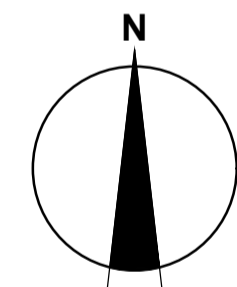
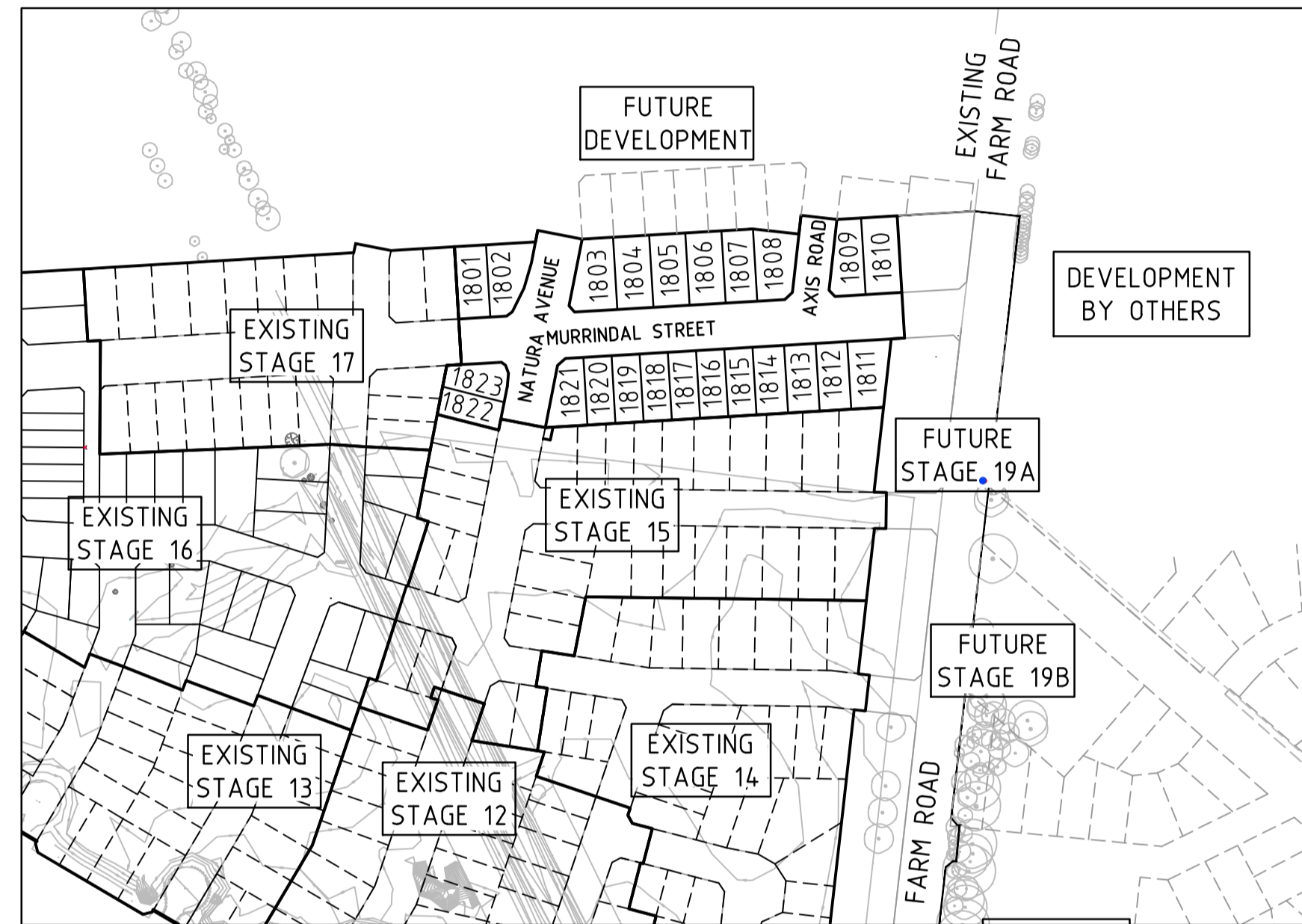


# River Walk

## Stage 18

### Wyndham City Council



LOCALITY PLAN  
MELWAYS REF: 205 F12

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

#### Drawing Index

- 1932E-18-01 Cover Plan
- 1932E-18-02 Layout Plan
- 1932E-18-03 Earthworks Plan
- 1932E-18-04 Intersection Detail Plan
- 1932E-18-05 Signs & Linemarking Plan
- 1932E-18-06 Lip Profiles - 1
- 1932E-18-07 Lip Profiles - 2
- 1932E-18-08 Setout Information
- 1932E-18-09 Longitudinal Sections - 1
- 1932E-18-10 Longitudinal Sections - 2
- 1932E-18-11 Longitudinal Sections - 3
- 1932E-18-12 Cross Sections : Murrindal Street Ch 213.738 - Ch 330.263
- 1932E-18-13 Cross Sections : Murrindal Street Ch 342.736 - Ch 410.110
- 1932E-18-14 Cross Sections : Natura Avenue
- 1932E-18-15 Cross Sections : AXIS Road
- 1932E-18-16 Drainage Longitudinal Sections - 1
- 1932E-18-17 Drainage Longitudinal Sections - 2
- 1932E-18-18 Drainage Longitudinal Sections - 3
- 1932E-18-19 Pit Schedule
- 1932E-18-20 General Notes & Details
- 1932E-18-21 7251/08/405 Manholes (>3.5 & <6m Deep) - For Pipelines Up To 1800mm Diameter
- 1932E-18-22 Twin Pipe Trenching & inlet pit detail
- 1932E-18-85 Safety In Design
- 1932E-18-99 Demolition Plan



Level 10, 71 Queens Rd,  
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A.B.N. 47 065 475 149

**AS CONSTRUCTED PLANS**  
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SMC ACCEPTS 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-18-85  
**ASSESS THE RISK - STAY SAFE**



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.

**WARNING**  
**BWARE OF UNDERGROUND SERVICES**  
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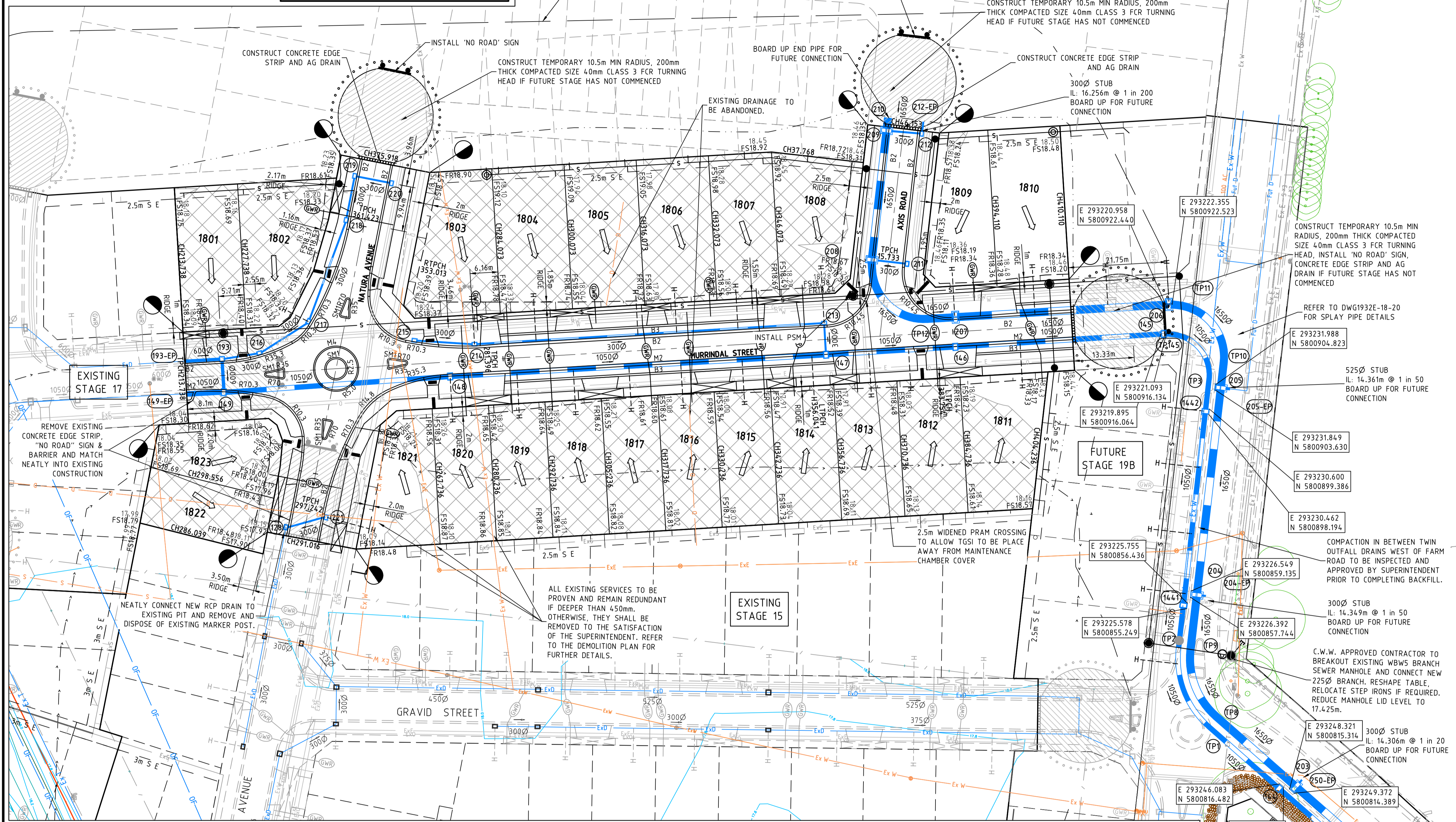
**FUTURE DEVELOPMENT**

SWALE TO BE PROVIDED AROUND STAGE TO PREVENT OVERLAND FLOW.

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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 (OVERHEAD) (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
- EXISTING 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 SERVICES TO BE ABANDONED OR REMOVED
- EXISTING SERVICES TO REMAIN



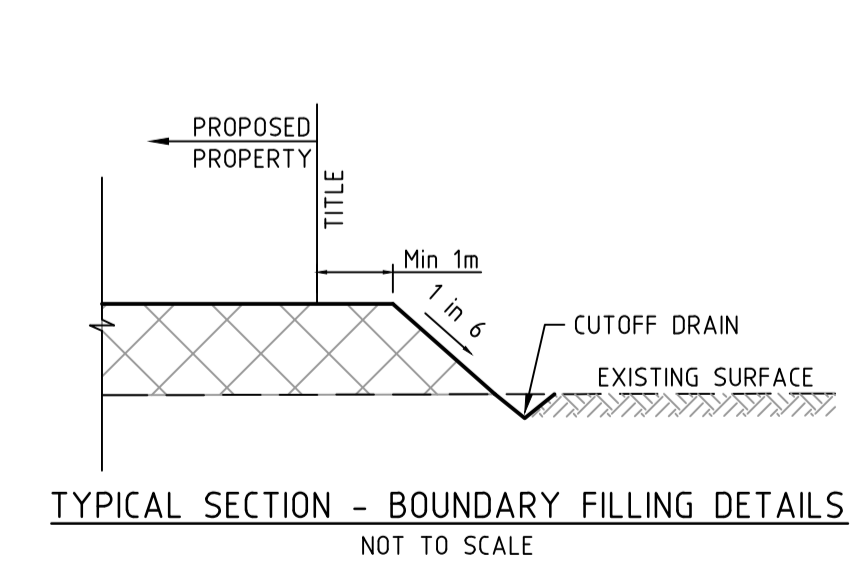
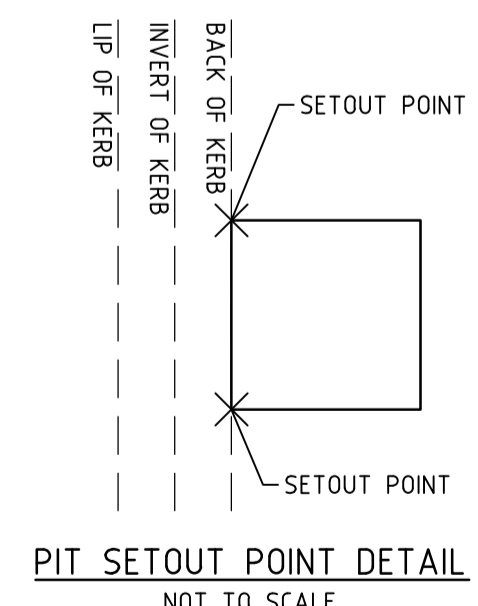
- NOTES:**
- REFER TO DWG 1932E-18-99 FOR DEMOLITION PLAN, INCLUDING INFORMATION REGARDING EXISTING SERVICES, SERVICES TO BE ABANDONED OR REMOVED BASED ON THE DISCRETION OF THE OWNER OF EACH ASSET.
  - ALL EXISTING TREES & EXISTING SERVICES NOT REQUIRED AS PART OF THESE WORKS WILL BE NEED TO BE REMOVED OR RELOCATED.
  - 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.
  - 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.
  - EXISTING SERVICE CONNECTIONS TO NEIGHBORING PROPERTIES TO BE KEPT LIVE. CONTRACTOR TO CONFIRM SERVICES AND ENSURE THESE ARE CONNECTED TO THE NEW INFRASTRUCTURE BEING PROVIDED.

**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
AXIS ROAD	AS1	16.00	6.40	7.00	7.30	B2	B2	4.35	4.35
MURRINDAL STREET	AS1	20.20	5.40	6.00	6.30	B2/M2	B2/M2	4.65/VARIES	4.65/VARIES
NATURA AVENUE	AS1	20.00	6.40	7.00	7.30	B2	B2	4.35	8.35

**SERVICES OFFSET SCHEDULE**

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)		
AXIS ROAD	EAST	2.20	EAST	3.25	EAST	2.70	WEST	2.60	WEST	1.85	EAST	0.8
MURRINDAL STREET	NORTH	2.25	NORTH	3.45	NORTH	2.75	SOUTH	3.10	SOUTH	2.35	NORTH	0.8
NATURA AVENUE	EAST	5.75	EAST	6.25	EAST	6.75	EAST	2.00	EAST	1.00		

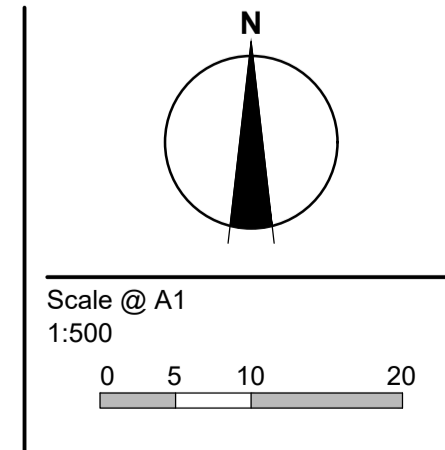


REVISION	DATE	DES/DFT	APPD
7	18.12.18	HE/HE	LV
6	21.08.18	HE/HE	LV
5	15.06.18	NG/NG	MB
4	10.04.18	NG/NG	MB
3	04.12.17	BC/NS	MB

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

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Designed  
B.Cheung  
Drawn  
N.Shrestha  
Checked  
L.Vieira  
Authorised  
M.Bouwmeester  
Date  
June 2016

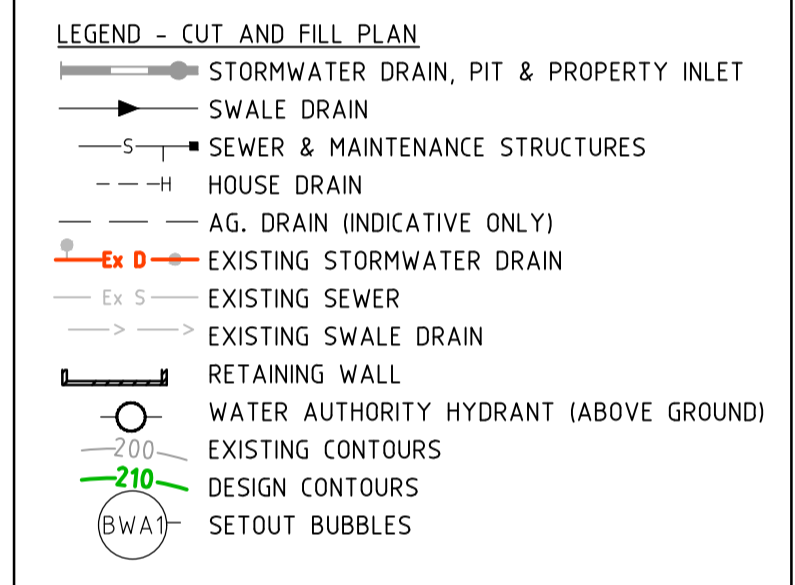
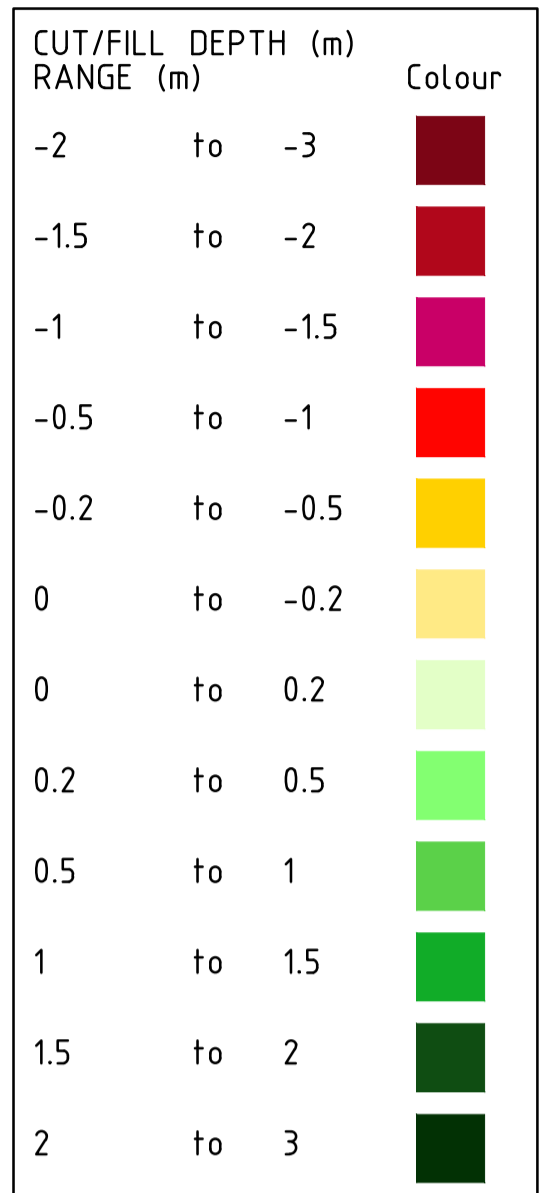
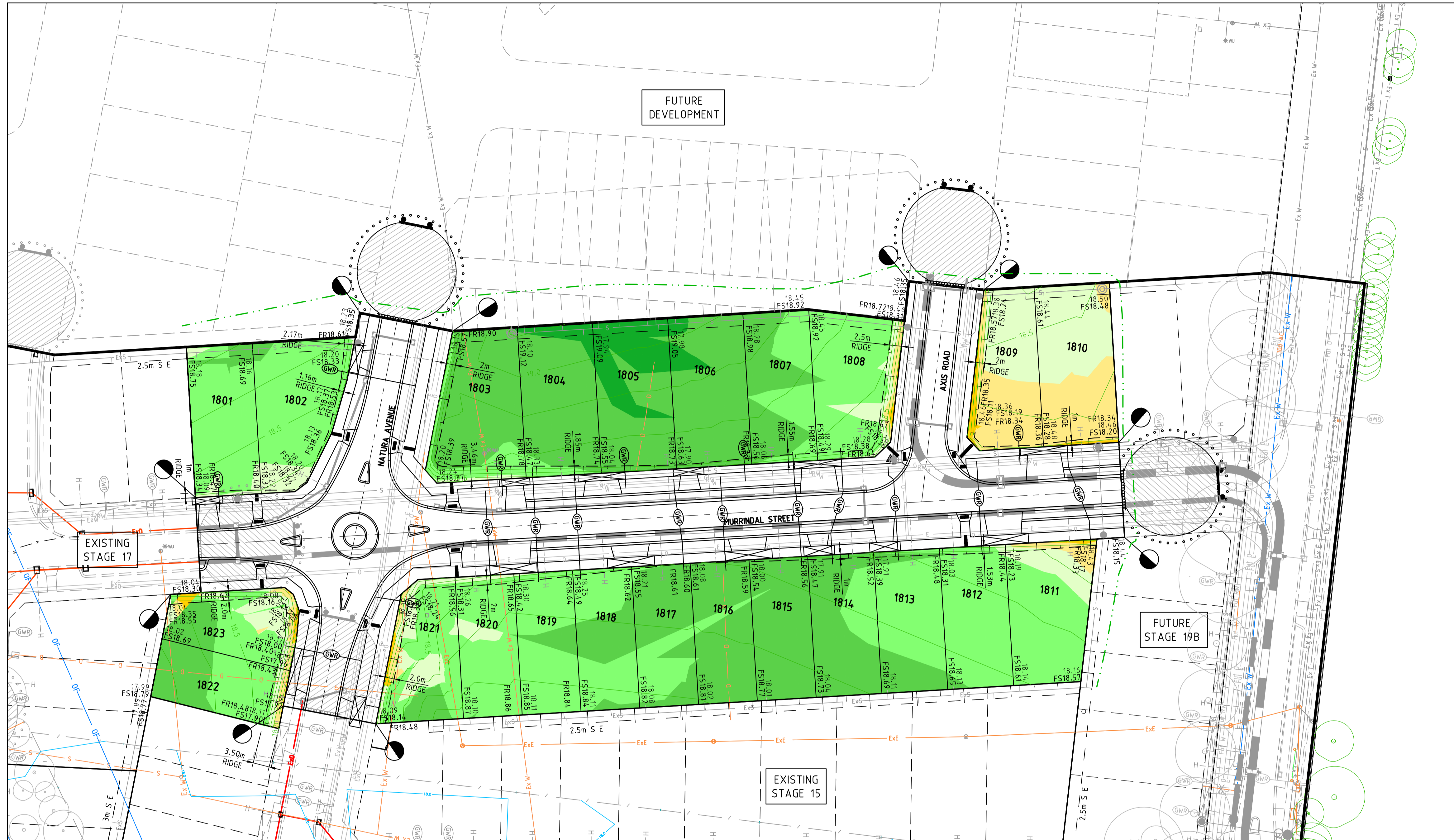


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**River Walk**  
Stage 18  
Wyndham City Council  
Roadworks and Drainage  
Layout Plan - 1  
**Drawing No. 1932E-18-02** **Rev 7**  
Sheet No. 2 of 23  
**As Constructed**





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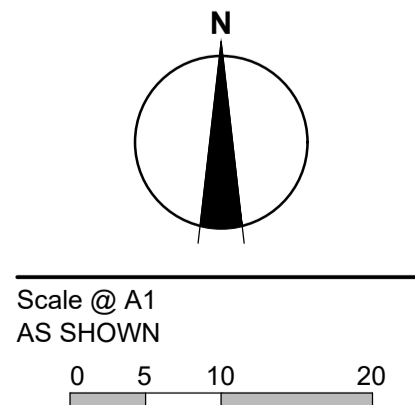
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REVISION	DATE	DES/DFT	APPD
6	18.12.18	HE/HE	LV
5	21.08.18	HE/HE	LV
4	10.04.18	NG/NG	MB
3	04.12.17	BC/NS	MB



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Designed  
 B.Cheung  
 Drawn  
 N.Shrestha  
 Checked  
 L.Vieira  
 Authorised  
 M.Bouwmeester  
 Date  
 June 2016



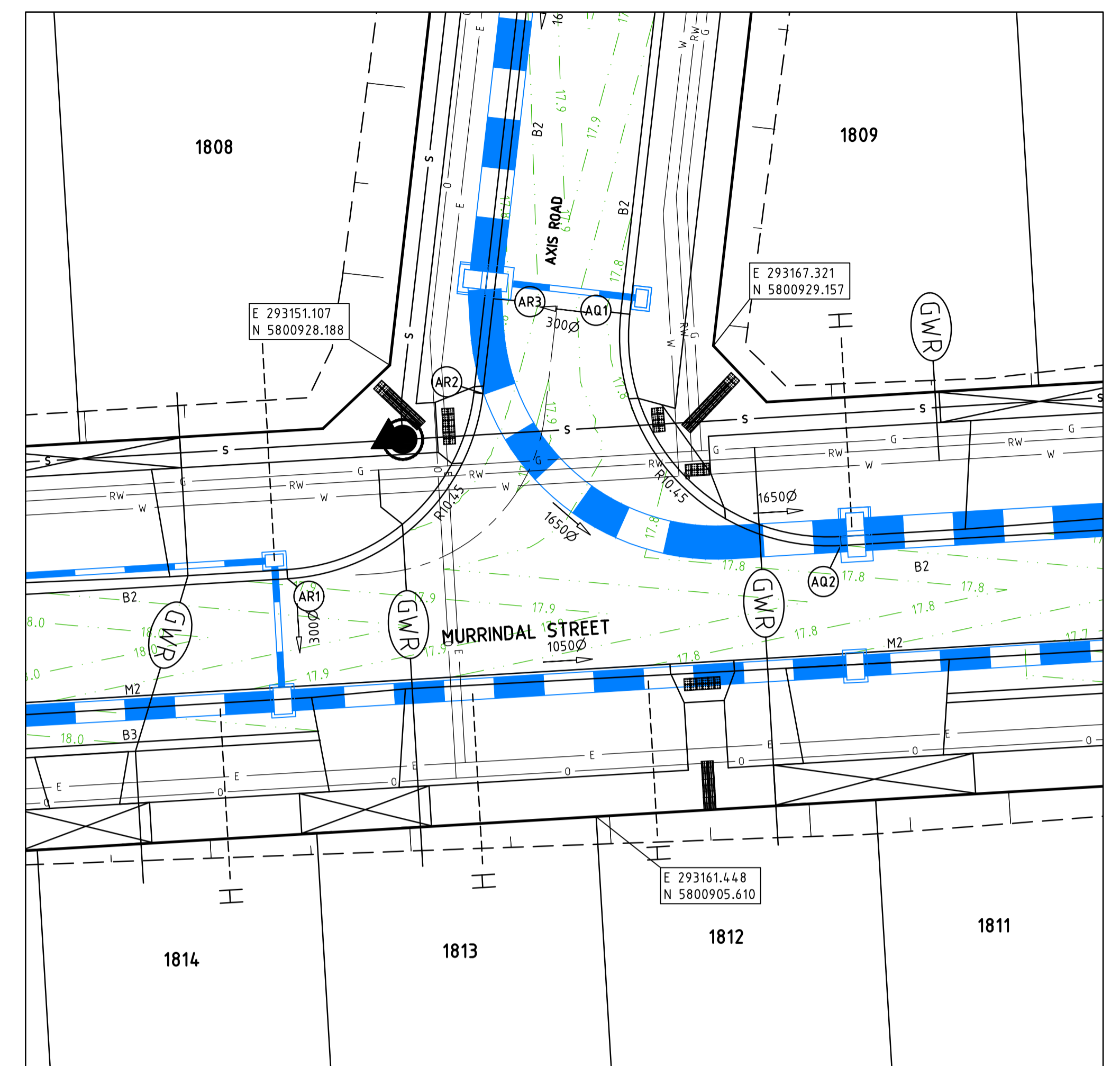
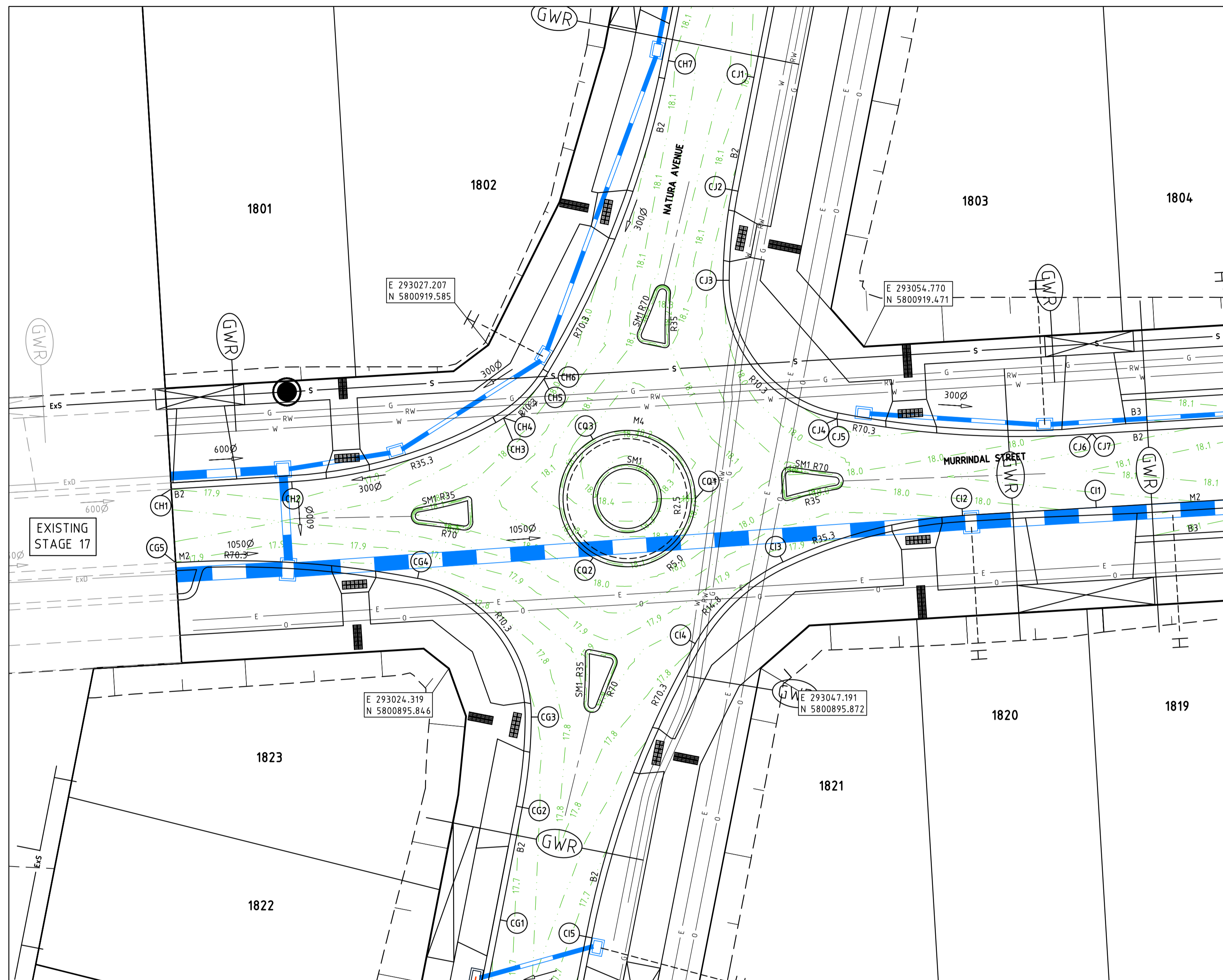
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**River Walk**  
 Stage 18  
 Wyndham City Council  
 Roadworks and Drainage  
 Earthworks Plan  
**Drawing No. 1932E-18-03** **Rev 6**  
 Sheet No. 3 of 23  
**As Constructed**

v:\urban\projects\urban\1932e-riverwalk\1932e-18\dwg\1932e-18-03





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**LEGEND - INTERSECTION PLAN**

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
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- EXISTING HOUSE DRAIN
- RETAINING WALL
- PAVEMENT TREATMENT
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
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 www.1100.com.au

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

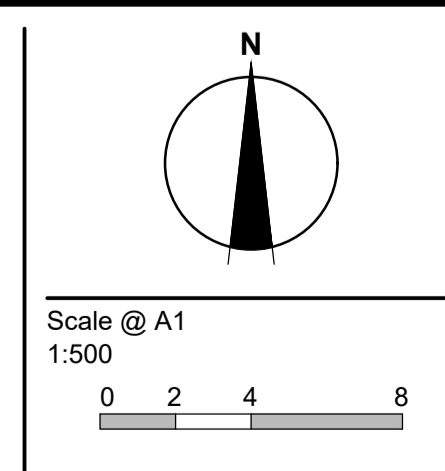
REVISION	DATE	DES/DFT	APPD
5	21.08.18	HE/HE	LV
4	10.04.18	NG/NG	MB
3	04.12.17	BC/NS	MB

AS CONSTRUCTED  
 MURRINDAL STREET AND AXIS ROAD LONG SECTIONS AMENDED TO MATCH DCE  
 ISSUED FOR CONSTRUCTION

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

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 L. Vieyra  
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 June 2016

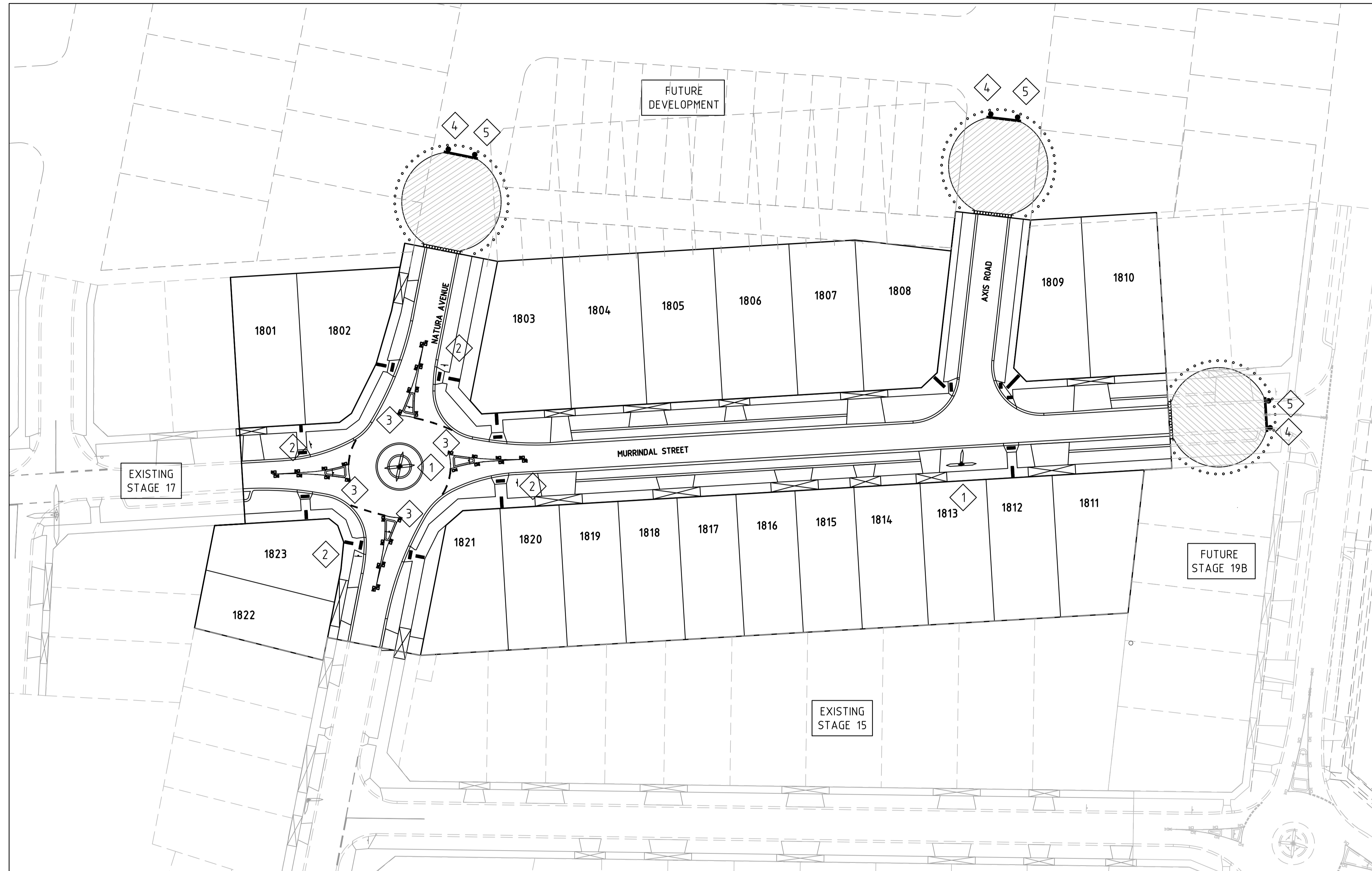


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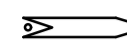



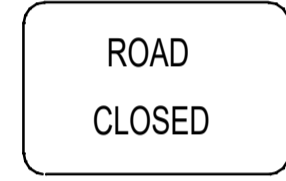
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**River Walk**  
 Stage 18  
 Wyndham City Council  
 Roadworks and Drainage  
 Intersection Detail Plan  
 Drawing No. 1932E-18-04 Rev 5  
 Sheet No. 4 of 23  
 As Constructed





**SIGN SCHEDULE**

SIGN	REF
	1
STREET SIGN	
	2
R1-3	
	3
R2-3L	
	4
D4-5	
	5
G9-20	

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**NOTES**  
 1. RRPMS TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOL 2.  
 2. ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.

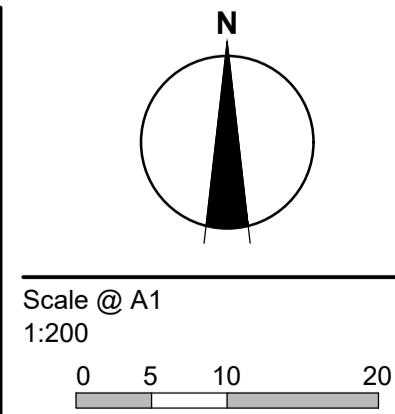
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 Checked  
 L. Vieyra  
 Authorised  
 M. Bouwmeester  
 Date  
 June 2016



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**River Walk**  
 Stage 18  
 Wyndham City Council  
 Roadworks and Drainage  
 Signs & Linemarking Plan

**Drawing No. 1932E-18-05**  
 Sheet No. 5 of 23

**Rev 4**

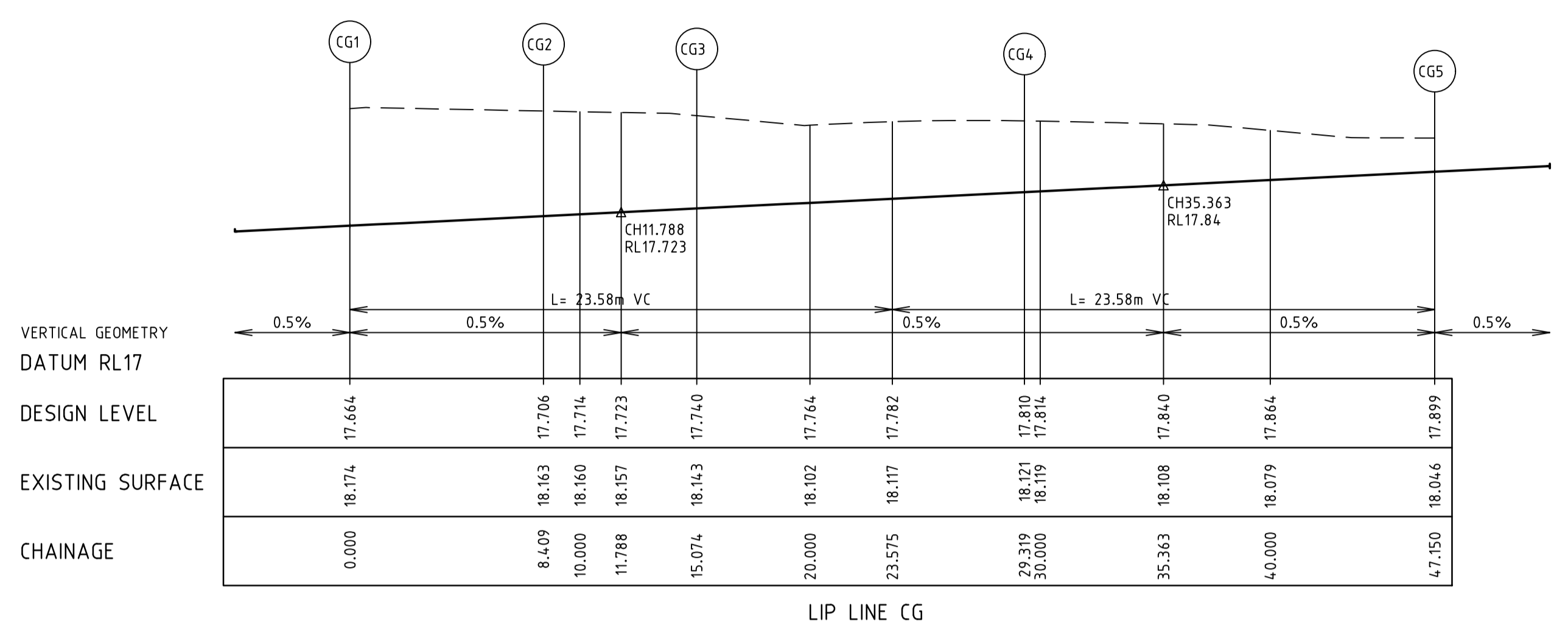
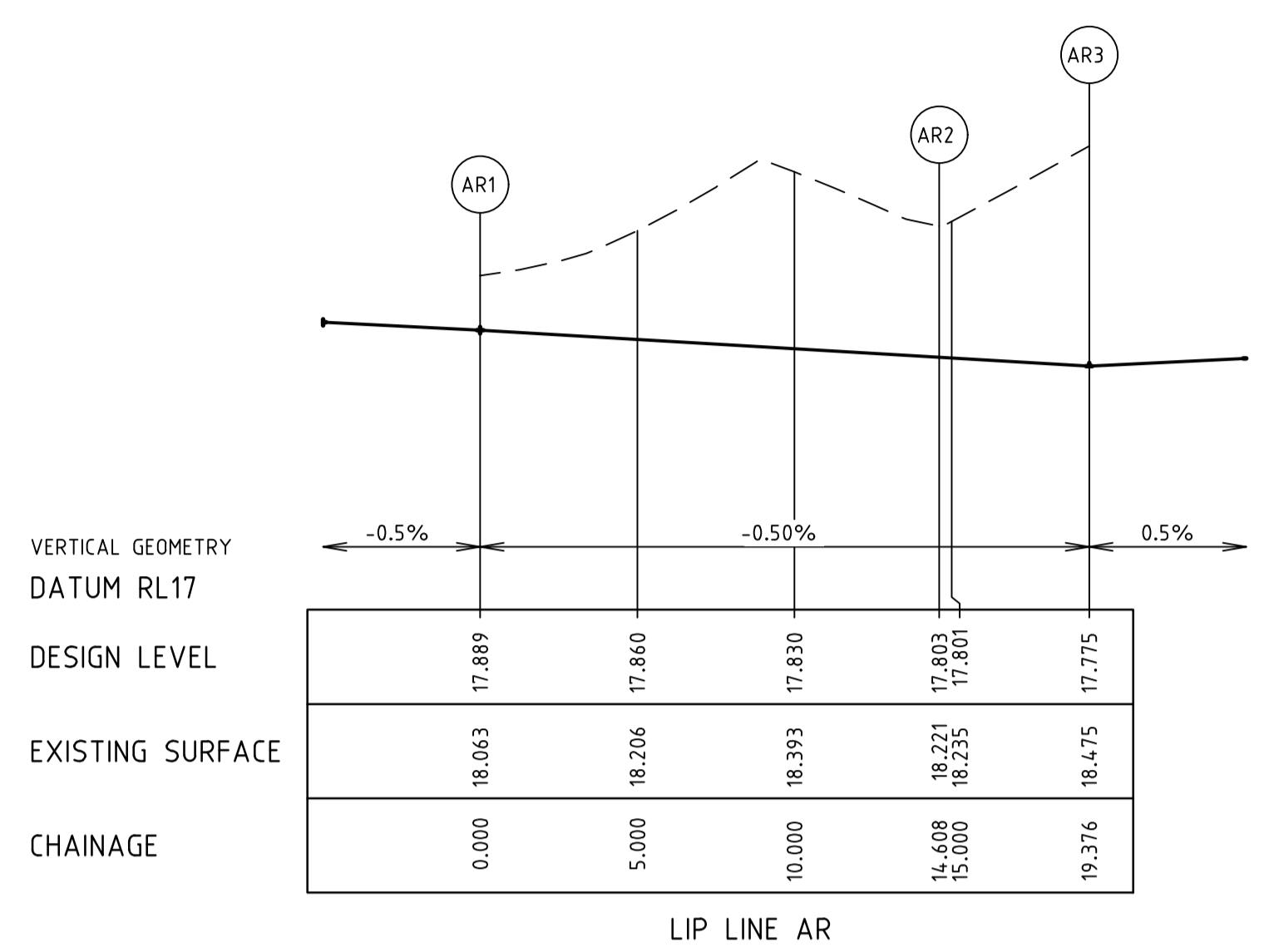
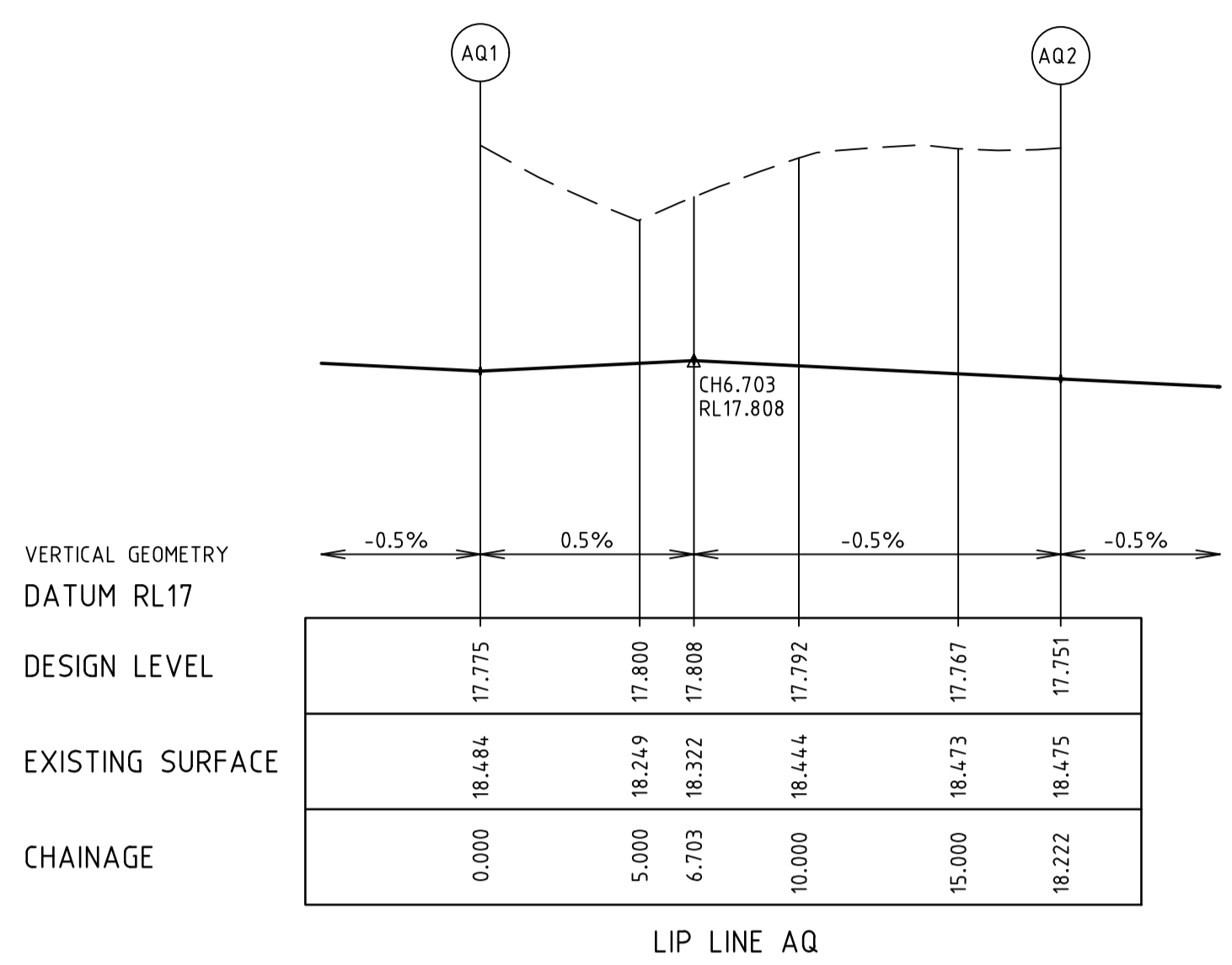
**As Constructed**

v:\urban\projects\urban\1932e-riverwalk\1932e-18\sign\1932e-18-05

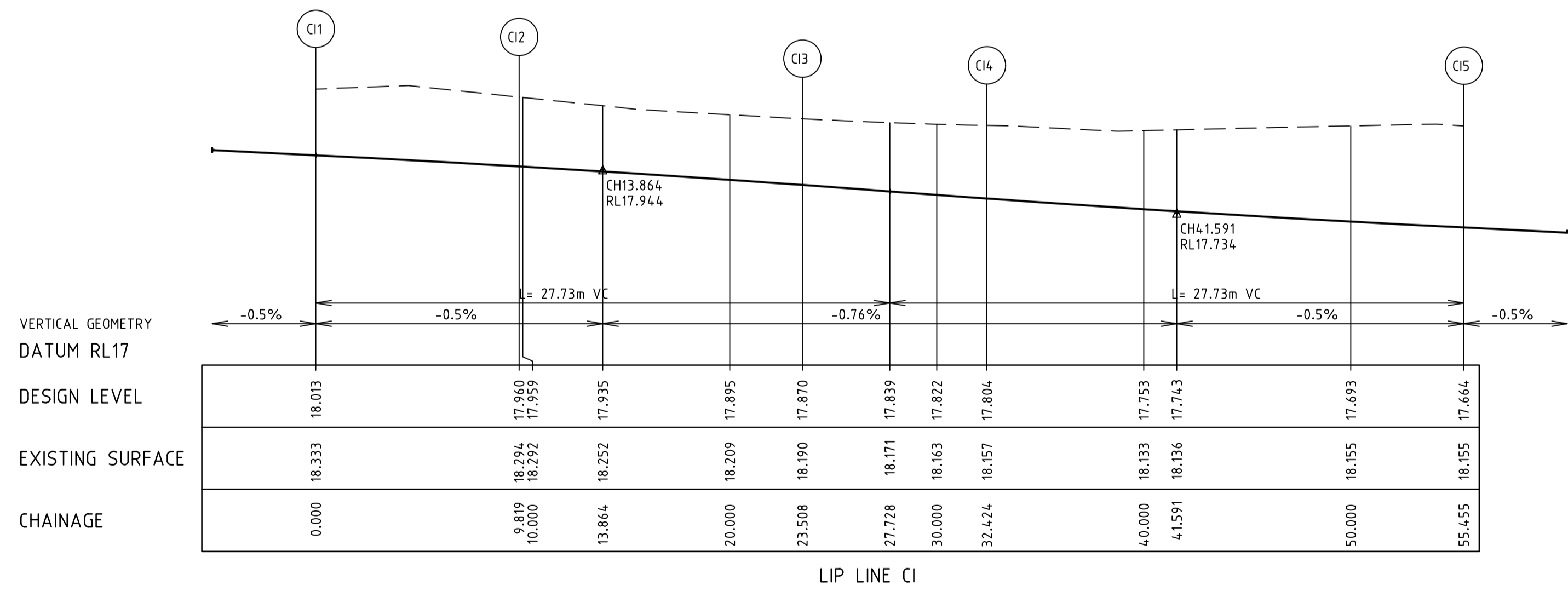
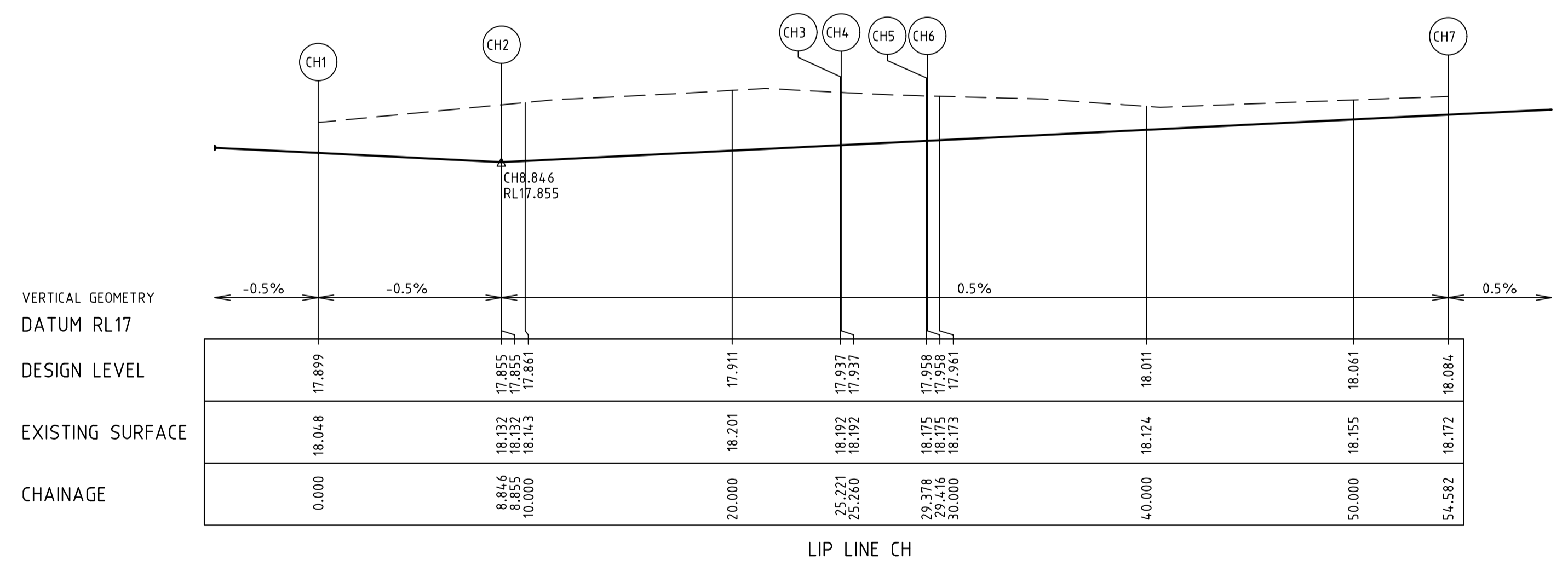
REVISION	DATE	DES/DFT	APPD
4 AS CONSTRUCTED	21.08.18	HE/HE	LV
3 ISSUED FOR CONSTRUCTION	04.12.17	BC/NS	MB



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



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**NOTES**  
 1. CHAINAGES REFER TO LIP OF KERB/EDGE OF CONCRETE.  
 2. REFER TO SHEET No. 08 FOR SETOUT INFORMATION.

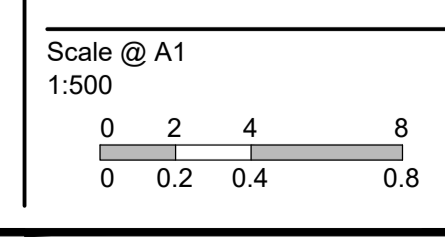
v:\urban\projects\\_urban\1932e-riverwalk\1932e-18\dwg\1932e-18-06

5	AS CONSTRUCTED	21.08.18	HE/HE	LV
4	LIP LINE AQ & AR AMENDED	10.04.18	NG/NG	MB
3	ISSUED FOR CONSTRUCTION	04.12.17	BC/NS	MB
REVISION		DATE	DES/DFT	APPD



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 Checked  
 L. Vieyra  
 Authorised  
 M. Bouwmeester  
 Date  
 June 2016



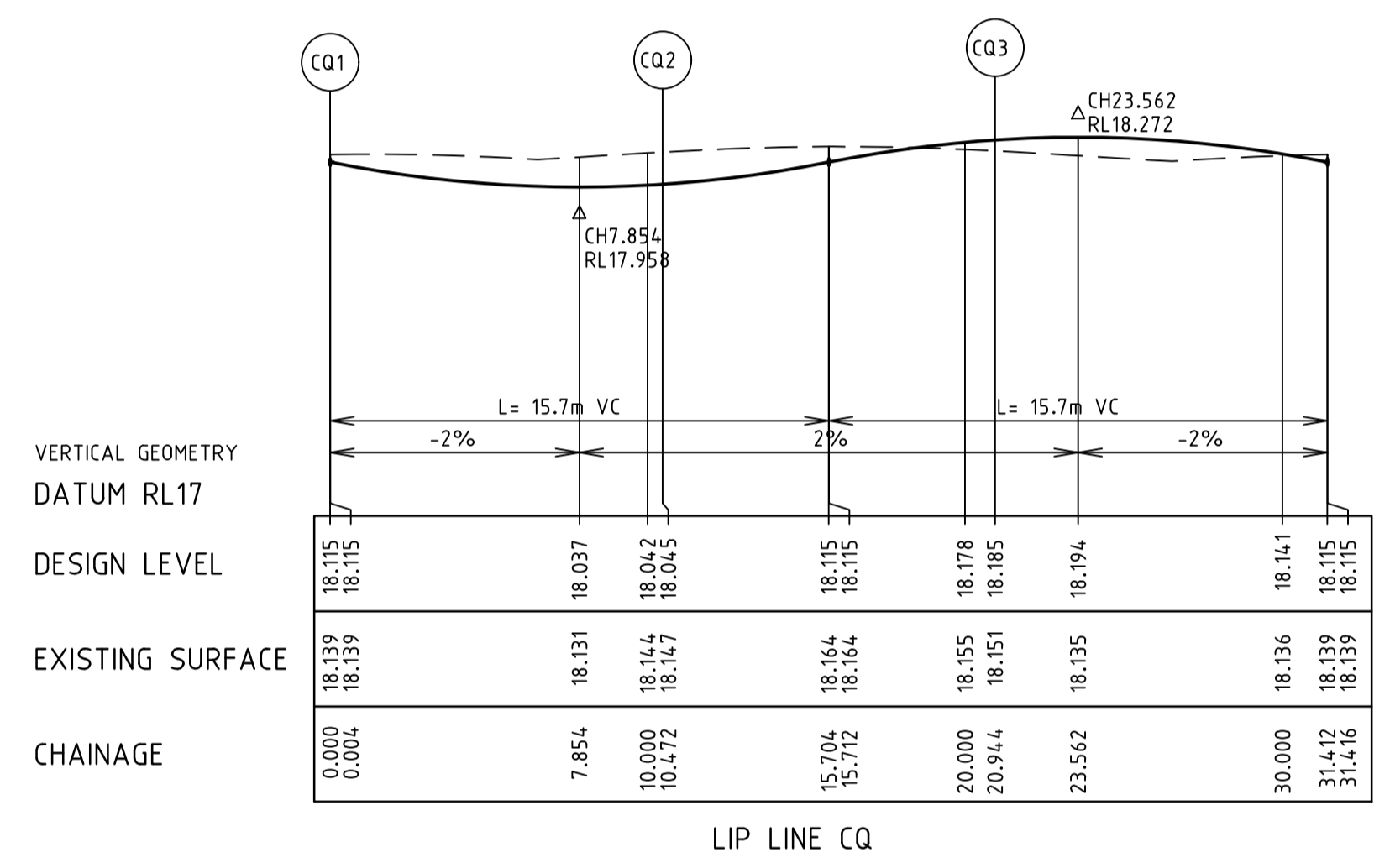
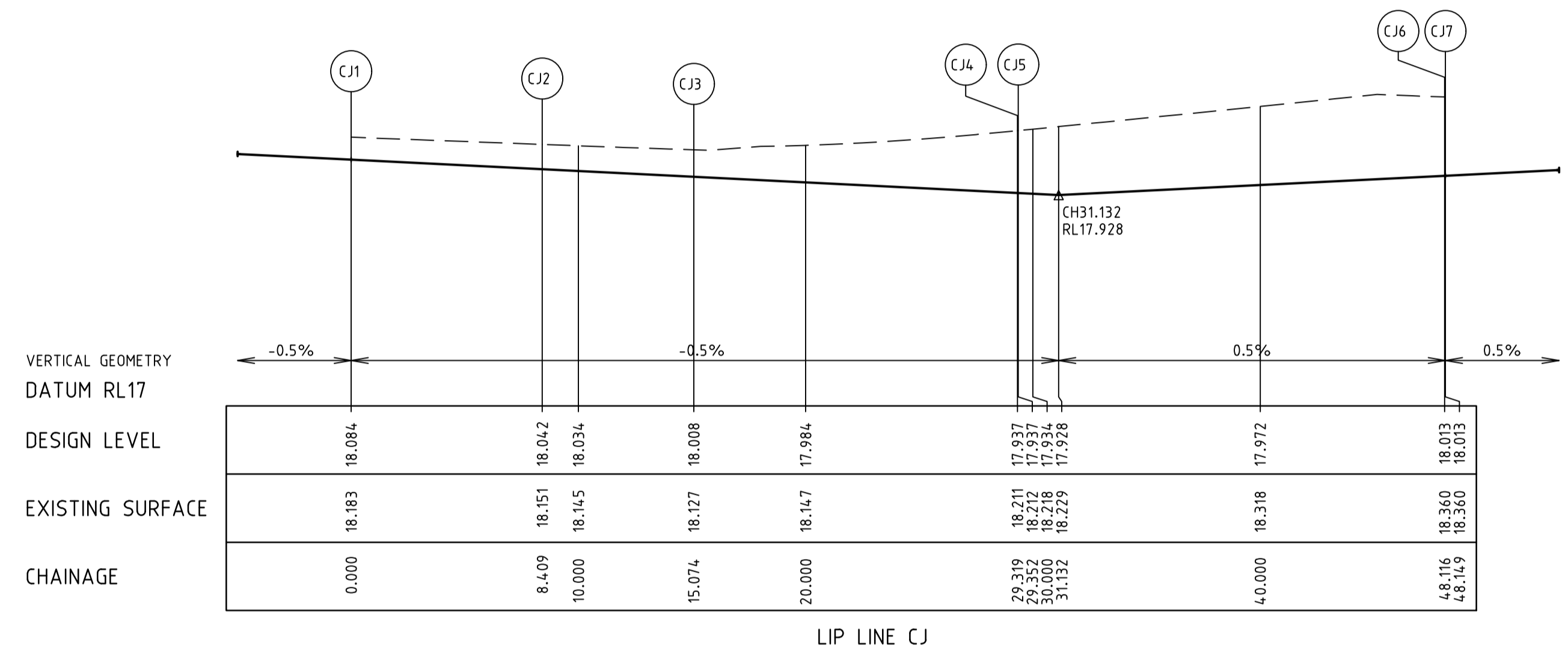
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**River Walk**  
 Stage 18  
 Wyndham City Council  
 Roadworks and Drainage  
 Lip Profiles - 1  
 Drawing No. 1932E-18-06 Rev 5  
 Sheet No. 6 of 23  
 As Constructed



—	EXISTING SURFACE
—	DESIGN LINE
—	FUTURE DESIGN LINE



**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.  
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- NOTES**
- CHAINAGES REFER TO LIP OF KERB/EDGE OF CONCRETE.
  - REFER TO SHEET No. 08 FOR SETOUT INFORMATION.

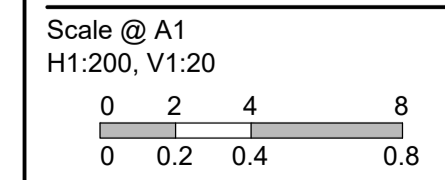
v:\urban\projects\\_urban1932e-ninewalk1932e-18\dwg\1932e-18-07

4	AS CONSTRUCTED	21.08.18	HE/HE	LV
3	ISSUED FOR CONSTRUCTION	04.12.17	BC/NS	MB
REVISION	DATE	DES/DFT	APPD	

Principal  
 Development Victoria  
 710 Collins Street  
 Docklands, VIC - 3008

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B.Cheung  
 Drawn  
N.Shrestha  
 Checked  
L.Vieyra  
 Authorised  
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 Date  
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**River Walk**  
 Stage 18  
 Wyndham City Council  
 Roadworks and Drainage  
 Lip Profiles - 2

Drawing No. 1932E-18-07  
 Sheet No. 7 of 23

Rev 4

As Constructed



**NATURA DESIGN LINE**

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	0.000	292935.810	5800597.929	18.370	IP	30°29'56.97"		
2	74.673	292970.398	5800656.450	18.634	TC	30°29'56.97"	13.045	-63.500
3	189.024	293010.447	5800770.614	18.461	IP	18°43'43.75"	8.483	-63.500
4	305.358	293032.794	5800884.787	18.399	CT	11°04'27.89"		
5	381.966	293047.520	5800960.031	18.195	IP	11°04'25.70"	9.793	-25.000
6	407.381	293042.483	5800985.081	18.322	IP	348°37'49.56"	41.015	200.000
7	500.252	293043.102	5801078.330	18.785	IP	0°22'48.83"	10.455	-10.000
8	569.088	292983.123	5801113.632	19.122	IP	300°28'48.07"		

**MURRINDAL DESIGN LINE**

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	213.738	293004.128	5800906.327	17.989	IP	86°34'48.92"		
2	446.866	293236.841	5800920.233	17.644	IP	86°34'48.92"		

**AXIS DESIGN LINE**

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	0.000	293157.716	5800915.505	17.922	IP	6°29'17.89"		
2	46.165	293162.933	5800961.374	18.034	IP	6°29'17.89"		

**ALIGNMENT AQ**

Point no	Easting	Northing	RL
AQ1	293162.674	5800930.776	17.775
AQ2	293173.680	5800919.163	17.751

Curve no	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
AQ1 - AQ2	99.908	10.450	18.222	3.726	2.749	4.413	3.587	4.555	17.796

**ALIGNMENT AR**

Point no	Easting	Northing	RL
AR1	293146.016	5800917.510	17.889
AR2	293155.776	5800926.761	17.803
AR3	293156.315	5800931.499	17.775

Curve no	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
AR1 - AR2	80.092	10.450	14.608	2.450	1.819	3.578	3.146	3.652	17.846

**ALIGNMENT CG**

POINT NO	EASTING	NORTHING	RL
CG1	293028.094	5800877.437	17.664
CG2	293029.710	5800885.689	17.706
CG3	293030.367	5800892.312	17.740
CG4	293022.035	5800902.468	17.810
CG5	293004.290	5800903.632	17.899
CG6	293004.289	5800903.632	17.899

Curve no	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
CG2 - CG3	10.817	35.300	6.665	0.157	0.118	1.666	1.662	1.666	17.723
CG3 - CG4	79.240	10.300	14.245	2.366	1.756	3.491	3.078	3.561	17.775
CG4 - CG5	14.533	70.300	17.831	0.565	0.423	4.455	4.437	4.458	17.855

**ALIGNMENT CH**

POINT NO	EASTING	NORTHING	RL
CH1	293003.967	5800909.022	17.899
CH2	293012.806	5800909.550	17.855
CH3	293028.342	5800914.212	17.937
CH4	293028.375	5800914.231	17.937
CH5	293031.297	5800917.073	17.958
CH6	293031.317	5800917.105	17.958
CH7	293040.422	5800940.422	18.084

Curve no	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
CH2 - CH3	26.565	35.300	16.367	0.944	0.707	4.082	4.028	4.092	17.896
CH4 - CH5	28.430	8.300	4.118	0.254	0.190	1.027	1.011	1.030	17.947
CH6 - CH7	20.511	70.299	25.166	1.123	0.842	6.283	6.233	6.291	18.021

**ALIGNMENT CI**

POINT NO	EASTING	NORTHING	RL
CI1	293071.793	5800907.665	18.013
CI2	293061.991	5800907.080	17.960
CI3	293048.823	5800903.667	17.870
CI4	293042.390	5800897.689	17.804
CI5	293034.375	5800876.207	17.664

Curve no	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
CI2 - CI3	22.219	35.300	13.689	0.662	0.496	3.417	3.385	3.422	17.917
CI3 - CI4	34.516	14.800	8.916	0.666	0.499	2.221	2.170	2.229	17.837
CI4 - CI5	18.771	70.299	23.031	0.941	0.705	5.751	5.713	5.758	17.728

**ALIGNMENT CJ**

POINT NO	EASTING	NORTHING	RL
CJ1	293046.703	5800939.193	18.084
CJ2	293045.088	5800930.940	18.042
CJ3	293044.431	5800924.318	18.008
CJ4	293052.762	5800914.162	17.937
CJ5	293052.795	5800914.155	17.937
CJ6	293071.471	5800913.055	18.013
CJ7	293071.504	5800913.058	18.013

Curve no	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
CJ2 - CJ3	10.817	35.300	6.665	0.157	0.118	1.666	1.662	1.666	18.025
CJ3 - CJ4	79.240	10.300	14.245	2.366	1.756	3.491	3.078	3.561	17.973
CJ5 - CJ6	15.293	70.299	18.764	0.625	0.469	4.687	4.667	4.691	17.966

**ALIGNMENT CQ**

POINT NO	EASTING	NORTHING	RL
CQ1	293042.399	5800908.315	18.115
CQ2	293034.899	5800903.985	18.045
CQ3	293034.899	5800912.645	18.185

Curve no	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
CQ1 - CQ2	120.000	5.000	10.472	2.500	1.830	2.500	1.830	2.618	18.045
CQ2 - CQ3	120.000	5.000	10.472	2.500	1.830	2.500	1.830	2.618	18.115
CQ3 - CQ1	120.000	5.000	10.472	2.500	1.830	2.500	1.830	2.618	18.185

**ALIGNMENT CR**

POINT NO	EASTING	NORTHING	RL
CR1	293036.623	5800896.111	17.918
CR2	293036.191	5800896.936	17.923
CR3	293034.679	5800897.244	17.921
CR4	293034.319	5800896.942	17.918
CR5	293034.223	5800893.288	17.900
CR6	293034.691	5800892.655	17.897
CR7	293035.383	5800893.030	17.901

Curve no	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
CR1 - CR2	101.787	0.600	1.066	0.222	0.163	0.258	0.208	0.266	17.921
CR3 - CR4	102.981	0.300	0.539	0.113	0.083	0.130	0.104	0.135	17.919
CR4 - CR5	5.986	35.000	3.657	0.048	0.036	0.914	0.913	0.914	17.909
CR5 - CR6	81.968	0.600	0.858	0.147	0.109	0.210	0.183	0.215	17.898
CR6 - CR7	81.968	0.600	0.858	0.147	0.109	0.210	0.183	0.215	17.899
CR7 - CR1	2.718	70.000	3.321	0.020	0.015	0.830	0.830	0.830	17.910

**ALIGNMENT CS**

POINT NO	EASTING	NORTHING	RL
CS1	293025.390	5800906.012	18.007
CS2	293022.096	5800906.441	17.993
CS3	293021.560	5800907.017	17.998
CS4	293022.056	5800907.629	18.004
CS5	293025.617	5800908.450	18.023
CS6	293025.999	5800908.178	18.020
CS7	293026.081	5800906.636	18.012

Curve no	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
CS1 - CS2	2.719	70.000	3.322	0.020	0.015	0.830	0.830	0.830	17.999
CS2 - CS3	81.968	0.600	0.858	0.147	0.109	0.210	0.183	0.215	17.995
CS3 - CS4	81.968	0.600	0.858	0.147	0.109	0.210	0.183	0.215	18.001
CS4 - CS5	5.986	35.000	3.656	0.048	0.036	0.914	0.913	0.914	18.014
CS5 - CS6	102.952	0.300	0.539	0.113	0.083	0.130	0.104	0.135	18.021
CS7 - CS1	101.816	0.600	1.066	0.222	0.163	0.258	0.208	0.267	18.010

**ALIGNMENT CT**

POINT NO	EASTING	NORTHING	RL
CT1	293038.175	5800920.519	18.121
CT2	293039.415	5800923.599	18.164
CT3	293040.104	5800923.974	18.172
CT4	293040.574	5800923.342	18.162
CT5	293040.478	5800919.688	18.107
CT6	293040.119	5800919.386	18.105
CT7	293038.606	5800919.694	18.112

Curve no	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
CT1 - CT2	2.718	70.000	3.321	0.020	0.015	0.830	0.830	0.830	18.143
CT2 - CT3	81.968	0.600	0.858	0.147	0.109	0.210	0.183	0.215	18.170
CT3 - CT4	81.968	0.600	0.858	0.147	0.109	0.210	0.183	0.215	18.169
CT4 - CT5	5.986	35.000	3.657	0.048	0.036	0.914	0.913	0.914	18.135
CT5 - CT6	102.982	0.300	0.539	0.113	0.083	0.130	0.104	0.135	18.105
CT7 - CT1	101.787	0.600	1.066	0.222	0.163	0.258	0.208	0.266	18.116

**ALIGNMENT CU**

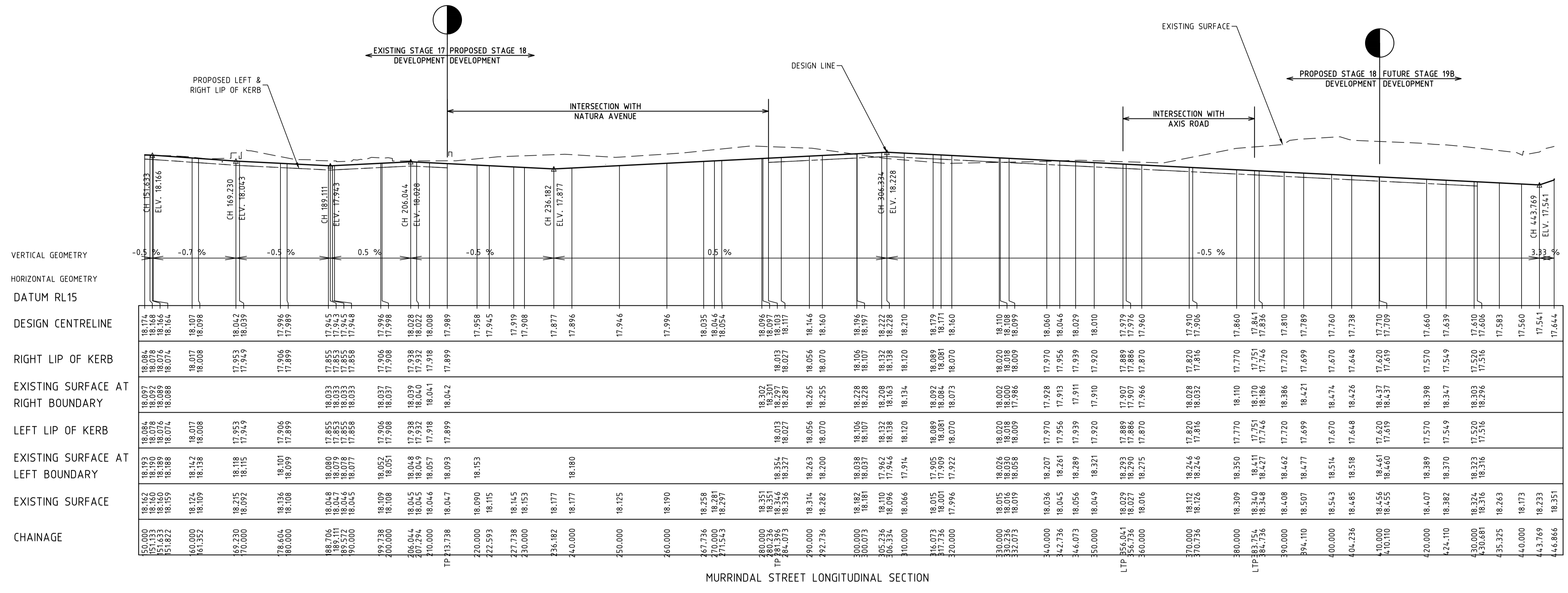
POINT NO	EASTING	NORTHING	RL
CU1	293049.408	5800910.618	18.058
CU2	293052.701	5800910.189	18.034
CU3	293053.237	5800909.612	18.012
CU4	293052.742	5800909.001	17.992
CU5	293049.180	5800908.180	18.006
CU6	293048.798	5800908.452	18.009
CU7	293048.718	5800909.993	18.045

Curve no	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
CU1 - CU2	2.718	7							



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



MURRINDAL STREET LONGITUDINAL SECTION

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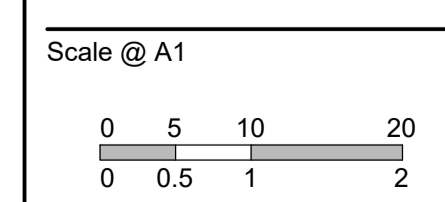
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5	AS CONSTRUCTED	21.08.18	HE/HE	LV
4	MURRINDAL STREET AND AXIS ROAD LONG SECTIONS AMENDED TO MATCH DCE	10.04.18	NG/NG	MB
3	ISSUED FOR CONSTRUCTION	04.12.17	BC/NS	MB
	REVISION	DATE	DES/DFT	APPD

**DEVELOPMENT VICTORIA**  
 Principal  
 Development Victoria  
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 Docklands, VIC - 3008

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**River Walk**  
 Stage 18  
 Wyndham City Council  
 Roadworks and Drainage  
 Longitudinal Sections - 1  
 Drawing No. 1932E-18-09  
 Sheet No. 9 of 23  
 Rev 5  
 As Constructed



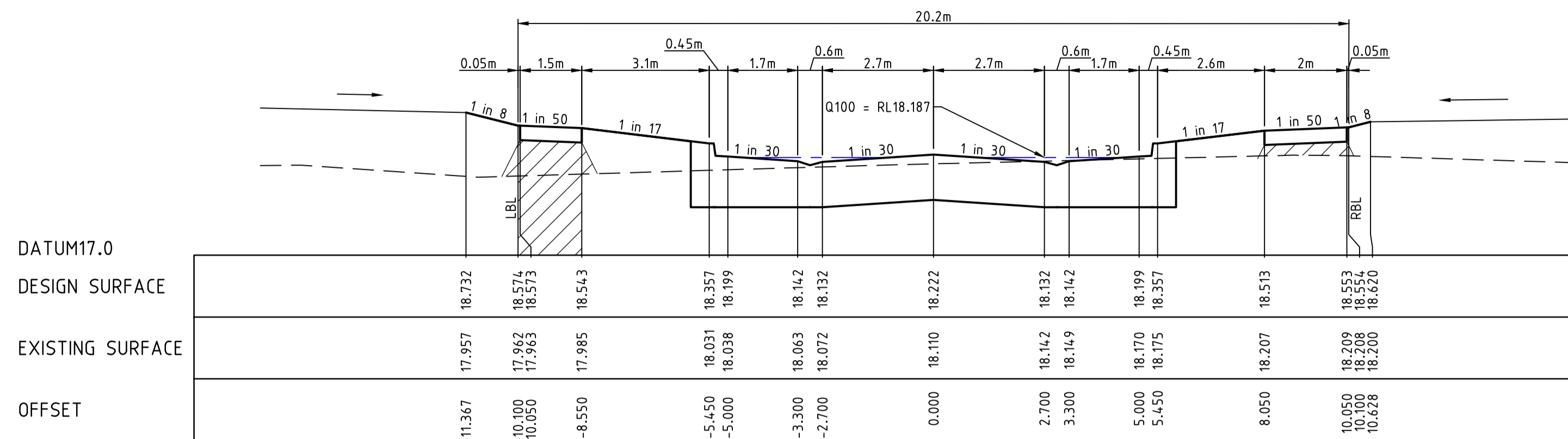




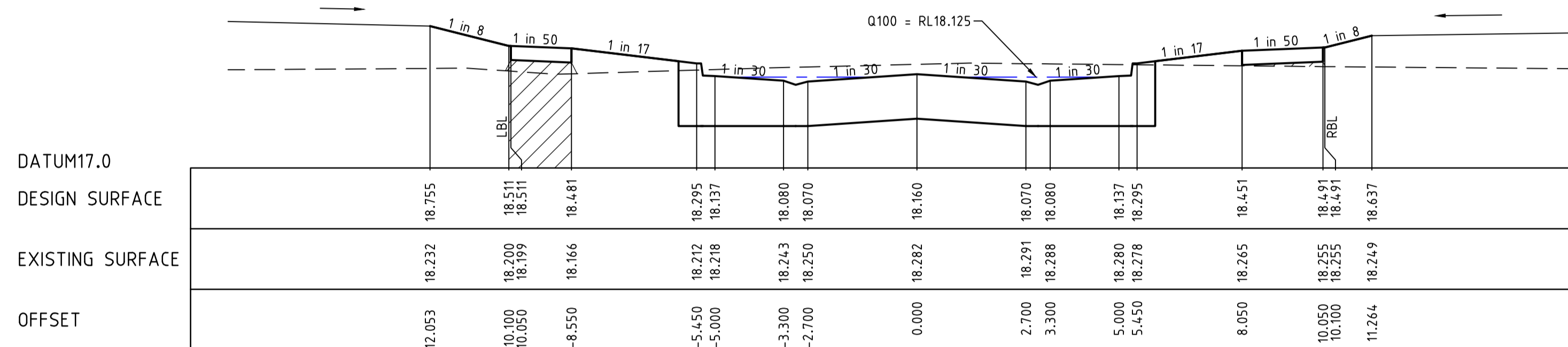




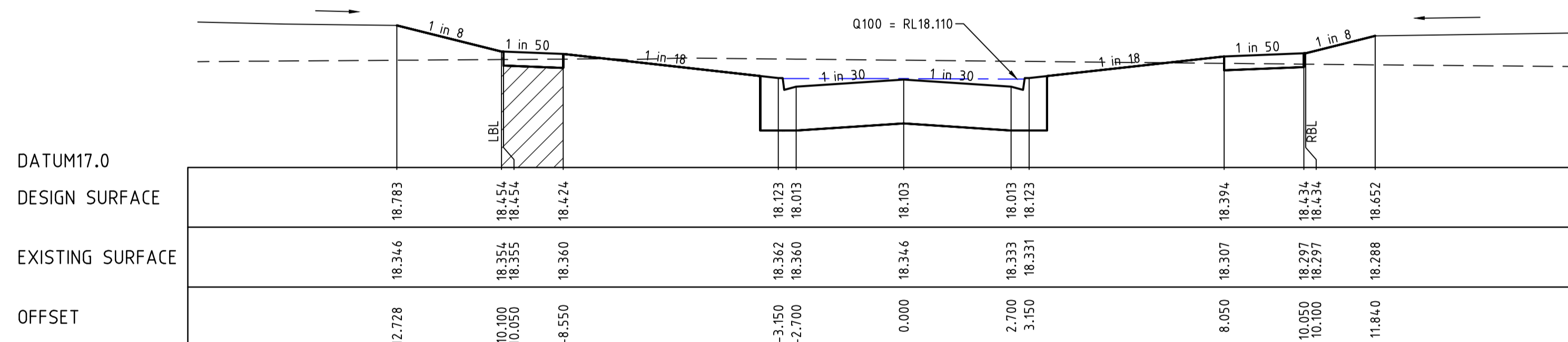
LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	Q100 GAP FLOW
	CLASS 3 FCR COMPACTED TO MIN 98% DENSITY RATIO (MODIFIED) AS1289.5.2.1 REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE OR CONSTRUCTED SEWER TRENCH



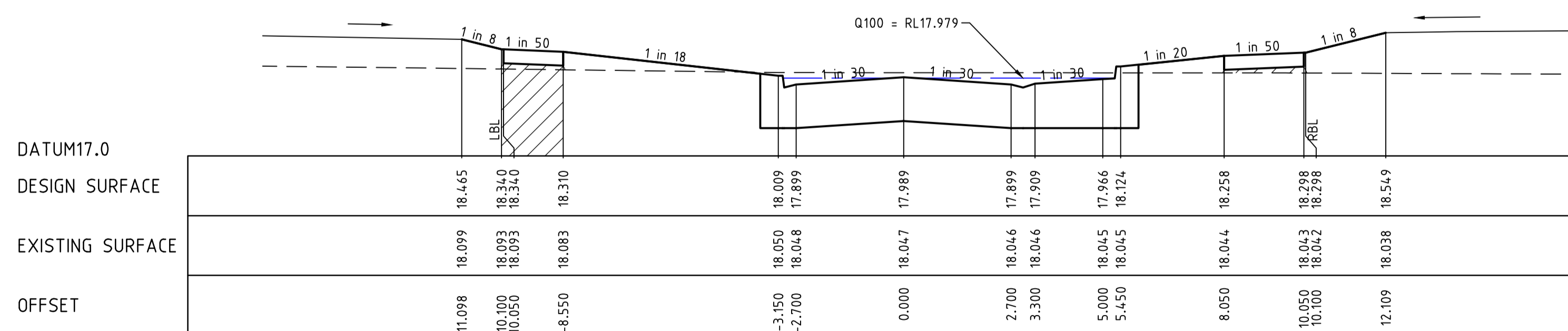
CH 305.236



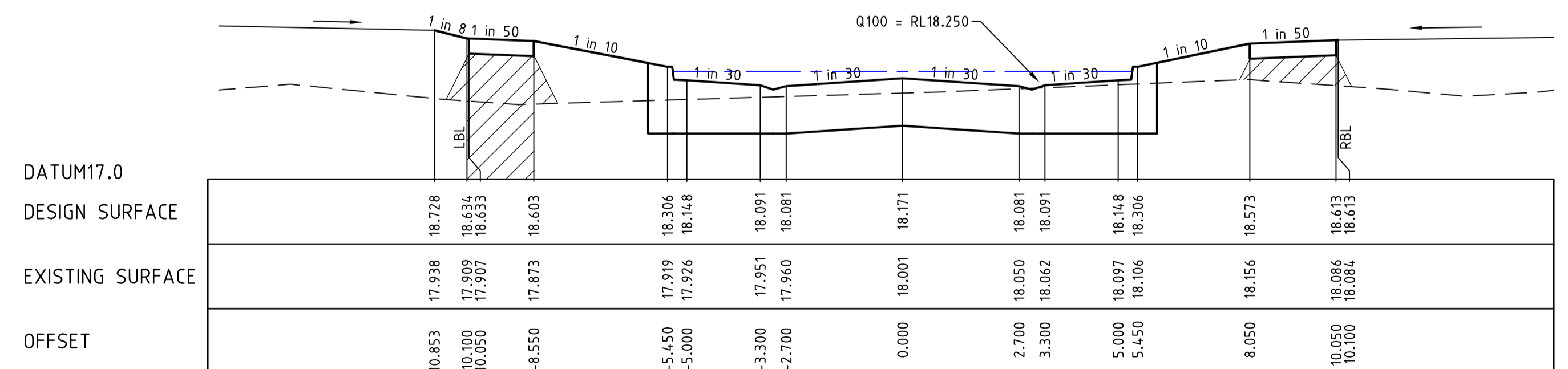
CH 292.736



TPCH 281.396



TPCH 213.738



CH 317.736

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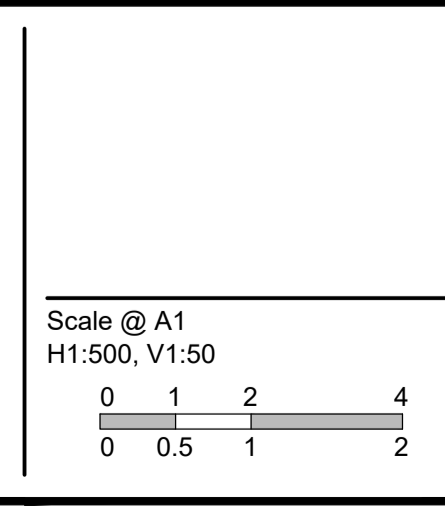
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REVISION	DATE	DES/DFT	APPD
5	21.08.18	HE/HE	LV
4	10.04.18	NG/NG	MB
3	04.12.17	BC/NS	MB

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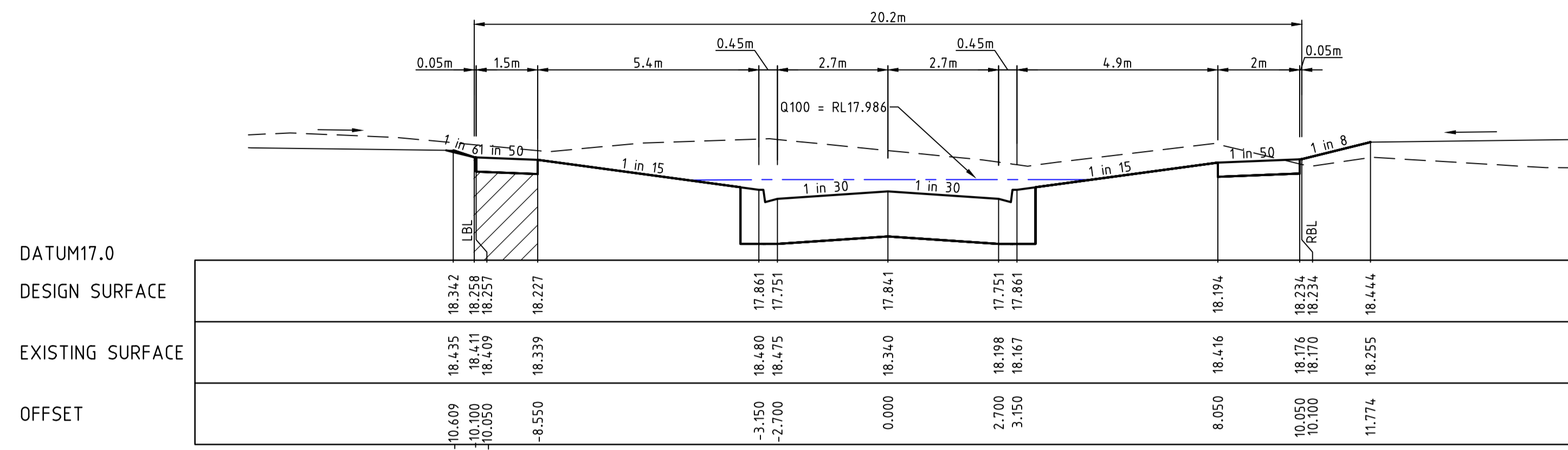
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**River Walk**  
 Stage 18  
 Wyndham City Council  
 Roadworks and Drainage  
 Cross Sections : Murrindal Street  
 Ch 213.738 - Ch 317.736  
**Drawing No. 1932E-18-12**      **Rev 5**  
 Sheet No. 12 of 23  
**As Constructed**

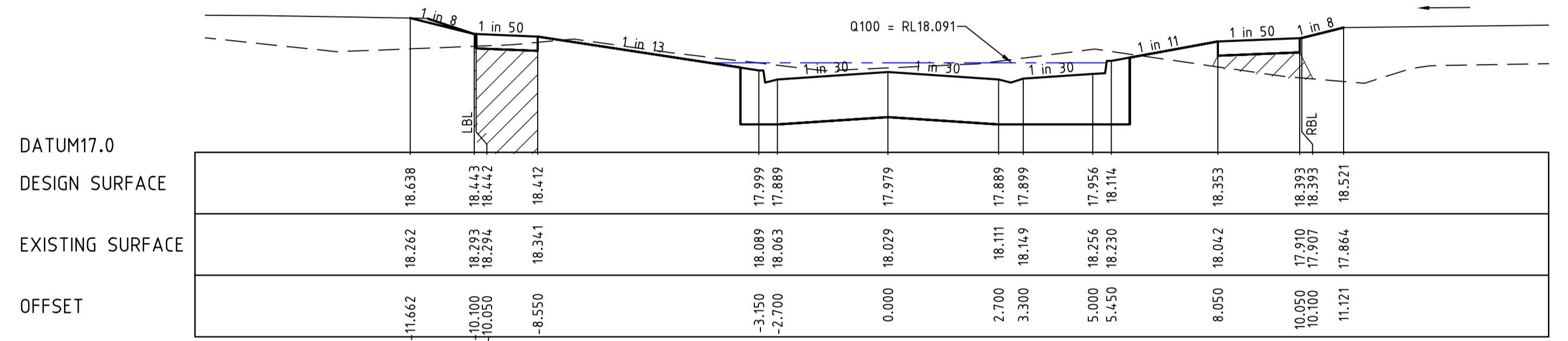


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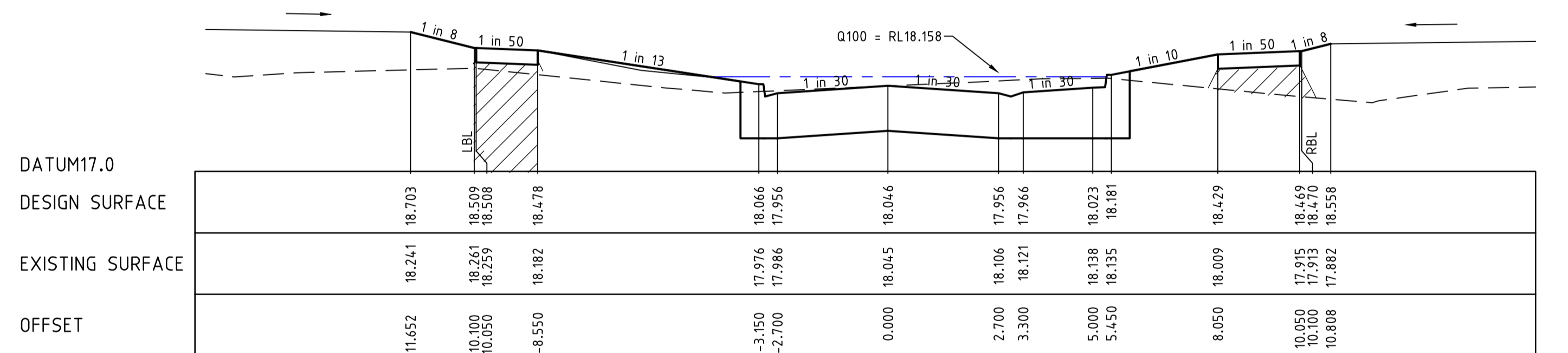
LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	Q100 GAP FLOW
	CLASS 3 FCR COMPACTED TO MIN 98% DENSITY RATIO (MODIFIED) AS1289.5.2.1 REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE OR CONSTRUCTED SEWER TRENCH



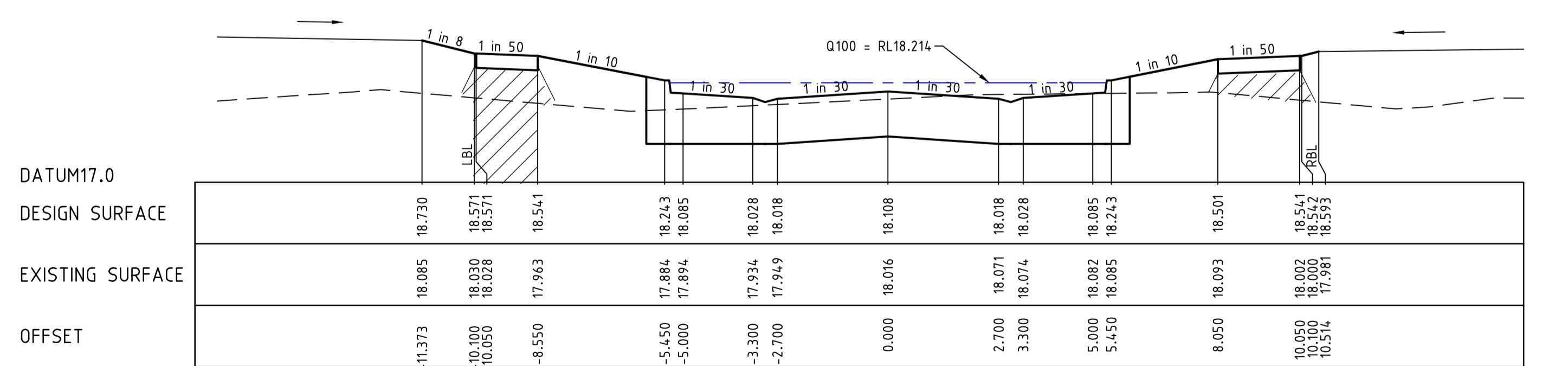
LTPCH 303.754



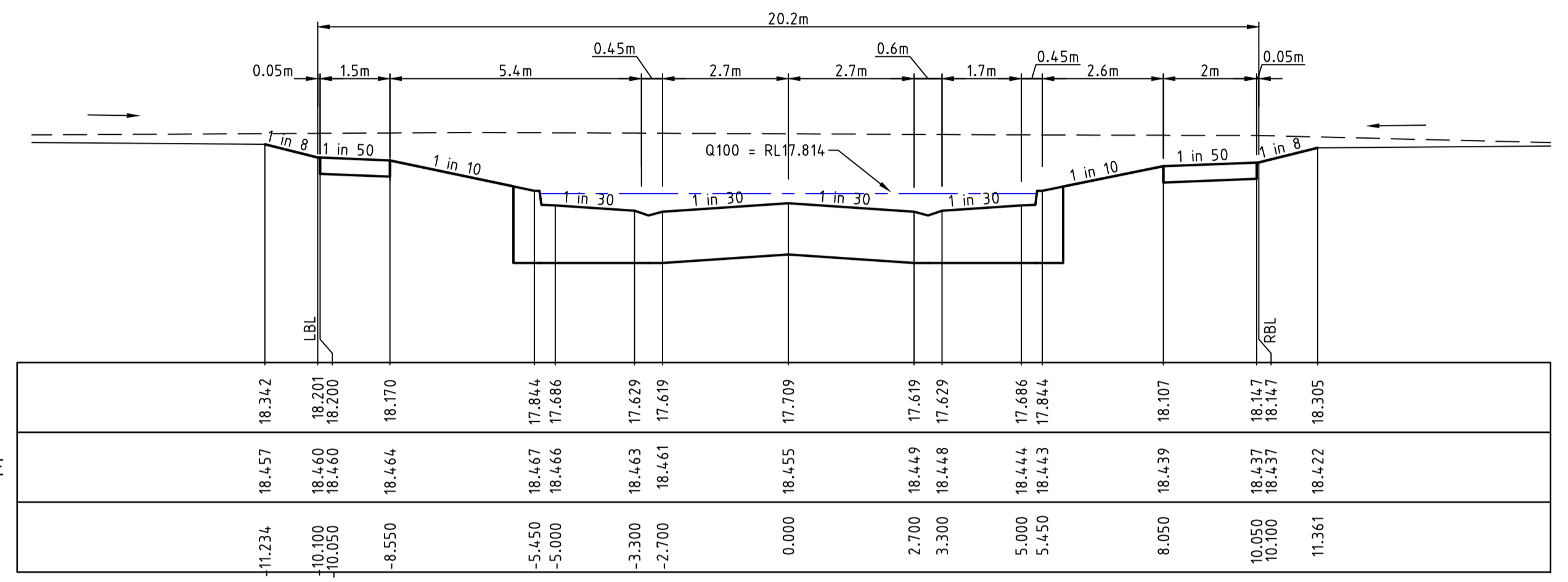
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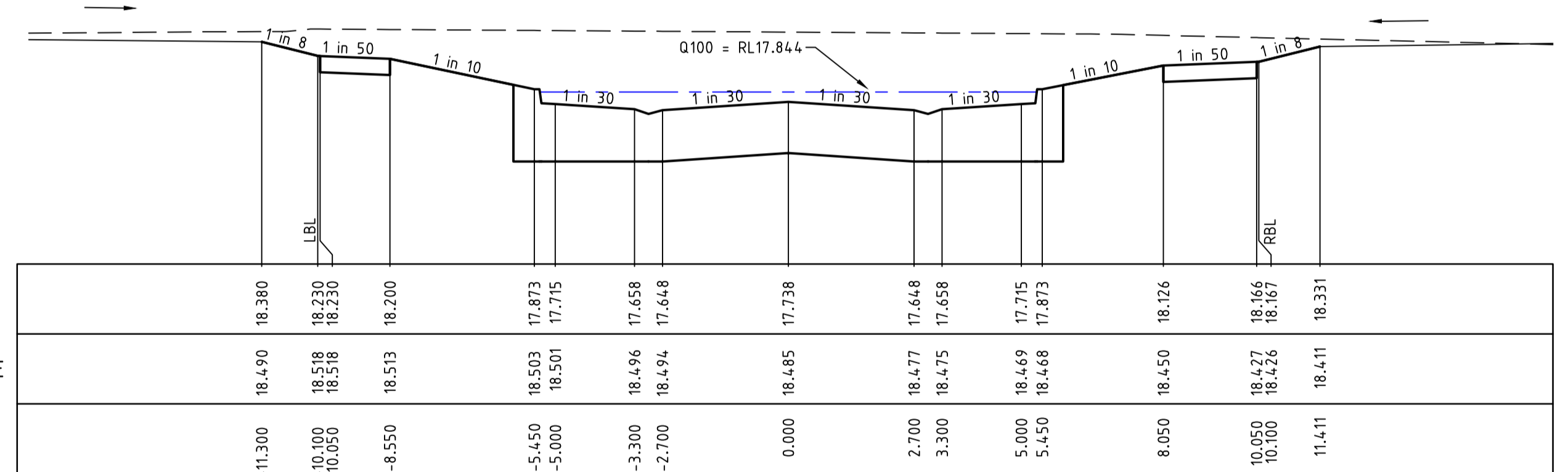
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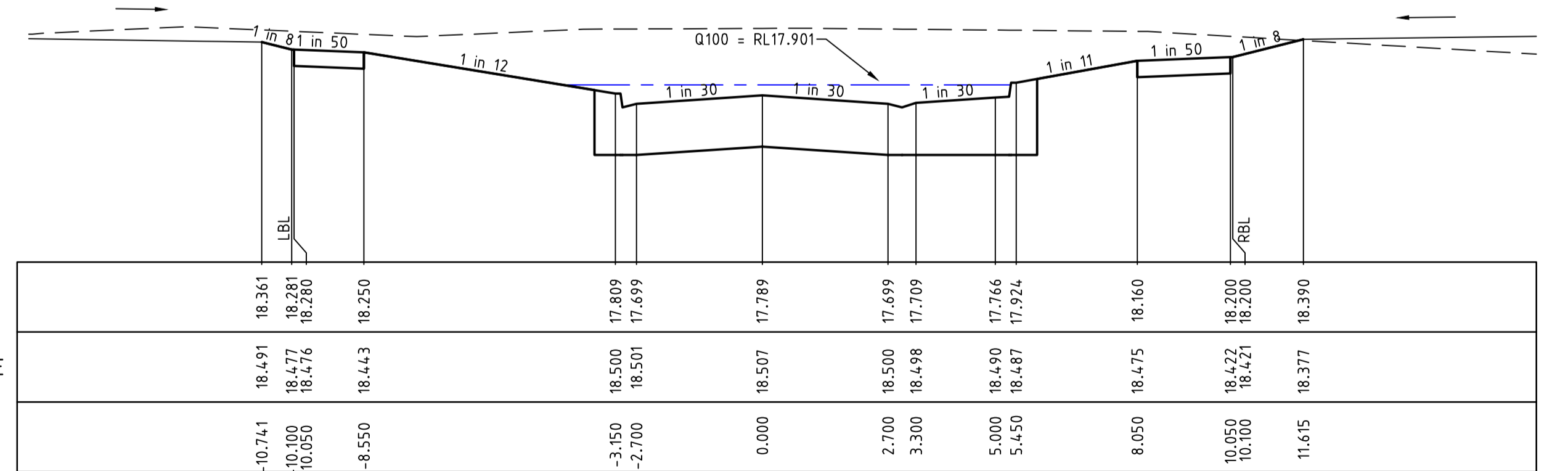
CH 330.236



CH 410.110



CH 404.236



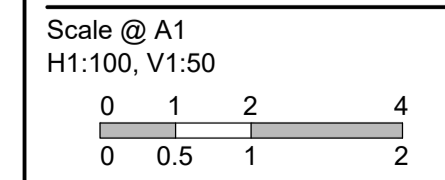
CH 394.110

REVISION	DATE	DES/DFT	APPD
5 AS CONSTRUCTED	21.08.18	HE/HE	LV
4 MURRINDAL STREET AND AXIS ROAD CROSS SECTIONS AMENDED TO MATCH DCE	10.04.18	NG/NG	MB
3 ISSUED FOR CONSTRUCTION	04.12.17	BC/NS	MB



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Designed  
B.Cheung  
 Drawn  
N.Shrestha  
 Checked  
L.Vieyra  
 Authorised  
M.Bouwmeester  
 Date  
June 2016



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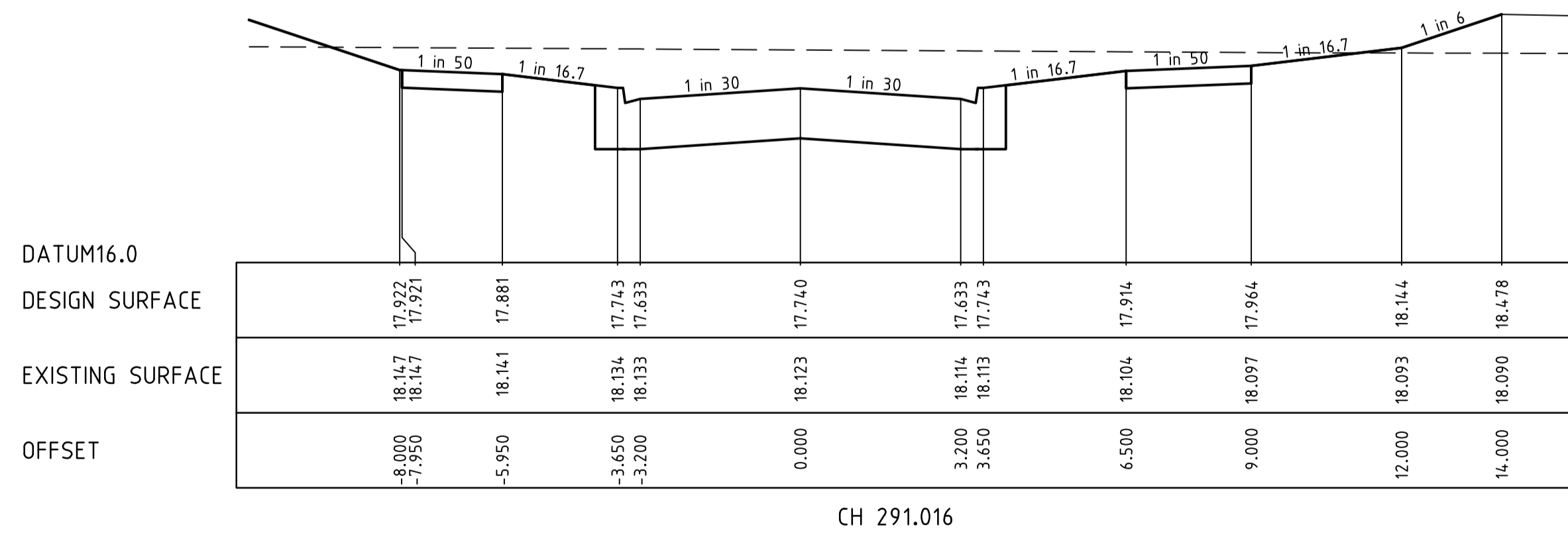
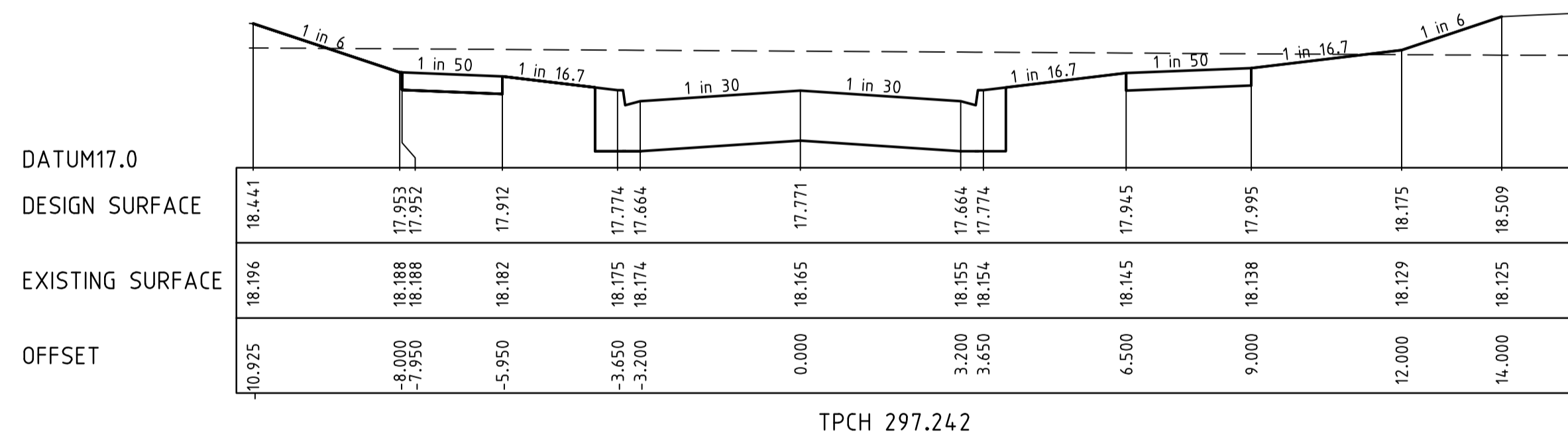
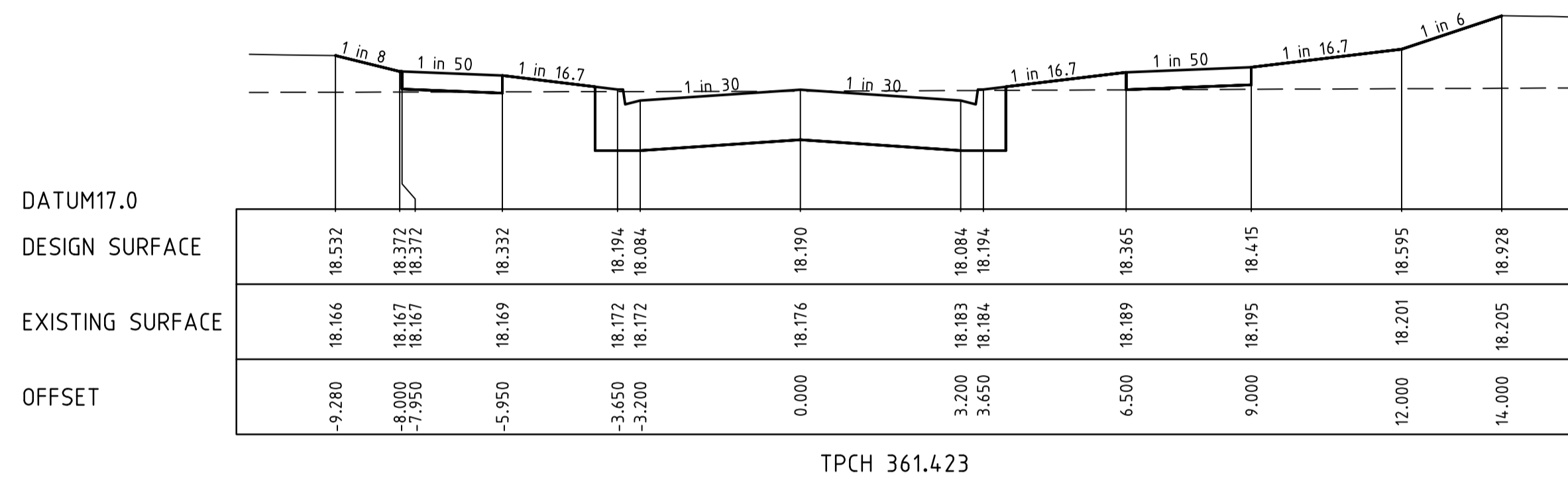
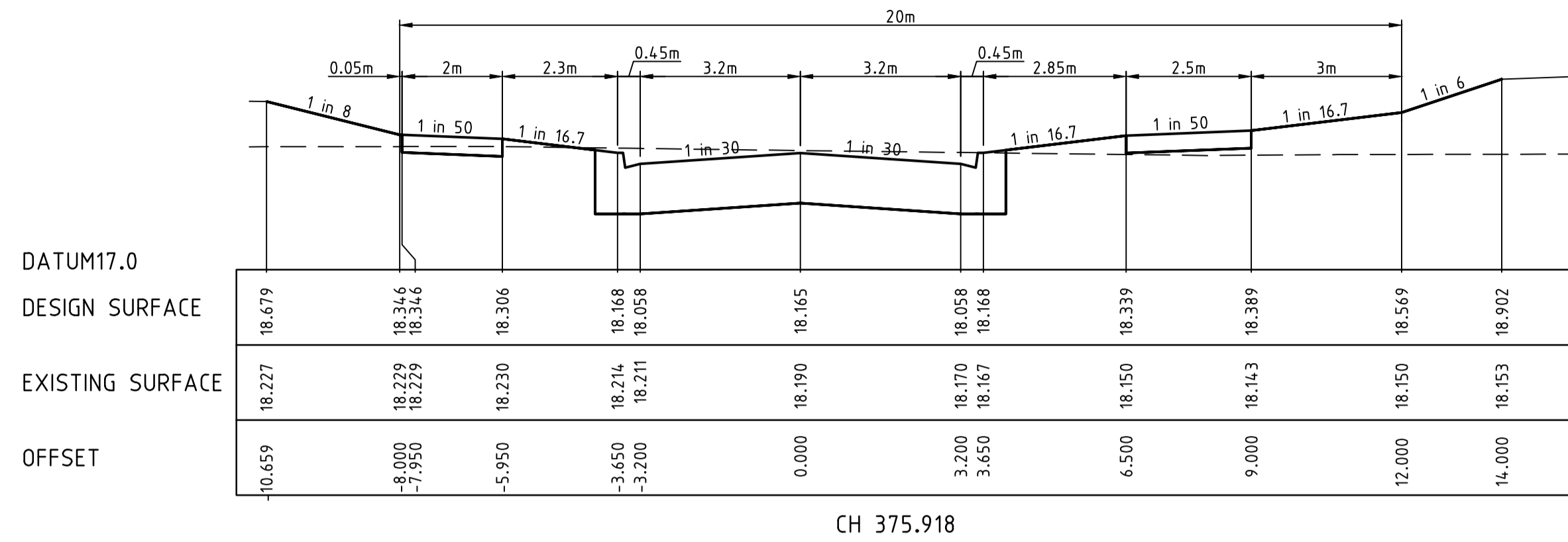
**River Walk**  
 Stage 18  
 Wyndham City Council  
 Roadworks and Drainage  
 Cross Sections : Murrindal Street  
 Ch 330.236 - Ch 410.110  
**Drawing No. 1932E-18-13**  
 Sheet No. 13 of 23

As Constructed

Rev 5



LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	Q100 GAP FLOW
	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



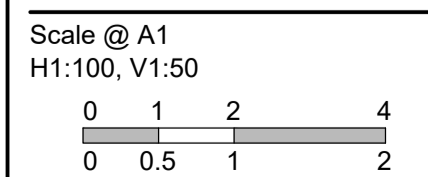
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4	AS CONSTRUCTED	21.08.18	HE/HE	LV
3	ISSUED FOR CONSTRUCTION	04.12.17	BC/NS	MB
REVISION		DATE	DES/DFT	APPD



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**River Walk**  
 Stage 18  
 Wyndham City Council  
 Roadworks and Drainage  
 Cross Sections : Natura Avenue

Drawing No. 1932E-18-14  
 Sheet No. 14 of 23

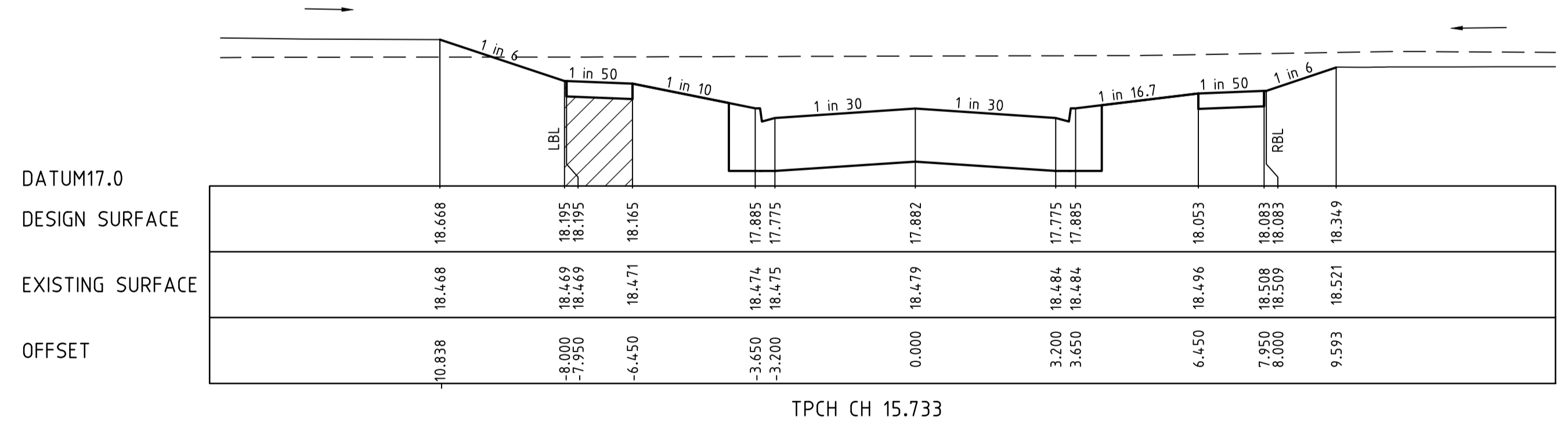
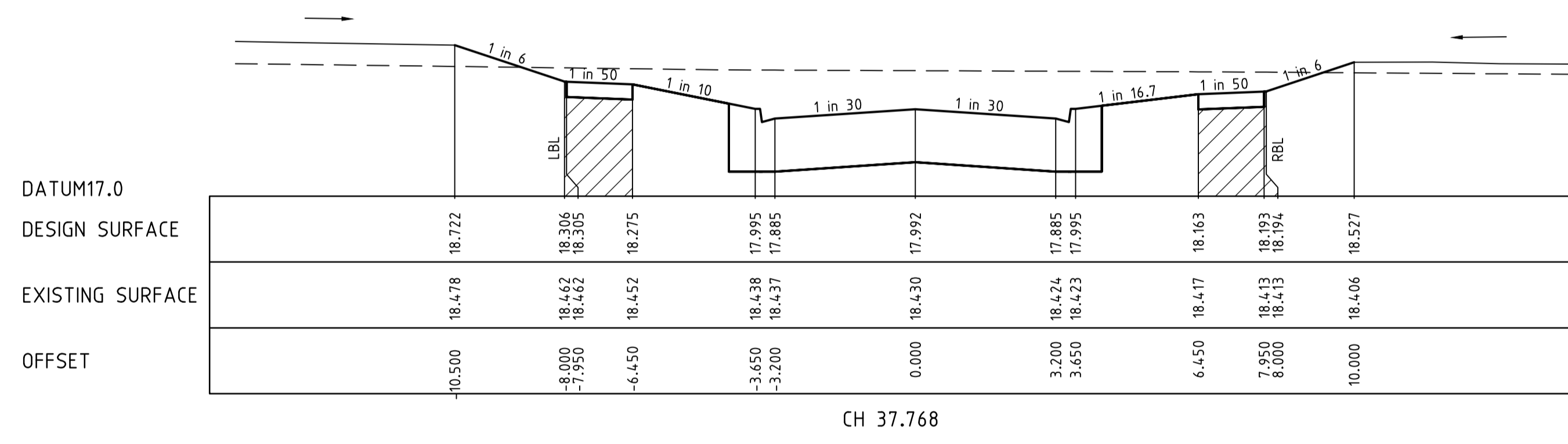
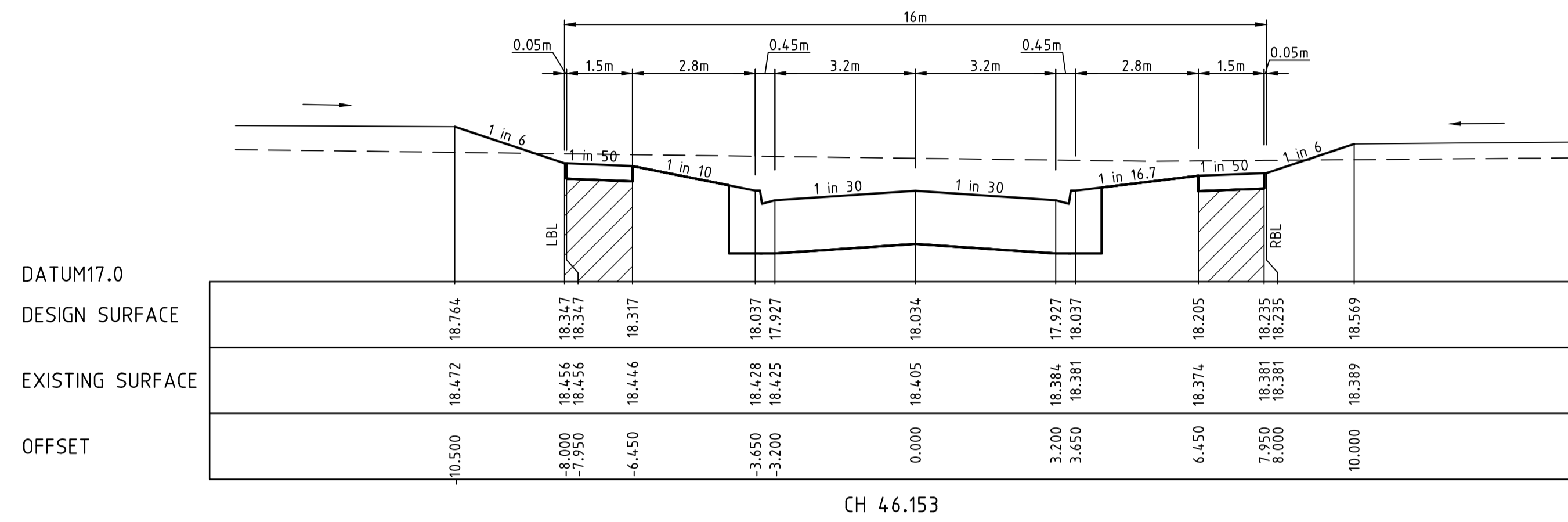
Rev 4

As Constructed

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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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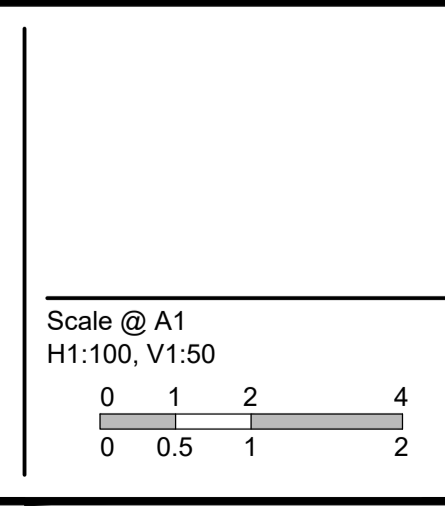
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REVISION	DATE	DES/DFT	APPD
5	21.08.18	HE/HE	LV
4	10.04.18	NG/NG	MB
3	04.12.17	BC/NS	MB



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**River Walk**  
Stage 18  
Wyndham City Council  
Roadworks and Drainage  
Cross Sections : Axis Road

Drawing No. 1932E-18-15      Rev 5  
Sheet No. 15 of 23

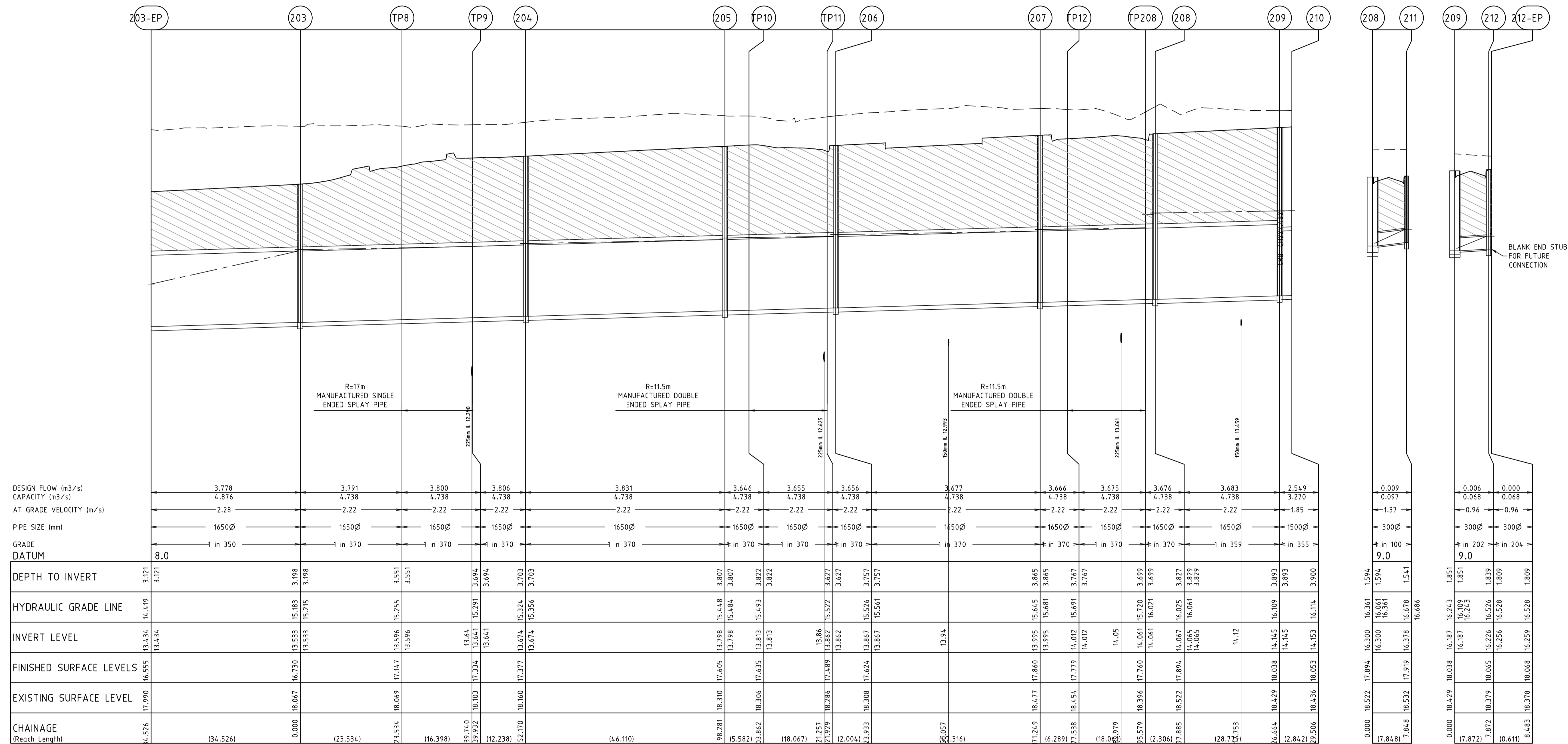
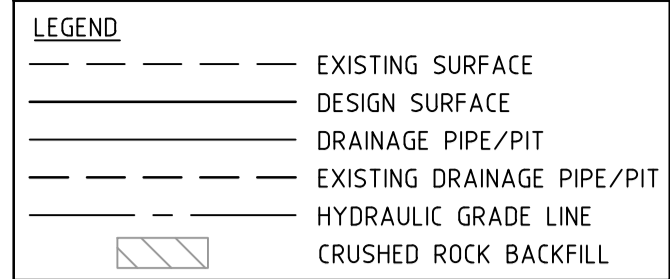
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**CRUSHED ROCK BACKFILL**  
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



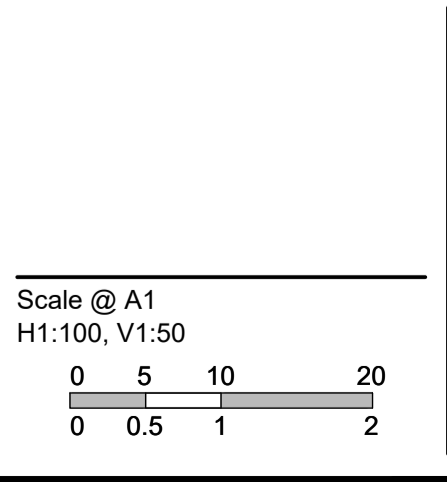
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REVISION	DATE	DES/DFT	APPD
5 AS CONSTRUCTED	21.08.18	HE/HE	LV
4 FSL AMENDED TO MATCH DCE	10.04.18	NG/NG	MB
3 ISSUED FOR CONSTRUCTION	04.12.17	BC/NS	MB

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

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**River Walk**  
 Stage 18  
 Wyndham City Council  
 Roadworks and Drainage  
 Drainage Longitudinal Sections - 1  
 Drawing No. 1932E-18-16  
 Sheet No. 16 of 23  
 Rev 5  
 As Constructed



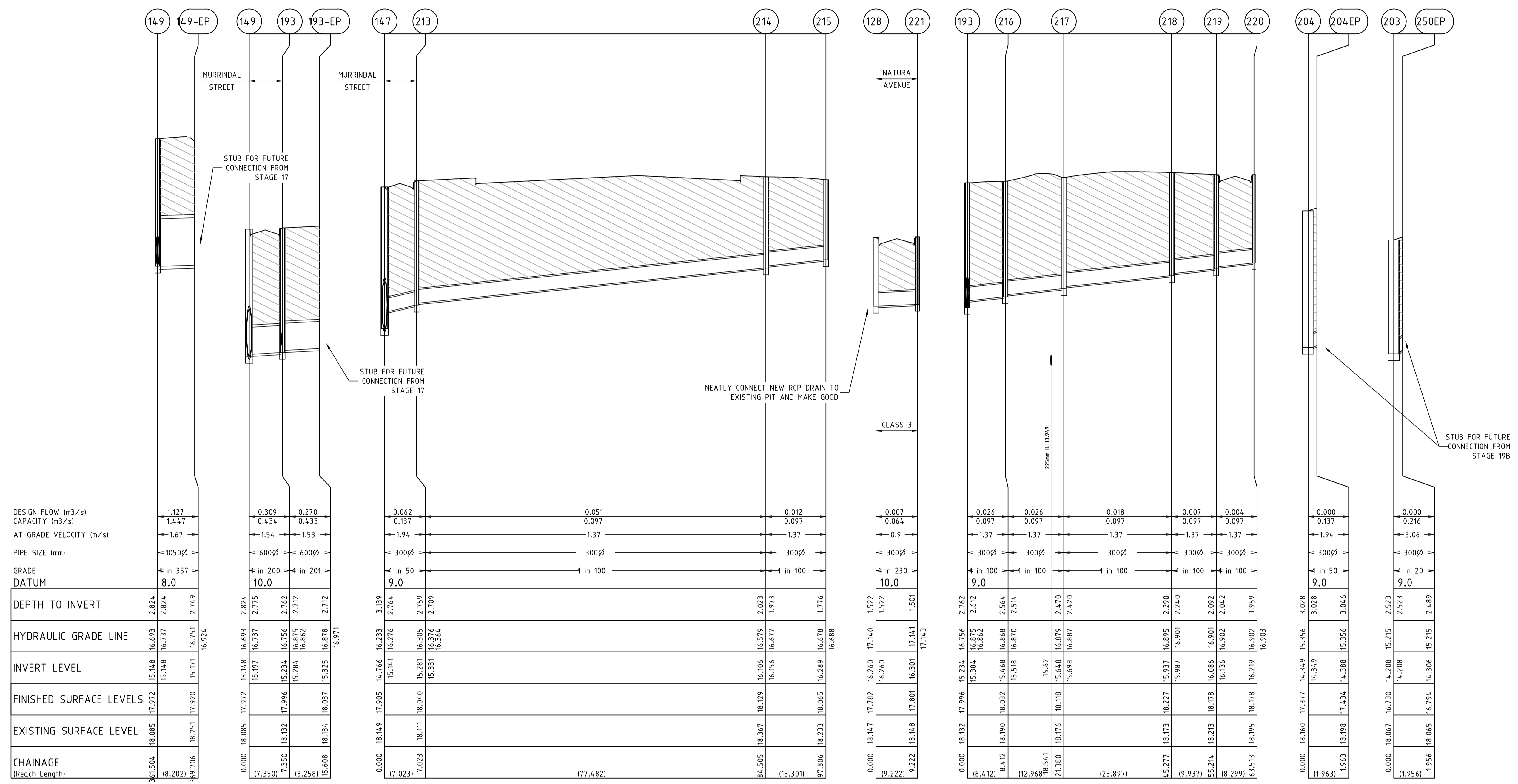
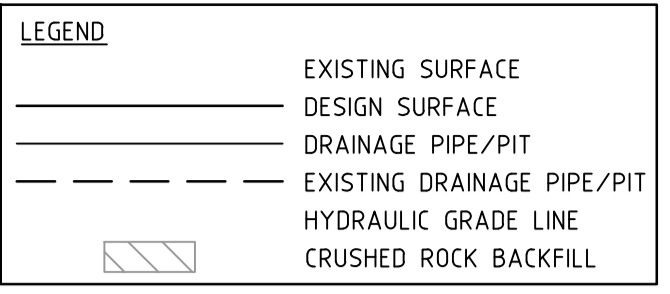




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DESIGN FLOW (m <sup>3</sup> /s)	CAPACITY (m <sup>3</sup> /s)	AT GRADE VELOCITY (m/s)	PIPE SIZE (mm)	GRADE DATUM	DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE (Reach Length)
1.127	1.447	1.67	1050Ø	in 357	2.824	16.693	15.148	17.972	18.085	361.504
0.309	0.433	1.54	600Ø	in 200	2.824	16.737	15.148	17.972	18.085	369.706
0.270	0.433	1.53	600Ø	in 201	2.712	16.756	15.284	17.996	18.132	(8.258)
0.062	0.137	1.94	300Ø	in 50	2.764	16.862	15.325	18.037	18.134	15.608
0.051	0.097	1.37	300Ø	in 100	3.139	16.978	15.375	18.037	18.134	15.608
0.012	0.097	1.37	300Ø	in 100	2.023	16.678	16.289	18.065	18.233	97.806
0.007	0.064	0.9	300Ø	in 230	1.522	16.678	16.289	18.065	18.233	97.806
0.026	0.097	1.37	300Ø	in 100	2.762	16.756	15.234	17.996	18.132	18.132
0.026	0.097	1.37	300Ø	in 100	2.564	16.862	15.384	18.032	18.190	8.412
0.018	0.097	1.37	300Ø	in 100	2.514	16.870	15.518	18.032	18.190	8.412
0.007	0.097	1.37	300Ø	in 100	2.290	16.901	15.62	18.118	18.176	21.380
0.004	0.097	1.37	300Ø	in 100	2.240	16.901	15.698	18.176	18.176	21.380
0.000	0.137	1.94	300Ø	in 50	3.028	16.956	16.227	18.178	18.213	45.277
0.000	0.137	1.94	300Ø	in 50	3.028	16.956	16.901	18.178	18.213	45.277
0.000	0.216	3.06	300Ø	in 20	2.523	16.902	15.987	18.178	18.213	45.277
0.000	0.216	3.06	300Ø	in 20	2.489	16.902	16.219	18.178	18.213	45.277

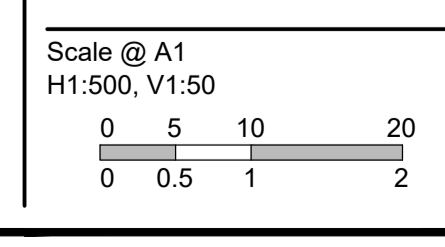
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REVISION	DATE	DES/DFT	APPD
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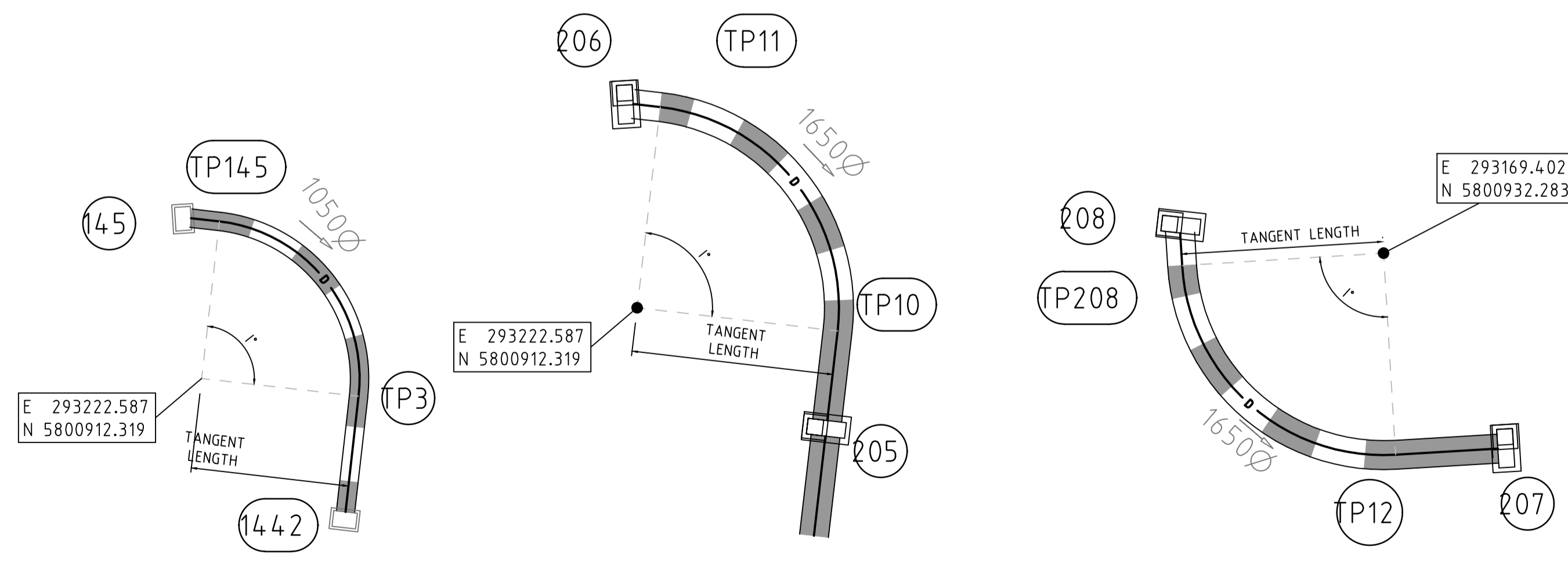
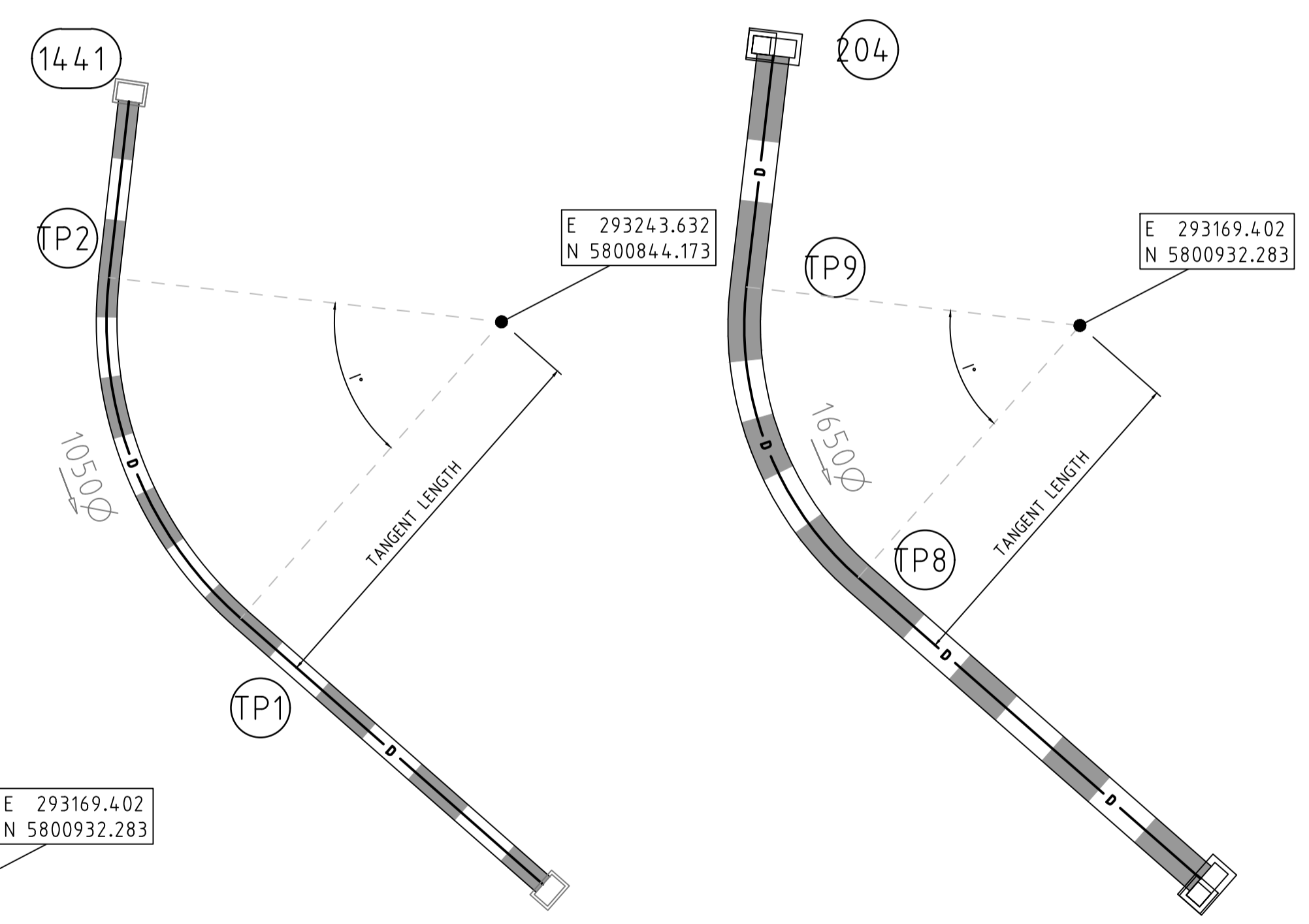
**River Walk**  
 Stage 18  
 Wyndham City Council  
 Roadworks and Drainage  
 Drainage Longitudinal Sections - 3  
 Drawing No. 1932E-18-18  
 Sheet No. 18 of 23  
 Rev 5  
 As Constructed



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.

PIT SCHEDULE											
PIT		INTERNAL		INLET		OUTLET		PIT		STD DWG	REMARKS
NAME	TYPE	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH		
203-EP	ENDPIPE			1650	13.434			16.555	3.121	GAA FIGURE 019	
203	JUNCTION PIT	2200	900	300 1650	14.208 13.533	1650	13.533	16.73	3.198	MW 7251/08/405	1650Ø STUB AT INVERT FOR PIPE OUTFALL. PIT TO BE HAUNCHED AS PER MW STANDARDS TO 900x900 COVER HEAVY DUTY CAST IRON CLASS D COVER
TP8	TANGENT POINT			1650	13.596	1650	13.596	17.147	3.551		
TP9	TANGENT POINT			1650	13.641	1650	13.641	17.334	3.694		
204	JUNCTION PIT	2200	900	300 1650	14.349 13.674	1650	13.674	17.377	3.703	MW 7251/08/405	PIT TO BE HAUNCHED AS PER MW STANDARDS TO 900x900 COVER HEAVY DUTY CAST IRON CLASS D COVER
205	SINGLE SIDE ENTRY PIT GRATED	2200	900	525 1650	14.361 13.798	1650	13.798	17.605	3.807	GAA EDCM 601 MW 7251/08/405	PIT TO BE HAUNCHED AS PER MW STANDARDS TO 900x900 COVER INLET PIT TO EDCM STANDARDS HEAVY DUTY CAST IRON CLASS D COVER
TP10	TANGENT POINT			1650	13.813	1650	13.813	17.635	3.822		
TP11	TANGENT POINT			1650	13.862	1650	13.862	17.489	3.627		
206	DOUBLE SIDE ENTRY PIT GRATED	2200	900	1650	13.867	1650	13.867	17.624	3.757	GAA EDCM 602 MW 7251/08/405	PIT TO BE HAUNCHED AS PER MW STANDARDS TO 900x900 COVER INLET PIT TO EDCM STANDARDS
207	DOUBLE SIDE ENTRY PIT GRATED	2200	900	1650	13.995	1650	13.995	17.86	3.865	GAA EDCM 602 MW 7251/08/405	PIT TO BE HAUNCHED AS PER MW STANDARDS TO 900x900 COVER INLET PIT TO EDCM STANDARDS
TP12	TANGENT POINT			1650	14.012	1650	14.012	17.779	3.767		
TP208	TANGENT POINT			1650	14.061	1650	14.061	17.76	3.699		
208	DOUBLE SIDE ENTRY PIT GRATED	2200	900	300 1650	16.3 14.065	1650	14.067	17.894	3.829	GAA EDCM 602 MW 7251/08/405	PIT TO BE HAUNCHED AS PER MW STANDARDS TO 900x900 COVER INLET PIT TO EDCM STANDARDS
209	DOUBLE SIDE ENTRY PIT GRATED	2200	900	300 1500	16.187 14.145	1650	14.145	18.038	3.893	GAA EDCM 602 MW 7251/08/405	PIT TO BE HAUNCHED AS PER MW STANDARDS TO 900x900 COVER INLET PIT TO EDCM STANDARDS
210	ENDPIPE					1500	14.153	18.053	3.9		
211	DOUBLE SIDE ENTRY PIT GRATED	600	900			300	16.378	17.919	1.541	GAA EDCM 602	
212	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	16.256	300	16.226	18.065	1.839	GAA EDCM 602	
14.7	SINGLE SIDE ENTRY PIT GRATED	1350	900	300 1050	15.141 14.766	1050	14.766	17.905	3.139	GAA EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
213	SINGLE SIDE ENTRY PIT GRATED	600	900	300	15.331	300	15.281	18.04	2.759	GAA EDCM 601	
214	JUNCTION PIT	600	900	300	16.156	300	16.106	18.129	2.023	GAA EDCM 605	
215	DOUBLE SIDE ENTRY PIT GRATED	600	900			300	16.289	18.065	1.776	GAA EDCM 602	
193	DOUBLE SIDE ENTRY PIT GRATED	900	900	300 600	15.384 15.284	600	15.234	17.996	2.762	GAA EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER FLOW DEFLECTOR IN PIT FLOOR
216	JUNCTION PIT	600	900	300	15.518	300	15.468	18.032	2.564	GAA EDCM605	
217	JUNCTION PIT	600	900	300	15.698	300	15.648	18.118	2.47	GAA EDCM605	
218	JUNCTION PIT	600	900	300	15.987	300	15.937	18.227	2.29	GAA EDCM605	
219	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	16.136	300	16.086	18.178	2.092	GAA EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
220	DOUBLE SIDE ENTRY PIT GRATED	600	900			300	16.219	18.178	1.959	GAA EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
128	SINGLE SIDE ENTRY PIT GRATED	600	900	300	16.26	300	16.21	17.782	1.572	GAA EDCM 601	CONSTRUCT OVER EXISTING ENDPIPE AND MAKE GOOD
221	SINGLE SIDE ENTRY PIT GRATED	600	900			300	16.301	17.801	1.501	GAA EDCM 601	
14.4-EP	ENDPIPE					1050	14.062	16.702	2.64	GAA FIGURE 019	PIPE OUTFALL
14.4	SINGLE SIDE ENTRY PIT GRATED	1350	900	1050	14.178	1050	14.178	16.89	2.712	GAA EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
TP1	TANGENT POINT			1050	14.243	1050	14.243	17.319	3.077		
TP2	TANGENT POINT			1050	14.303	1050	14.303	17.35	3.046		
14.4.1	SINGLE SIDE ENTRY PIT GRATED	1350	900	1050	14.333	1050	14.333	17.467	3.134	GAA EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
14.4.2	JUNCTION PIT	1350	900	1050	14.468	1050	14.468	17.572	3.104	GAA EDCM605	PIT TO BE HAUNCHED TO 600x900 COVER HEAVY DUTY 600x900 COVER
TP3	TANGENT POINT			1050	14.49	1050	14.49	17.722	3.232		
TP14.5	TANGENT POINT			1050	14.534	1050	14.534	17.636	3.102		
14.5	DOUBLE SIDE ENTRY PIT GRATED	1350	900	1050	14.541	1050	14.541	17.632	3.091	GAA EDCM 602 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
14.6	SINGLE SIDE ENTRY PIT GRATED	1350	900	1050	14.681	1050	14.681	17.873	3.192	GAA EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
14.8	SINGLE SIDE ENTRY PIT GRATED	1350	900	1050	15.004	1050	15.004	18.077	3.073	GAA EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
14.9	SINGLE SIDE ENTRY PIT GRATED	1350	900	1050 600	15.148 15.197	1050	15.148	17.972	2.824	GAA EDCM 601 & 607	PIT TO BE HAUNCHED TO 600x900 COVER
14.9-EP	ENDPIPE			1050	15.171	1050	15.171	17.92	2.749		STUB FOR FUTURE CONNECTION
193-EP	ENDPIPE			600	15.325	600	15.325	18.037	2.712		STUB FOR FUTURE CONNECTION
205-EP	ENDPIPE			525	14.4	525	14.4	17.665	3.265		STUB FOR FUTURE CONNECTION
204-EP	ENDPIPE					300	14.388	17.434	3.046		STUB FOR FUTURE CONNECTION
212-EP	ENDPIPE					300	16.259	18.068	1.809		STUB FOR FUTURE CONNECTION
250-EP	ENDPIPE					300	14.306	16.794	2.489		STUB FOR FUTURE CONNECTION

**AS CONSTRUCTED PLANS**  
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MANUFACTURED SPLAY PIPE INFORMATION					
SPLAY #	PIPE DETAILS	CENTRE RADIUS (m)	ARC LENGTH (m)	TANGENT LENGTH (m)	I'
TP1-TP2	1050Ø MANUFACTURED SINGLE ENDED SPLAY PIPE	20.00	19.23	20.00	55.10
TP8-TP9	1650Ø MANUFACTURED SINGLE ENDED SPLAY PIPE	17.00	16.40	17.00	55.30
TP3-TP14.5	1050Ø MANUFACTURED DOUBLE ENDED SPLAY PIPE	9.00	14.14	9.00	90.02
TP10-TP11	1650Ø MANUFACTURED DOUBLE ENDED SPLAY PIPE	11.50	18.07	11.50	90.02
TP12-TP208	1650Ø MANUFACTURED DOUBLE ENDED SPLAY PIPE	11.50	18.04	11.50	89.89

NOTE: CCTV WILL NEED TO REFERENCE COUNCIL PIT NO'S SETOUT LEVEL TO PIT COVER LEVEL. PIPES TO BE CONSTRUCTED IN ACCORDANCE WITH GAA 13.14 REFER TO SHEET 21 AND 22 FOR PIT DETAILS

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REVISION	DATE	DES/DFT	APPD
5	AS CONSTRUCTED	21.08.18	HE/HE LV
4	FSL AMENDED TO MATCH DCE	10.04.18	NG/NG MB
3	ISSUED FOR CONSTRUCTION	04.12.17	BC/NS MB

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

All setting out should be carried out in accordance with the relevant authority'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  
 N.Shrestha  
 Checked  
 L.Vieyra  
 Authorised  
 M.Bouwmeester  
 Date  
 June 2016

Scale @ A1  
 AS SHOWN

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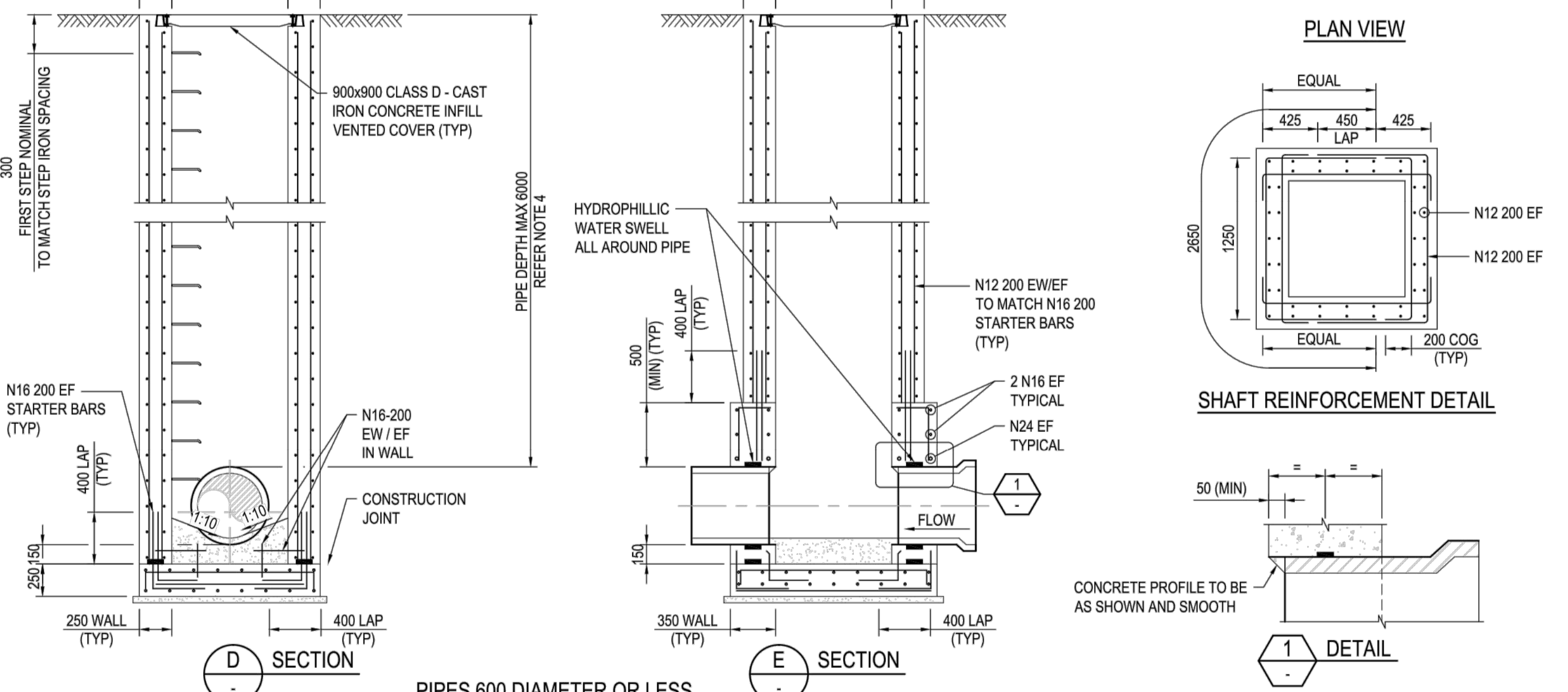
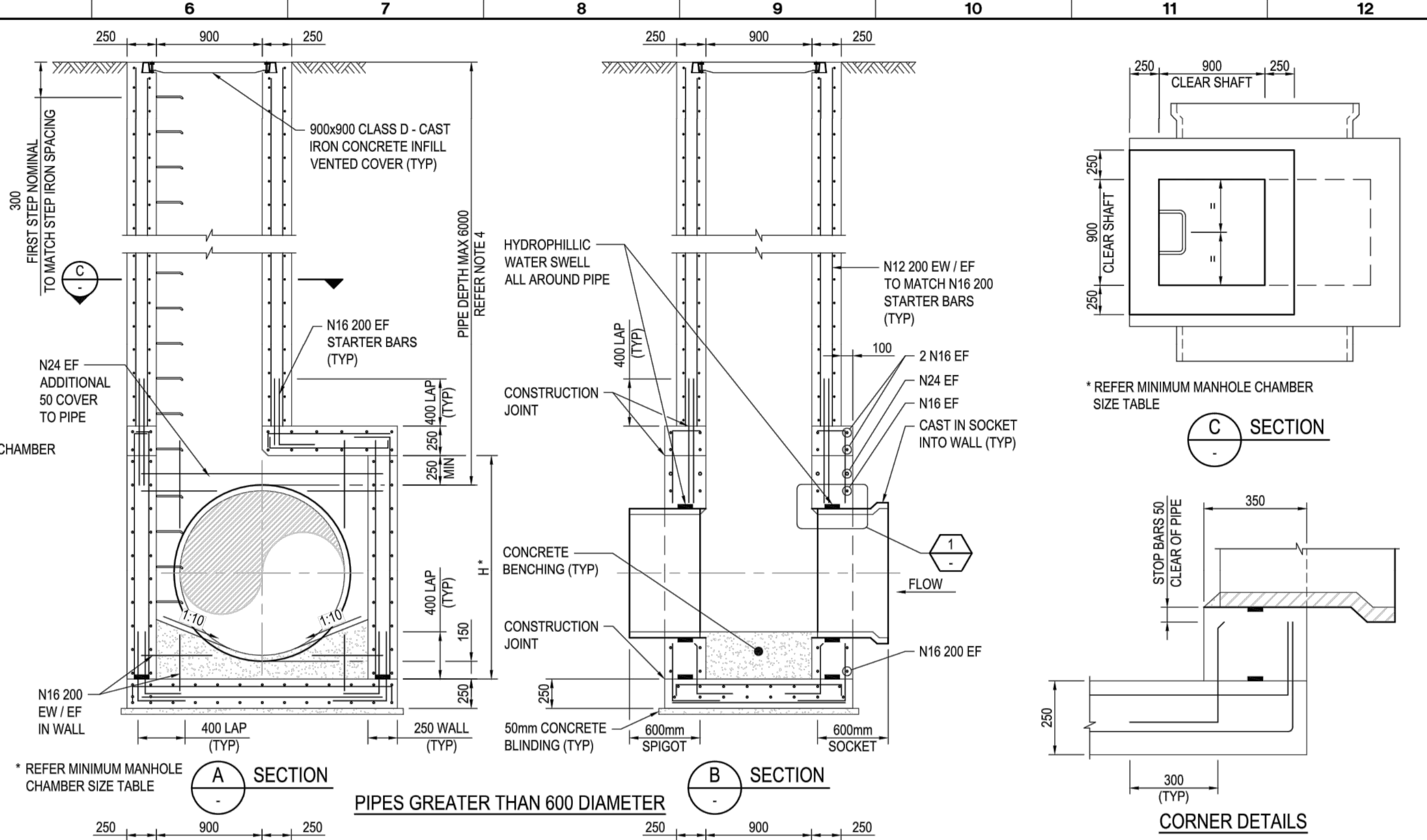
**River Walk**  
 Stage 18  
 Wyndham City Council  
 Roadworks and Drainage  
 Pit Schedule  
 Drawing No. 1932E-18-19  
 Sheet No. 19 of 23  
 Rev 5  
 As Constructed







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7251/08/405	MVC DRAWING NUMBER																																																																							
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<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>THE PURPOSE OF THE MANHOLE IS TO PROVIDE ACCESS INTO THE DRAIN. NO FUTURE PIPE CONNECTIONS TO BE MADE INTO MANHOLE STRUCTURE.</li> <li>FOR PIPES WITH DEPTH TO OBVERT LESS THAN 3500mm REFER TO TABLES FOR DIMENSIONS OF MANHOLE CHAMBER AND REINFORCEMENT DETAIL.</li> <li>FOR LARGER PIPE DIAMETERS NOT COVERED IN MANHOLE CHAMBER SIZE TABLE REFER TO DRAWING 7251/08/407.</li> <li>FOR PIPES WITH DEPTH TO OBVERT LESS THAN 3500mm REFER TO DRAWINGS 7251/08/404.</li> <li>REFER DRAWING 7251/08/416 FOR STEP IRON AND LADDER DETAILS.</li> <li>PREFERENCE TO BE GIVEN FOR INSTALLING THE STEP IRONS IN A SINGLE STRAIGHT RUN. MISALIGNMENT OF STEP IRONS TO BE IN ACCORDANCE WITH AS 1657.</li> <li>MANHOLES ARE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS 3600 AND AS3735.</li> <li>MANHOLES SHOWN ON THIS DRAWING HAVE BEEN DESIGNED FOR A LATERAL AT REST EARTH PRESSURE OF 0.50 AND A WHEEL LOAD OF 80KN. THE REQUIREMENTS OF WALL THICKNESS AND REINFORCEMENT SHALL BE DETERMINED BY THE DESIGNER HAVING REGARD TO SITE CONDITIONS.</li> <li>THE DESIGNER TO CONSIDER MANHOLE BACKFILLING METHODOLOGY DURING THE DESIGN PROCESS. PIPE BACKFILLING TO COMPLY WITH DRAWING 7251/08/419.</li> <li>IT IS THE DESIGNER'S RESPONSIBILITY TO ENSURE THAT THE NOMINATED MELBOURNE WATER STANDARD DRAWINGS ARE SUITABLE FOR PROJECT USE.</li> <li>DESIGN ENGINEER TO CARRY OUT SAFETY IN DESIGN RISK ASSESSMENT FOR ANY DESIGN INCORPORATING MELBOURNE WATER STANDARD DRAWINGS.</li> <li>NOMINATED MANHOLE COVER CLASS IS TO AS3996. VENTS IN COVERS TO BE FORMED IN THE MANUFACTURING PROCESS AND NOT ON SITE.</li> <li>CONCRETE SHALL BE GRADE S40 WITH A MAXIMUM CEMENT RATIO OF 0.50.</li> <li>MINIMUM CONCRETE COVER TO REINFORCEMENT IS 50mm.</li> <li>THE CONTRACTOR TO OBTAIN NECESSARY PERMITS AND APPROVALS FROM MELBOURNE WATER PRIOR TO COMMENCING WORKS ON EXISTING MELBOURNE WATER ASSETS.</li> <li>ALL CONCRETE TO BE CAST IN SITU.</li> <li>FOR MANHOLES LOCATED IN NON-PAVED AREAS, CAST IN 600mm CONCRETE APRON SURROUND ALL AROUND THE MANHOLE AS SHOWN ON CONCRETE APRON ARRANGEMENT DETAIL ON DRAWING 7251/08/417.</li> <li>NO VEGETATION OBSTRUCTIONS TO BE LOCATED WITHIN 2m ZONE OF MANHOLES.</li> </ol>																																																																								
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<p><b>MANHOLES (&gt;3.5m AND &lt;6.0m DEEP)</b> FOR PIPELINES UP TO 1800mm DIAMETER</p>										<p>MELBOURNE WATER CORPORATION</p> <p>7251/08/405</p> <p>MVC DRAWING NUMBER</p>																																																																																																																	
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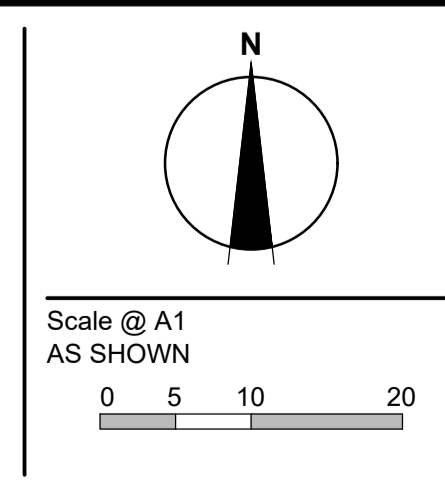
Designed  
B.Cheung

Drawn  
N.Shrestha

Checked  
L.Vieira

Authorised  
M.Bouwmeester

Date  
June 2016



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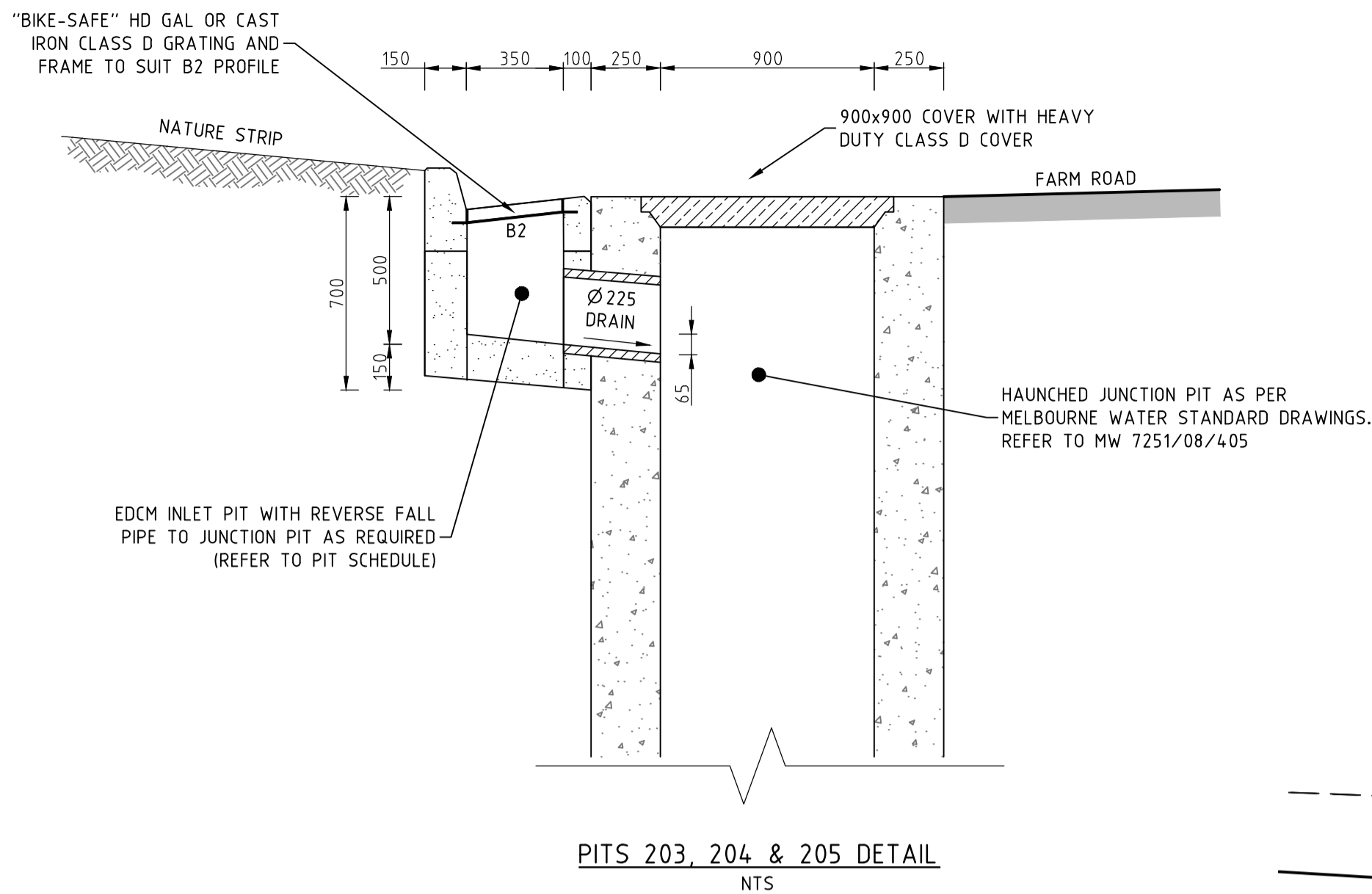


**River Walk**  
Stage 18  
Wyndham City Council  
Melbourne Water Standard Drawing  
7251/08/405 Manholes (>3.5 & <6m Deep)  
For Pipelines Up To 1800mm Diameter  
**Drawing No. 1932E-18-21**    **Rev 4**  
Sheet No. 21 of 23

As Constructed

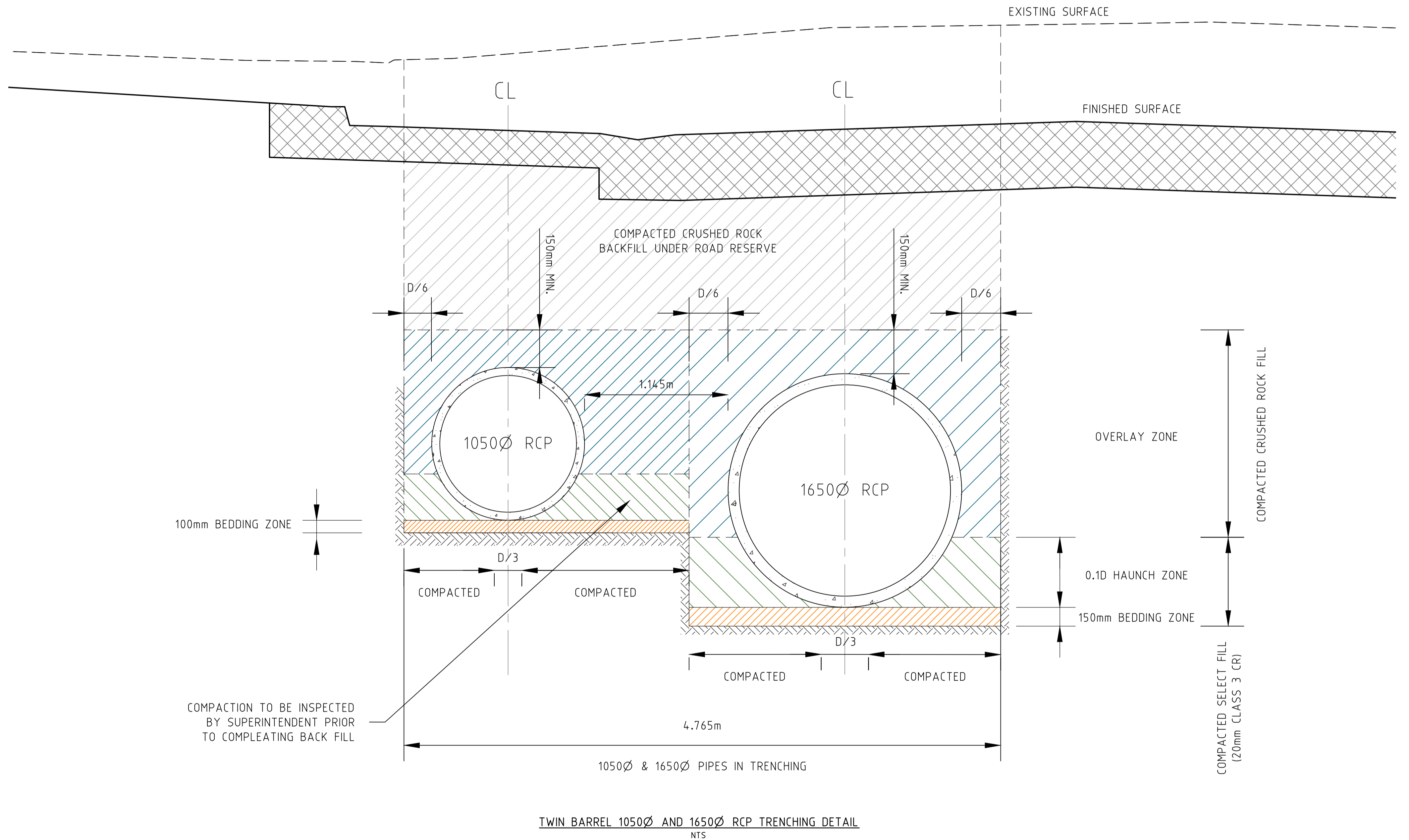
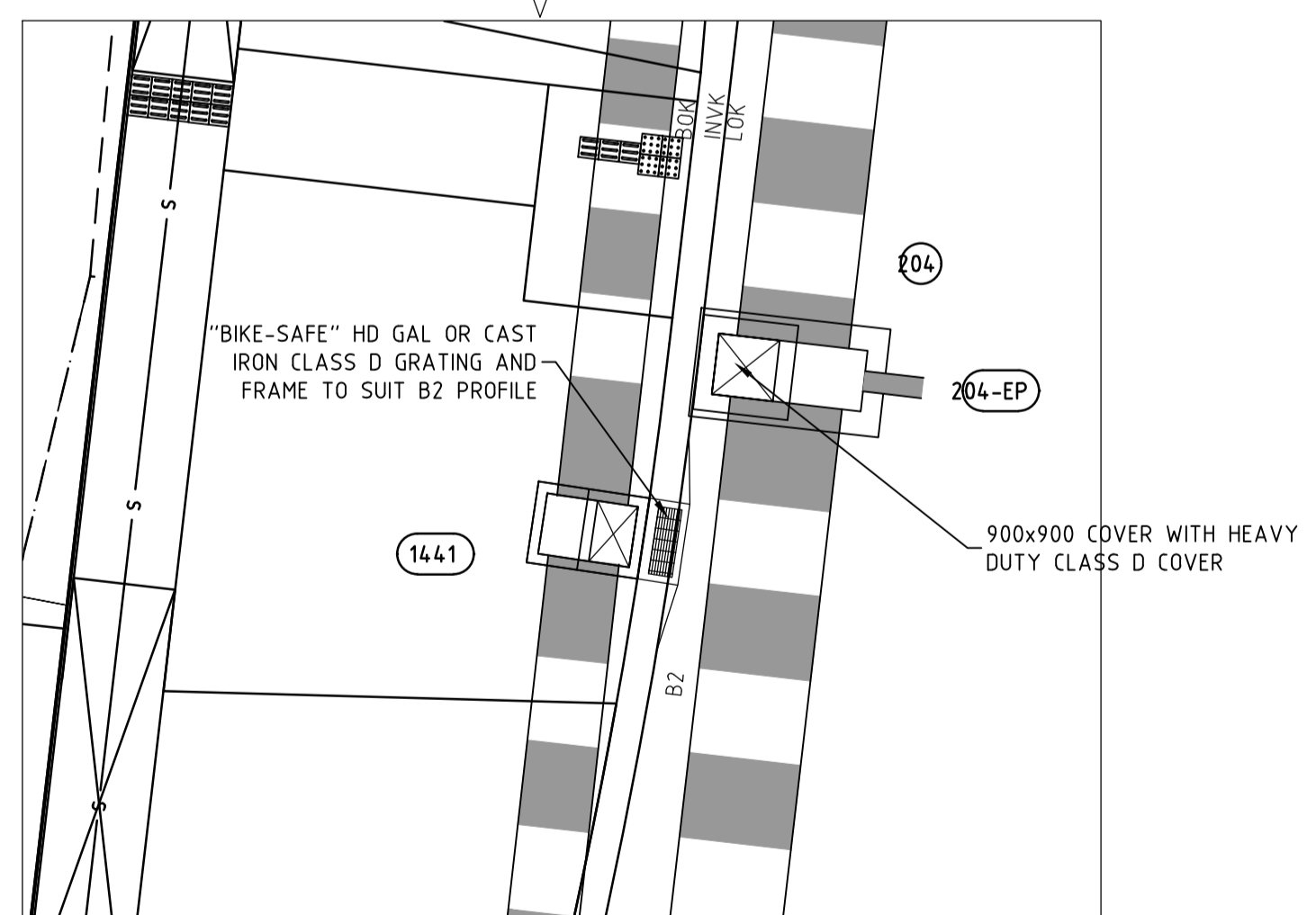
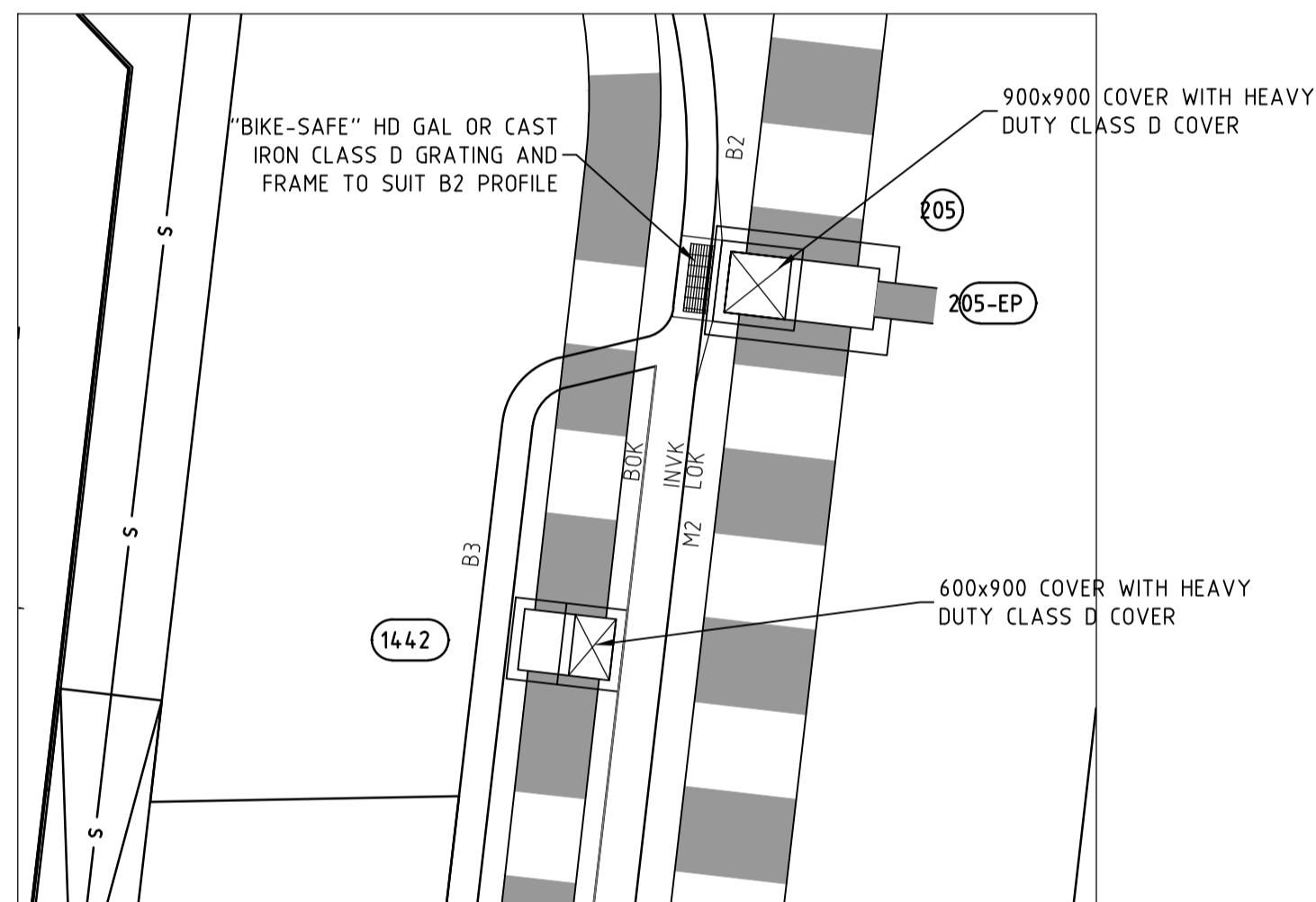
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**CRUSHED ROCK BACKFILL**  
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



v:\urban\projects\\_urban\1932e-riverwalk\1932e-18\dwg\1932e-18-22

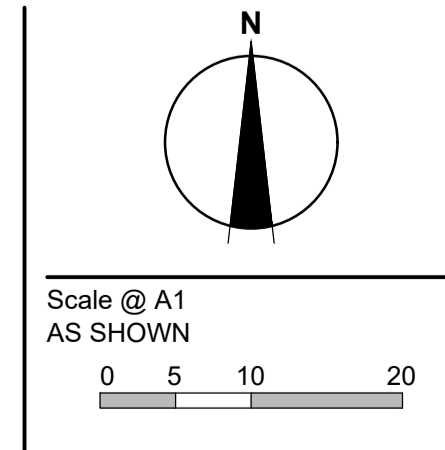
REVISION	DATE	DES/DFT	APPD
4 AS CONSTRUCTED	21.08.18	HE/HE	LV
3 ISSUED FOR CONSTRUCTION	04.12.17	NG/SS	MB



Principal  
 Development Victoria  
 710 Collins Street  
 Docklands, VIC - 3008

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  
 N.Shrestha  
 Checked  
 L.Vieyra  
 Authorised  
 M.Bouwmeester  
 Date  
 June 2016



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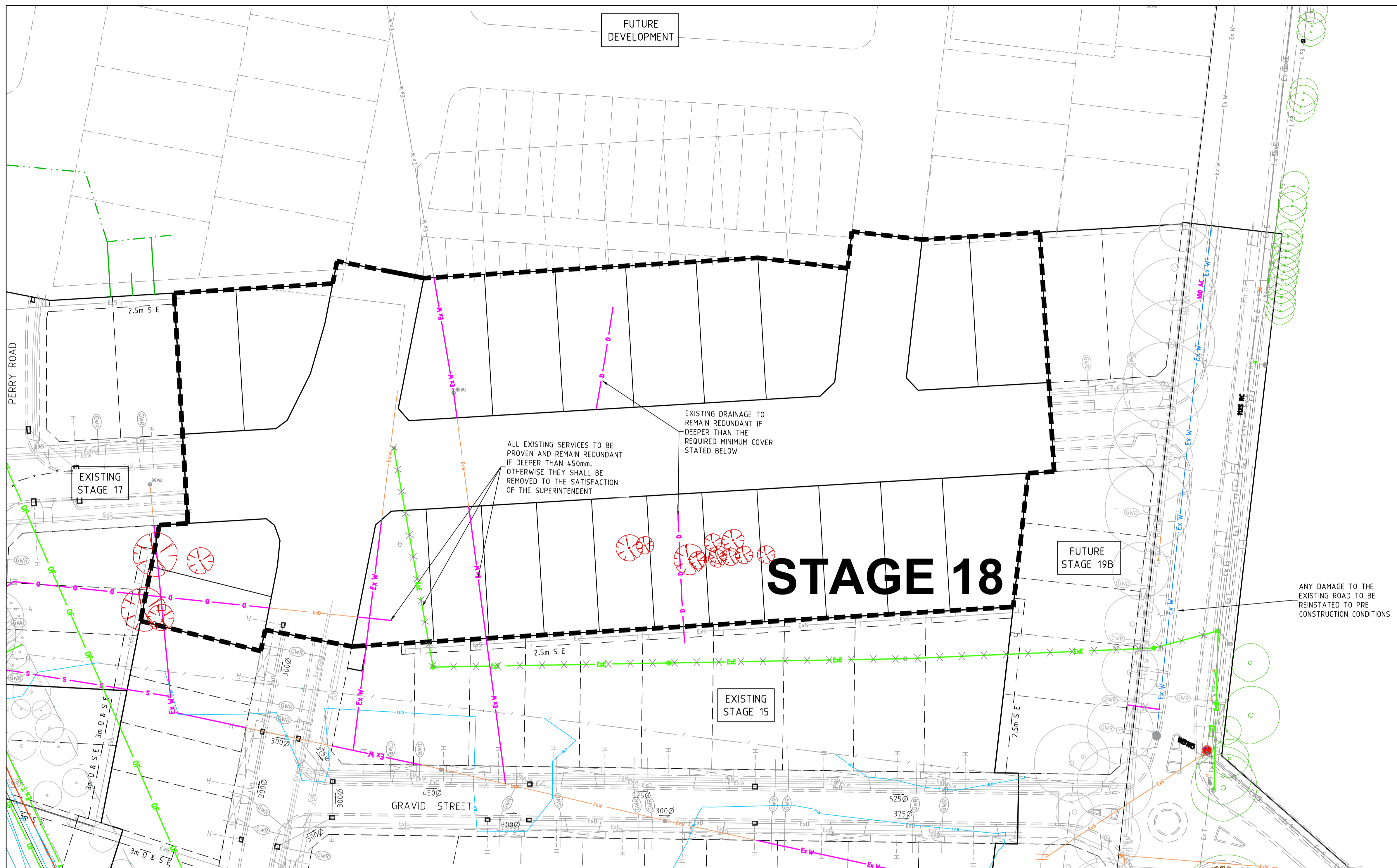


**River Walk**  
 Stage 18  
 Wyndham City Council  
 Drainage Detail  
 Twin Pipe Trenching & Inlet Pit Detail  
 Drawing No. 1932E-18-22  
 Sheet No. 22 of 23  
 Rev 3  
 As Constructed









**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

**WARNING**  
**BWARE 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

**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 DESLUDGED & 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.)
- EXISTING SERVICES TO BE REMOVED TO THE SATISFACTION OF THE SUPERINTENDENT.
- 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.
- EXISTING SERVICES & FENCES RELOCATED/REMOVED AS PART OF STAGE 12 WORKS

**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 ACCEPT NO RESPONSIBILITY FOR LOSS OR DAMAGES RESULTING FROM THE INAPPROPRIATE USAGE OF THESE PLANS.

**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.

**WARNING**  
 • OPTIC FIBRE IN VICINITY OF WORKS  
 • TEL 8317 3685 (PLACES VICTORIA)  
 9253 8263 (TELSTRA)

v:\urban\projects\urban\1932e-riverwalk\1932e-18\dwg\1932e-18.dwg

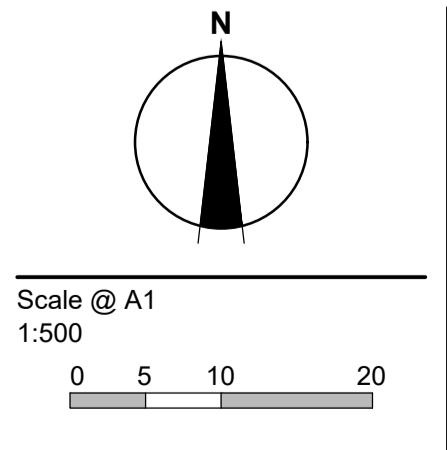
REVISION	DATE	DES/DFT	APPD
4	21.08.18	HE/HE	LV
3	04.12.17	BC	MB

Principal  
 Development Victoria  
 710 Collins Street  
 Docklands, VIC - 3008



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  
 N.Shrestha  
 Checked  
 L.Vieyra  
 Authorised  
 M.Bouwmeester  
 Date  
 July 2016



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**Riverwalk**  
 Stage 18  
 Wyndham City Council  
 Roadworks and Drainage  
 Demolition Plan

**Drawing No. 1932E-18-99**      **Rev 4**  
 Sheet No. 1 of 1

**For Construction**