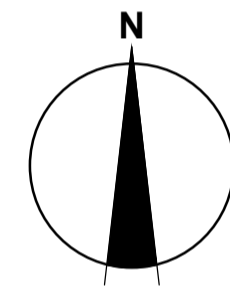


Riverwalk

Stage 5

Wyndham City Council



Drawing Index

- 1932E-05-01 Cover Plan
- 1932E-05-02 Layout Plan
- 1932E-05-03 Earthworks Plan
- 1932E-05-04 Intersection Detail Plan & Signage & Line Marking Plan
- 1932E-05-05 Lip Profiles & Setout Information
- 1932E-05-06 Longitudinal Sections
- 1932E-05-07 Cross Sections: Assembly Street
- 1932E-05-08 Cross Sections: Flourish Way
- 1932E-05-09 Drainage Longitudinal Sections & Pit Schedule
- 1932E-05-10 General Notes & Details
- 1932E-05-11 Earthwork Cross Section
- 1932E-05-85 Safety In Design

LOCALITY PLAN
MELWAYS REF: 205 D12

Places Victoria

Principal

Places Victoria
710 Collins Street
Docklands, VIC - 3008



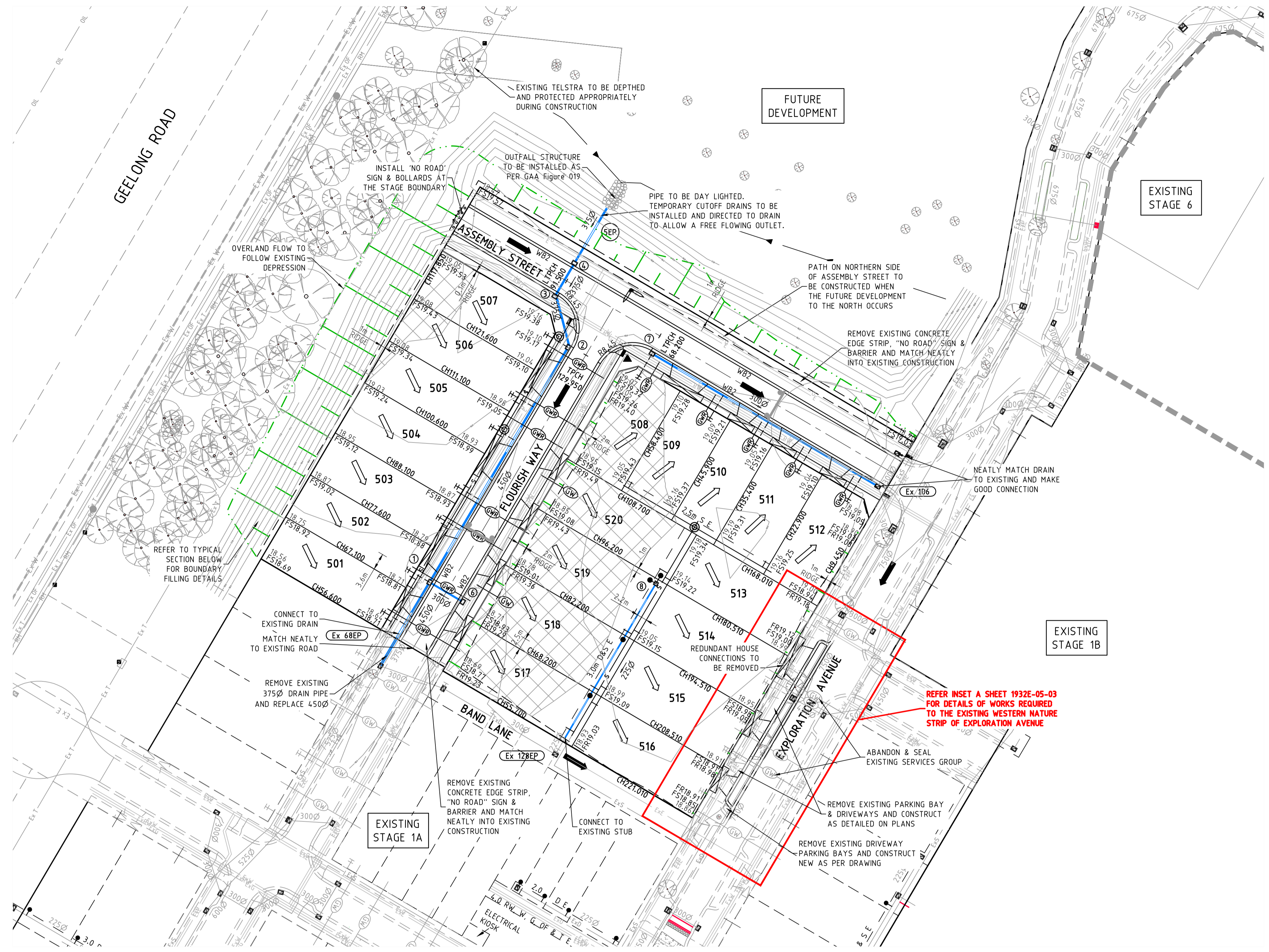
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Melbourne, VIC, 3004
Tel: +61 3 9514 1500
Fax: +61 3 9514 1502

A.B.N. 47 065 475 149

**ISSUED FOR
CONSTRUCTION**

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-05-85
ASSESS THE RISK - STAY SAFE

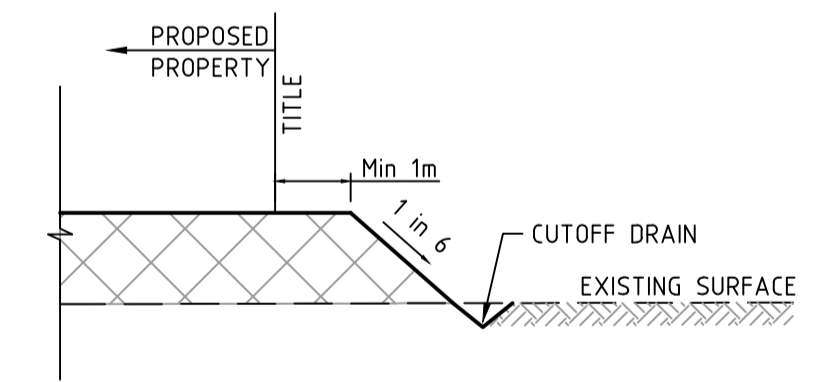


LEGEND - LAYOUT PLAN

- 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

NOTES:

- ALL EXISTING PITS & MANHOLES WITHIN NEW WORKS TO BE ADJUSTED TO MATCH NEW FINISHED SURFACE LEVELS.



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)	SIDE	OFFSET (m)
FLOURISH WAY	EAST	2.10	EAST	3.10	EAST	2.60	WEST	2.60	WEST	1.90	WEST	1.0
ASSEMBLY STREET	SOUTH	2.10	SOUTH	3.10	SOUTH	2.60	NORTH	2.60	NORTH	1.90	WEST	1.0
Ex. EXPLORATION AVENUE	EAST	2.10	EAST	3.10	EAST	2.60	WEST	2.40	WEST	1.90	WEST	1.0

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
FLOURISH WAY	AS1	16.00	6.10	7.00	7.30	WB2	WB2	4.35	4.35
ASSEMBLY STREET	AS1	16.00	6.10	7.00	7.30	WB2	WB2	4.35	4.35
Ex. EXPLORATION AVENUE	AS1	18.90	5.40/VARIES	6.15/VARIES	6.60/11.05	WM2/WB2	WM2/WB2	6.00/4.00	4.6/2.45

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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.
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 www.1100.com.au

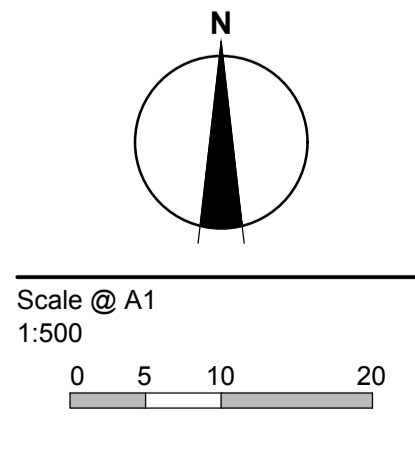
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REVISION	DATE	DES/DFT	APPD	

Places Victoria

Principal
 Places Victoria
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 Docklands, VIC - 3008

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



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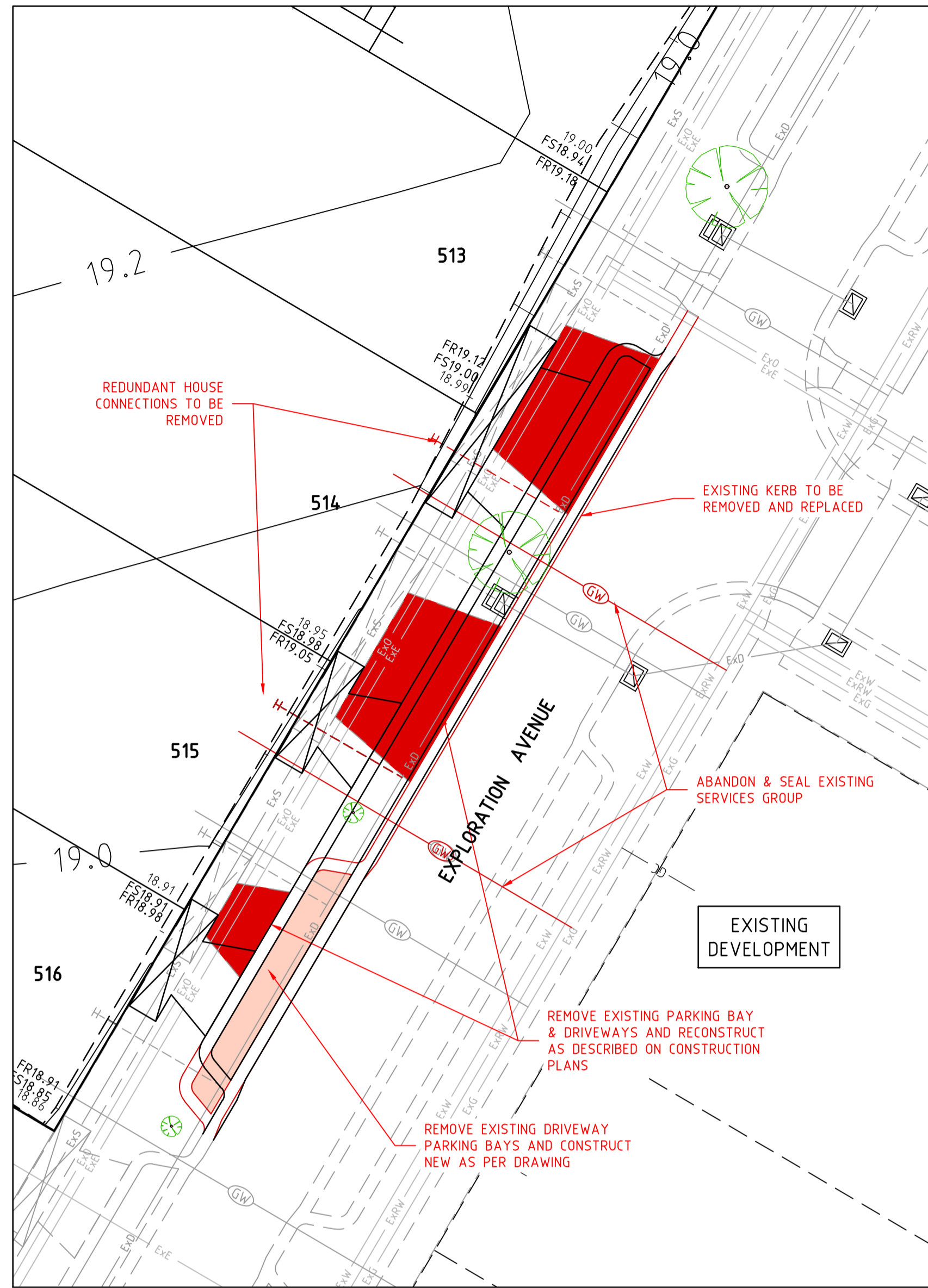
Riverwalk
 Stage 5
 Wyndham City Council
 Roadworks and Drainage
 Layout Plan

Drawing No. 1932E-05-02
 Sheet No. 2 of 11

Rev 0

For Construction

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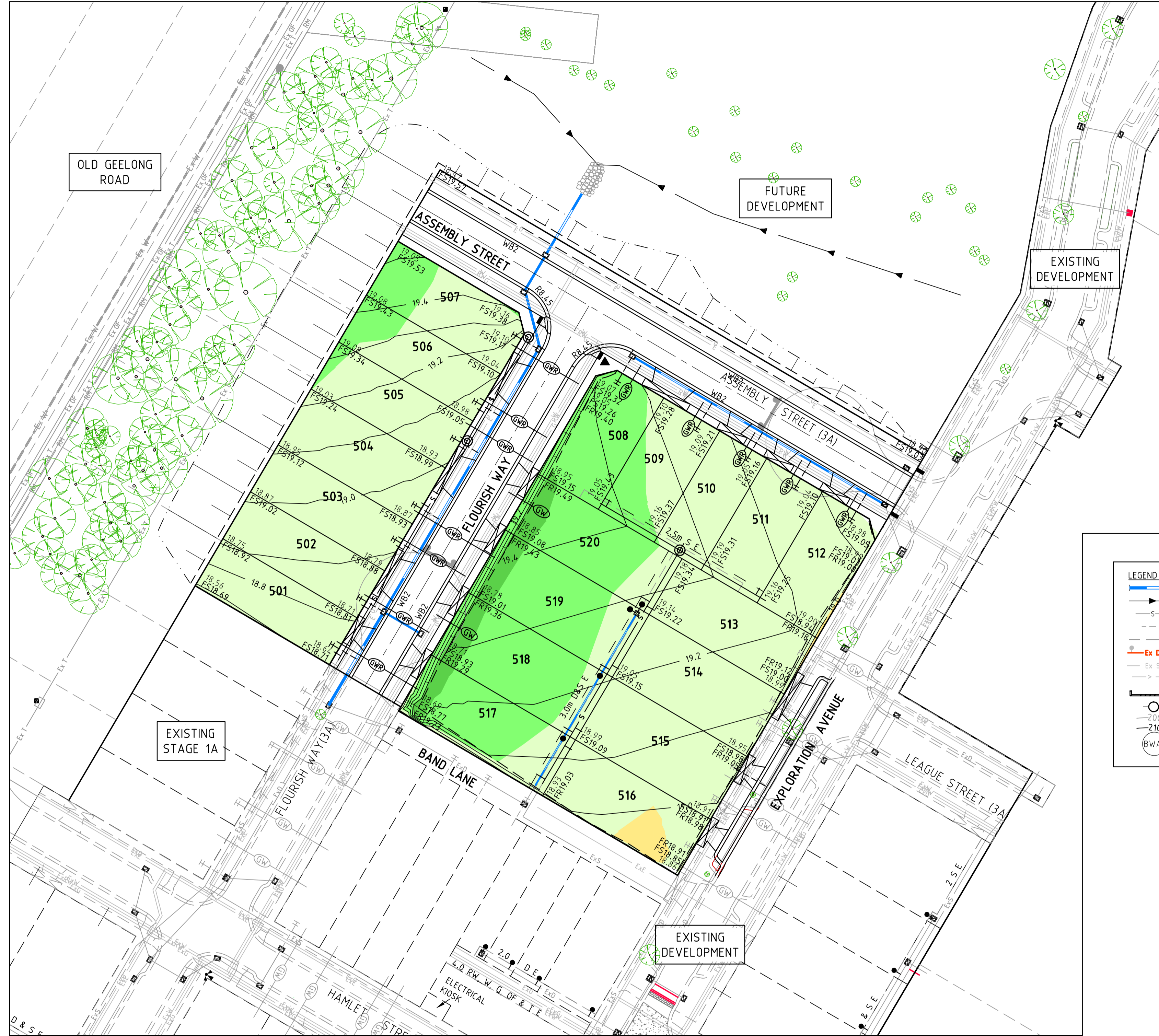


INSET A
SCALE@A1 1:200

DEMOLITION PLAN LEGEND

- EXISTING DRIVEWAY AND KERB AND CHANNEL TO BE REMOVED
- EXISTING PARKING BAY TO BE REMOVED

ALL DISTURBED AREAS TO BE REINSTATED TO PRE CONSTRUCTION CONDITIONS



CUT/FILL DEPTH (m)	Colour
-2 to -3	Dark Red
-1.5 to -2	Red
-1 to -1.5	Magenta
-0.5 to -1	Red-Orange
-0.2 to -0.5	Yellow-Orange
0 to -0.2	Yellow
0 to 0.2	Light Green
0.2 to 0.5	Green
0.5 to 1	Dark Green
1 to 1.5	Very Dark Green
1.5 to 2	Black-Green
2 to 3	Black

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
- DESIGN CONTOURS
- SETOUT BUBBLES

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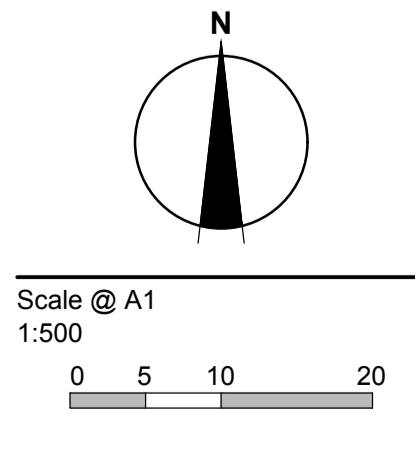
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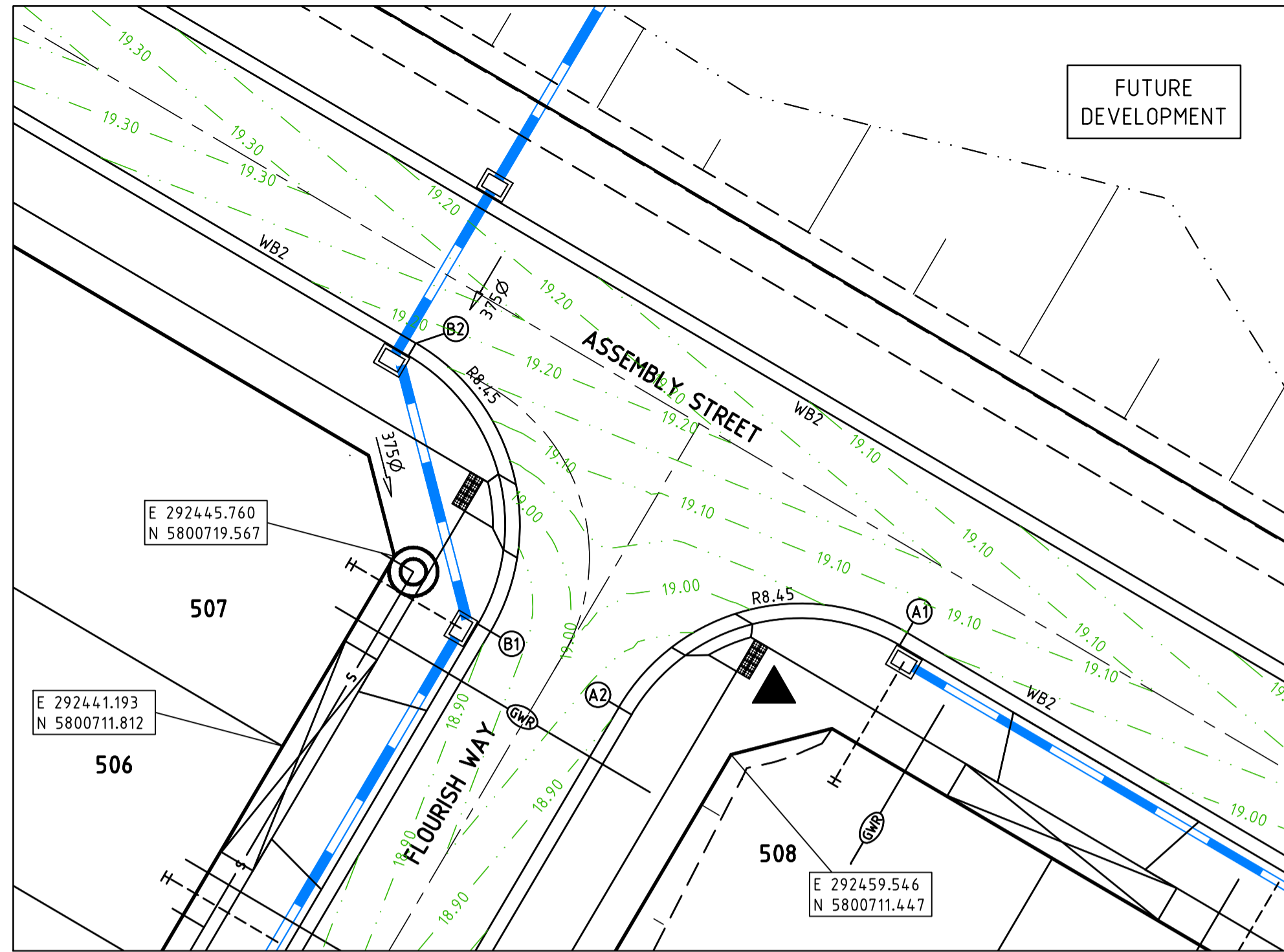
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Drawn
N.Shrestha
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M.Bouwmeester
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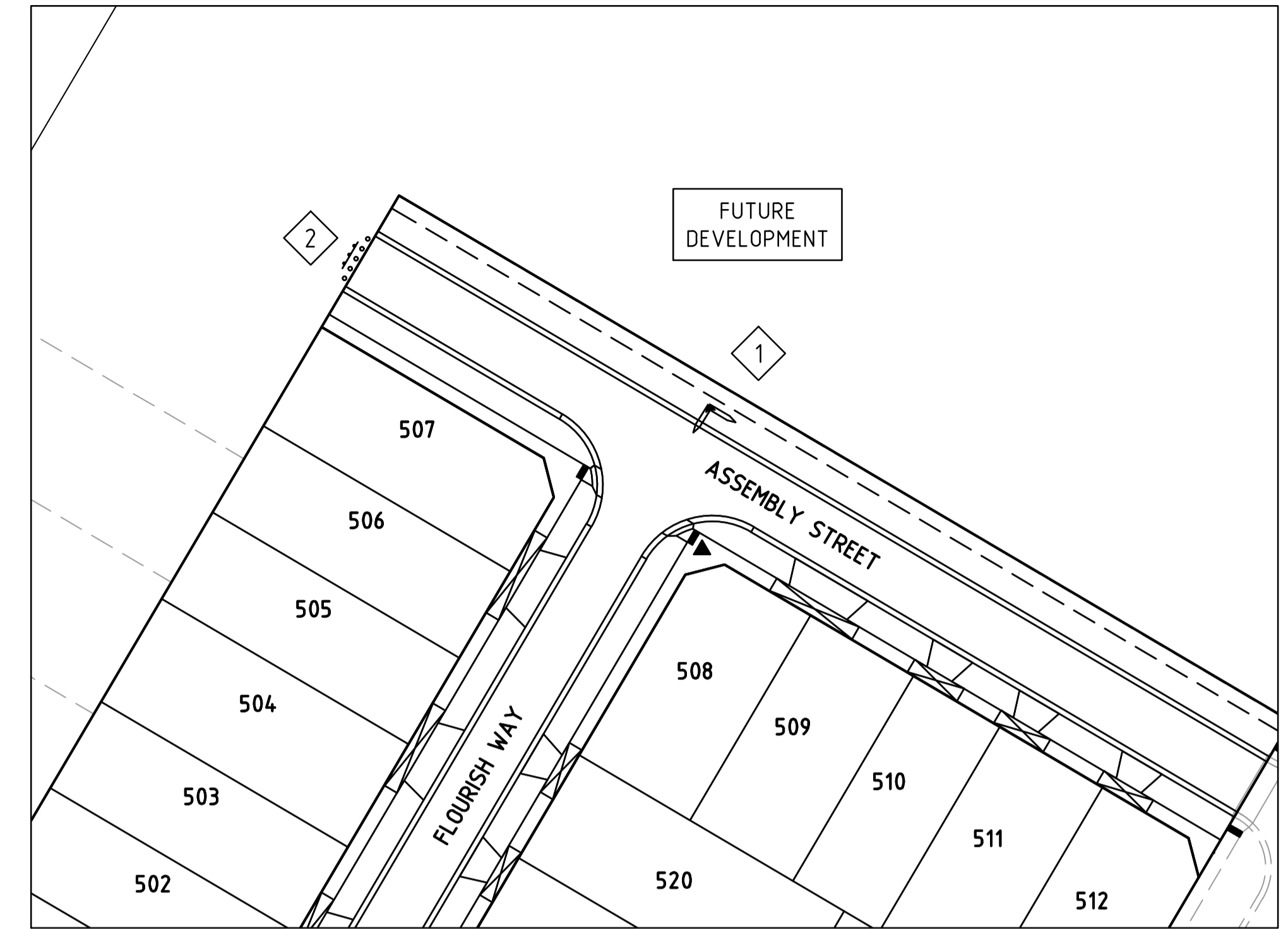
Riverwalk
Stage 5
Wyndham City Council
Roadworks and Drainage
Earthworks Plan
Drawing No. 1932E-05-03 **Rev 0**
Sheet No. 3 of 11
For Construction



LEGEND - INTERSECTION PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- TACTILE PAVERS
- EXISTING HOUSE DRAIN
- RETAINING WALL
- PAVEMENT TREATMENT
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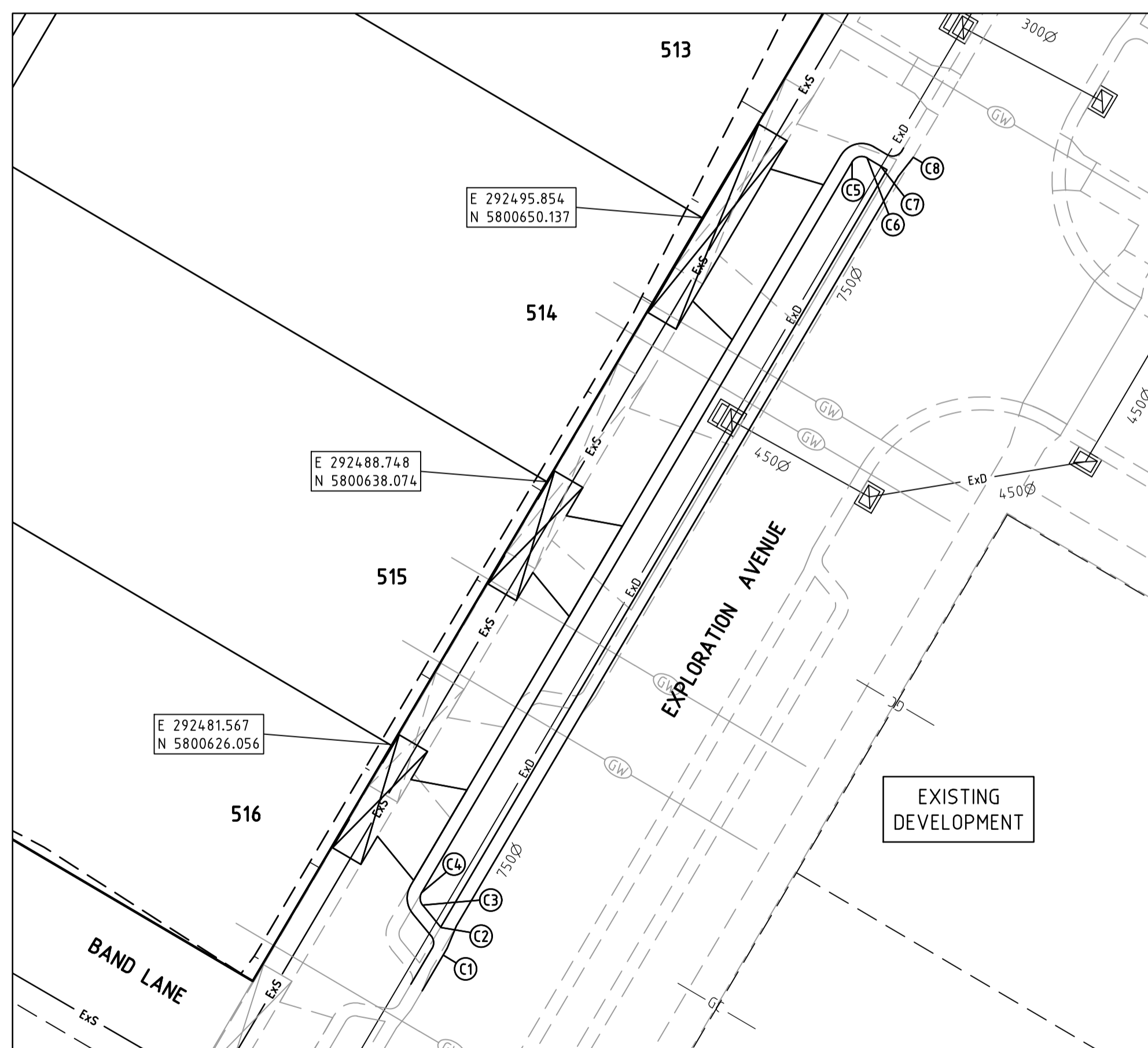


SIGNAGE & LINE MARKING PLAN

SCALE@A1 1:500
 0 5 10 20

SIGN SCHEDULE

SIGN	REF
	1
STREET SIGN	
	2
ROAD CLOSED	
	G9-20



INTERSECTION DETAIL PLAN

SCALE@A1 1:200
 0 2 4 8

NOTES

- REFER TO SHEET No. 05 FOR LIP PROFILES & SETOUT INFORMATION

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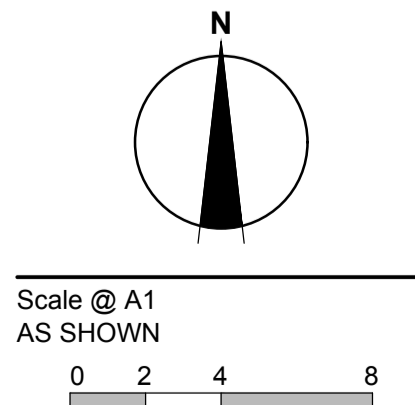
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Designed
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 N.Shrestha
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 L.Vieyra
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 M.Bouwmeester
 Date
 August 2016



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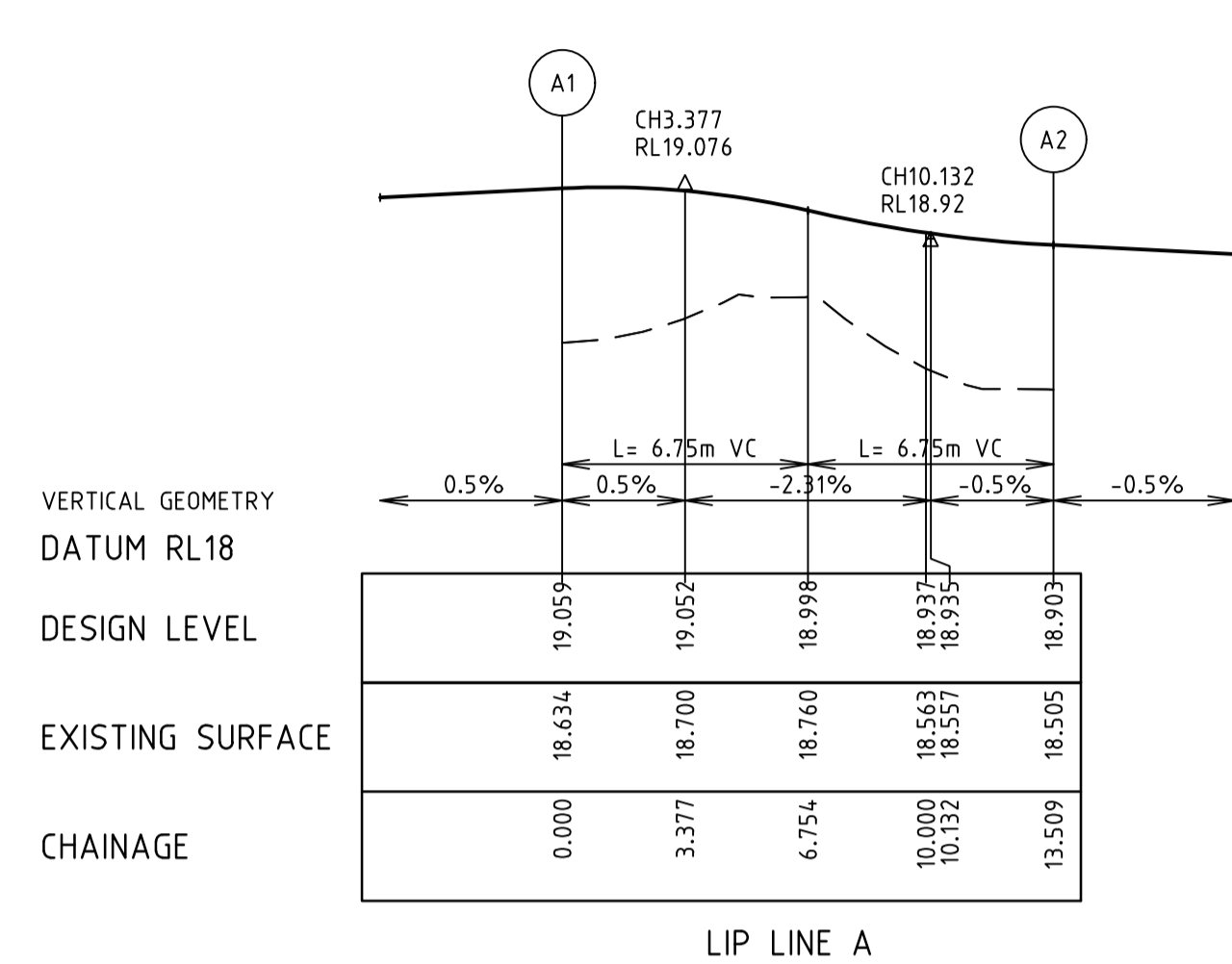
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 Stage 5
 Wyndham City Council
 Roadworks and Drainage
 Intersection Detail Plan &
 Signage & Line Marking Plan
Drawing No. 1932E-05-04
 Sheet No. 4 of 11

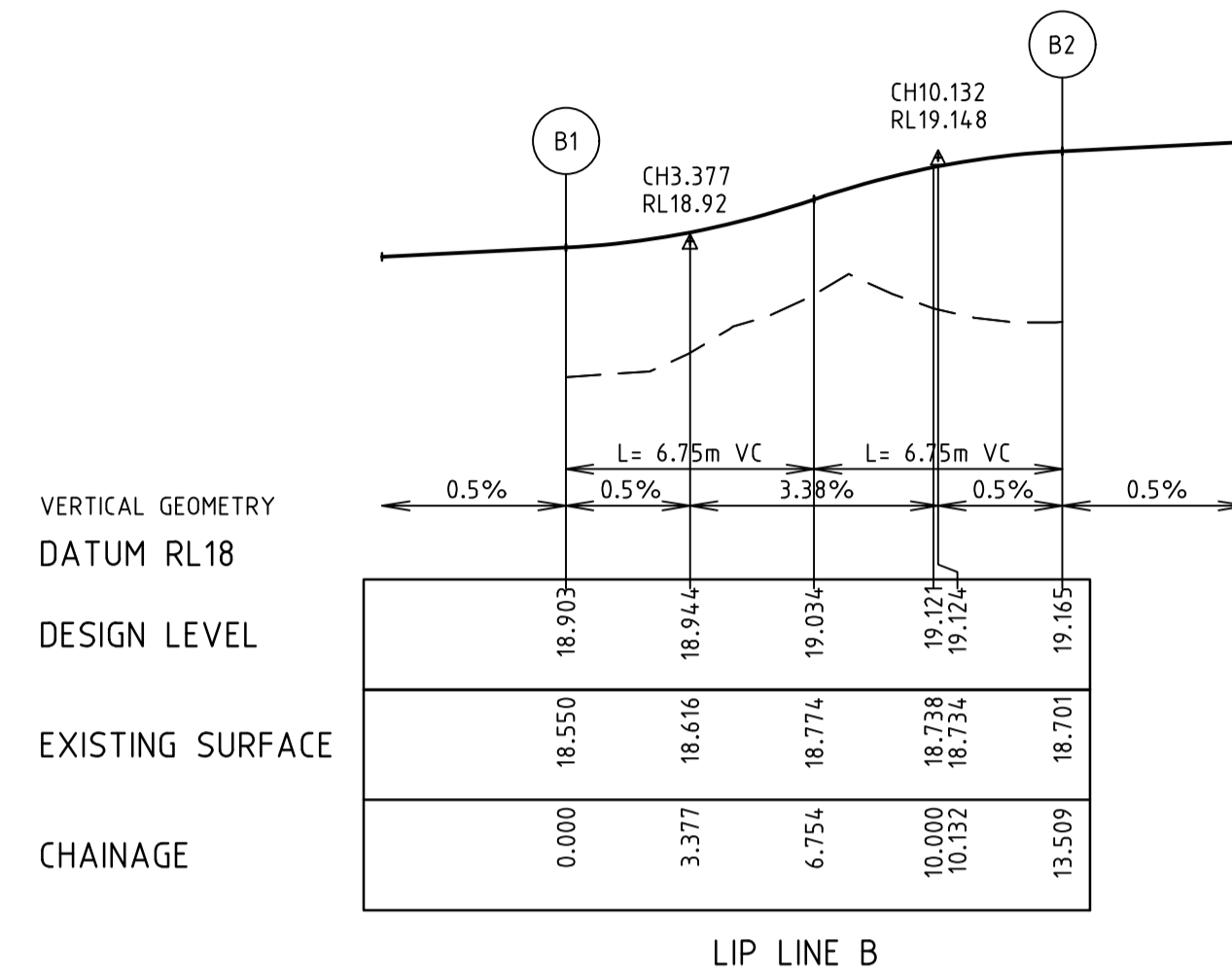
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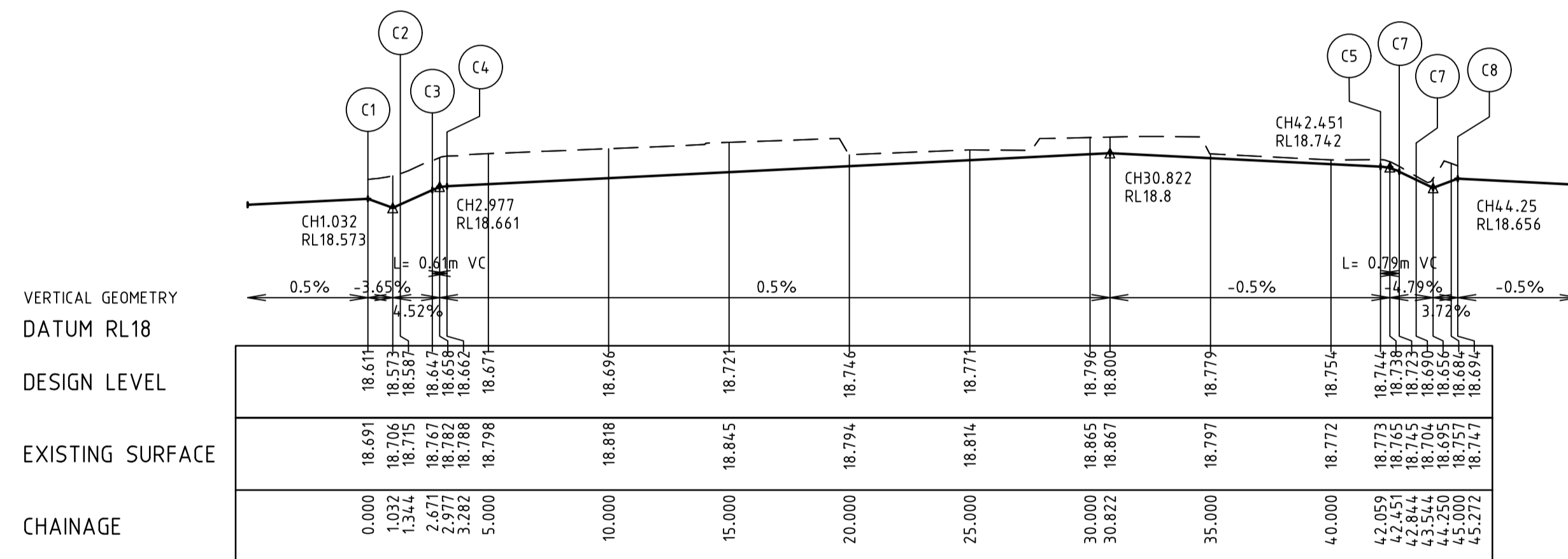
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—	DESIGN LINE
—	FUTURE DESIGN LINE



LIP LINE A



LIP LINE B



LIP LINE C

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

Alignment A

Point no	Easting	Northing	RL
A1	292466.726	5800716.444	19.059
A2	292454.951	5800713.399	18.903

Curve no	L	Radius	Arc	A	B	X	Y	L	Mid point RL
A1 - A2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	18.998

Alignment B

Point no	Easting	Northing	RL
B1	292449.695	5800716.495	18.903
B2	292446.650	5800728.270	19.165

Curve no	L	Radius	Arc	A	B	X	Y	L	Mid point RL
B1 - B2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	19.034

ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	292484.006	5800616.428	18.611
C2	292483.907	5800617.686	18.587
C3	292483.063	5800618.710	18.647
C4	292483.018	5800619.282	18.662
C5	292502.698	5800652.693	18.744
C6	292503.383	5800652.870	18.723
C7	292503.986	5800652.515	18.690
C8	292505.492	5800652.904	18.694

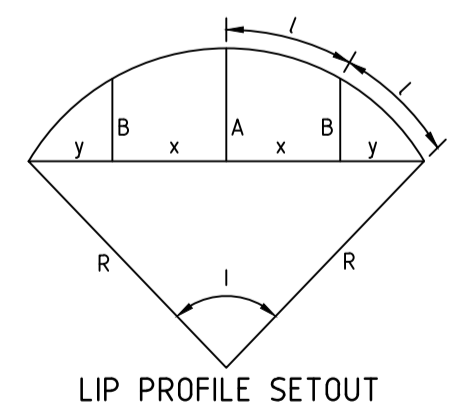
CURVE NO	L	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
C1 - C2	70.000	1.100	1.344	0.199	0.148	0.331	0.300	0.336	18.586
C3 - C4	70.000	0.500	0.611	0.090	0.067	0.150	0.136	0.153	18.658
C5 - C6	90.000	0.500	0.785	0.146	0.108	0.191	0.162	0.196	18.738
C7 - C8	90.000	1.100	1.728	0.322	0.238	0.421	0.357	0.432	18.662

ASSEMBLY STREET DESIGN LINE

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	0.000	292527.038	5800684.459	18.890	IP	300°29'56.97"		
2	130.403	292414.678	5800750.642		IP	300°29'56.97"		

FLOURISH WAY DESIGN LINE

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	0.000	292386.371	5800602.977	18.401	IP	30°29'56.97"		
2	141.600	292458.236	5800724.985	18.954	IP	30°29'56.97"		



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Places Victoria

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Places Victoria
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Docklands, VIC - 3008

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Designed
B.Cheung

Drawn
N.Shrestha

Checked
L.Vieyra

Authorised
M.Bouwmeester

Date
August 2016

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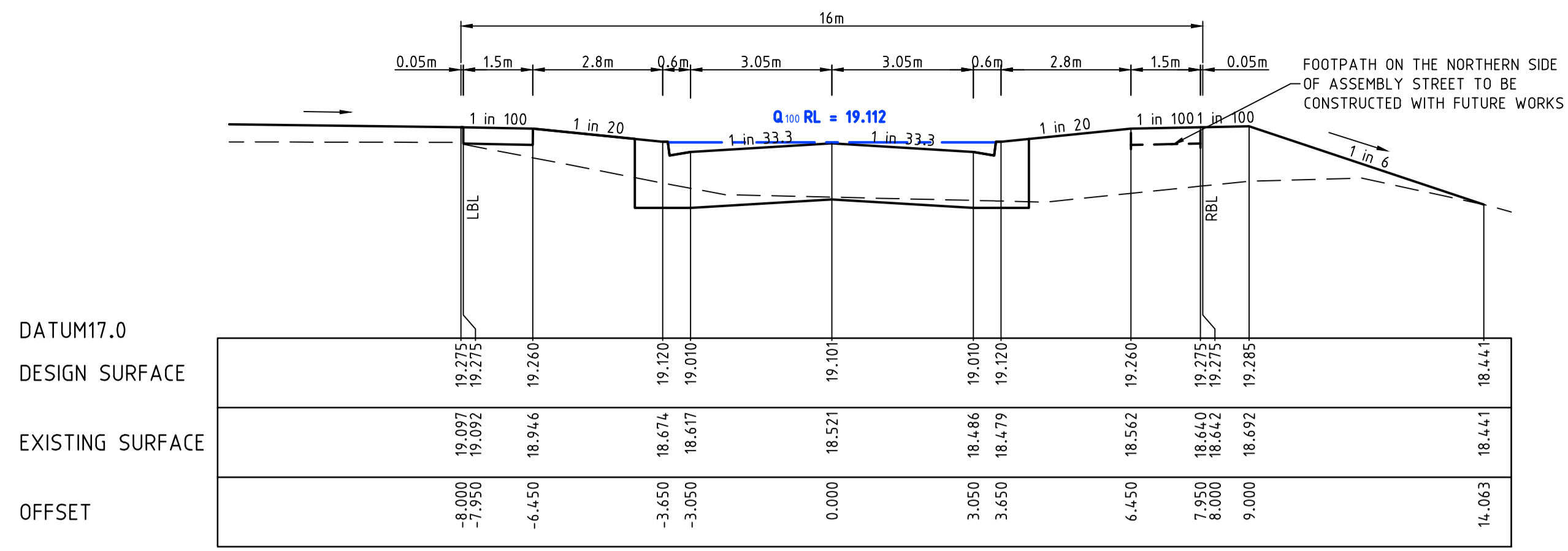
Riverwalk
Stage 5
Wyndham City Council
Roadworks and Drainage
Lip Profiles &
Setout Information
Drawing No. 1932E-05-05 **Rev 0**
Sheet No. 5 of 11

For Construction

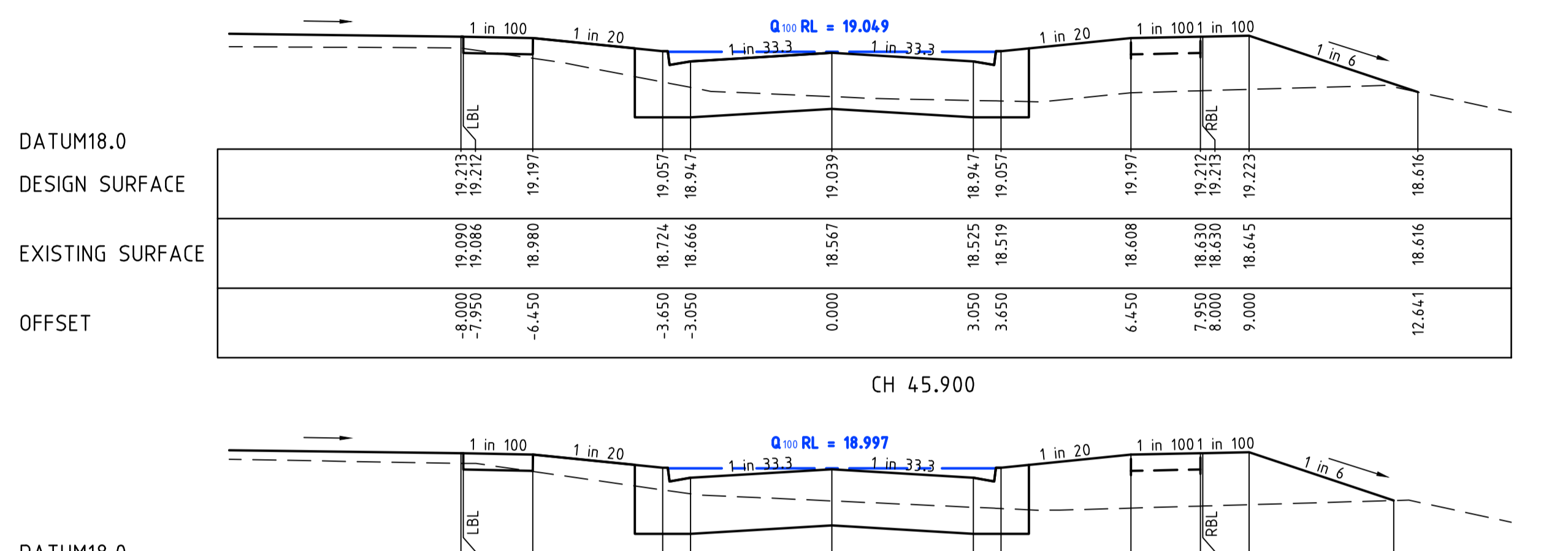
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STRUCTURAL FILL REQUIRED UNDER
PAVEMENT AND FOOTPATHS WHERE
CONSTRUCTED ABOVE EXISTING SURFACE

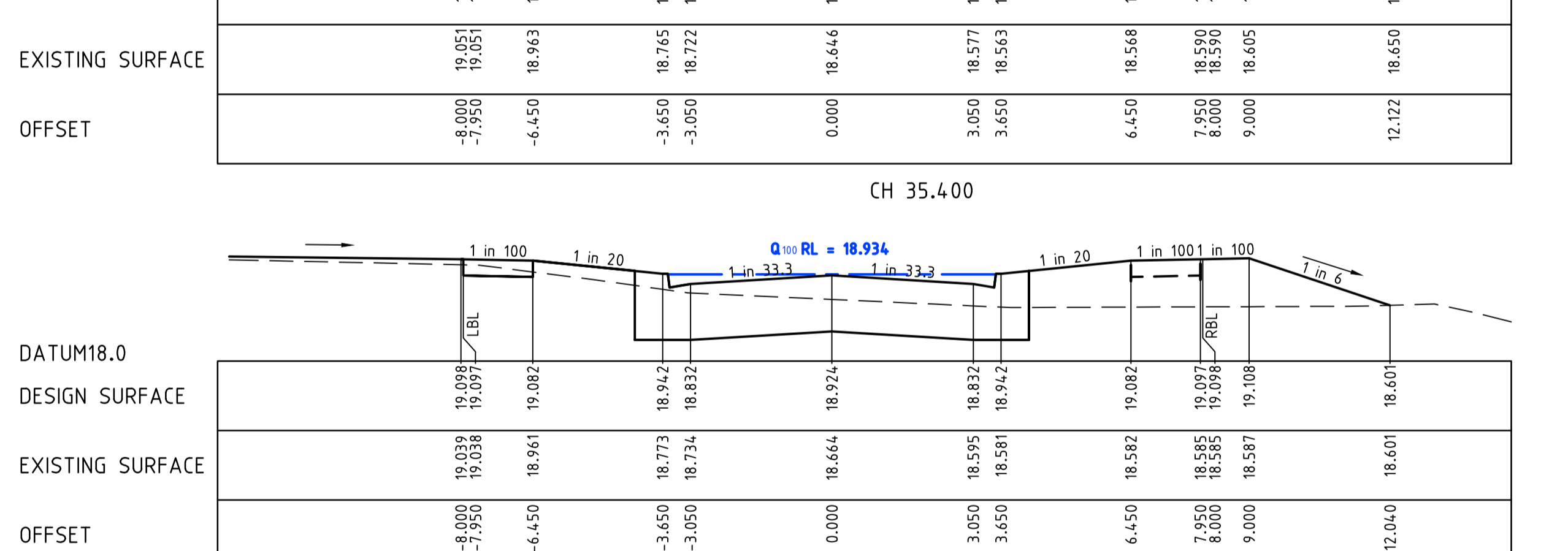
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---	DESIGN LINE
---	FUTURE DESIGN LINE



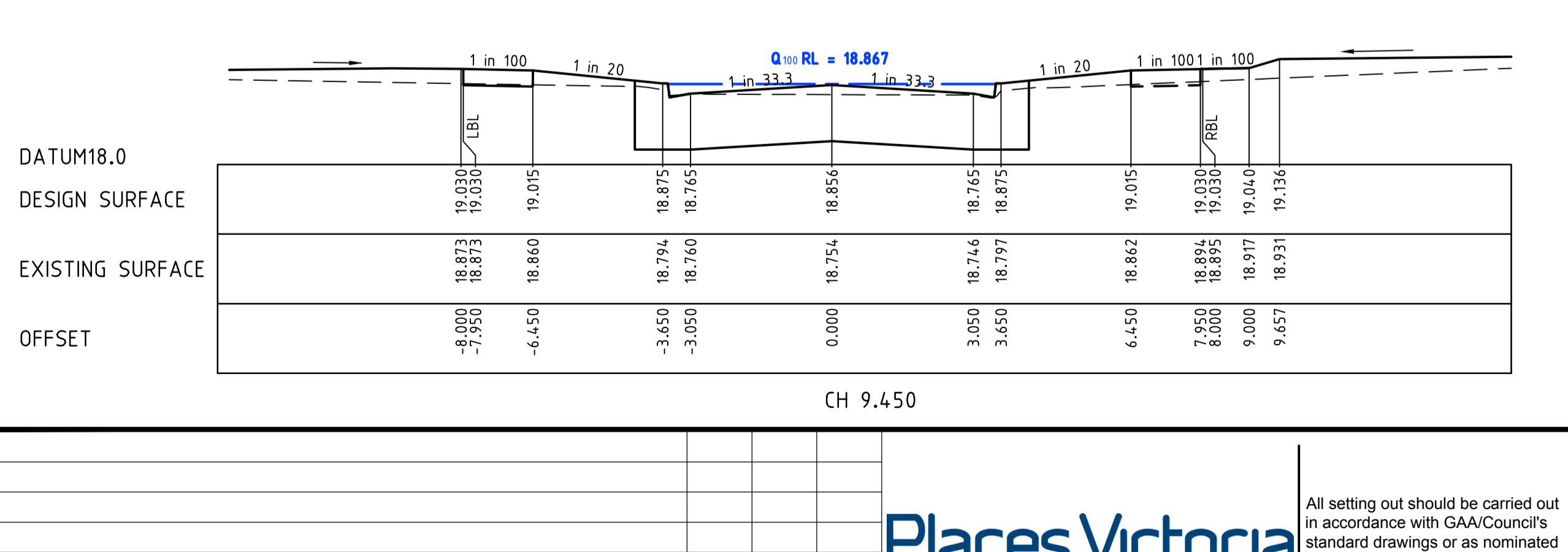
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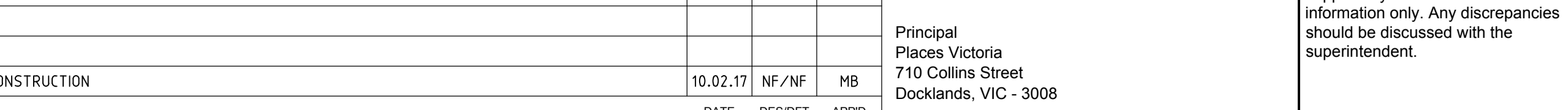
CH 45.900



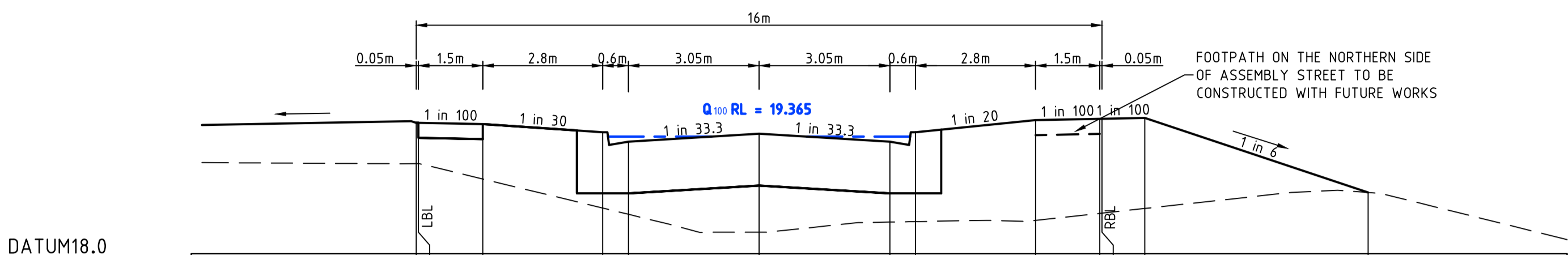
CH 35.400



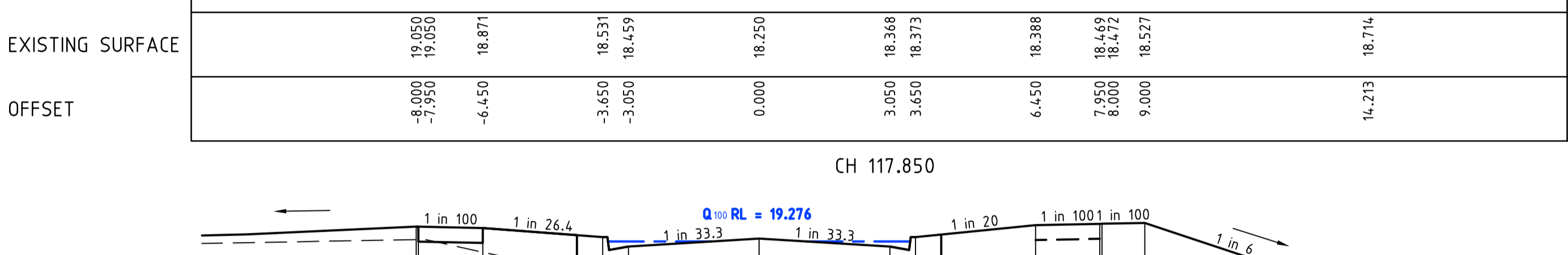
CH 22.900



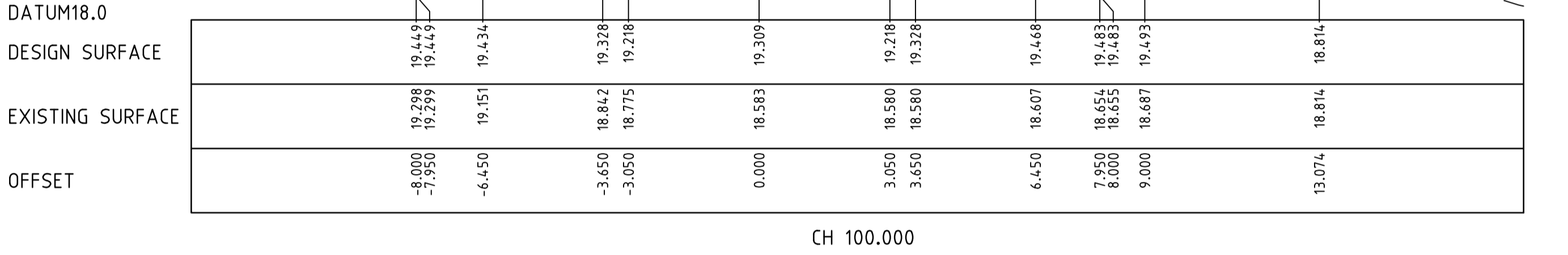
CH 9.450



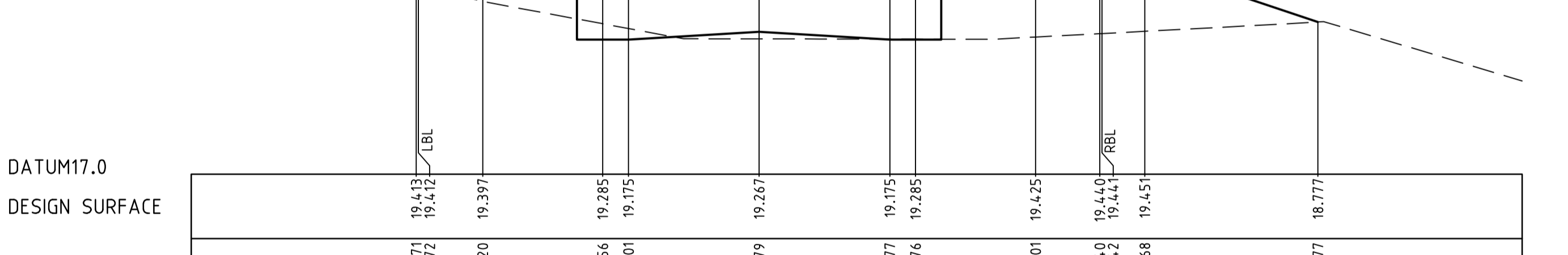
CH 117.850



CH 100.000



CH 91.500



CH 68.200

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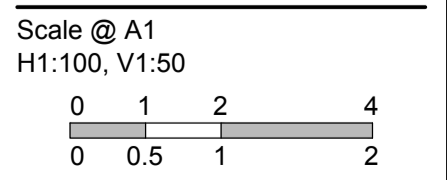
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Riverwalk
Stage 5
Wyndham City Council
Roadworks and Drainage
Cross Sections: Assembly Street

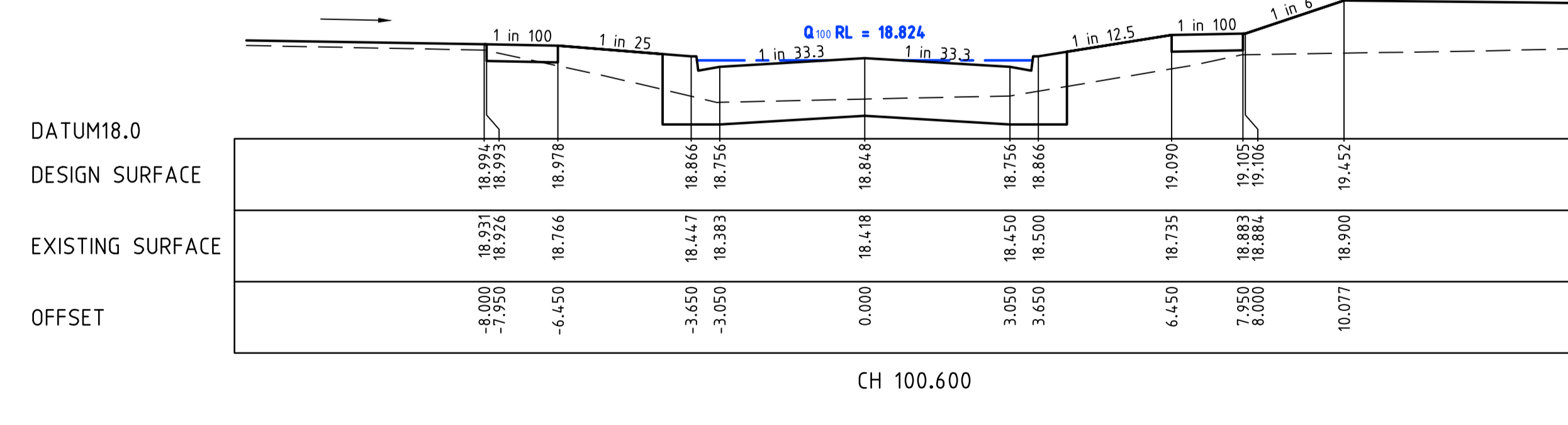
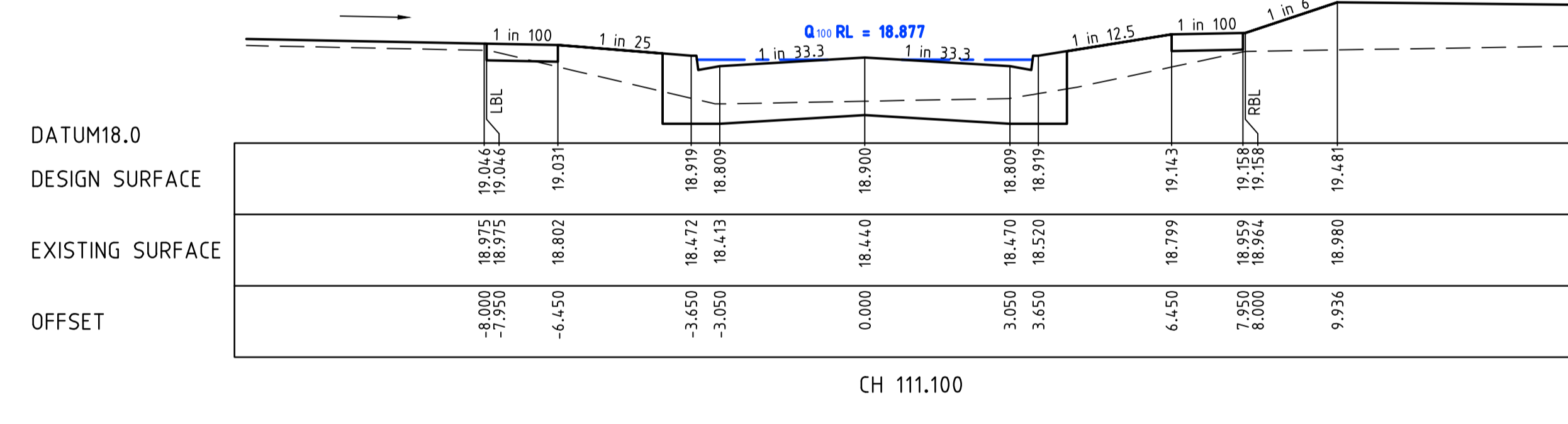
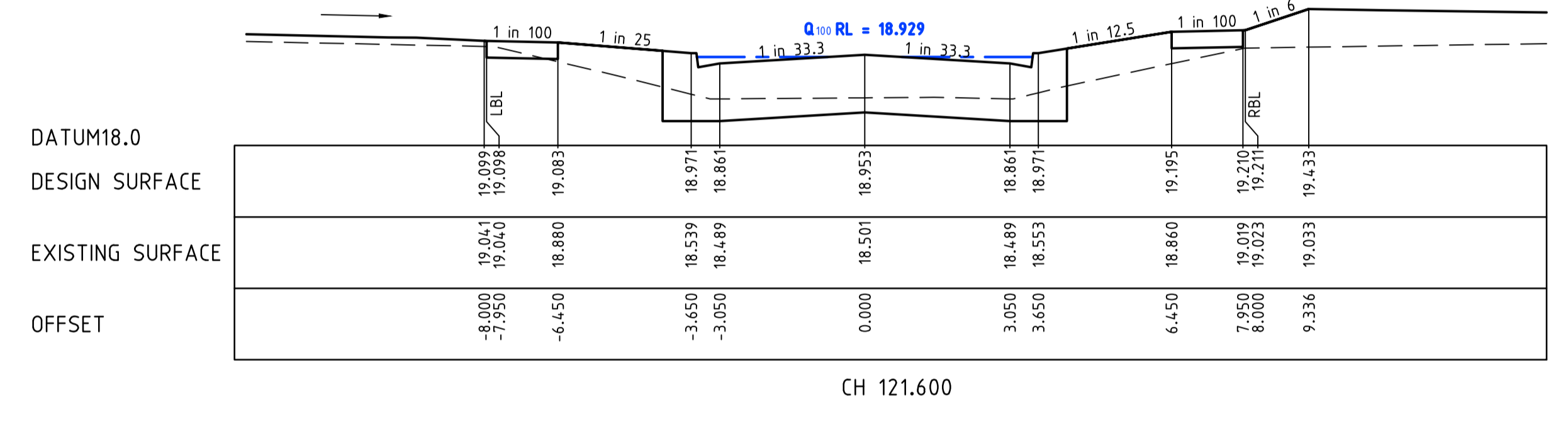
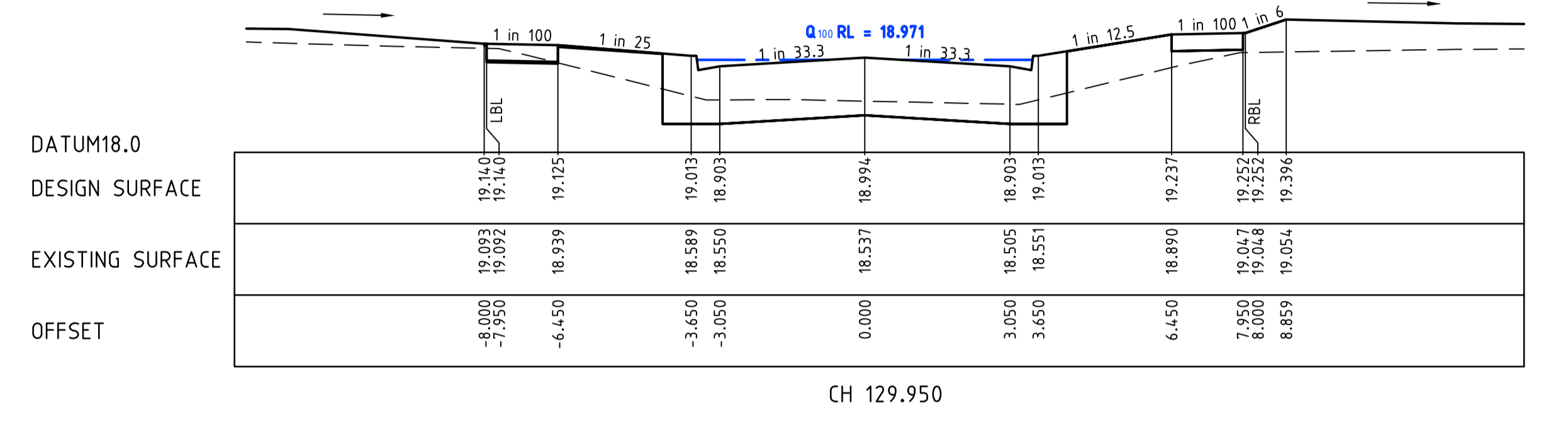
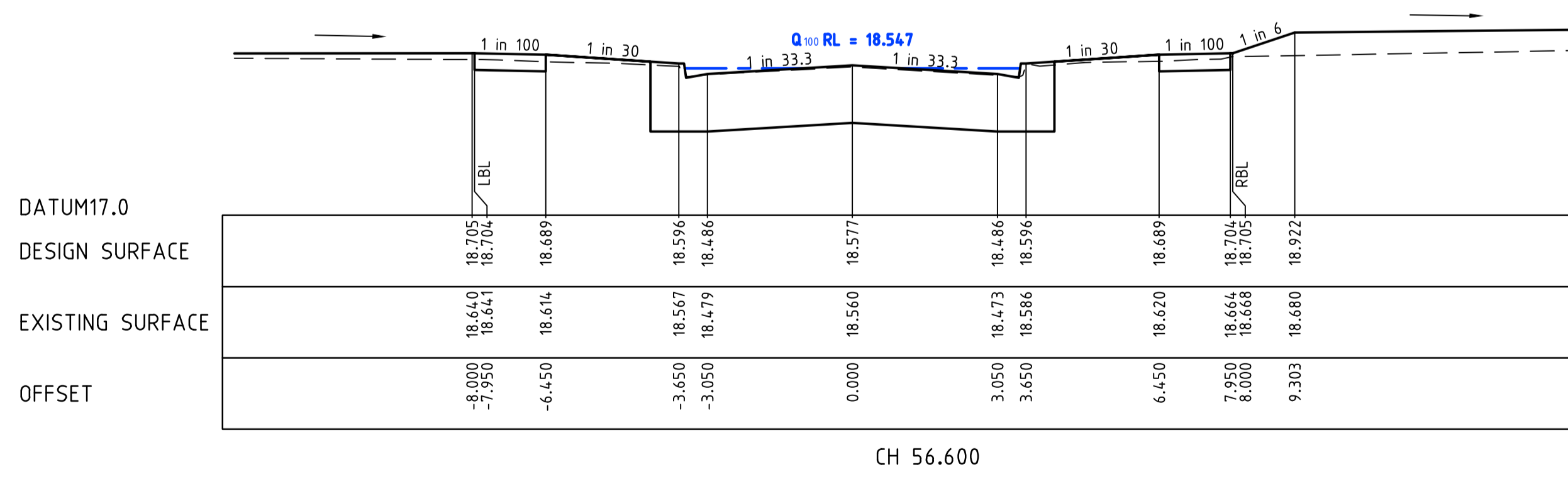
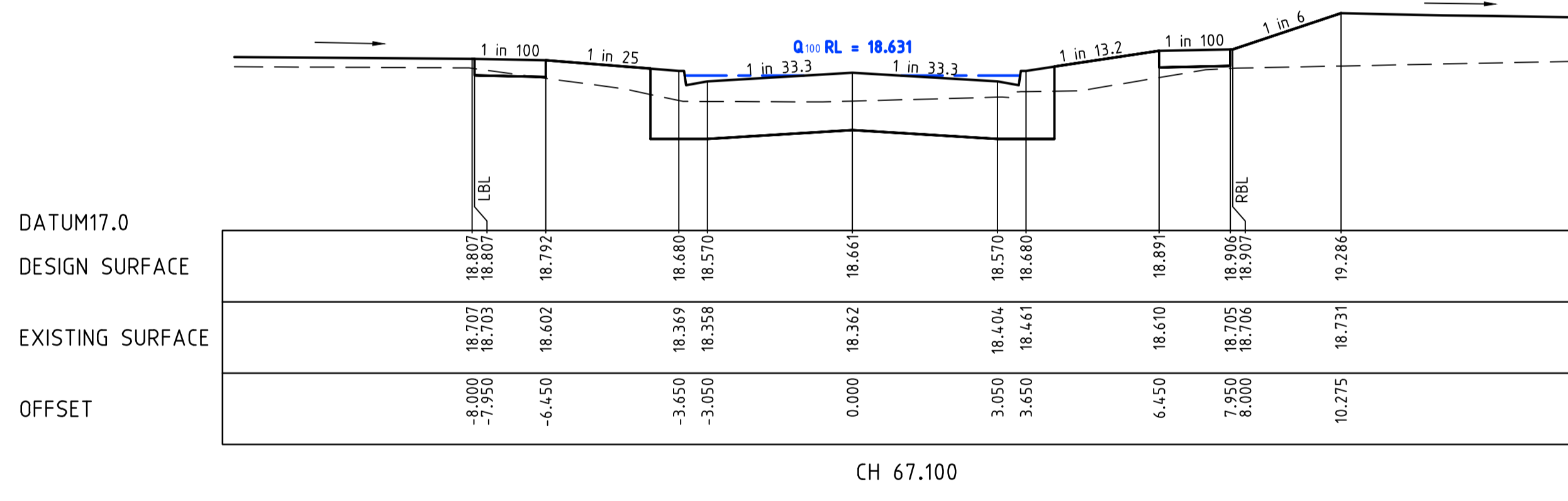
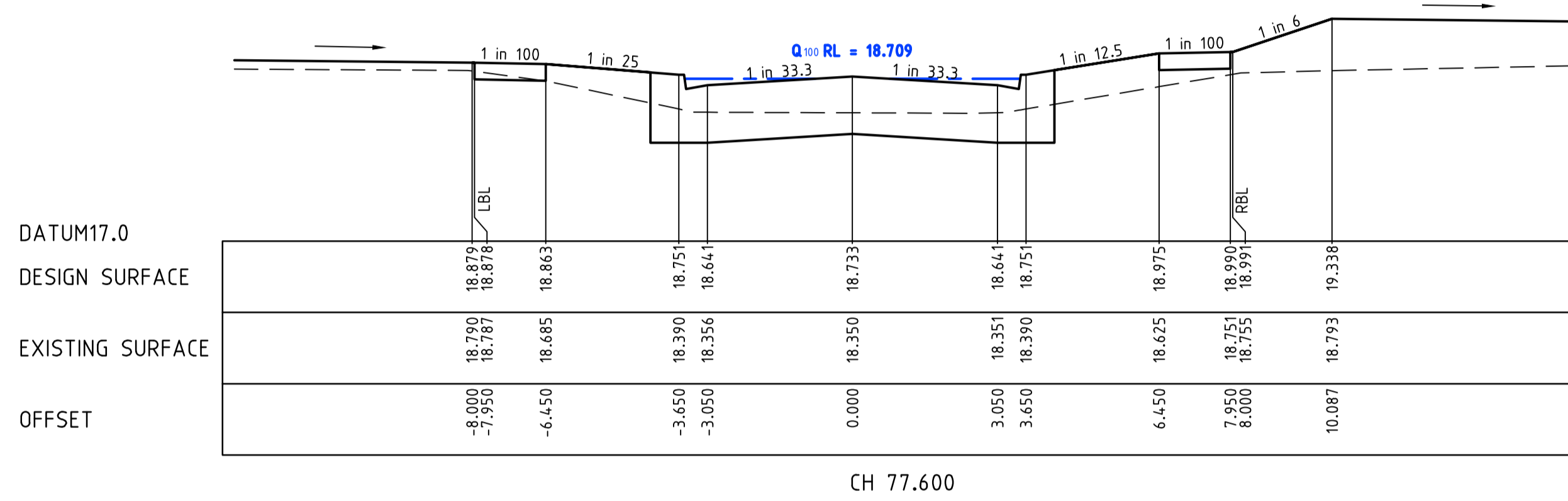
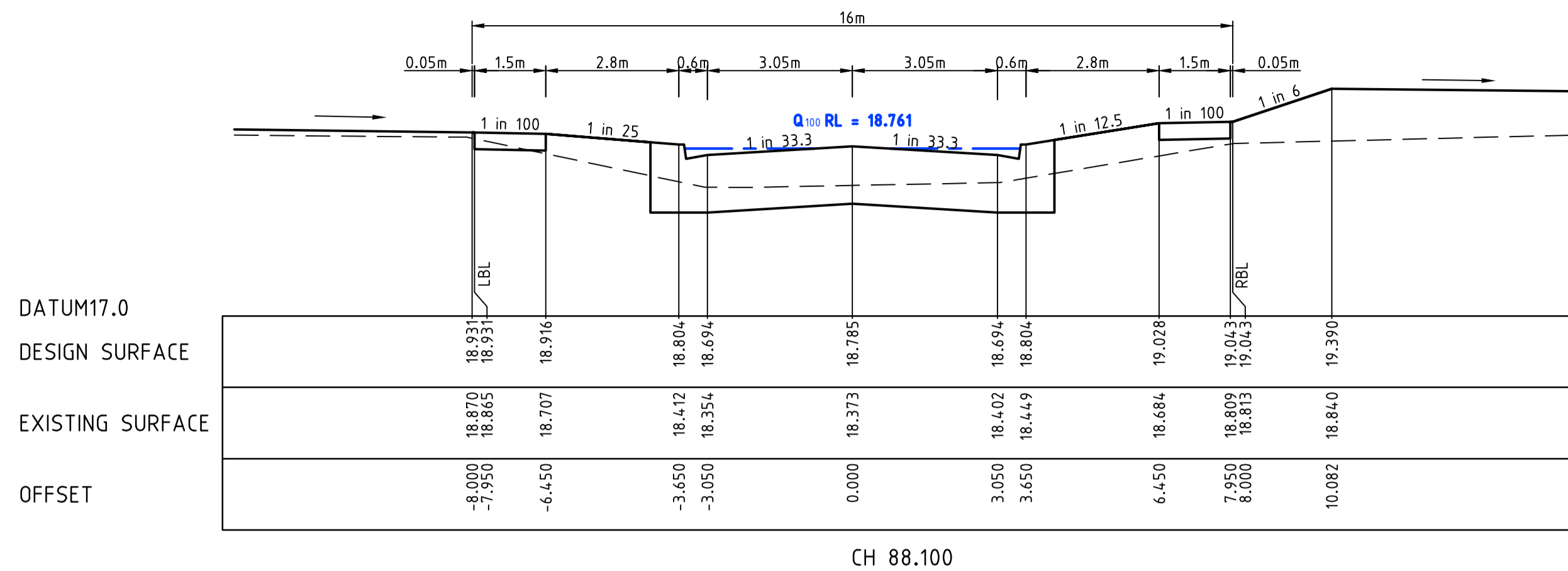
Drawing No. 1932E-05-07
Sheet No. 7 of 11

Rev 0

For Construction

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

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



**ISSUED FOR
CONSTRUCTION**

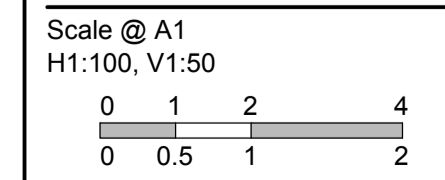
0	ISSUED FOR CONSTRUCTION	10.02.17	NF/NF	MB
REVISION	DATE	DES/DFT	APPD	

Places Victoria

Principal
Places Victoria
710 Collins Street
Docklands, VIC - 3008

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



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Riverwalk
Stage 5
Wyndham City Council
Roadworks and Drainage
Cross Sections: Flourish Way

Drawing No. 1932E-05-08
Sheet No. 8 of 11

Rev 0

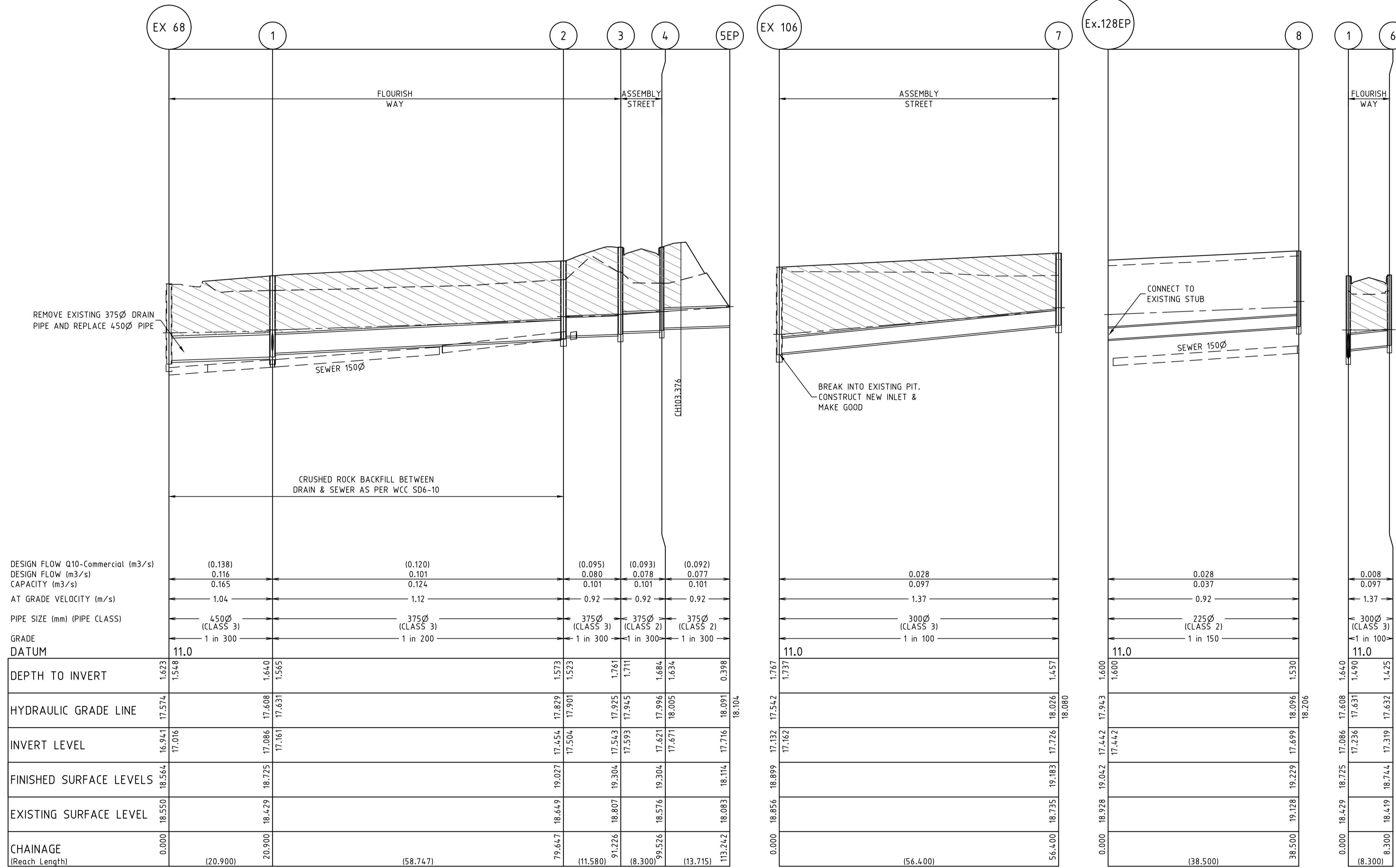
For Construction

PIT NUMBER	TYPE	PIT SCHEDULE						F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
		INTERNAL		INLET		OUTLET					
		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)				
Ex 68	Ex SIDE ENTRY PIT			450	17.016	Ex525	16.941	18.564	1.623		REMOVE EXISTING PIPE AND REPLACE 450D _i PIPE
1	SIDE ENTRY PIT	600	900	375	17.161	450	17.086	18.725	1.64	GAA EDCM601	
2	SIDE ENTRY PIT	600	900	300	17.236	375	17.454	19.027	1.573	GAA EDCM601	
3	SIDE ENTRY PIT	600	900	375	17.504	375	17.543	19.304	1.761	GAA EDCM601	
4	SIDE ENTRY PIT	600	900	375	17.593	375	17.621	19.304	1.684	GAA EDCM601	
5EP	ENDPIPE					375	17.716	18.114	0.398		INSTALL ROCK BEACHING AT INLET AS PER GAA Figure 019 FOR SEDIMENT CONTROL
Ex 106	Ex SIDE ENTRY PIT	600	900	300	17.162	Ex300	17.132	18.899	1.767		CONSTRUCT NEW INLET INTO EXISTING PIT AND MAKE GOOD (ADJUST COVER IF NECESSARY)
7	SIDE ENTRY PIT	600	900			300	17.726	19.183	1.457	GAA EDCM601	
Ex 128EP	Ex ENDPIPE			225	17.442	Ex225	17.442	19.042	1.6		CONNECT TO EXISTING ENDPIPE
8	JUNCTION PIT	600	600			225	17.699	19.229	1.53	GAA EDCM605	
6	SIDE ENTRY PIT	600	900			300	17.319	18.744	1.425	GAA EDCM601	

NOTE: XY SETOUT TO PIT CENTRE
SETOUT LEVEL TO PIT COVER LEVEL

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

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



DESIGN FLOW Q10-Commercial (m ³ /s)	(0.138)	(0.120)	(0.095)	(0.093)	(0.092)
DESIGN FLOW (m ³ /s)	0.116	0.101	0.080	0.078	0.077
CAPACITY (m ³ /s)	0.165	0.124	0.101	0.101	0.101
AT GRADE VELOCITY (m/s)	1.04	1.12	0.92	0.92	0.92
PIPE SIZE (mm) (PIPE CLASS)	450Ø (CLASS 3)	375Ø (CLASS 3)	375Ø (CLASS 3)	375Ø (CLASS 2)	375Ø (CLASS 2)
GRADE	1 in 300	1 in 200	1 in 300	1 in 300	1 in 300
DATUM	11.0				
DEPTH TO INVERT	1.623	1.548	1.573	1.523	1.761
HYDRAULIC GRADE LINE	17.574	17.574	17.829	17.901	17.925
INVERT LEVEL	16.941	17.016	17.454	17.504	17.543
FINISHED SURFACE LEVELS	18.564	18.564	19.027	19.027	19.304
EXISTING SURFACE LEVEL	18.550	18.429	18.649	18.807	18.807
CHAINAGE (Reach Length)	0.000	(20.900)	79.647	91.226	97.526
			(11.580)	(8.300)	(13.715)

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REVISION	DATE	DES/DFT	APPD
0	10.02.17	NF/NF	MB

Places Victoria

Principal
Places Victoria
710 Collins Street
Docklands, VIC - 3008

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Designed
B.Cheung

Drawn
N.Shrestha

Checked
L.Vieyra

Authorised
M.Bouwmeester

Date
August 2016

Scale @ A1
H1:500, V1:50

0 5 10 20
0 0.5 1 2

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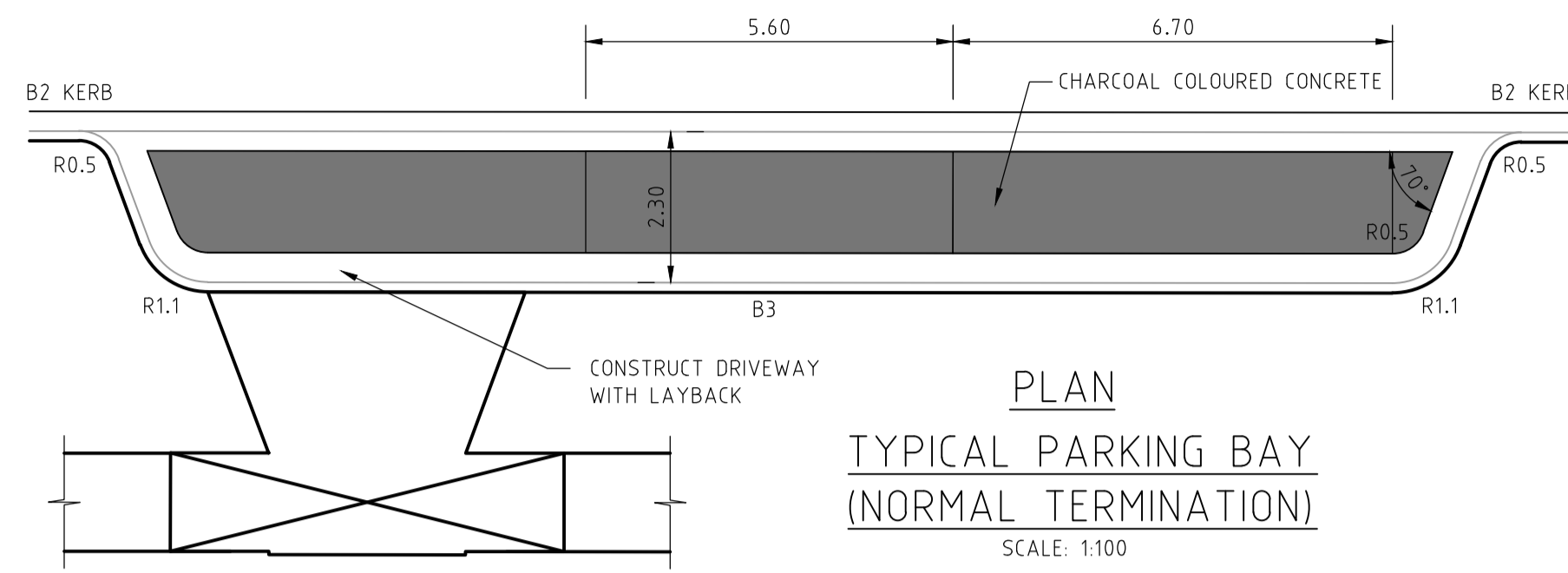
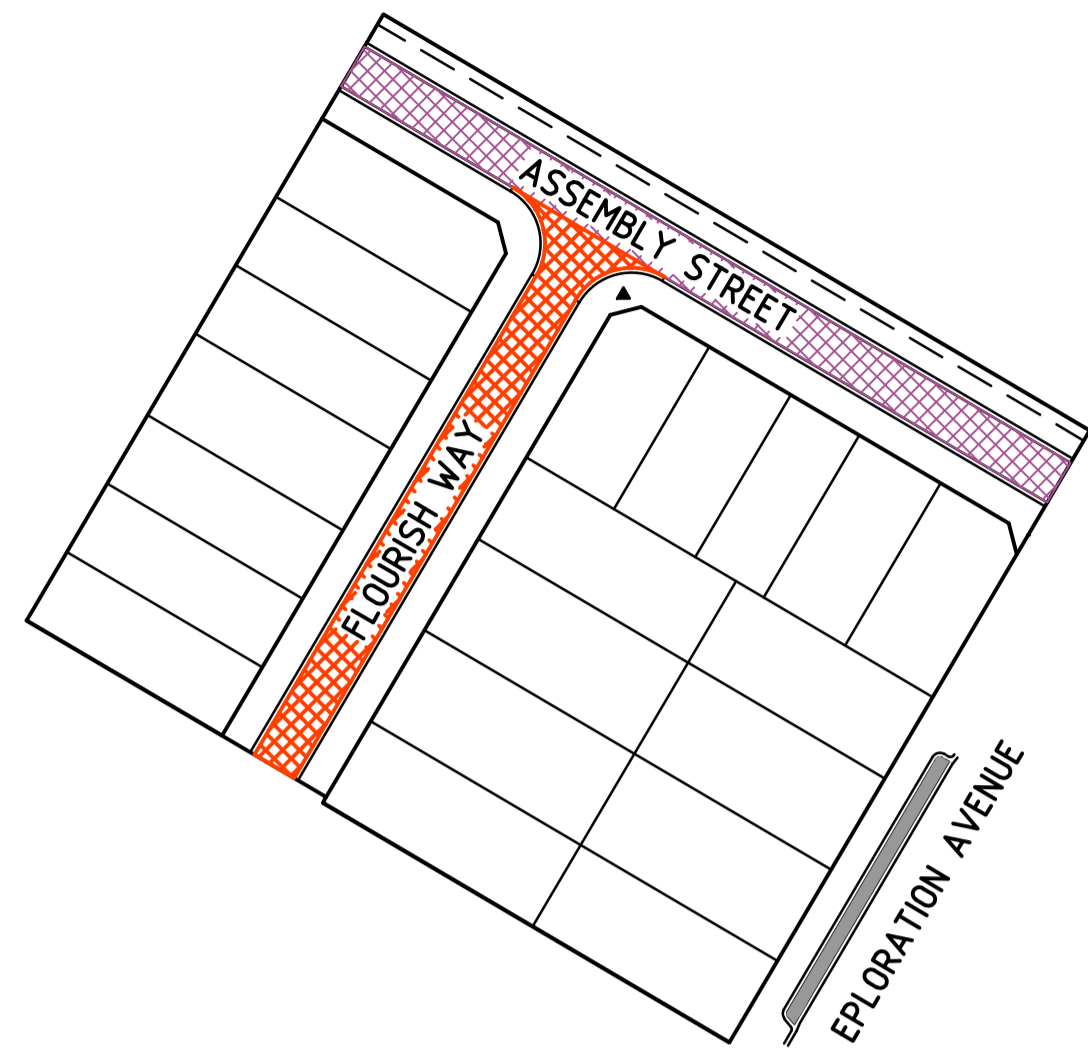
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Riverwalk
Stage 5
Wyndham City Council
Roadworks and Drainage
Drainage Longitudinal Sections & Pit Schedule
Drawing No. 1932E-05-09
Rev 0

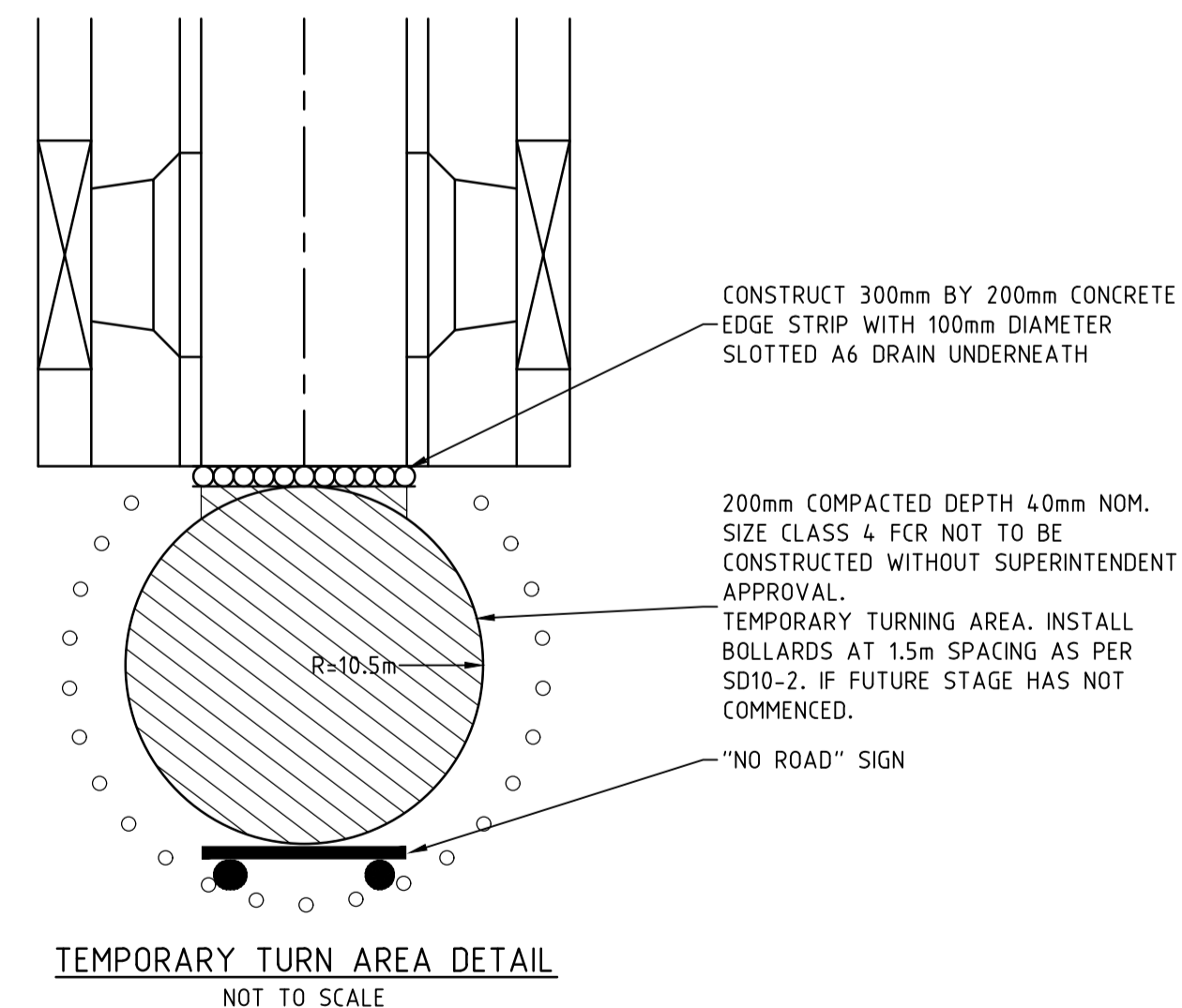
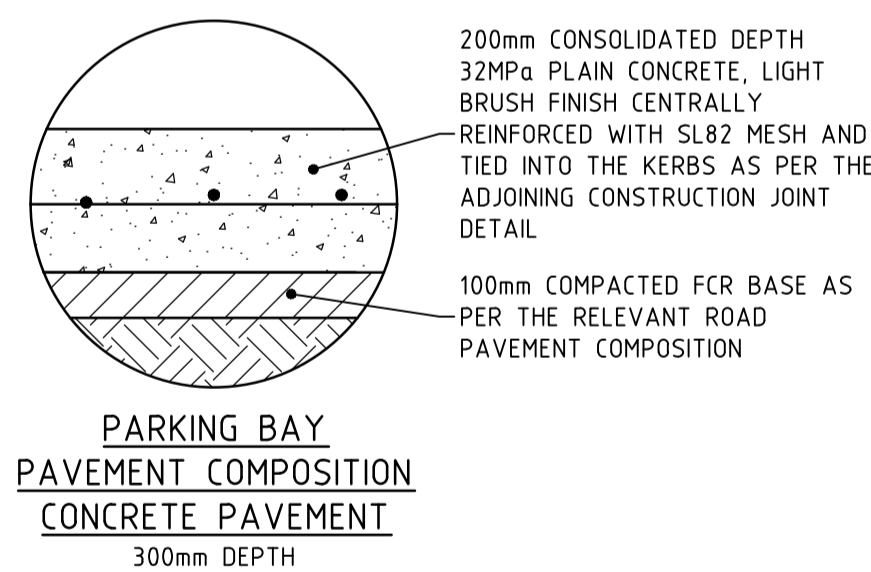
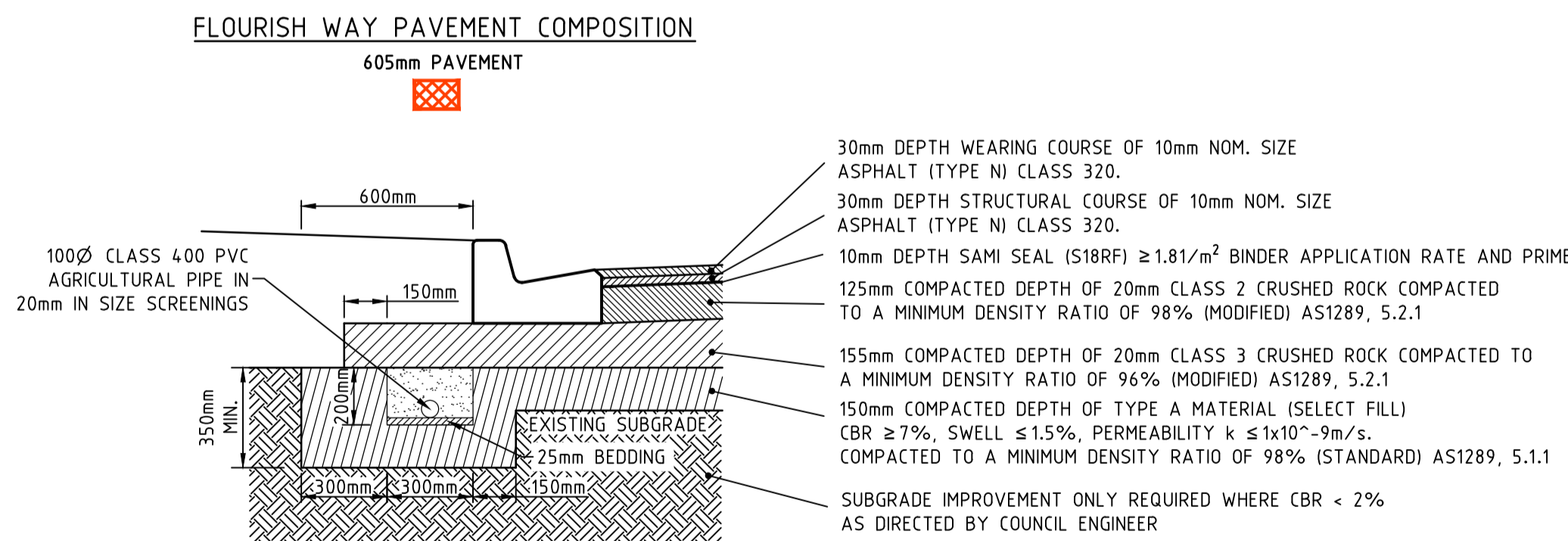
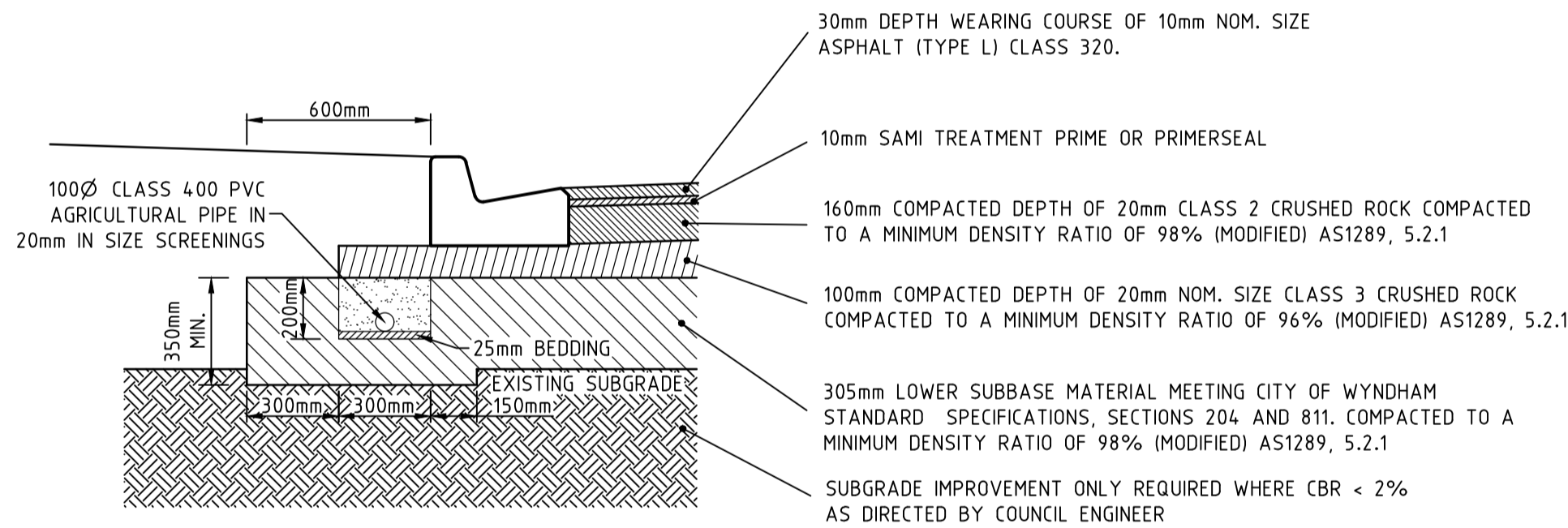
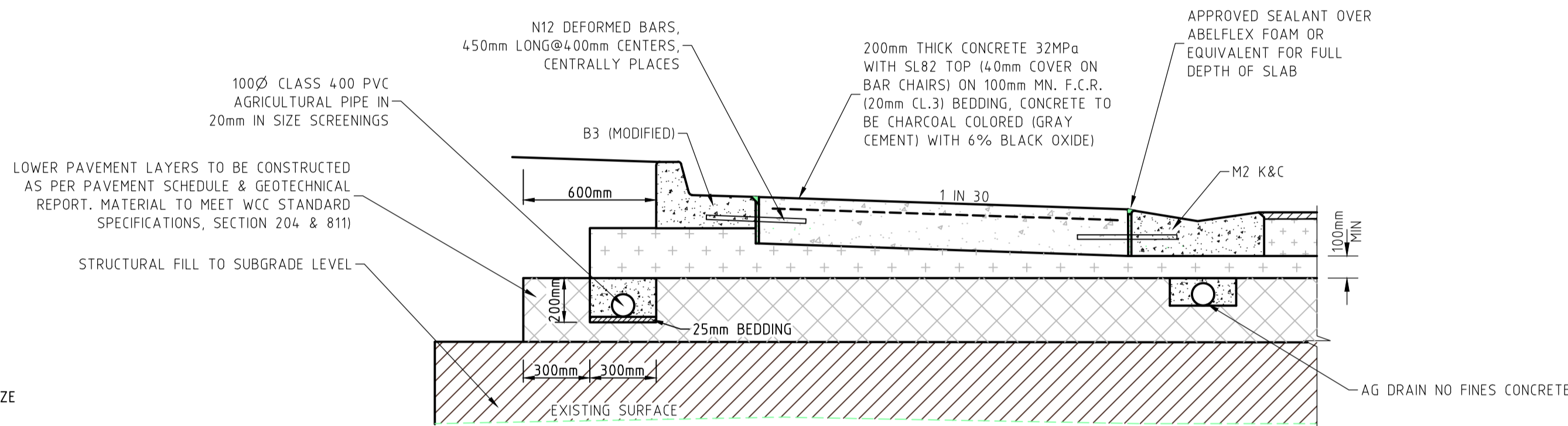
Sheet No. 9 of 11

For Construction



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.

LEGEND:
 605mm PAVEMENT
 500mm PAVEMENT
 PARKING BAY



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 ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
- THE CONTRACTOR SHALL:
 - COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
 - NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
 - ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
- THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY COUNCIL'S SUPERVISING OFFICER.
- ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEDS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADI 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 WHERE POSSIBLE 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 SERVING 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 (BRPM) 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 193 m
TOTAL LENGTH OF DRAINS CONSTRUCTED IS 209 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 CONTRACTOR'S ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-2007, LOADS ON BURIED PIPES.
- CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPLACED & RELIAD AT THE CONTRACTOR'S COST.

ISSUED FOR CONSTRUCTION

REVISION	DATE	DES/DFT	APP'D
0	10.02.17	NF/NF	MB

Places Victoria

Principal
Places Victoria
710 Collins Street
Docklands, VIC - 3008

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

Scale @ A1
AS SHOWN
0 5 10 20

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Riverwalk
Stage 5
Wyndham City Council
Roadworks and Drainage
General Notes & Details

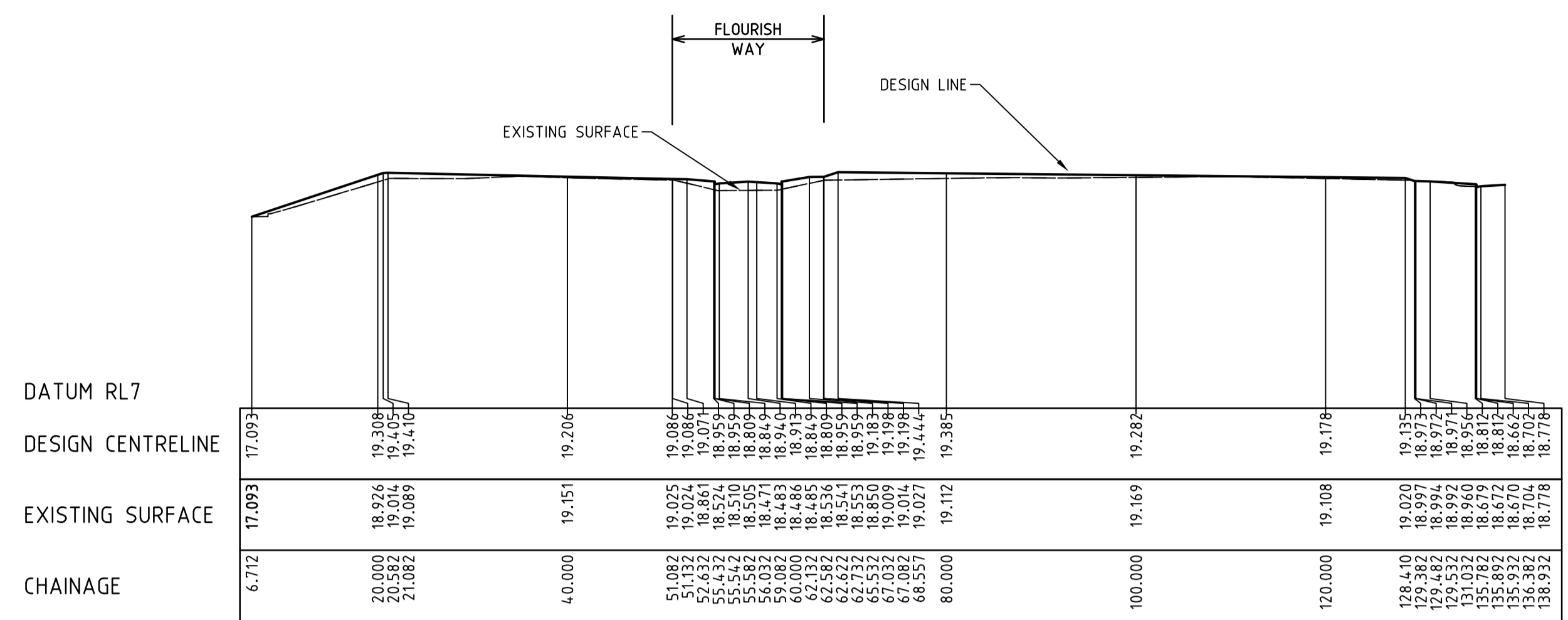
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Sheet No. 10 of 11

Rev 0

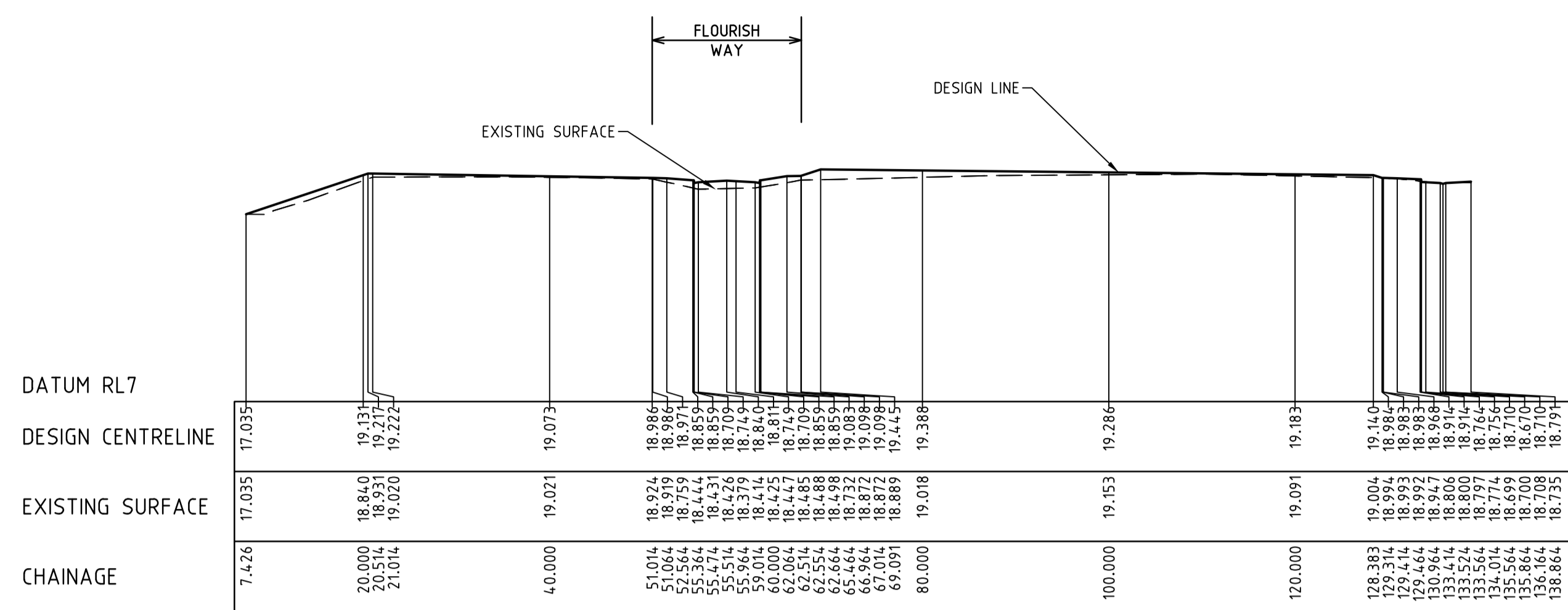
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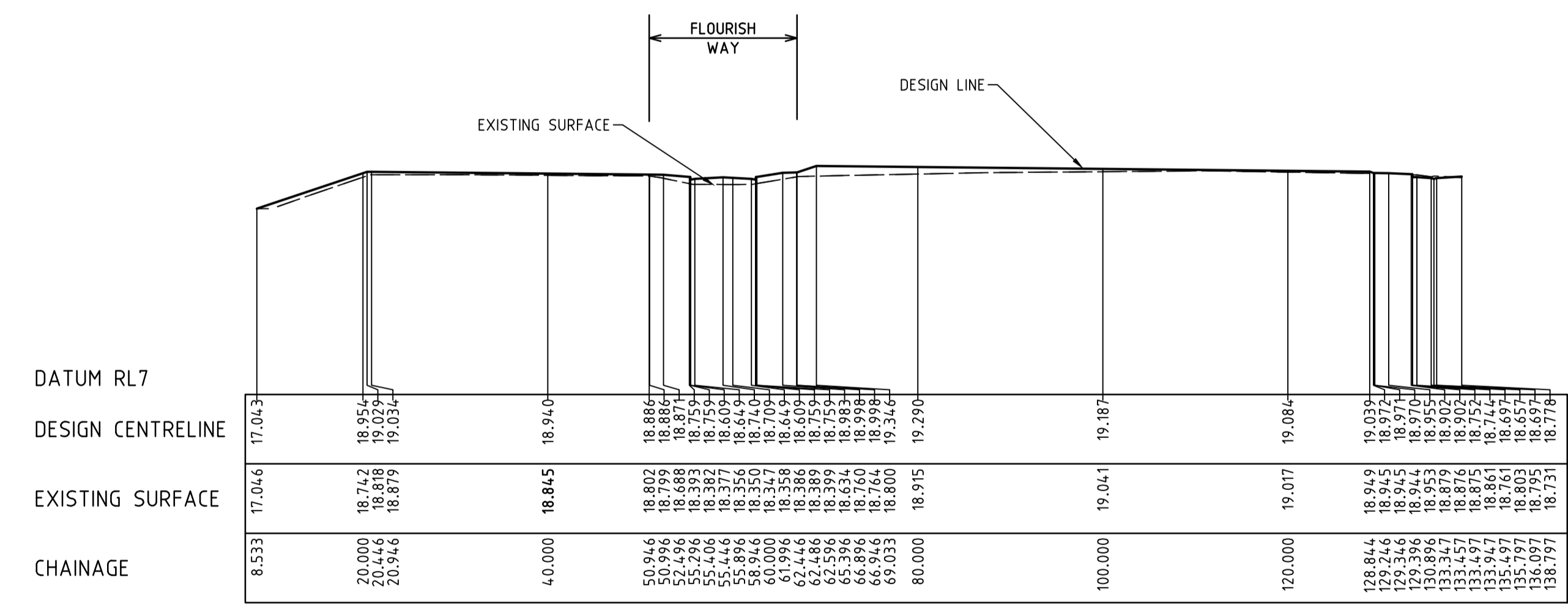
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—	DESIGN LINE
---	FUTURE DESIGN LINE



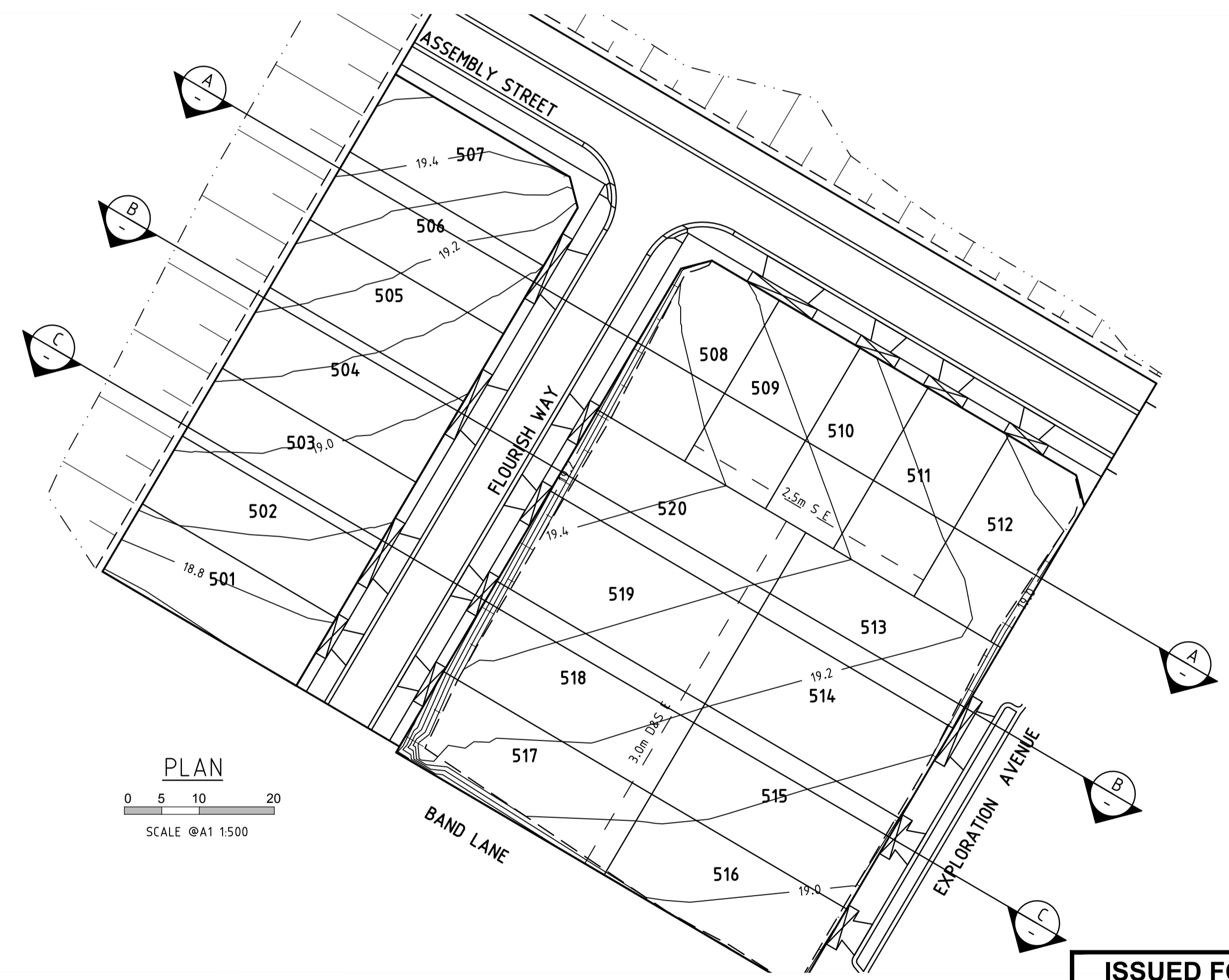
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SCALE @A1 H1:500 V1:250



LONGITUDINAL SECTION B-B
SCALE @A1 H1:500 V1:250



LONGITUDINAL SECTION C-C
SCALE @A1 H1:500 V1:250



PLAN
SCALE @A1 1:500

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Places Victoria
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Docklands, VIC - 3008

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Drawn
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Date
August 2016

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Riverwalk
Stage 5
Wyndham City Council
Roadworks and Drainage
Earthwork Cross Section

Drawing No. 1932E-05-11
Sheet No. of

Rev 0

For Construction

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	New works will be constructed adjacent to live traffic when abutting existing stages.	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	Potential risk from culverts under construction and height / fall hazards	Contractor	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	Inadequate drivers response time.	Road Authority	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	Potential for drivers / riders to strike signs and street lights	Road Authority	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	Potential vehicle conflict within clear zone	Road Authority	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	Potential fall hazard during maintenance, by vehicles and pedestrians	Relevant Authority	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
Drainage													
Operational	DR	#N/A	Grated Pits	Trip/fall hazard with large spaced grate	Relevant Authority	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	Potential for pit failure	Relevant Authority	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	Potential for falling from height	Relevant Authority	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	Children playing in large pipes / watercourses and access for maintenance	Relevant Authority	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	Lack of safe access for maintenance	Relevant Authority	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	Lack of safe entry for maintenance	Relevant Authority	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	Lack of safe access for maintenance	Relevant Authority	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	Authority
Sewer													
Construction	SE	#N/A	Sewer Manhole located adjacent to Retaining Wall Alignment	Falling from height during construction or commissioning of adjacent sewer manholes	Contractor	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	Lack of safe entry for maintenance	Relevant Authority	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	Lack of safe access for maintenance	Relevant Authority	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	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance	Design pump station in location for easy access	N	2	4	8	Authority
Electricity													
Operational	ES	#N/A	Electrical Design	Location of assets within clear zones e.g. pits/ substations	Relevant Authority	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
Telstra													
Operational	TE	#N/A	Telstra Design	Location of assets within clear zones e.g. pits	Relevant Authority	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
Water													
Operational	WA	#N/A	Water Design	Location of assets within clear zones e.g. pits/ substations	Relevant Authority	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
Gas													
Operational	GA	#N/A	Gas Design	Location of assets within clear zones e.g. pits/ substations	Relevant Authority	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
												0	

ISSUED FOR CONSTRUCTION

0	ISSUED FOR CONSTRUCTION	10.02.17	NF/NF	MB
REVISION	DATE	DES/DFT	APP'D	

Places Victoria

Principal
Places 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
August 2016

Scale @ A1
H1:1000

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Riverwalk
Stage 5
Wyndham City Council
Roadworks and Drainage
Safety In Design

Drawing No. 1932E-05-85 **Rev 0**

Sheet No. 11 of 11

For Construction

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