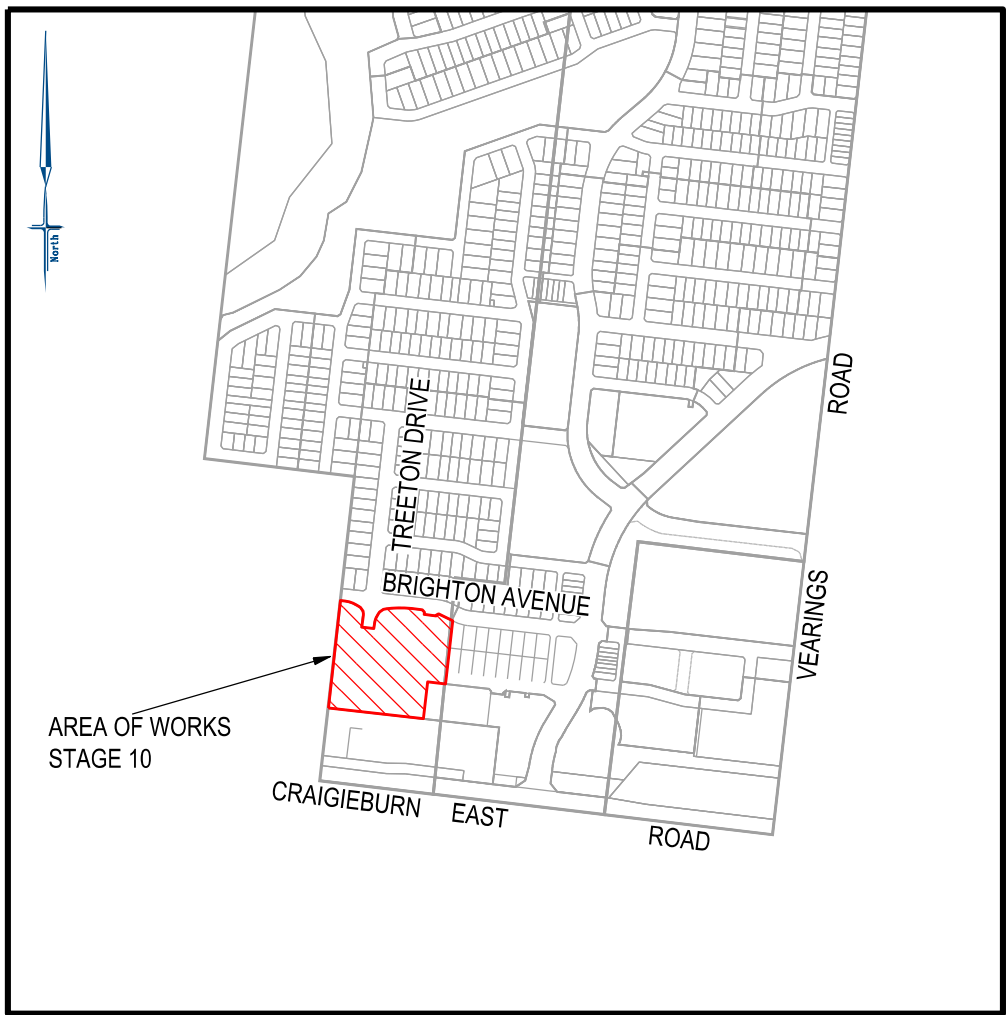




LOCALITY PLAN
SCALE 1:20000

SHEET INDEX

SHT No.	VER	DESCRIPTION
1	P3	DETAIL PLAN No.1, LOCALITY PLAN, SERVICES SCHEDULE & SHEET INDEX
2	P3	INTERSECTION DETAIL No.1
3	P3	INTERSECTION DETAIL No.2
4	P3	WASHINGTON AVENUE - CANDLEBARK ROAD - LONGITUDINAL SECTION
5	P3	BROAD WAY - LONGITUDINAL SECTION
6	P3	PALACE WALK - LONGITUDINAL SECTION & CROSS SECTIONS
7	P3	BROAD WAY - CROSS SECTION
8	P3	WASHINGTON AVENUE - CROSS SECTION
9	P3	CANDLEBARK ROAD - CROSS SECTION
10	P3	DRAINAGE LONGITUDINAL SECTION No.1
11	P3	DRAINAGE LONGITUDINAL SECTION No.2
12	P3	DRAINAGE LONGITUDINAL SECTION No.3 & PIT SCHEDULE
13	P3	SIGNAGE & LINEMARKING PLAN & GENERAL NOTES
14	P3	TYPICAL SECTIONS & PAVEMENT DETAILS

WARNING

BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

ATTENTION TO CONTRACTOR

- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.
- Contractor to ensure that the site is pegged and or set out checked by the licenced surveyor responsible for certifying the Plan of Subdivision prior to underground infrastructure being installed.
- Where concrete works abut a sewer access chamber surround or similar structure, an expansion joint of approved material shall be provided between the two faces.

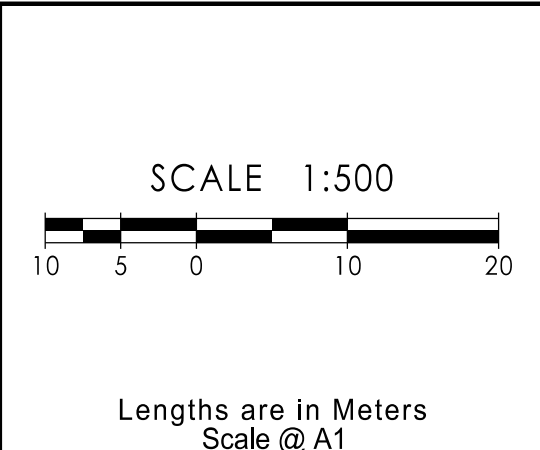
SERVICES OFFSETS AND LOCATIONS

Location	Gas	Water		Communications		Electricity		BOK	Road Width	Joint Trenching	Street Classification
		NDW	DW	Cables	Pits	Cables	Poles				
PALACE WALK		2.70W	3.20W	1.85E	1.70W/1.85E	2.60E	1.00 BOK	4.35W/4.05E	16	G&W,FTTH&E	LEVEL 1
WASHINGTON AVENUE		2.60E	3.10E	1.85W	1.70E/1.85W	2.60W	1.00 BOK	4.35E/4.05W	16	G&W,FTTH&E	LEVEL 1
BROAD WAY (LOT 1012-1023)		2.70N	3.20N	1.85S	1.70N/1.85S	2.60S	1.00 BOK	4.35N/4.05S	16	G&W,FTTH&E	LEVEL 1
CANDLEBARK ROAD		2.50N	3.00N	0.40N	0.40N	0.80S	1.00 BOK	4.35N/2.55S	14.5	G&W,FTTH&E	LEVEL 1

NOTE: a) At the court bowl where water and gas mains pass, the watermain offset is to be increased by 0.5 metres.
b) * Indicates offsets from back of kerb where services do not run parallel to title boundary.
c) * Indicates Communication pits placed within concrete footpath.

SYMBOL LEGEND		SYMBOL LEGEND		SYMBOL LEGEND	
Drains	Prop	PSM	Ex/Natural/FS Level	Tree To Be Retained	Tree To Be Retained
Sewer < 3000	S	Ex Drains	FS @ Building Line	Tree To Be Retained	Tree To Be Retained
Sewer > 3000	S	Ex Water/DW/DWW	Top/Toe Batter Level	Tree To Be Retained	Tree To Be Retained
Water (DW)	W	Ex Sewer/Gas	Top/Bottom RW Level	Tree To Be Retained	Tree To Be Retained
Water (NDW)	W	Ex Elec/Comm	1% AEP Flood Level	Tree To Be Retained	Tree To Be Retained
House Drain	H	Fill Proposed (<0.3m@20.3m)	Direction of Lot Fall	Tree To Be Retained	Tree To Be Retained
Property Inlet	I	Cut Proposed	TBM	Tree To Be Retained	Tree To Be Retained
Street Sign	Sign	Asphalt Surface Prop		Tree To Be Retained	Tree To Be Retained
Rock Ret Wall	R	Concrete Surface Prop		Tree To Be Retained	Tree To Be Retained
Sleeper Ret Wall	R	(Paths/Driveways/Slabs)		Tree To Be Retained	Tree To Be Retained
Conduits 50mm	GW			Tree To Be Retained	Tree To Be Retained
Conduits 100mm	W100			Tree To Be Retained	Tree To Be Retained

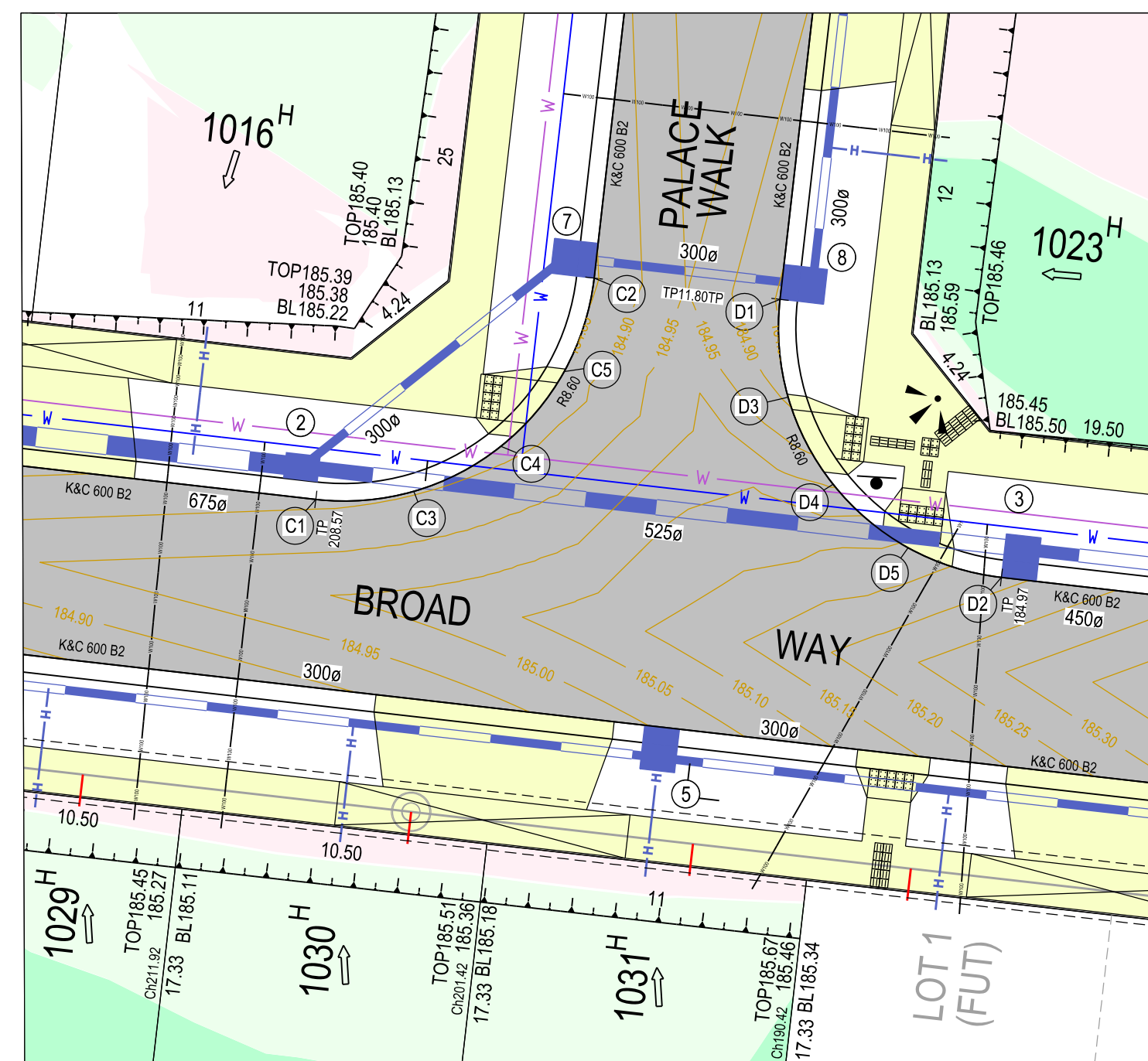
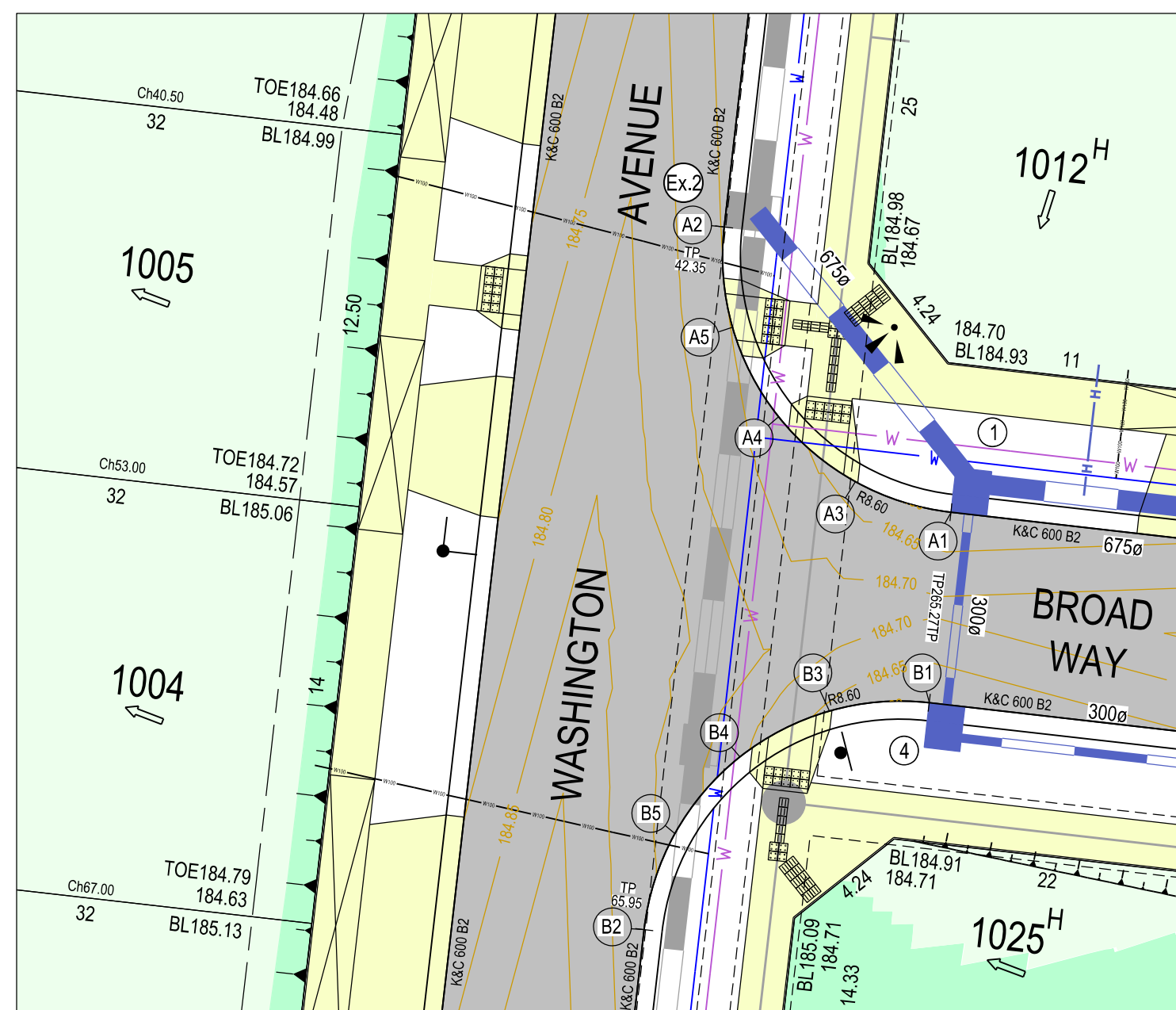
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VER	DATE	ISSUED FOR APPROVAL	REMARKS	APPROVED	RGW
A	01/05/26	ISSUED FOR APPROVAL			



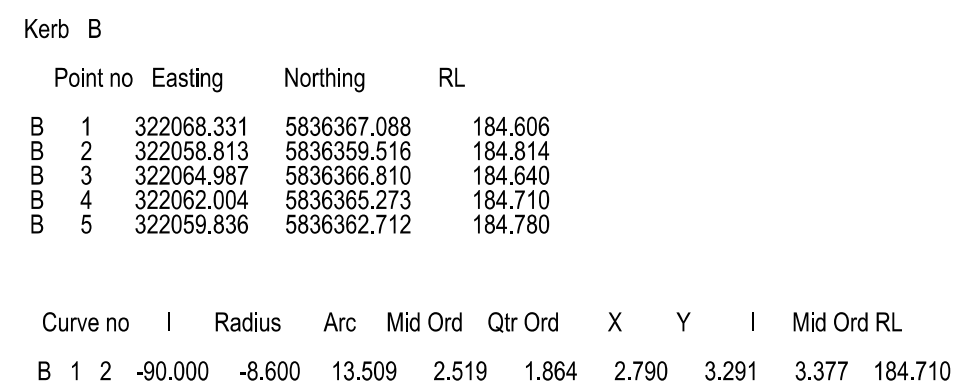
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Drawn: DT	Datum: AHD/
Checked: RGW	Date: 25/02/26
Approved: RGW	
VICTORIAN PROFESSIONAL ENGINEERS REGISTRATION ACT 2019 REGISTERED ENGINEER: ROBERT GOULD-WILLIAMS REGISTRATION NUMBER: PE0007500	



RATHDOWNE ESTATE		
STAGE 10 DETAIL PLAN, LOCALITY PLAN, SHEET INDEX & SERVICES SCHEDULE		
Council:	Project No.:	Rev:
WHITTLESEA	9365 - 10	P3
Status:	Sheet:	
APPROVED	1 of 3	



SCALE 1:200



Kerb		C											
		Point no	Easting	Northing	RL								
C	1	322135.043	5936359.492	185.295									
C	2	322135.525	5936359.492	185.197									
C	3	322131.699	5936359.214	185.271									
C	4	322128.716	5936357.677	185.246									
C	5	322128.548	5936355.116	185.221									

Curve no	X	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord	RL
C 1	2	-90.00	-8.600	13.509	2.519	1.864	2.790	3.291	3.377	144.884	

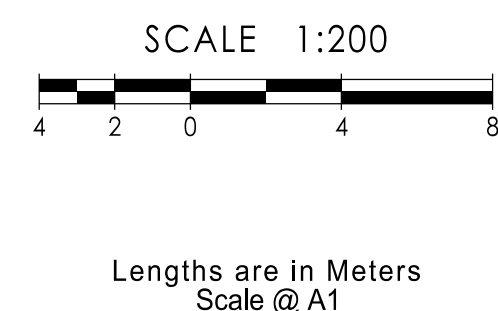
Kerb		D																			
		Point no	Easting	Northing	RL																
D	1	322141.267		5836373.880	184.645																
D	2	322148.839		5836364.362	185.185																
D	3	322141.545		5836370.536	184.891																
D	4	322143.082		5836367.553	184.995																
D	5	322145.643		5836365.385	185.109																

		Curve no	I	Radius	Arc	Mid Ord	Qtr Ord	X	Y	I	Mid Ord	RL
D	1	2	-90.000	-8.600	13.509	2.519	1.864	2.790	3.291	3.377	184.995	

SYMBOL LEGEND

Drains Sewer < 3000' Sewer > 3000' Water (DW) Water (NDW) House Drain Property Inlet Street Sign Rock Ret Wall Sleeper Ret Wall Conduits 50mm Conduits 100mm	PSM Ex Drains Ex Water/DW/NDW Ex Sewer/Gas Ex Elec/Comm Fill Proposed (<0.3m/±0.3m) Cut Proposed Asphalt Surface Prop Concrete Surface Prop (Paths/Driveways/Slabs)	Ex/Natural/FS Level FS @ Building Line Top/Toe Batter Level Top/Bottom RW Level 1% AEP Flood Level Direction of Lot Fall TBM	ALL SETOUT DETAILS ARE PROVIDED AT 1/4" = 1' OF KERS CURV. SETOUT DIAGRAM
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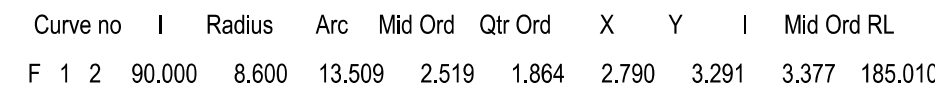
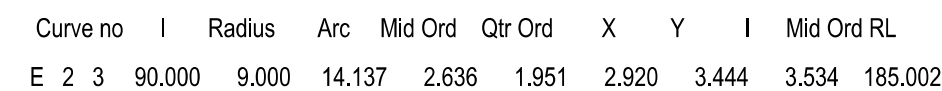
AMENDMENTS			
VER	DATE	REMARKS	APPROVED



Designed: RF	Survey: BPD
Drawn: DW	Datum: AHD/
Checked:	Date:
Approved:	
VICTORIAN PROFESSIONAL ENGINEERS REGISTRATION ACT 2019 REGISTERED ENGINEER: ROBERT GOULD-WILLIAMS REGISTRATION NUMBER: PE0007500	



RATHDOWNE ESTATE STAGE 10 INTERSECTION DETAILS No.1		
Council: WHITTLESEA	Project No.: 9365 - 10	Rev: P3
Status: PRELIMINARY	Sheet: 2 of 14	



SCALE: HORIZONTAL 1:200
VERTICAL 1:20

A diagram of a circular curve setout. It shows a circular arc with a center point. A radius line is drawn from the center to the start of the curve, labeled 'Radius'. The angle at the center between the radius and the chord is labeled 'Angle'. The chord itself is labeled 'Chord'. The curve is divided into segments by points labeled 'a', 'b', 'c', 'd', 'e', 'f', 'g', 'h', 'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r', 's', 't', 'u', 'v', 'w', 'x', 'y', 'z'.

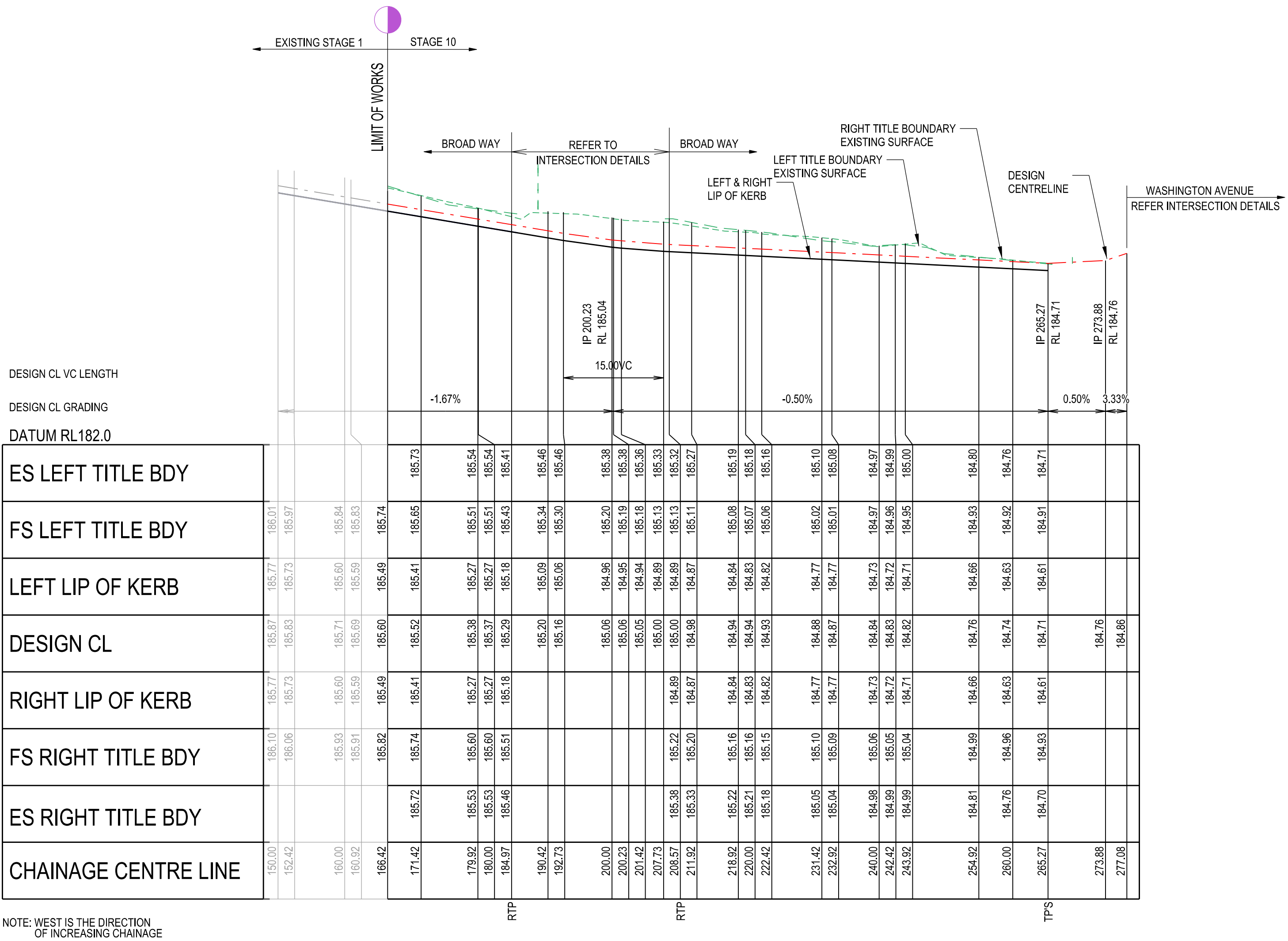
Lengths are in Meters
Scale @ A1

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LONGITUDINAL SECTION



BROAD WAY

LONGITUDINAL SECTION

SCALE HORIZONTAL 1:500
VERTICAL 1:50

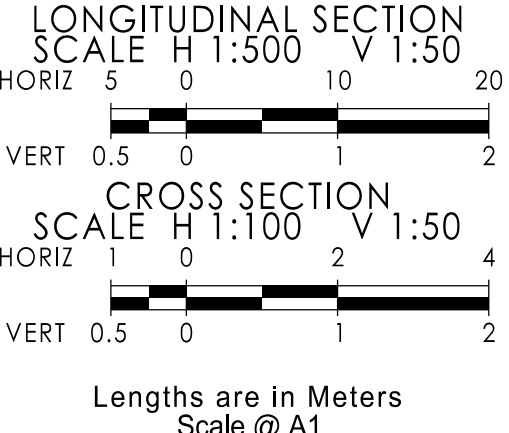
SYMBOL LEGEND - LONGITUDINAL SECTION

- EXISTING SURFACE RIGHT TITLE BOUNDARY
- EXISTING SURFACE LEFT TITLE BOUNDARY
- RIGHT LIP OF KERB
- LEFT LIP OF KERB
- DESIGN CENTRELINE

SYMBOL LEGEND - CROSS SECTION

- EXISTING SURFACE
- DESIGN SURFACE
- CRUSHED ROCK BACKFILL
- FILL UNDER ROAD PAVEMENT TO BE SUITABLE SELECTED MATERIAL APPROVED BY THE ENGINEER. MATERIAL TO BE PLACED IN LAYERS AND COMPACTED TO ACHIEVE 95% STANDARD COMPACTION. FINISHED SURFACE PROFILE AS PER CROSS SECTIONS. ALL WORKS TO COMPLY WITH COUNCIL STANDARDS.
- REFER RETAINING WALL PLAN FOR DETAILS
- ULTIMATE DESIGN SURFACE

AMENDMENTS			
VER	DATE	REMARKS	APPROVED



Designed: RF	Survey: BPD
Drawn: DW	Datum: AHD/
Checked:	Date:
Approved:	
VICTORIAN PROFESSIONAL ENGINEERS REGISTRATION ACT 2019 REGISTERED ENGINEER: ROBERT GOULD-WILLIAMS REGISTRATION NUMBER: PE0007500	

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RATHDOWNE ESTATE

STAGE 10

BROAD WAY - LONGITUDINAL SECTION

Council:	Project No.:	Rev:
WHITTLESEA	9365 - 10	P3
Status: PRELIMINARY	Sheet:	5 of 14



SCALE HORIZONTAL 1:500
VERTICAL 1:50

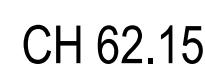
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VERTICAL 1:50



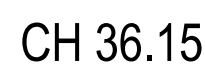
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DATUM RL184.0



DATUM RL184.0



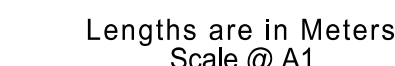
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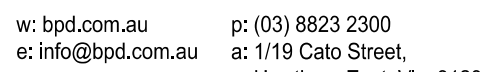
	EXISTING SURFACE RIGHT TITLE BOUNDARY
	EXISTING SURFACE LEFT TITLE BOUNDARY
	RIGHT LIP OF KERB
	LEFT LIP OF KERB
	DESIGN CENTRELINE

 EXISTING SURFACE  ULTIMATE DESIGN SURFACE
 DESIGN SURFACE
 CRUSHED ROCK BACKFILL
 FILL UNDER ROAD PAVEMENT TO BE SUITABLE SELECTED MATERIAL APPROVED BY THE ENGINEER. MATERIAL TO BE PLACED IN LAYERS AND COMPACTED TO ACHIEVE 95% STANDARD COMPACTION.
 FINISHED SURFACE PROFILE AS PER CROSS SECTIONS. ALL WORKS TO COMPLY WITH COUNCIL STANDARDS.
 REFER RETAINING WALL PLAN FOR DETAILS

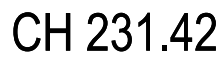
AMENDMENTS



VICTORIAN PROFESSIONAL ENGINEERS
REGISTRATION ACT 2019
REGISTERED ENGINEER: ROBERT GOULD-WILLIAMS
REGISTRATION NUMBER: PE0007500

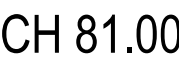
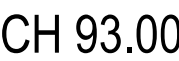
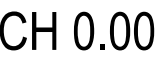


Council:	Project No.:	Rev:
WHITTLESEA	9365 - 10	P3
Status: PRELIMINARY	Sheet: 6 of 14	



SCALE HORIZONTAL 1:100
VERTICAL 1:50

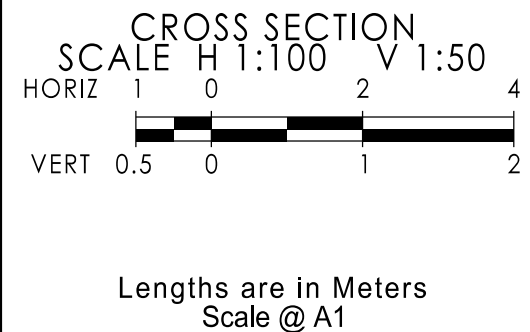
RATHDOWNE ESTATE STAGE 10 BROAD WAY - CROSS SECTIONS		
Council: WHITTLESEA	Project No.: 9365 - 10	Rev: P3
Status: PRELIMINARY	Sheet: 7 of 14	



SCALE HORIZONTAL 1:100
VERTICAL 1:50

	EXISTING SURFACE		ULTIMATE DESIGN SURFACE
	DESIGN SURFACE		
	CRUSHED ROCK BACKFILL		
	FILL UNDER ROAD PAVEMENT TO BE SUITABLE SELECTED MATERIAL APPROVED BY THE ENGINEER. MATERIAL TO BE PLACED IN LAYERS AND COMPACTED TO ACHIEVE 95% STANDARD COMPACTION.		
	FINISHED SURFACE PROFILE AS PER CROSS SECTIONS. ALL WORKS TO COMPLY WITH COUNCIL STANDARDS.		
	REFER RETAINING WALL PLAN FOR DETAILS		

AMENDMENTS				
VER	DATE	REMARKS		APPROVED



Designed: RF	Survey: BPD
Drawn: DW	Datum: AHD/
Checked:	Date:
Approved:	

**VICTORIAN PROFESSIONAL ENGINEERS
REGISTRATION ACT 2019**
REGISTERED ENGINEER: ROBERT GOULD-WILLIAMS
REGISTRATION NUMBER: PE0007500



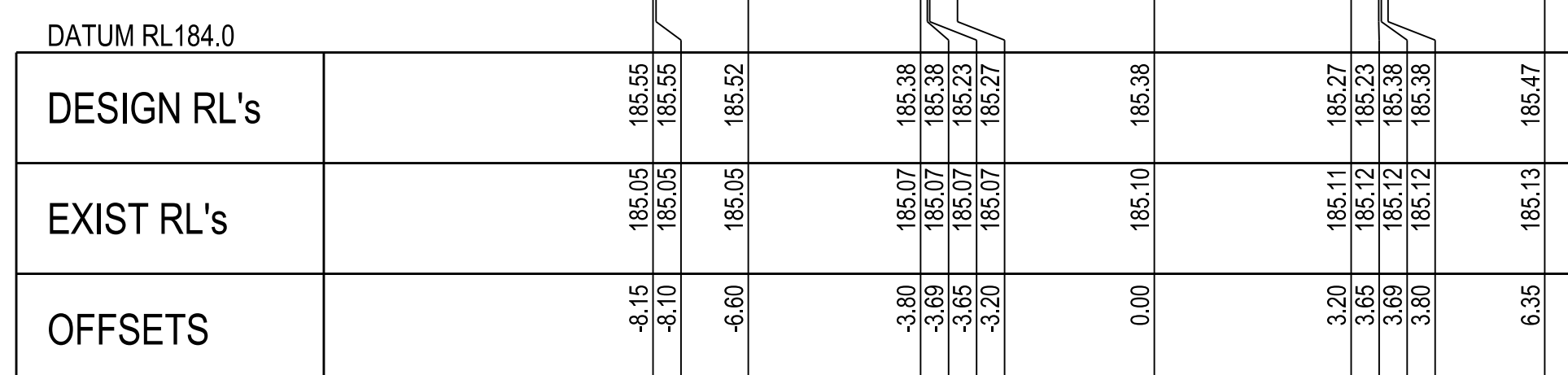
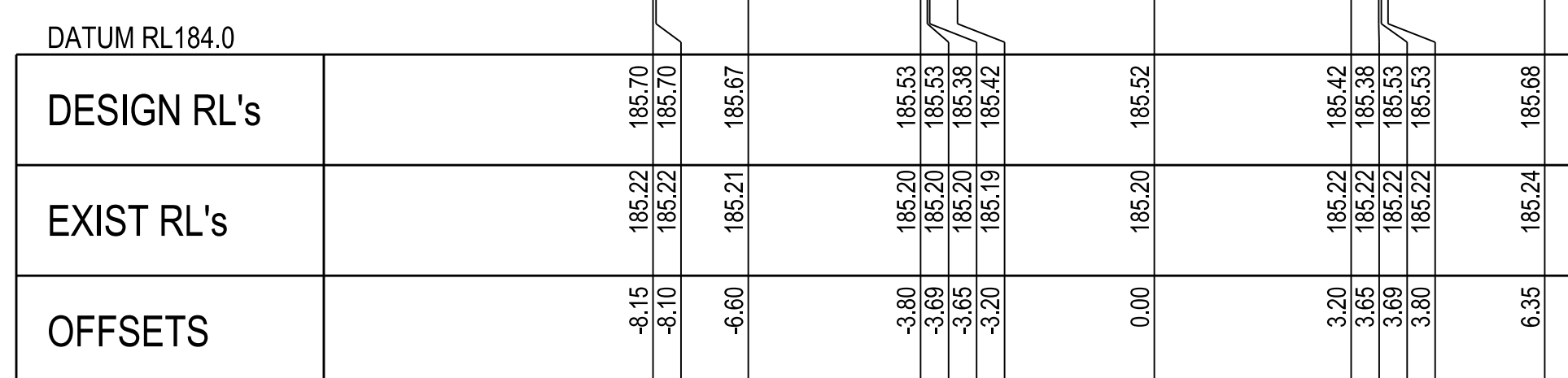
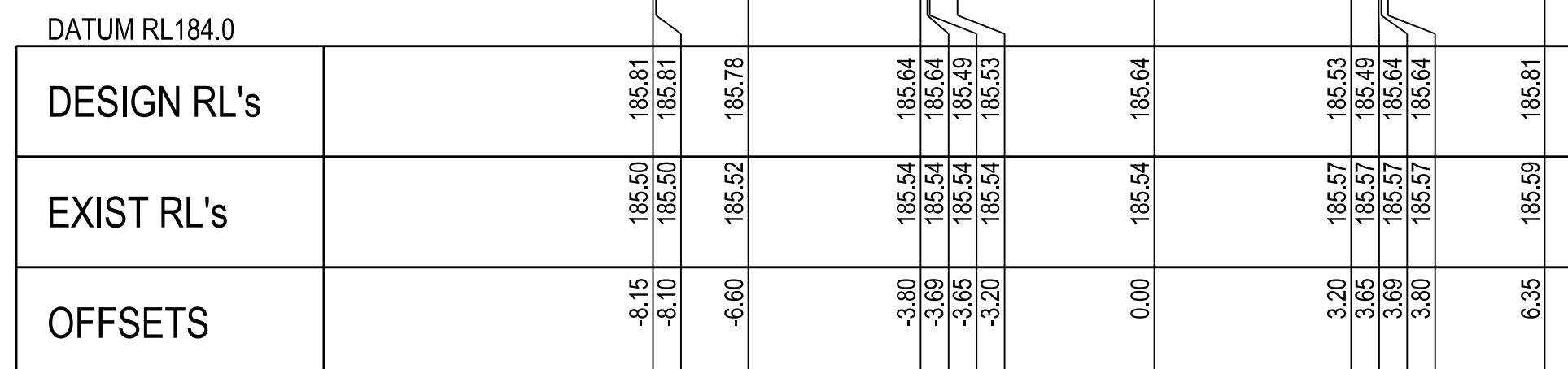
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Hawthorn East. Vic. 3123

RATHDOWNE ESTATE

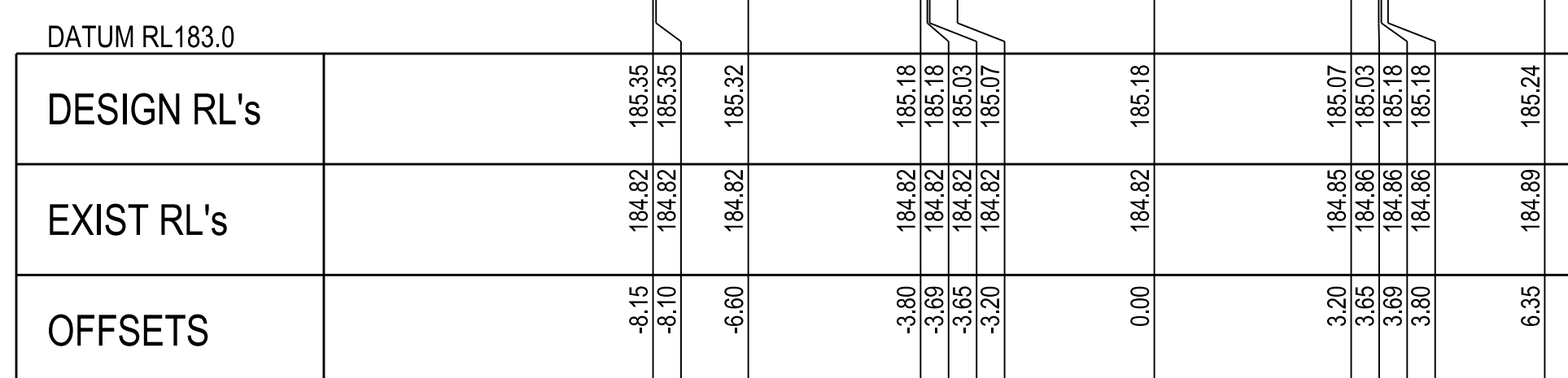
STAGE 10

WASHINGTON AVENUE - CROSS SECTIONS

Council:	Project No.:	Rev:
WHITTLESEA	9365 - 10	P3
Status: PRELIMINARY	Sheet: 8 of 14	



A cross-section diagram of a drainage system. It shows a manhole on the left with a 1 in 50 slope leading into a 1 in 20 slope. This slope leads into a 1 in 30 slope, which then leads into a 1 in 40 slope. The diagram illustrates the transition between different pipe diameters and slopes.

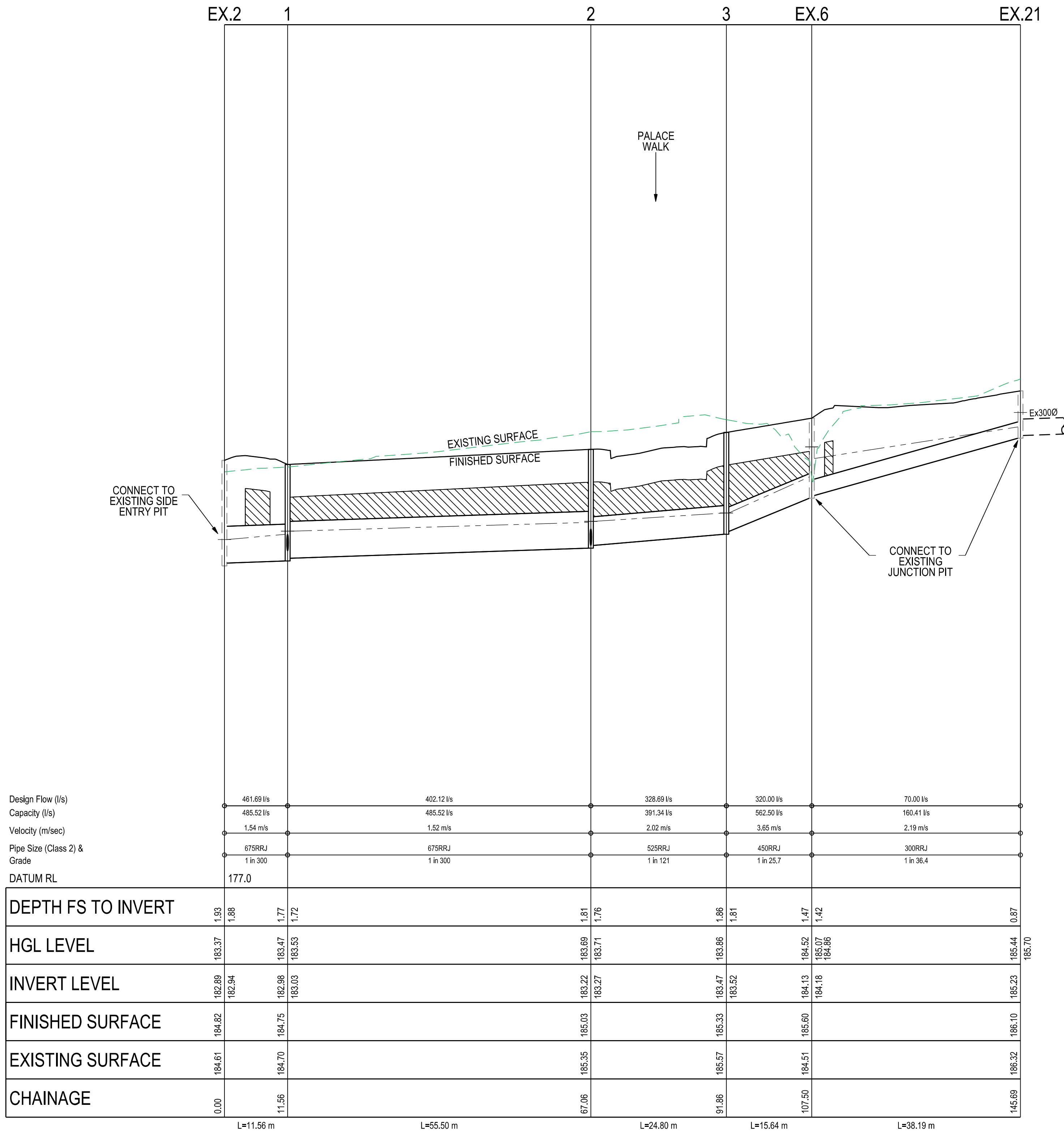


CANDLEBARK ROAD
CROSS SECTIONS
SCALE HORIZONTAL 1:100
VERTICAL 1:50

AMENDMENTS				
VER	DATE	REMARKS	APPROVED	

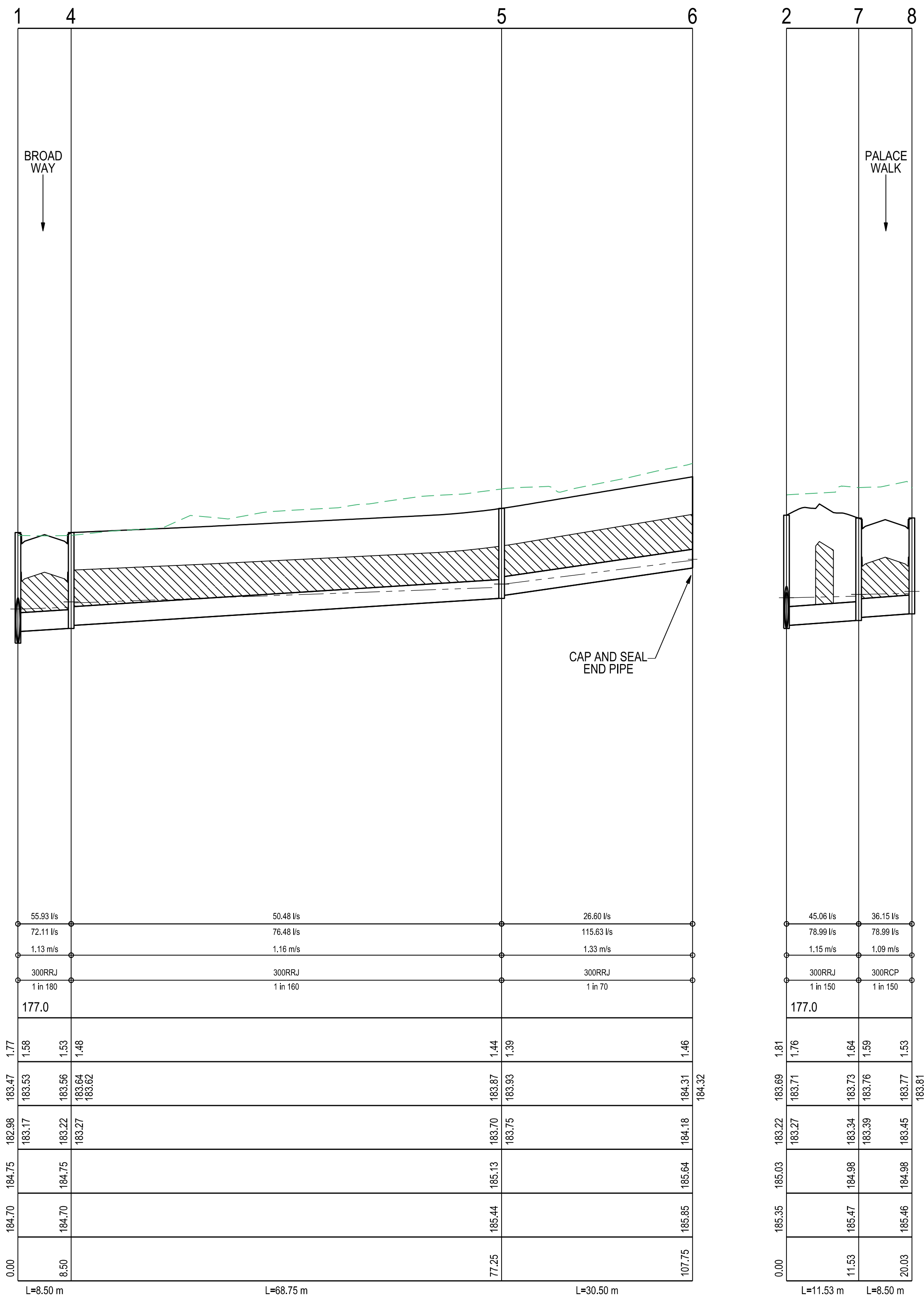


Council:	Project No.:	Rev:
WHITTLESEA	9365 - 10	P3
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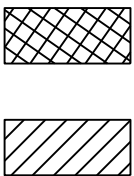
DRAINAGE LONGITUDINAL SECTIONS No.1

SCALE HORIZONTAL 1:500
VERTICAL 1:50



SYMBOL LEGEND

- EXISTING SURFACE PROFILE
 - FINISHED SURFACE PROFILE
 - HYDRAULIC GRADE LINE (0.2 EY / 18.13% AEP)
- ALL PIPES TO BE CLASS 2 UNLESS SHOWN OTHERWISE
RRJ DENOTES RUBBER RING JOINTED
FJ DENOTES FLUSH JOINTED WITH EXTERNAL SEALING BANDS

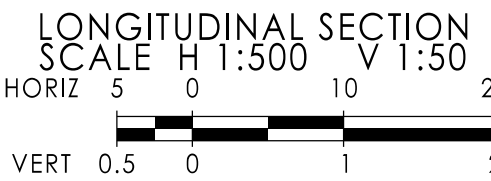


INDICATES CLASS 2 CRUSHED ROCK BACKFILL



INDICATES CLASS 3 CRUSHED ROCK BACKFILL

AMENDMENTS			
VER	DATE	REMARKS	APPROVED



Lengths are in Meters
Scale @ A1

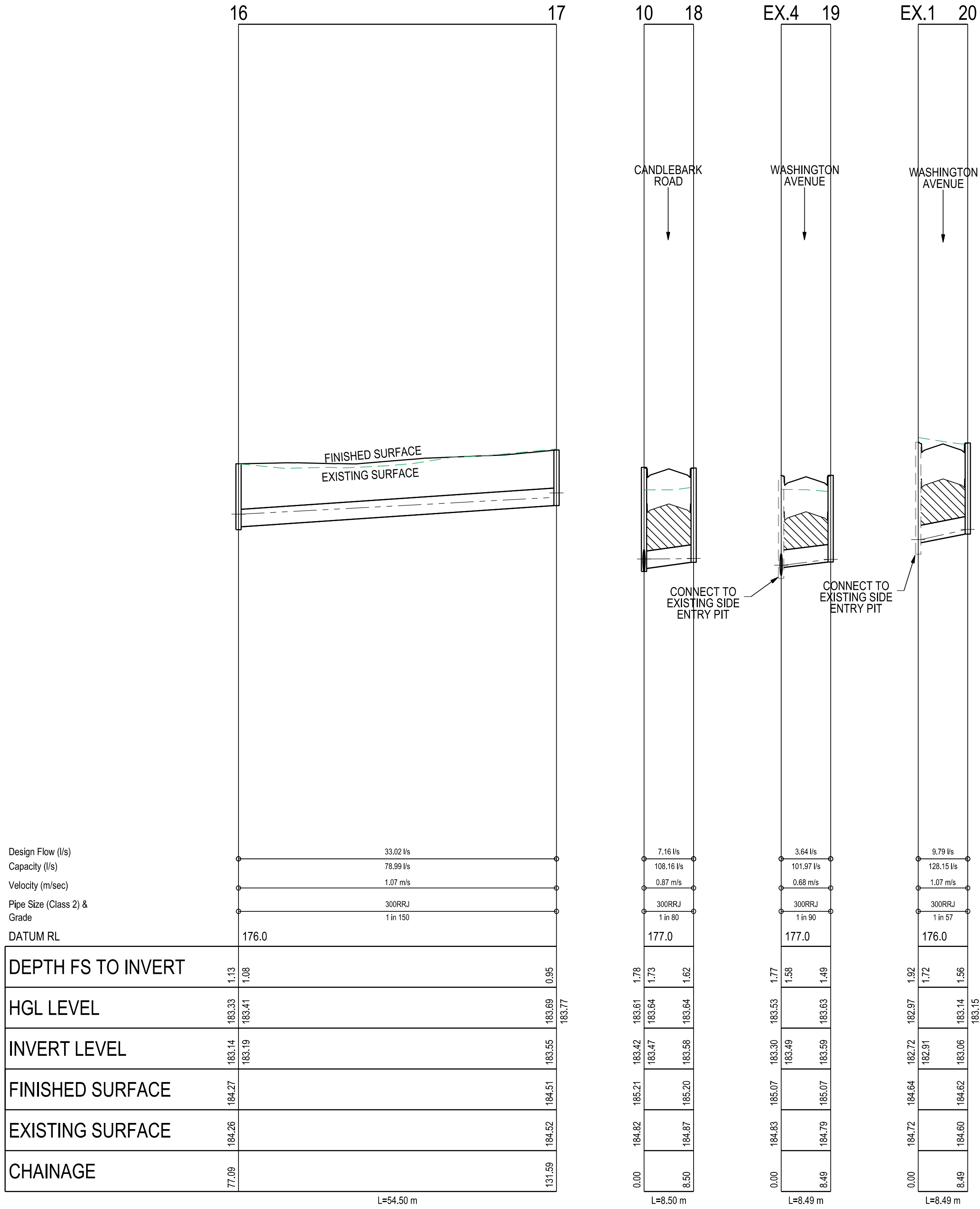
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Drawn: DW	Datum: AHD/
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VICTORIAN PROFESSIONAL ENGINEERS REGISTRATION ACT 2019 REGISTERED ENGINEER: ROBERT GOULD-WILLIAMS REGISTRATION NUMBER: PE0007500	



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RATHDOWNE ESTATE
STAGE 10
DRAINAGE LONGITUDINAL SECTION No.1

Council:	Project No.:	Rev:
WHITTLESEA	9365 - 10	P3
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DRAINAGE LONGITUDINAL SECTIONS No.3

SCALE HORIZONTAL 1:500
VERTICAL 1:50

PIT SCHEDULE										
PIT No.	PIT DESCRIPTION	LENGTH	WIDTH	INLET		OUTLET		TOP	DEPTH	REMARKS
				INVERT	DIA	INVERT	DIA	PIT RL	INVERT	
1	GRATED SIDE ENTRY PIT	900	900	183.03	675	182.98	675	184.75	1.77	EDCM STD DWG 601 & 607 (HAUNCHED)
				183.17	300					
2	JUNCTION PIT	900	900	183.27	525	183.22	675	185.03	1.81	EDCM STD DWG 607 (HAUNCHED)
				183.27	300					
3	GRATED SIDE ENTRY PIT	900	900	183.52	450	183.47	525	185.34	1.86	EDCM STD DWG 601 & 607 (HAUNCHED)
4	GRATED SIDE ENTRY PIT	900	600	183.27	300	183.22	300	184.75	1.53	EDCM STD DWG 601 & 605
5	GRATED SIDE ENTRY PIT	900	600	183.75	300	183.70	300	185.13	1.44	EDCM STD DWG 601 & 605
6	END OF PIPE					184.18	300	185.64	1.46	CAP & SEAL FOR FUTURE
7	GRATED SIDE ENTRY PIT	900	600	183.39	300	183.34	300	184.98	1.64	EDCM STD DWG 601 & 605
8	GRATED SIDE ENTRY PIT	900	600	183.50	300	183.45	300	184.98	1.53	EDCM STD DWG 601 & 605
9	JUNCTION PIT	900	600			184.07	300	185.66	1.59	EDCM STD DWG 605
10	GRATED SIDE ENTRY PIT	900	600	183.47	300	183.42	375	185.21	1.78	EDCM STD DWG 601 & 605
				183.47	300					
11	END OF PIPE					184.05	300	185.67	1.62	CAP & SEAL FOR FUTURE
12	JUNCTION PIT	900	900	183.03	300	182.80	750	184.72	1.92	EDCM STD DWG 607 (HAUNCHED)
13	JUNCTION PIT	900	600	184.20	300	184.15	300	185.14	0.98	EDCM STD DWG 605
14	JUNCTION PIT	900	600			184.39	300	185.30	0.90	EDCM STD DWG 605
15	JUNCTION PIT	900	600	182.76	300	182.71	300	184.41	1.70	EDCM STD DWG 605
16	JUNCTION PIT	900	600	183.19	300	183.14	300	184.27	1.13	EDCM STD DWG 605
17	JUNCTION PIT	900	600			183.55	300	184.51	0.95	EDCM STD DWG 605
18	GRATED SIDE ENTRY PIT	900	600			183.58	300	185.20	1.62	EDCM STD DWG 601 & 605
19	GRATED SIDE ENTRY PIT	900	600			183.59	300	185.08	1.49	EDCM STD DWG 601 & 605
20	GRATED SIDE ENTRY PIT	900	600			183.06	300	184.63	1.56	EDCM STD DWG 601 & 605
Ex.1	EXISTING GRATED SIDE ENTRY PIT	900	900	182.92	300	182.72	750	184.64	1.92	CONNECT TO EXISTING SIDE ENTRY PIT AT THE WESTERN WALL AT IL 182.72
Ex.2	EXISTING GRATED SIDE ENTRY PIT	900	900	182.94	675	182.89	750	184.82	1.93	CONNECT TO EXISTING SIDE ENTRY PIT AT THE EASTERN WALL AT IL 182.89
Ex.21	EXISTING JUNCTION PIT	900	600	185.28	300	185.23	300	186.10	0.87	CONSTRUCT JUNCTION PIT OVER EXISTING END PIPE AS PER VPA STD DWG EDCM 605
Ex.4	EXISTING GRATED SIDE ENTRY PIT	900	900	183.35	375	183.30	675	185.07	1.77	CONNECT TO EXISTING SIDE ENTRY PIT AT THE EASTERN WALL AT IL 183.30
Ex.6	EXISTING JUNCTION PIT	900	600	184.18	300	184.13	450	185.60	1.47	CONSTRUCT JUNCTION PIT OVER EXISTING END PIPE AS PER VPA STD DWG EDCM 605
Ex.83	EXISTING GRATED SIDE ENTRY PIT	900	600	182.51	300	182.41	375	184.29	1.83	CONNECT TO EXISTING SIDE ENTRY PIT AT THE SOUTHERN WALL AT IL 182.49

SYMBOL LEGEND

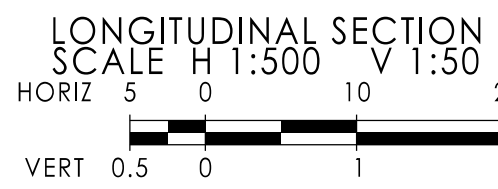
EXISTING SURFACE PROFILE
FINISHED SURFACE PROFILE
HYDRAULIC GRADE LINE (0.2 EY / 18.13% AEP)

ALL PIPES TO BE CLASS 2 UNLESS SHOWN OTHERWISE
RRJ DENOTES RUBBER RING JOINTED
FJ DENOTES FLUSH JOINTED WITH EXTERNAL SEALING BANDS

INDICATES CLASS 2 CRUSHED ROCK BACKFILL
INDICATES CLASS 3 CRUSHED ROCK BACKFILL

AMENDMENTS

VER DATE REMARKS APPROVED



Lengths are in Meters
Scale @ A1

Designed: RF
Survey: BPD
Drawn: DW
Datum: AHD/
Checked:
Date:
Approved:
VICTORIAN PROFESSIONAL ENGINEERS
REGISTRATION ACT 2019
REGISTERED ENGINEER: ROBERT GOULD-WILLIAMS
REGISTRATION NUMBER: PE0007500



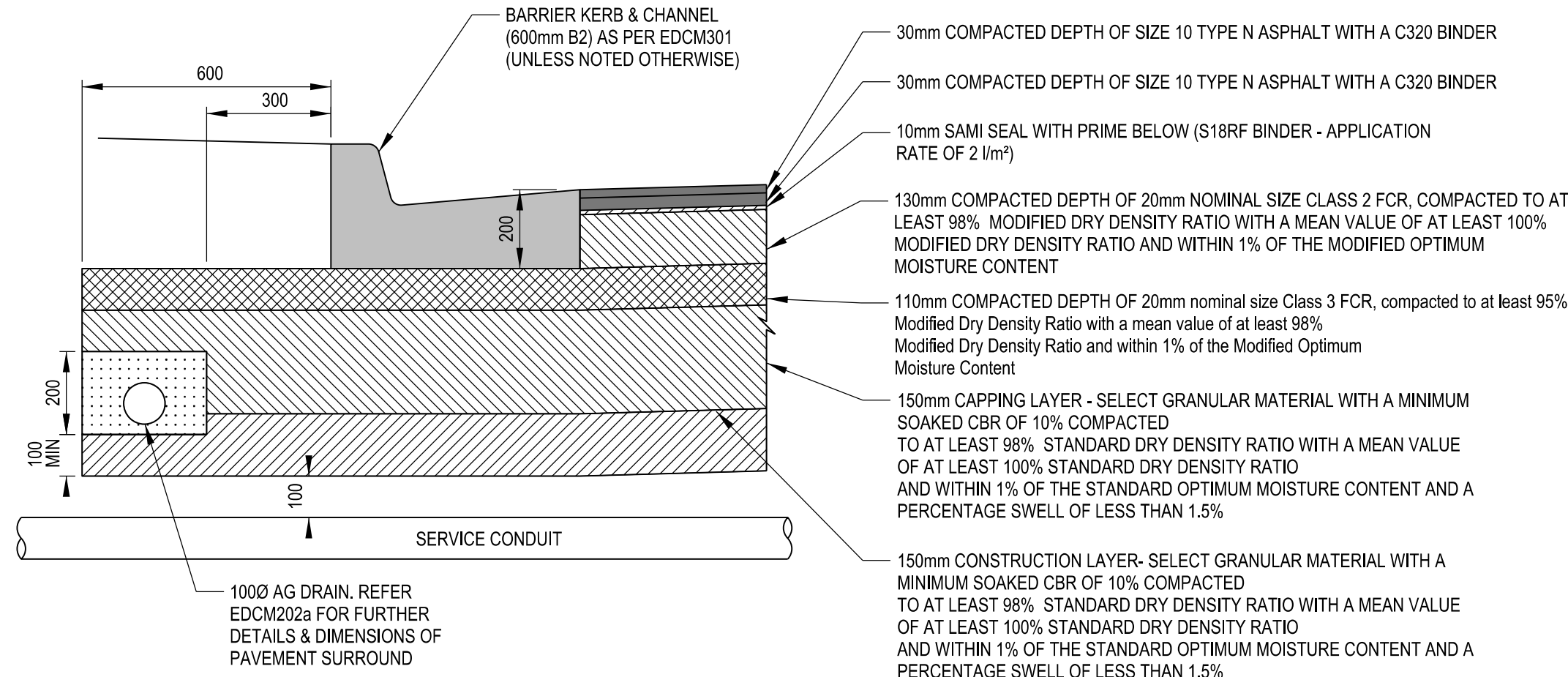
w: bpd.com.au
e: info@bpd.com.au
p: (03) 8823 2300
a: 1/19 Cato Street,
Hawthorn East, Vic. 3123.

RATHDOWNE ESTATE
STAGE 10
DRAINAGE LONGITUDINAL SECTION No.3
& PIT SCHEDULE

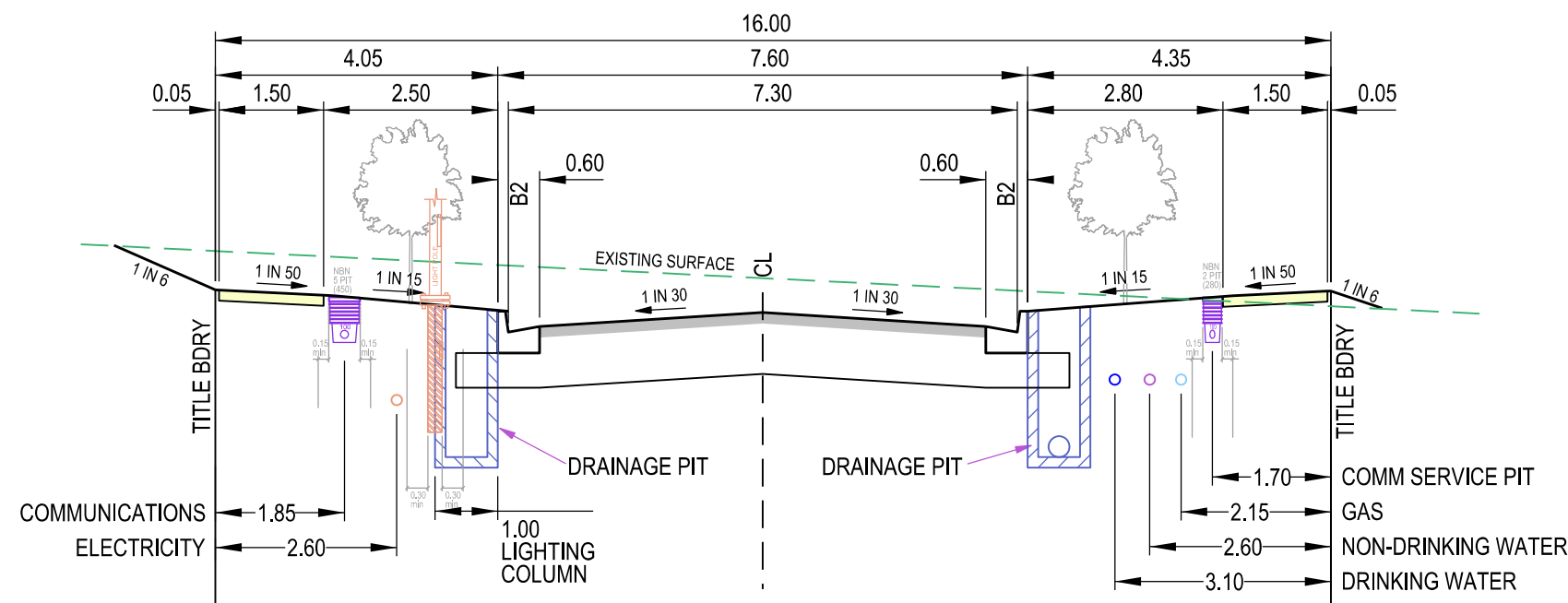
Council: WHITTLESEA
Status: PRELIMINARY
Project No.: 9365 - 10
Sheet: 12 of 14
Rev: P3



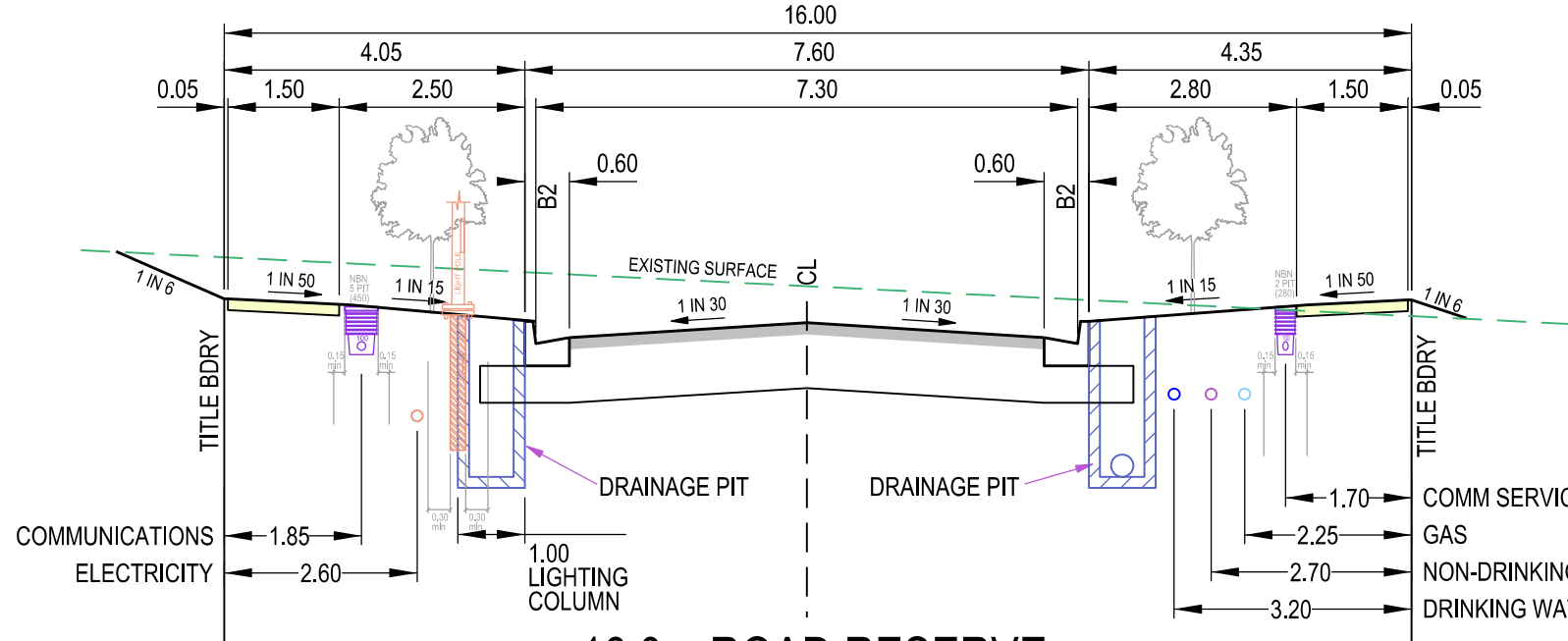
PLAN
SCALE 1:500



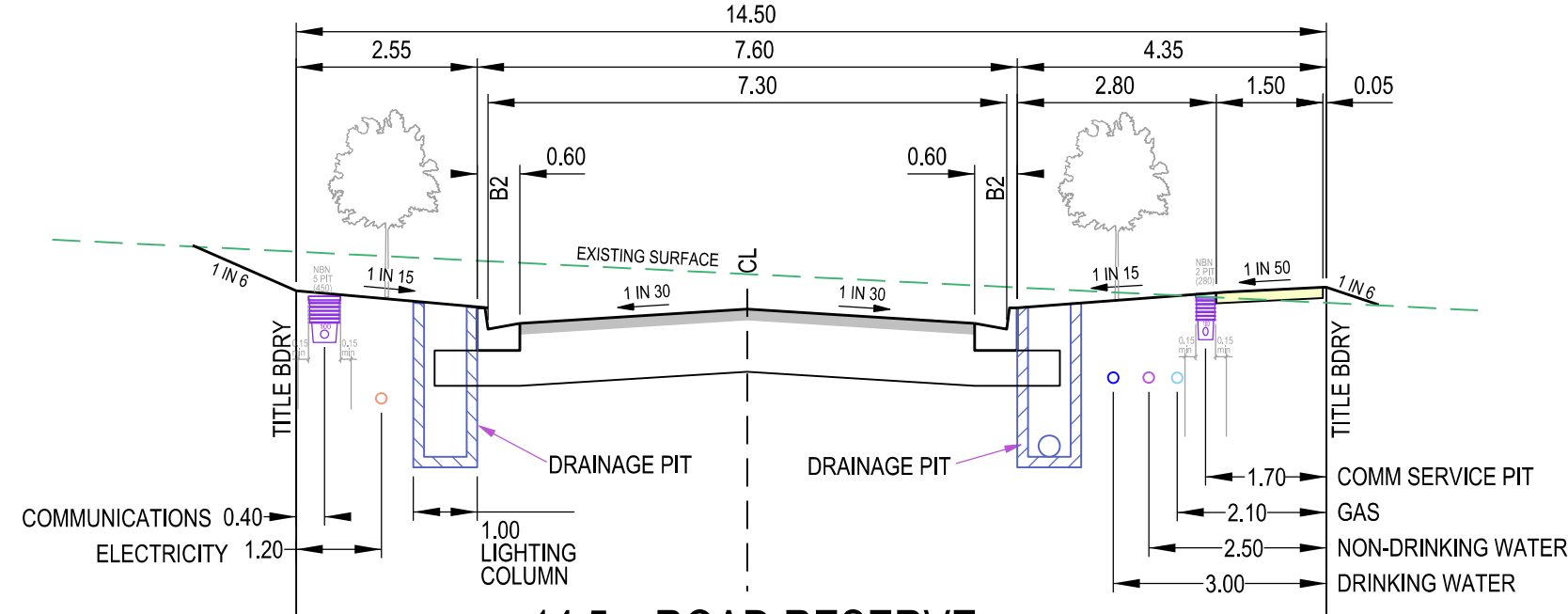
WASHINGTON AVENUE, PALACE WALK
& CANDLEBARK ROAD - 610mm DEPTH
PAVEMENT COMPOSITION
REFER EDCM202a FOR ADDITIONAL DETAILS
(Dimensions in Millimetres)
N.T.S.



16.0m ROAD RESERVE
WASHINGTON AVENUE
ACCESS STREET TYPE 1



16.0m ROAD RESERVE
BROAD WAY & PALACE WALK
ACCESS STREET TYPE 1



14.5m ROAD RESERVE
CANDLEBARK ROAD
ACCESS STREET TYPE 1

LEGEND



AREA 3 < 1000 VPD

AMENDMENTS			
VER	DATE	REMARKS	APPROVED



Lengths are in Meters
Scale @ A1

Designed: RF	Survey: BPD
Drawn: DW	Datum: AHD/
Checked:	Date:
Approved:	
VICTORIAN PROFESSIONAL ENGINEERS REGISTRATION ACT 2019 REGISTERED ENGINEER: ROBERT GOULD-WILLIAMS REGISTRATION NUMBER: PE0007500	



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p: (03) 8823 2300
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RATHDOWNE ESTATE
STAGE 10
TYPICAL SECTIONS & PAVEMENT DETAILS

Council:	Project No.:	Rev:
WHITTLESEA	9365 - 10	P3
Status: PRELIMINARY	Sheet:	14 of 14