROFILES.  
 2. REFER TO SHEET No 1932E-16-08 FOR SETOUT INFORMATION.

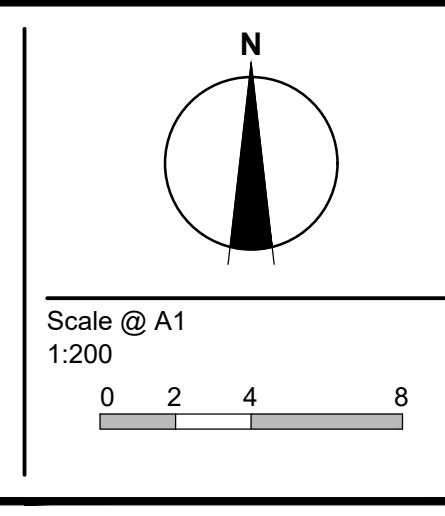
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REVISION	DATE	DES/DFT	APPD
5 AS CONSTRUCTED	17.08.18	HE	LV
4 CONNECTIONS TO DISCOVERY CENTRE UPDATED	01.02.18	NG	LV
3 ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV

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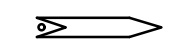

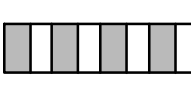
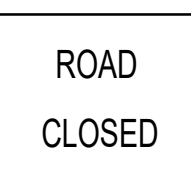

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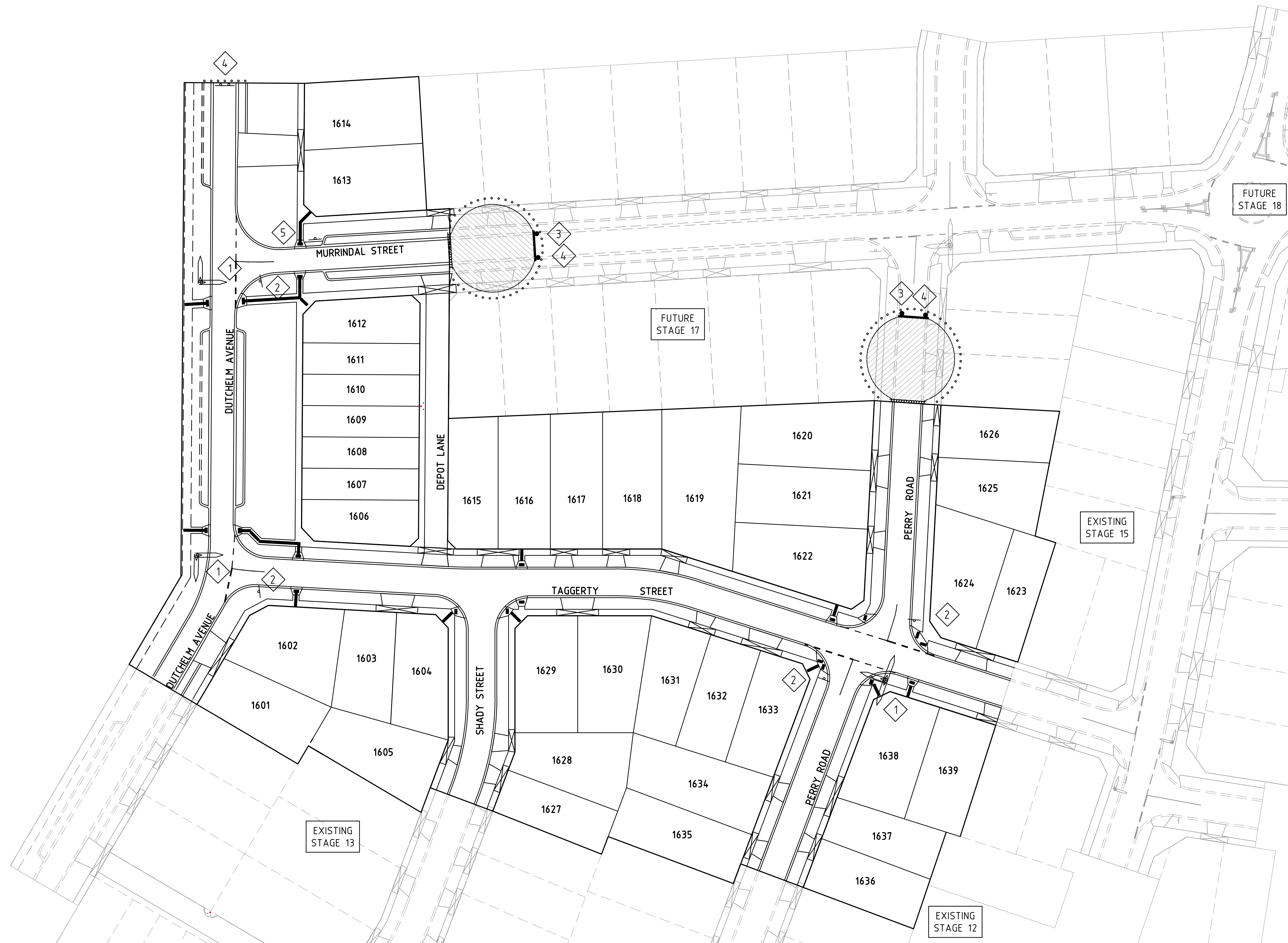
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**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Intersection Detail Plan  
**Drawing No. 1932E-16-03** **Rev 5**  
 Sheet No. 3 of 33  
**As Constructed**



SIGN SCHEDULE

SIGN	REF
	1
STREET SIGN	
	2
R1-2	
	3
D4-5	
	4
G9-20	
	5
LOTS 1613 & 1614	



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- NOTES**
- 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPM'S AT MAX 6m SPACING.
  - RRPMs TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOL 2.
  - ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS174.2.

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v:\urban\projects\urban1932e-riverwalk\1932e-16-04\1932e-16-04

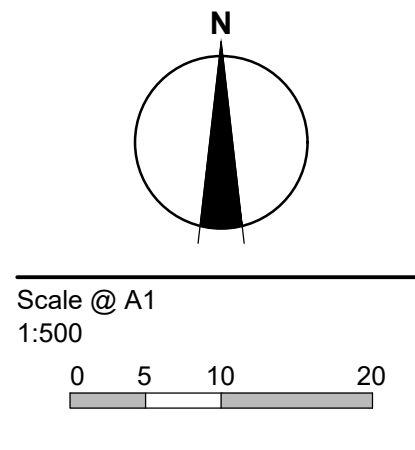
REVISION	DATE	DES/DFT	APPD
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4 ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV



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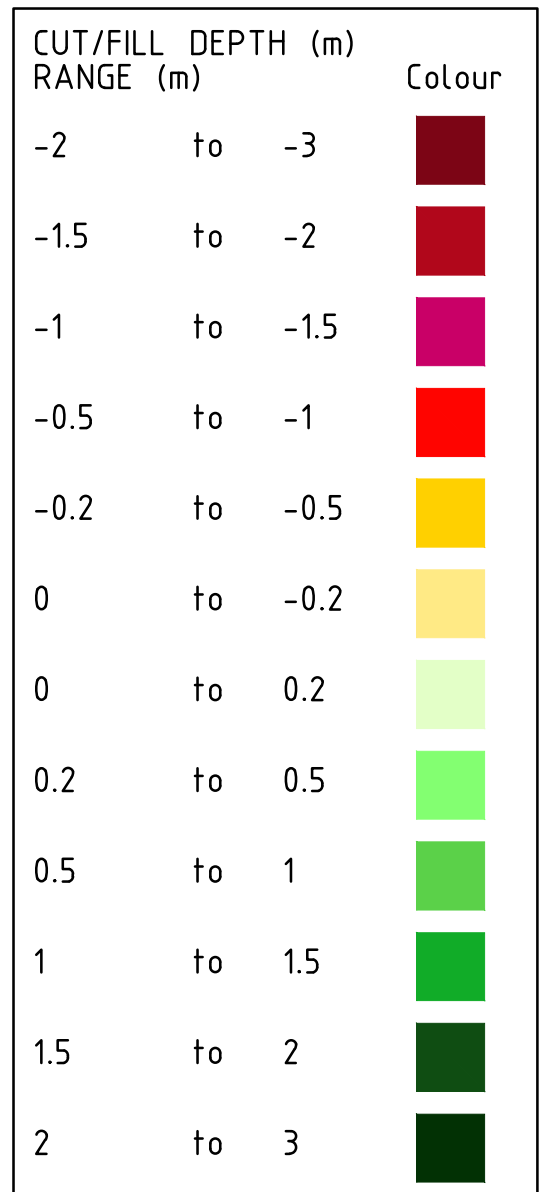
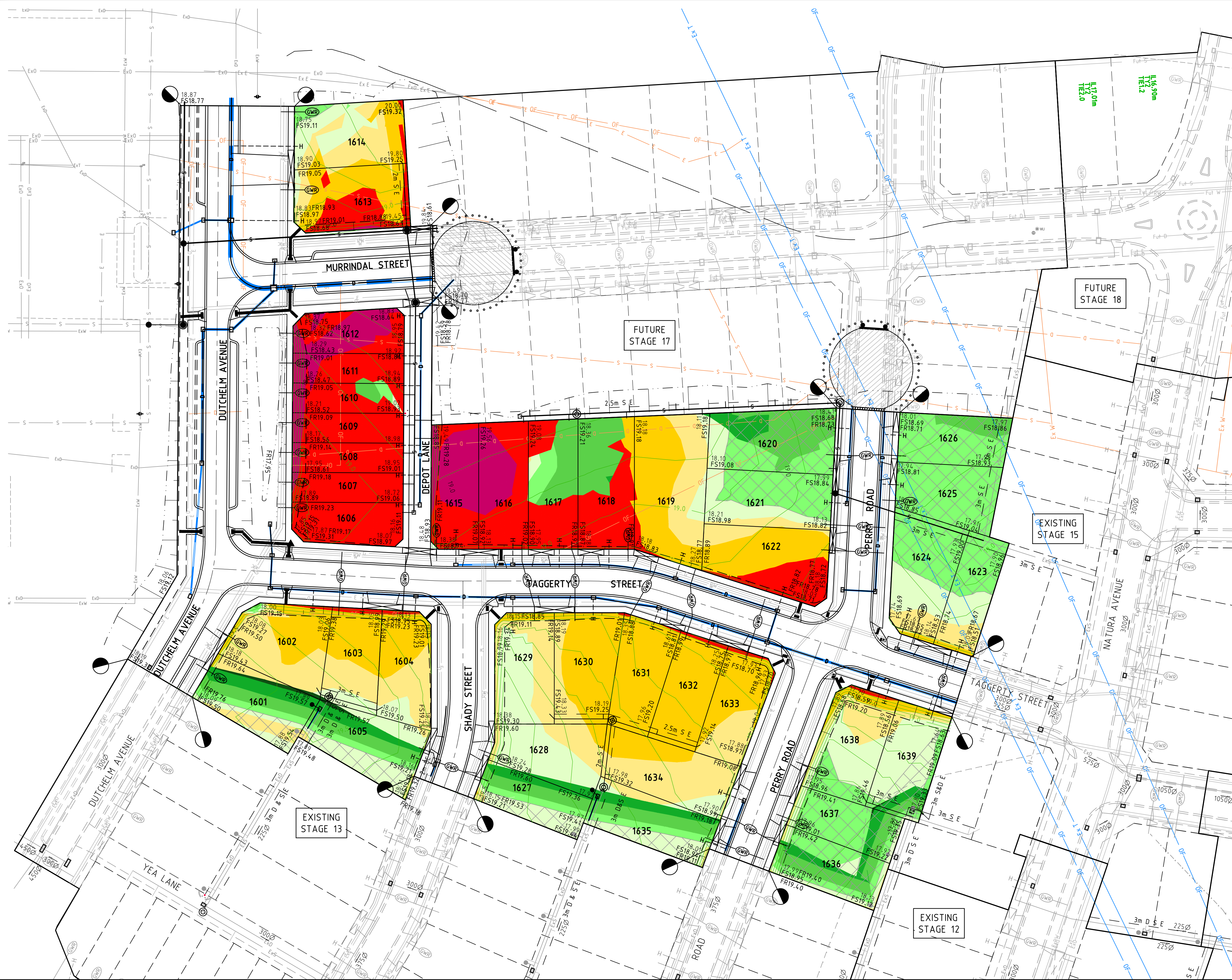
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**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Signs & Linemarking Plan

Drawing No. 1932E-16-04 Rev 5  
 Sheet No. 4 of 33

As Constructed





- LEGEND - CUT AND FILL PLAN**
- STORMWATER DRAIN, PIT & PROPERTY INLET
  - SWALE DRAIN
  - SEWER & MAINTENANCE STRUCTURES
  - HOUSE DRAIN
  - AG. DRAIN (INDICATIVE ONLY)
  - EXISTING STORMWATER DRAIN
  - EXISTING SEWER
  - EXISTING SWALE DRAIN
  - RETAINING WALL
  - WATER AUTHORITY HYDRANT (ABOVE GROUND)
  - EXISTING CONTOURS
  - 210 DESIGN CONTOURS
  - (BWA) SETOUT BUBBLES

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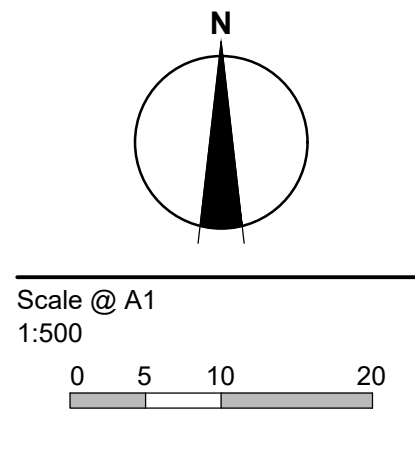
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 No guarantee is given that all existing services are shown. Locate all underground services before commencement of works  
**DIAL 1100 BEFORE YOU DIG**  
[www.1100.com.au](http://www.1100.com.au)

REVISION	DATE	DES/DFT	APPD
7	18.12.18	HE	LV
6	18.12.18	HE	LV
5	17.08.18	HE	LV
4	17.11.17	NG/SS	LV



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Designed  
 B.Cheung  
 Drawn  
 S.Sathasivam  
 Checked  
 L.Vieira  
 Authorised  
 S.Tsialtas  
 Date  
 May 2016



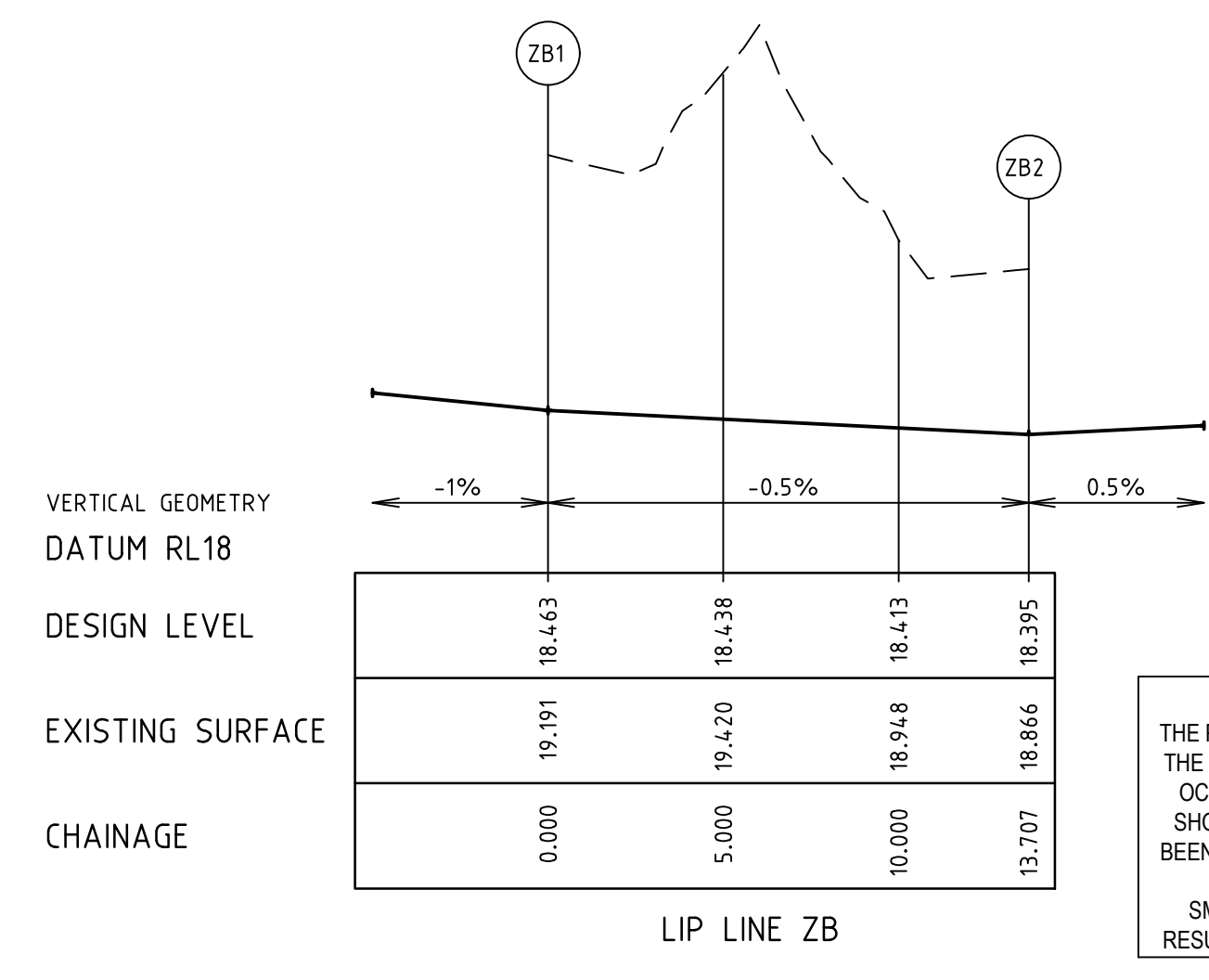
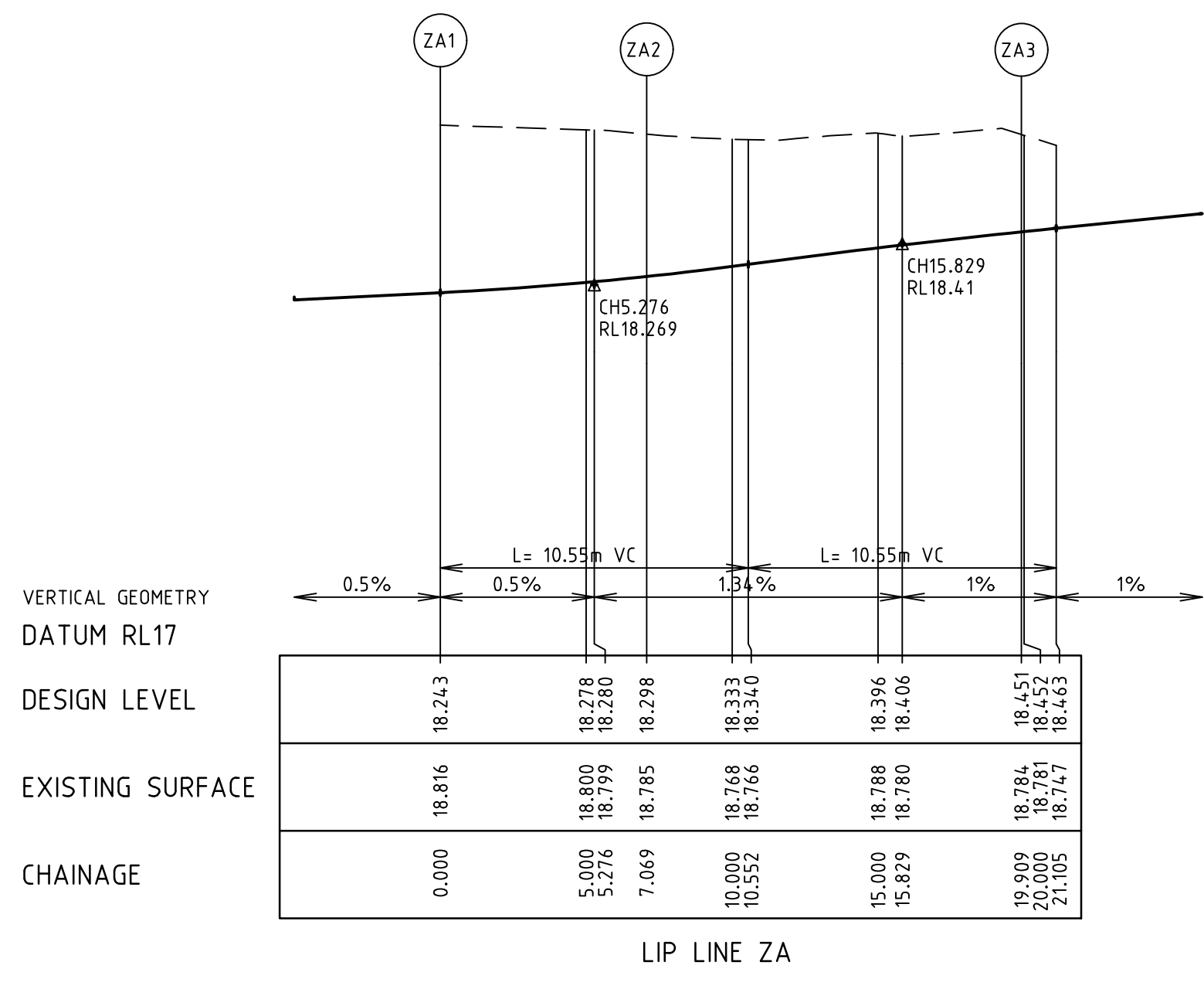
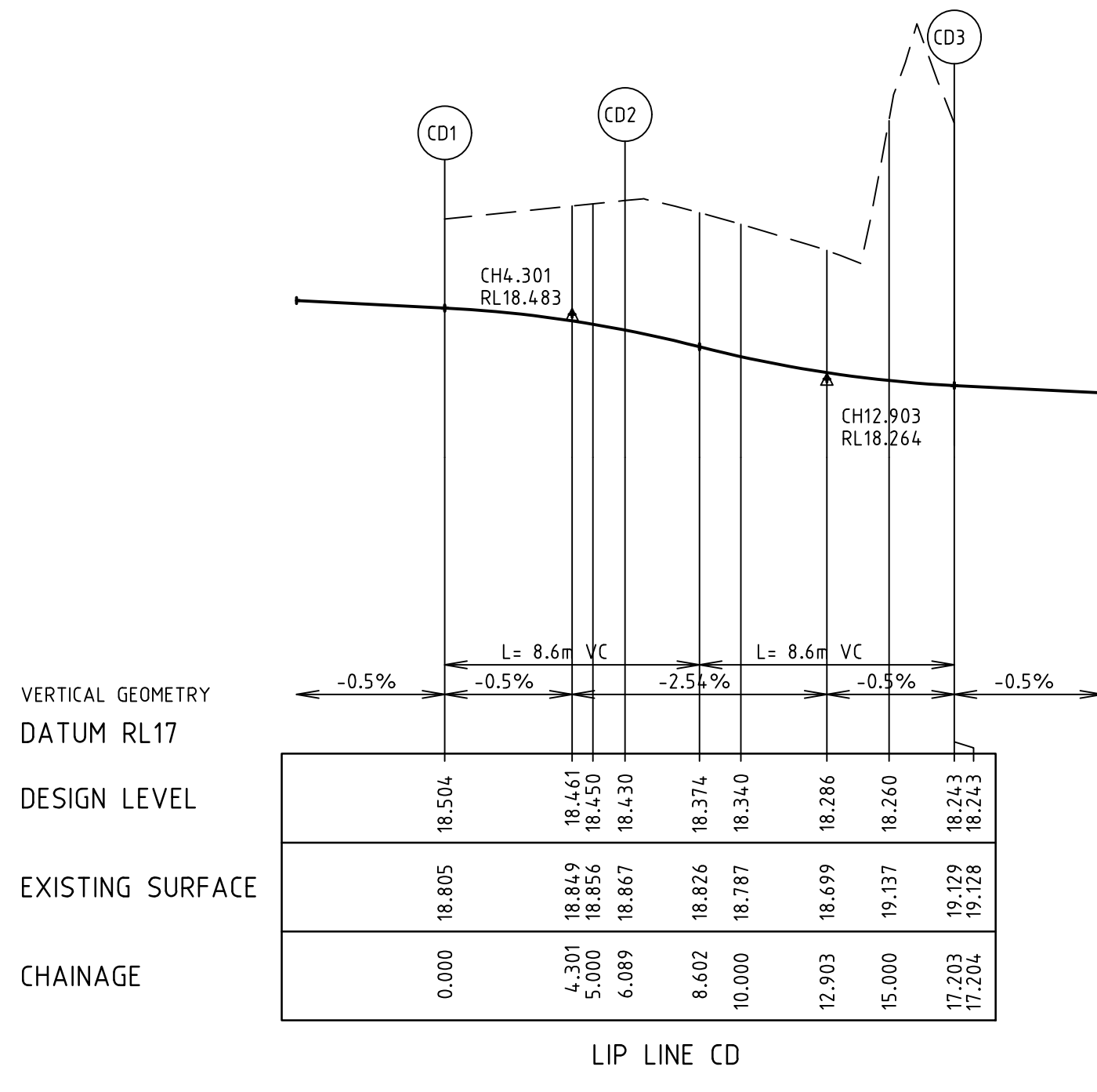
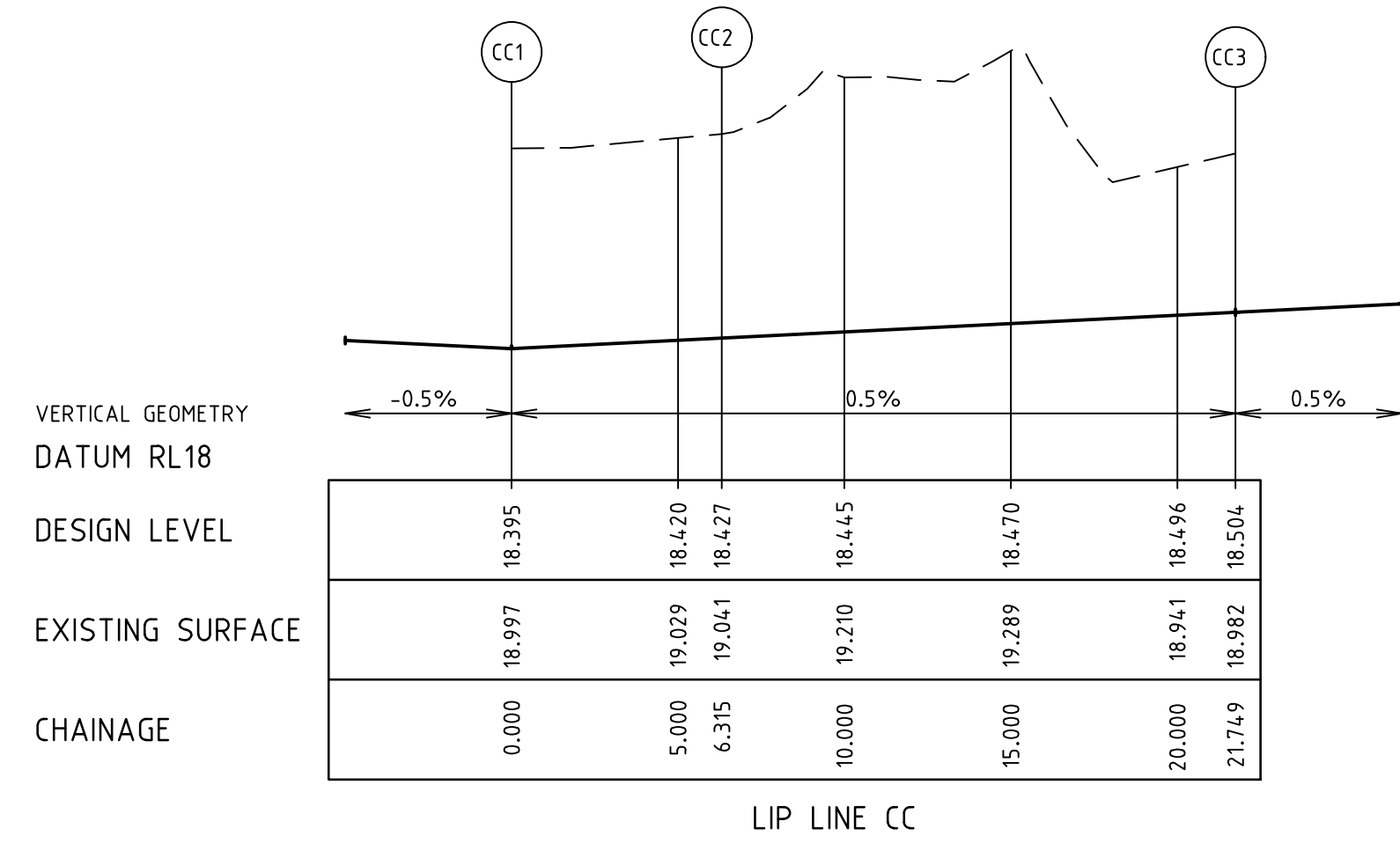
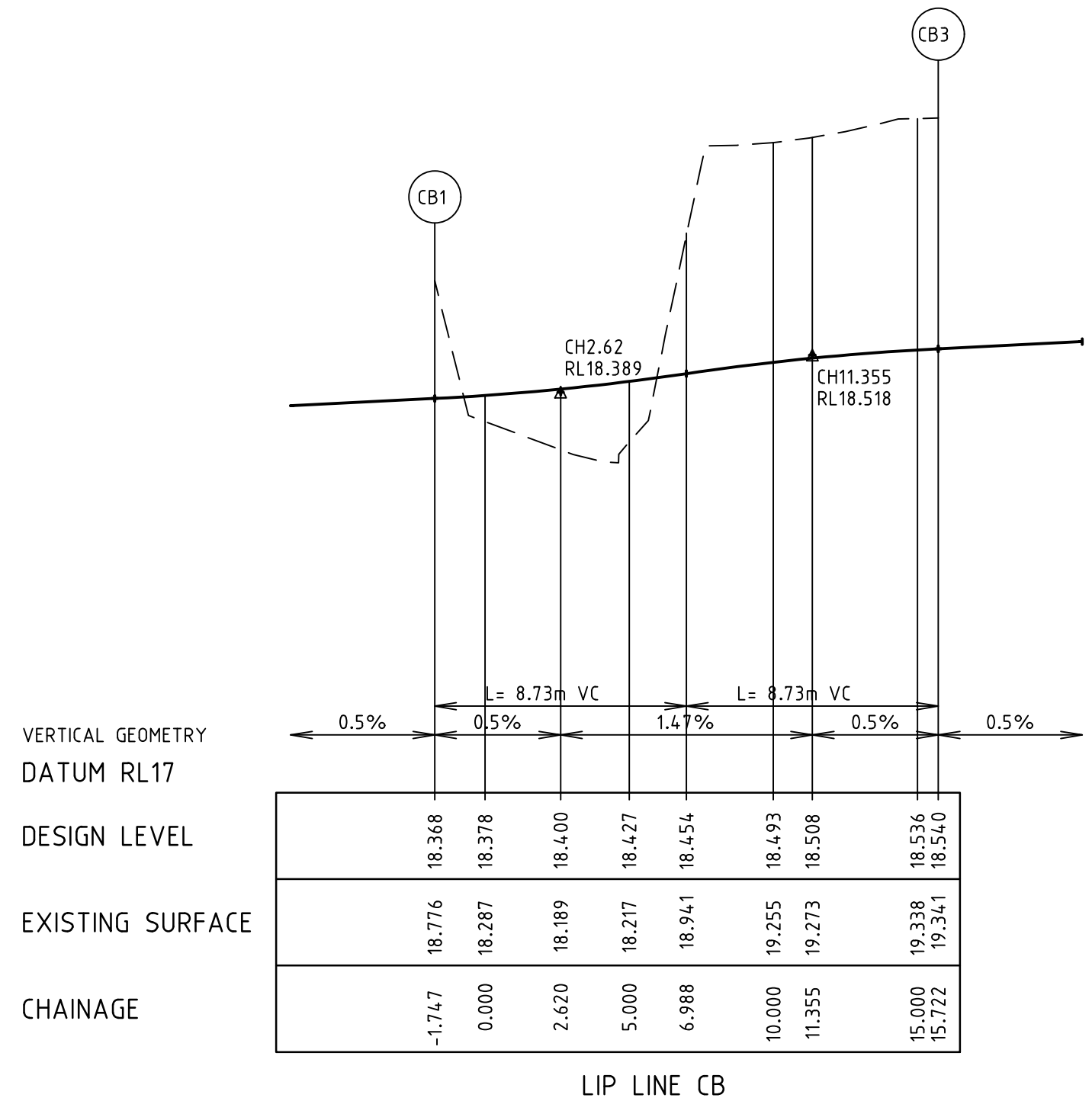
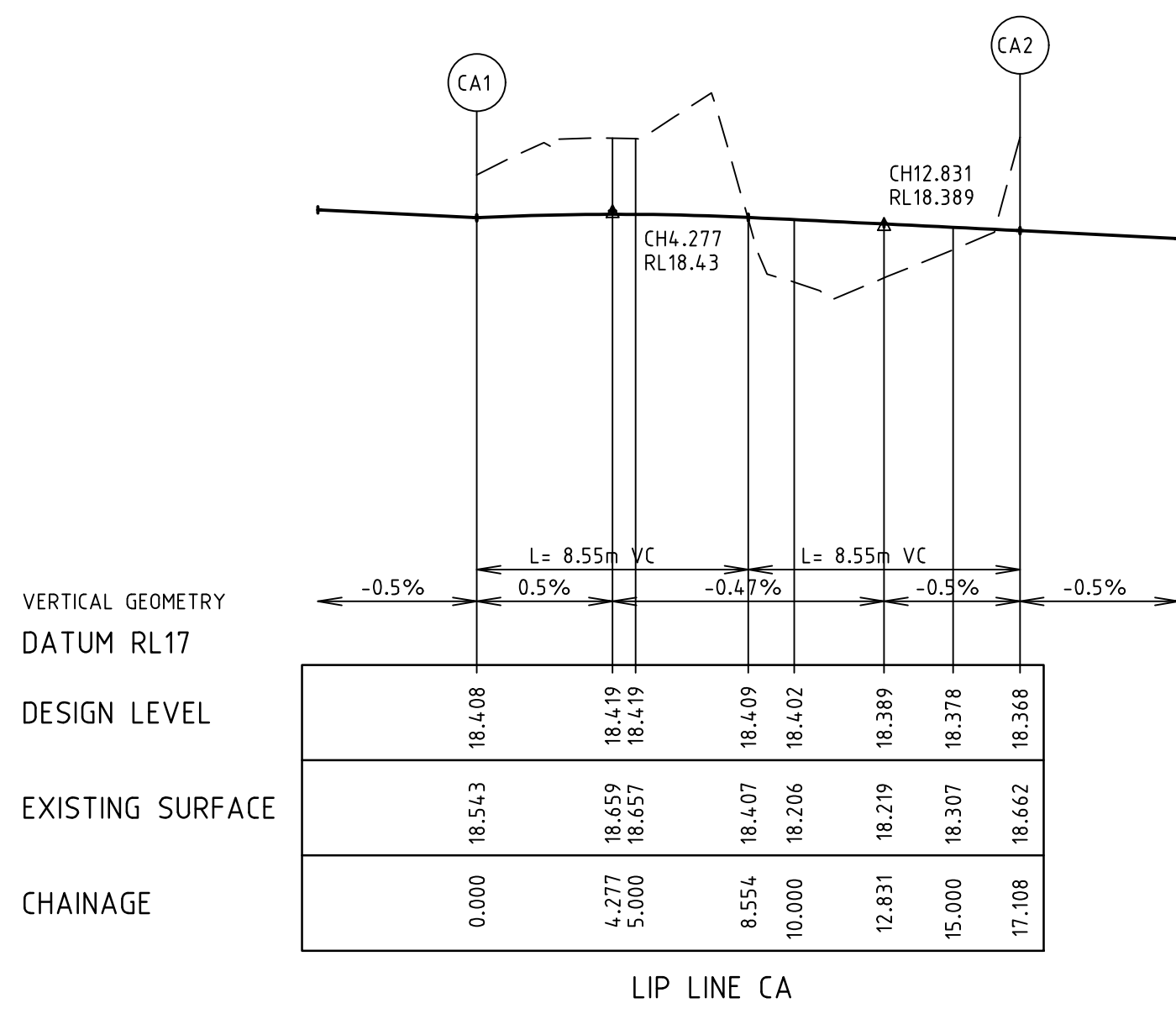
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**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Earthworks Plan  
**Drawing No. 1932E-16-05**      **Rev 7**  
 Sheet No. 5 of 33  
**As Constructed**



—	EXISTING SURFACE
—	DESIGN LINE
—	FUTURE DESIGN LINE



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 2. REFER TO SHEET No 1932E-16-08 FOR SETOUT INFORMATION.

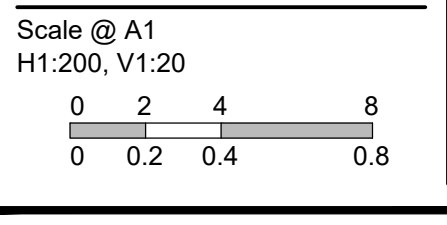
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4	AS CONSTRUCTED	17.08.18	HE	LV
3	ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV
	REVISION	DATE	DES/DFT	APPD

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 Development Victoria  
 710 Collins Street  
 Docklands, VIC - 3008

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 B.Cheung  
 Drawn  
 S.Sathasivam  
 Checked  
 L.Vieyra  
 Authorised  
 S.Tsialtas  
 Date  
 May 2016



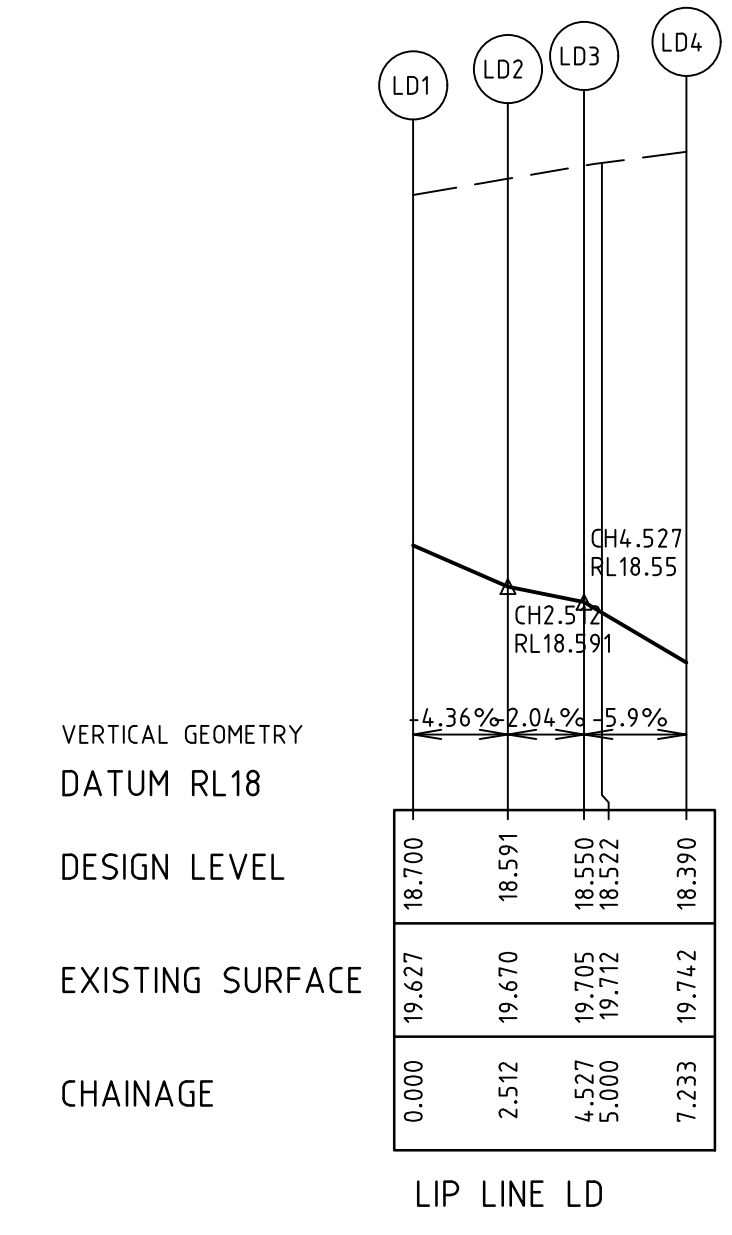
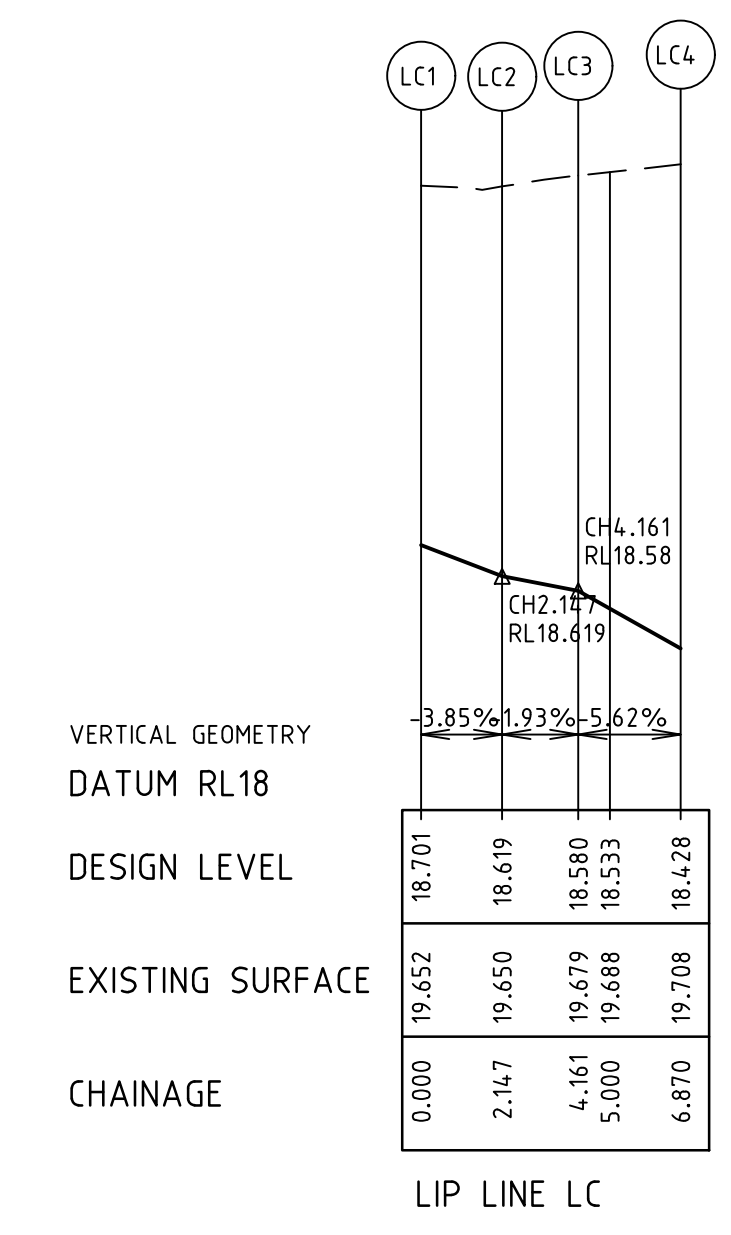
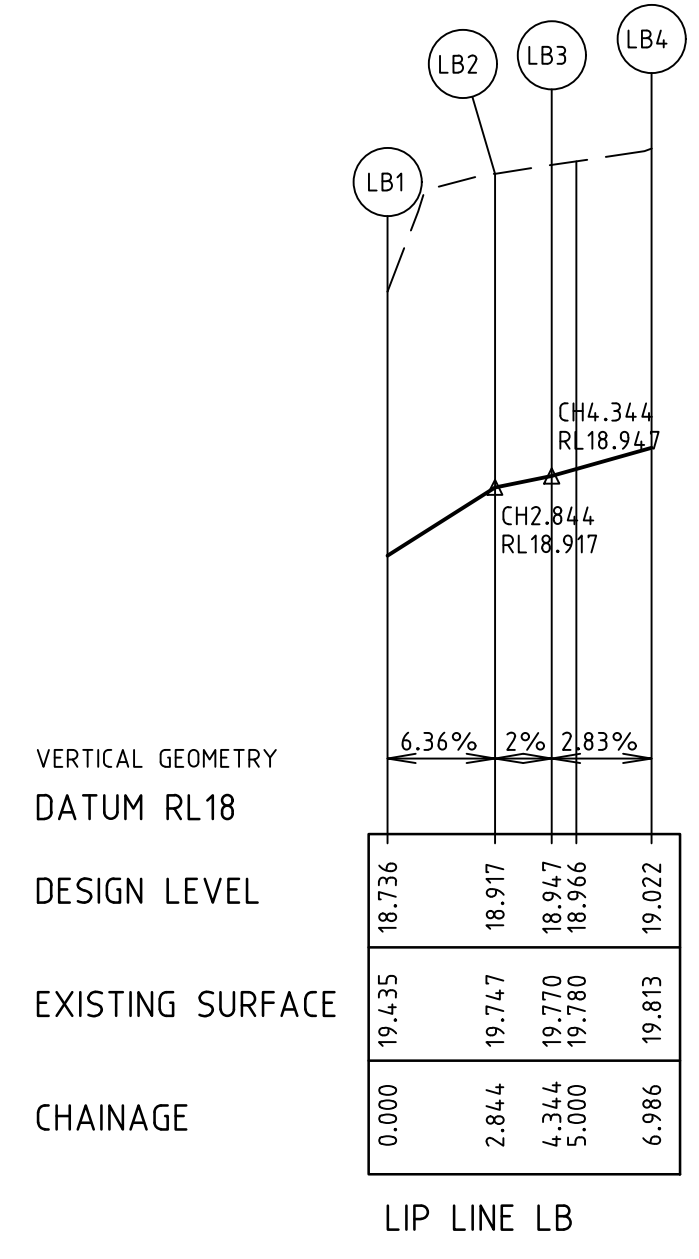
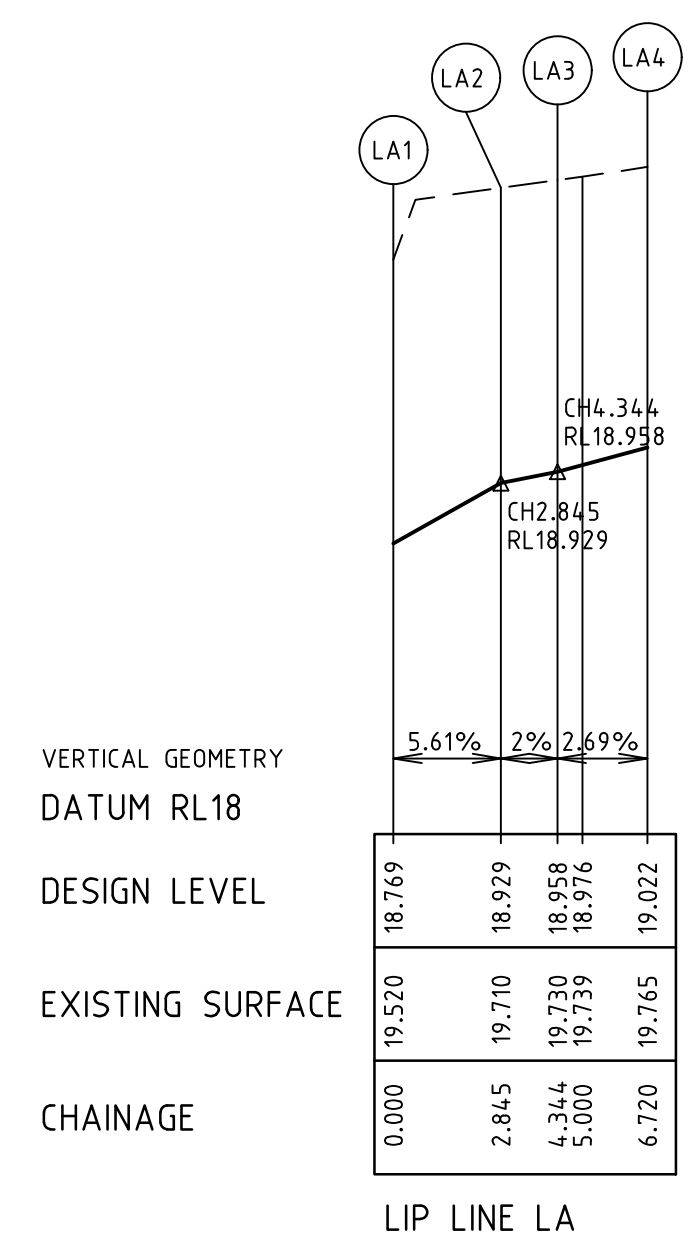
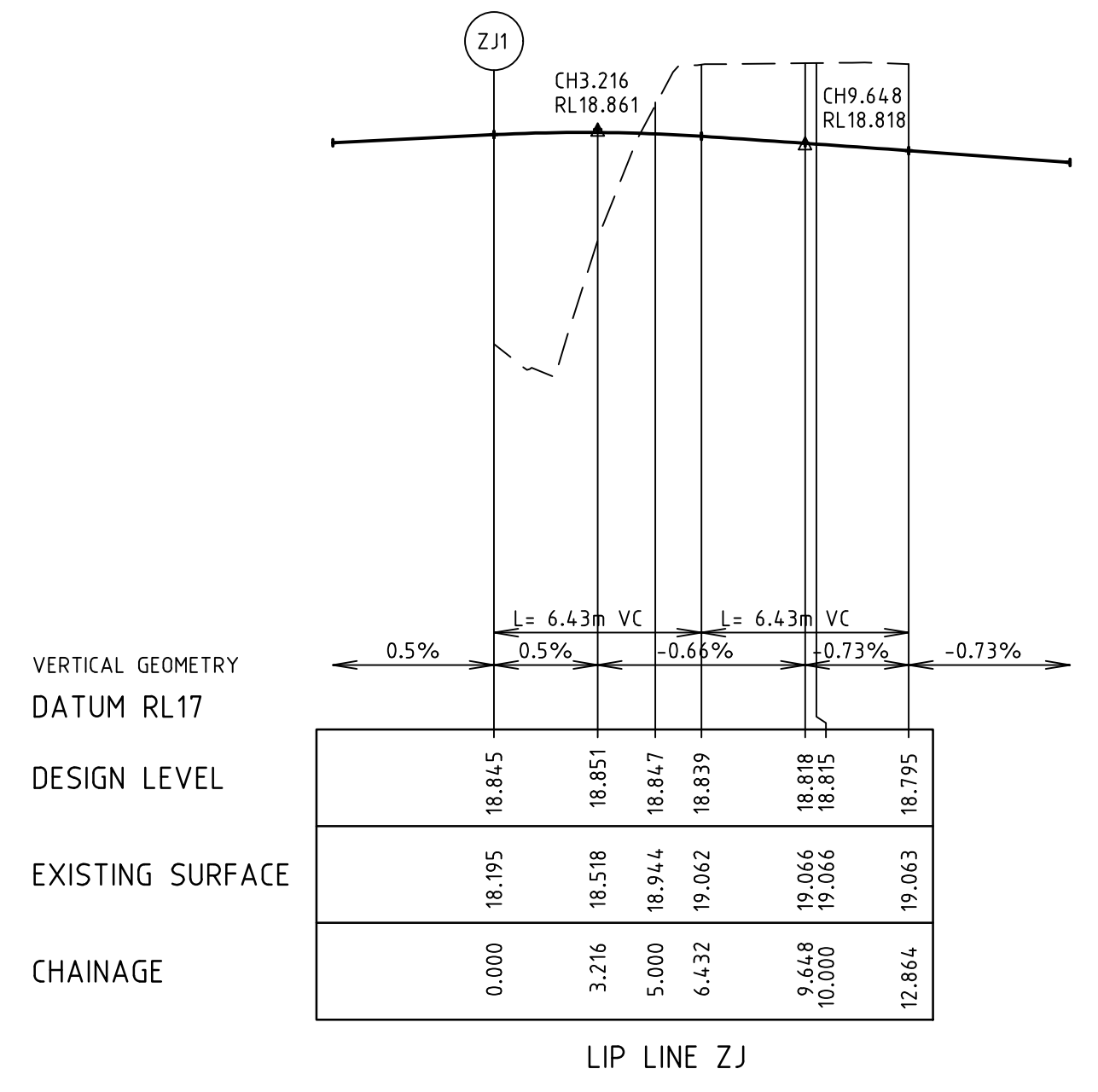
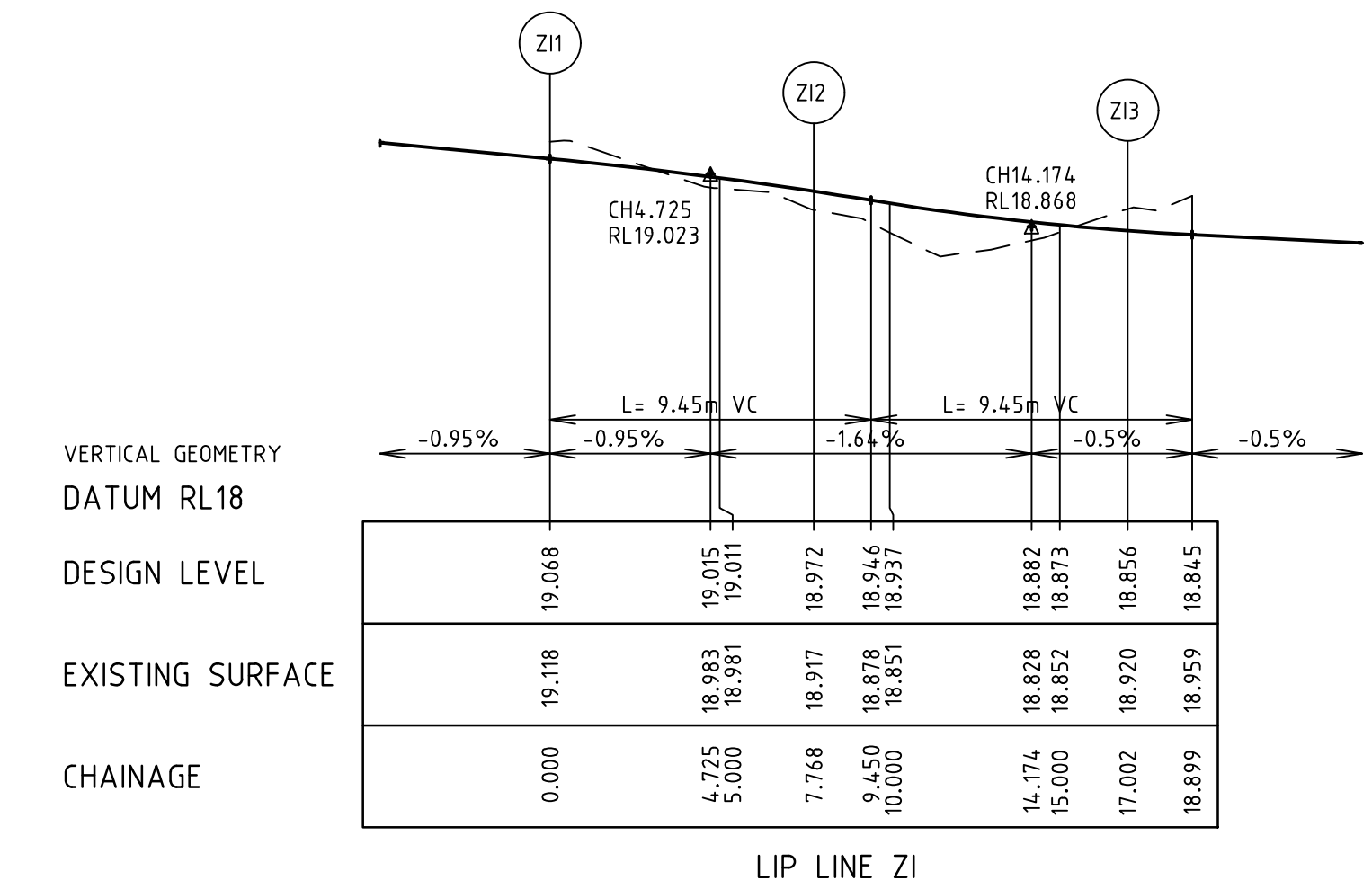
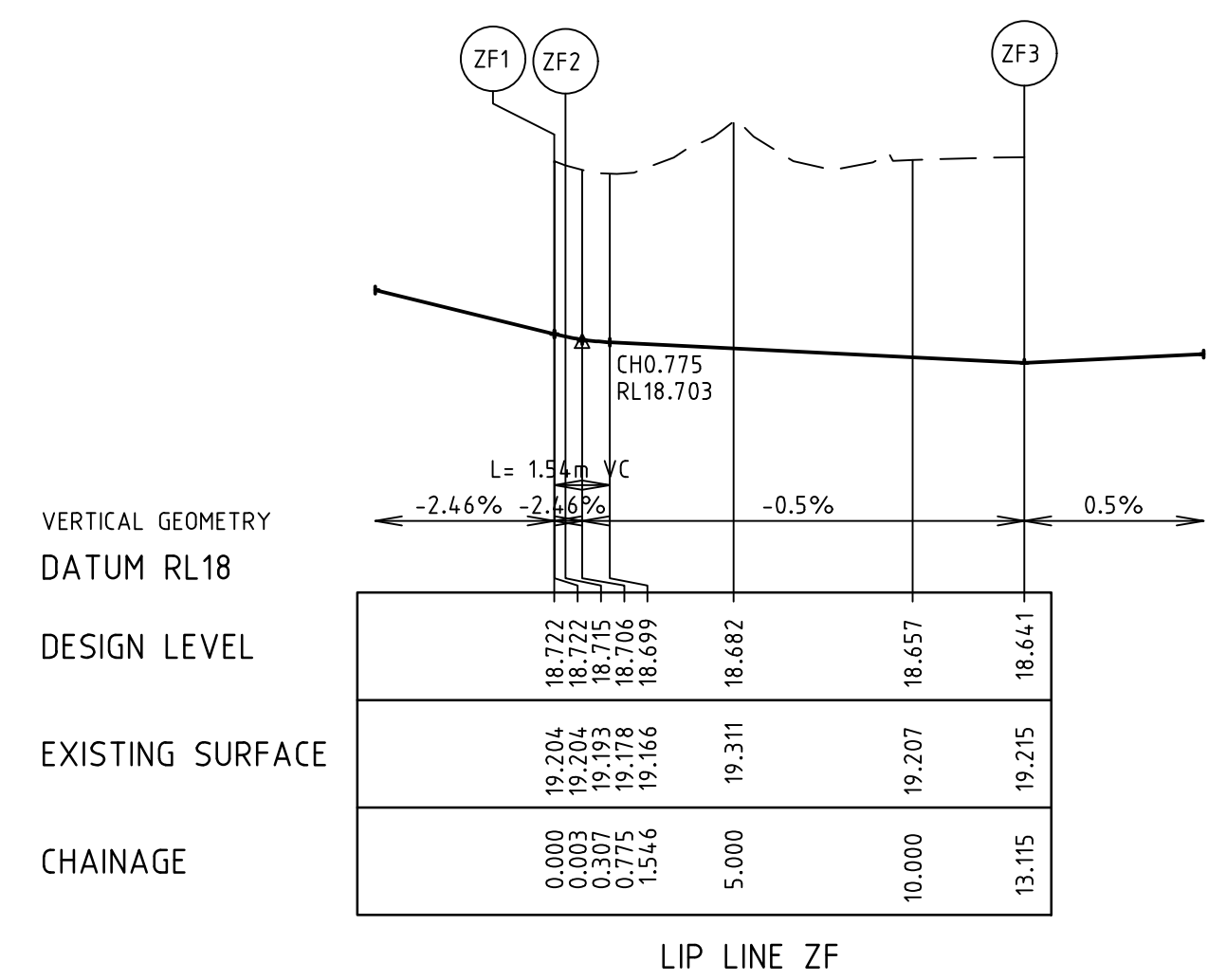
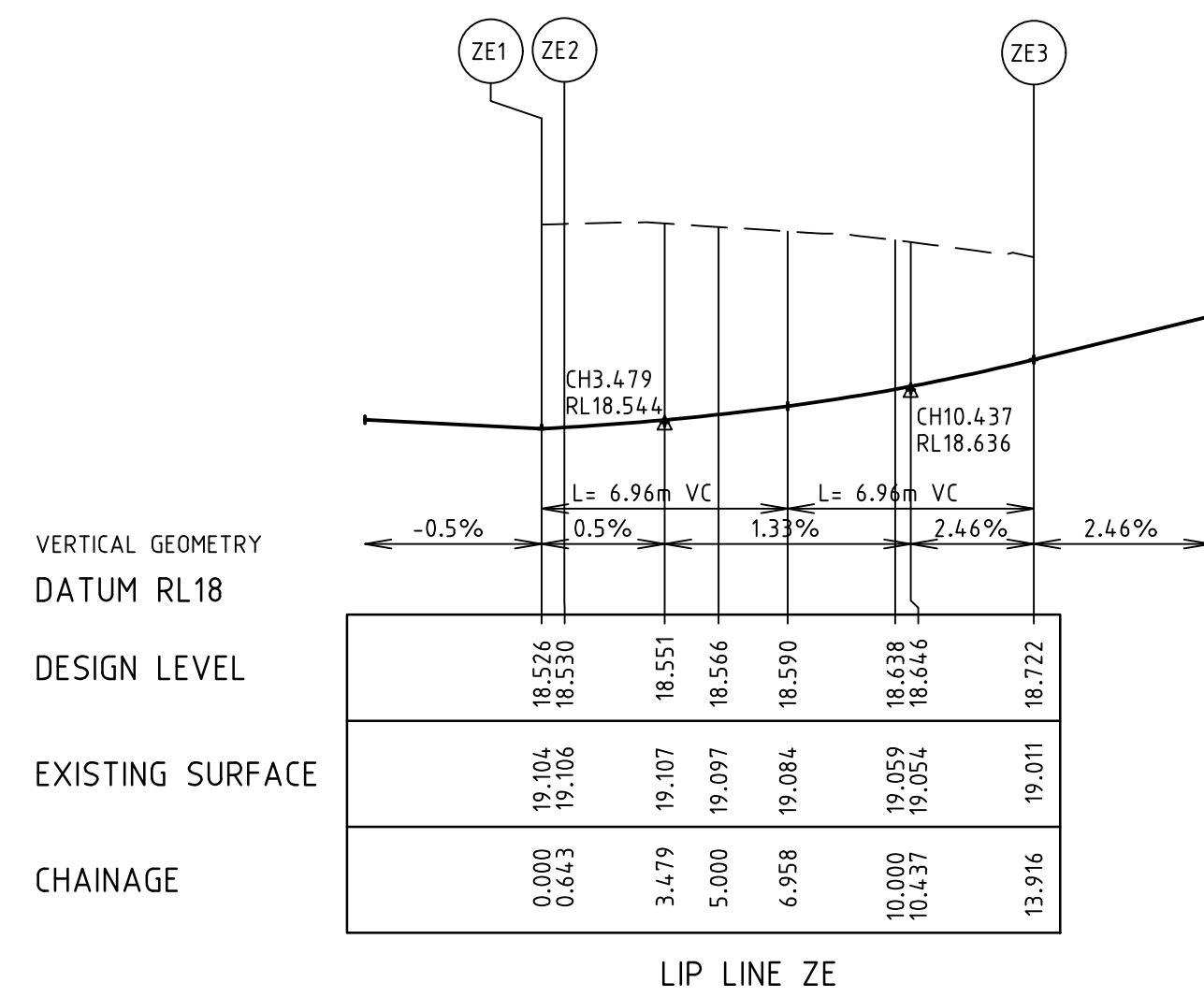
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**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Lip Profiles  
 Drawing No. 1932E-16-08  
 Sheet No. 6 of 33  
 Rev 4  
 As Constructed



—	EXISTING SURFACE
—	DESIGN LINE
—	FUTURE DESIGN LINE



**AS CONSTRUCTED PLANS**  
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- NOTES**
- CHAINAGES REFER TO LIP OF KERB/EDGE OF CONCRETE.
  - REFER TO SHEET No 1932E-16-08 FOR SETOUT INFORMATION.

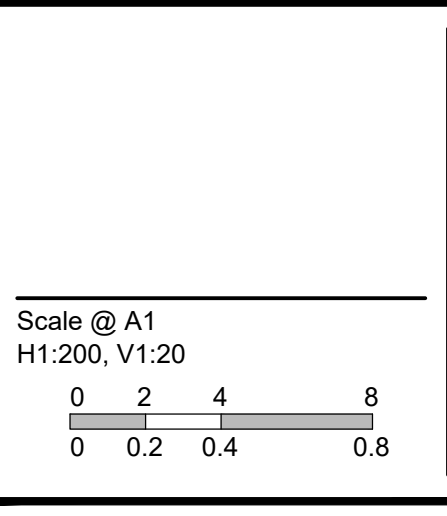
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4	AS CONSTRUCTED	17.08.18	HE	LV
3	ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV
REVISION		DATE	DES/DFT	APPD

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 Docklands, VIC - 3008

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Designed  
 B.Cheung  
 Drawn  
 S.Sathiasivam  
 Checked  
 L.Vieyra  
 Authorised  
 S.Tsialtas  
 Date  
 May 2016



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**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Lip Profiles

Drawing No. 1932E-16-07  
 Sheet No. 7 of 33

Rev 4  
 As Constructed



ALIGNMENT CA

Table with 4 columns: POINT NO, EASTING, NORTHING, RL. Rows for CA1, CA2, CURVE NO, and CURVE DATA (CA1 - CA2).

ALIGNMENT CB

Table with 4 columns: POINT NO, EASTING, NORTHING, RL. Rows for CB1, CB2, CB3, CURVE NO, and CURVE DATA (CB2 - CB3).

ALIGNMENT CC

Table with 4 columns: POINT NO, EASTING, NORTHING, RL. Rows for CC1, CC2, CC3, CURVE NO, and CURVE DATA (CC2 - CC3).

ALIGNMENT CD

Table with 4 columns: POINT NO, EASTING, NORTHING, RL. Rows for CD1, CD2, CD3, CD4, CURVE NO, and CURVE DATA (CD2 - CD3).

ALIGNMENT ZA

Table with 4 columns: POINT NO, EASTING, NORTHING, RL. Rows for ZA1, ZA2, ZA3, ZA4, CURVE NO, and CURVE DATA (ZA2 - ZA3).

ALIGNMENT ZB

Table with 4 columns: POINT NO, EASTING, NORTHING, RL. Rows for ZB1, ZB2, CURVE NO, and CURVE DATA (ZB1 - ZB2).

ALIGNMENT ZE

Table with 4 columns: POINT NO, EASTING, NORTHING, RL. Rows for ZE1, ZE2, ZE3, CURVE NO, and CURVE DATA (ZE2 - ZE3).

ALIGNMENT ZF

Table with 4 columns: POINT NO, EASTING, NORTHING, RL. Rows for ZF1, ZF2, ZF3, CURVE NO, and CURVE DATA (ZF2 - ZF3).

ALIGNMENT ZI

Table with 4 columns: POINT NO, EASTING, NORTHING, RL. Rows for ZI1, ZI2, ZI3, ZI4, CURVE NO, and CURVE DATA (ZI2 - ZI3).

ALIGNMENT ZJ

Table with 4 columns: POINT NO, EASTING, NORTHING, RL. Rows for ZJ1, ZJ2, CURVE NO, and CURVE DATA (ZJ1 - ZJ2).

ALIGNMENT LA

Table with 4 columns: POINT NO, EASTING, NORTHING, RL. Rows for LA1, LA2, LA3, LA4, CURVE NO, and CURVE DATA.

ALIGNMENT LB

Table with 4 columns: POINT NO, EASTING, NORTHING, RL. Rows for LB1, LB2, LB3, LB4, CURVE NO, and CURVE DATA.

ALIGNMENT LC

Table with 4 columns: POINT NO, EASTING, NORTHING, RL. Rows for LC1, LC2, LC3, LC4, CURVE NO, and CURVE DATA.

ALIGNMENT LD

Table with 4 columns: POINT NO, EASTING, NORTHING, RL. Rows for LD1, LD2, LD3, LD4, CURVE NO, and CURVE DATA.

DUTCHELM DESIGN LINE

Table with 11 columns: IP, CHAINAGE, X COORD, Y COORD, Z COORD, TYPE, BEARING, LENGTH, RADIUS. Rows 1-4.

MURRINDAL DESIGN LINE

Table with 11 columns: IP, CHAINAGE, X COORD, Y COORD, Z COORD, TYPE, BEARING, LENGTH, RADIUS. Rows 1-2.

TAGGERTY DESIGN LINE

Table with 11 columns: IP, CHAINAGE, X COORD, Y COORD, Z COORD, TYPE, BEARING, LENGTH, RADIUS. Rows 1-5.

SHADY DESIGN LINE

Table with 11 columns: IP, CHAINAGE, X COORD, Y COORD, Z COORD, TYPE, BEARING, LENGTH, RADIUS. Rows 1-4.

PERRY DESIGN LINE

Table with 11 columns: IP, CHAINAGE, X COORD, Y COORD, Z COORD, TYPE, BEARING, LENGTH, RADIUS. Rows 1-3.

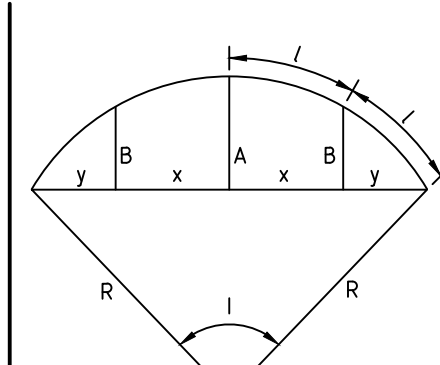
AS CONSTRUCTED PLANS
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NOTES
1. SETOUT CO-ORDINATES REFER TO LIP OF KERB/EDGE OF CONCRETE.
2. REFER TO SHEET No 1932E-16-06 - 1932E-16-07 FOR LIP PROFILES.

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Designed B.Cheung
Drawn S.Sathasivam
Checked L.Vieyra
Authorised S.Tsialtas
Date May 2016

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River Walk
Stage 16
Wyndham City Council
Roadworks and Drainage
Setout Information

Drawing No. 1932E-16-08
Sheet No. 8 of 33

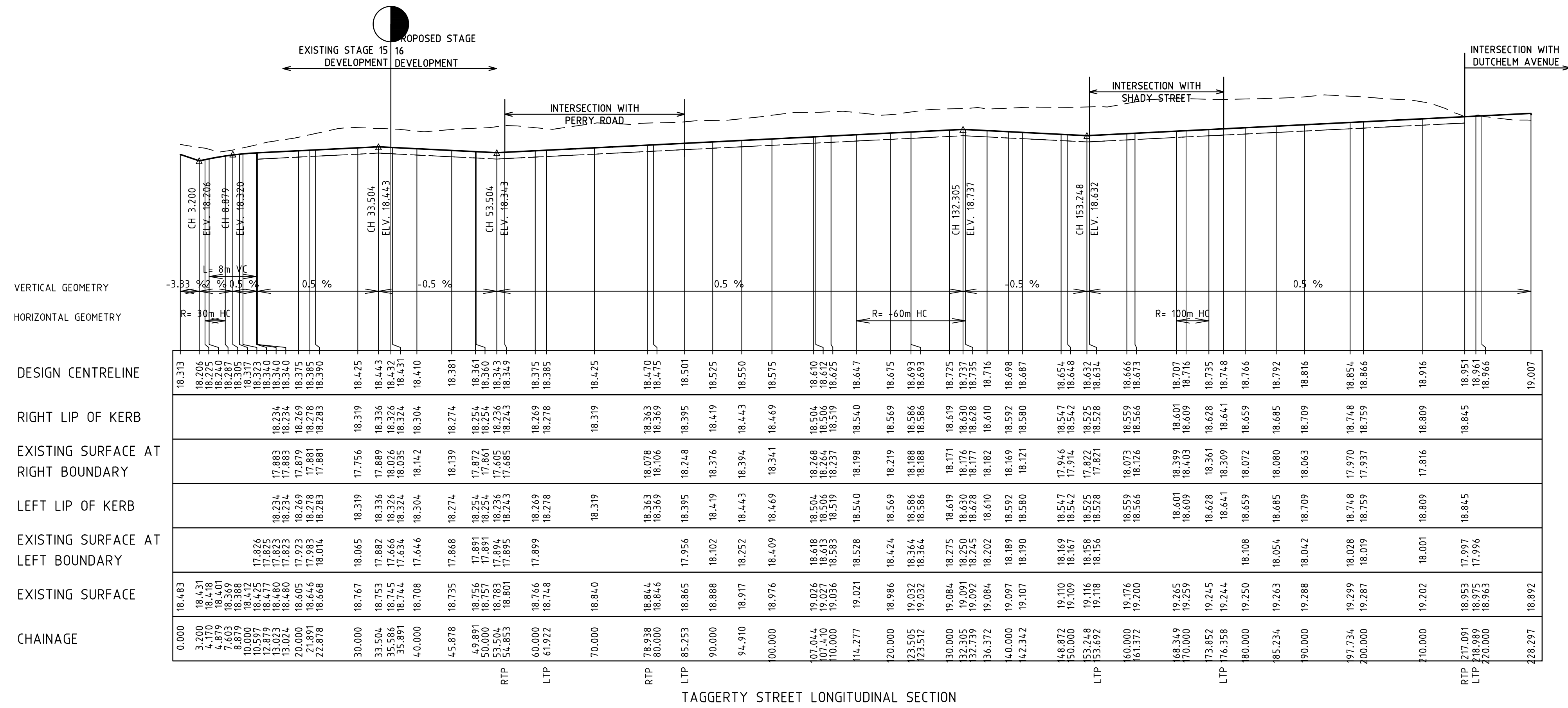
Rev 4

As Constructed

Table with columns: REVISION, DATE, DES/DFT, APPD. Rows for AS CONSTRUCTED and ISSUED FOR CONSTRUCTION.



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



**AS CONSTRUCTED PLANS**  
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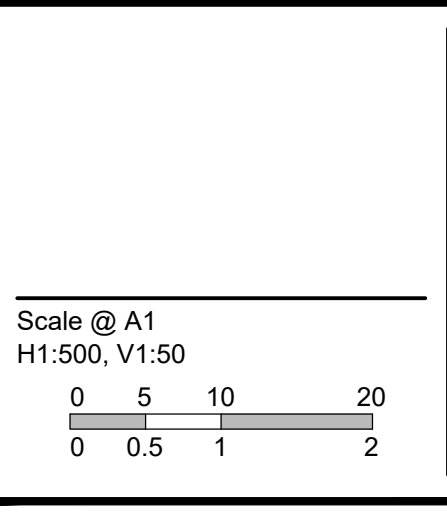
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REVISION	DATE	DES/DFT	APPD
4	17.08.18	HE	LV
3	17.11.17	NG/SS	LV

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 Docklands, VIC - 3008

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Designed  
 B.Cheung  
 Drawn  
 S.Sathasivam  
 Checked  
 L.Vieyra  
 Authorised  
 S.Tsialtas  
 Date  
 May 2016



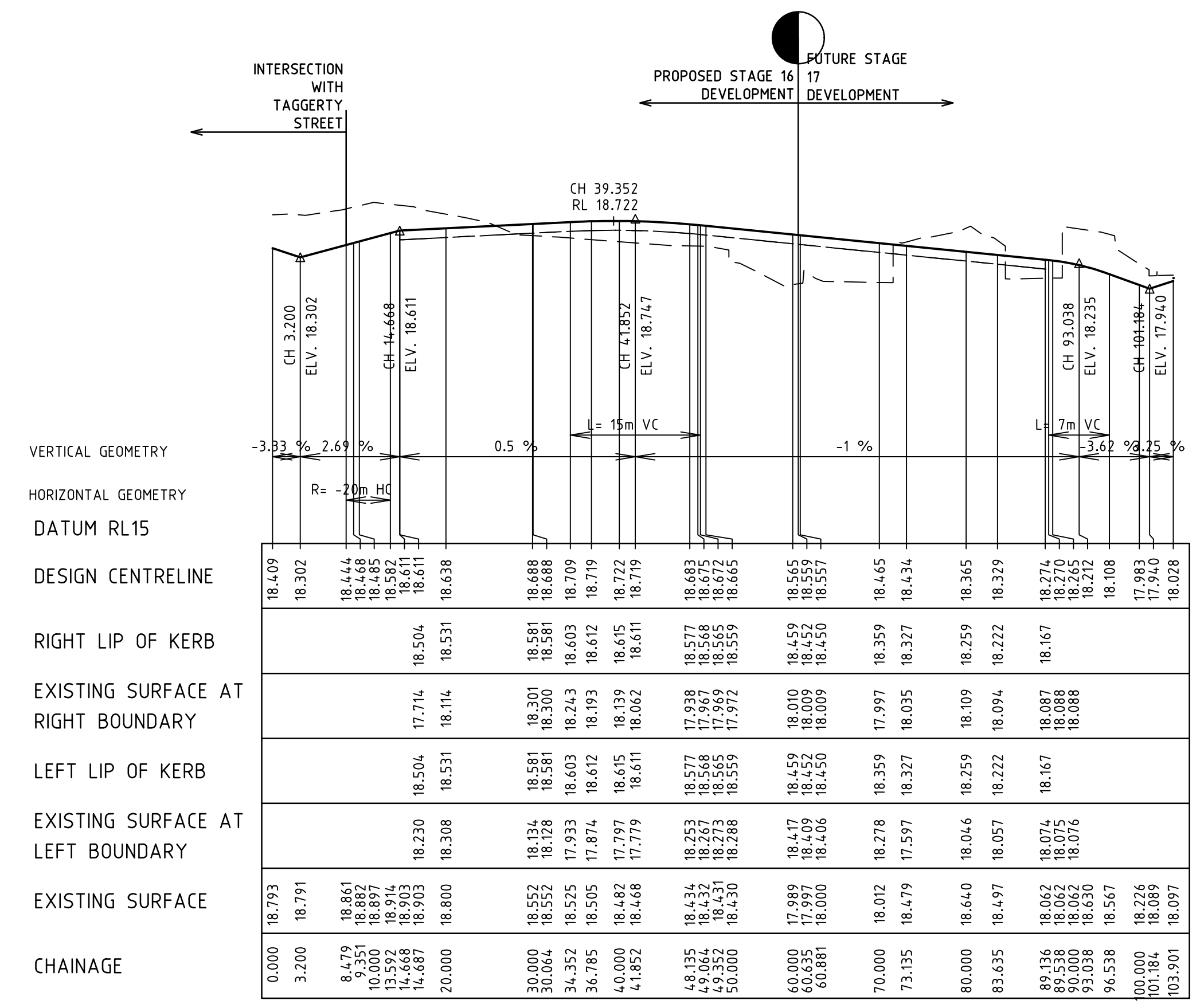
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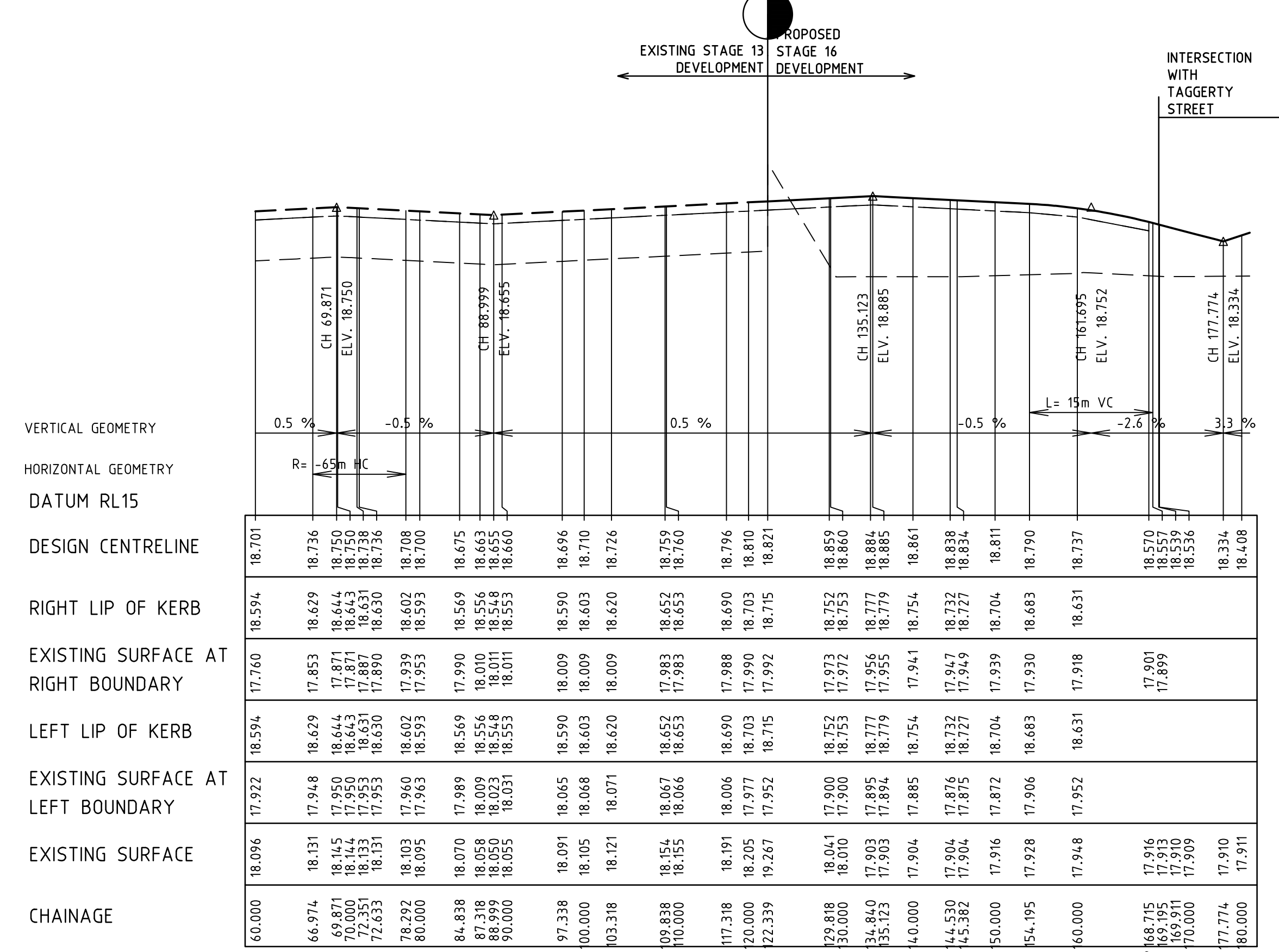
**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Longitudinal Sections - 1  
 Drawing No. 1932E-16-09  
 Sheet No. 9 of 33  
 Rev 4  
 As Constructed



LEGEND	
(Solid line)	EXISTING SURFACE
(Dashed line)	DESIGN LINE
(Dotted line)	FUTURE DESIGN LINE
(Dash-dot line)	RIGHT LIP OF KERB
(Long-dash line)	LEFT LIP OF KERB
(Short-dash line)	RIGHT BUILDING LINE
(Long-short-dash line)	LEFT BUILDING LINE



PERRY STREET (NORTH OF TAGGERTY STREET) LONGITUDINAL SECTION



PERRY STREET LONGITUDINAL SECTION

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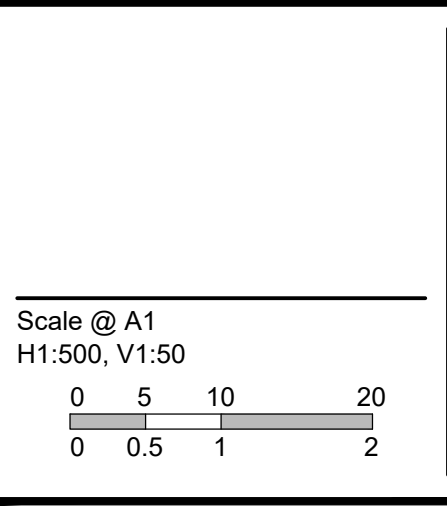
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REVISION	DATE	DES/DFT	APPD
4 AS CONSTRUCTED	17.08.18	HE	LV
3 ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV

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 B.Cheung  
 Drawn  
 S.Sathasivam  
 Checked  
 L.Vieyra  
 Authorised  
 S.Tsialtas  
 Date  
 May 2016



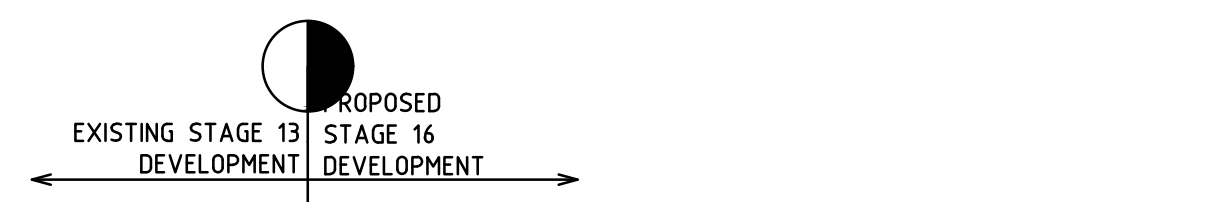
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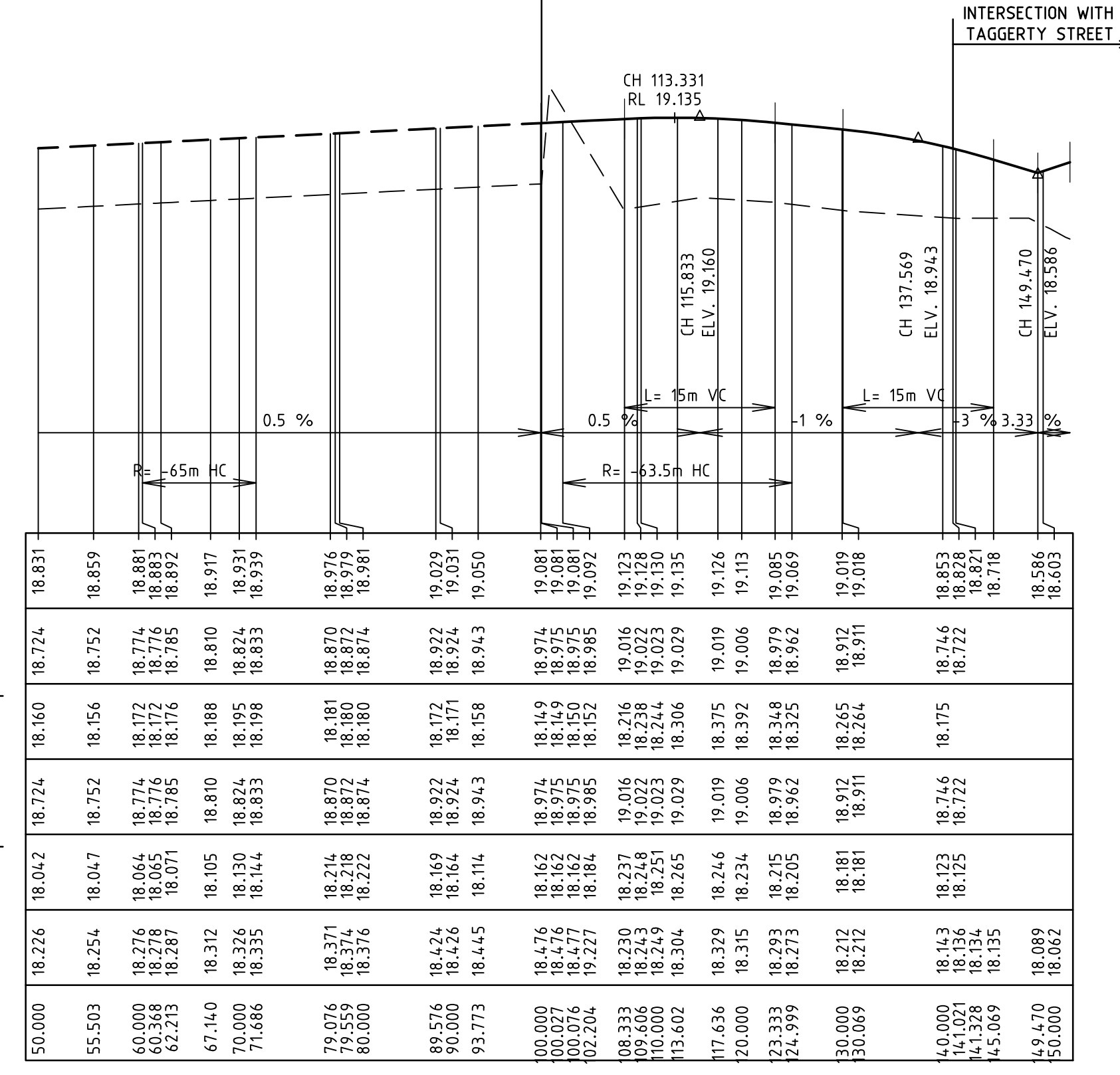
**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Longitudinal Sections - 2  
 Drawing No. 1932E-16-10  
 Sheet No. 10 of 33  
 Rev 4  
 As Constructed



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

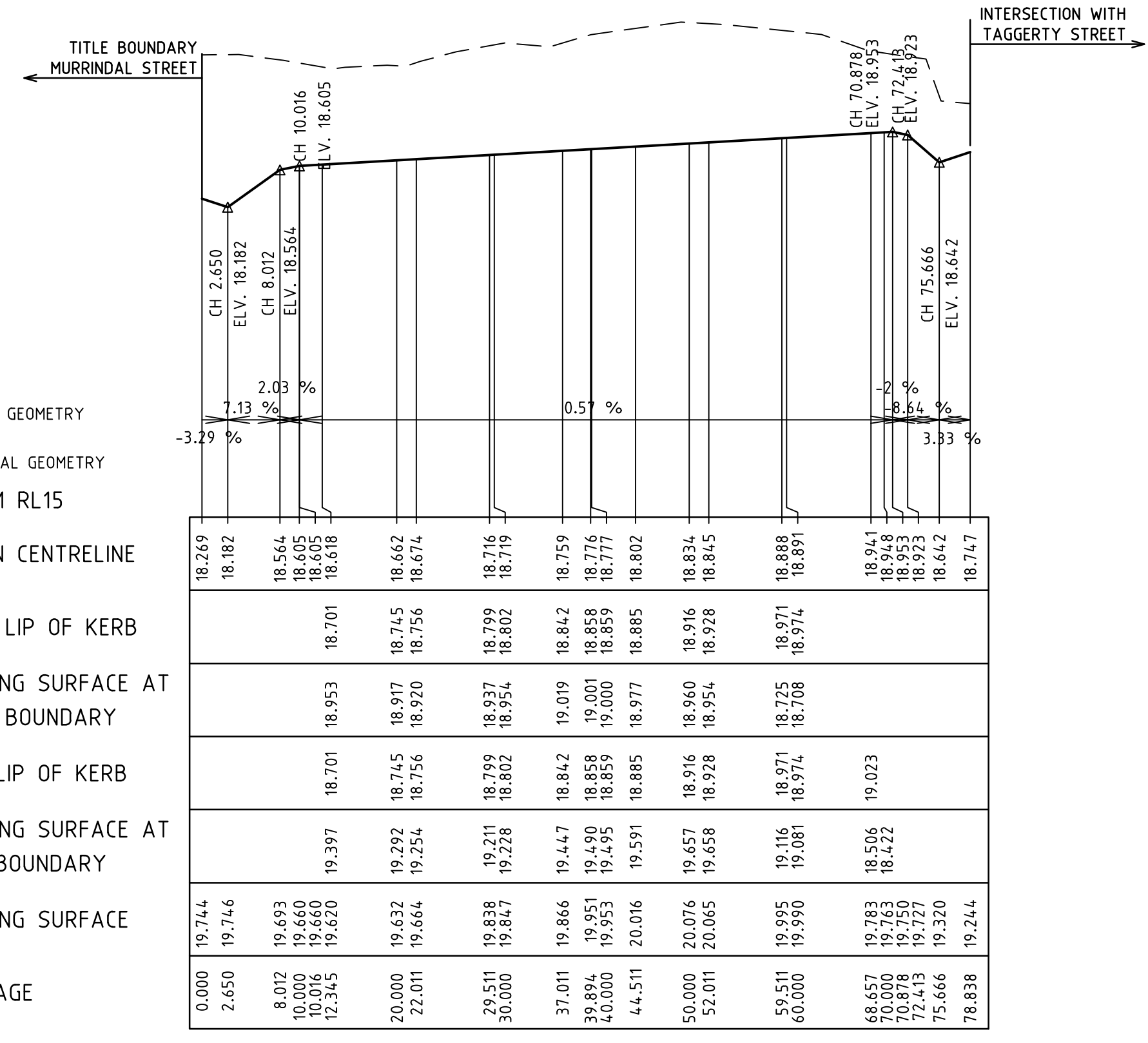


VERTICAL GEOMETRY  
 HORIZONTAL GEOMETRY  
 DATUM RL15  
 DESIGN CENTRELINE  
 RIGHT LIP OF KERB  
 EXISTING SURFACE AT RIGHT BOUNDARY  
 LEFT LIP OF KERB  
 EXISTING SURFACE AT LEFT BOUNDARY  
 EXISTING SURFACE  
 CHAINAGE



SHADY STREET LONGITUDINAL SECTION

VERTICAL GEOMETRY  
 HORIZONTAL GEOMETRY  
 DATUM RL15  
 DESIGN CENTRELINE  
 RIGHT LIP OF KERB  
 EXISTING SURFACE AT RIGHT BOUNDARY  
 LEFT LIP OF KERB  
 EXISTING SURFACE AT LEFT BOUNDARY  
 EXISTING SURFACE  
 CHAINAGE



DEPOT LANE LONGITUDINAL SECTION

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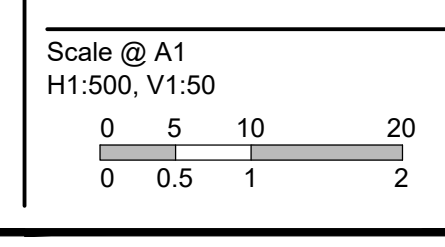
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4	AS CONSTRUCTED	17.08.18	HE	LV
3	ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV
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 Date  
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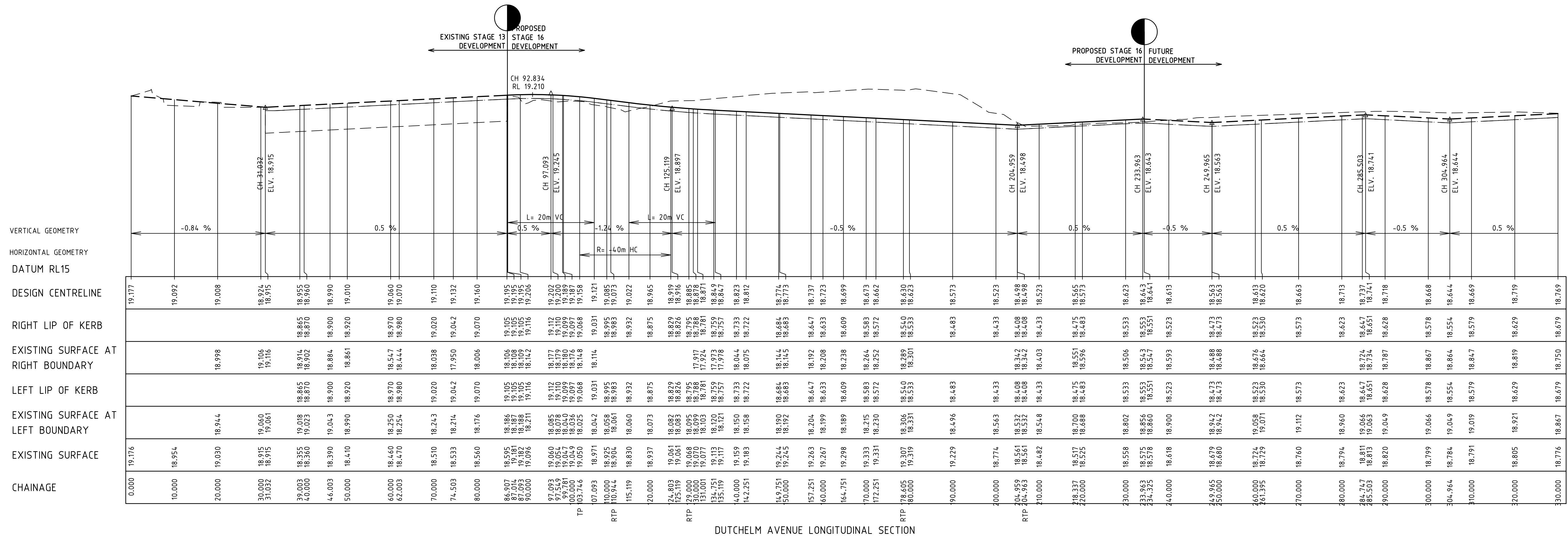
**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Longitudinal Sections - 3

**Drawing No. 1932E-16-11**      **Rev 4**  
 Sheet No. 11 of 33

**As Constructed**



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



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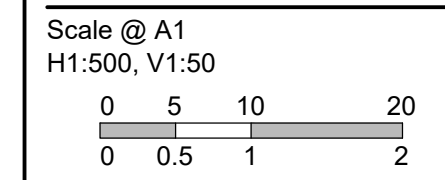
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4	AS CONSTRUCTED	17.08.18	HE	LV
3	ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV
REVISION		DATE	DES/DFT	APPD

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 710 Collins Street  
 Docklands, VIC - 3008

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 Drawn  
 S.Sathasivam  
 Checked  
 L.Vieyra  
 Authorised  
 S.Tsialtas  
 Date  
 May 2016



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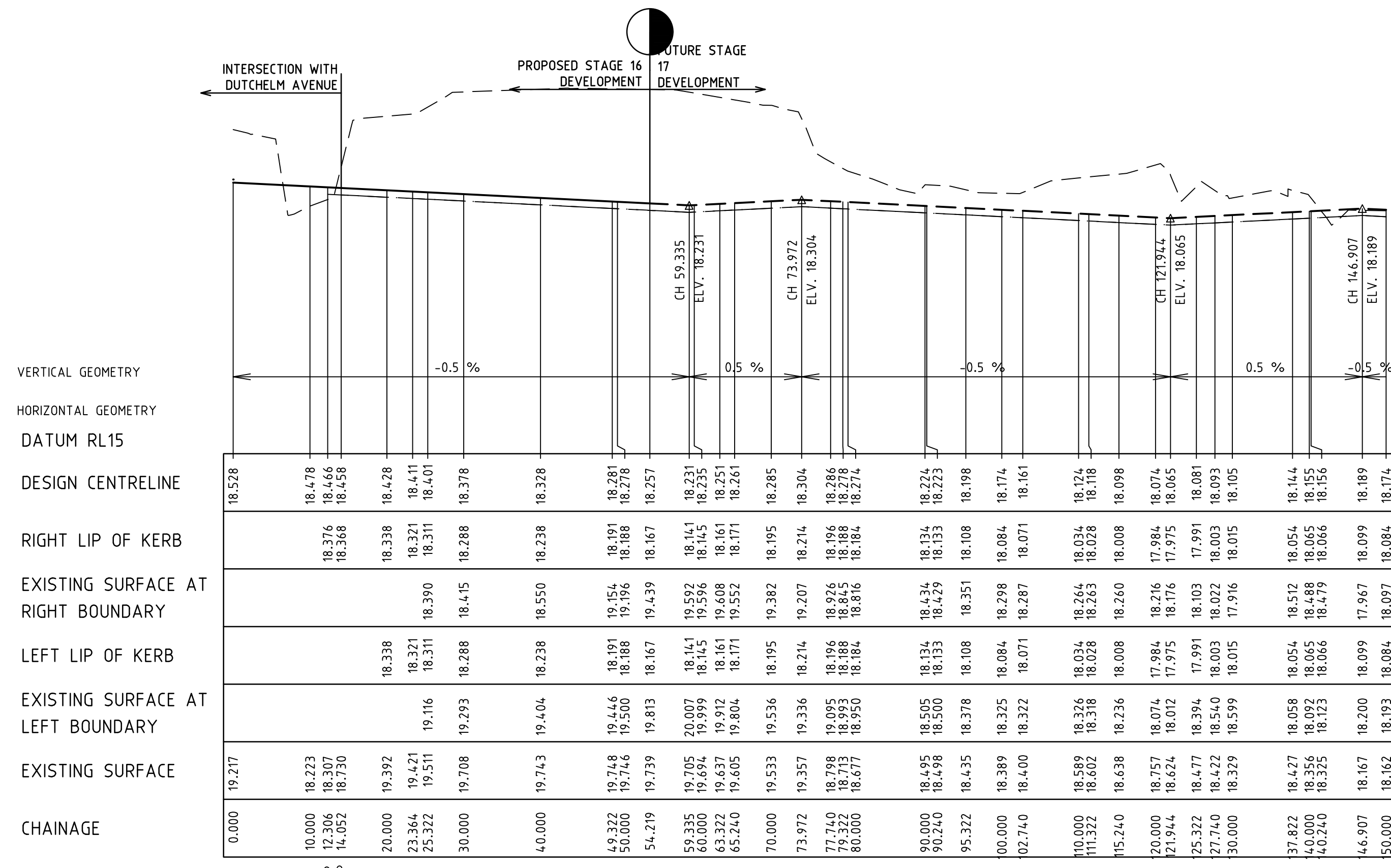
**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Longitudinal Sections - 4

**Drawing No. 1932E-16-12**      **Rev 4**  
 Sheet No. 12 of 33

**As Constructed**



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



MURRINDAL STREET LONGITUDINAL SECTION

**AS CONSTRUCTED PLANS**  
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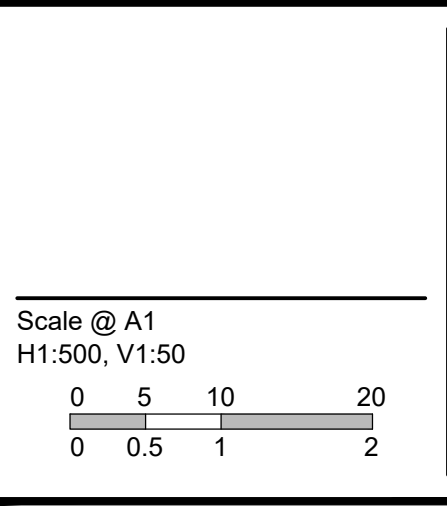
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REVISION	DATE	DES/DFT	APPD
4	17.08.18	HE	LV
3	17.11.17	NG/SS	LV

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 Docklands, VIC - 3008

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**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Longitudinal Sections - 5

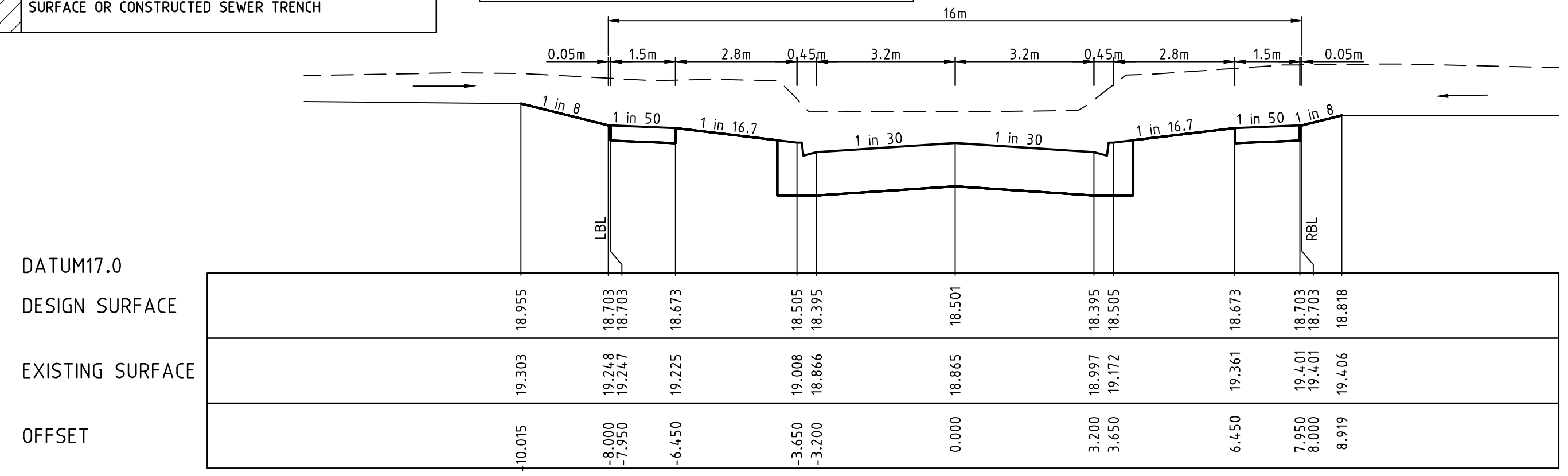
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 Sheet No. 13 of 33

**As Constructed**

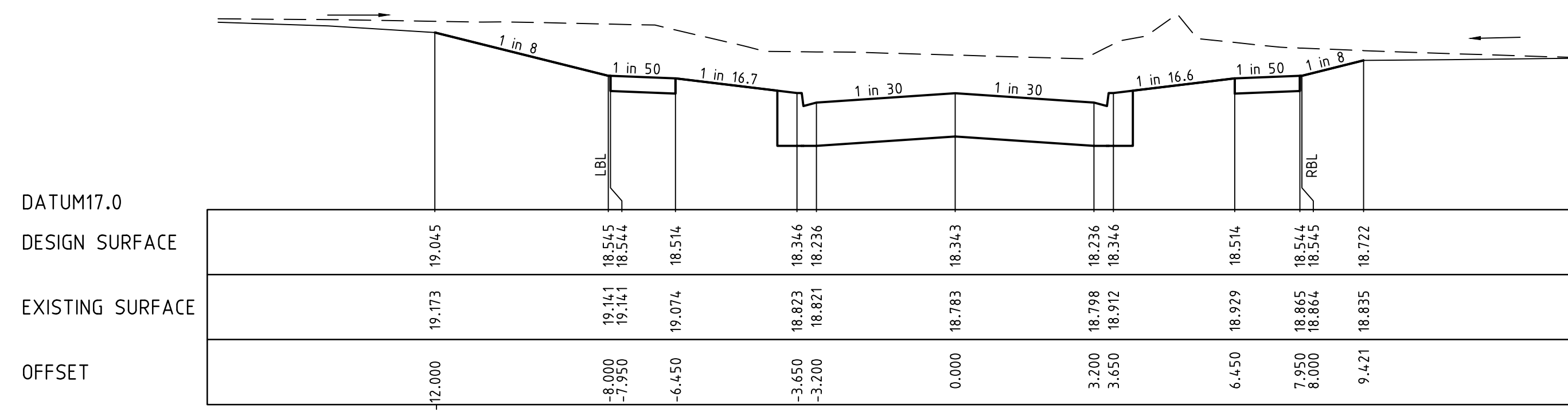


**LEGEND**  
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 --- DESIGN LINE  
 - - - FUTURE DESIGN LINE  
 CLASS 3 FCR COMPACTED TO MIN 98% DENSITY RATIO (MODIFIED) AS1289.5.2.1 REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE OR CONSTRUCTED SEWER TRENCH

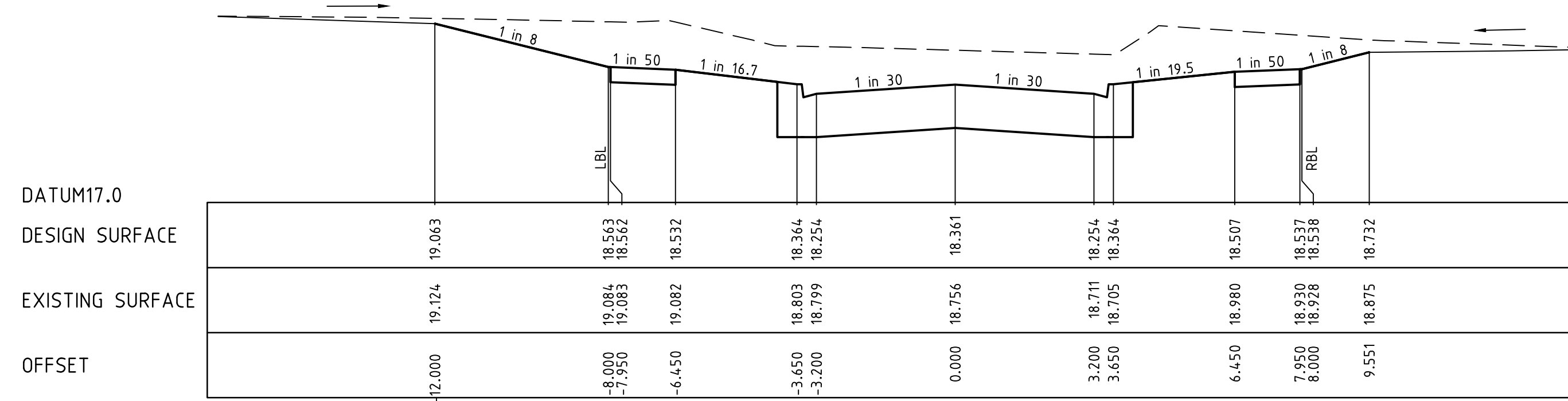
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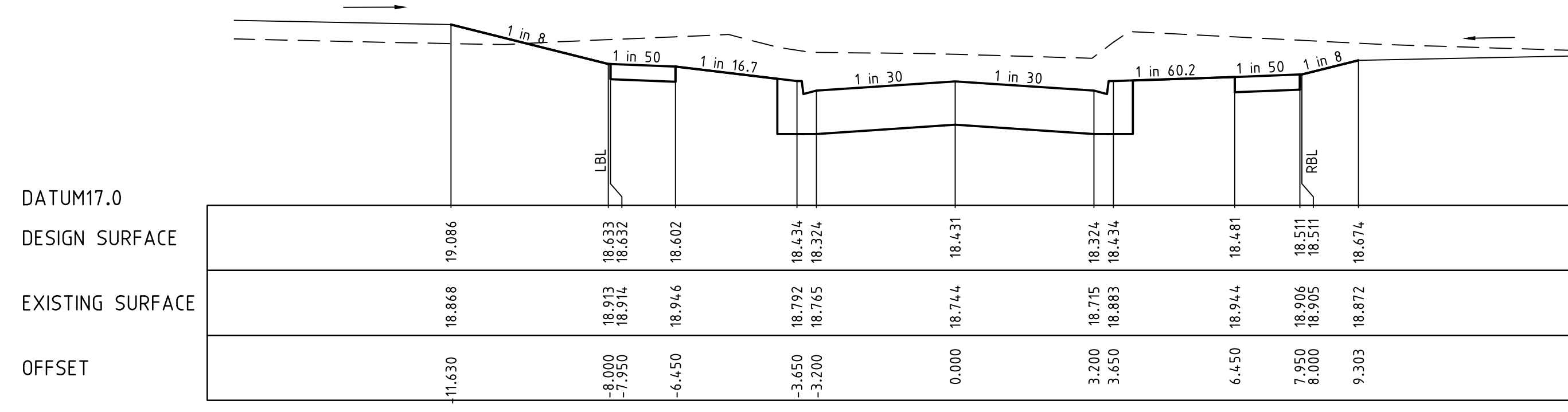
LTPCH 85.253



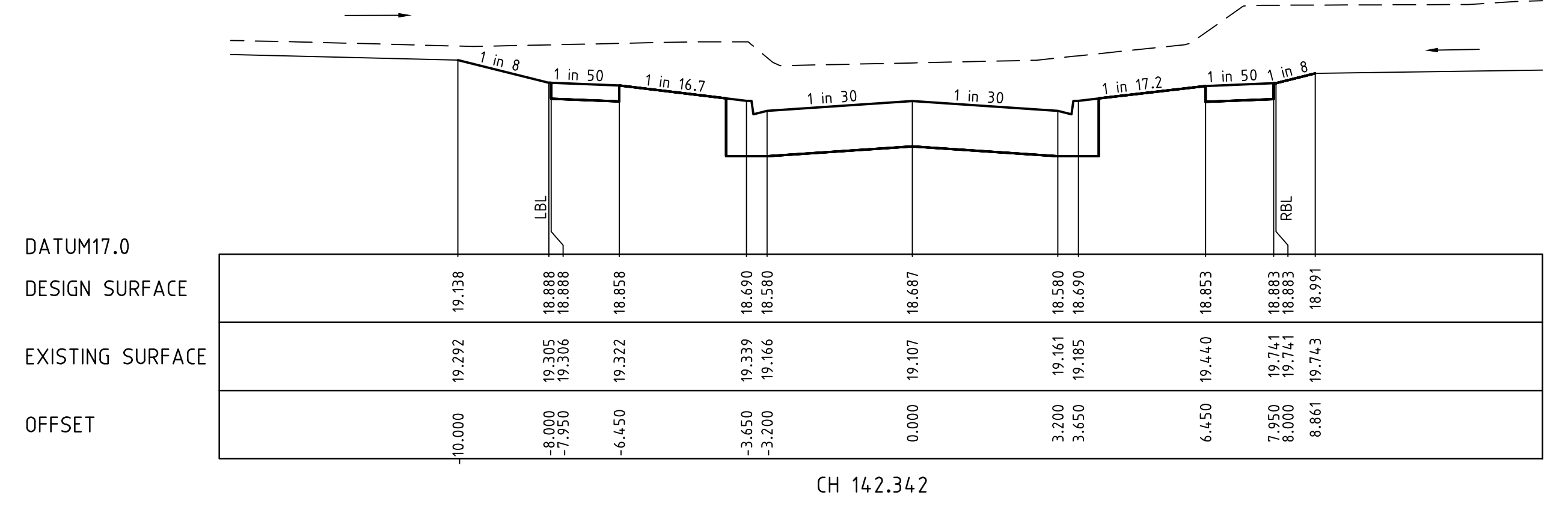
CH 53.504



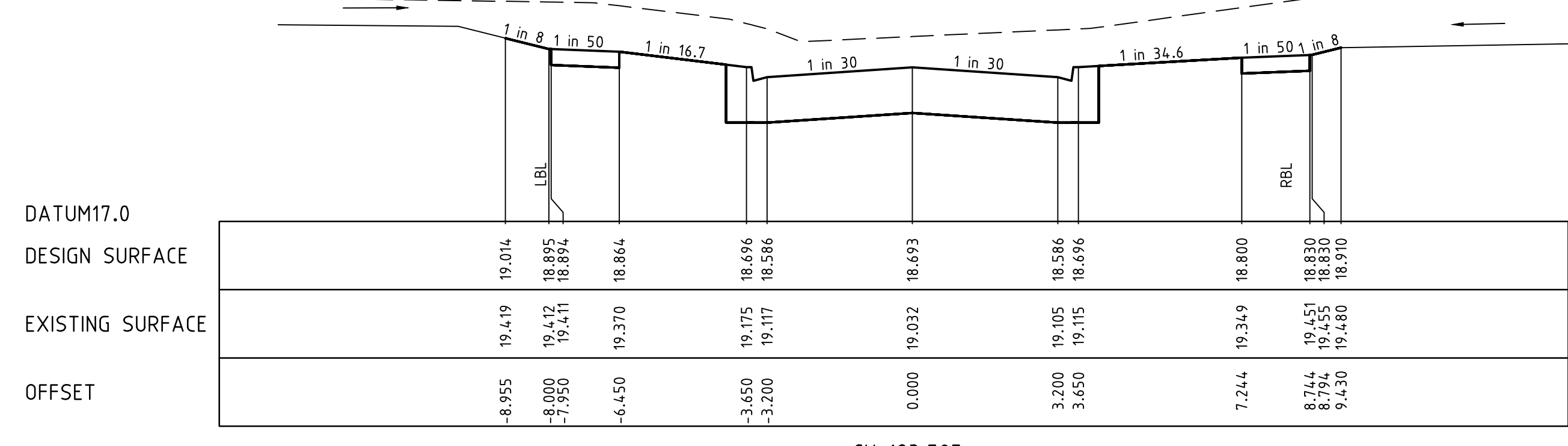
CH 49.891



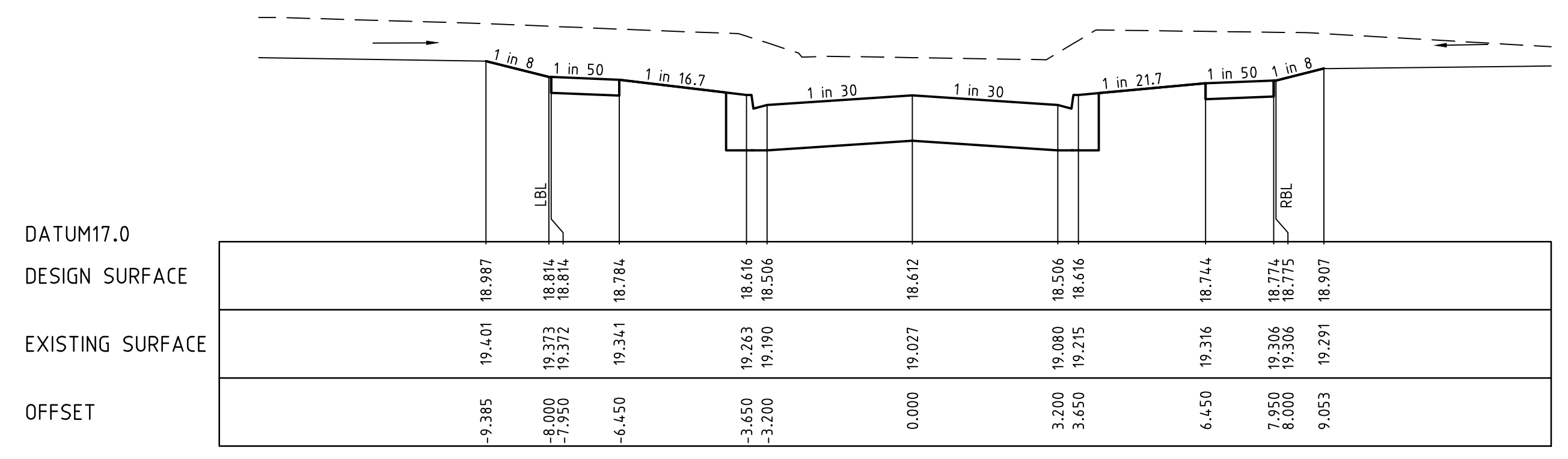
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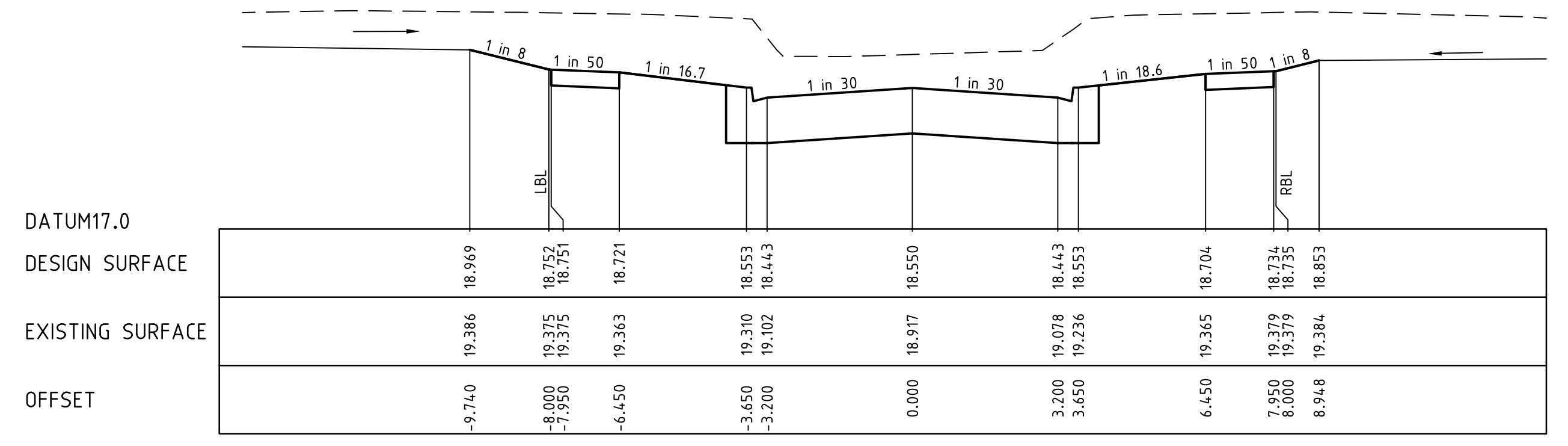
CH 142.342



CH 123.505



CH 107.410



CH 94.910

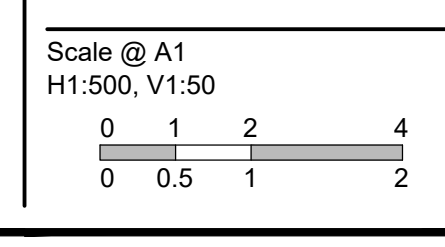
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5	AS CONSTRUCTED	17.08.18	HE	LV										
4	ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV										
REVISION		DATE	DES/DFT	APPD										



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S. Sathasivam  
 Checked  
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S. Tsialtas  
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May 2016



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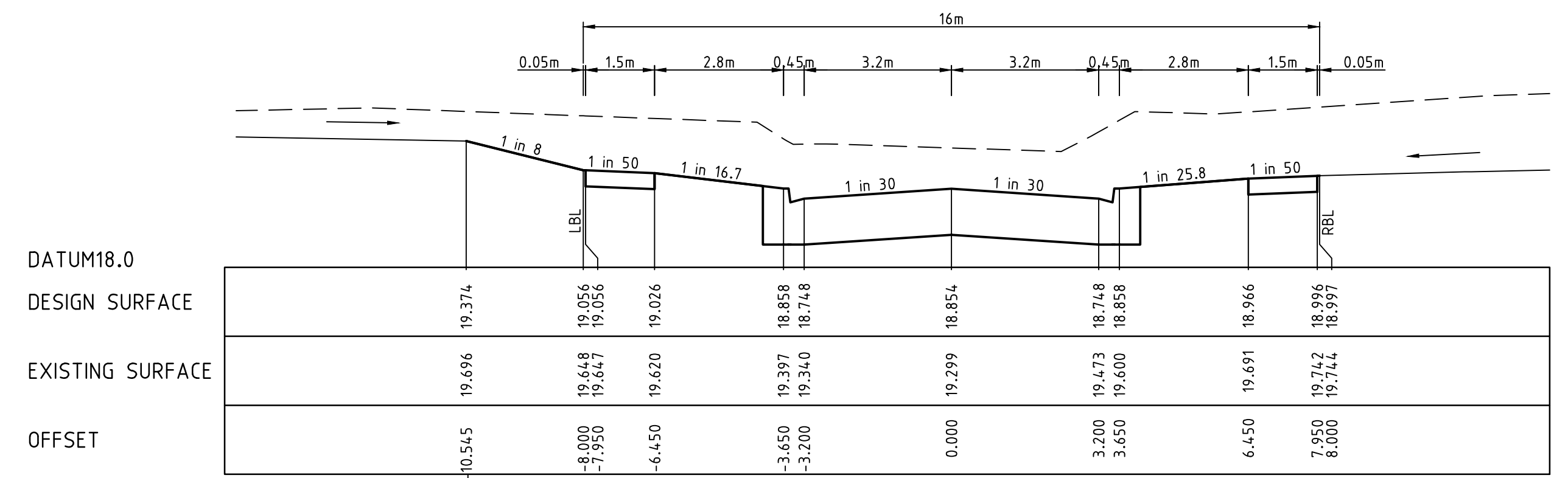


**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Cross Sections: Taggerty Street  
 Ch 35.891 - Ch 142.342  
**Drawing No. 1932E-16-14**  
 Sheet No. 14 of 33  
 Rev 5  
 As Constructed

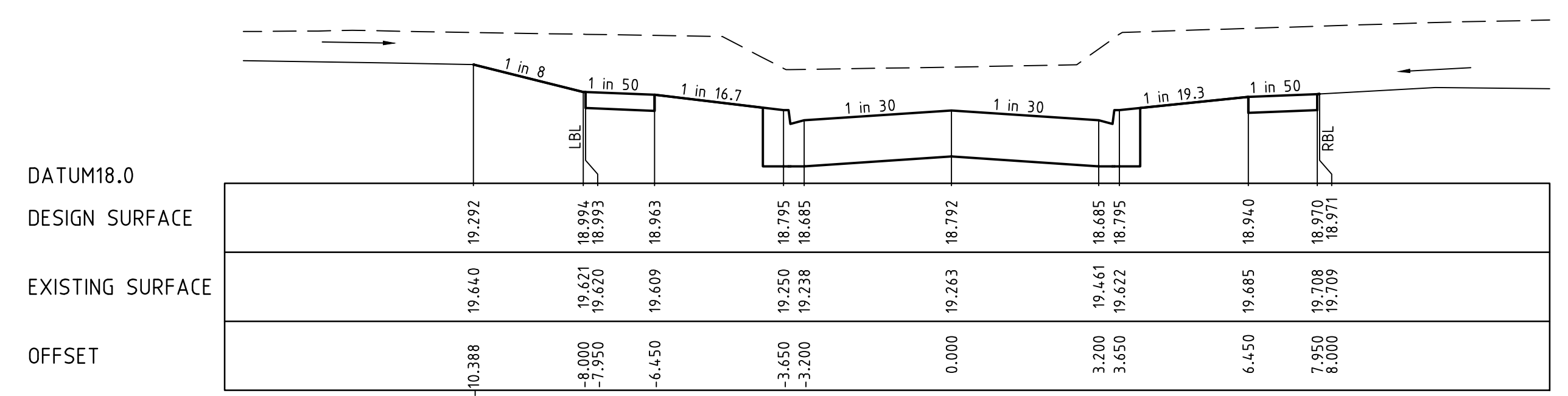


LEGEND	
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	DESIGN LINE
	FUTURE DESIGN LINE
	CLASS 3 FCR COMPACTED TO MIN 98% DENSITY RATIO (MODIFIED) AS1289.5.2.1 REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE OR CONSTRUCTED SEWER TRENCH

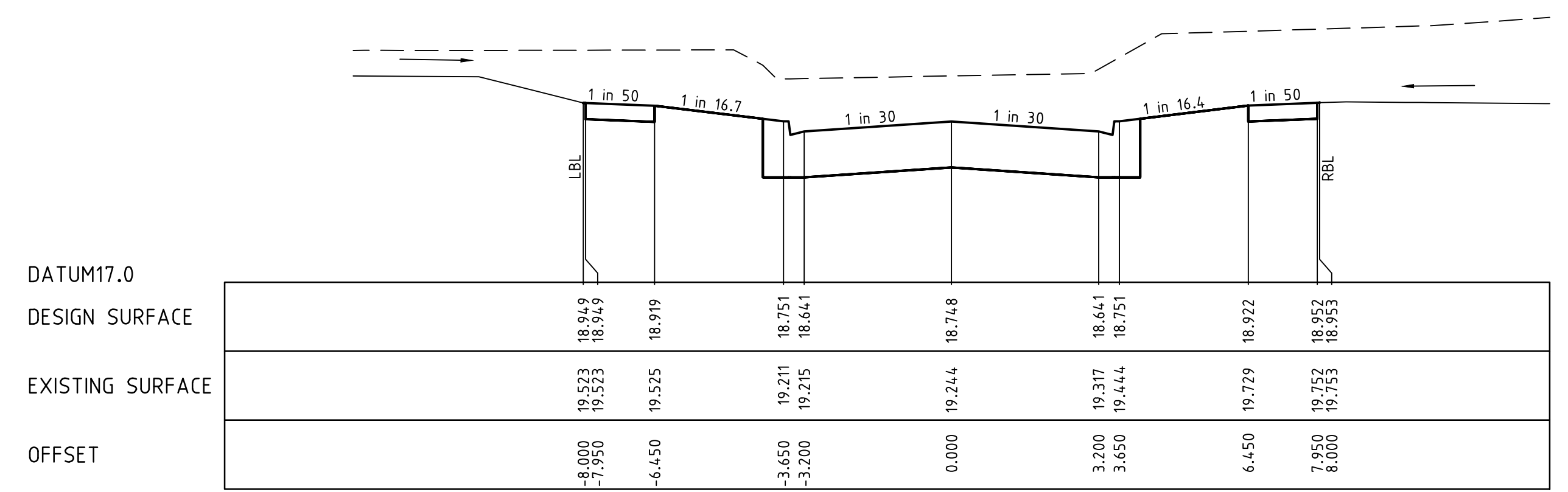
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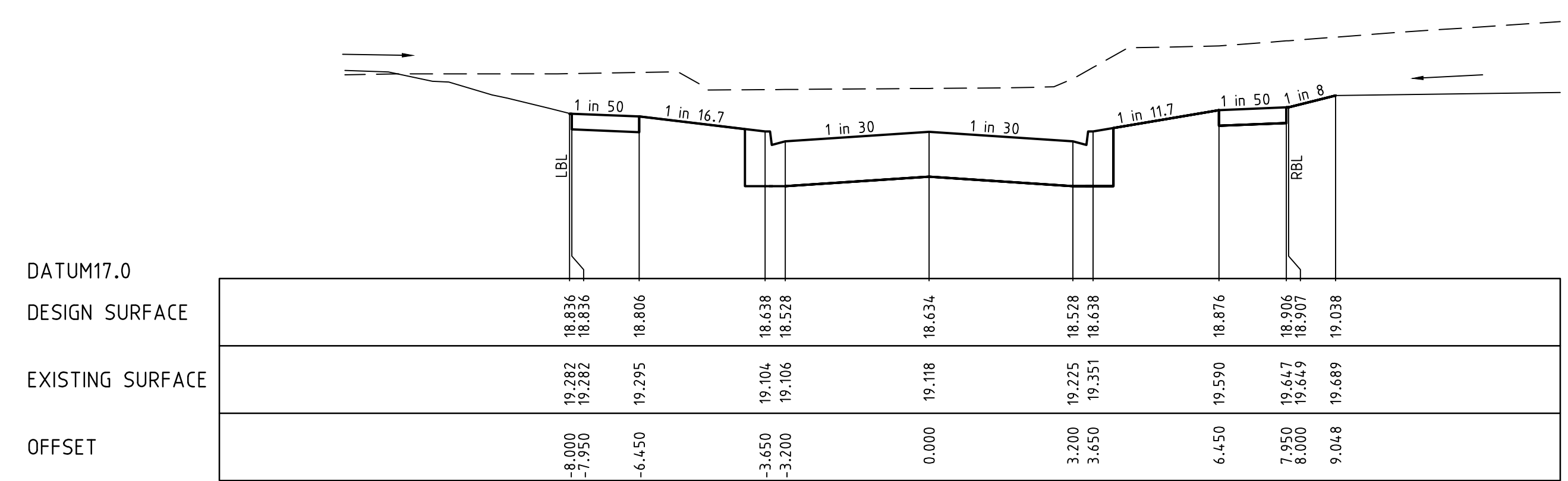
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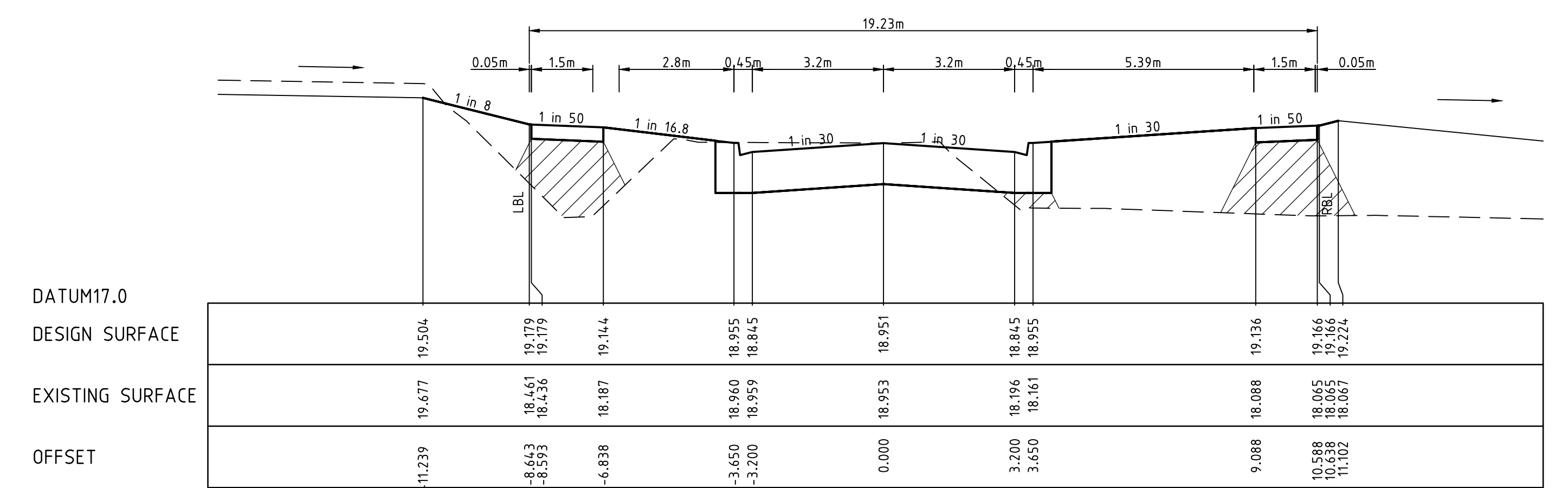
CH 185.234



LTPCH 176.358



LTPCH 153.692



TPCH 217.091

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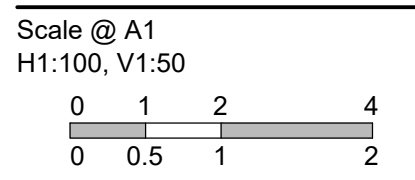
REVISION	DATE	DES/DFT	APPD
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**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Cross Sections: Taggerty Street  
 Ch 153.692 - Ch 217.091  
**Drawing No. 1932E-16-15**  
 Sheet No. 15 of 33

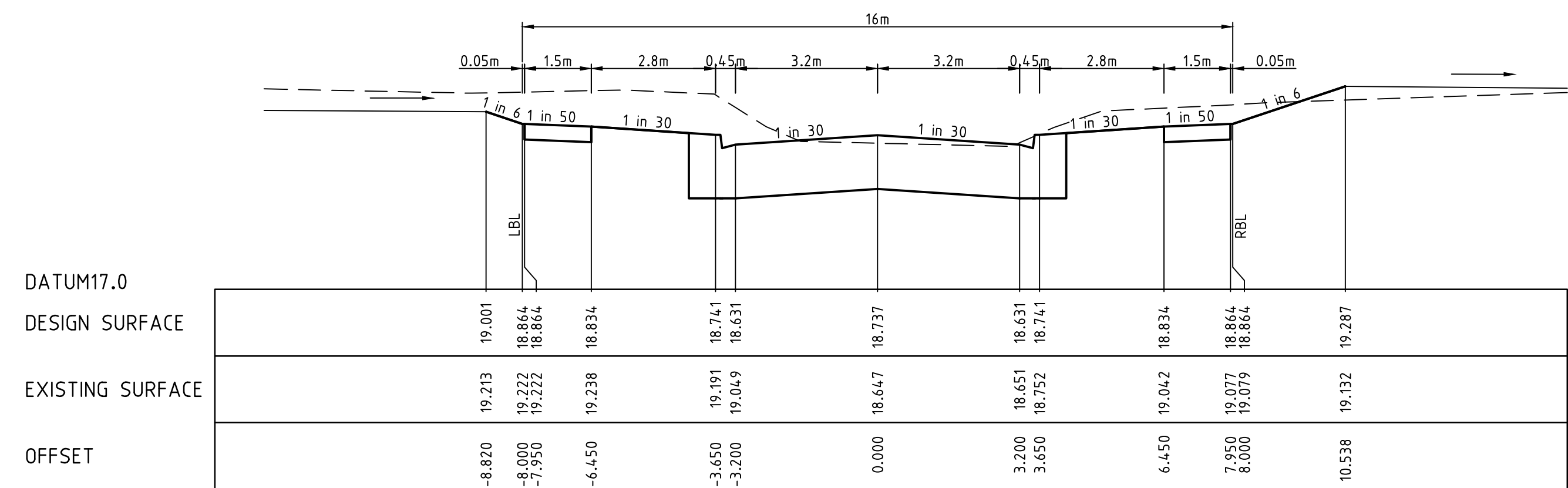
Rev 5

As Constructed

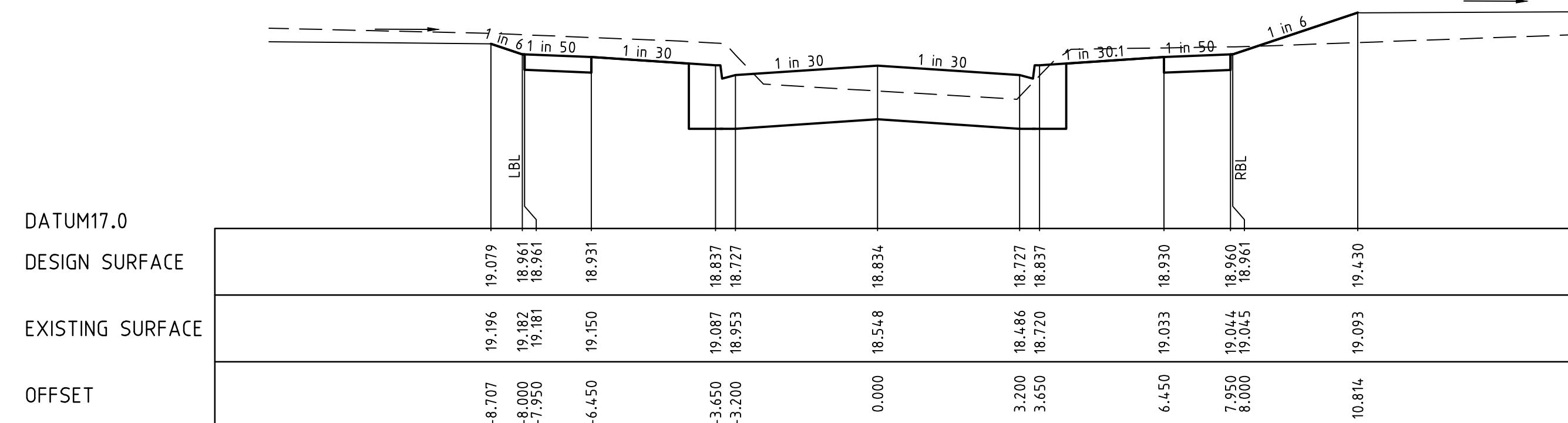


LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
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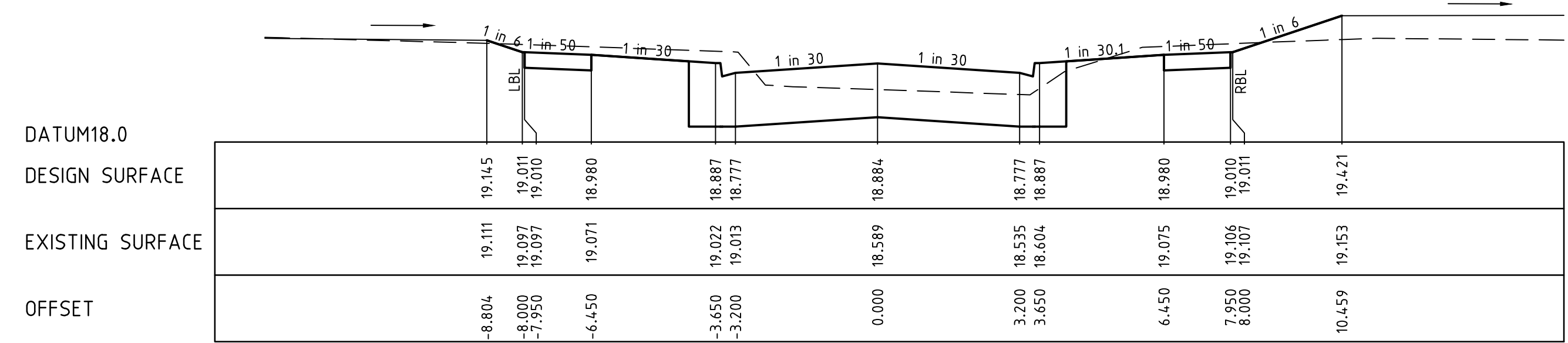
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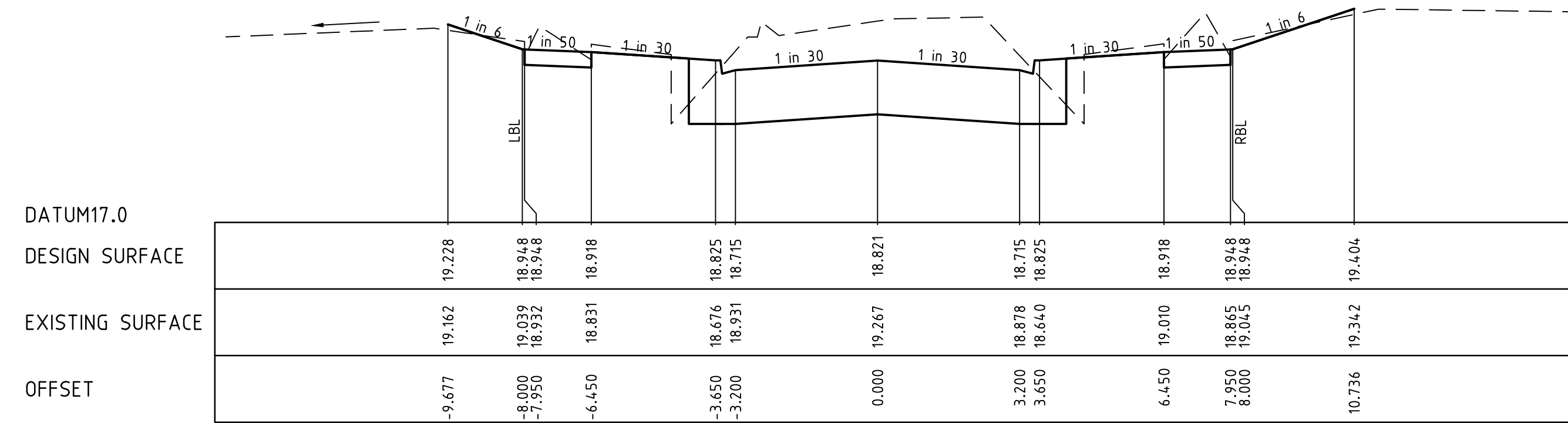
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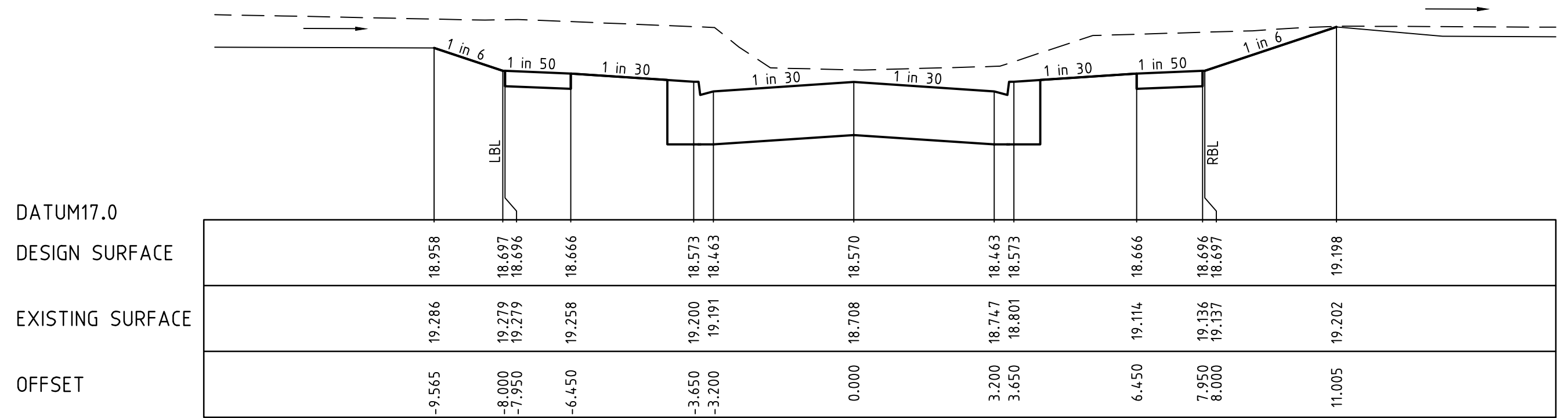
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CH 134.840



CH 122.339



TPCH 168.715

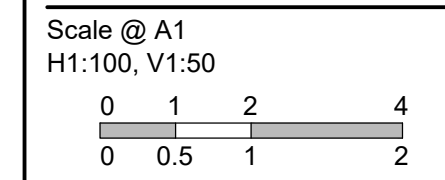
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REVISION	DATE	DES/DFT	APPD
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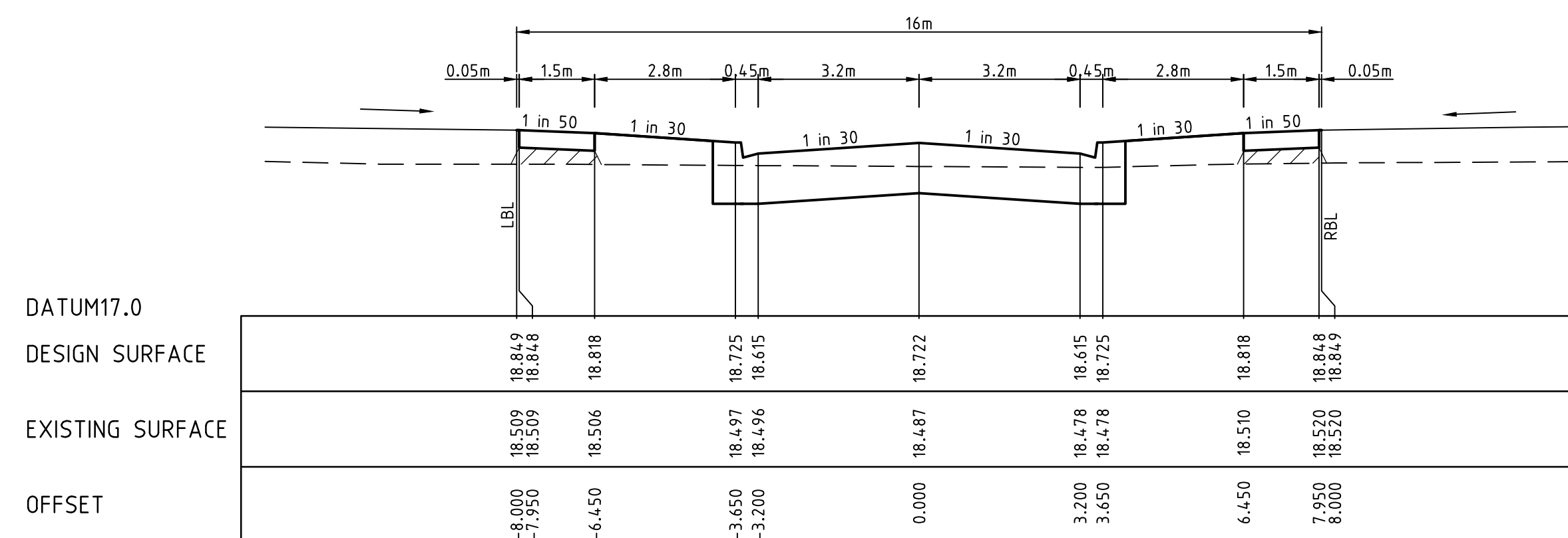
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 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Cross Sections: Perry Road  
 (South of Taggery St)  
**Drawing No. 1932E-16-16** **Rev 5**  
 Sheet No. 16 of 33  
**As Constructed**

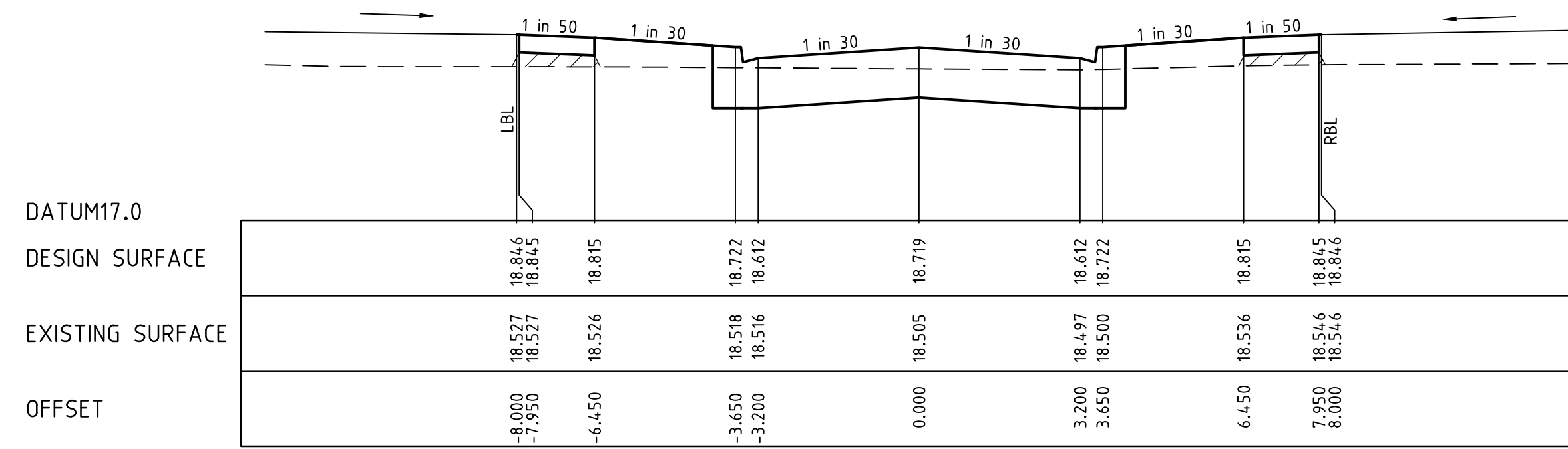


LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	CLASS 3 FCR COMPACTED TO MIN 98% DENSITY RATIO (MODIFIED) AS1289.5.2.1 REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE OR CONSTRUCTED SEWER TRENCH

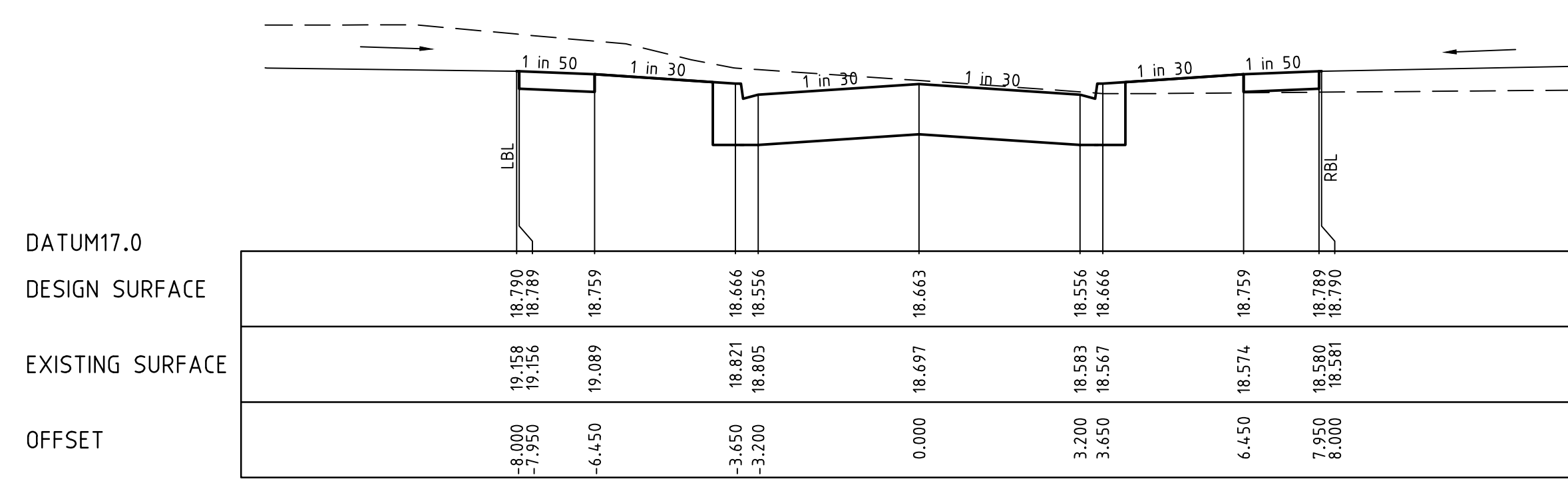
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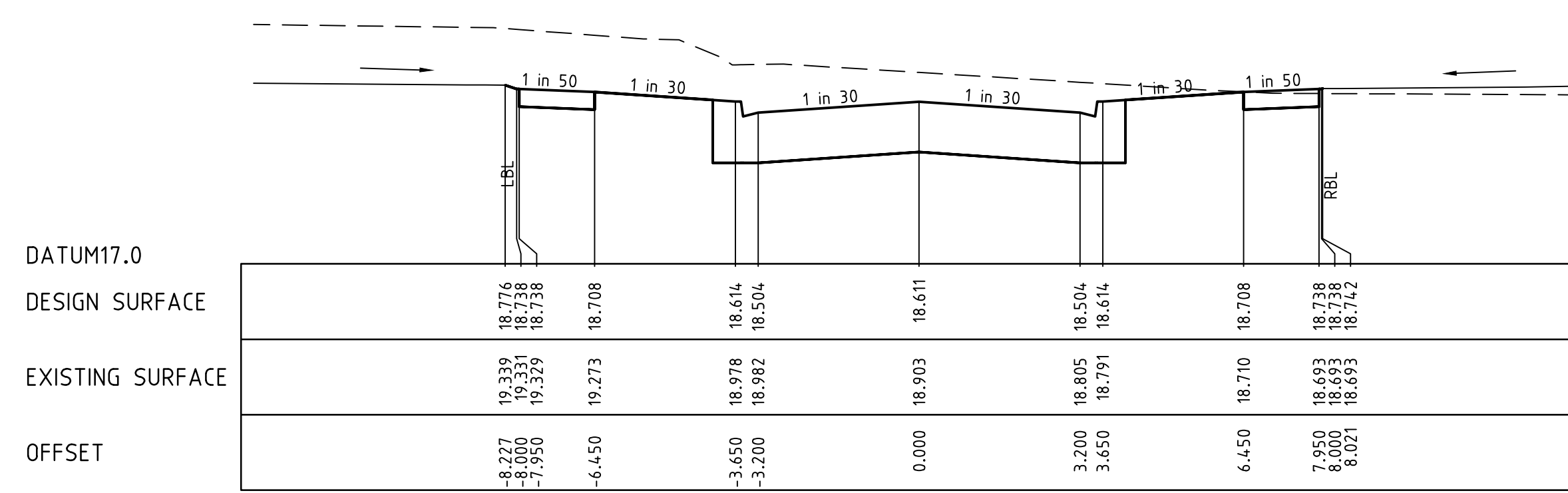
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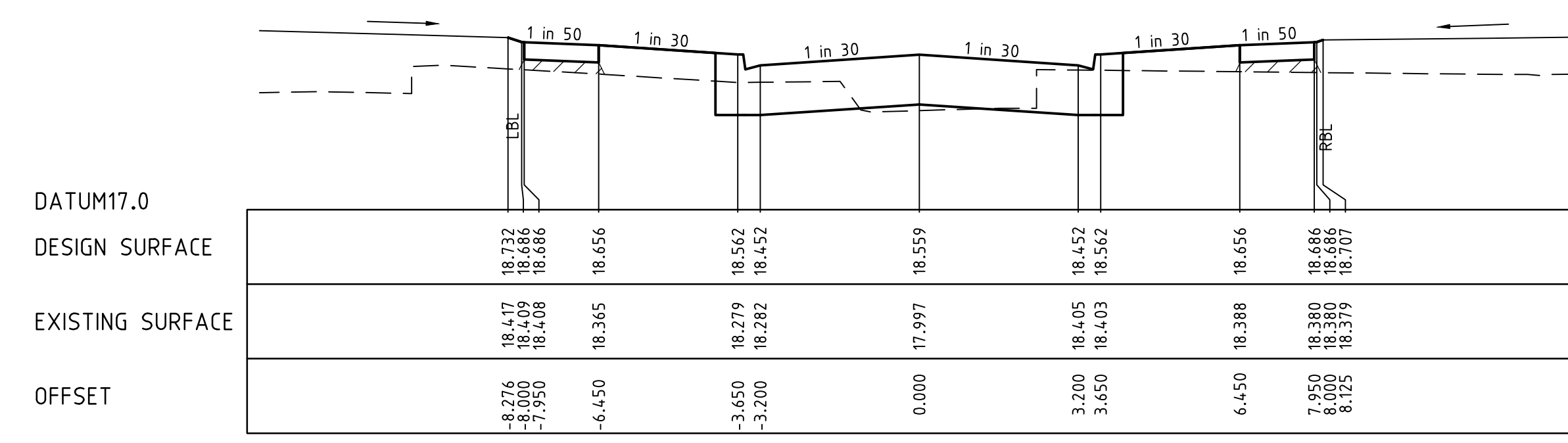
CH 36.785



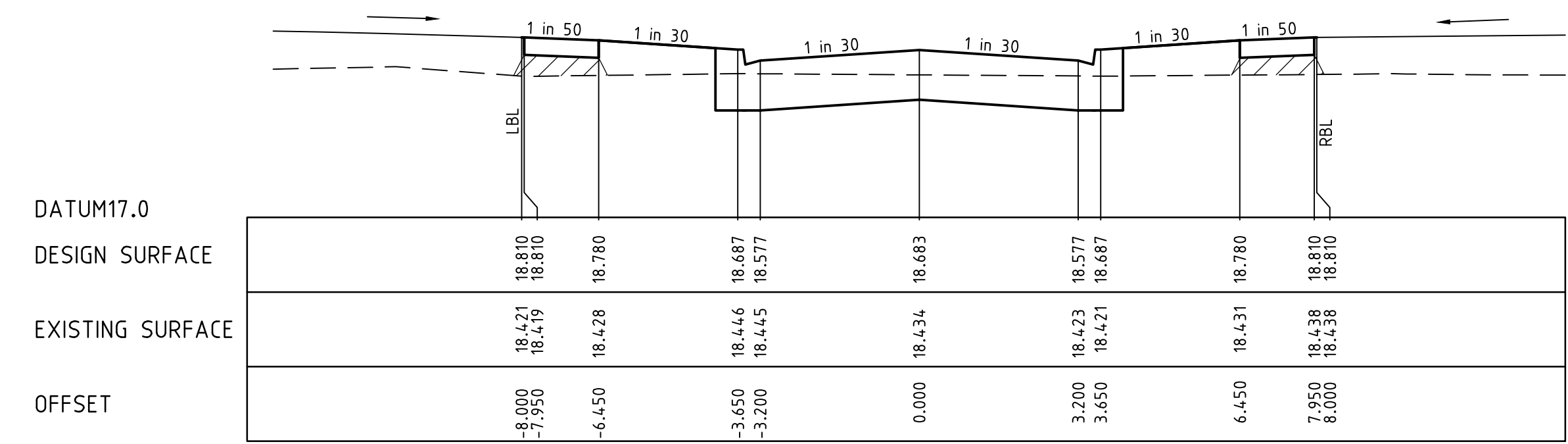
CH 25.000



TPCH 14.687



CH 60.635



CH 48.135

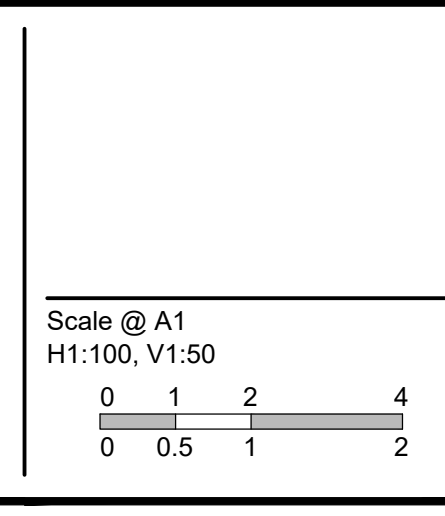
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REVISION	DATE	DES/DFT	APPD
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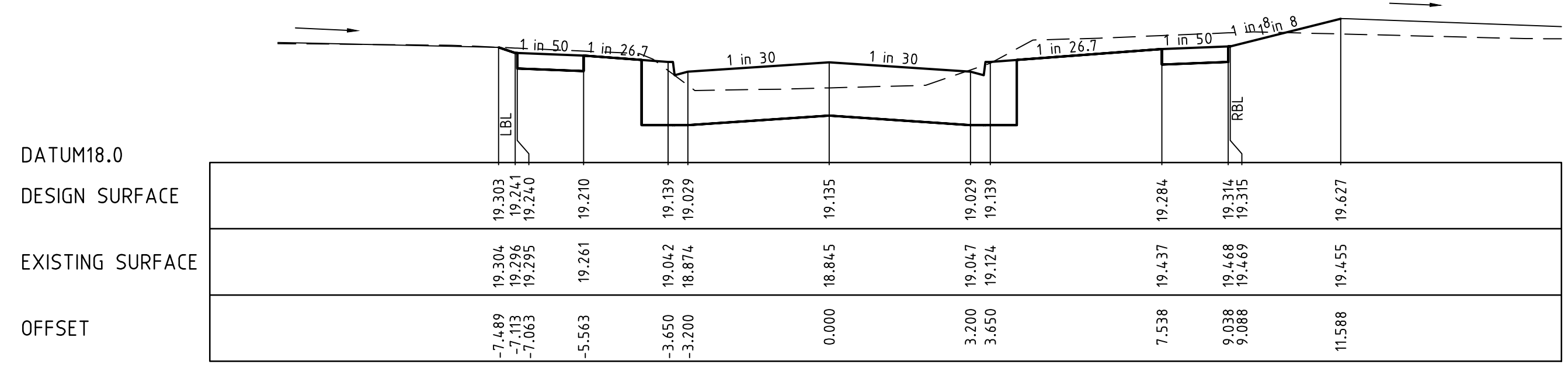
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**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Cross Sections: Perry Road  
 (North of Taggerty St)  
**Drawing No. 1932E-16-17**  
 Sheet No. 17 of 33  
**Rev 5**  
**As Constructed**

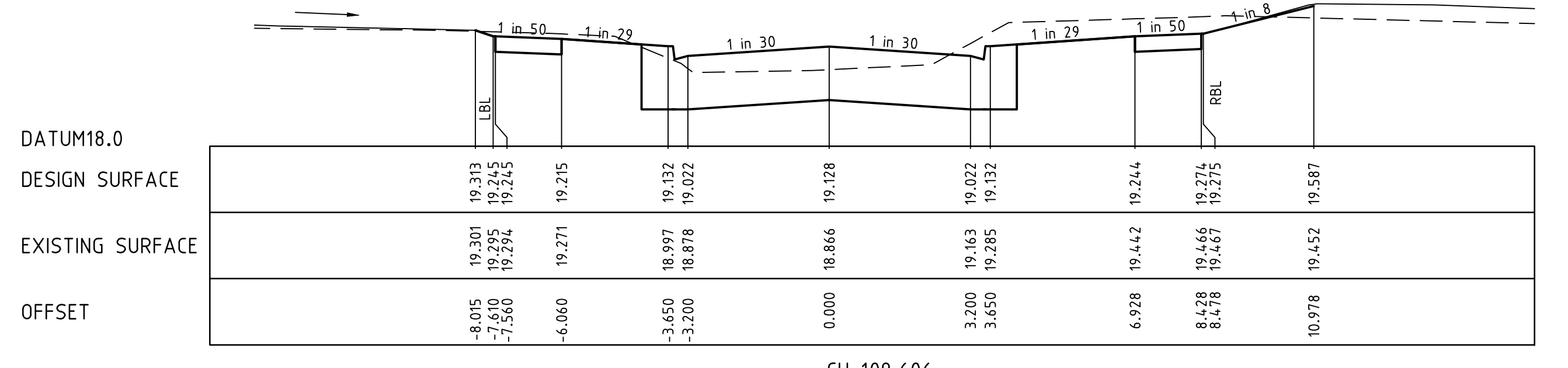


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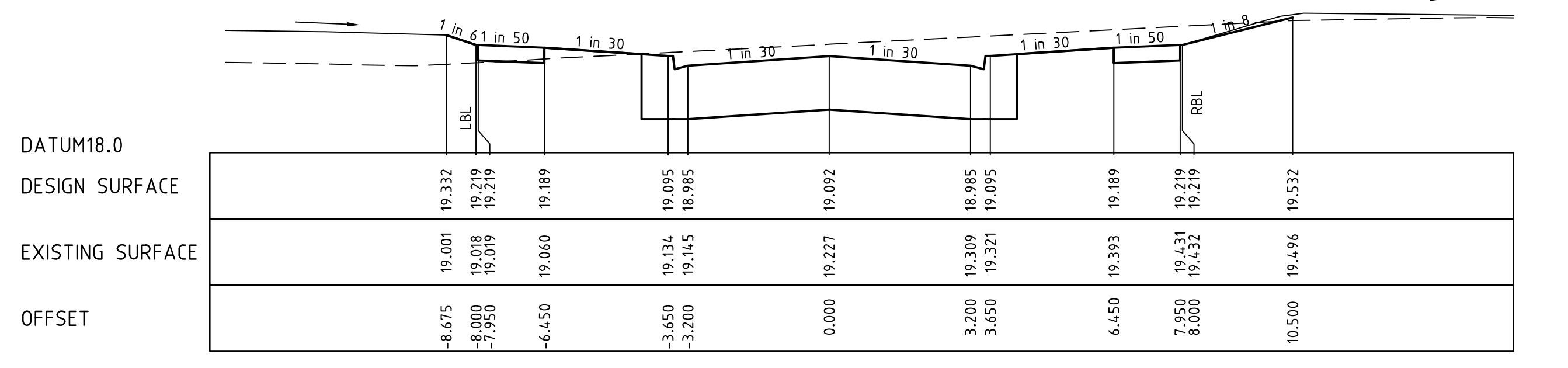
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	FUTURE DESIGN LINE
	CLASS 3 FCR COMPACTED TO MIN 98% DENSITY RATIO (MODIFIED) AS1289.5.2.1 REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE OR CONSTRUCTED SEWER TRENCH



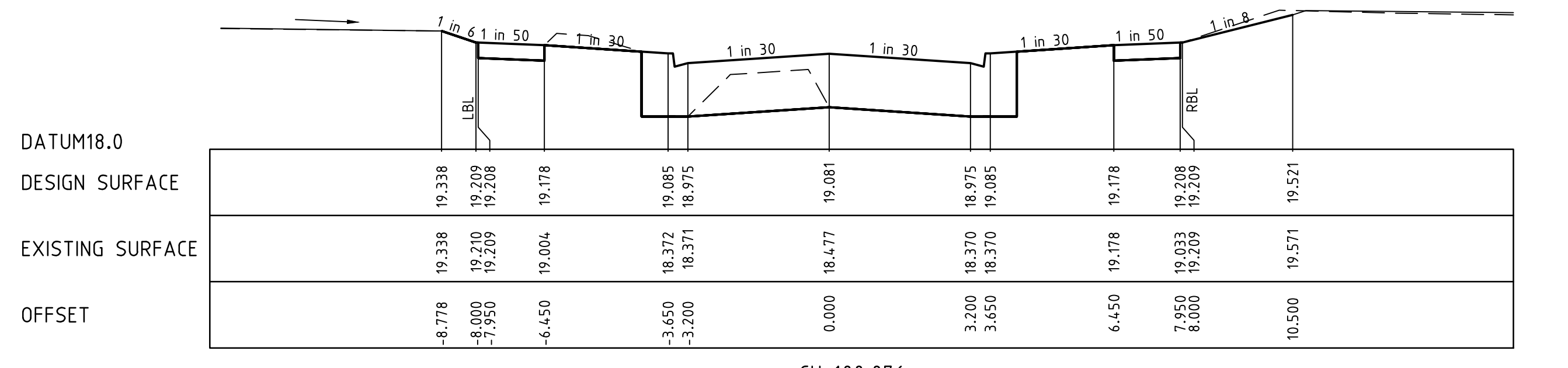
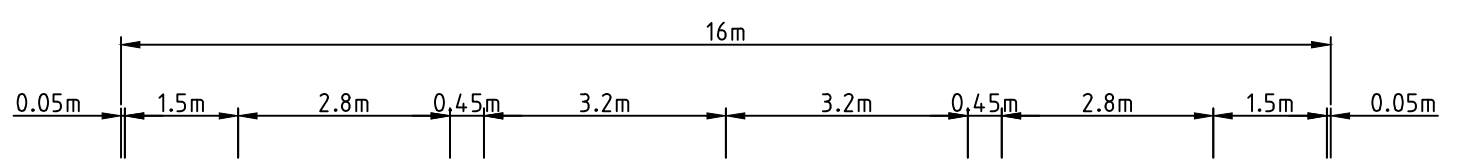
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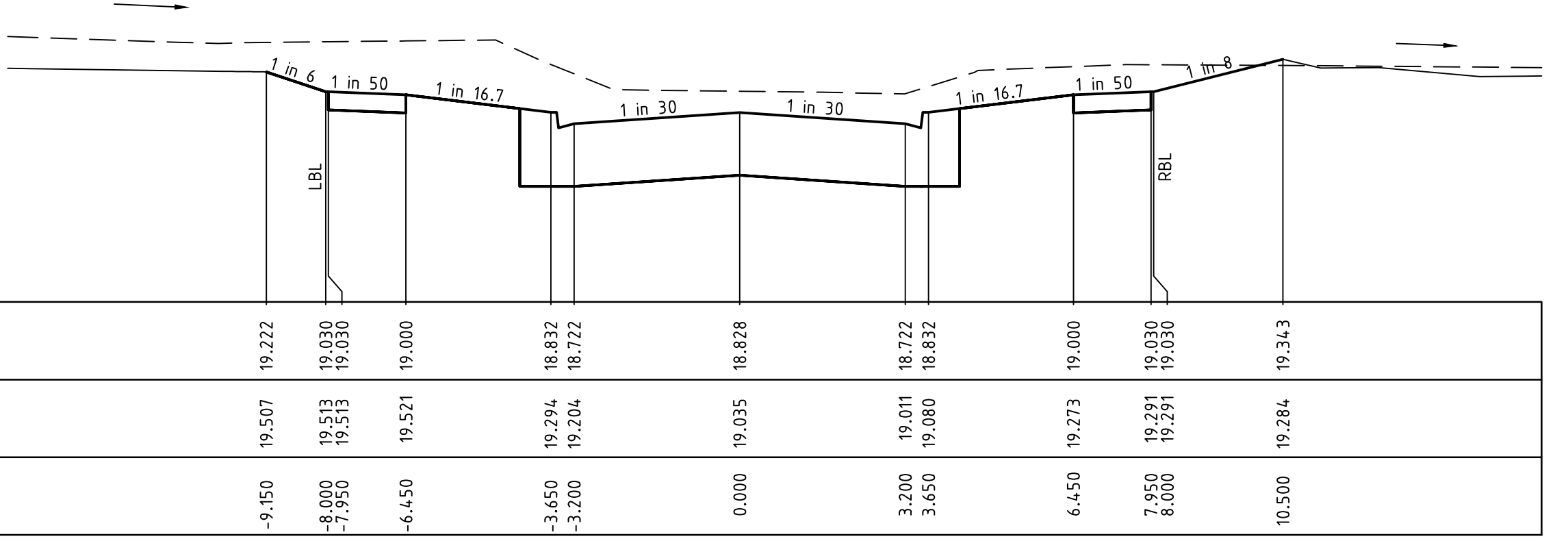
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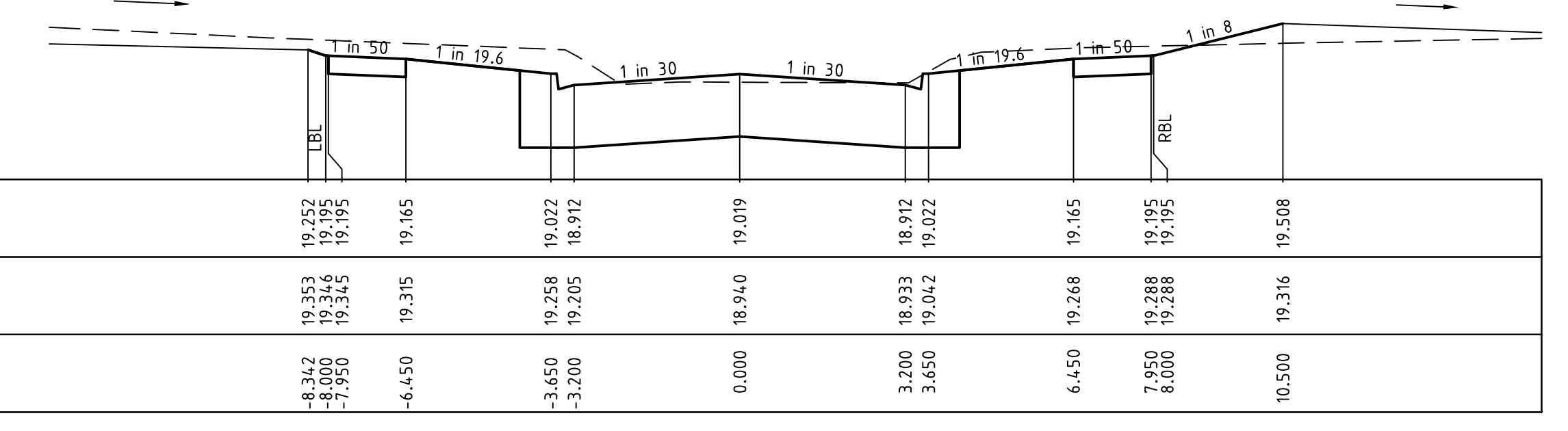
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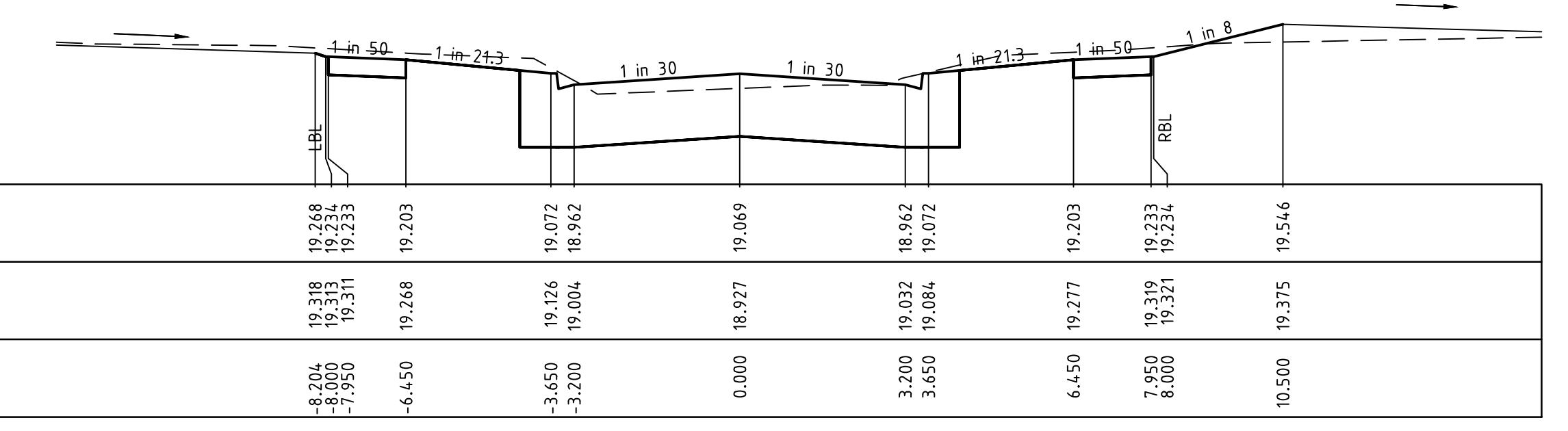
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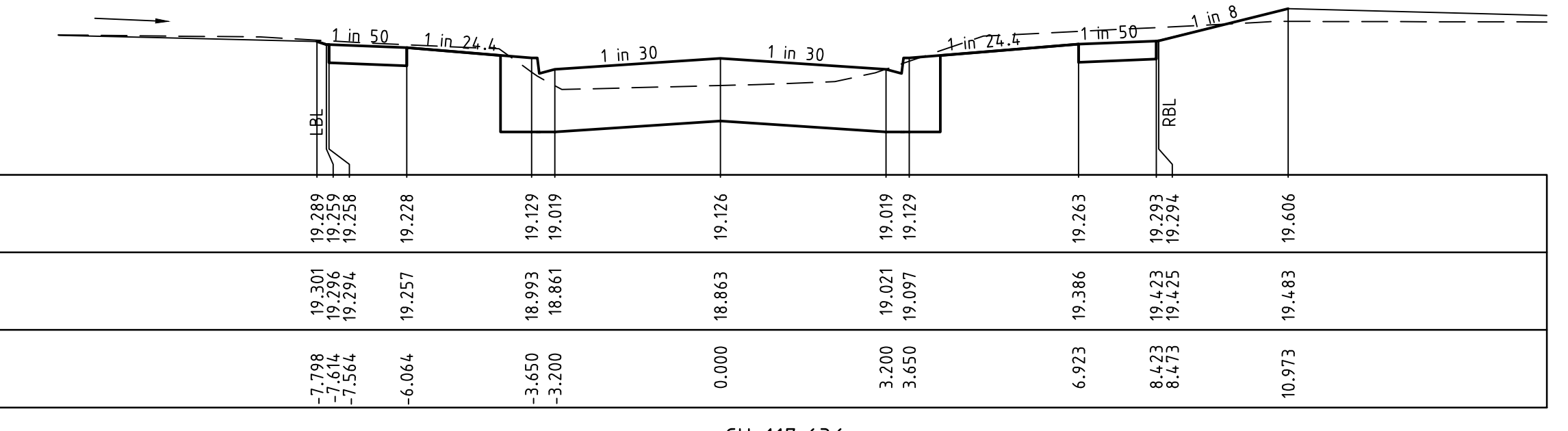
RTPCH 141.021



CH 130.000



TPCH 124.999



CH 117.636

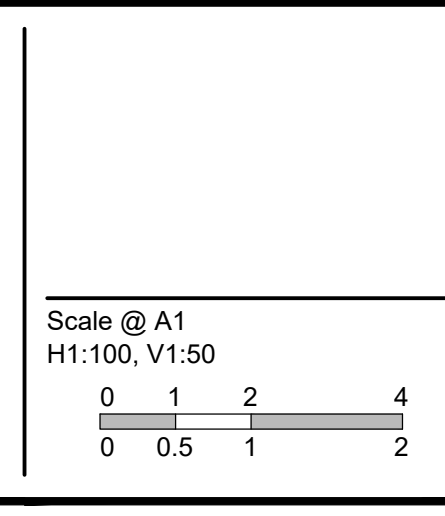
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REVISION	DATE	DES/DFT	APPD
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**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Cross Sections: Shady Street

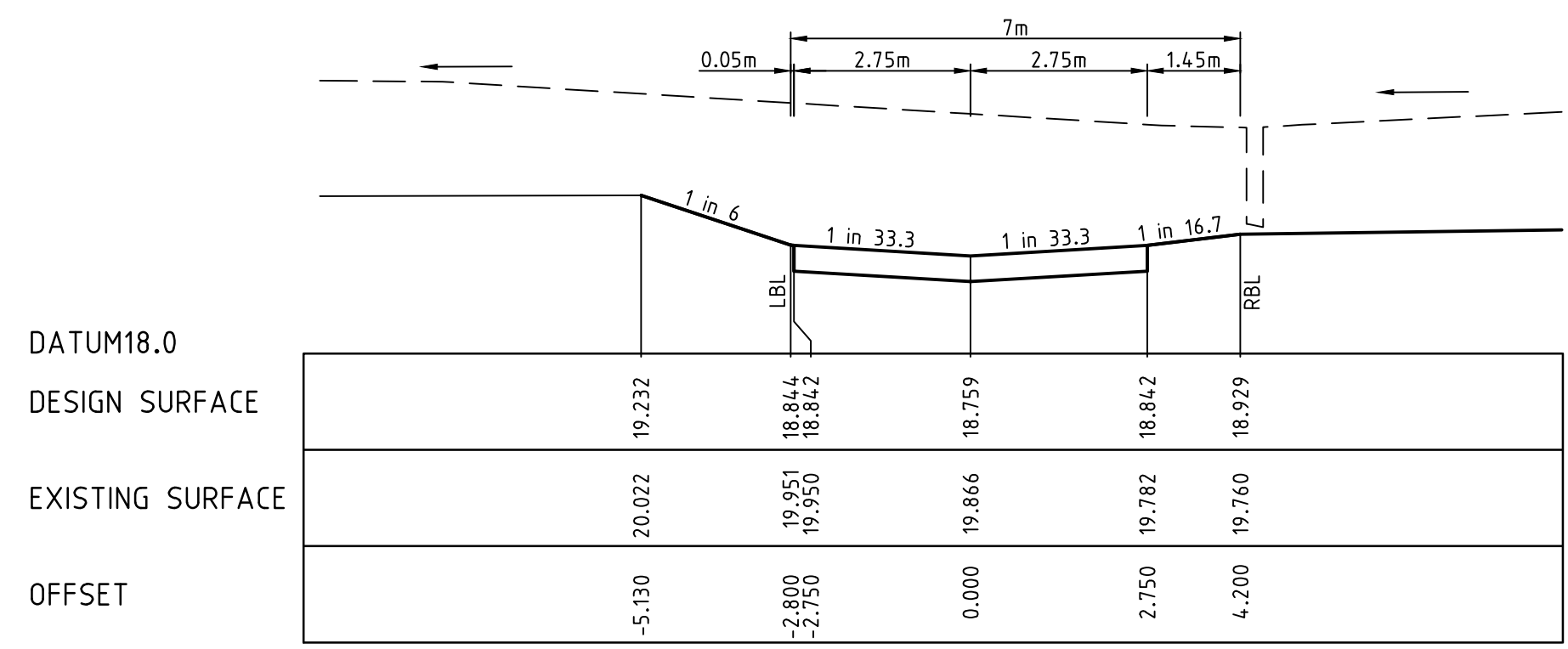
Drawing No. 1932E-16-18  
 Sheet No. 18 of 33

Rev 5  
 As Constructed

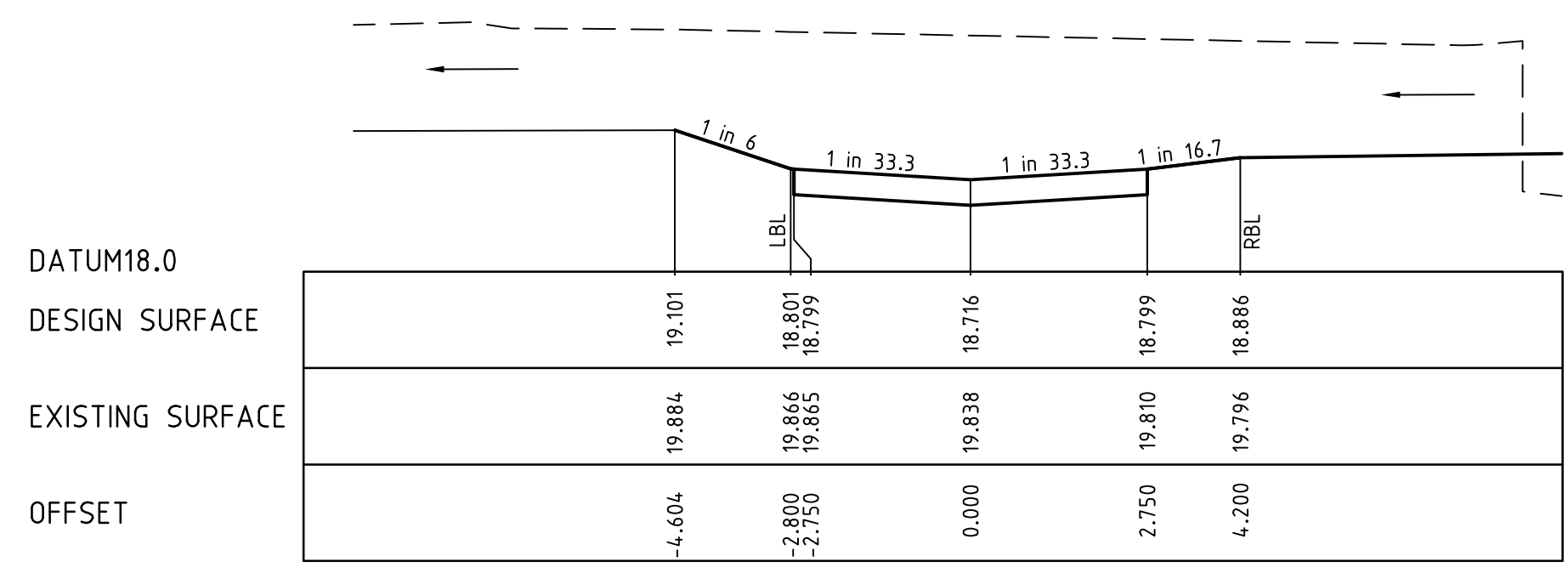


LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	CLASS 3 FCR COMPACTED TO MIN 98% DENSITY RATIO (MODIFIED) AS1289.5.2.1 REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE OR CONSTRUCTED SEWER TRENCH

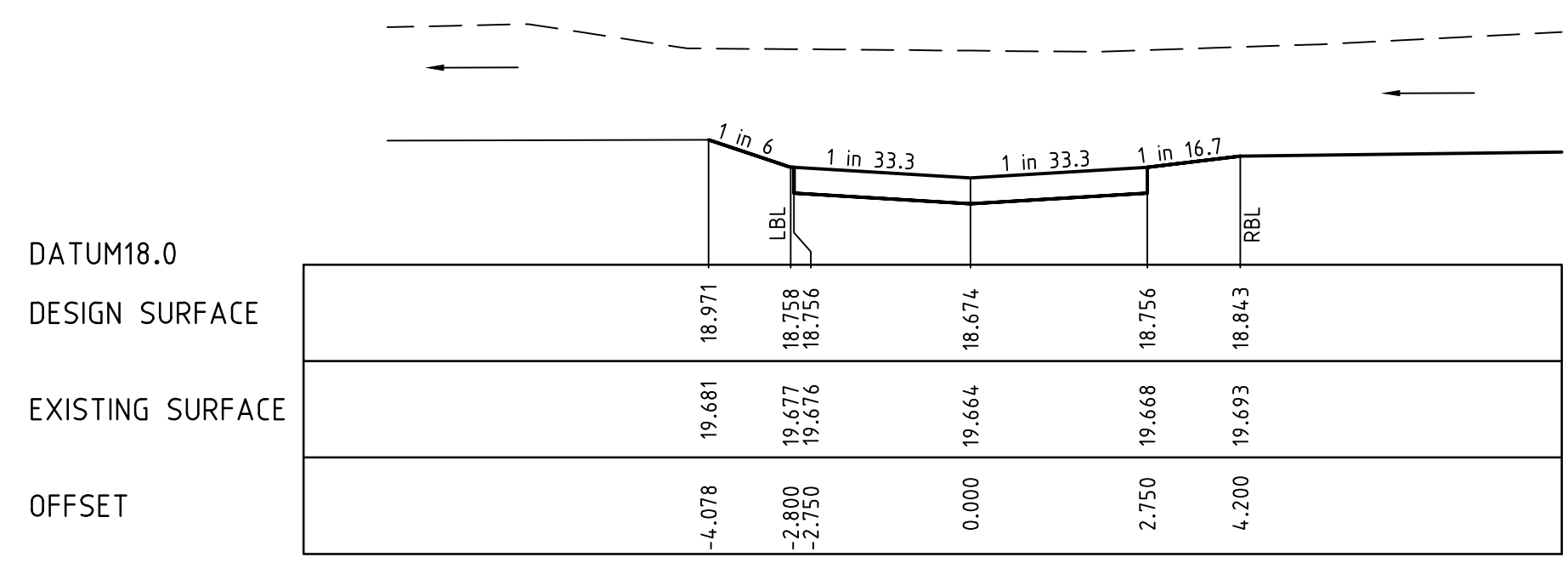
**AS CONSTRUCTED PLANS**  
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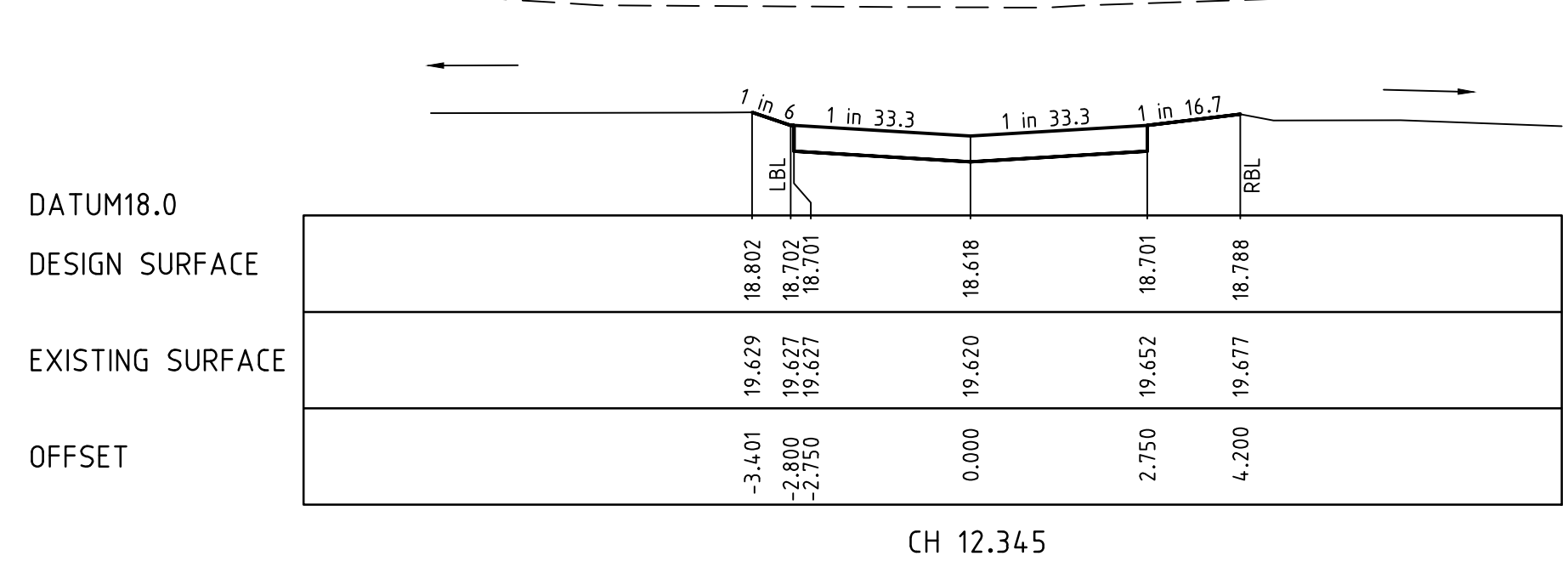
CH 37.011



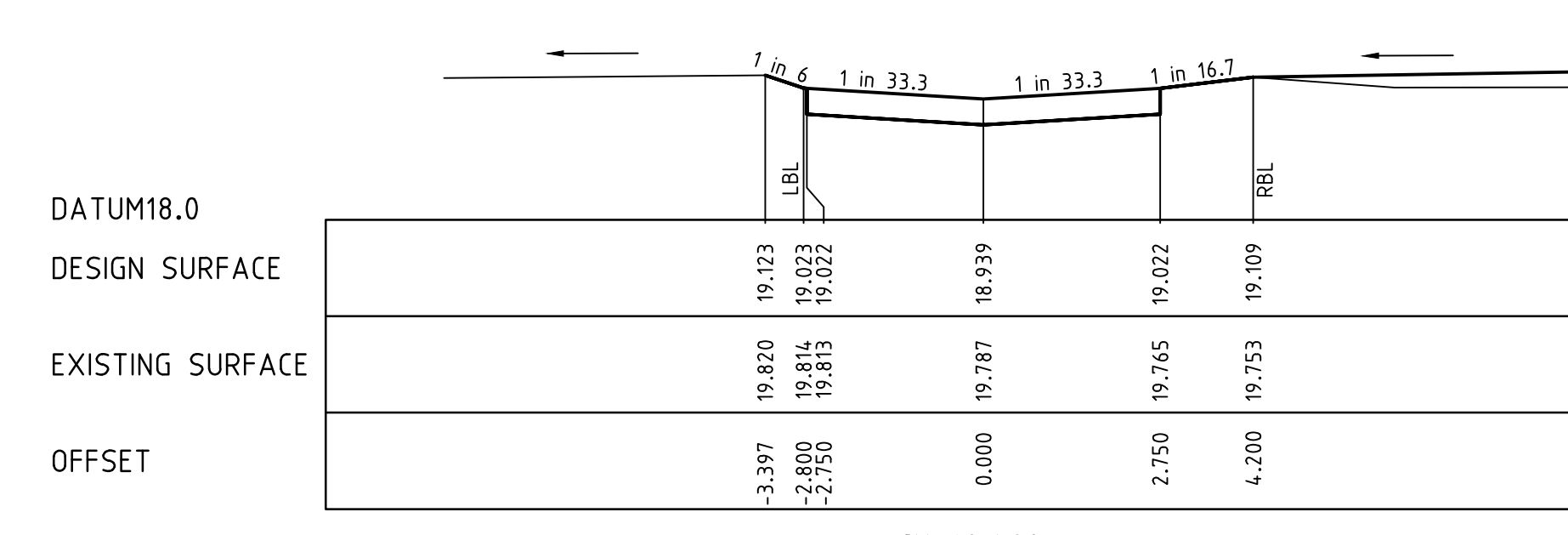
CH 29.511



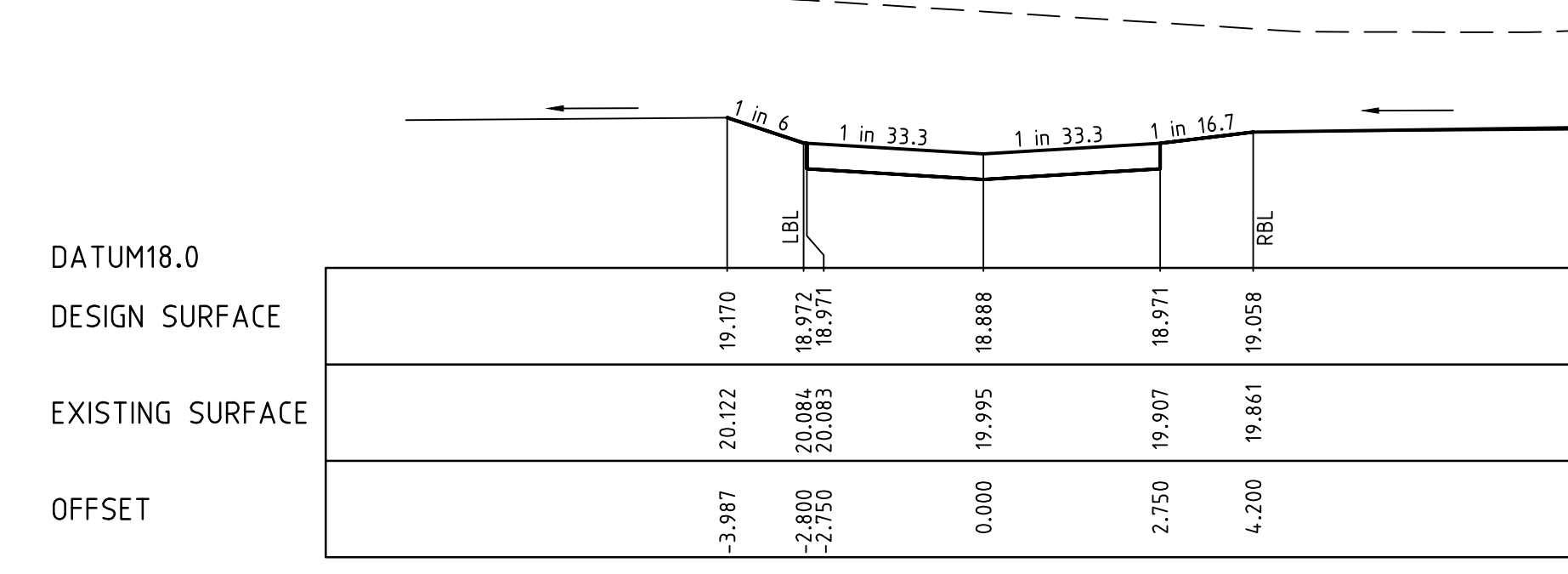
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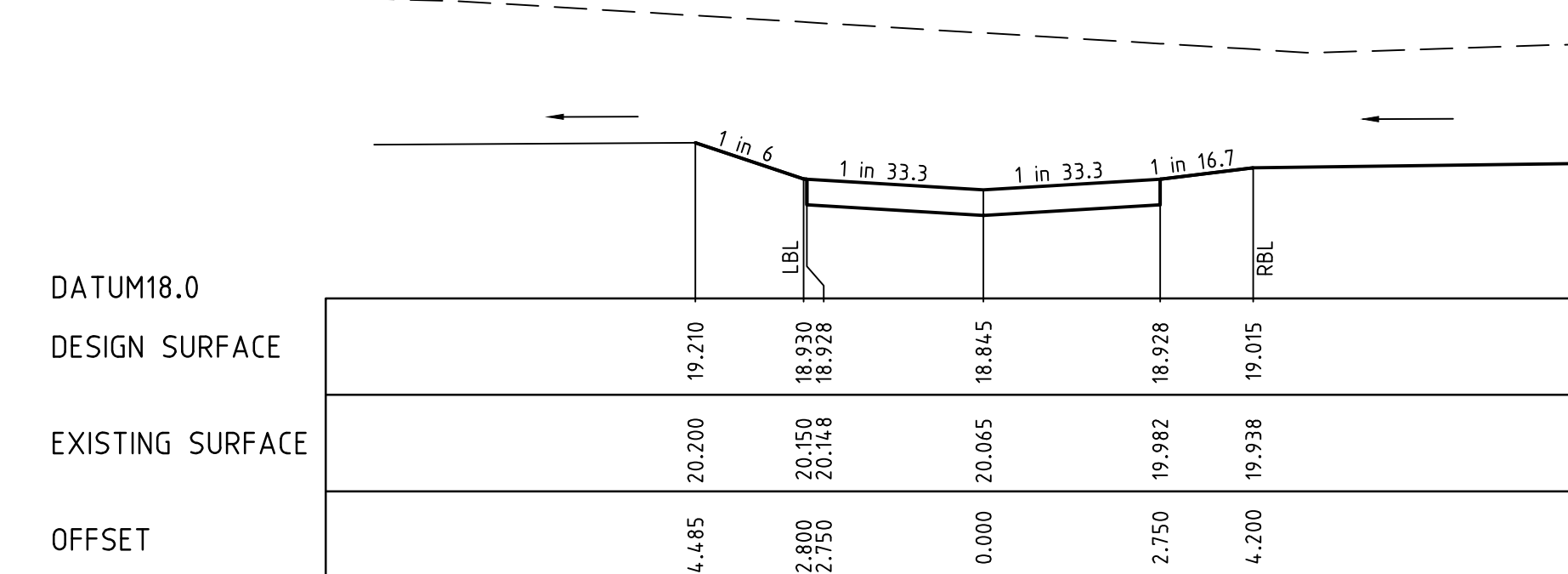
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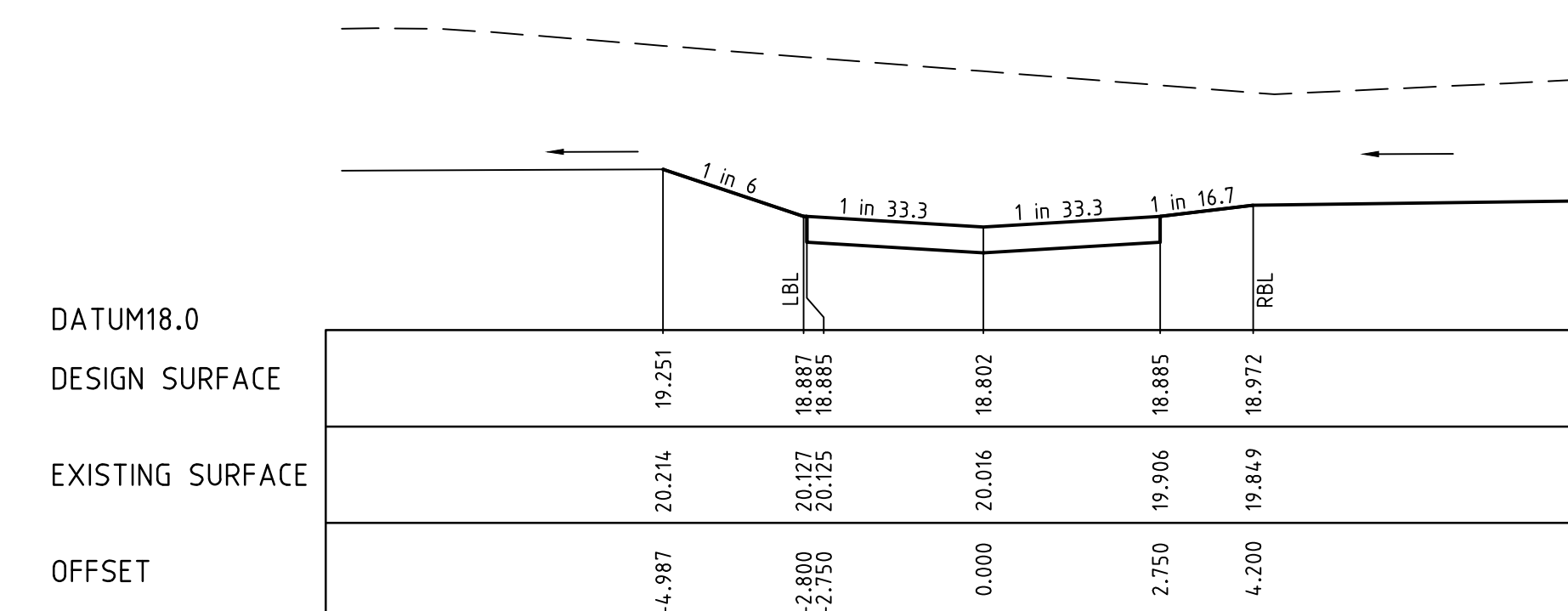
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CH 59.511



CH 52.011



CH 44.511

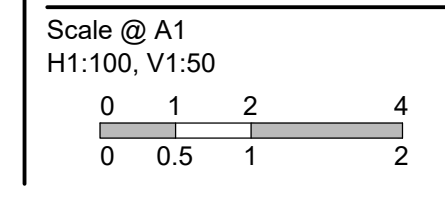
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REVISION	DATE	DES/DFT	APPD
5	17.08.18	HE	LV
4	17.11.17	NG/SS	LV



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Designed  
 B.Cheung  
 Drawn  
 S.Sathasivam  
 Checked  
 L.Vieyra  
 Authorised  
 S.Tsialtas  
 Date  
 May 2016



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**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Cross Sections: Depot Lane

Drawing No. 1932E-16-19  
 Sheet No. 19 of 33

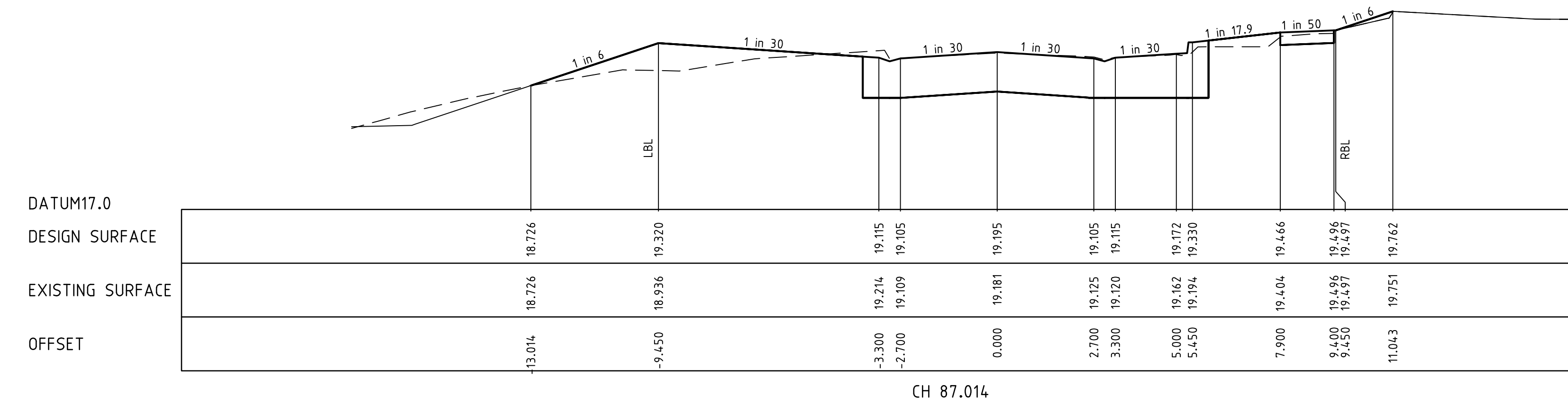
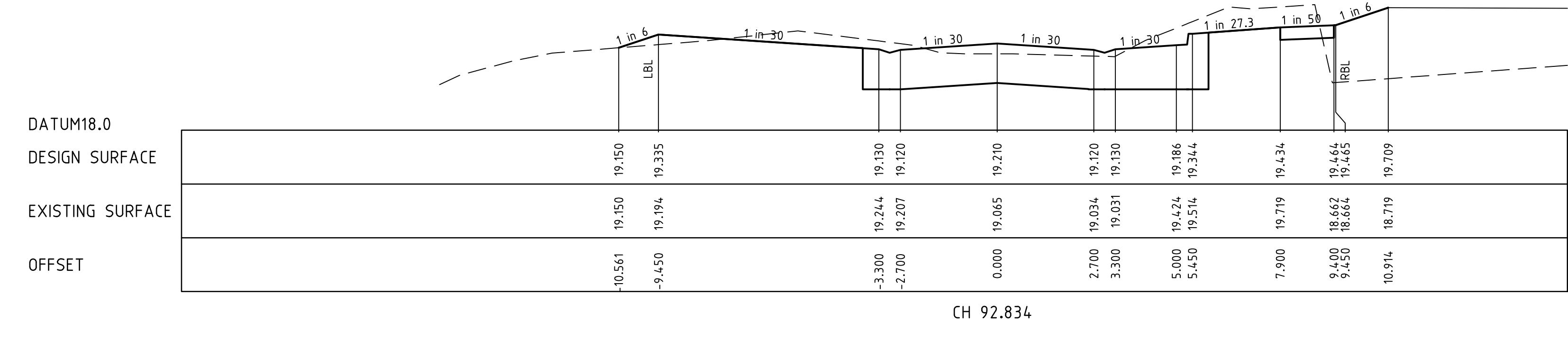
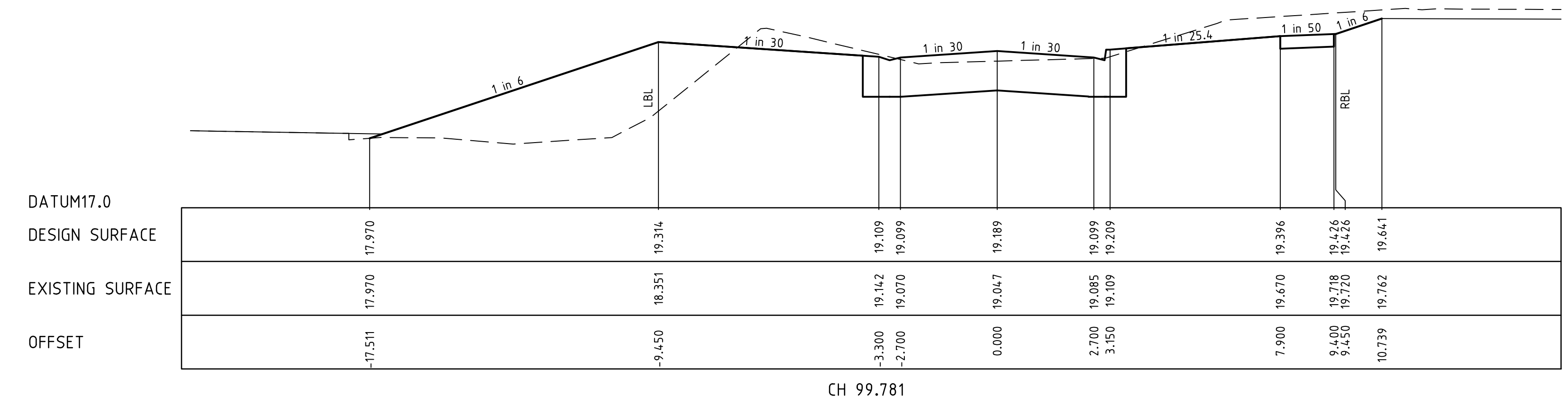
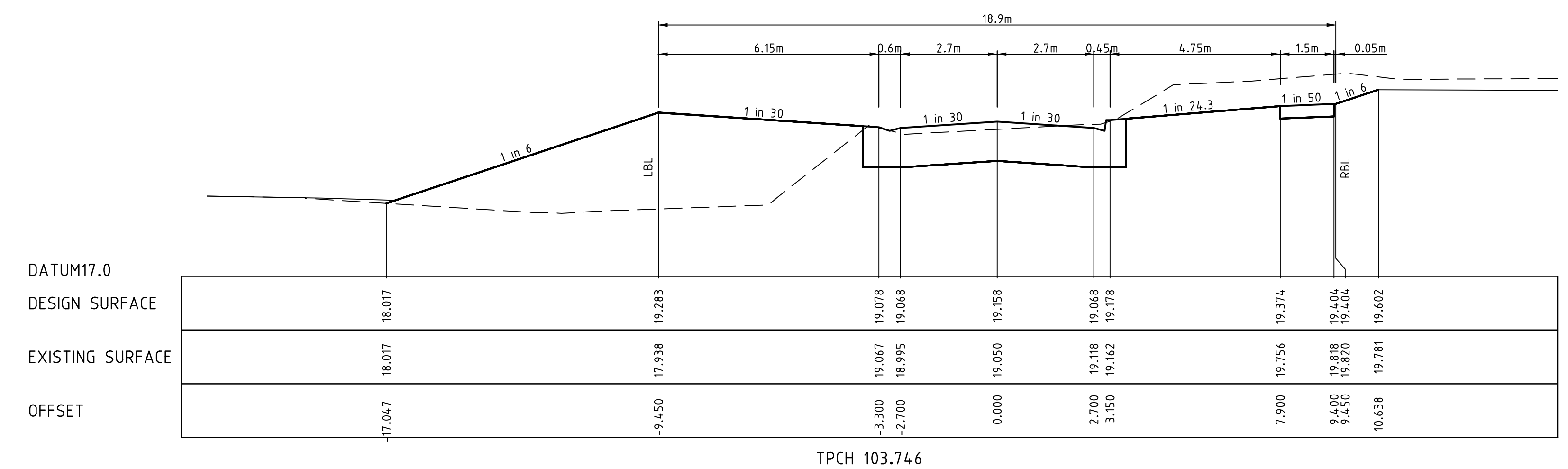
Rev 5

As Constructed



LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	CLASS 3 FCR COMPACTED TO MIN 98% DENSITY RATIO (MODIFIED) AS1289.5.2.1 REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE OR CONSTRUCTED SEWER TRENCH

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5	AS CONSTRUCTED	17.08.18	HE	LV
4	ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV
REVISION		DATE	DES/DFT	APPD

**DEVELOPMENT VICTORIA**  
 Principal  
 Development Victoria  
 710 Collins Street  
 Docklands, VIC - 3008

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Designed  
B.Cheung  
 Drawn  
S.Sathasivam  
 Checked  
L.Vieyra  
 Authorised  
S.Tsialtas  
 Date  
May 2016

Scale @ A1  
 H:1:100, V:1:50

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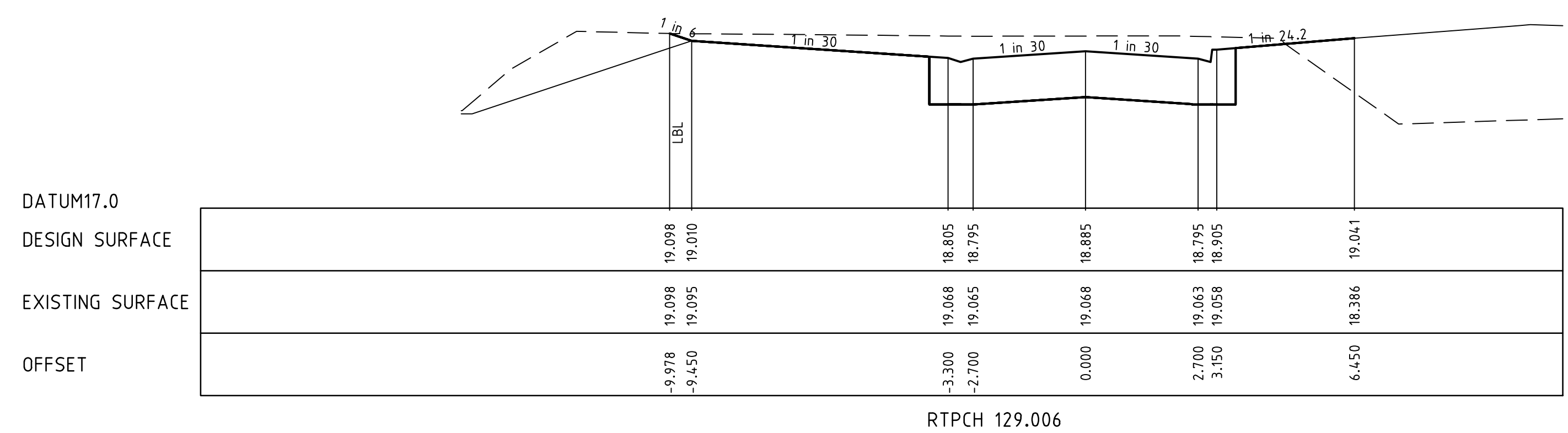
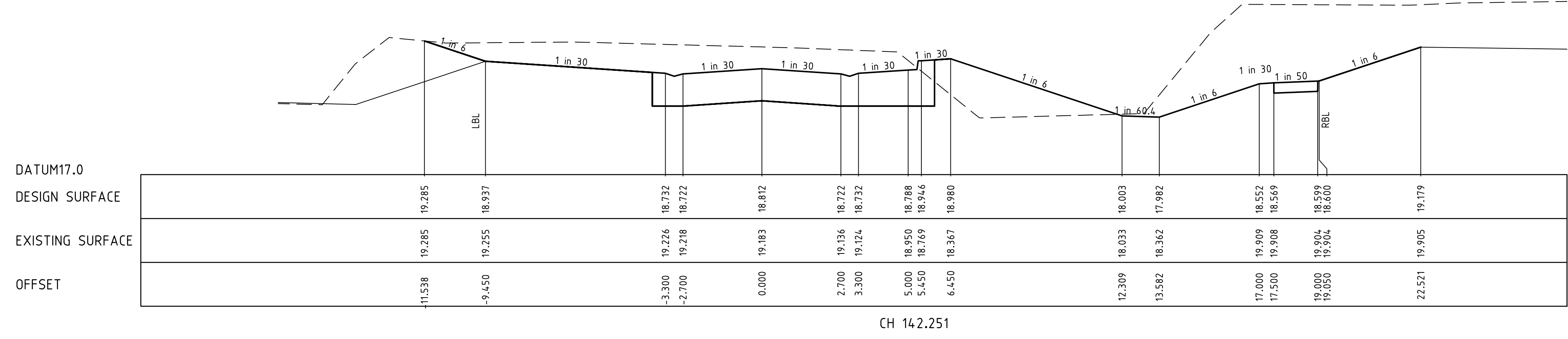
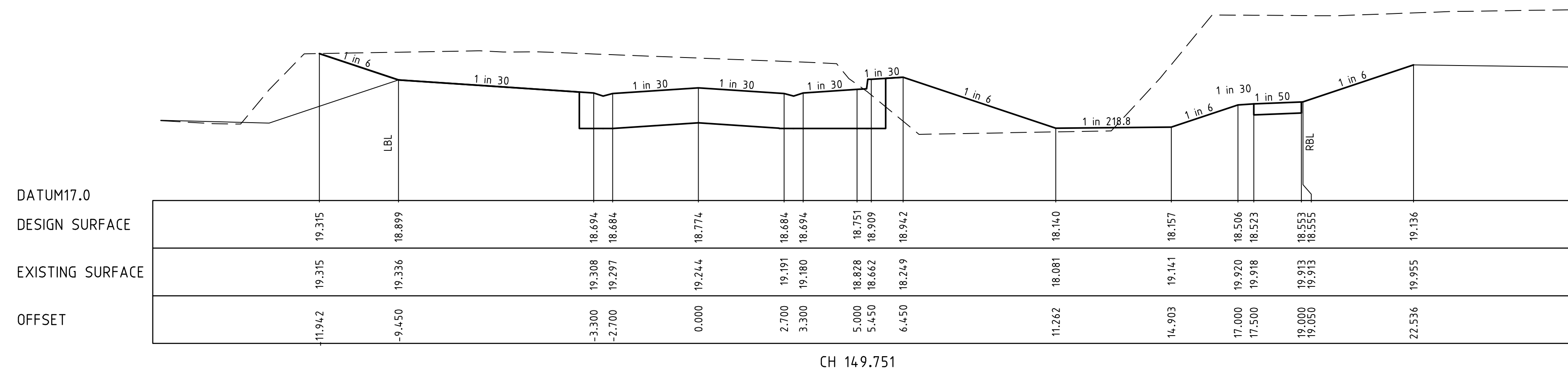
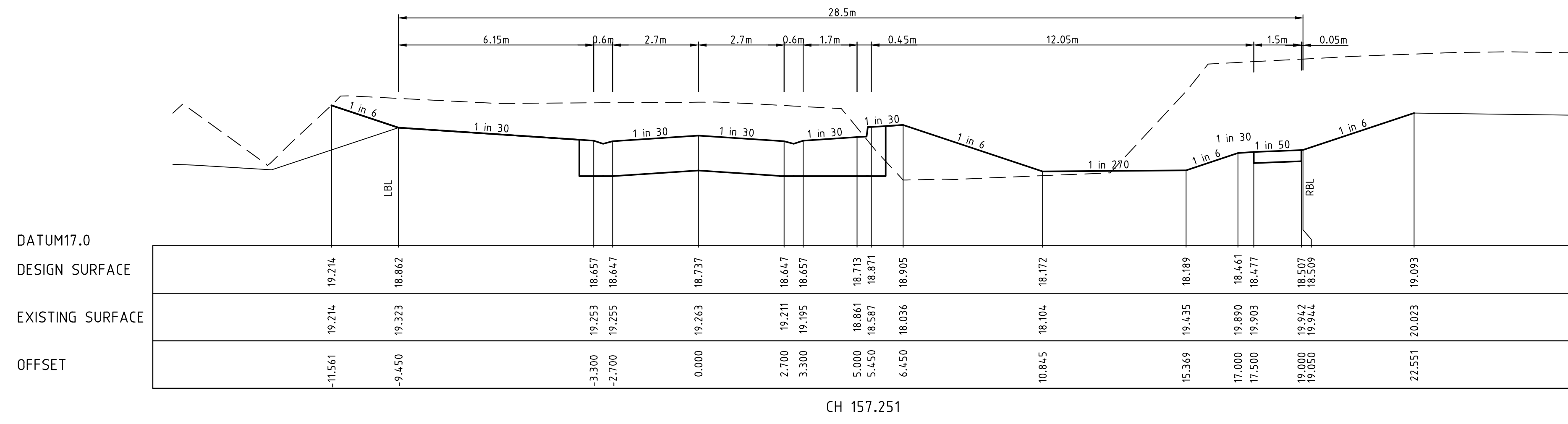
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**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Cross Sections: Dutchelm Avenue  
 Ch 87.014 - Ch 103.746  
**Drawing No. 1932E-16-20**      **Rev 5**  
 Sheet No. 20 of 33  
**As Constructed**



LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	CLASS 3 FCR COMPACTED TO MIN 98% DENSITY RATIO (MODIFIED) AS1289.5.2.1 REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE OR CONSTRUCTED SEWER TRENCH

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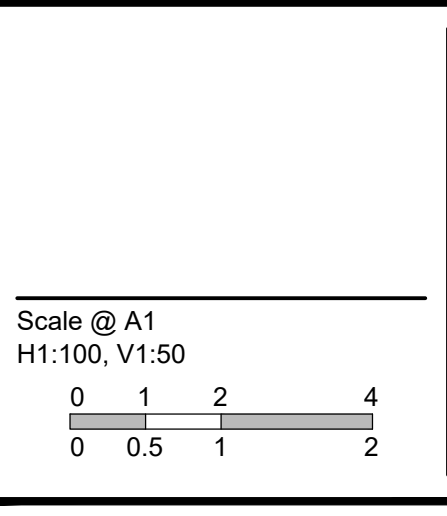
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REVISION	DATE	DES/DFT	APPD
5 AS CONSTRUCTED	17.08.18	HE	LV
4 ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV

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 Docklands, VIC - 3008

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 Authorised  
 S.Tsialtas  
 Date  
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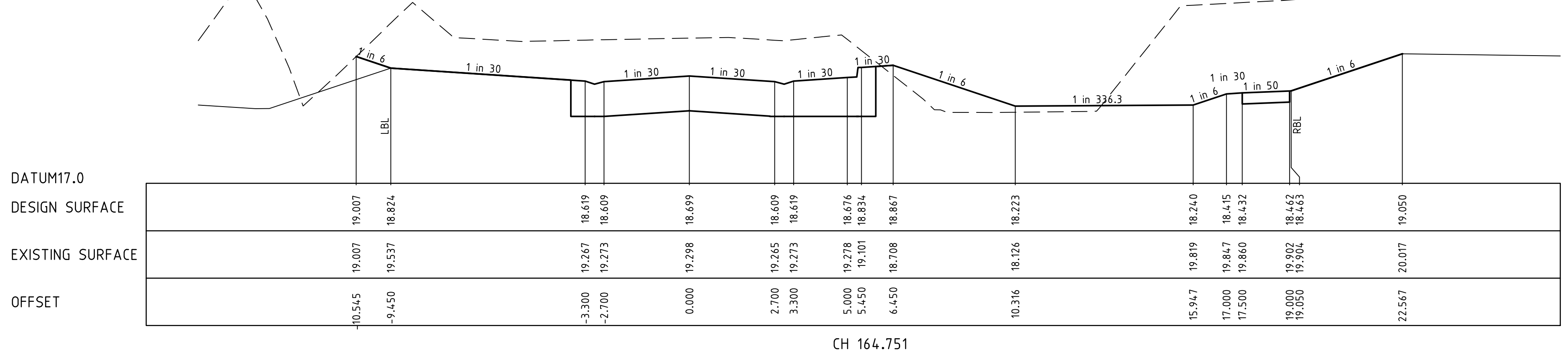
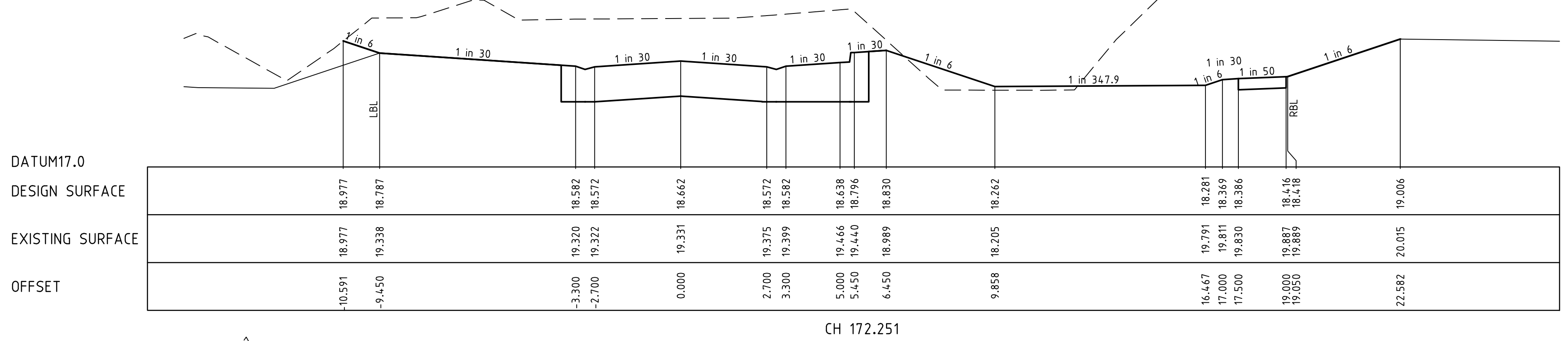
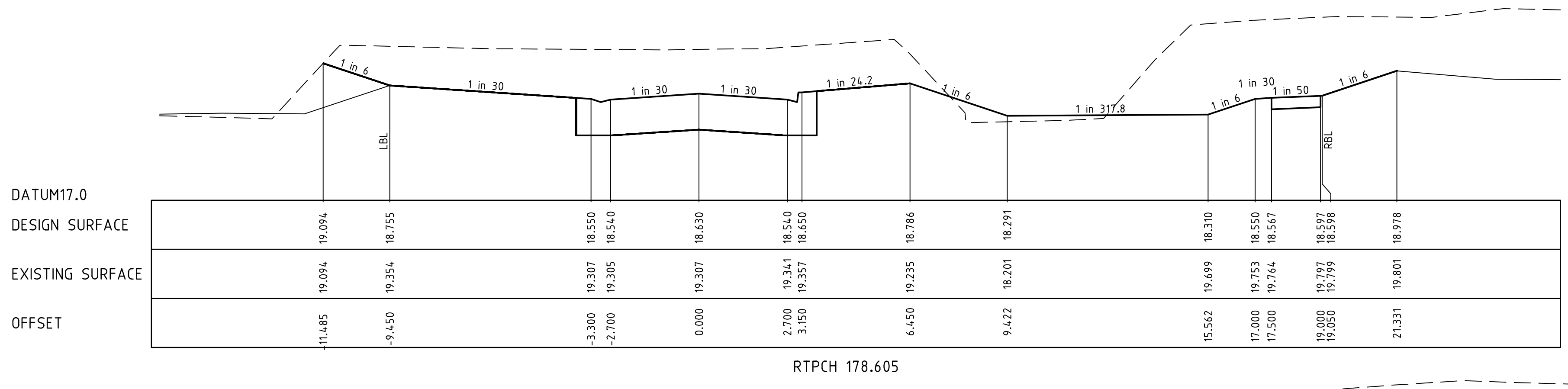
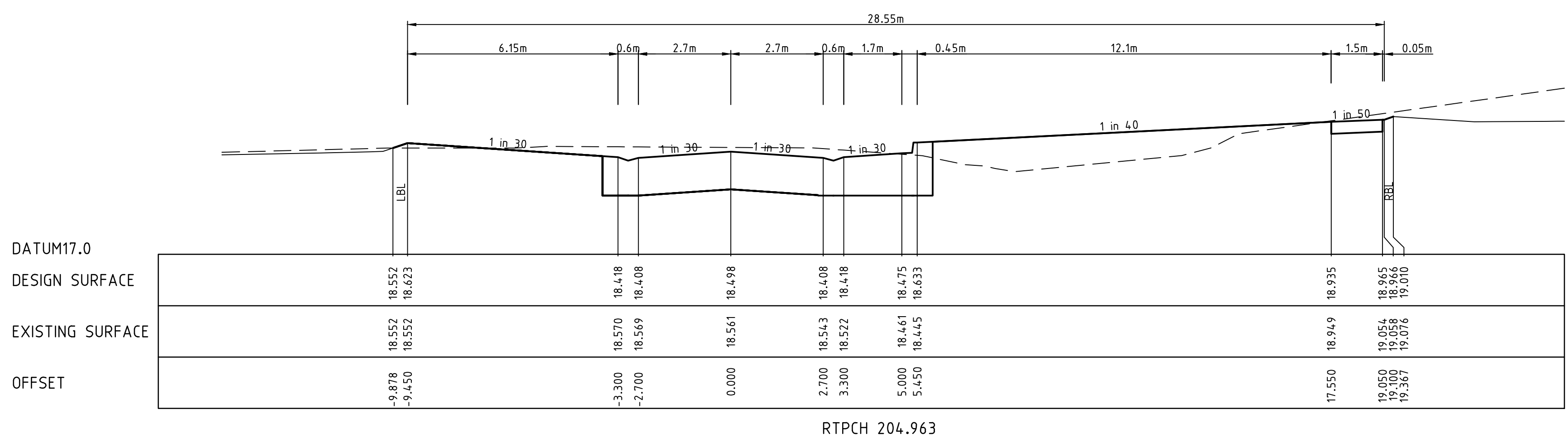
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**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Cross Sections: Dutchem Avenue  
 Ch 129.006 - Ch 157.251  
**Drawing No. 1932E-16-21**      **Rev 5**  
 Sheet No. 21 of 33  
**As Constructed**



LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	CLASS 3 FCR COMPACTED TO MIN 98% DENSITY RATIO (MODIFIED) AS1289.5.2.1 REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE OR CONSTRUCTED SEWER TRENCH

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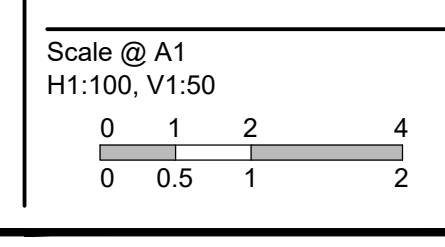
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REVISION	DATE	DES/DFT	APPD
5	17.08.18	HE	LV
4	17.11.17	NG/SS	LV

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 L.Vieyra  
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 S.Tsialtas  
 Date  
 May 2016



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 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Cross Sections: Dutchelm Avenue  
 Ch 164.751 - Ch 204.963  
**Drawing No. 1932E-16-22**  
 Sheet No. 22 of 33

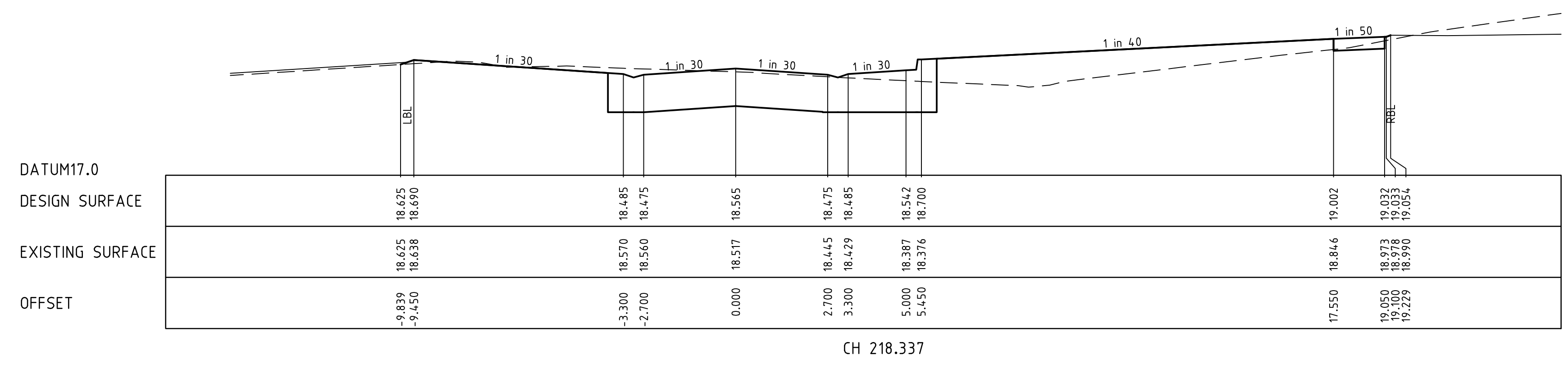
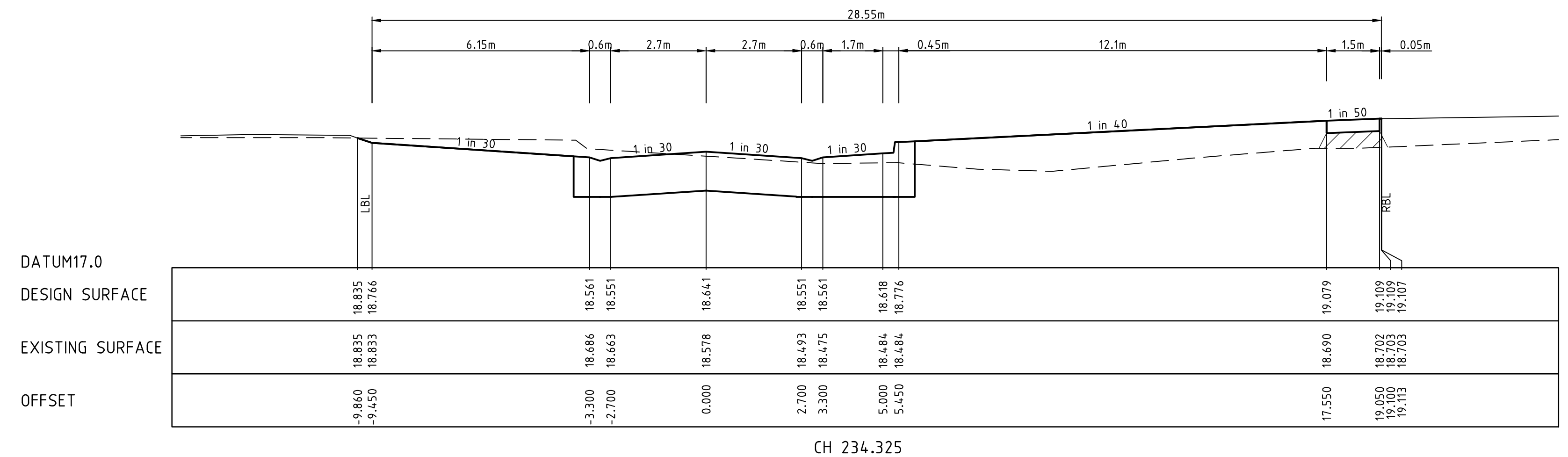
**Rev 5**

**As Constructed**



LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	CLASS 3 FCR COMPACTED TO MIN 98% DENSITY RATIO (MODIFIED) AS1289.5.2.1 REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE OR CONSTRUCTED SEWER TRENCH

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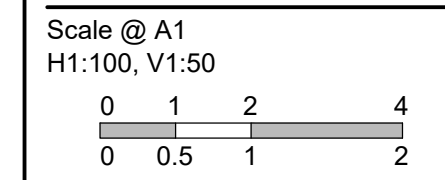
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REVISION	DATE	DES/DFT	APPD
5	17.08.18	HE	LV
4	17.11.17	NG/SS	LV

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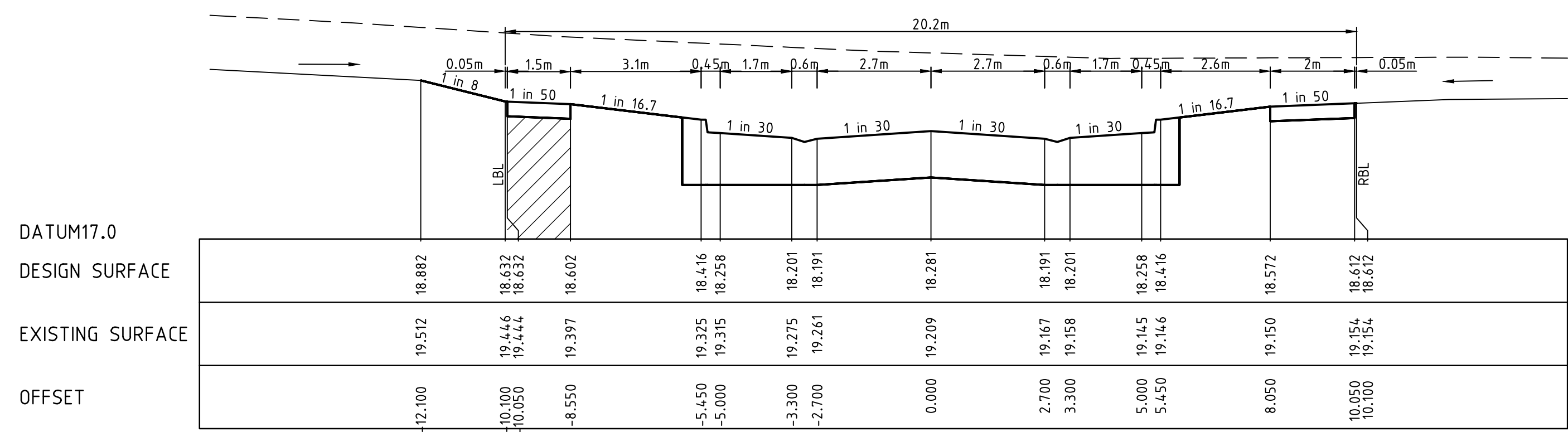
**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Cross Sections: Dutchelm Avenue  
 Ch 218.337 - Ch234.325  
**Drawing No. 1932E-16-23** **Rev 5**  
 Sheet No. 23 of 33

As Constructed

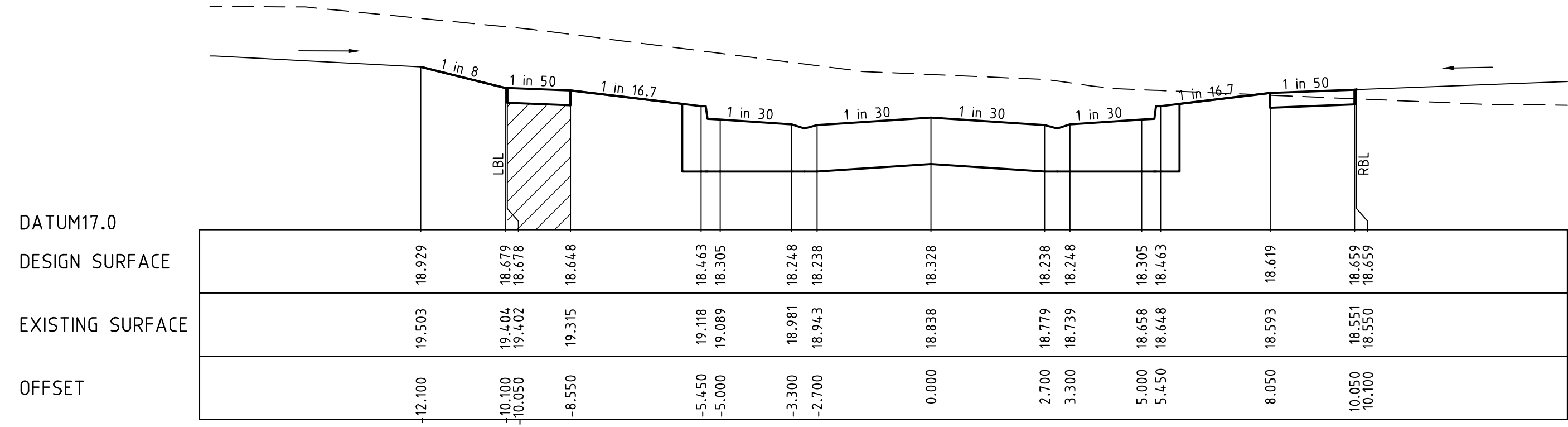


LEGEND	
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	DESIGN LINE
	FUTURE DESIGN LINE
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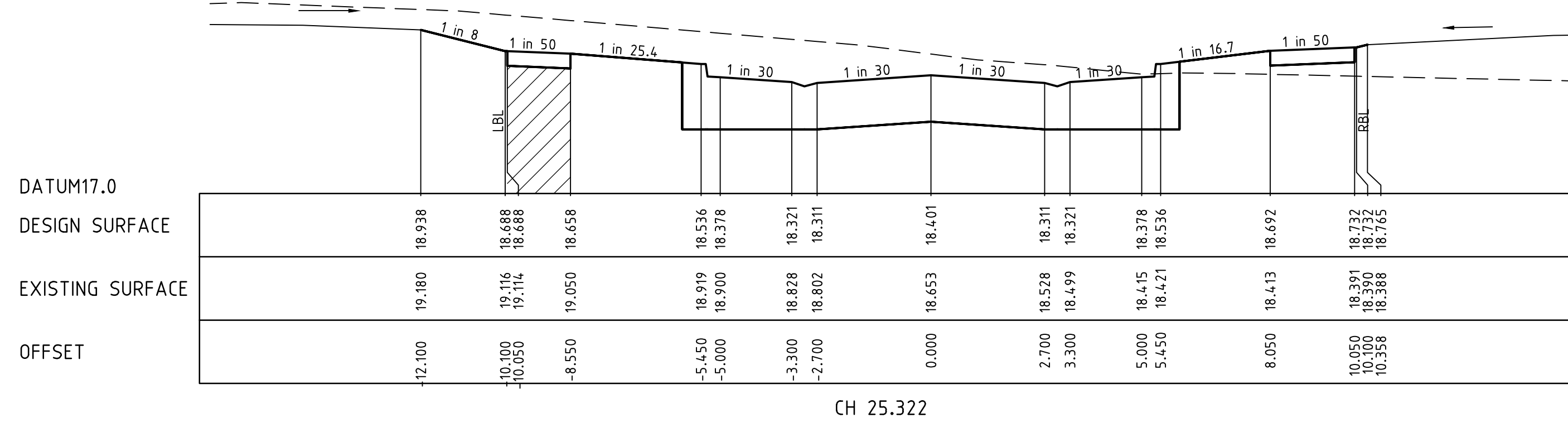
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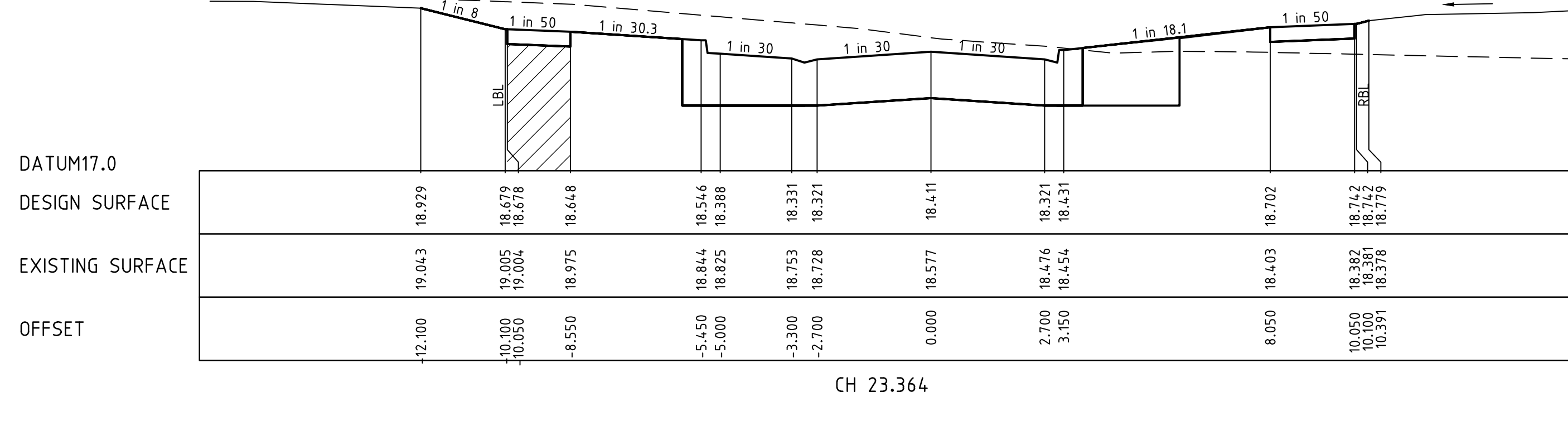
CH 49.322



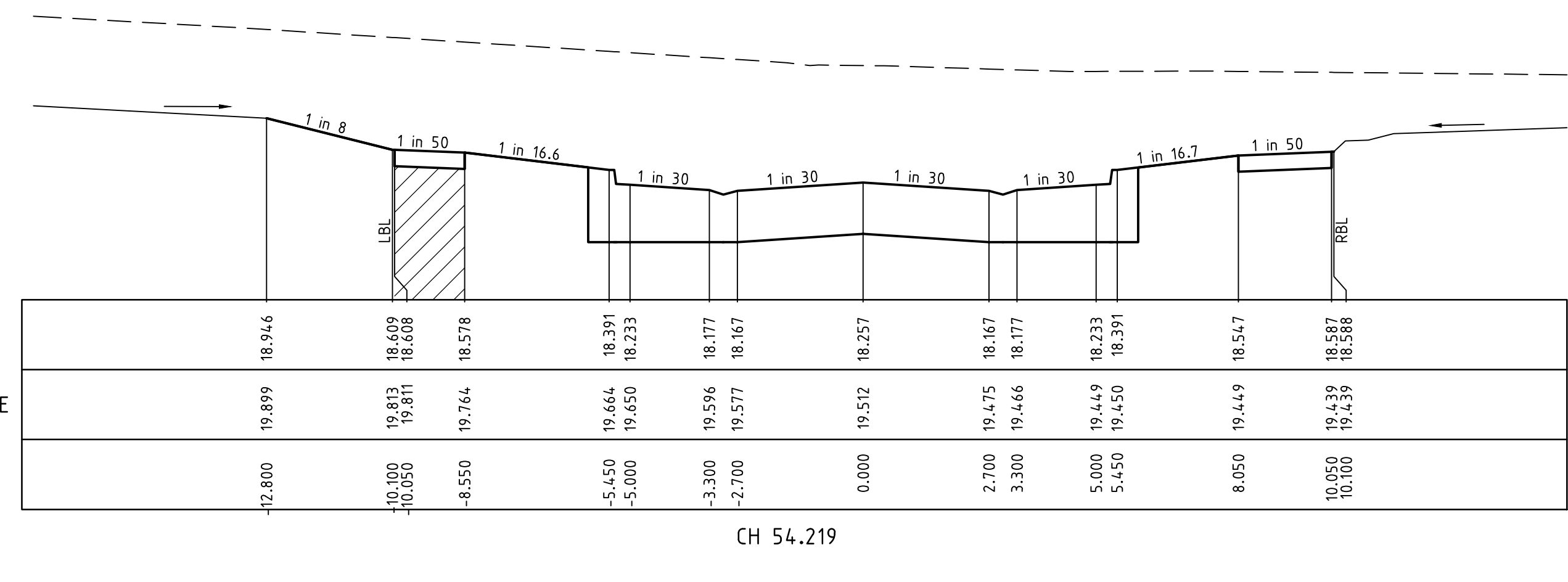
CH 40.000



CH 25.322



CH 23.364



CH 54.219

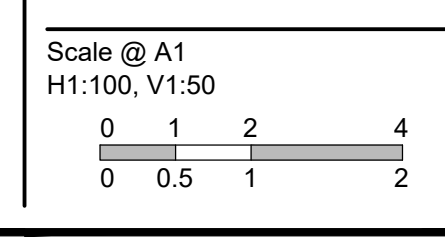
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REVISION	DATE	DES/DFT	APPD
5 AS CONSTRUCTED	17.08.18	HE	LV
4 ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV

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 Docklands, VIC - 3008

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 Date  
 May 2016



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**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Cross Sections: Murrindal Street

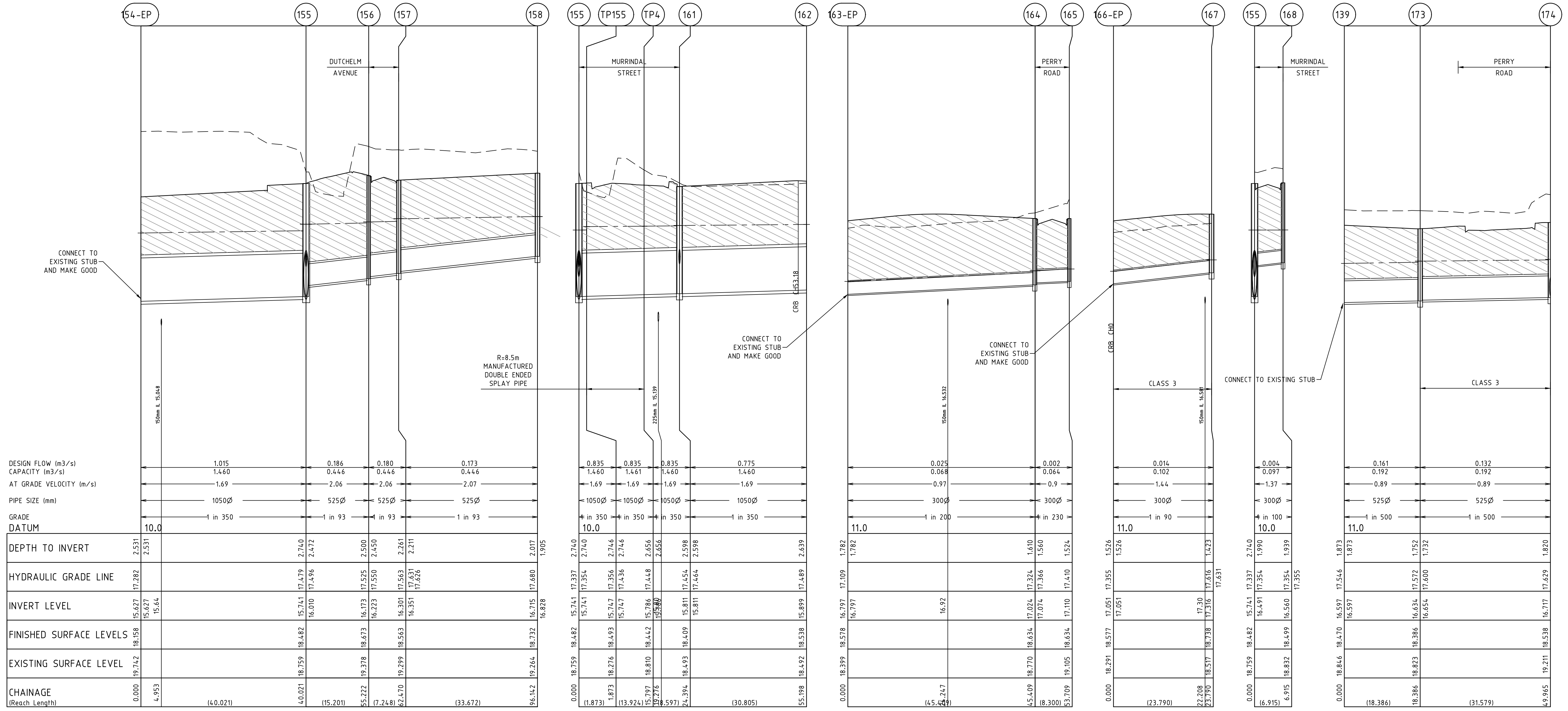
Drawing No. 1932E-16-24 Rev 5  
 Sheet No. 24 of 33  
 As Constructed



**CRUSHED ROCK BACKFILL**  
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB

LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CRUSHED ROCK BACKFILL

**AS CONSTRUCTED PLANS**  
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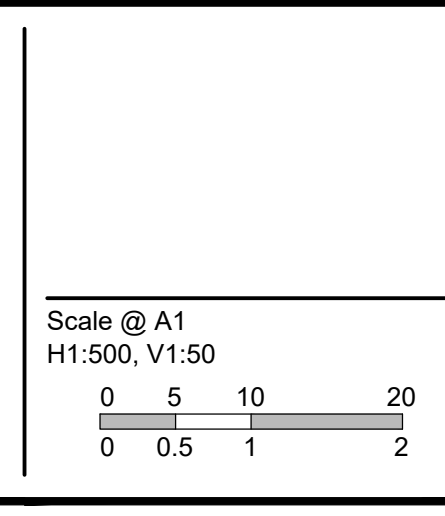
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REVISION	DATE	DES/DFT	APPD
5 AS CONSTRUCTED	17.08.18	HE	LV
4 CONNECTIONS TO DISCOVERY CENTRE UPDATED	01.02.18	NG	LV
3 ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV

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 Development Victoria  
 710 Collins Street  
 Docklands, VIC - 3008

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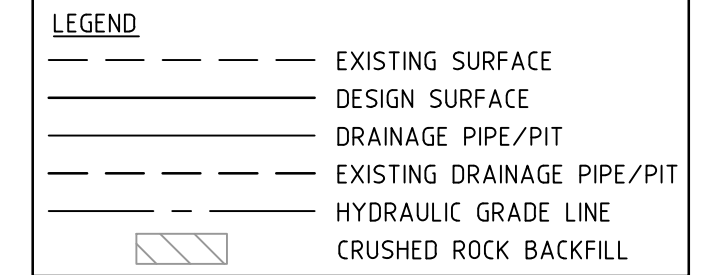
**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Drainage Longitudinal Sections - 1

Drawing No. 1932E-16-25  
 Sheet No. 25 of 33

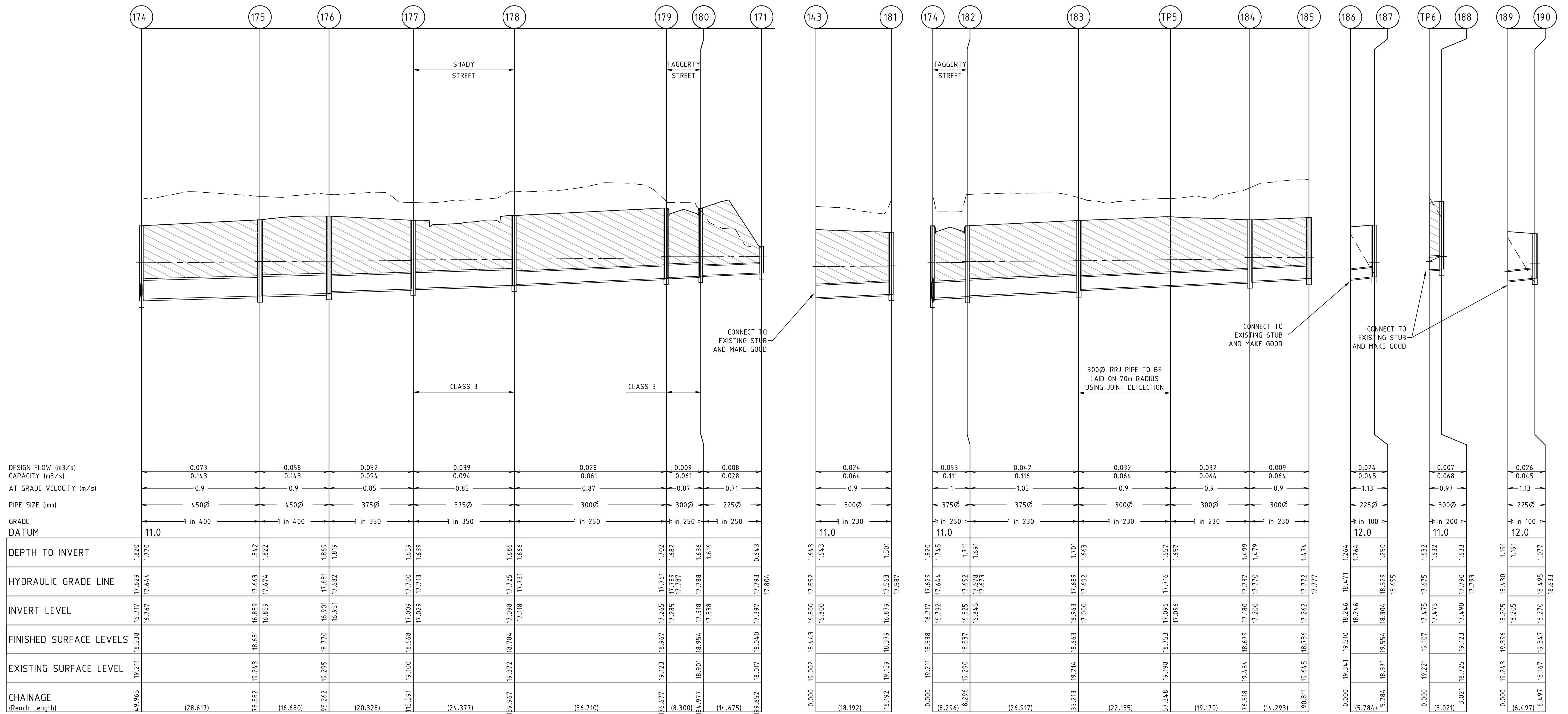
Rev 5  
 As Constructed



**CRUSHED ROCK BACKFILL**  
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



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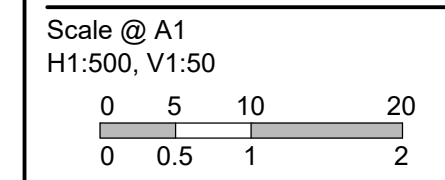
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REVISION	DATE	DES/DFT	APPD
5 AS CONSTRUCTED	17.08.18	HE	LV
4 PIT 171 AMENDED	23.01.18	NG	LV
3 ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV



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Designed  
B.Cheung  
 Drawn  
S.Sathasivam  
 Checked  
L.Vieyra  
 Authorised  
S.Tsialtas  
 Date  
May 2016



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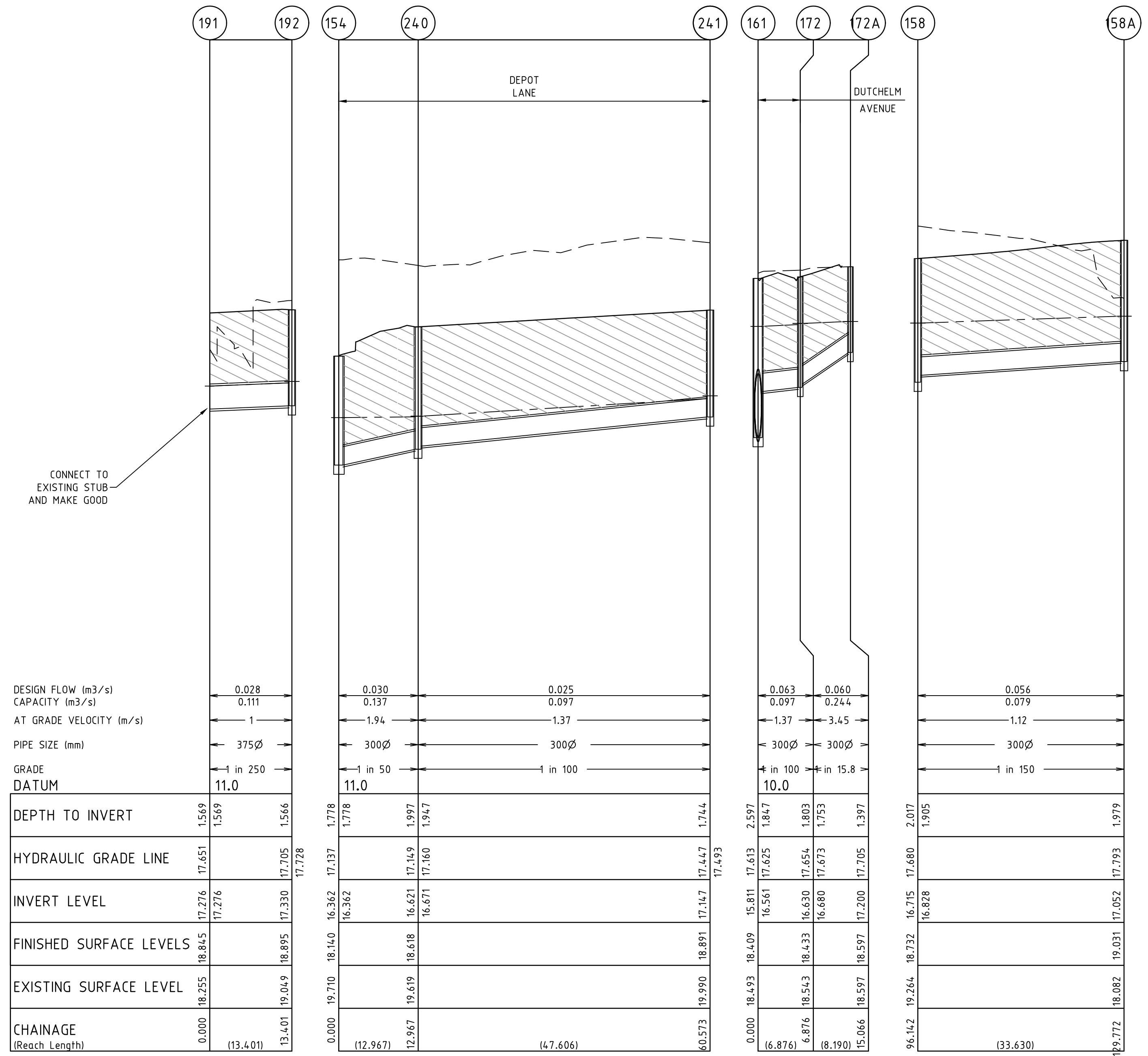
**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Drainage Longitudinal Sections - 2

Drawing No. 1932E-16-26 Rev 5  
 Sheet No. 26 of 33

As Constructed



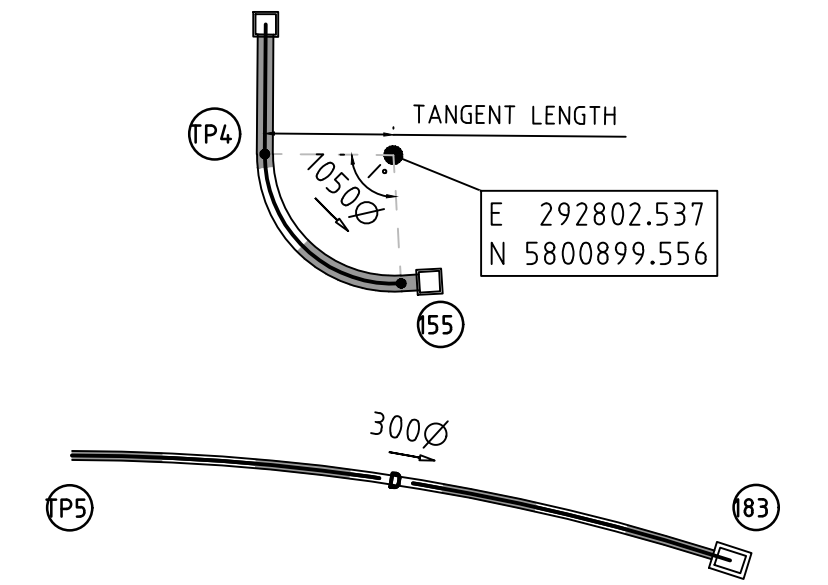
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CRUSHED ROCK BACKFILL



PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)				
239	SINGLE SIDE ENTRY PIT GRATED	600	900					19.129	1.081	GAA EDCM 601	CONNECT TO EXISTING STUB
154-EP	ENDPIPE			1050	15.627	1050	15.627	18.158	2.531		CONNECT TO EXISTING STUB
155	DOUBLE SIDE ENTRY PIT GRATED	1350	1350	525	16.010	1050	15.741	18.482	2.74	GAA EDCM 602 & 607 MW 7251/08/408 MW 7251/08/409	PIT TO BE DOUBLE HAUNCHED TO 600x900 COVER AS PER MELBOURNE WATER STANDARDS 7251/08/408 & 7251/08/409
156	SINGLE SIDE ENTRY PIT GRATED	600	1050	525	16.223	525	16.173	18.673	2.500	GAA EDCM 601 & 607	PIT TO BE HAUNCHED TO ALLOW FOR 600 x 900 COVER
157	SINGLE SIDE ENTRY PIT GRATED	900	900	525	16.351	525	16.301	18.563	2.261	GAA EDCM 601 & 607	PIT TO BE HAUNCHED TO ALLOW FOR 600 x 900 COVER
158	SINGLE SIDE ENTRY PIT GRATED	900	900	300	16.828	525	16.715	18.732	2.017	GAA EDCM 603 & 607	PIT TO BE HAUNCHED TO ALLOW FOR HEAVY DUTY TRAFFICABLE GRATED 600 x 900 COVER
158A	JUNCTION PIT	600	900	Ex 300Ø		300	17.052	19.031	1.979	GAA EDCM 605	CONNECT TO EXISTING 300Ø DRAIN
TP155	TANGENT POINT			1050	15.747	1050	15.747	18.493	2.746		
TP4	TANGENT POINT			1050	15.786	1050	15.786	18.442	2.656		
161	DOUBLE SIDE ENTRY PIT GRATED	1350	900	1050	15.811	1050	15.811	18.409	2.598	GAA EDCM 602 & 607	PIT TO BE HAUNCHED TO ALLOW FOR 600 x 900 COVER WITH RL1218 REINFORCEMENT
162	ENDPIPE					1050	15.899	18.538	2.639		CONNECT TO EXISTING STUB
163-EP	ENDPIPE			300	16.797	300	16.797	18.578	1.782		CONNECT TO EXISTING STUB
164	SINGLE SIDE ENTRY PIT GRATED	600	900	300	17.074	300	17.024	18.634	1.61	GAA EDCM 601	
165	SINGLE SIDE ENTRY PIT GRATED	600	900			300	17.111	18.634	1.524	GAA EDCM 601	
166-EP	ENDPIPE			300	17.051	300	17.051	18.577	1.526		CONNECT TO EXISTING STUB
167	SINGLE SIDE ENTRY PIT GRATED	600	900			300	17.316	18.738	1.423	GAA EDCM 603	
168	SINGLE SIDE ENTRY PIT GRATED	600	900			300	16.56	18.499	1.939	GAA EDCM 602	
172	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	16.68	300	16.63	18.433	1.803	GAA EDCM 602 & 607	
172A	JUNCTION PIT	600	900	Ex 300Ø		300	17.200	18.597	1.397	GAA EDCM 605	BREAK & CONNECT TO EXISTING 300Ø DRAIN
139	ENDPIPE			525	16.597	525	16.597	18.47	1.873		CONNECT TO EXISTING STUB
173	DOUBLE SIDE ENTRY PIT GRATED	900	900	525	16.654	525	16.634	18.386	1.752	GAA EDCM 602	
174	DOUBLE SIDE ENTRY PIT GRATED	750	900	450	16.767	525	16.717	18.538	1.82	GAA EDCM 602	
175	JUNCTION PIT	750	900	450	16.859	450	16.839	18.681	1.842	GAA EDCM 605	
176	JUNCTION PIT	750	900	375	16.951	450	16.901	18.77	1.869	GAA EDCM 605	
177	DOUBLE SIDE ENTRY PIT GRATED	750	900	375	17.029	375	17.009	18.668	1.659	GAA EDCM 602	
178	SINGLE SIDE ENTRY PIT GRATED	600	900	300	17.118	375	17.098	18.784	1.686	GAA EDCM 601	
179	SINGLE SIDE ENTRY PIT GRATED	600	900	300	17.285	300	17.265	18.967	1.702	GAA EDCM 601	
180	SINGLE SIDE ENTRY PIT GRATED	600	900	225	17.338	300	17.318	18.954	1.636	GAA EDCM 601	
171	GRATED PIT	600	900			225	17.397	18.040	0.643		
143	ENDPIPE			300	16.8	300	16.8	18.443	1.643		CONNECT TO EXISTING STUB
181	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	16.879	300	16.879	18.379	1.501	GAA EDCM 602	
182	DOUBLE SIDE ENTRY PIT GRATED	600	900	375	16.848	375	16.825	18.537	1.711	GAA EDCM 602	
183	JUNCTION PIT	600	900	300	17.003	375	16.963	18.663	1.701	GAA EDCM605	
TP5	TANGENT POINT			300	17.099	300	17.096	18.753	1.657		
184	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	17.203	300	17.18	18.679	1.499	GAA EDCM 602	
185	SINGLE SIDE ENTRY PIT GRATED	600	900			300	17.262	18.736	1.474		HEAVY DUTY TRAFFICABLE GRATED 600 x 900 COVER
186	ENDPIPE			225	18.246			19.51	0		CONNECT TO EXISTING STUB
187	JUNCTION PIT	600	900			225	18.304	19.554	1.25	GAA EDCM 605	
TP6	TANGENT POINT			300	17.475			19.107	0		
188	JUNCTION PIT	600	900			300	17.49	19.123	1.633	GAA EDCM 605	
189	ENDPIPE			225	18.205			19.396	0		CONNECT TO EXISTING STUB
190	JUNCTION PIT	600	900			225	18.27	19.347	1.077	GAA EDCM605	
191	ENDPIPE			375	17.276			18.845	0		CONNECT TO EXISTING STUB
192	JUNCTION PIT	600	900			375	17.33	18.895	1.566	GAA EDCM605	
Ex154	DOUBLE SIDE ENTRY PIT GRATED	1350	900	300	16.362	1050	15.612	18.14	2.528		CONNECT TO 300Ø STUB
240	GRATED PIT	600	900			300	16.621	18.618	1.997		HEAVY DUTY TRAFFICABLE GRATED 600 x 900 COVER
241	GRATED PIT	600	900			300	17.147	18.891	1.744		HEAVY DUTY TRAFFICABLE GRATED 600 x 900 COVER

NOTE: CCTV WILL NEED TO REFERENCE COUNCIL PIT NO'S  
 XY SETOUT TO PIT CENTRE  
 SETOUT LEVEL TO PIT COVER LEVEL  
 REFER TO SHEET 31 AND 32 FOR MELBOURNE WATER PIT DETAILS

**AS CONSTRUCTED PLANS**  
 THE PURPOSE OF THESE AS-CONSTRUCTED PLANS IS TO UPDATE THE DESIGN DRAWINGS TO SHOW SIGNIFICANT CHANGES WHICH OCCURRED DURING CONSTRUCTION. NOTE THAT THE LEVELS SHOWN ON THESE PLANS ARE DESIGN LEVELS, AND HAVE NOT BEEN VERIFIED BY SURVEY. ALL INFORMATION SHOWN ON THESE PLANS SHOULD BE VERIFIED ON SITE.  
 SMEC ACCEPTS NO RESPONSIBILITY FOR LOSS OR DAMAGES RESULTING FROM THE INAPPROPRIATE USAGE OF THESE PLANS.



SERVICE LOCATIONS ARE IN ACCORDANCE WITH APPENDIX H OF THE MPA GUIDELINES AND THE DETAIL PLAN. **SHOULD NOT BE RELIED UPON FOR THE ACCURATE POSITIONING OF DRAINAGE LINES GREATER THAN 450mm BEHIND BACK OF KERB.** PIPES GREATER THAN 450mm WILL BE HAUNCHED UNDERNEATH KERB AND CHANNEL WHERE APPLICABLE TO ENSURE THAT PIT WIDTH BEHIND BACK OF KERB DOES NOT EXCEED 0.9m.

CURVED PIPE INFORMATION					
LOCATION	PIPE TYPE	CENTRE RADIUS (m)	ARC LENGTH (m)	TANGENT LENGTH (m)	I'
155 - TP4	SPLAY (FJ)	8.50	13.926	8.50	93.87
183 - TPS	JOINT DEFLECTION (RRJ)	70.00	21.535	70.00	17.63

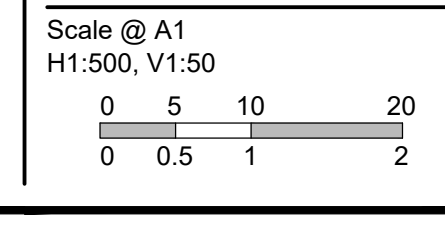
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REVISION	DATE	DES/DFT	APPD
6 AS CONSTRUCTED	17.08.18	HE	LV
5 CONNECTIONS TO DISCOVERY CENTRE UPDATED	01.02.18	NG	LV
4 PIT 171 AMENDED	23.01.18	NG	LV
3 ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV

**DEVELOPMENT VICTORIA**  
 Principal  
 Development Victoria  
 710 Collins Street  
 Docklands, VIC - 3008

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 Date  
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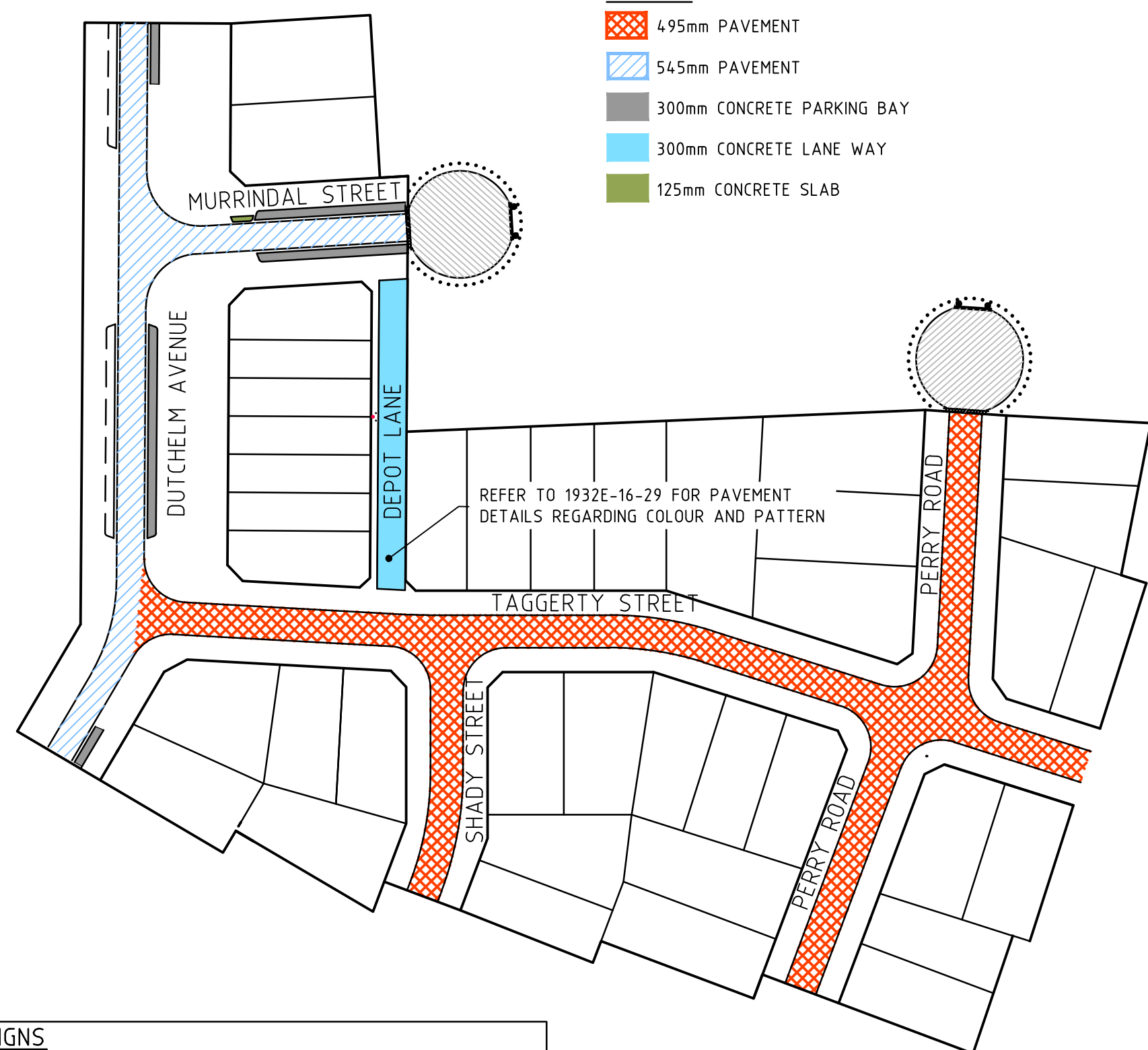
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**River Walk**  
 Stage 16  
 Wyndham City Council  
 Roadworks and Drainage  
 Drainage Longitudinal Sections - 3 & Pit Schedule  
 Drawing No. 1932E-16-27  
 Sheet No. 27 of 33  
 Rev 6  
 As Constructed

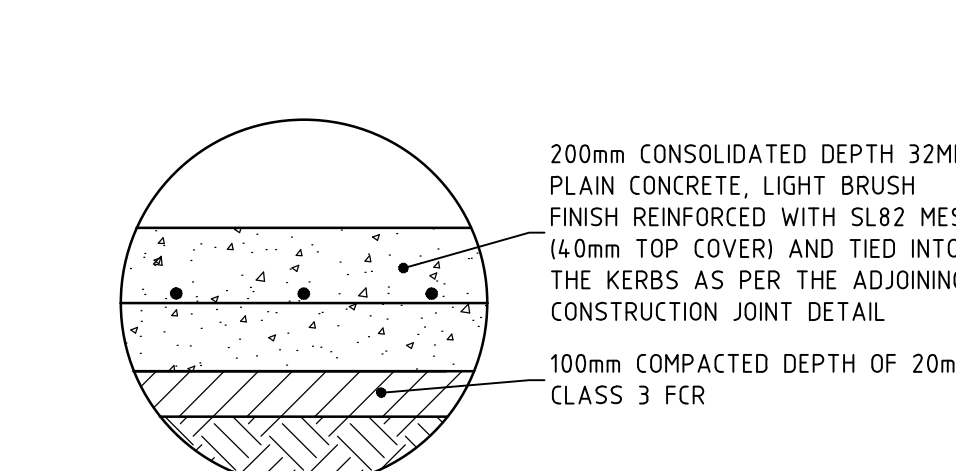
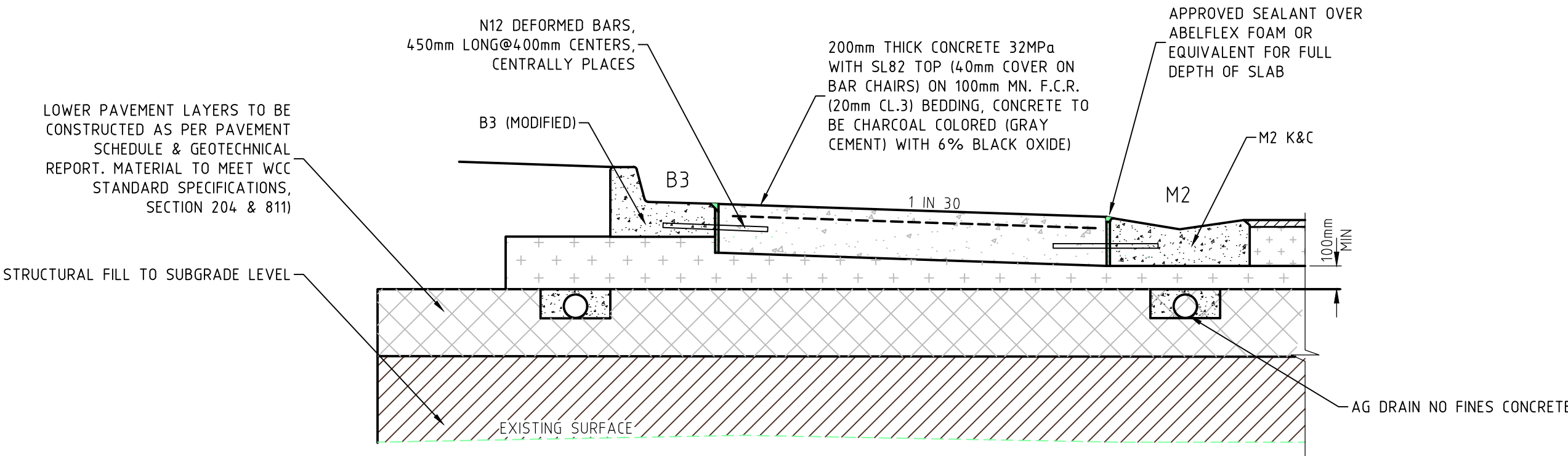


**LEGEND:**

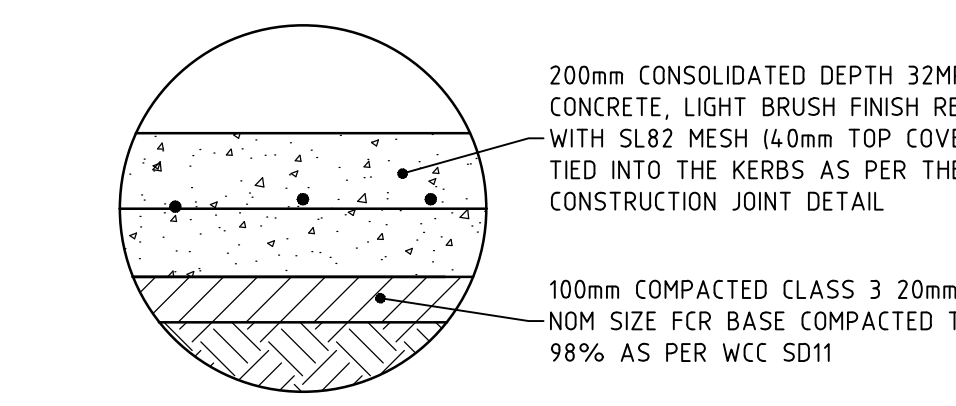
-  495mm PAVEMENT
-  545mm PAVEMENT
-  300mm CONCRETE PARKING BAY
-  300mm CONCRETE LANE WAY
-  125mm CONCRETE SLAB



REFER TO 1932E-16-29 FOR PAVEMENT DETAILS REGARDING COLOUR AND PATTERN

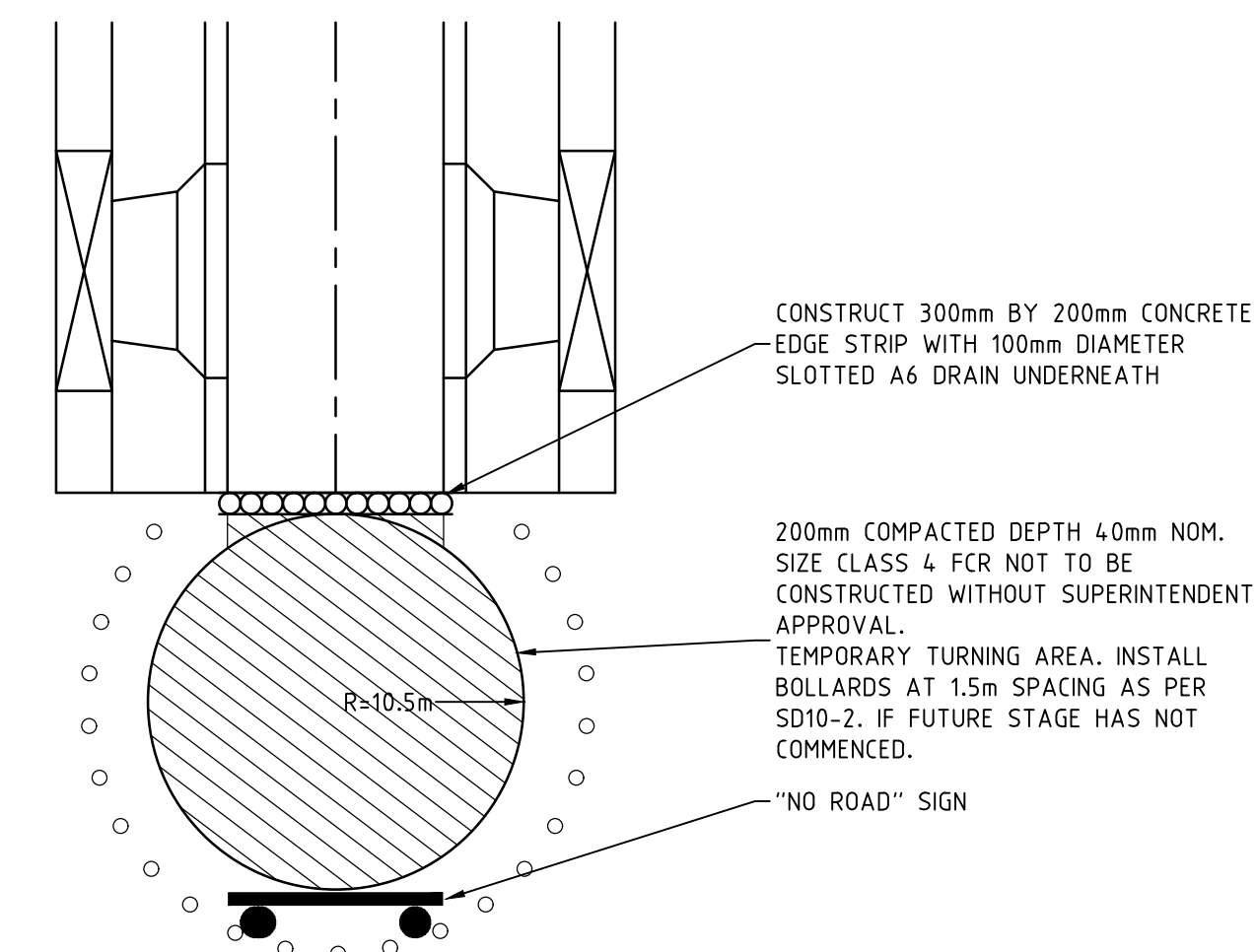


**DEPOT LANE PAVEMENT COMPOSITION CONCRETE PAVEMENT**  
300mm DEPTH



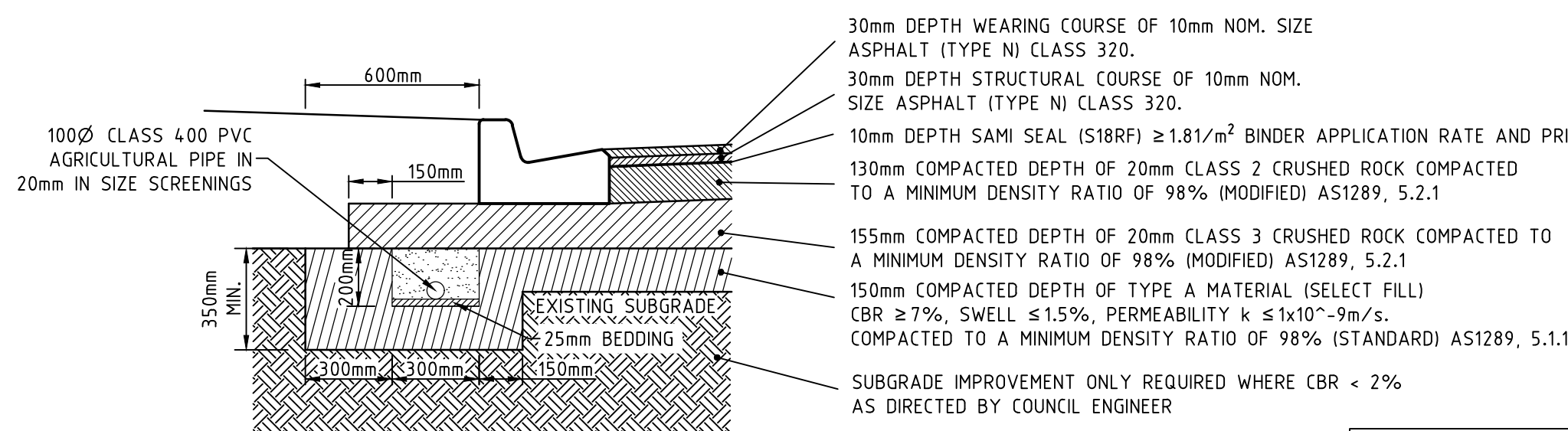
**PARKING BAY PAVEMENT COMPOSITION CONCRETE PAVEMENT**  
275mm DEPTH

**TYPICAL SECTION PARKING BAY - CHARCOAL COLOURED CONCRETE PAVEMENT**



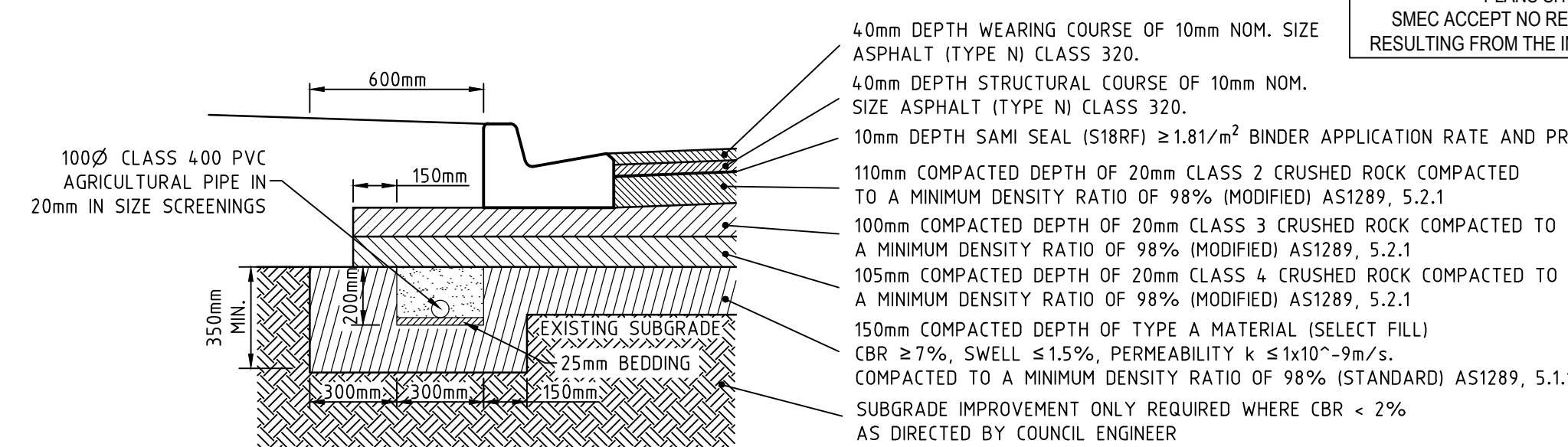
**TEMPORARY TURN AREA DETAIL**  
NOT TO SCALE

**PAVEMENT DESIGNS**  
ALL PAVEMENT DESIGNS HAVE BEEN PROVIDED BY TONKIN & TAYLOR LTD. SMEC IS NOT RESPONSIBLE FOR GEOTECHNICAL OR PAVEMENT RELATED DESIGNS AND IS NOT RESPONSIBLE FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THESE DESIGNS. THE PAVEMENT COMPOSITIONS SHOWN ON THIS DRAWING HAVE BEEN REPRODUCED FROM THE PAVEMENT REPORT FOR THIS DEVELOPMENT STAGE. THIS DOCUMENT SHOULD BE REVIEWED BY THE CONTRACTOR TO ENSURE DESIGN HAS BEEN INTERPRETED CORRECTLY. A COPY OF THIS DOCUMENT WILL BE MADE AVAILABLE UPON REQUEST.



**TAGGERTY STREET, PERRY ROAD & SHADY STREET PAVEMENT COMPOSITION (ACCESS STREET LEVEL 1)**

505mm PAVEMENT

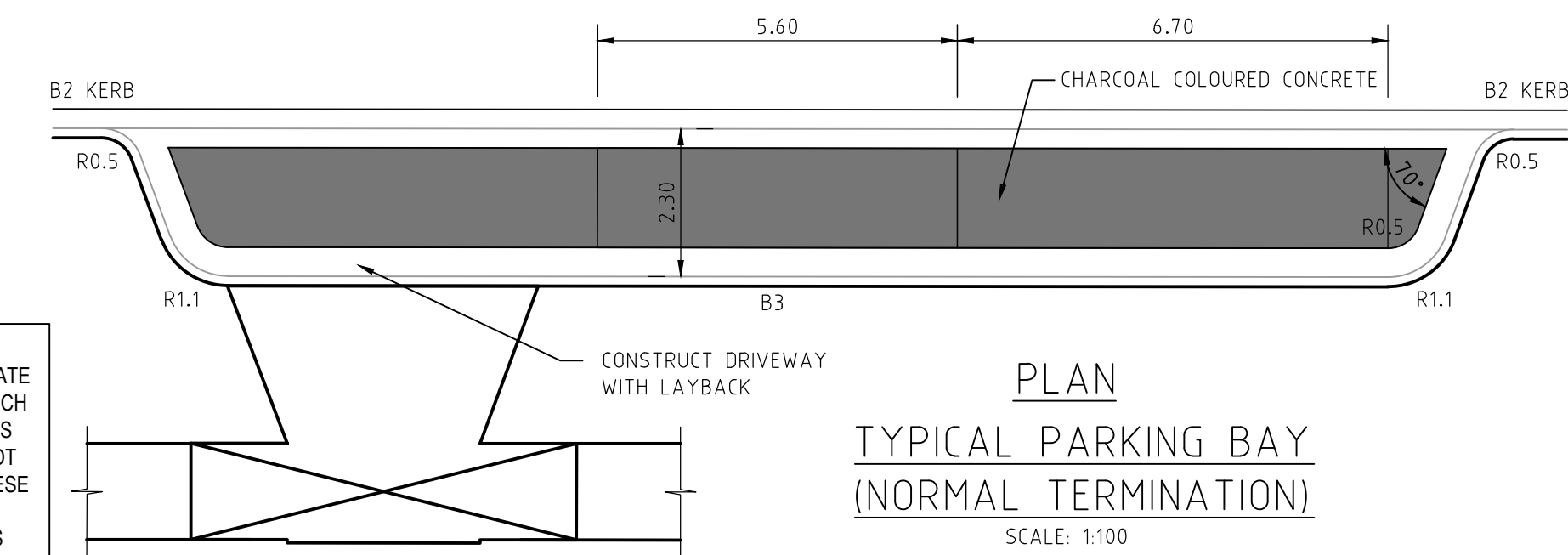


**DUTCHELM AVENUE & MURRINDAL STREET PAVEMENT COMPOSITION (ACCESS STREET LEVEL 2)**

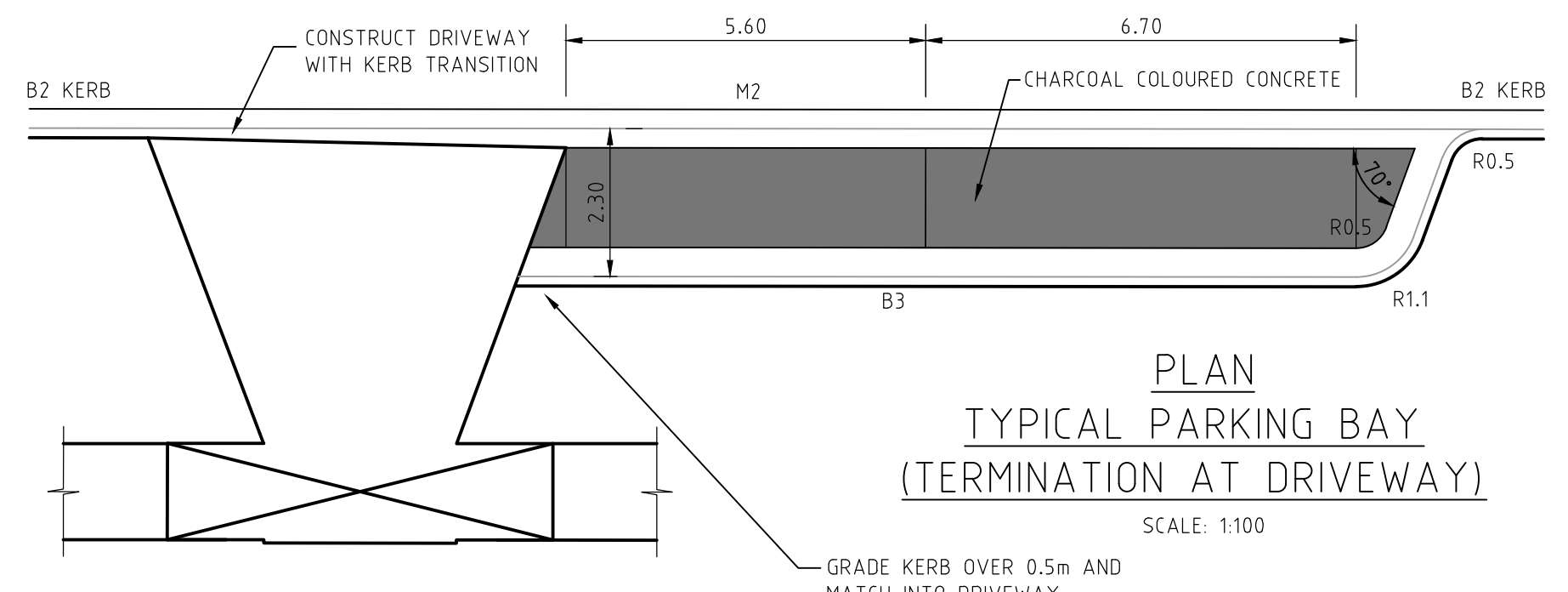
555mm PAVEMENT

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PLEASE NOTE PAVEMENT COMPOSITIONS HAVE BEEN ADOPTED BASED ON EXISTING STAGES.



**PLAN TYPICAL PARKING BAY (NORMAL TERMINATION)**  
SCALE: 1:100



**PLAN TYPICAL PARKING BAY (TERMINATION AT DRIVEWAY)**  
SCALE: 1:100

**GENERAL NOTES**

- THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDM ADDENDUM 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. THE CONTRACTOR SHALL ERCT 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.
- 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. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS E,G,H,R,T&W ABOVE CONDUIT LOCATIONS AS SPECIFIED. RESPECTIVE LETTERS TO BE INDICATED ABOVE RELEVANT CONDUITS AS PER STANDARD DRAWING EDM 303. CONDUITS TO BE PLACED MINIMUM OF 5m FROM BOUNDARIES AND TO THE SATISFACTION OF THE SUPERINTENDENT IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS.
- SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL AS PER STANDARD DRAWINGS EDM 202.
- ALL LINEMARKING, SIGNING AND TRAFFIC CONTROL DEVICES TO BE IN ACCORDANCE WITH VICROADS REQUIREMENTS WITH LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGAOUR OR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL (VICROADS SPECIFICATION SEE SECTION 710&722).
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- THE CONTRACTOR WHEN ENGAGED IN BLASTING OPERATION, SHALL NOT BLAST WITHIN 4.5m OF AN EXISTING LINE OF WATER, GAS OR SEWER PIPES OR WITHIN 15m OF ANY COMPLETED PART OF THE WORKS WITHOUT THE CONSENT OF THE ENGINEER.
- ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVES SHALL BE SURFACED WITH A 100mm MINIMUM TO 200mm MAXIMUM LAYER OF TOPSOIL AS SPECIFIED. ALL FILLING ON ALLOTMENTS TO BE COMPACTED TO 95% STANDARD COMPACTION IN 150mm LAYERS AND AS PER THE SPECIFICATION. WHERE THERE IS FILL IN EXCESS OF 300mm IN DEPTH, THE CONTRACTOR IS TO CARRY OUT SOIL TESTS TO THE REQUIREMENTS OF APPENDIX B AS SPECIFIED IN THE AUSTRALIAN STANDARD AS 3798-1996 TO SHOW THAT LEVEL 1 COMPACTION STANDARDS HAVE BEEN ACHIEVED. TEST RESULTS AND LOCATION OF TESTS FOR EACH ALLOTMENT SHALL BE APPROVED BY THE CONTRACTOR AND FORWARDED TO COUNCIL.
- FILL MATERIAL USED UNDER PAVEMENTS AND FOOTPATHS MUST BE AN APPROVED MATERIAL TO THE STANDARD OF WYNDHAM CITY COUNCIL. ALL SUTCH MATERIAL IS TO BE COMPACTED AS PER THE REQUIREMENTS OF THE SPECIFICATION APPROVED WITH THESE DRAWINGS PRIOR TO FORMWORK BEING PLACED. COMPACTION TESTS TO BE COMPLETED AND PROVIDED TO SUPERINTENDENT.
- FILL & CUT BATTERS ARE NOT TO EXCEED 1 IN 6 SLOPE, UNLESS SHOWN OTHERWISE.
- ALL ALLOTMENTS SHALL BE SMOOTHED, GRADED AND SHAPED TO AN EVEN SURFACE WITH A MINIMUM FALL OF 1 IN 150 TO THE DRAINAGE OUTLET SHOWN.
- ALL DRAINAGE PIPES ARE CLASS 2 RCP PIPES, RUBBER RING JOINTED UNLESS OTHERWISE SPECIFIED. DRAINAGE PITS SHALL BE CAST MONOLITHICALLY. CEMENT RENDER SHALL ONLY BE USED TO REPAIR DEFECTS.
- BACKFILLING OF TRENCHES WHERE DRAINAGE AND SEWERAGE ARE IN CLOSE PROXIMITY ARE TO BE BACKFILLED AS PER WYNDHAM CITY COUNCIL STANDARD DRAWING SD6-10.
- ALL SERVICING TRENCHES UNDER ROADS, FOOTPATHS, DRIVEWAYS, PARKING BAYS ETC. ARE TO BE BACKFILLED WITH CLASS 2 F.C.R.
- ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAN 5.00m FROM THE SIDE BOUNDARY.
- INVERT OF PROPERTY INLETS TO BE 500mm MINIMUM BELOW FINISHED SURFACE UNLESS NOTED OTHERWISE.
- VEHICLE CROSSINGS ARE TO BE PROVIDED AT 1m FROM SIDE BOUNDARY UNLESS OTHERWISE SHOWN IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARD DRAWINGS
- ADDITIONAL AND OVEREXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATION.
- FOOTPATH CROSSFALL TO BE 1:100
- ALL EXOTIC (NON NATIVE) TREES AND SHRUBS, INCLUDING DEAD TREES, NOT SHOWN ON THE DRAWINGS BUT LOCATED WITHIN THE WORKS ARE TO BE REMOVED AND DISPOSED OFFSITE.
- INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKER (BRPPM) ON ROAD CENTRELINE AND "GROUND BALL" MARKER POST TO INDICATE LOCATION OF FIREPLUG.
- THE CONTRACTOR IS TO ENSURE THAT THEIR CONSTRUCTION PROCEDURES AND STANDARDS CONTROL THE VOLUME AND LOCATION FOR COLLECTION OF SEDIMENT RUNOFF ACCORDING TO CURRENT EPA - ENVIRONMENTAL GUIDELINES FOR MAJOR CONSTRUCTION SITES.
- UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED UP, GRADED AND ALL RUBBISH REMOVED. THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
- EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL ENGINEER.
- THE LOWER SUB-BASE MATERIAL SHALL WILL BE N.D.C.R. FOR PAVEMENT MAKE UPS AS PER THE STANDARD DRAWINGS OF WYNDHAM CITY COUNCIL.
- TOTAL LENGTH OF ROADS CONSTRUCTED IS 355 m  
TOTAL LENGTH OF DRAINS CONSTRUCTED IS 597 m

**SP AUSNET (GAS) - STANDARD NOTES**

- GAS MAINS, FITTINGS AND MARKER TAPE ARE TO BE SUPPLIED BY TXU (GAS).
- 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 DISTRICT CENTRE.

**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.3725-2007, LOADS ON BURIED PIPES.
- CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPLACED & RELAID AT THE CONTRACTOR'S COST.

**PAVEMENT DETAIL NOTE**

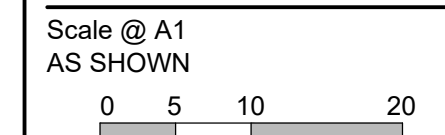
TOP 200mm OF CRUSHED ROCK FOR ALL PAVEMENTS COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289.5.2.1 STANDARD AND PROOF ROLLED

REVISION	DATE	DES/DFT	APPD
4	17.08.18	HE	LV
3	17.11.17	NG/SS	LV

Principal  
Development Victoria  
710 Collins Street  
Docklands, VIC - 3008

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Wyndham City Council  
Roadworks and Drainage  
General Notes & Details - 1

Drawing No. 1932E-16-28  
Sheet No. 28 of 33

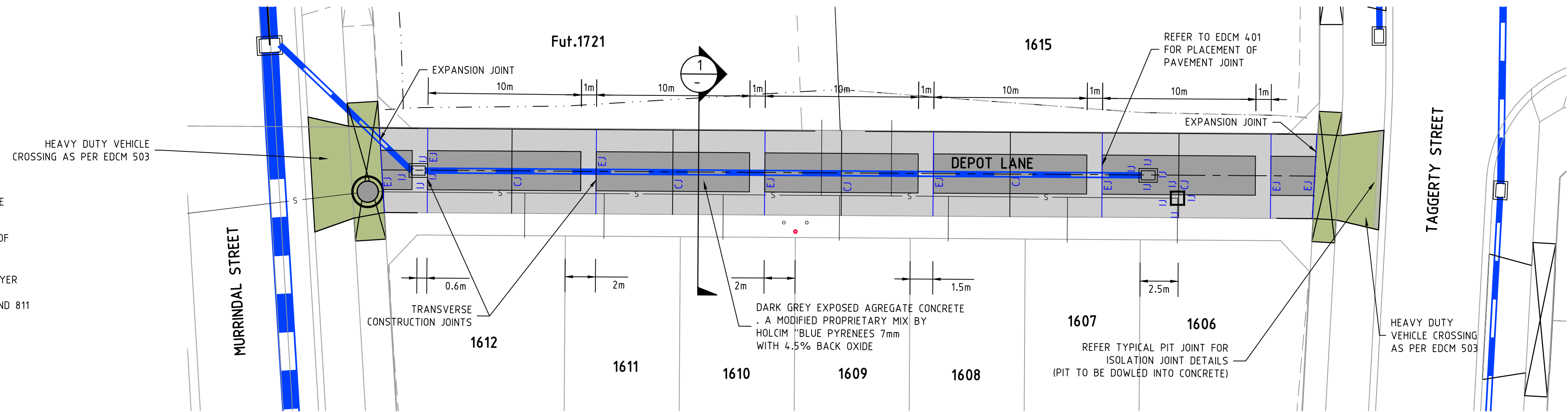
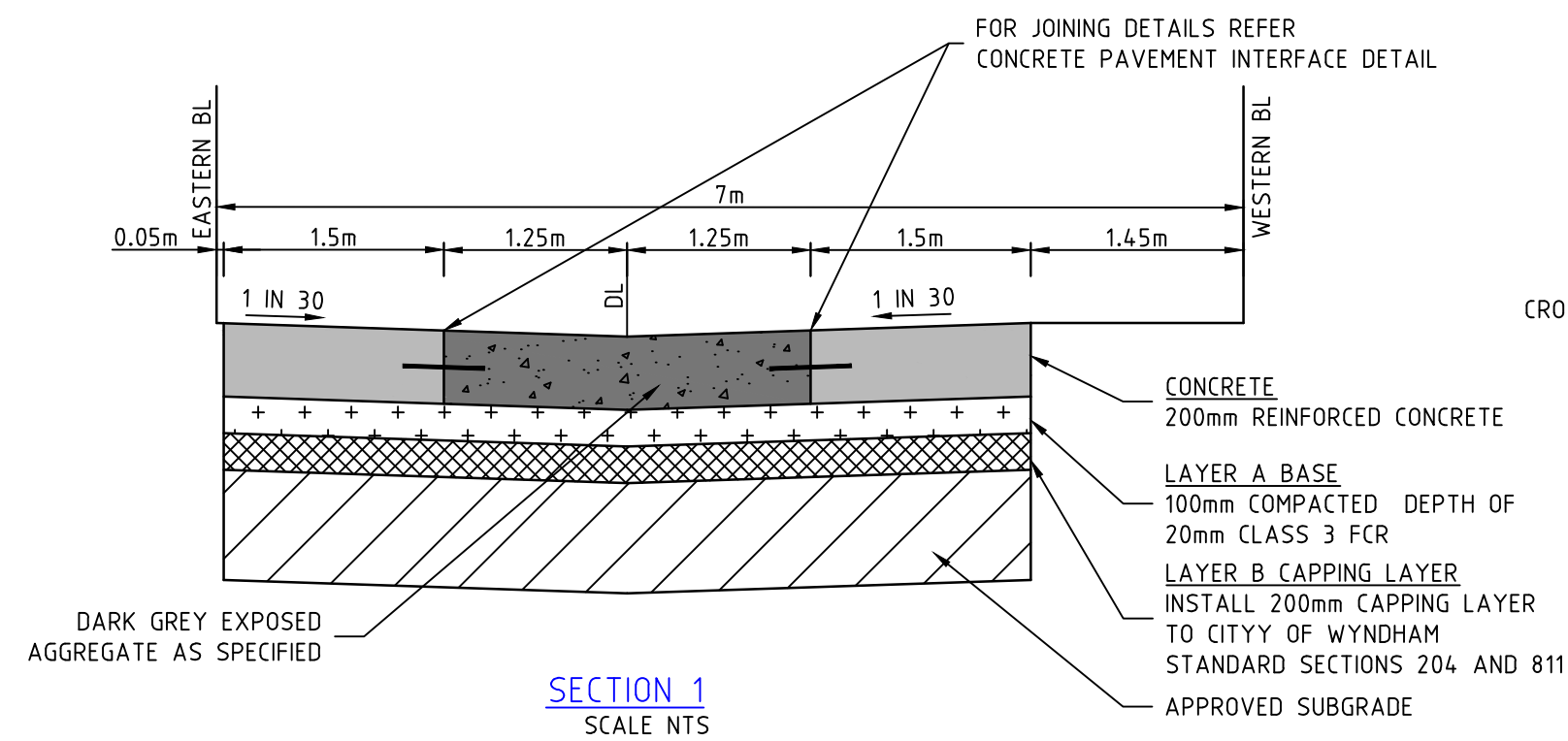
Rev 4

As Constructed



**AS CONSTRUCTED PLANS**

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SMEC ACCEPTS NO RESPONSIBILITY FOR LOSS OR DAMAGES RESULTING FROM THE INAPPROPRIATE USAGE OF THESE PLANS.



**CONCRETE NOTES:**

**1. GENERAL**

- 1.1. ENGINEERING DRAWINGS MUST NOT BE SCALED
- 1.2. CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS
- 1.3. ANY DISCREPANCIES MUST BE REFERRED TO THE ENGINEER IMMEDIATELY TO ENSURE CORRECT RECTIFICATION BEFORE PROCEEDING WITH THE WORK.
- 1.4. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH APPROPRIATE SAA CODES, VICTORIAN BUILDING REGULATIONS, AND BUILDING CODE OF AUSTRALIA
- 1.5. ALL REFERENCES TO SAA CODES, VBR'S AND BCA SHALL INCLUDE ALL AMENDMENTS
- 1.6. SUBSTITUTION SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER

**2. CONCRETE**

- 2.1. ALL CONCRETE SHALL BE IN ACCORDANCE WITH AS3600. CONCRETE COMPRESSION STRENGTH SHALL BE: 32MPA AT 28 DAYS FOR PAVEMENT OR AS NOTED ON DRAWINGS
- 2.2. WHEELBARROW RUNS IF USED MUST BE SUPPORTED DIRECTLY FROM THE FORMWORK AND NOT FROM THE REINFORCEMENT
- 2.3. MECHANICALLY VIBRATE CONCRETE DURING THE CONCRETE POUR
- 2.4. CONCRETE SURFACES MUST BE ADEQUATELY CURED FOR MINIMUM SEVEN DAYS
- 2.5. CONCRETE SIZES AS DRAWN ARE MINIMUM AND DO NOT INCLUDE APPLIED FINISHES
- 2.6. UNSPECIFIED CONSTRUCTION JOINTS MUST NOT BE MADE WITHOUT THE ENGINEERS PRIOR WRITTEN APPROVAL

**3. REINFORCEMENT**

- 3.1. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION. CLEAR COVER NOTED ON DRAWING(S) IS IN ACCORDANCE WITH AS3600 AND SHOULD NOT BE VARIED
- 3.2. LAPS IN REINFORCEMENT SHOULD COMPLY WITH AS3600
- 3.3. FIELD WELDING OF REINFORCEMENT IS ONLY PERMITTED WITH THE ENGINEER'S WRITTEN APPROVAL.
- 3.4. ALL REINFORCEMENT IS TO BE ACCURATELY PLACED, TIED AND SUPPORTED IN POSITION BY BAR CHAIRS AT 750MM CENTRES WHERE APPROPRIATE AND ADEQUATELY IN OTHER MEMBERS

**4. FORMWORK**

- 4.1. ALL FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS1509
- 4.2. RETAIN ALL FORMWORK IN POSITION FOR AT LEAST SEVEN DAYS

**5. SAWCUTS**

- 5.1. ALL SAWCUTS, ISOLATION JOINTS, TRANSVERSE CONTRACTION JOINTS AND INDUCED CRACKS TO BE INSTALLED AS PER EDCM 401.
- 5.2. EXPANSION JOINTS TO BE CONSTRUCTED AT 12m CENTRES AND AT CONNECTION WITH FOOTPATH.
- 5.3. CONSTRUCTION JOINTS TO BE CONSTRUCTED AT THE END OF CONCRETE POURS.

**6. PITS**

- 6.1. ALL PITS WITHIN THE LANEWAY ARE TO BE DOWLED INTO CONCRETE.

**7. VEHICLE CROSSINGS**

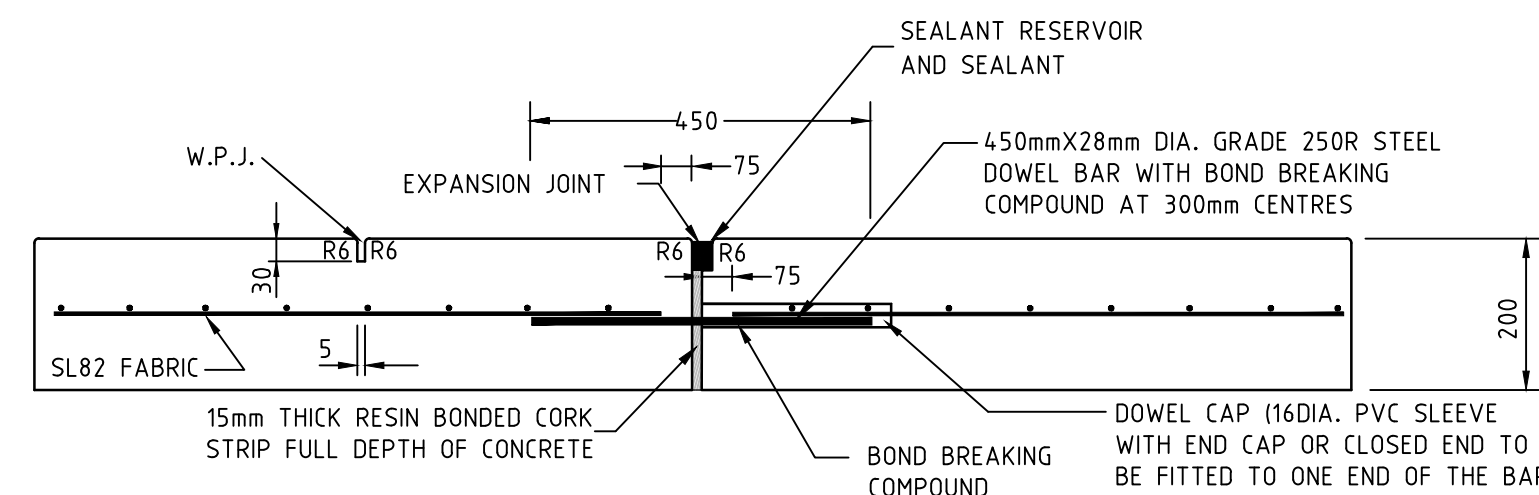
- 7.1. ALL VEHICLE CROSSINGS ALONG & AT BOTH ENDS OF DEPOT LANE TO BE HEAVY DUTY AS PER EDCM STANDARD DRAWING 503

**ALIGNMENT KC**

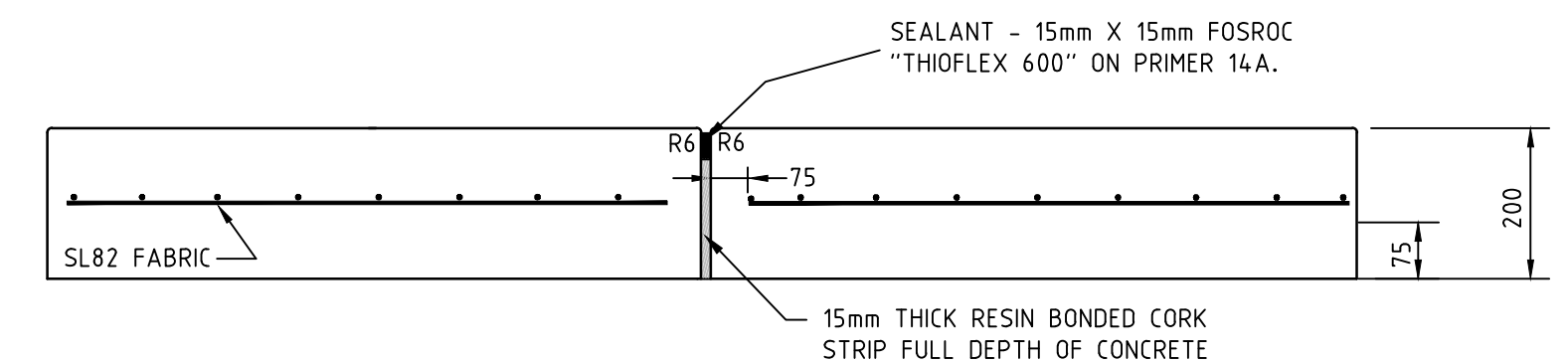
POINT NO	EASTING	NORTHING	RL
KC1	292844.590	5800858.535	20.243
KC2	292843.237	5800856.687	20.179
KC3	292844.561	5800854.818	20.215

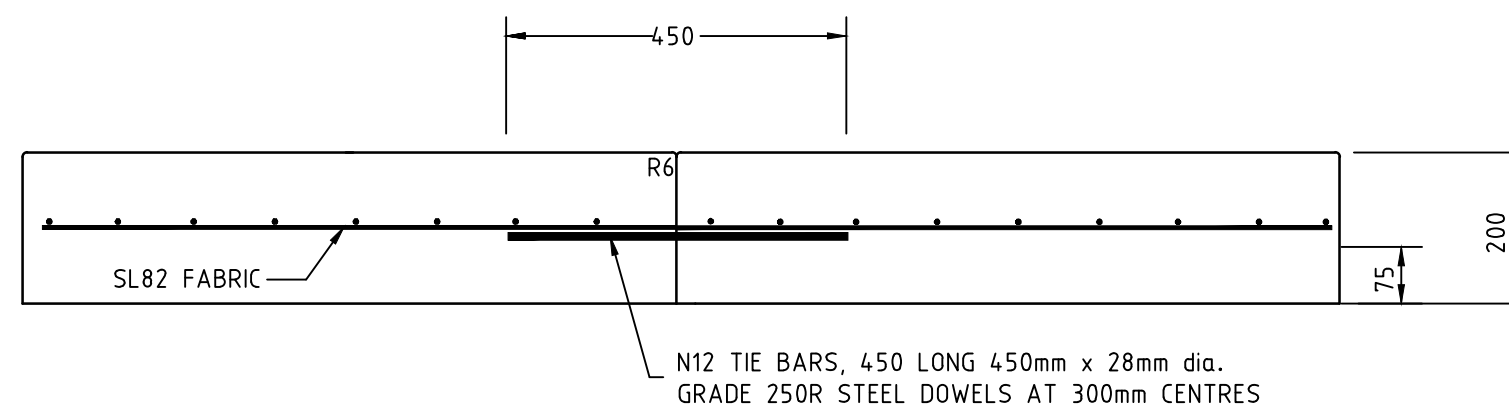
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
KC1 - KC2	71.506	1.959	2.445	0.369	0.275	0.601	0.543	0.611	20.211
KC2 - KC3	71.506	1.959	2.445	0.369	0.275	0.601	0.543	0.611	20.197



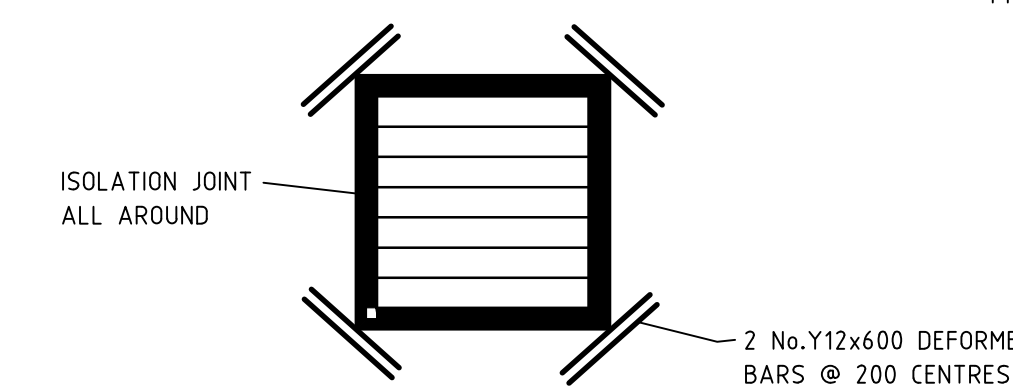
**CONTROL JOINT (WPJ) AND EXPANSION JOINT (EJ)**



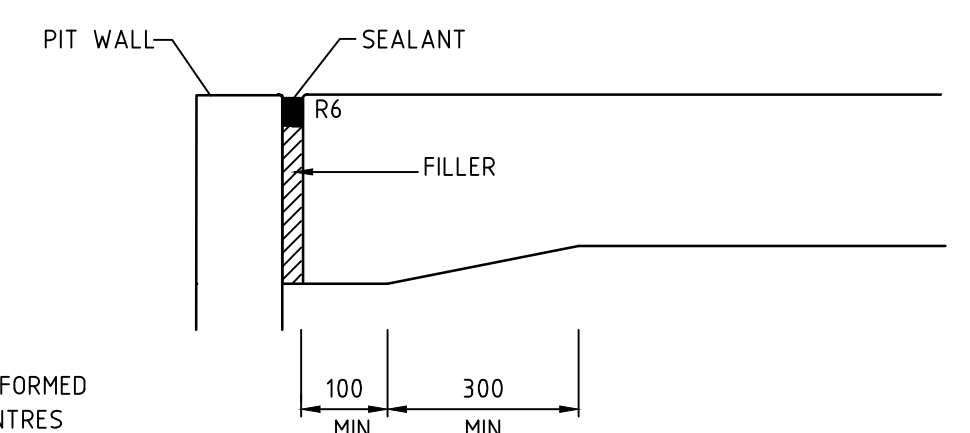
**ISOLATION JOINT (IJ)**



**CONSTRUCTION JOINT (CJ)**



**TYPICAL PIT JOINING**



**ISOLATION JOINT (IJ)**

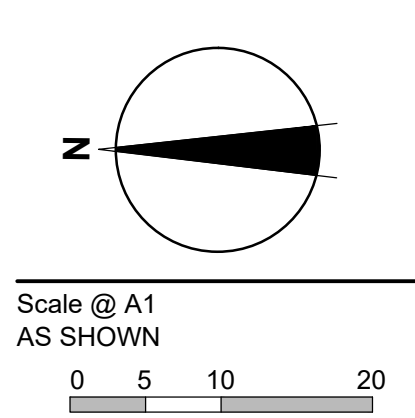
REVISION	DATE	DES/DFT	APPD
4 AS CONSTRUCTED	17.08.18	HE	LV
3 ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV



Principal  
Development Victoria  
710 Collins Street  
Docklands, VIC - 3008

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Designed  
B.Cheung  
Drawn  
S.Sathasivam  
Checked  
L.Vieyra  
Authorised  
S.Tsialtas  
Date  
May 2016



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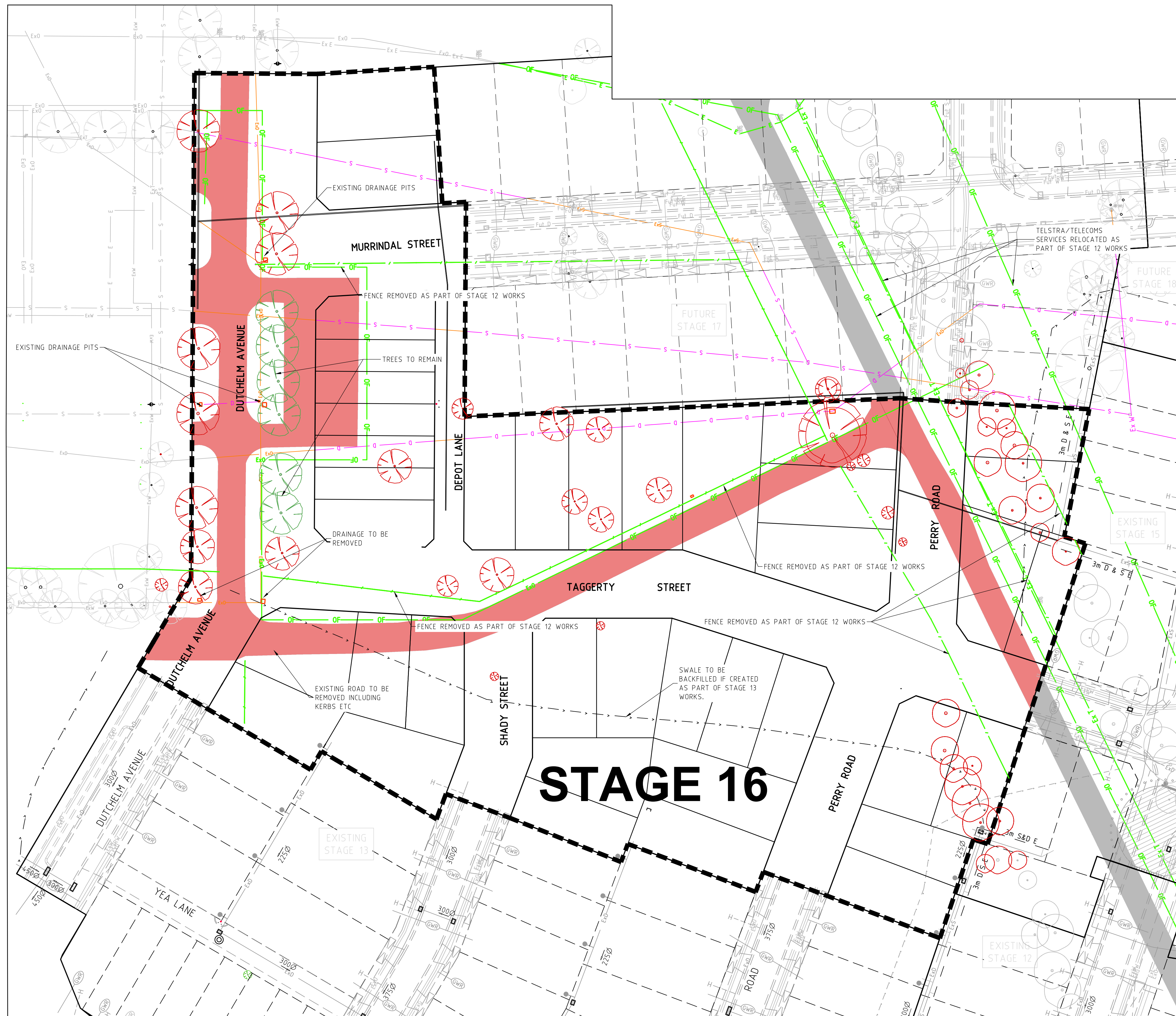
**River Walk**  
Stage 16  
Wyndham City Council  
Roadworks and Drainage  
General Notes & Details - 2

Drawing No. 1932E-16-29  
Sheet No. 29 of 33

Rev 4

As Constructed





NOTES :

- ASPHALT TO BE REMOVED FROM EXISTING ROADS WITHIN THE STAGE. ASSOCIATED KERBS, AGS AND DRIVEWAYS, LAYBACKS ETC TO ALSO BE REMOVED
- ALL EXISTING SERVICES, FENCES, IRRIGATION, PIPES, STAKES ETC WITHIN THE DEVELOPMENT AREA TO BE REMOVED TO THE SATISFACTION OF THE SUPERINTENDENT
- ALL TREES INCLUDING THEIR ROOTS WITHIN THE BOUNDARY OF THE STAGE TO BE REMOVED. ALL DISTURBED AREAS TO BE BACKFILLED TO LEVEL 1 SPECIFICATIONS TO THE SATISFACTION OF THE SUPERINTENDENT.
- EXISTING SWALES TO BE DESLUGGED & EXCAVATED TO A CLEAN FIRM BASE. SWALES WITHIN FUTURE ROAD RESERVES TO BE BACKFILLED WITH CLASS 3 FCR TO 98% COMPACTION AND FUTURE LOTS TO BE FILLED USING STRUCTURAL FILL WITH LEVEL 1 SUPERVISION.

LEGEND

- EXISTING ROAD TO HAVE ASPHALT REMOVED TO FIRM CRUSHED ROCK BASE TO THE SATISFACTION OF THE SUPERINTENDENT
- EXISTING ROAD TO BE REMOVED DURING CONSTRUCTION OF OTHER STAGES
- TREES TO BE REMOVED (ALL TREES REQUIRED TO BE REMOVED AS PART OF THE DEVELOPMENT ARE SHOWN IN RED.)
- Ex.S EXISTING SERVICES TO BE REMOVED TO THE SATISFACTION OF THE SUPERINTENDENT.
- Ex.S EXISTING SERVICES TO BE PROVEN. IF DEEPER THEN 450mm FROM DESIGN FINISHED SURFACE, PIPES TO BE GROUTED OTHERWISE TO BE REMOVED TO SATISFACTION OF COUNCIL SUPERINTENDENT.
- Ex.S EXISTING SERVICES & FENCES RELOCATED/REMOVED AS PART OF STAGE 12 WORKS

NOTE:  
IF EXISTING SERVICES DO NOT HAVE MINIMUM 450mm COVER TO FINISHED DESIGN LEVELS, SECTIONS OF PIPE TO BE REMOVED TO THE SATISFACTION OF THE SUPERINTENDENT.

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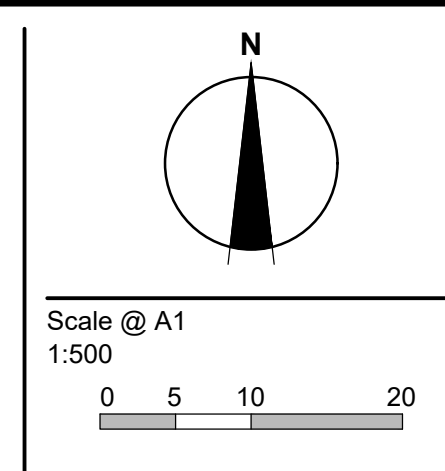
**WARNING**  
**BEWARE OF UNDERGROUND SERVICES**  
The locations of underground services are approximate only and their exact position should be proven on site.  
No guarantee is given that all existing services are shown. Locate all underground services before commencement of works  
**DIAL 1100 BEFORE YOU DIG**  
www.1100.com.au

REVISION	DATE	DES/DFT	APPD
3	17.08.18	HE	LV
2	17.11.17	NG/SS	LV

Principal  
Development Victoria  
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Docklands, VIC - 3008

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B.Cheung  
Drawn  
S.Sathasivam  
Checked  
L.Vieyra  
Authorised  
M.Bouwmeester  
Date  
August 2017



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**River Walk**  
Stage 16  
Wyndham City Council  
Roadworks and Drainage  
Demolition Plan

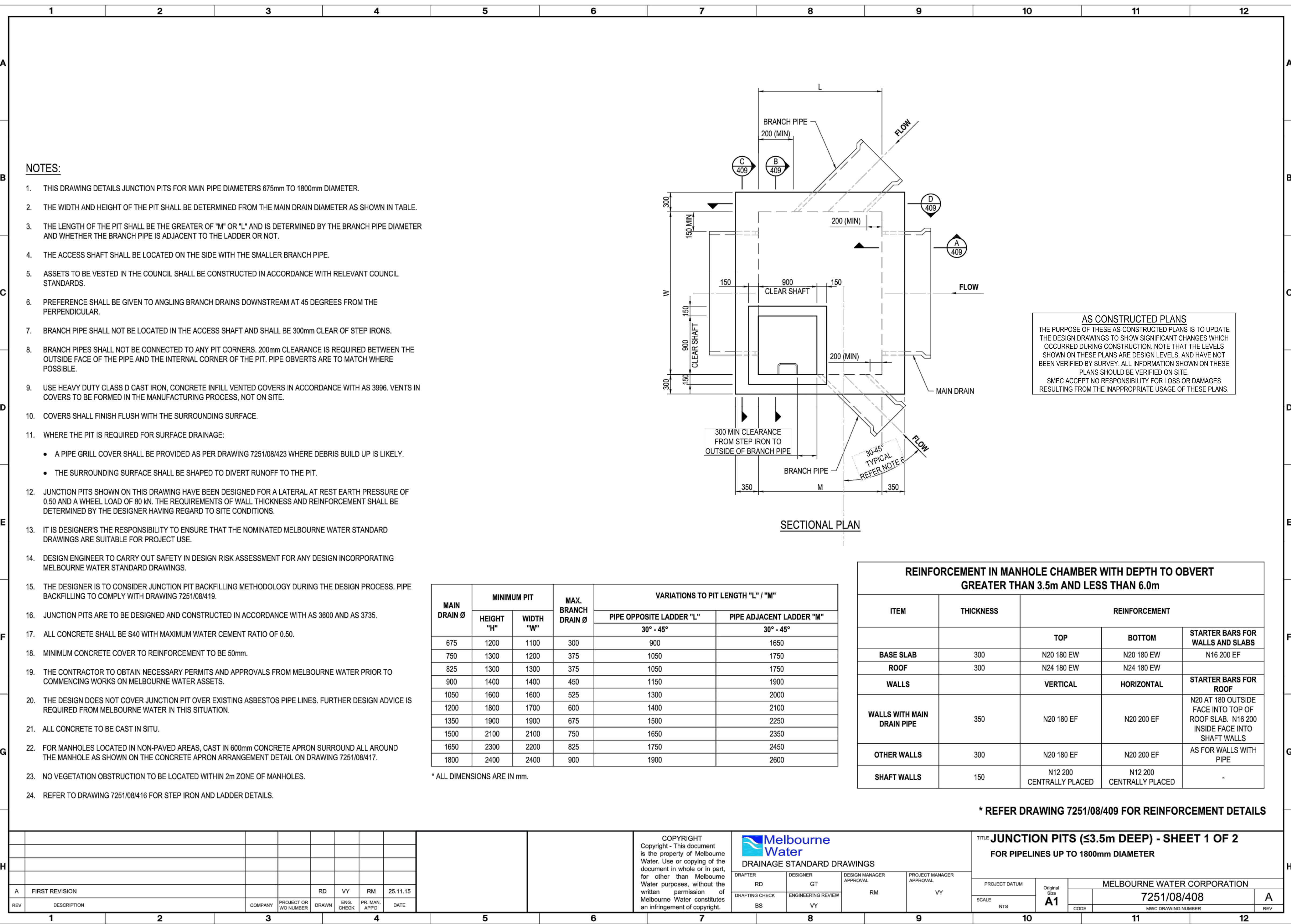
**Drawing No. 1932E-16-30**      **Rev 3**  
Sheet No. 30 of 33

**As Constructed**

v:\urban\projects\urban\1932e-riverwalk\1932e-16\asgpl\1932e-16-30



7251/08/408  
MWC DRAWING NUMBER



**NOTES:**

- THIS DRAWING DETAILS JUNCTION PITS FOR MAIN PIPE DIAMETERS 675mm TO 1800mm DIAMETER.
- THE WIDTH AND HEIGHT OF THE PIT SHALL BE DETERMINED FROM THE MAIN DRAIN DIAMETER AS SHOWN IN TABLE.
- THE LENGTH OF THE PIT SHALL BE THE GREATER OF "M" OR "L" AND IS DETERMINED BY THE BRANCH PIPE DIAMETER AND WHETHER THE BRANCH PIPE IS ADJACENT TO THE LADDER OR NOT.
- THE ACCESS SHAFT SHALL BE LOCATED ON THE SIDE WITH THE SMALLER BRANCH PIPE.
- ASSETS TO BE VESTED IN THE COUNCIL SHALL BE CONSTRUCTED IN ACCORDANCE WITH RELEVANT COUNCIL STANDARDS.
- PREFERENCE SHALL BE GIVEN TO ANGLING BRANCH DRAINS DOWNSTREAM AT 45 DEGREES FROM THE PERPENDICULAR.
- BRANCH PIPE SHALL NOT BE LOCATED IN THE ACCESS SHAFT AND SHALL BE 300mm CLEAR OF STEP IRONS.
- BRANCH PIPES SHALL NOT BE CONNECTED TO ANY PIT CORNERS. 200mm CLEARANCE IS REQUIRED BETWEEN THE OUTSIDE FACE OF THE PIPE AND THE INTERNAL CORNER OF THE PIT. PIPE OBVERTS ARE TO MATCH WHERE POSSIBLE.
- USE HEAVY DUTY CLASS D CAST IRON, CONCRETE INFILL VENTED COVERS IN ACCORDANCE WITH AS 3996. VENTS IN COVERS TO BE FORMED IN THE MANUFACTURING PROCESS, NOT ON SITE.
- COVERS SHALL FINISH FLUSH WITH THE SURROUNDING SURFACE.
- WHERE THE PIT IS REQUIRED FOR SURFACE DRAINAGE:
  - A PIPE GRILL COVER SHALL BE PROVIDED AS PER DRAWING 7251/08/423 WHERE DEBRIS BUILD UP IS LIKELY.
  - THE SURROUNDING SURFACE SHALL BE SHAPED TO DIVERT RUNOFF TO THE PIT.
- JUNCTION PITS SHOWN ON THIS DRAWING HAVE BEEN DESIGNED FOR A LATERAL AT REST EARTH PRESSURE OF 0.50 AND A WHEEL LOAD OF 80 kN. THE REQUIREMENTS OF WALL THICKNESS AND REINFORCEMENT SHALL BE DETERMINED BY THE DESIGNER HAVING REGARD TO SITE CONDITIONS.
- IT IS DESIGNER'S RESPONSIBILITY TO ENSURE THAT THE NOMINATED MELBOURNE WATER STANDARD DRAWINGS ARE SUITABLE FOR PROJECT USE.
- DESIGN ENGINEER TO CARRY OUT SAFETY IN DESIGN RISK ASSESSMENT FOR ANY DESIGN INCORPORATING MELBOURNE WATER STANDARD DRAWINGS.
- THE DESIGNER IS TO CONSIDER JUNCTION PIT BACKFILLING METHODOLOGY DURING THE DESIGN PROCESS. PIPE BACKFILLING TO COMPLY WITH DRAWING 7251/08/419.
- JUNCTION PITS ARE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS 3600 AND AS 3735.
- ALL CONCRETE SHALL BE S40 WITH MAXIMUM WATER CEMENT RATIO OF 0.50.
- MINIMUM CONCRETE COVER TO REINFORCEMENT TO BE 50mm.
- THE CONTRACTOR TO OBTAIN NECESSARY PERMITS AND APPROVALS FROM MELBOURNE WATER PRIOR TO COMMENCING WORKS ON MELBOURNE WATER ASSETS.
- THE DESIGN DOES NOT COVER JUNCTION PIT OVER EXISTING ASBESTOS PIPE LINES. FURTHER DESIGN ADVICE IS REQUIRED FROM MELBOURNE WATER IN THIS SITUATION.
- ALL CONCRETE TO BE CAST IN SITU.
- FOR MANHOLES LOCATED IN NON-PAVED AREAS, CAST IN 600mm CONCRETE APRON SURROUND ALL AROUND THE MANHOLE AS SHOWN ON THE CONCRETE APRON ARRANGEMENT DETAIL ON DRAWING 7251/08/417.
- NO VEGETATION OBSTRUCTION TO BE LOCATED WITHIN 2m ZONE OF MANHOLES.
- REFER TO DRAWING 7251/08/416 FOR STEP IRON AND LADDER DETAILS.

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**SECTIONAL PLAN**

MAIN DRAIN Ø	MINIMUM PIT		MAX. BRANCH DRAIN Ø	VARIATIONS TO PIT LENGTH "L" / "M"	
	HEIGHT "H"	WIDTH "W"		PIPE OPPOSITE LADDER "L"	
				30° - 45°	30° - 45°
675	1200	1100	300	900	1650
750	1300	1200	375	1050	1750
825	1300	1300	375	1050	1750
900	1400	1400	450	1150	1900
1050	1600	1600	525	1300	2000
1200	1800	1700	600	1400	2100
1350	1900	1900	675	1500	2250
1500	2100	2100	750	1650	2350
1650	2300	2200	825	1750	2450
1800	2400	2400	900	1900	2600

\* ALL DIMENSIONS ARE IN mm.

REINFORCEMENT IN MANHOLE CHAMBER WITH DEPTH TO OBVERT GREATER THAN 3.5m AND LESS THAN 6.0m				
ITEM	THICKNESS	REINFORCEMENT		
		TOP	BOTTOM	STARTER BARS FOR WALLS AND SLABS
BASE SLAB	300	N20 180 EW	N20 180 EW	N16 200 EF
ROOF	300	N24 180 EW	N24 180 EW	
WALLS		VERTICAL	HORIZONTAL	STARTER BARS FOR ROOF
				N20 AT 180 OUTSIDE FACE INTO TOP OF ROOF SLAB. N16 200 INSIDE FACE INTO SHAFT WALLS
WALLS WITH MAIN DRAIN PIPE	350	N20 180 EF	N20 200 EF	AS FOR WALLS WITH PIPE
OTHER WALLS	300	N20 180 EF	N20 200 EF	
SHAFT WALLS	150	N12 200 CENTRALLY PLACED	N12 200 CENTRALLY PLACED	

\* REFER DRAWING 7251/08/409 FOR REINFORCEMENT DETAILS

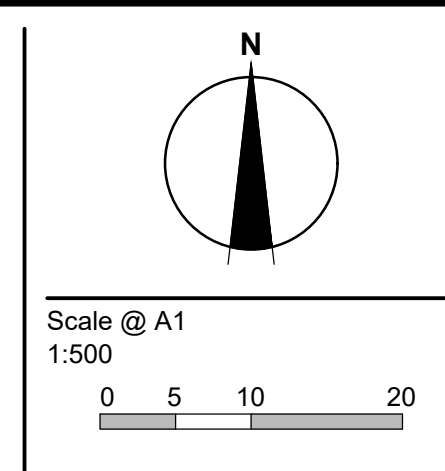
<p><b>COPYRIGHT</b> Copyright - This document is the property of Melbourne Water. Use or copying of the document in whole or in part, for other than Melbourne Water purposes, without the written permission of Melbourne Water constitutes an infringement of copyright.</p>		<p><b>Melbourne Water</b> DRAINAGE STANDARD DRAWINGS</p>		<p>TITLE <b>JUNCTION PITS (≤3.5m DEEP) - SHEET 1 OF 2</b> FOR PIPELINES UP TO 1800mm DIAMETER</p>	
<p>DRAFTER: RD DESIGNER: GT DESIGN MANAGER APPROVAL: RM PROJECT MANAGER APPROVAL: VY</p>		<p>DRAFTING CHECK: BS ENGINEERING REVIEW: VY</p>		<p>PROJECT DATUM: Original Size A1 SCALE: NTS</p>	
<p>COMPANY: PROJECT OR WO NUMBER: DRAWN: ENG. CHECK: PR. MAN. APPD: DATE: 25.11.15</p>		<p>MELBOURNE WATER CORPORATION 7251/08/408</p>		<p>CODE: MWC DRAWING NUMBER: REV: A</p>	

REVISION	DESCRIPTION	DATE	DES/DFT	APPD
1	AS CONSTRUCTED	17.08.18	HE	LV
0	ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV

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Drawn S.Sathasivam  
Checked L.Vieyra  
Authorised M.Bouwmeester  
Date August 2017



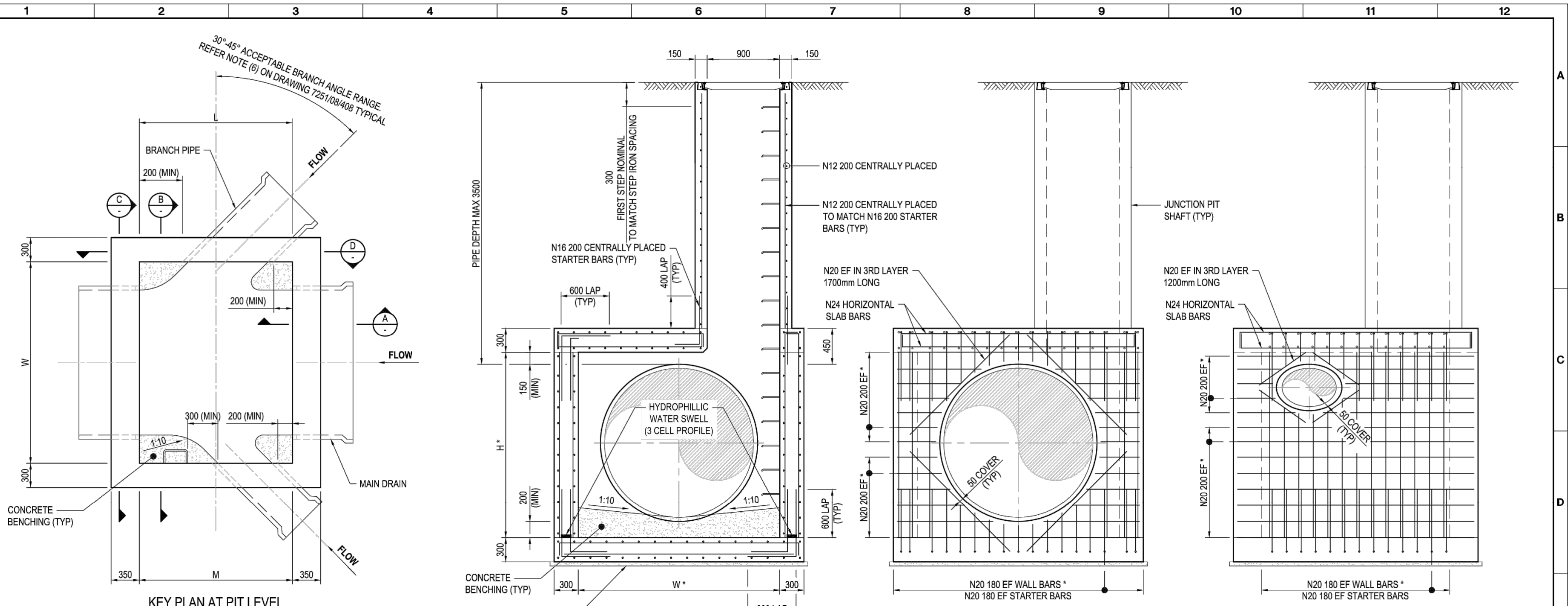
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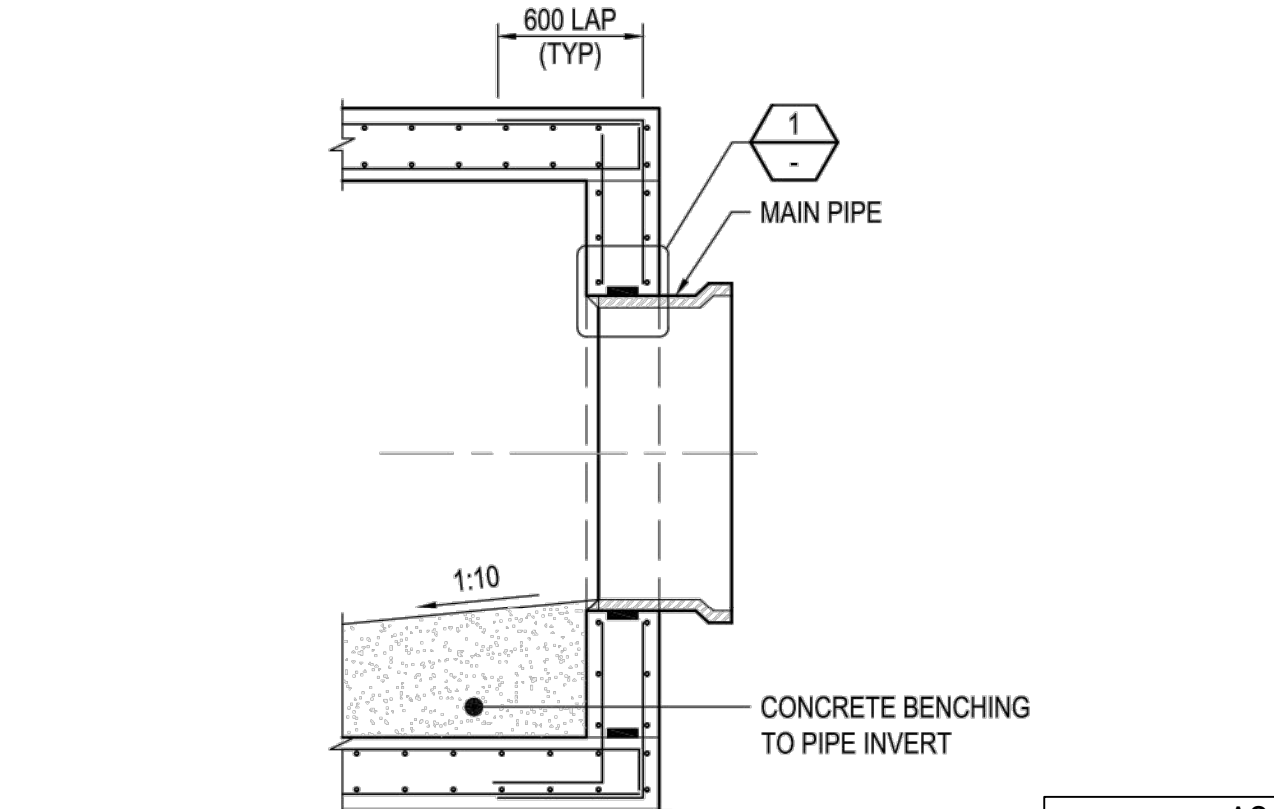
**River Walk**  
Stage 16  
Wyndham City Council  
Roadworks and Drainage  
Melbourne Water Standard Drawing  
7251/08/408 Junction Pits Sheet 1  
Drawing No. 1932E-16-31  
Sheet No. 31 of 33  
Rev 1  
As Constructed



7251/08/409  
MWC DRAWING NUMBER  
REV A

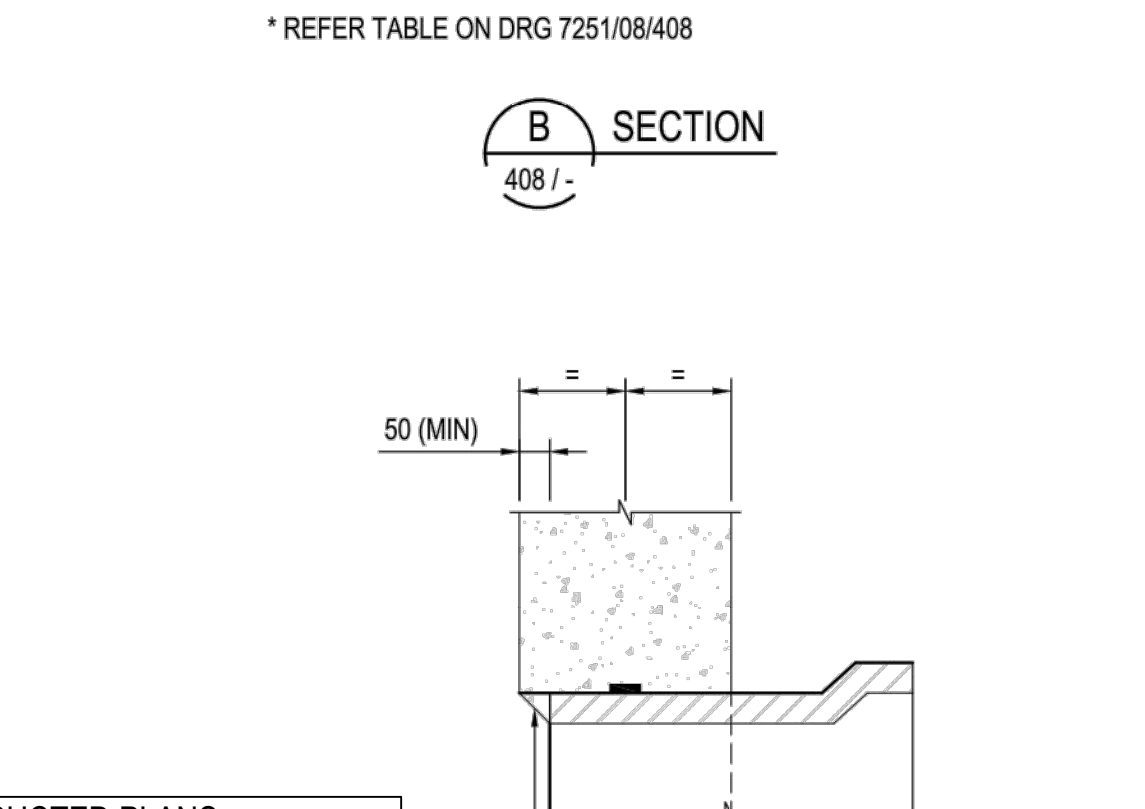


KEY PLAN AT PIT LEVEL



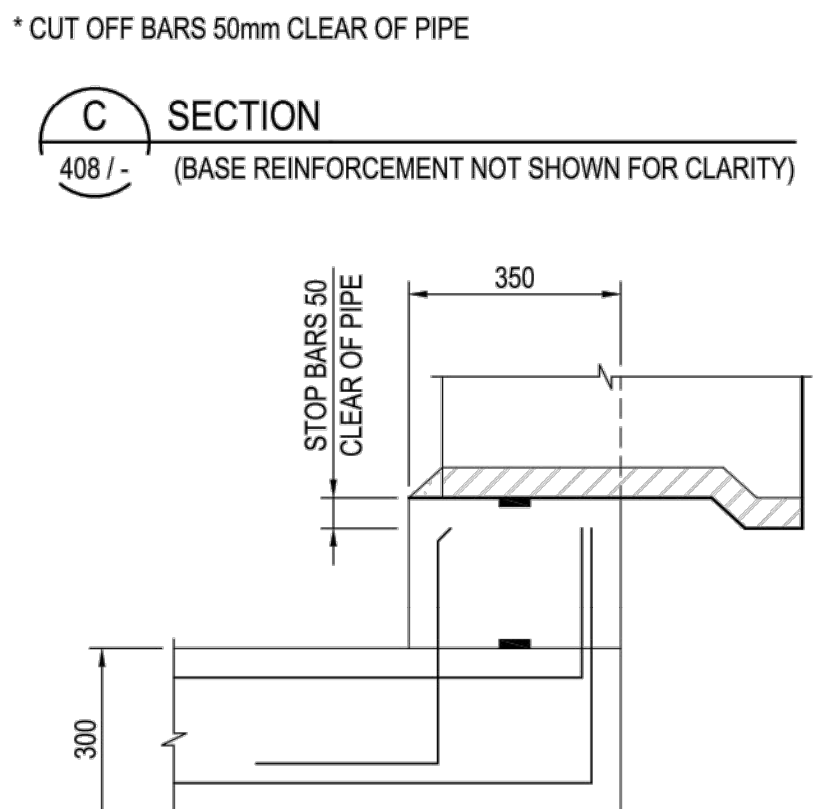
SECTION A  
SECTION B

SECTION C



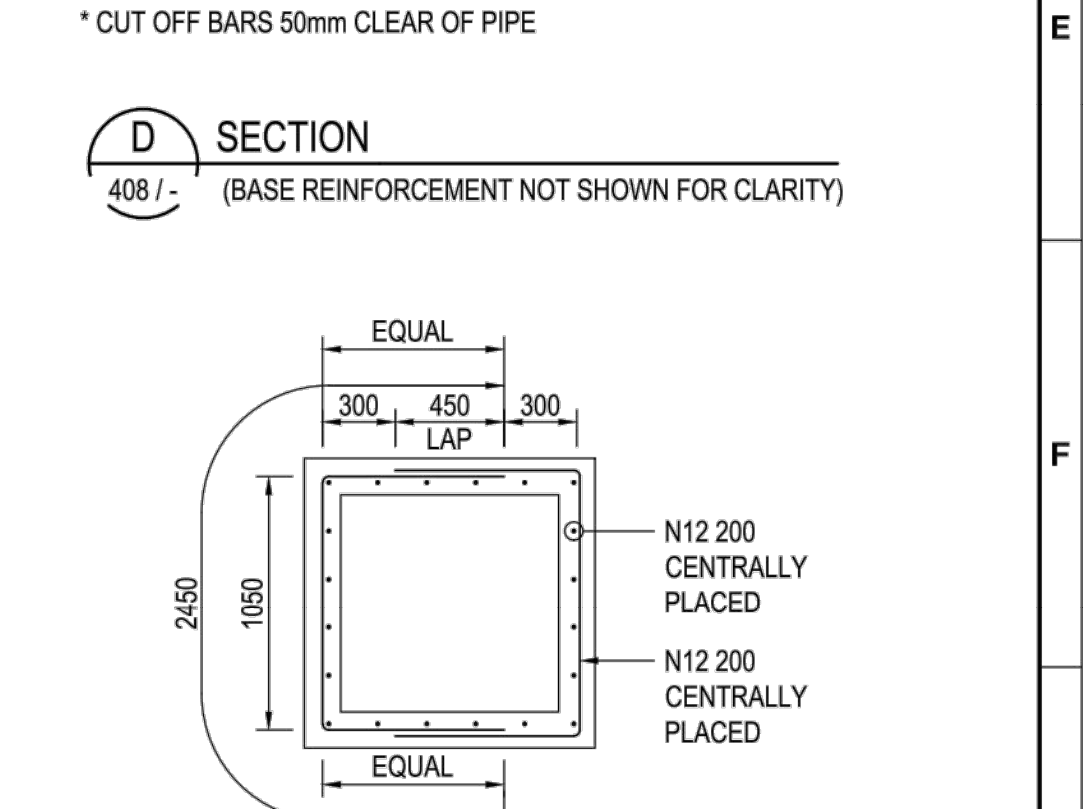
SECTION D

SECTION E



SECTION F

SECTION G



SECTION H

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**CORNER DETAILS**  
PLAN VIEW

**SHAFT REINFORCEMENT DETAIL**

\* REFER DRAWING 7251/08/408 FOR CONCRETE OUTLINE AND NOTES.

REV	DESCRIPTION	DATE	DES/DFT	APPD
A	FIRST REVISION	17.08.18	HE	LV
0	ISSUED FOR CONSTRUCTION	17.11.17	NG/SS	LV

**Melbourne Water**  
DRAINAGE STANDARD DRAWINGS

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**DESIGNER** GT  
**ENGINEERING REVIEW** VY  
**DESIGN MANAGER APPROVAL** RM  
**PROJECT MANAGER APPROVAL** VY

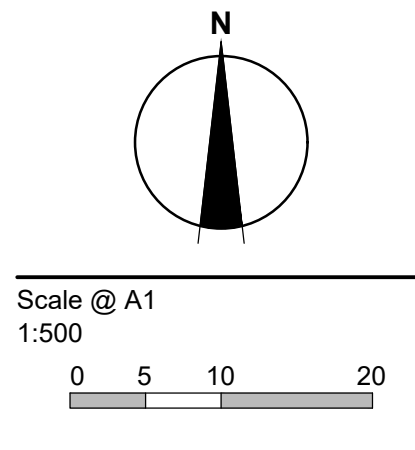
TITLE <b>JUNCTION PITS (≤3.5m DEEP) - SHEET 2 OF 2</b>			
FOR PIPELINES UP TO 1800mm DIAMETER			
PROJECT DATUM	Original Size	MELBOURNE WATER CORPORATION	
SCALE	NTS	7251/08/409	A
		CODE	MWC DRAWING NUMBER

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**River Walk**  
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Melbourne Water Standard Drawing  
7251/08/409 Junction Pits Sheet 2  
Drawing No. 1932E-16-32  
Rev 1  
Sheet No. 32 of 33  
As Constructed



PHASE	DISCIPLINE CODE	RISK REGISTER -Construction- Operations- Maintenance	POTENTIAL RISK	RISK OWNER	POTENTIAL CONSEQUENCES	POTENTIAL ELIMINATION MEASURE, DESIGN INITIATIVE or CONTROL (Identify any Standard or Code of practice used)	HOW ISSUE ADDRESSED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED YES/NO	Residual Risk Likelihood (0-5)	Residual Risk Consequence (0-5)	Residual Risk Rating	RESIDUAL RISK OWNER	
Construction	RD	#N/A	Construction close to live traffic	Contractor	Disruptions to live traffic, construction incident involving live traffic.	Provide safe temporary traffic control (TCP)	TCP provided within contract	N	5	3	15	Constructor	
Construction	RD	#N/A	Culverts	Contractor	Potential risk from culverts under construction and height / fall hazards	Falling from a height	Temporary barriers to be provided	Temporary barrier provided in contract	N	2	5	10	Constructor
Construction	US	#N/A	Utilities become a hazard within clear zones	Contractor	Personal injury, vehicle damage	Sequence works and protect with temp barrier or traffic control (TCP)	TCP provided within contract	N	1	5	5	Constructor	
Operational	RD	#N/A	Sight Lines	Road Authority	Inadequate drivers response time.	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Vis lines checked and discussed with approval authority as part of design approval process	N	1	4	4	Road Authority
Operational	LS	#N/A	Signs and street lights	Road Authority	Potential for drivers / riders to strike signs and street lights	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Refer to appropriate standard for sign and lighting offsets	N	1	4	4	Road Authority
Operational	RF	#N/A	Headwalls	Road Authority	Potential vehicle conflict within clear zone	Increased potential for accidents	Establish adequate clear zone provision	Adequate barrier provided as per appropriate standard where within clear zone. Culvert headwall selection in accordance with authority standard	N	2	4	8	Road Authority
Operational	RD	#N/A	Culverts	Relevant Authority	Potential fall hazard during maintenance, by vehicles and pedestrians	Falling from a height	Barriers to be provided in accordance with road standards	Barriers to be provided and safe batter slopes (>1:3)	N	2	5	10	Constructor
<b>Drainage</b>													
Operational	DR	#N/A	Grated Pits	Relevant Authority	Trip/fall hazard with large spaced grate	Increased potential for accidents	Provide pedestrian/bicycle friendly grates where applicable. Refer to pit schedule	Design in accordance with authority and manufacturers standards	N	3	2	6	Authority
Operational	DR	#N/A	Non Standard Large Pits	Relevant Authority	Potential for pit failure	Increased risk to maintenance crews/ vehicles	Structural design in accordance with relevant design principles.	Refer to structural drawings and calculations	N	1	4	4	Authority
Operational	DR	#N/A	Culvert Endwalls/Headwalls	Relevant Authority	Potential for falling from height	Increased potential for accidents	Fencing to be provided where culverts/headwalls are at height in accordance with relevant authority standards	Allow for fencing in Design Process	N	1	4	4	Authority
Operational	DR	#N/A	Culvert Endwall/Headwall Outlets	Relevant Authority	Children playing in large pipes / watercourses and access for maintenance	Increased potential for accidents	Grate provided to authority standards	Design in accordance with authority and manufacturers standards	N	2	5	10	Authority
Maintenance	DR	#N/A	Access to Pits	Relevant Authority	Lack of safe access for maintenance	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Provide safe landing/ access arrangements as per relevant authority standards	Where possible design pit in location for easy access and outside of permanent water bodies	N	2	5	10	Authority
Maintenance	DR	#N/A	Deep Pits	Relevant Authority	Lack of safe entry for maintenance	Increased potential for accidents	Contractor to be certified for work in confined spaces, step irons to be provided to appropriate authority standards. Refer to pit schedule	Design in accordance with authority standards	N	1	5	5	Authority
Maintenance	DR	#N/A	Access to drains / culverts	Relevant Authority	Lack of safe access for maintenance	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Access as approved by authority	Design pit in location for easy access as agreed with authority	N	2	3	6	
<b>Sewer</b>													
Construction	SE	#N/A	Sewer Manhole located adjacent to Retaining Wall Alignment	Contractor	Falling from height during construction or commissioning of adjacent sewer manholes	Falling from a height	Provide temporary fencing until such time that permanent fencing is constructed	Provide fencing (at heights) during design process	N	1	1	1	Constructor
Maintenance	SE	#N/A	Deep Manholes	Relevant Authority	Lack of safe entry for maintenance	Increased potential for accidents	Contractor to be certified for work in confined spaces, landings and step access provided as per authority standards and schedule	Design in accordance with authority standards. Refer pit schedule on drawings	N	1	5	5	Authority
Maintenance	SE	#N/A	Access to Manholes	Relevant Authority	Lack of safe access for maintenance	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Manholes located in compliance with authority standards	Where possible design manhole in location for easy access	N	1	5	5	Authority
Maintenance	SE	#N/A	Pump Station Access	Relevant Authority	Lack of safe access for maintenance	Increased risk to maintenance crews	Provide safe working conditions for maintenance	Design pump station in location for easy access	N	2	4	8	Authority
<b>Electricity</b>													
Operational	ES	#N/A	Electrical Design	Relevant Authority	Location of assets within clear zones e.g. pits/ substations	Increased potential for accidents	Electrical designed by sub consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
<b>Telstra</b>													
Operational	TE	#N/A	Telstra Design	Relevant Authority	Location of assets within clear zones e.g. pits	Increased potential for accidents	Telecommunications designed by authority consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
<b>Water</b>													
Operational	WA	#N/A	Water Design	Relevant Authority	Location of assets within clear zones e.g. pits/ substations	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
<b>Gas</b>													
Operational	GA	#N/A	Gas Design	Relevant Authority	Location of assets within clear zones e.g. pits/ substations	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	1	1	1	Authority
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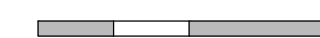
REVISION	DATE	DES/DFT	APPD
2	AS CONSTRUCTED	17.08.18	HE LV
1	ISSUED COUNCIL FOR APPROVAL	17.11.17	NG/SS LV



All setting out should be carried out in accordance with GAA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

Designed  
B.Cheung  
Drawn  
S.Sathasivam  
Checked  
L.Vieyra  
Authorised  
S.Tsialtas  
Date  
May 2016

Scale @ A1



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**River Walk**  
Stage 16  
Wyndham City Council  
Roadworks and Drainage  
Safety In Design

Drawing No. 1932E-16-85  
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Rev 2

As Constructed