

THE PATCH - STAGE 03, WOLLERT JINDING DEVELOPMENTS

CITY OF WHITTLESEA

CONSTRUCTION NOTES

GENERAL

- A1, All works to be carried out in accordance with plans & current City of Whittlesea & VPA current specifications & standard drawings approved by Council & satisfaction of the engineer.
- A2, Council to be notified 7 (seven) clear days prior to commencement of works.
- A3, The Contractor must arrange the requisite inspections of the works with the Chief Executive Officer /or their representative as per the hold points in the Whittlesea City Council specifications
- A4, Before commencement of works on trenches in excess of 1.5m deep, the civil contractors construction supervisor must be given notice in writing of such proposals to Worksafe Victoria in accordance with Part 5.1, Division 4 of the Occupational Health & Safety Regulations (2007) & undertake safety precautions in trenching operations in accordance with Workcover's Code of Practice (1988).
- A5, Where works are in the vicinity of existing services, these services are to be located & the various authorities notified prior to commencement of works.
- A6, All dimensions are in metres unless noted otherwise.
- A7, All levels are to be Australian Height Datum (AHD) and in MGA94 Zone 55 coordinates.
- A8, All TBM's & control points are to be maintained & protected at all times during construction. Should any marks be disturbed, the contractor will immediately notify the consultant to arrange reinstatement at the contractors expense.
- A9, Refer to landscape architect plans for details of vehicle exclusion fencing around the perimeter of works.
- A10, All fences adjoining all reserves (other than road reserves) are to be erected by the developer (or owner) at no cost to Council.
- A11, A building permit must be obtained by contractor for any structural / retaining wall exceed 1.0m in height prior to the commencement of construction in accordance with Building Code of Australia.

SITE MANAGEMENT

- B1, Prior to commencement of works on site, the contractor must ensure that all matters relating to the Occupational Health & Safety Act 2004, including all relevant regulations, have been addressed. In particular, the required notifications must be conveyed to the Victorian Workcover Authority - Health & Safety Division with respect to trenching operations. Details of the contractors occupational health & safety procedures must be lodged with the superintendent prior to commencement of works. Works to be undertaken in accordance with EPA and Melbourne Water guidelines.
- B2, Any infrastructure damage during the defects liability period is the responsibility of the Contractor or their representative and is to be reinstated to the satisfaction of the Chief Executive Officer/their representative.
- B3, At the completion of all works, all rubbish, debris and surplus spoil shall be removed and the site shall be cleared to the satisfaction of the Chief Executive Officer/their representative.
- B4, The contractor is responsible for ensuring that all imported fill material, including topsoil, satisfies the description for clean fill material in EPA Bulletin Publication No. 448 (September 1995) & subsequent revisions. The contractor shall provide verification including test certificates to the supervising engineer.
- B5, Prior to commencement of works, the contractor shall provide the following information:
(a) Source of quarry material
(b) N.A.T.A. approved test results for the F.C.R. that is to be used.
(c) If the source of the quarry material is changed during the course of the works, then new test results shall be provided.
- B6, Prior to commencement of works, the contractor must submit a SMP to the consultant for approval. The contractor must comply with the recommendations of the Environmental Protection Authority Publication No. 275 "Construction Techniques for Sediment Pollution Control". Appropriate siltation control is to be maintained throughout the construction & maintenance period of the works. Works to abide by EPA Vic - Land preparation works on residential developments.
- B7, Prior to the commencement of works, Tree Protection Envelope fencing to be constructed as per River Red Gum Management plan by TreeLogic (Ref: 011206).
- B8, Existing dam or watercourses to be excavated to a firm base & backfilled as specified. Consulting engineer to be notified when the dam or watercourses are excavated to a firm base. No filling is to be placed prior to dams being inspected & levels taken. Backfilling is to be carried out to the satisfaction of the Council's supervising engineer. Works to be approved by Melbourne Water.

ROADWORKS

- C1, Subsurface drains are to be placed behind all kerb & channel & buffer pitchers & where directed by the engineer (refer to VPA Standard Drawing EDCM 202). Where kerb & channel is located on title boundary AG's are to be placed beneath kerb & 750mm below top of kerb.
- C2, Batters shall be 1 in 6 for cut & fill unless otherwise shown.
- C3, Lots to be graded & left clean to the satisfaction of the engineer.
- C4, The water conduit offset from the lot boundary is given on the water reticulation plan. The contractor must construct conduits to accord with the given offset & ensure that the concreter marks the kerb & footpath exactly above the conduit.
- C5, All gas & water conduit types are PVC Class 12 for residential lots. 50mm diameter conduit for gas and 100mm diameter conduit for combined drinking and non-drinking water. All services to be constructed under the capping layer.
- C6, NBN to be notified 7 days prior to concrete being placed.
- C7, Conduits are to be extended 600mm behind back of kerb & to be referenced on face of kerb. All services to be constructed under the capping layer.
- C8, All driveways to be constructed in accordance with VPA standard drawing EDCM 501 & 502.
- C9, All kerbs are to be 600mm B2 Barrier kerb & channel unless noted otherwise.
- C10, Irrigation conduits are to be DN100 DWV PVC installed beneath the pavement and/or capping layer, if present. Locations are to be marked using a green dot spray painted on the top of kerb.
- C11, Fill areas are to be stripped of topsoil, filled & topsoil replaced to obtain final fill levels as shown on plans. Filling to be clean clay compacted to a dry density not less than 95% of the maximum dry density value determined by the standard compaction test in accordance with Australian Standard AS1289.5.2.1-2003. All filling to be carried out in accordance with AS3798-2007. Sampling and testing in fill areas less than 200mm to comply with AS3798-2007 Section 8.3 (Level 2). Level 1 supervision and testing to be carried out in accordance with AS3798-2007 Section 8.2 for all fill areas in excess of 200mm. A fill report must be submitted to the Consultant, showing from a NATA registered soil testing laboratory.
- C12, All fire hydrants are to be marked in accordance with "Identification of Street Hydrants for Fire-Fighting Purposes" publication (developed by C.F.A., M.F.E.S.B. & N.R.E.). Markings to be via blue pavement marker and a (red topped) white post.
- C13, All footpaths in roads to be offset 50mm from property boundary. Footpaths constructed above existing level to be constructed on approved fill (to AS3798) of FCR into natural ground. All footpaths to be constructed in accordance with standard drawing EDCM 401.
- C14, Where Concrete paving crosses service trenches, sewerage and drainage, trenches shall be backfilled with compacted fine crushed rock (FCR.)
- C15, All material surrounding service authority pits located in footpaths must be adequately compacted in 150mm layers and tested to the satisfaction of the City of Whittlesea, prior to the construction of the footpath bays adjacent to these pits.

DRAINAGE

- D1, Drainage & pits to be setout from offsets shown rather than from centerline pipe chainages.
- D2, All pipes to be Class 2 RCP unless otherwise specified & shall be RRJ up to & including 750mm diameter. All drains that cross under road pavements are to be RRJ Class 2 RCP.
- D3, Jointing for curved pipe alignment shall conform to manufacturer's specifications (RRJ for minor deflections or complete RC bandages).
- D4, House drain connections are to be placed 5.5m from the low corner of lot unless otherwise shown. Property inlets are to be placed 1.0m from the low corner of lot unless otherwise shown.
- D5, All drains behind kerb and channel shall be backfilled to match pavement subgrade level with 20mm Class 3 F.C.R., compacted to 95% of the maximum dry density value determined by the modified compaction test in accordance with A.S. 1289.5.2.1-2003.
- D6, Approved granular backfill to be provided where pipe trenches encroach under roadway due to deep excavations in rock.
- D7, Shallow cut off drains are to be provided on subdivision boundary where necessary.
- D8, Ag drains are to be connected between kerbs on each side of the road at the limit of works where the natural surface falls towards the new construction.

PAVEMENT

- E1, All fill construction beneath capping layer and or subgrade to be Type A selected material, selected, placed & compacted in accordance with Clause 20.6 of the Whittlesea City Council specification. All other fill outside of proposed pavements (including beneath footpaths) is to be structural fill placed in accordance with Construction Note C11.
- E2, Pavement depth may be modified as directed by the engineer with the approval of Council.
- E3, The contractor is to organise & pay for testing of the pavement base course material & final layer of crushed rock. Tests to include nuclear densometer to ensure subgrade has reached optimum moisture content (OMC). A copy of the results is to be forwarded to the director of engineering or their representative. The results must meet the requirements of the City of Whittlesea specification before any works are required.
- E4, All joints for concrete pavements shall be located and spaced in accordance with "Cement and Concrete Association of Australia T51-Guide to Residential Street and Paths 2004".



SITE PLAN

NOT TO SCALE

MELWAY REF: 388 K5

Sheet List Table

BW DRAWING NO.	C&W DRAWING NO.	DESCRIPTION
1701289-03-001	3201-03-001	COVER SHEET
1701289-03-002	3201-03-002	TYPICAL ROAD CROSS SECTIONS, PAVEMENT MAKEUP & GENERAL DETAILS
1701289-03-010	3201-03-010	LAYOUT PLAN
1701289-03-100	3201-03-100	ROAD LONGITUDINAL SECTIONS LIGHT STREET
1701289-03-101	3201-03-101	ROAD LONGITUDINAL SECTIONS LAVENDER STREET
1701289-03-200	3201-03-200	ROAD CROSS SECTIONS LIGHT STREET
1701289-03-201	3201-03-201	ROAD CROSS SECTIONS LAVENDER STREET (SHEET 1 OF 3)
1701289-03-202	3201-03-202	ROAD CROSS SECTIONS LAVENDER STREET (SHEET 2 OF 3)
1701289-03-203	3201-03-203	ROAD CROSS SECTIONS LAVENDER STREET (SHEET 3 OF 3)
1701289-03-300	3201-03-300	INTERSECTION DETAILS
1701289-03-350	3201-03-350	SIGNAGE & LINE MARKING PLANS
1701289-03-400	3201-03-400	DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 2)
1701289-03-401	3201-03-401	DRAINAGE LONGITUDINAL SECTIONS (SHEET 2 OF 2)
1701289-03-402	3201-03-402	PIT SCHEDULE & TYPICAL HAUNCHING DETAIL
1701289-03-450	NOT USED	PLAN OF SUBDIVISION

TBM Schedule

TBM	Easting	Northing	Level	Description
BW8	325245.00	5838578.92	199.48	STL PIC
BW9	325045.35	5838601.28	199.80	STL PIC
BW15	325130.36	5838348.33	198.61	SPIKE

CITY OF WHITTLESEA

ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE
SUBDIVISION ACT 1988

PLAN OF SUBDIVISION No. PS838327T

[Signature]
DEVELOPMENT ENGINEER

14/12/2021
DATE APPROVED

P2	19.07.21	MHN	<i>[Signature]</i>	ISSUED FOR COUNCIL SUBMISSION
P1	29.10.20	AN	-	CD
REV	DATE	DRN	CKD	APP
				AMENDMENT

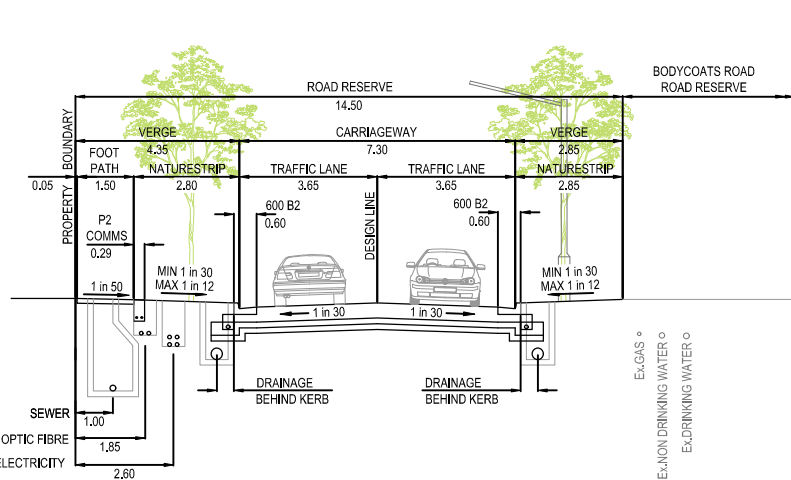
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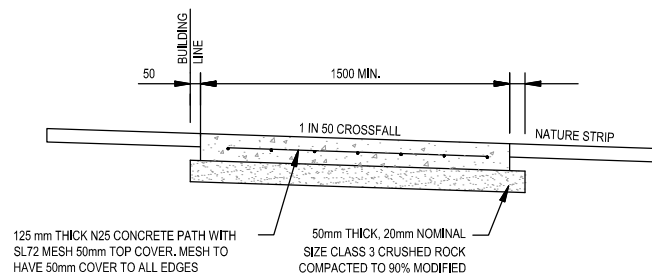
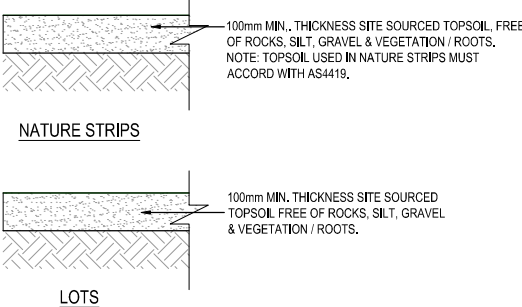
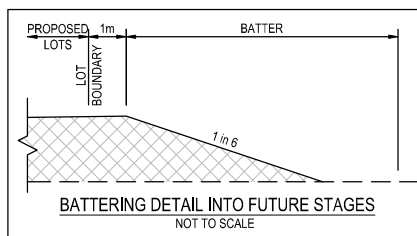
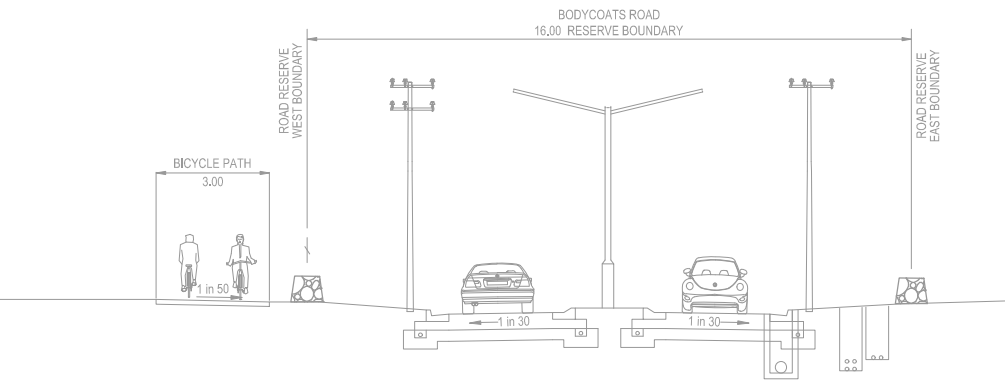
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CLIENT JINDING		PROJECT THE PATCH - STAGE 3	
APPROVED <i>[Signature]</i> 20.07.21		TITLE COVER SHEET	
DESIGNED BW		MUNICIPALITY CITY OF WHITTLESEA	
SCALE AS SHOWN		PP No. 717154	DRAWING No. 3201-03-001
		REVISION P2	

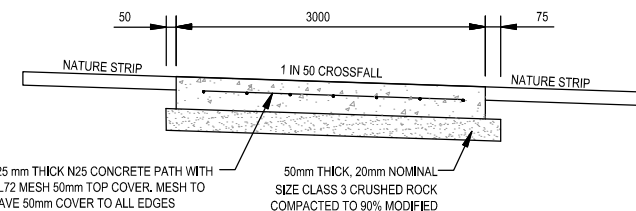
ORIGINAL
SIZE
A1



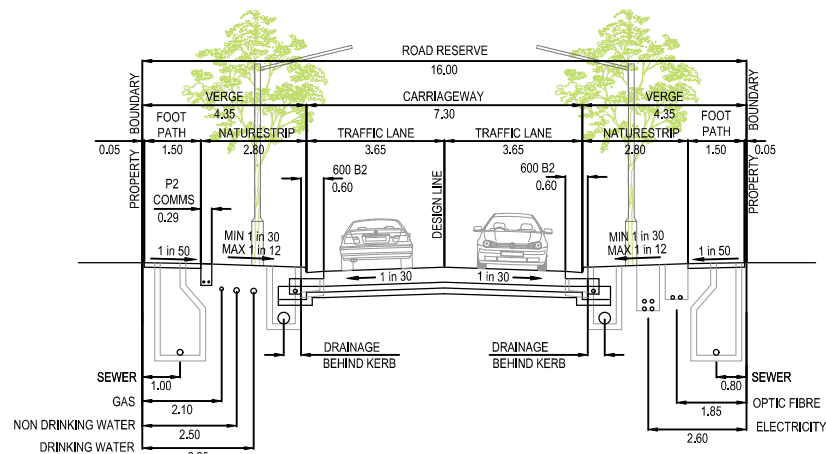
14.5m ROAD RESERVE
LAVENDER STREET
SCALE 1:100



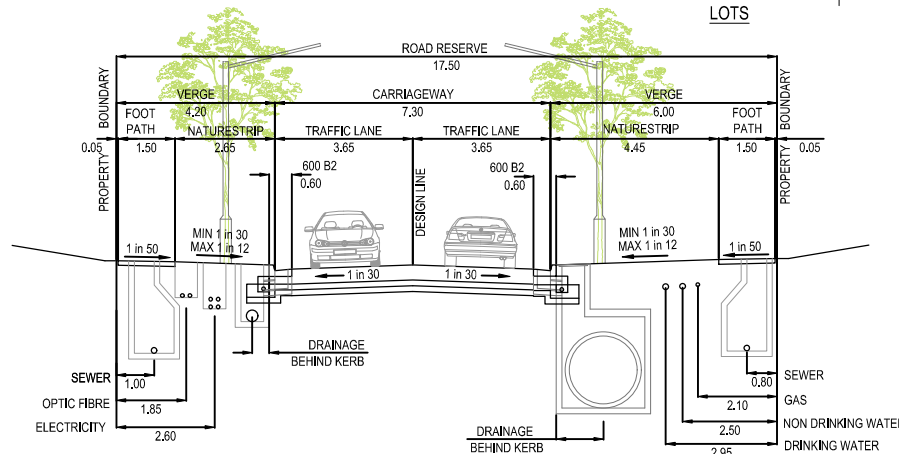
TYPICAL RESIDENTIAL FOOTPATH CROSS SECTION



TYPICAL SHARED PATH CROSS SECTION
NOT TO SCALE

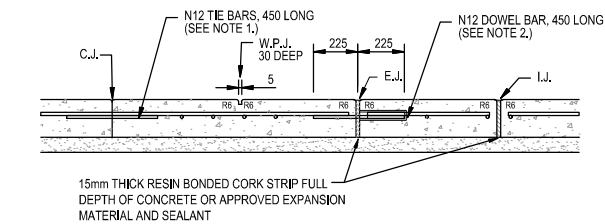


16.0m ROAD RESERVE
LAVENDER STREET
SCALE 1:100



17.5m ROAD RESERVE
LIGHT STREET
SCALE 1:100

TOPSOIL
NOT TO SCALE

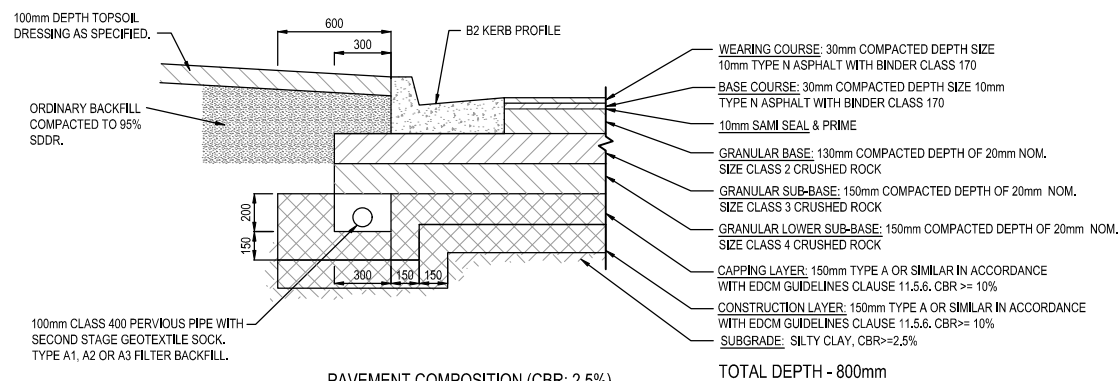


CONCRETE JOINT DETAILS

NOTE:
FOOTPATHS TO BE
CONSTRUCTED AS PER
STANDARD DRAWING EDM 401.

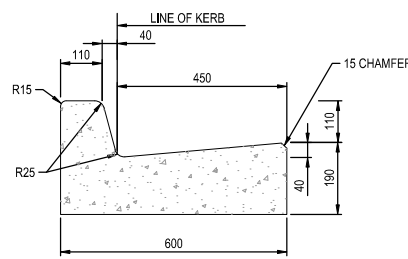
NOTES:

1. TIE BARS TO BE INSTALLED AT 400 MAXIMUM CENTRES COMMENCING 150 FROM EDGE.
2. DOWEL BARS TO BE INSTALLED AT 400 CENTRES COMMENCING AT A MINIMUM OF 100 AND A MAXIMUM OF 200 FROM THE EDGE OF PATH. 16 DIAMETER PVC SLEEVE WITH END CAP OR CLOSED END TO BE FITTED TO ONE END OF THE BAR. DOWEL BARS TO BE SECURELY TIED TO LONGITUDINAL REINFORCING MESH.
3. EXPANSION JOINTS (E.J.) LOCATED BOTH SIDE OF VEHICLE CROSSING AND AT A MAXIMUM OF 12m CENTRES.
4. WEAKENED PLANE JOINTS LOCATED AT SPACINGS EQUAL TO THE WIDTH OF THE PATH AND MADE WITH A T' IRON OR CONCRETE SAW CUT.
5. IN SHARED PATHS WEAKENED PLANE JOINTS MUST BE MADE BY CONCRETE SAW CUTTING.
6. CONCRETE TO BE LIGHT BROOM FINISH WITH EDGE AND JOINTS NEATLY TOOLED AFTER THE BROOM IS APPLIED.
7. ALL FINISHED SURFACES TO COMPLY WITH AS 4586 SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIAL.
8. THE USE OF COLOURED CONCRETE MUST BE APPROVED BY COUNCIL. MINIMUM STRENGTH OF COLOURED CONCRETE TO BE 32 MPa.
9. FORMWORK TIMBER TO BE MIN. 125mm DEEP.
10. ALL DIMENSIONS IN MILLIMETRES.
11. SHARED PATHS TO BE 2.5m IN WIDTH MINIMUM. REFER TO APPROVED CONSTRUCTION PLANS FOR ACTUAL WIDTH.

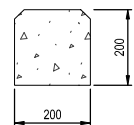


PAVEMENT COMPOSITION (CBR: 2.5%)
CERULEAN STREET AND TEAGREEN STREET

REFER STANDARD DRAWING
EDCM 202 FOR DETAILS.

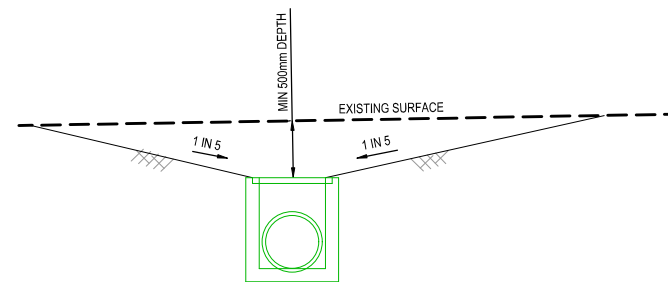


600 WIDE BARRIER
KERB (600 B2) DETAIL
SCALE 1:10



200mm EDGE STRIP DETAIL
SCALE 1:10

REFER STANDARD DRAWING
EDCM 301 & 302 FOR DETAILS.

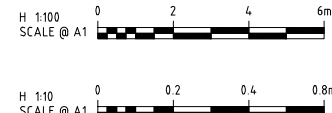


TYPICAL SECTION OF TEMPORARY SWALE
WITH OR WITHOUT DRAINAGE
N.T.S.

NOTE:
MINIMUM LONGITUDINAL GRADE OF 1 IN 300.
TEMPORARY SWALE TO BE CONSTRUCTED WITH
ENVIRONMENTAL CONTROLS, SAFE BATTERS &
FENCING, IF REQUIRED.

P2	19.07.21	MHN	<i>[Signature]</i>	ISSUED FOR COUNCIL SUBMISSION
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REV	DATE	DRN	CKD	APP
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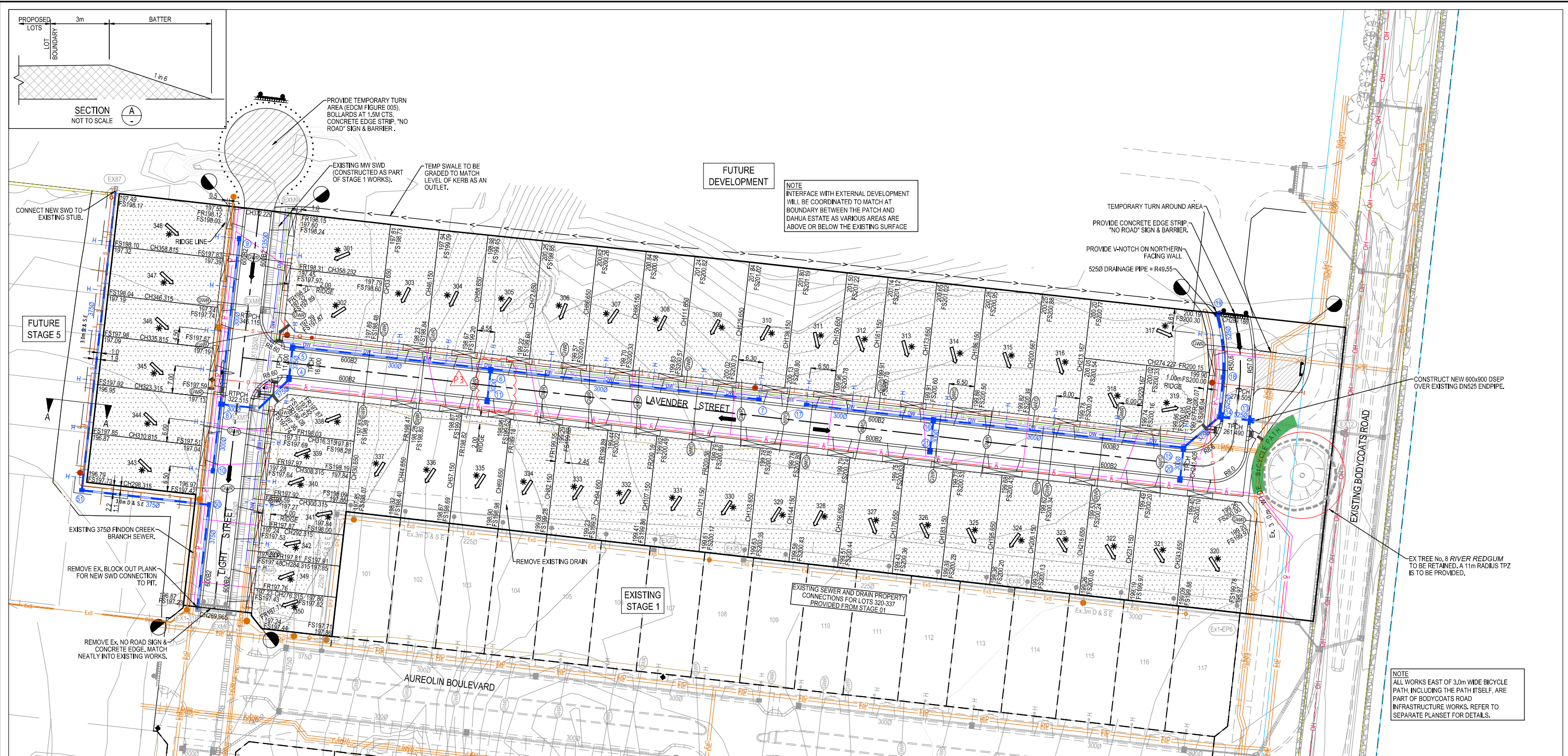
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JINDING
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[Signature] 20.07.21
DESIGNED
BW
SCALE
AS SHOWN

PROJECT
THE PATCH - STAGE 3
TITLE
TYPICAL ROAD CROSS SECTIONS,
PAVEMENT MAKEUP & GENERAL DETAILS
CITY OF WHITTLESEA
MUNICIPALITY
717154
DRAWING No.
3201-03-002
REVISION
P2

CITY OF WHITTLESEA
ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE
SUBDIVISION ACT 1988
PLAN OF SUBDIVISION No. PS838327T
[Signature]
DEVELOPMENT ENGINEER
14/12/2021
DATE APPROVED

A1
ORIGINAL SIZE



SERVICE OFFSET TABLE

Location	Gas		ND - Water		Water		Electricity		Telecommunication		Sewer	
	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)
LAVENDER STREET (16m)	N	2.10	N	2.50	N	2.95	S	2.60	S	1.90	N	1.00
LAVENDER STREET (14.5m)	E	Ex.	E	Ex.	E	Ex.	E	1.90	E	2.60	W	1.00
LIGHT STREET	E	2.10	E	2.50	E	2.95	W	2.60	W	1.90	W	1.00

NOTE: STREET TREES ARE TO BE PLANTED IN THE CENTRE OF ALL NATURE STRIPS

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	Stn/East	Nth/West	Stn/East
LAVENDER STREET	ACCESS STREET	16.0	6.40	7.30	7.60	600B2	600B2	2.65	2.65
LIGHT STREET	ACCESS STREET	17.5	6.40	7.30	7.60	600B2	600B2	2.50	4.30

LEGEND - LAYOUT PLAN

STORMWATER DRAIN, PIT & PROPERTY INLET	EXISTING STORMWATER DRAIN	141.34	EXISTING SURFACE LEVEL
MELBOURNE WATER DRAIN & PIT	EXISTING ELECTRICITY (UNDERGROUND)	FR197.40	FINISHED BUILDING LINE LEVEL
SWALE DRAIN	EXISTING ELECTRICITY (OVERHEAD)	FR197.40	FINISHED RIDGE LINE LEVEL
SEWER & MAINTENANCE STRUCTURES	EXISTING GAS	FR197.40	TOP OF RETAINING WALL
HOUSE DRAIN	EXISTING OPTIC FIBRE	FR197.40	BOTTOM OF RETAINING WALL
SERVICE CONDUITS	EXISTING TELECOMMUNICATIONS	FR197.40	RIDGE LINE
ELECTRICITY (UNDERGROUND)	EXISTING WATER	FR197.40	RETAINING WALL
ELECTRICITY (OVERHEAD)	EXISTING RECYCLED WATER	FR197.40	ZERO LOT LINES
OPTIC FIBRE	EXISTING SEWER	FR197.40	PAVEMENT TREATMENT
TELECOMMUNICATIONS	EXISTING HOUSE DRAIN	FR197.40	STRUCTURAL FILL > 200mm DEEP
GAS	EXISTING SWALE DRAIN	FR197.40	EX. STRUCTURAL FILL > 200mm DEEP
WATER	TACTILE PAVERS (INDICATIVE ONLY)	FR197.40	
RECYCLED WATER		FR197.40	

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
BOLLARD	LIMIT OF WORKS
EXISTING TREE TO BE REMOVED	PERMANENT SURVEY MARK
PROPOSED DRIVEWAY	PROPOSED DRIVEWAY
TREE PROTECTION ZONE (TPZ)	

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H 1500
SCALE @ A1
0 10 20 30m

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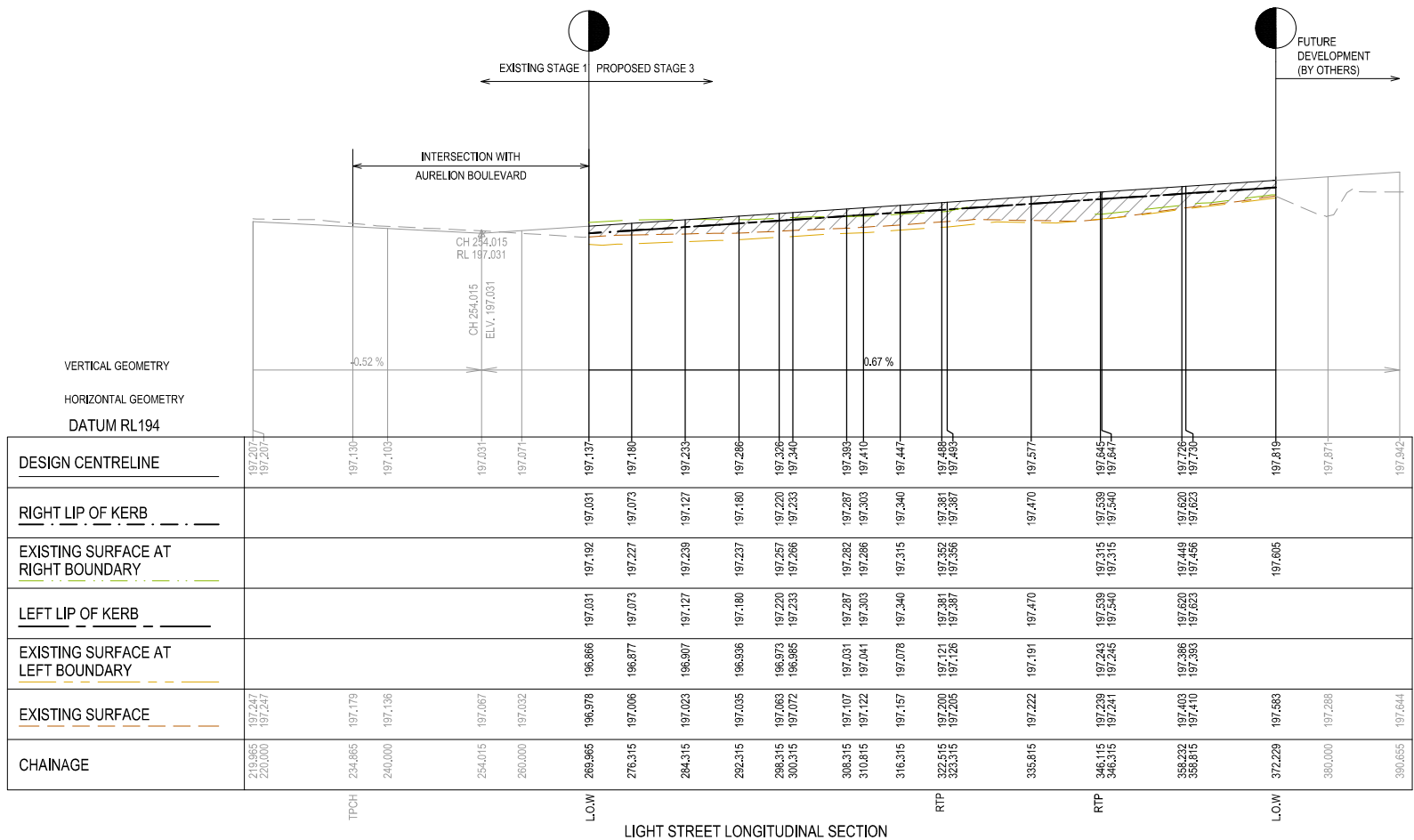
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CITY OF WHITTLESEA
PP No.
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REVISION
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ORIGINAL
SIZE
A1

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H66
DEVELOPMENT ENGINEER
14/12/2021
DATE APPROVED

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB
	STRUCTURAL FILL, REFER GEOTECH REPORT BY GROUND SCIENCE, REF. NO. G3869.1 AA



CITY OF WHITTLESEA

ENGINEERING PLANS & SPECIFICATIONS

APPROVED PURSUANT TO SECTION 15 OF THE SUBDIVISION ACT 1988

PLAN OF SUBDIVISION No. **PS838327T**

DEVELOPMENT ENGINEER

14/12/2021

DATE APPROVED

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CLIENT

APPROVED

20.07.21

DESIGNED

BW

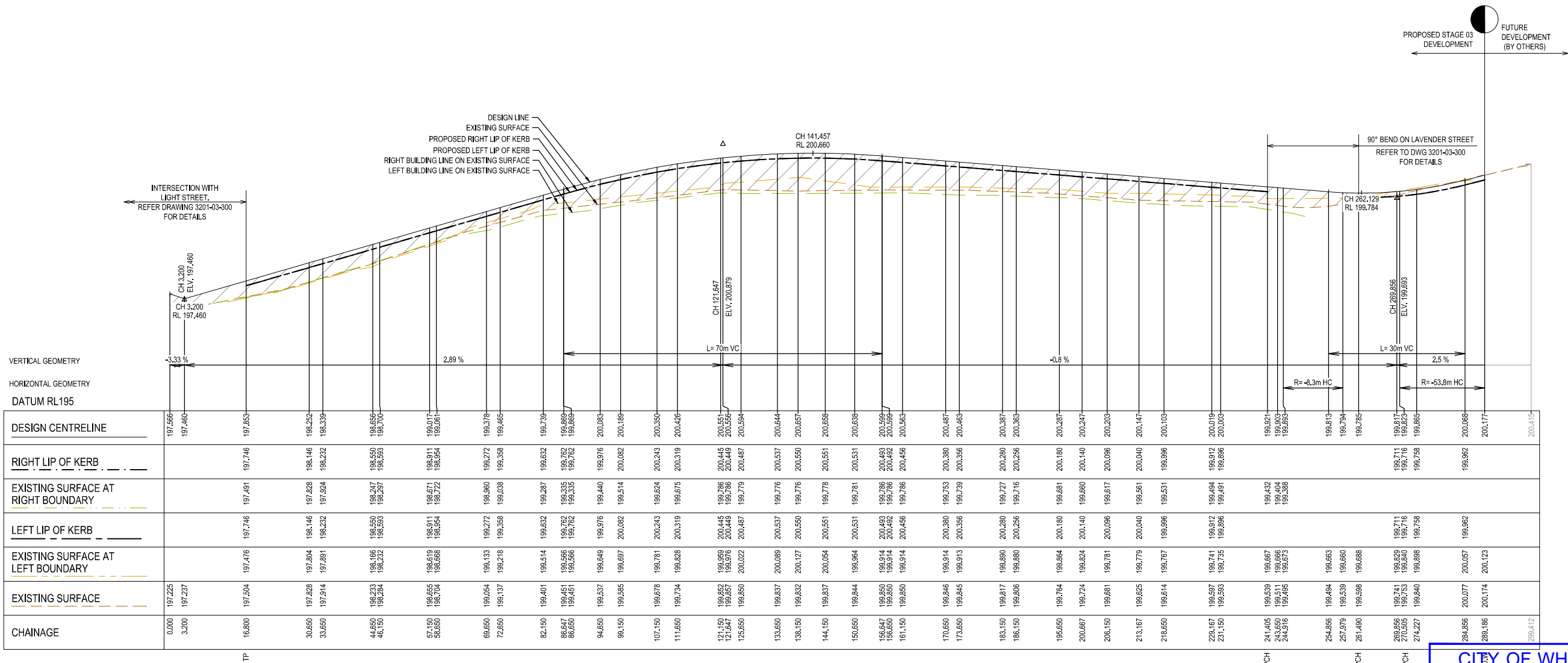
SCALE

AS SHOWN

PROJECT	THE PATCH - STAGE 3		
TITLE	ROAD LONGITUDINAL SECTIONS LIGHT STREET		
MUNICIPALITY	CITY OF WHITTLESEA		
PPNo.	717154	DRAWING No.	3201-03-100
REVISION	P2		

ORIGINAL SIZE
A1

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB
	STRUCTURAL FILL, REFER GEOTECH REPORT BY GROUND SCIENCE, REF. NO. G3889.1 AA



LAVENDER STREET - LONGITUDINAL SECTION

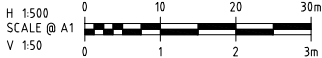
CITY OF WHITTLESEA
ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE
SUBDIVISION ACT 1988
PLAN OF SUBDIVISION No. **PS838327T**

DEVELOPMENT ENGINEER

14/12/2021
DATE APPROVED

P2	19.07.21	MHN		ISSUED FOR COUNCIL SUBMISSION
P1	29.10.20	AN	-	ISSUED FOR INFORMATION
REV	DATE	DRN	CKD	APP
				AMENDMENT

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CLIENT
JINDING

APPROVED 20.07.21

DESIGNED BW

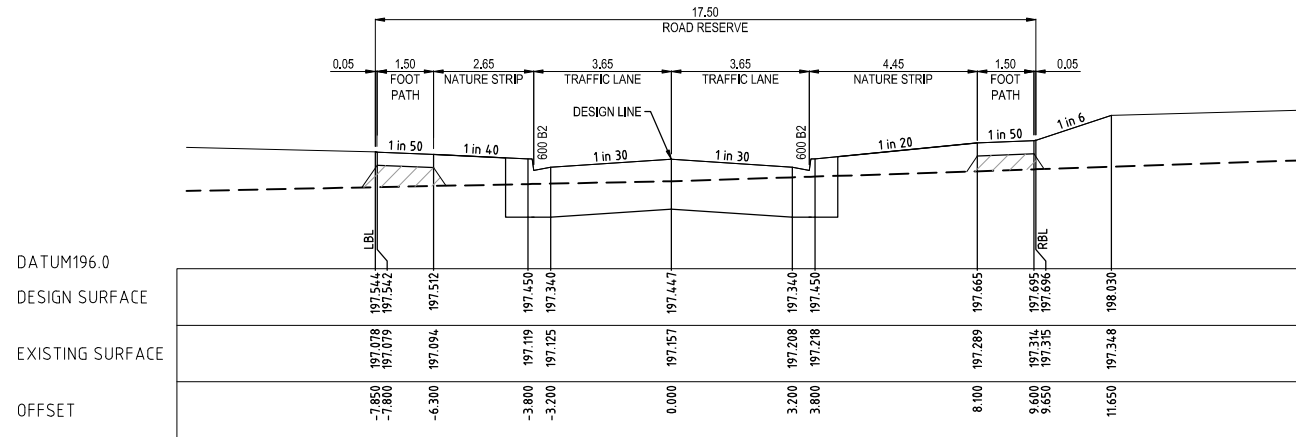
SCALE AS SHOWN

PROJECT	THE PATCH - STAGE 3		
TITLE	ROAD LONGITUDINAL SECTIONS LAVENDER STREET		
MUNICIPALITY	CITY OF WHITTLESEA		
PPNo.	717154	DRAWING No.	3201-03-101
REVISION	P2		

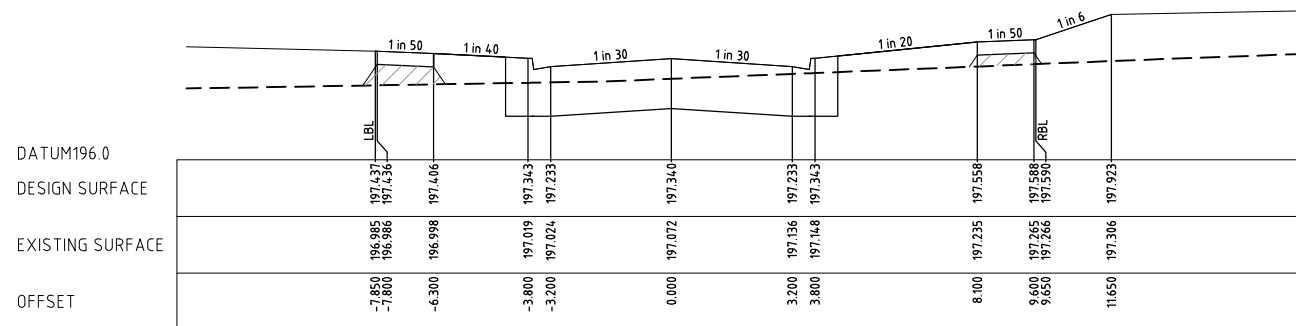
ORIGINAL SIZE
A1

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

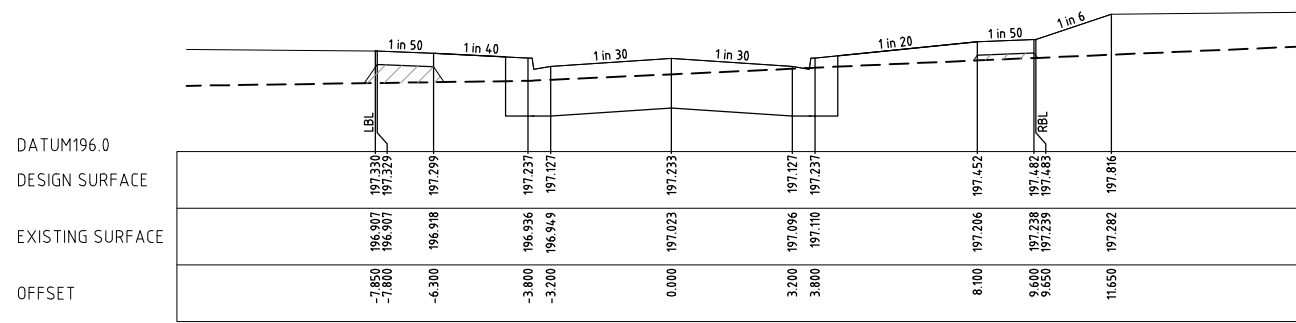
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	STRUCTURAL FILL, REFER GEOTECH REPORT BY GROUND SCIENCE, REF. NO. G3869.1 AA



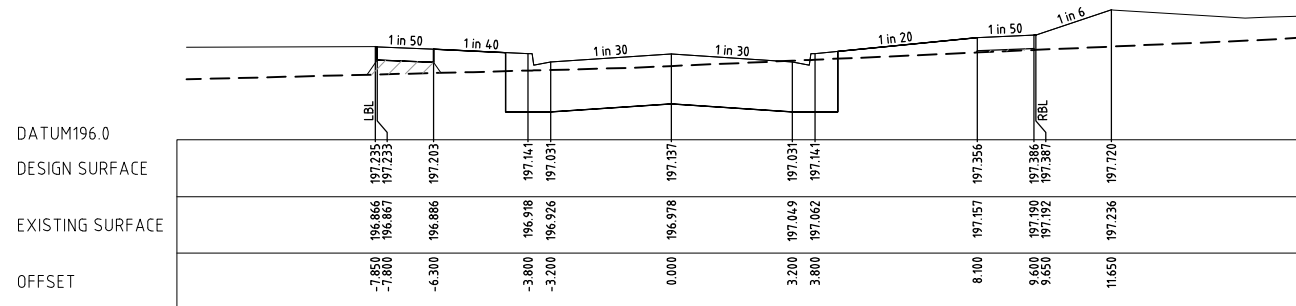
CH 316.315



CH 300.315

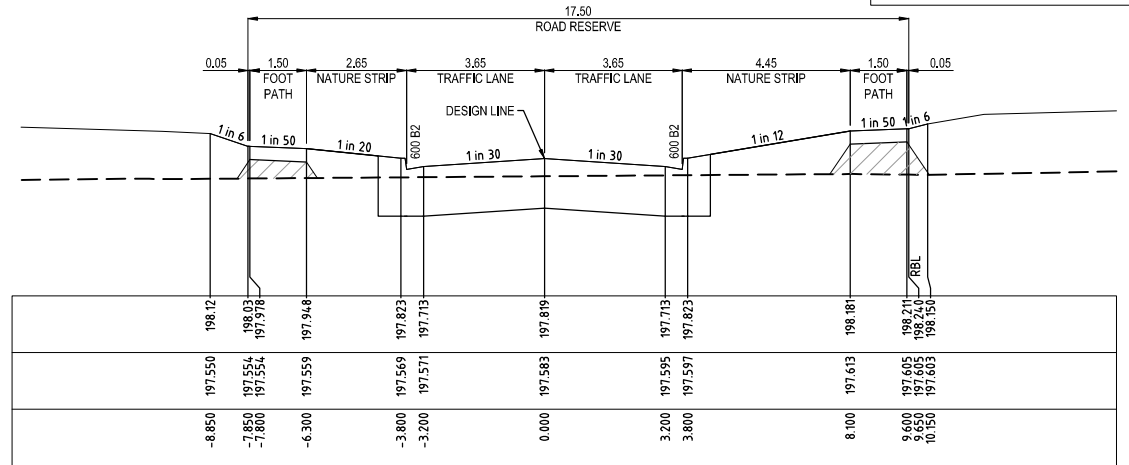


CH 284.315

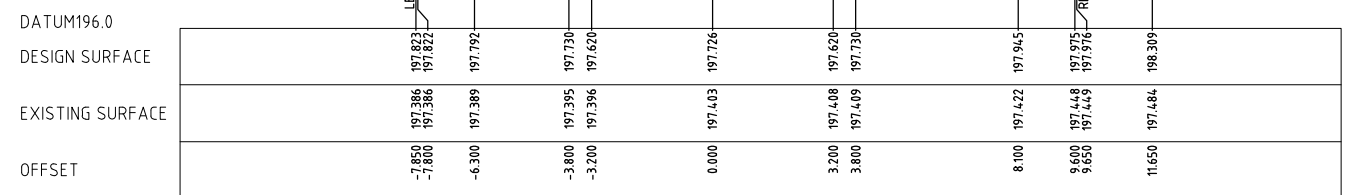


CH 269.965

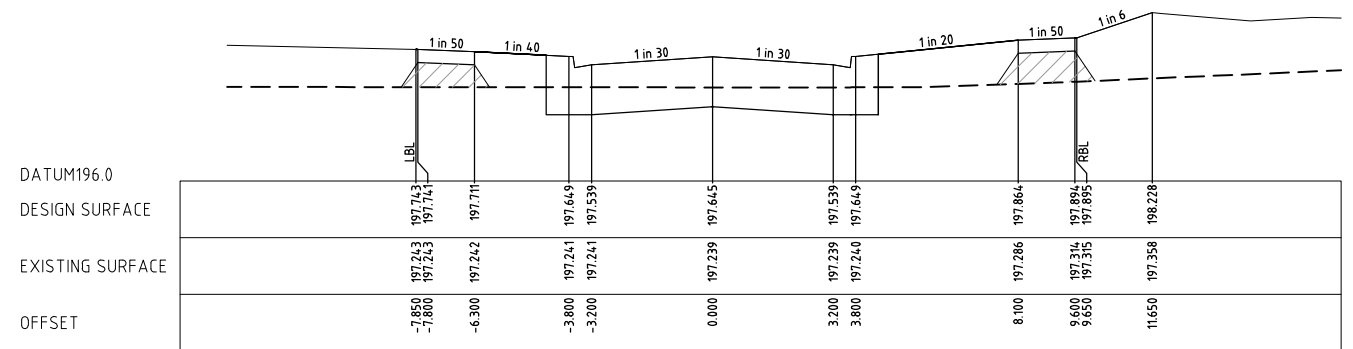
MATCH INTO EXISTING STAGE 1 WORKS



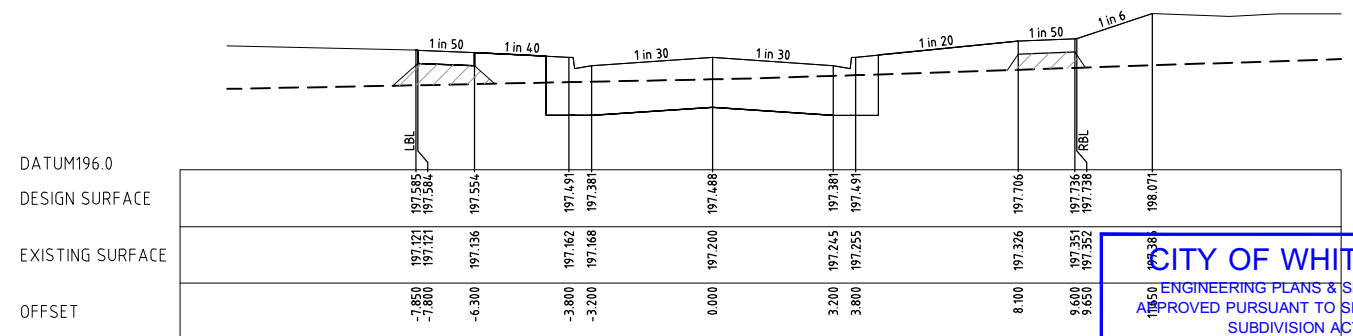
CH 372.229
(LIMIT OF STAGE 3 WORKS)



CH 358.232



LTPCH CH 346.115



LTPCH CH 322.515

CITY OF WHITTLESEA
ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE
SUBDIVISION ACT 1988
PLAN OF SUBDIVISION No. **PS838327T**
DEVELOPMENT ENGINEER
14/12/2021
DATE APPROVED

P2	19.07.21	MHN		ISSUED FOR COUNCIL SUBMISSION
P1	29.10.20	AN	-	ISSUED FOR INFORMATION
REV	DATE	DRN	CKD	APP

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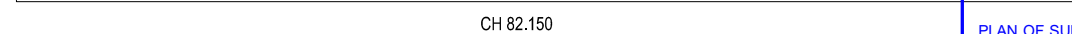
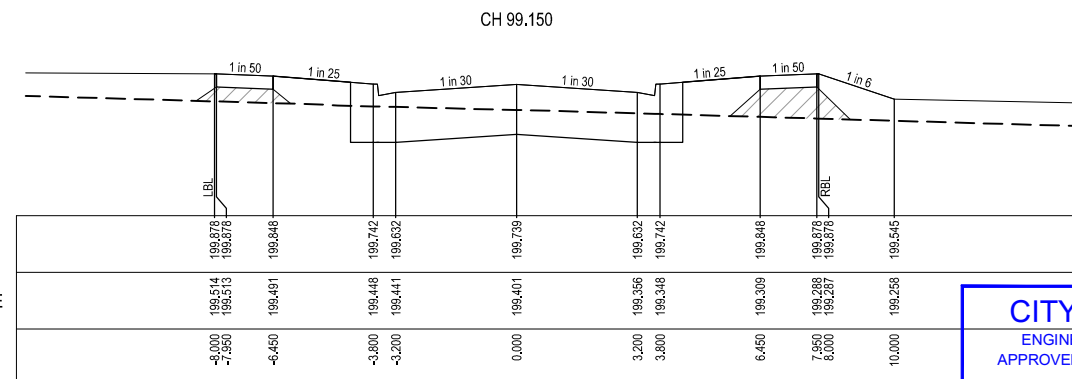
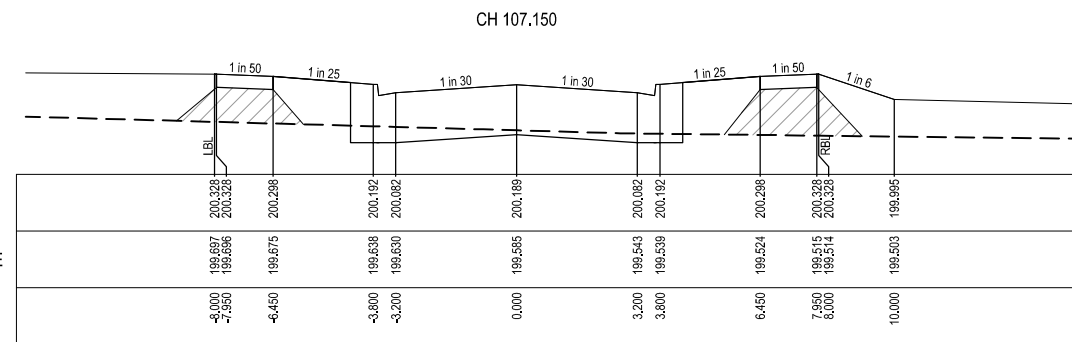
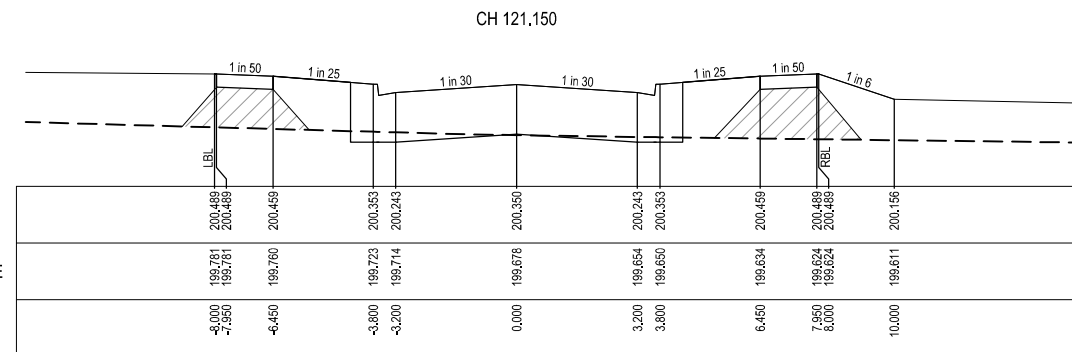
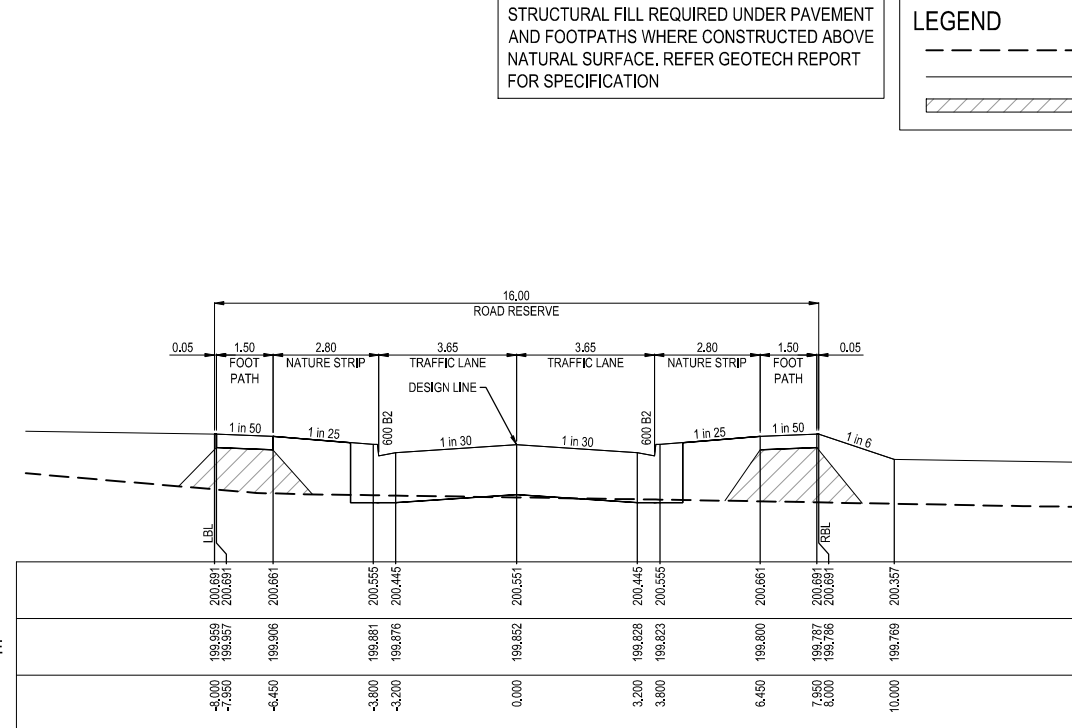
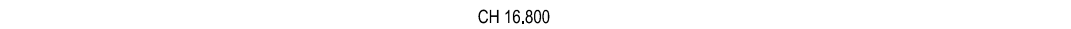
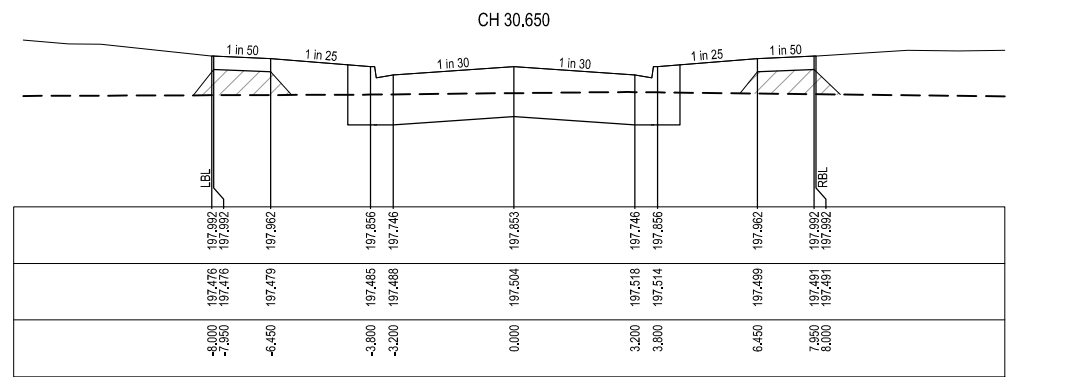
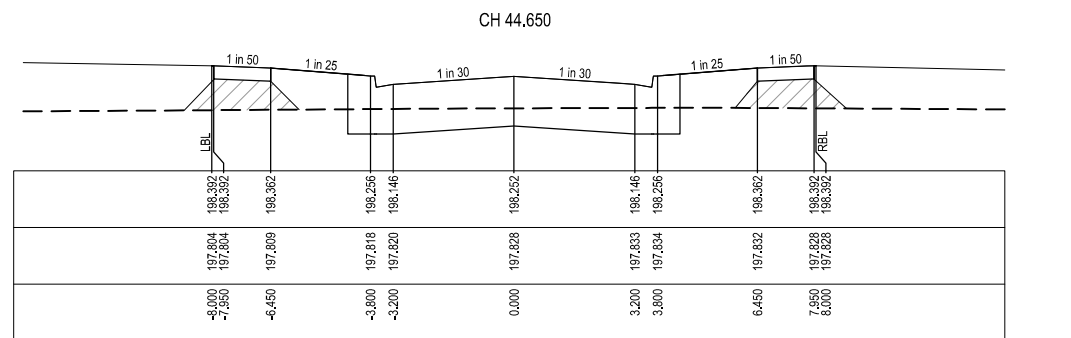
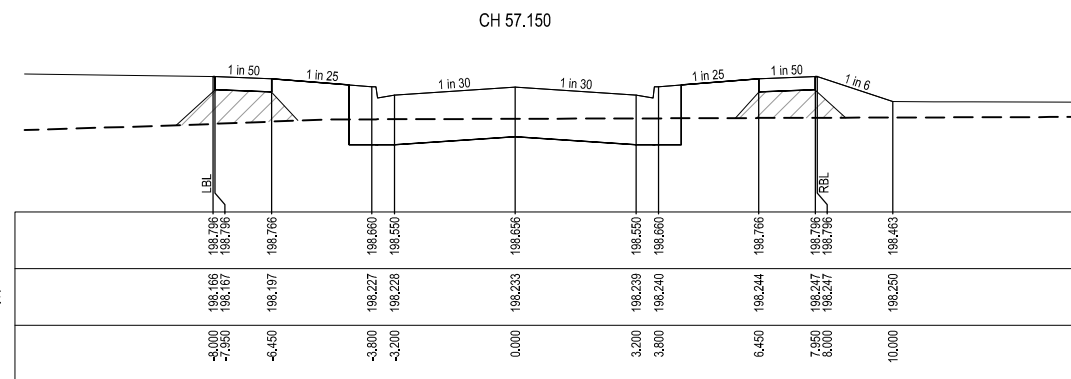
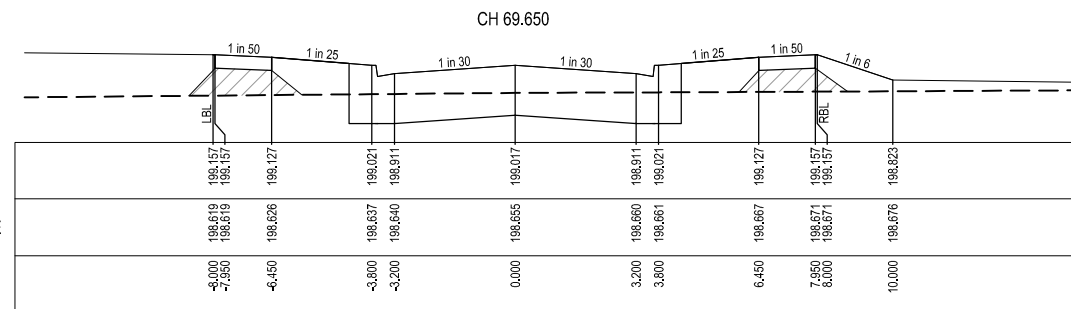
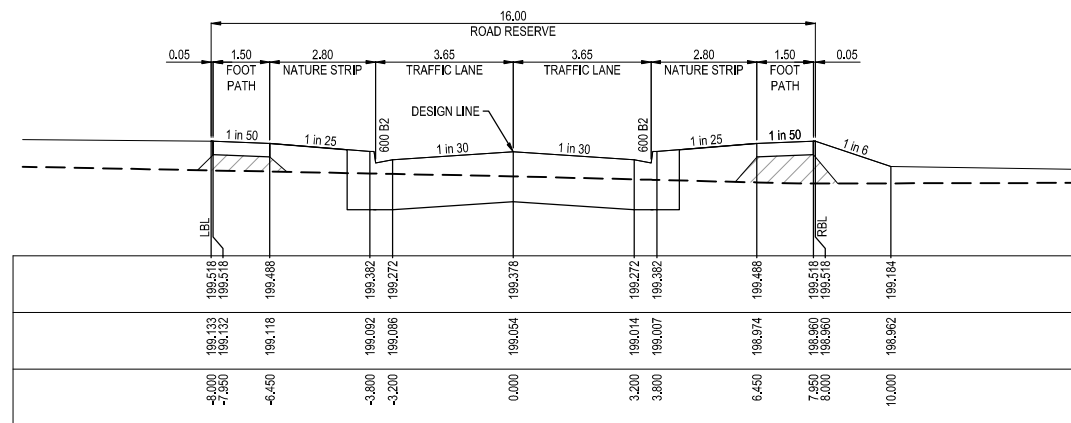
CW Cossill & Webley CONSULTING ENGINEERS
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20.07.21
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BW
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AS SHOWN

PROJECT
THE PATCH - STAGE 3
TITLE
ROAD CROSS SECTIONS LIGHT STREET
MUNICIPALITY
CITY OF WHITTLESEA
PPNo.
717154
DRAWING No.
3201-03-200
REVISION
P2

ORIGINAL SIZE
A1



LEGEND

---	EXISTING SURFACE
---	DESIGN SURFACE
///	STRUCTURAL FILL. REFER GEOTECH REPORT BY GROUND SCIENCE, REF. NO. G3869.1 AA

P2	19.07.21	MHN	<i>[Signature]</i>	ISSUED FOR COUNCIL SUBMISSION
P1	29.10.20	AN	-	ISSUED FOR INFORMATION
REV	DATE	DRN	CKD	APP
				AMENDMENT

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[Signature] 20.07.21

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BW

SCALE
AS SHOWN

PROJECT
THE PATCH - STAGE 3

TITLE
ROAD CROSS SECTIONS LAVENDER STREET (SHEET 1 OF 3)
CITY OF WHITTLESEA

MUNICIPALITY
PP No. 717154

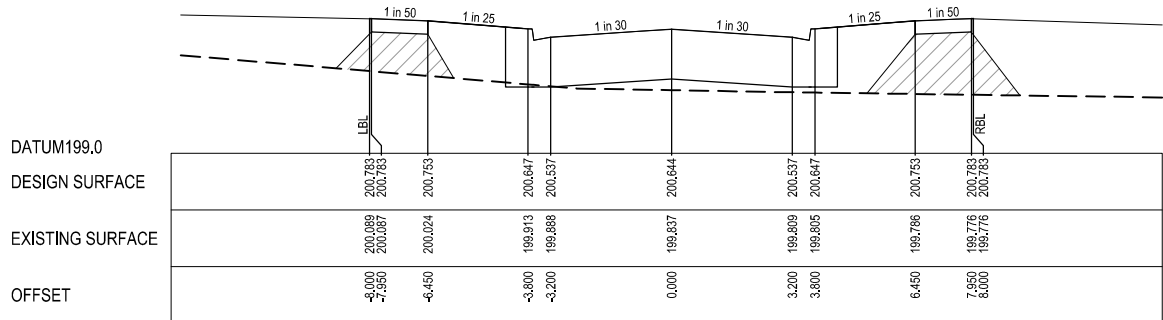
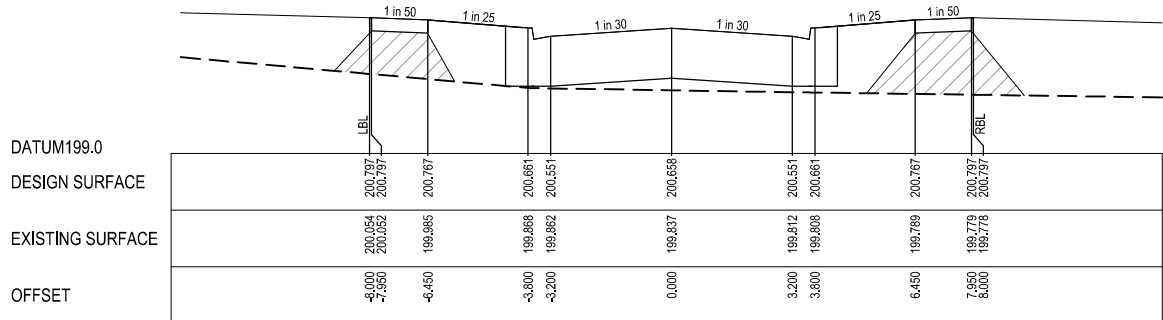
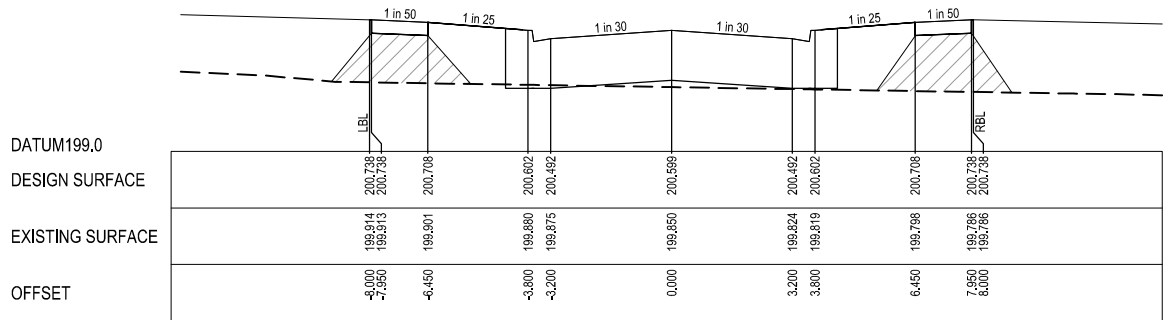
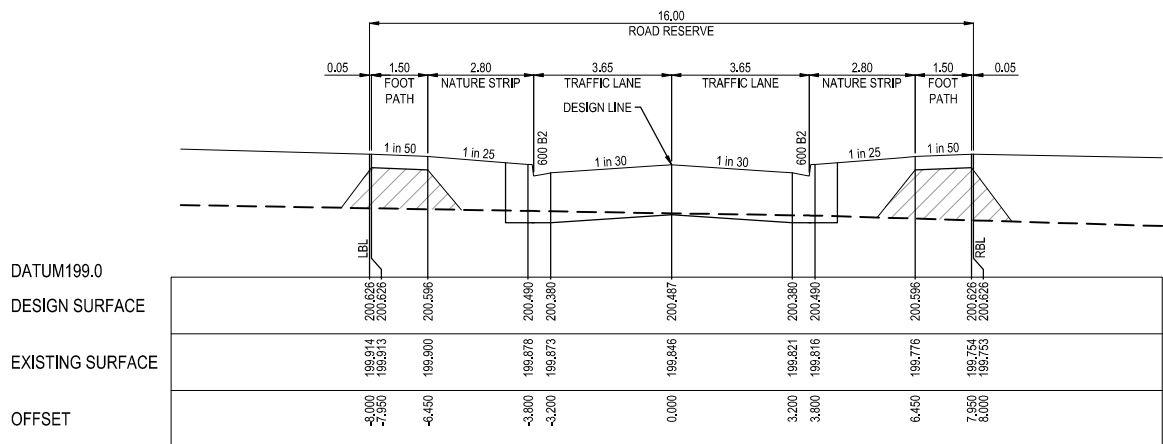
DRAWING No. 3201-03-201

REVISION
P2

14/12/2021
DATE APPROVED

A1
ORIGINAL SIZE

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION



DATUM199.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET

CH 231.150

DATUM199.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET

CH 218.650

DATUM199.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET

CH 206.150

DATUM199.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET

CH 195.650

DATUM199.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET

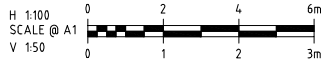
CH 183.150

LEGEND

--- EXISTING SURFACE
— DESIGN SURFACE
STRUCTURAL FILL, REFER GEOTECH REPORT BY GROUND SCIENCE, REF. NO. G3869.1 AA

P2	19.07.21	MHN	<i>[Signature]</i>	ISSUED FOR COUNCIL SUBMISSION
P1	29.10.20	AN	-	ISSUED FOR INFORMATION
REV	DATE	DRN	CKD	APP
				AMENDMENT

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SCALE
AS SHOWN

PROJECT
THE PATCH - STAGE 3
TITLE
ROAD CROSS SECTIONS LAVENDER STREET (SHEET 2 OF 3)
CITY OF WHITTLESEA
MUNICIPALITY
PP No. 717154
DRAWING No. 3201-03-202
REVISION
P2

CITY OF WHITTLESEA
ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE SUBDIVISION ACT 1988

PLAN OF SUBDIVISION No. PS838327T

[Signature]
DEVELOPMENT ENGINEER

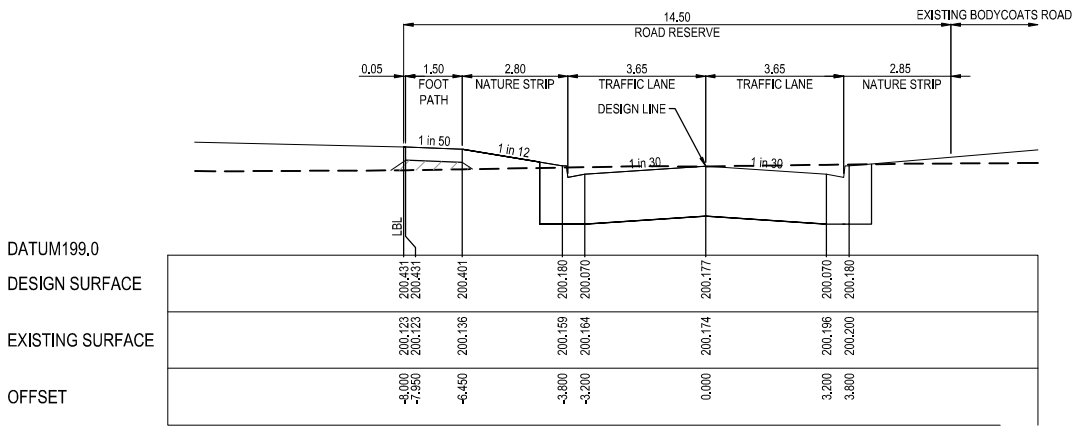
14/12/2021
DATE APPROVED

ORIGINAL SIZE
A1

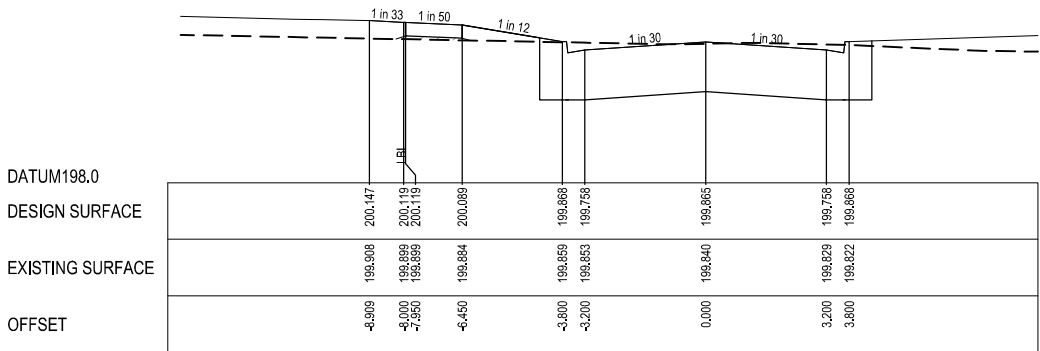
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

LEGEND

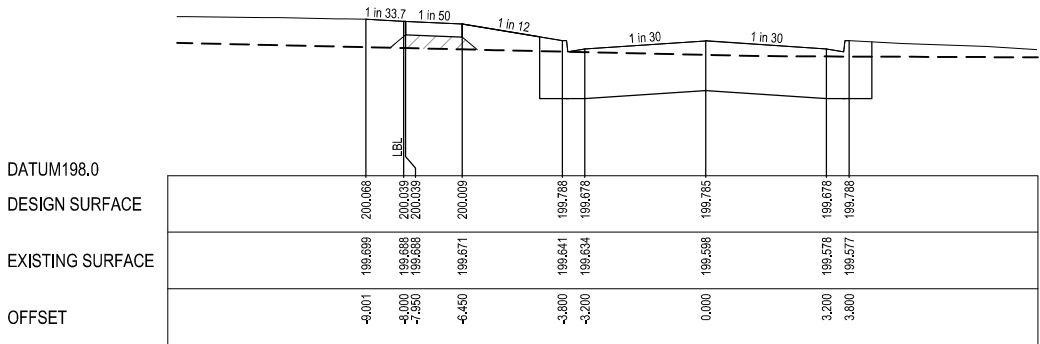
- EXISTING SURFACE
— DESIGN SURFACE
STRUCTURAL FILL. REFER GEOTECH REPORT BY GROUND SCIENCE, REF. NO. G3869.1 AA



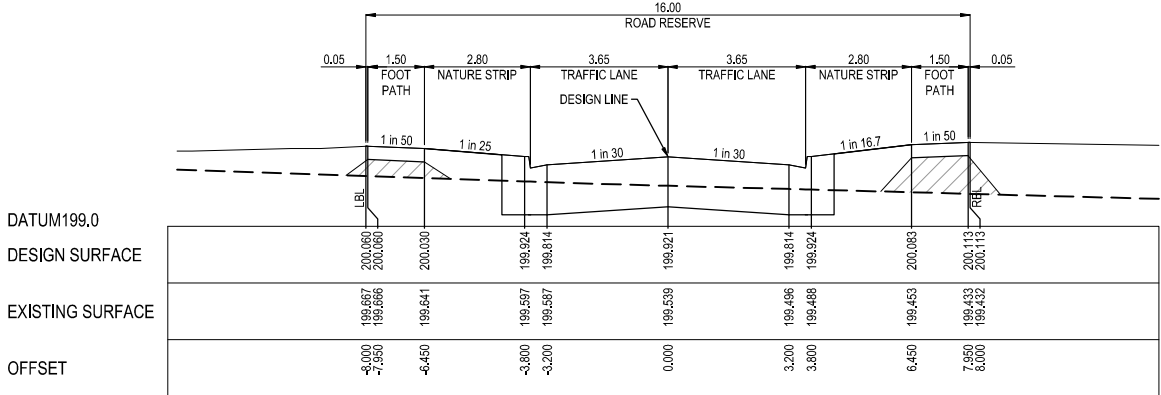
CH 289.186
(LIMIT OF STAGE 3 WORKS)



CH 274.227



TPCH 261.490



TPCH 241.405

CITY OF WHITTLESEA

ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE
SUBDIVISION ACT 1988

PLAN OF SUBDIVISION No. PS838327T

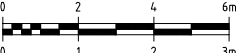
H.62
DEVELOPMENT ENGINEER

14/12/2021
DATE APPROVED

P2	19.07.21	MHN	<i>R. J. J. J.</i>	ISSUED FOR COUNCIL SUBMISSION
P1	29.10.20	AN	-	ISSUED FOR INFORMATION
REV	DATE	DRN	CKD	APP
				AMENDMENT

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H 1:100
SCALE @ A1
V 1:50



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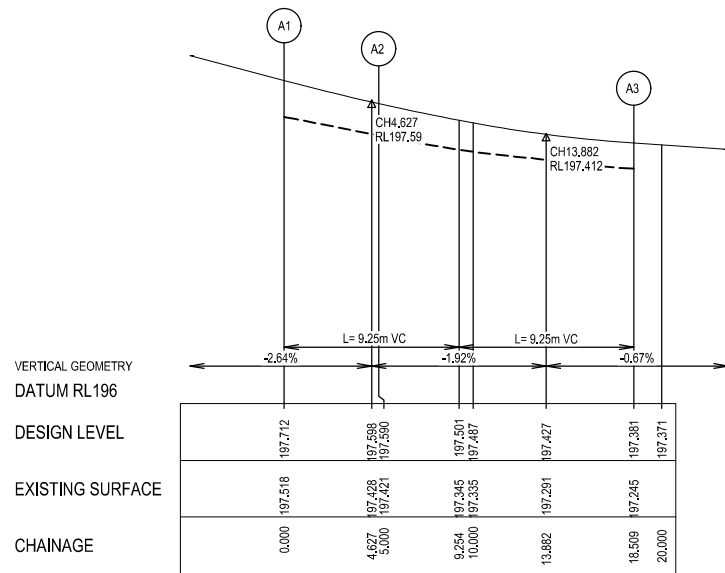
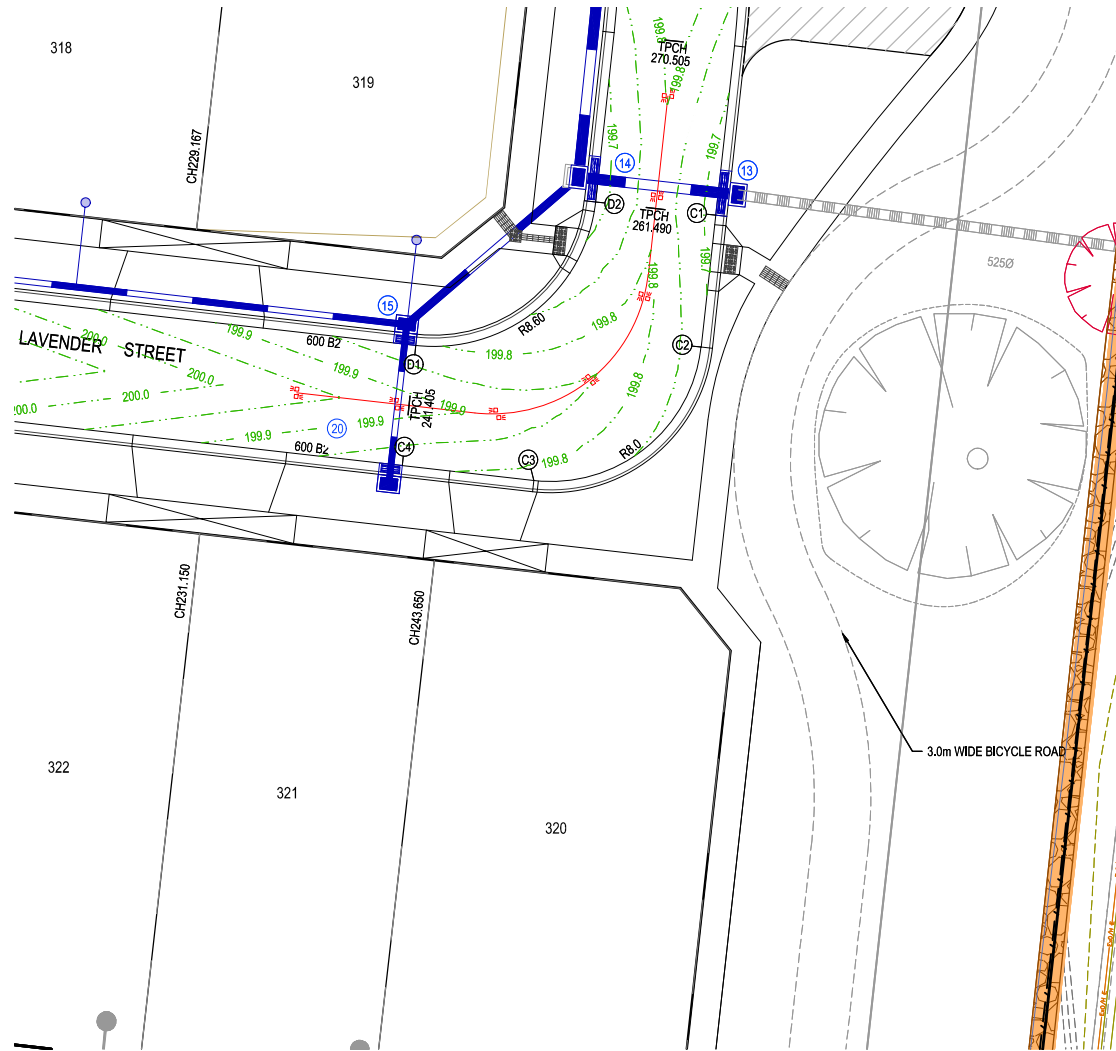
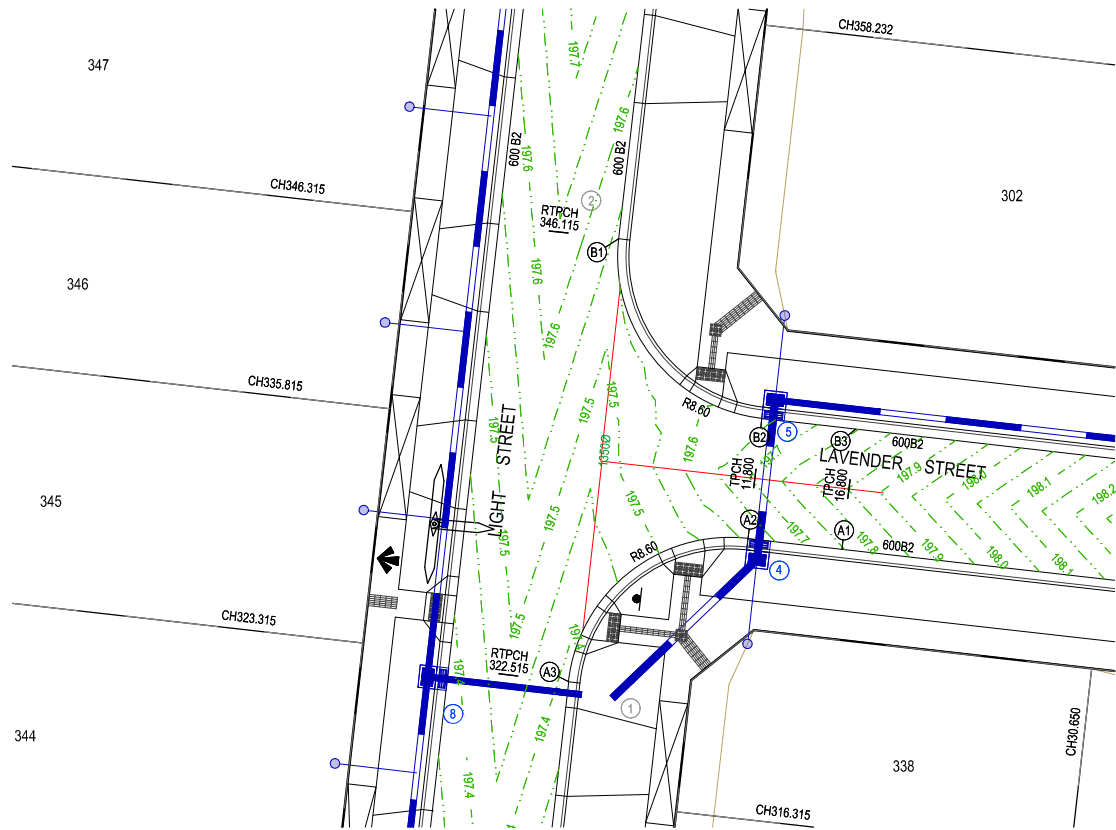
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Street Address
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E melbourne@cosweb.com.au

CLIENT	JINDING
APPROVED	20.07.21 <i>J. J. J.</i>
DESIGNED	BW
SCALE	AS SHOWN

PROJECT	THE PATCH - STAGE 3
TITLE	ROAD CROSS SECTIONS LAVENDER STREET (SHEET 3 OF 3)
MUNICIPALITY	CITY OF WHITTLESEA
PP No.	717154
DRAWING No.	3201-03-203
REVISION	P2

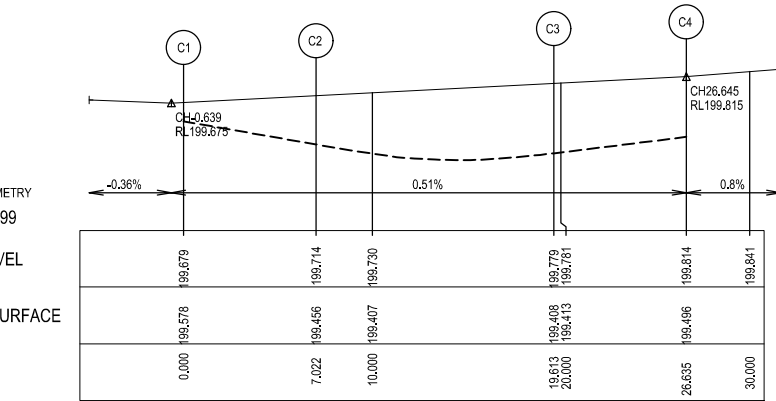
ORIGINAL SIZE
A1



Alignment A

Point no	Easting	Northing	RL
A1	324979.315	5838581.435	197.712
A2	324974.347	5838581.998	197.590
A3	324964.833	5838574.421	197.381

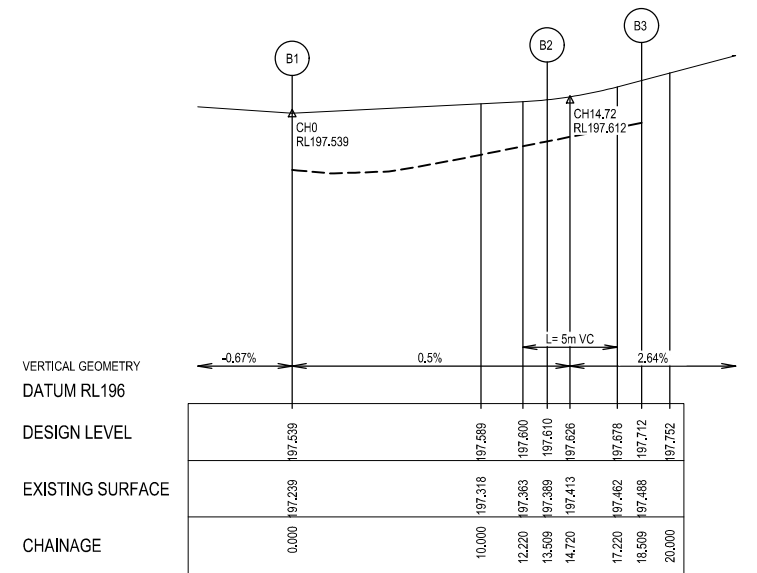
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
A2 - A3	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	197.457



Alignment C

Point no	Easting	Northing	RL
C1	325219.090	5838569.400	199.679
C2	325218.321	5838562.421	199.714
C3	325209.468	5838555.348	199.779
C4	325202.491	5838556.138	199.814

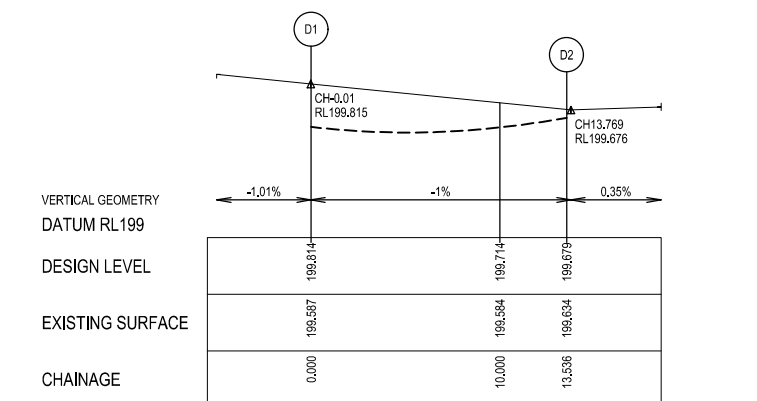
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
C2 - C3	90.179	8.000	12.591	2.352	1.741	3.067	2.598	3.148	199.747



Alignment B

Point no	Easting	Northing	RL
B1	324967.491	5838597.871	197.539
B2	324975.068	5838588.357	197.610
B3	324980.036	5838587.794	197.712

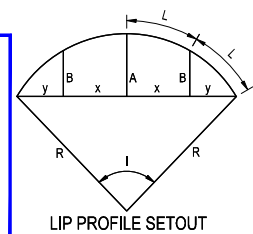
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
B1 - B2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	197.457



Alignment D

Point no	Easting	Northing	RL
D1	325203.211	5838562.498	199.814
D2	325212.728	5838570.101	199.679

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
D1 - D2	90.179	8.600	13.536	2.528	1.871	3.297	2.793	3.384	199.747

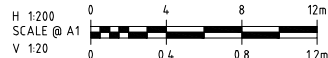


LEGEND

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MELBOURNE WATER DRAIN & PIT
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	TACTILE PAVERS (INDICATIVE ONLY)
	EXISTING HOUSE DRAIN
	RETAINING WALL
	PAVEMENT TREATMENT
	CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	LIMIT OF WORKS
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY

P2	19.07.21	MHN		ISSUED FOR COUNCIL SUBMISSION
P1	29.10.20	AN	-	ISSUED FOR INFORMATION
REV	DATE	DRN	CKD	APP
				AMENDMENT

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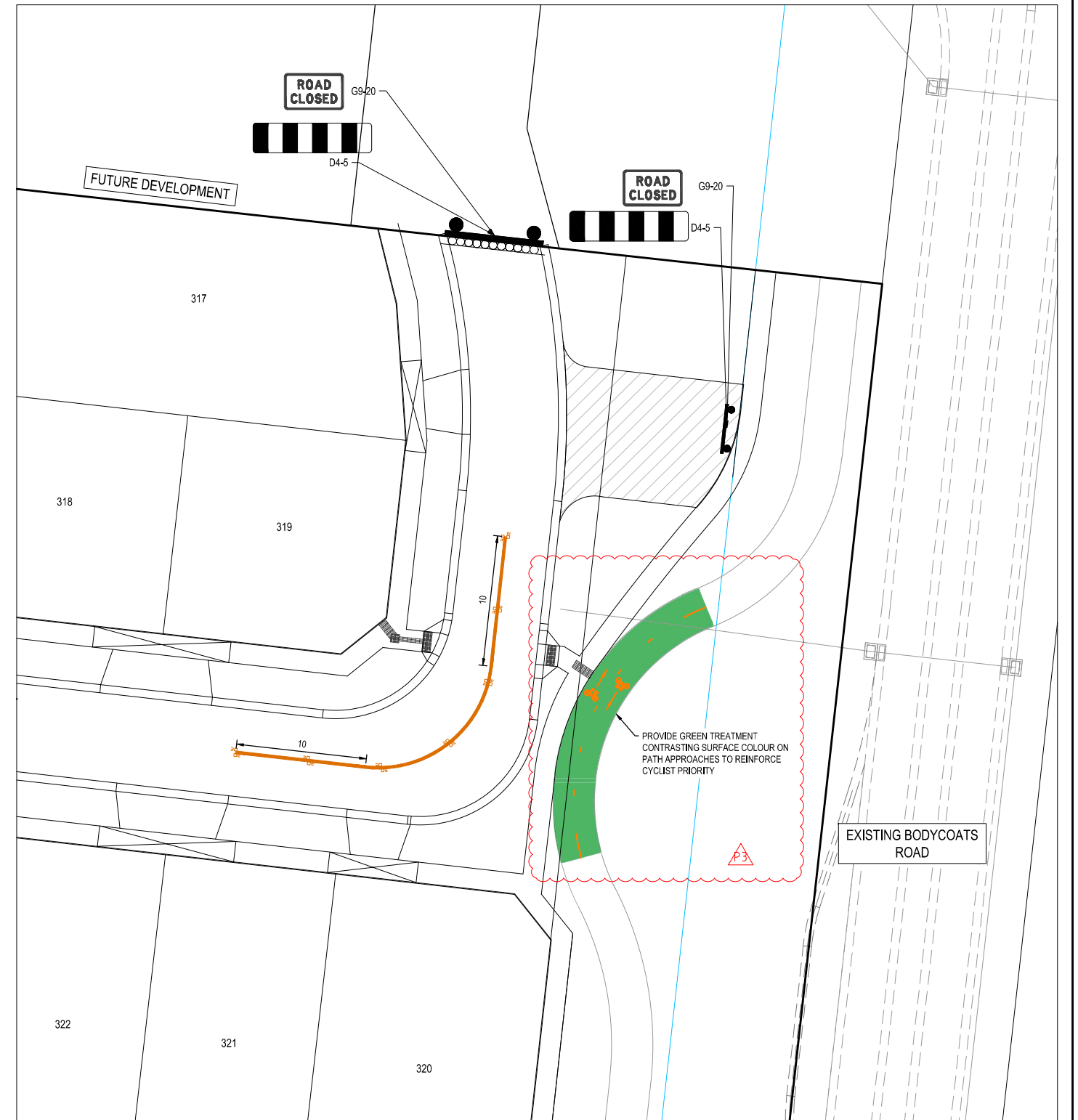
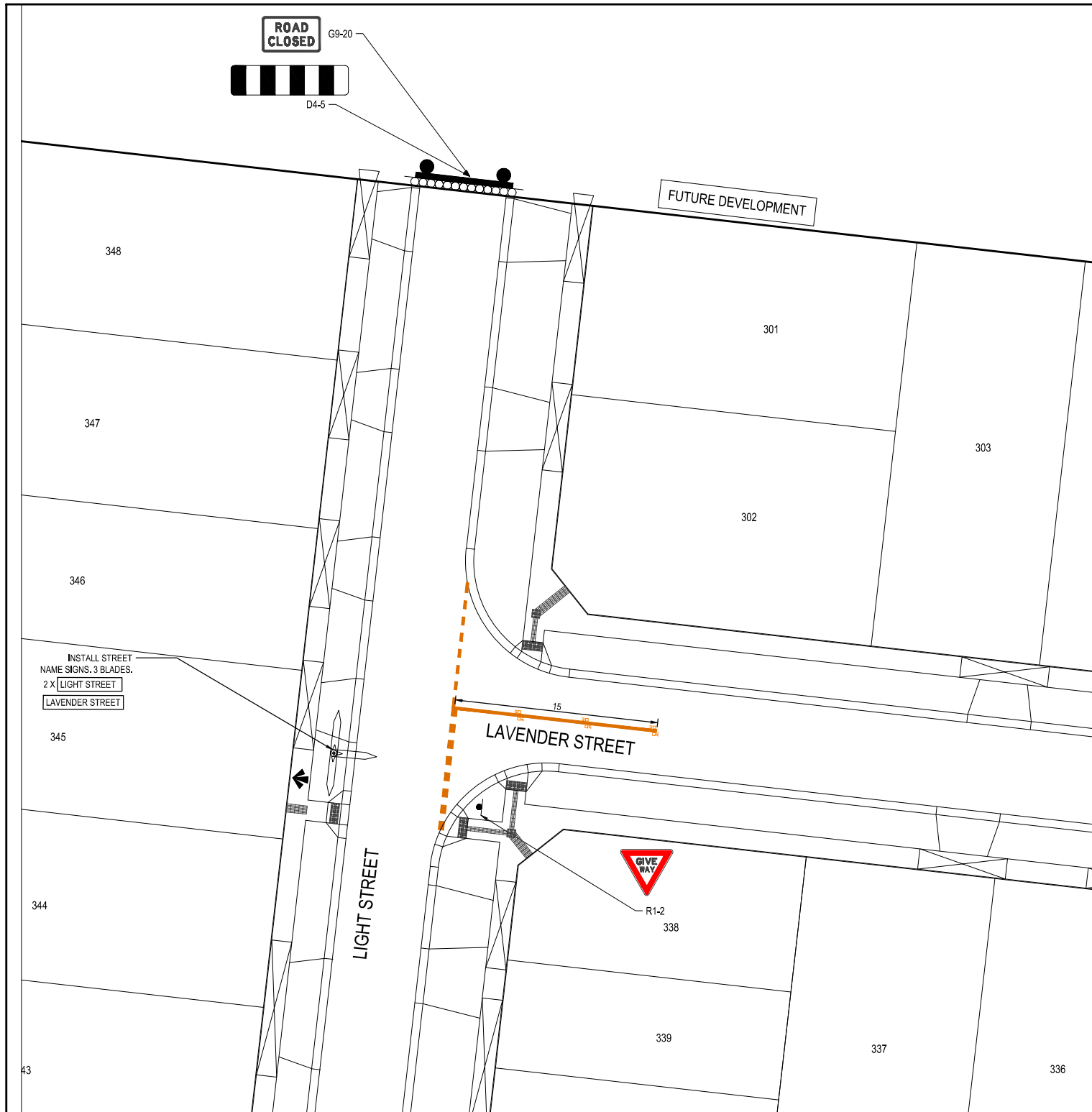
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CITY OF WHITTLESEA
ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE SUBDIVISION ACT 1988
PLAN OF SUBDIVISION No. **PS838327T**
DEVELOPMENT ENGINEER
14/12/2021
DATE APPROVED

CLIENT
JINDING
APPROVED 20.07.21
DESIGNED BW
SCALE AS SHOWN

PROJECT
THE PATCH - STAGE 3
TITLE
INTERSECTION DETAILS
MUNICIPALITY
CITY OF WHITTLESEA
PP No. 717154
DRAWING No. 3201-03-300
REVISION P2

ORIGINAL SIZE



P3	26.08.21	KCL	<i>[Signature]</i>	REVISED AS PER COUNCIL COMMENTS
P2	19.07.21	MHN	KCL	ISSUED FOR COUNCIL SUBMISSION
P1	29.10.20	AN	-	ISSUED FOR INFORMATION
REV	DATE	DRN	CKD	APP

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H 1:200
SCALE @ A1

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APPROVED
20.09.21
DESIGNED
BW
SCALE
AS SHOWN

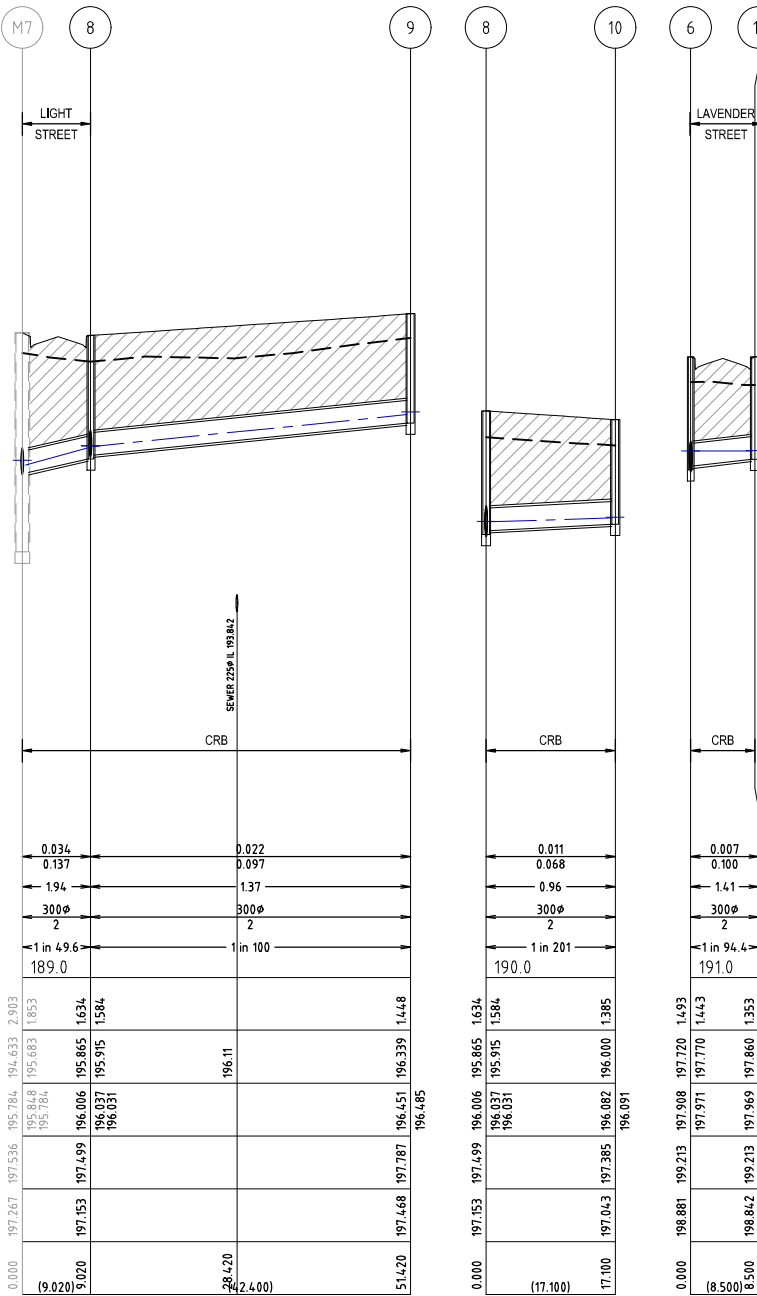
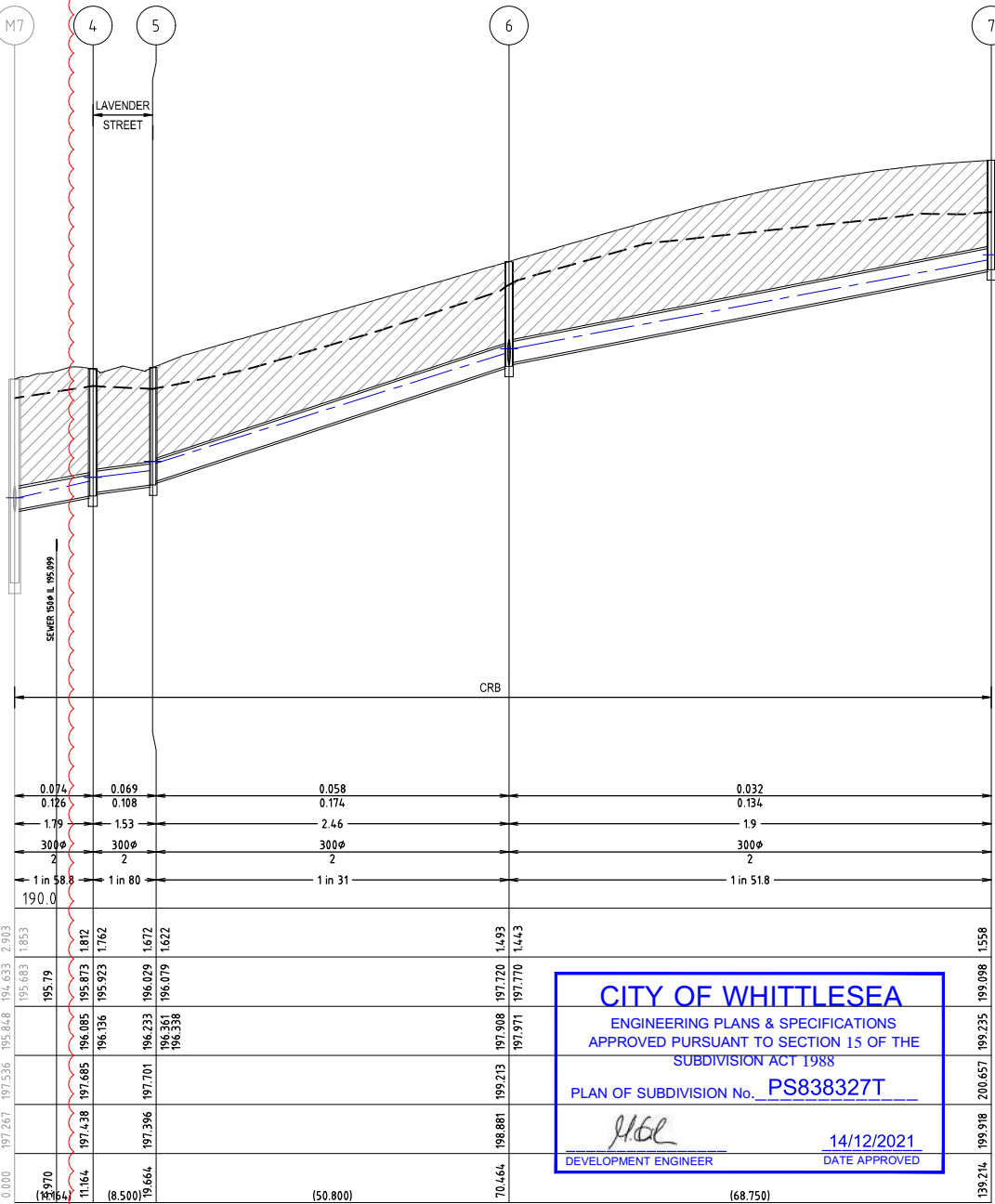
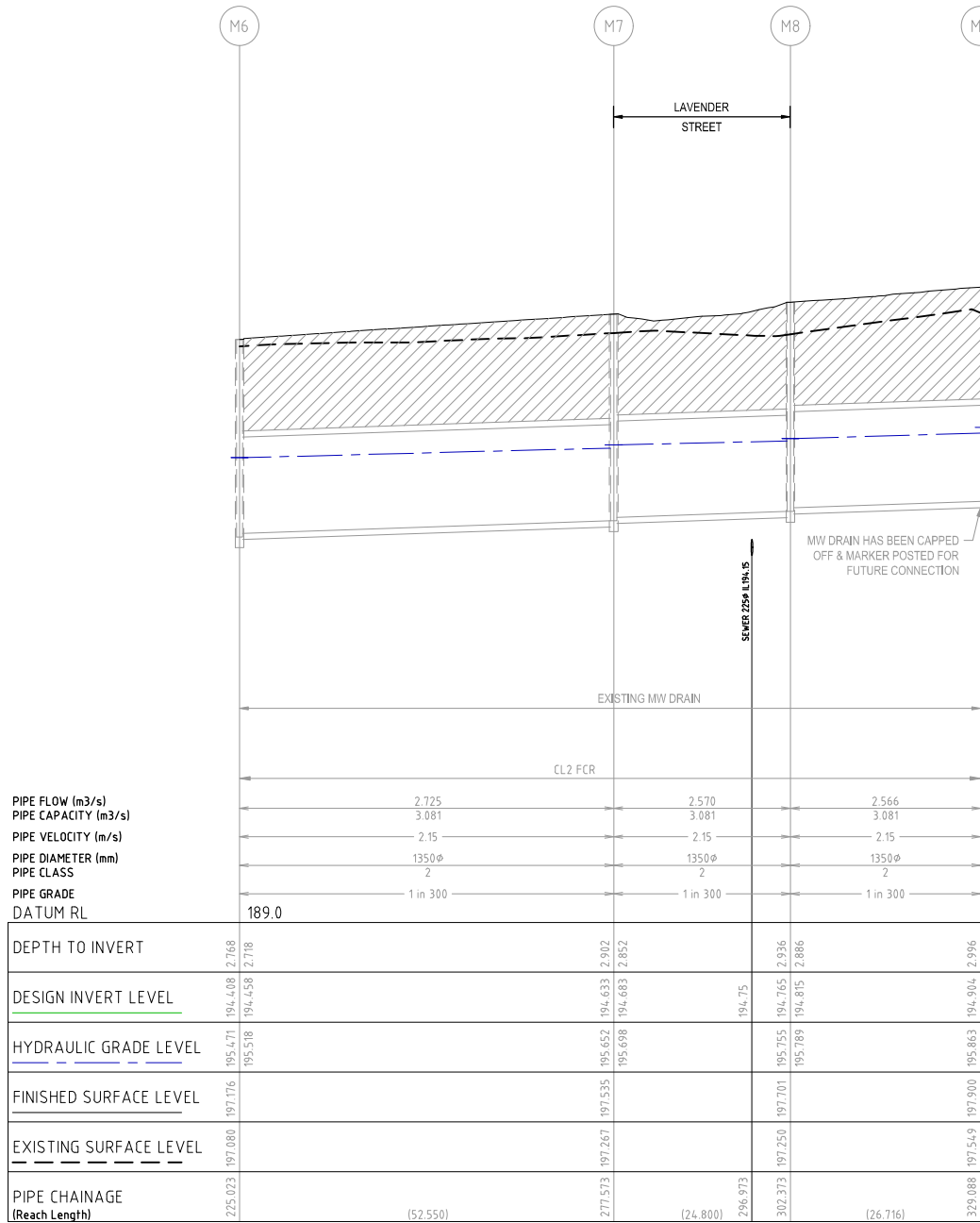
PROJECT
THE PATCH - STAGE 3
TITLE
SIGNAGE & LINE MARKING PLANS
MUNICIPALITY
CITY OF WHITTLESEA
PP No. 717154
DRAWING No. 3201-03-350
REVISION
P3

CITY OF WHITTLESEA
ENGINEERING PLANS & SPECIFICATIONS
APPROVED PURSUANT TO SECTION 15 OF THE
SUBDIVISION ACT 1988
PLAN OF SUBDIVISION No. PS838327T
[Signature]
DEVELOPMENT ENGINEER
14/12/2021
DATE APPROVED

ORIGINAL
SIZE
A1

NOTES:
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 RCP R.R.J. PIPES UNLESS NOTED OTHERWISE.

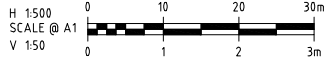
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	DENOTES 20mm CLASS 3 FCR BACKFILL.



CITY OF WHITTLESEA
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SUBDIVISION ACT 1988
PLAN OF SUBDIVISION No. PS838327T
14/12/2021
DEVELOPMENT ENGINEER DATE APPROVED

P3	26.08.21	KCL	Revised	Revised	REVISED AS PER COUNCIL COMMENTS
P2	19.07.21	MHN	KCL	BJM	ISSUED FOR COUNCIL SUBMISSION
P1	29.10.20	AN	-	CD	ISSUED FOR INFORMATION
REV	DATE	DRN	CKD	APP	AMENDMENT

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PROJECT
THE PATCH - STAGE 3
TITLE
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 1 OF 2)
CITY OF WHITTLESEA
MUNICIPALITY
PP No.
717154
DRAWING No.
3201-03-400
REVISION
P3

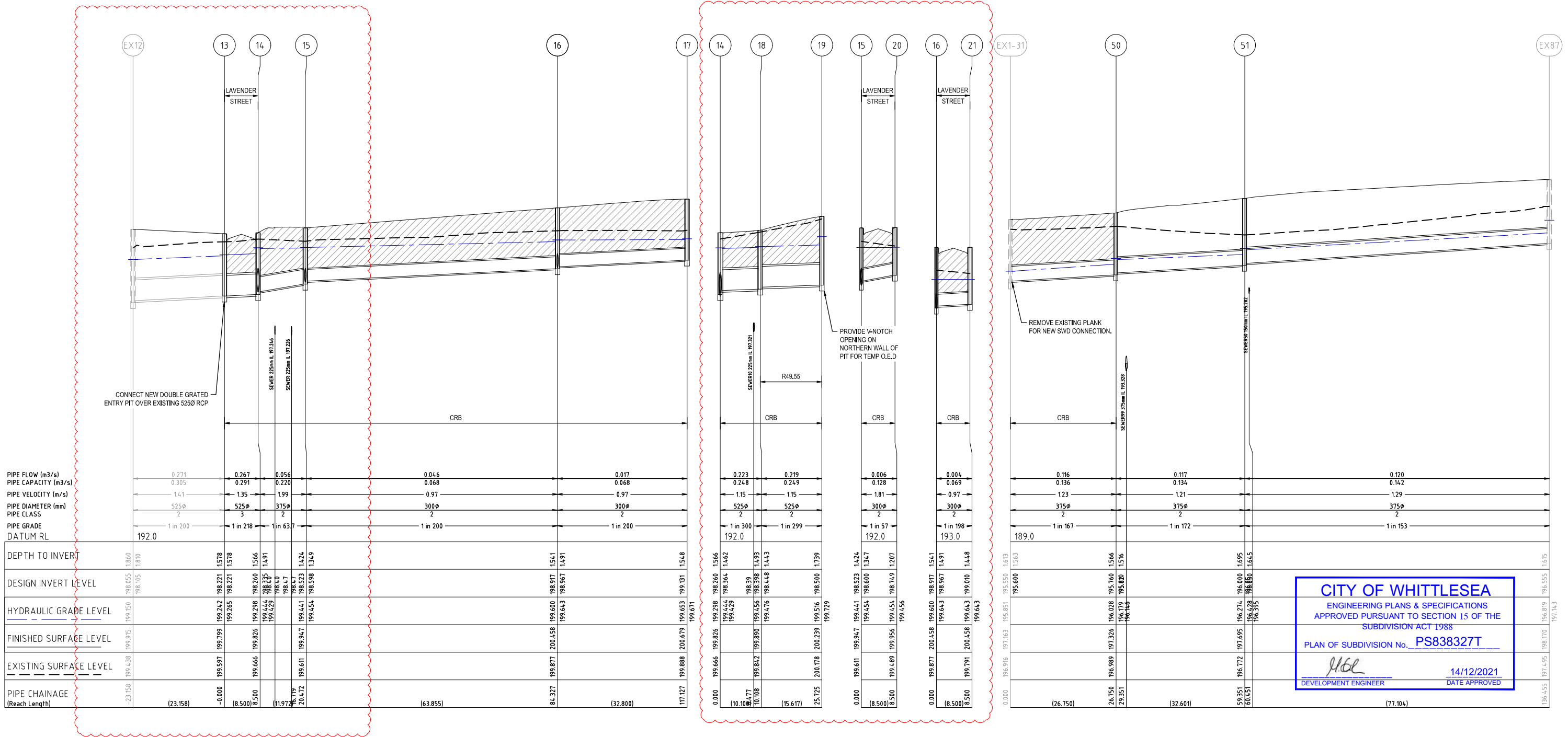
A1
ORIGINAL SIZE

NOTES:
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LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	DENOTES 20mm CLASS 3 FCR BACKFILL.

P3

P3



P3	26.08.21	KCL	<i>R. Burt</i>	REVISED AS PER COUNCIL COMMENTS
P2	19.07.21	MHN	KCL	ISSUED FOR COUNCIL SUBMISSION
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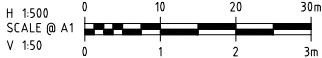
PROJECT
THE PATCH - STAGE 3
TITLE
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 2 OF 2)
CITY OF WHITTLESEA
MUNICIPALITY
PP No.
717154
DRAWING No.
3201-03-401
REVISION
P3
ORIGINAL SIZE
A1

P3

PIT SCHEDULE											
PIT NAME	TYPE	INTERNAL		INLET		OUTLET		PIT	DEPTH	STD DWG	REMARKS
		WIDTH	LENGTH	DIA	INV RL	DIA	INV RL	SETOUT RL			
EXM6	Ex END PIPE	-	-	1350	194.458	1350	194.408	197.176	2.768	-	CONNECT INTO EXISTING 1350Ø RCP
EXM7	HAUNCHED GRATED ENTRY PIT	600 (T)	900 (T)	1350	194.683	1350	194.633	197.535	2.902	-	EXISTING PIT
		1650 (B)	1200 (B)	300	195.683						
				300	195.683						
EXM8	HAUNCHED GRATED ENTRY PIT	600 (T)	900 (T)	1350	194.815	1350	194.765	197.701	2.936	-	EXISTING PIT
		1650 (B)	1200 (B)								
EXM9	END PIPE	-	-	1350	194.904	1350	194.904	197.900	2.996	-	EXISTING
4	GRATED ENTRY PIT	600	900	300	195.923	300	195.873	197.685	1.812	REFER TO EDCM 601 & 605	
5	GRATED ENTRY PIT	600	900	300	196.079	300	196.029	197.701	1.672	REFER TO EDCM 601 & 605	
6	GRATED ENTRY PIT	600	900	300	197.770	300	197.720	199.213	1.493	REFER TO EDCM 601 & 605	
				300	197.770						
7	JUNCTION PIT	600	900	-	-	300	199.098	200.657	1.558	REFER TO EDCM 605	
8	GRATED ENTRY PIT	600	900	300	195.915	300	195.865	197.499	1.634	REFER TO EDCM 601 & 605	
				300	195.915						
9	JUNCTION PIT	600	900	-	-	300	196.339	197.787	1.448	REFER TO EDCM 605	
10	JUNCTION PIT	600	900	-	-	300	196.000	197.385	1.385	REFER TO EDCM 605	
11	GRATED ENTRY PIT	600	900	-	-	300	197.860	199.213	1.353	REFER TO EDCM 601 & 605	
EX12	Ex. GRATED SIDE ENTRY PIT	Ex	Ex	Ex525	197.655	Ex525	Ex	Ex	Ex	-	
13	DOUBLE GRATED ENTRY PIT	600	900	525	198.221	525	198.221	199.799	1.578	REFER TO EDCM 602 & 605	CONSTRUCT NEW DOUBLE GRATED ENTRY PIT OVER EXISTING 525Ø RCP
14	HAUNCHED DOUBLE GRATED ENTRY PIT	T600	T900	375	198.335	525	198.260	199.826	1.566	REFER TO EDCM 602 & 605	PIT TO BE HAUNCHED WITHIN NATURE STRIP.
		B900	B900	525	198.364						
15	GRATED ENTRY PIT	600	900	300	198.598	375	198.523	199.947	1.424	REFER TO EDCM 601 & 605	
				300	198.600						
16	GRATED ENTRY PIT	600	900	300	198.967	300	198.917	200.458	1.541	REFER TO EDCM 601 & 605	
				300	198.967						
17	JUNCTION PIT	600	900	-	-	300	199.131	200.679	1.548	REFER TO EDCM 605	
18	HAUNCHED GRATED ENTRY PIT	T600	T900	525	198.448	525	198.398	199.890	1.493	REFER TO EDCM 601 & 605	PIT TO BE HAUNCHED WITHIN NATURE STRIP.
		B900	B900								
19	HAUNCHED GRATED ENTRY PIT	T600	T900	-	-	525	198.500	200.239	1.739	REFER TO EDCM 601 & 605	PROVIDE V-NOTCH OPENING ON NORTHERN WALL OF PIT FOR TEMP OPEN EARTH DRAIN. PIT TO BE HAUNCHED WITHIN NATURE STRIP.
		B900	B900								
20	GRATED ENTRY PIT	600	900	-	-	300	198.749	199.956	1.207	REFER TO EDCM 601 & 605	
21	GRATED ENTRY PIT	600	900	-	-	300	199.010	200.458	1.448	REFER TO EDCM 601 & 605	
EX1-31	EX. GRATED ENTRY PIT	600	900	375	195.600	EX375	195.550	197.163	1.613	-	
50	JUNCTION PIT	600	900	375	195.810	375	195.760	197.326	1.566	REFER TO EDCM FIG. 605	
51	JUNCTION PIT	600	900	375	196.050	375	196.000	197.695	1.695	REFER TO EDCM FIG. 605	
EX87	EX. JUNCTION PIT	600	900	EX300	196.630	375	196.555	198.170	1.615	-	

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PROJECT			
THE PATCH - STAGE 3			
TITLE PIT SCHEDULE & TYPICAL HAUNCHING DETAIL			
MUNICIPALITY	CITY OF WHITTLESEA	PP No.	717154
DRAWING No.	3201-03-402	REVISION	P3

CITY OF WHITTLESEA
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