MAPLE LANE ESTATE - STAGE 02

MAPLELANE PROJECTS PTY LTD

CITY OF BALLARAT

CONSTRUCTION NOTES (CITY OF BALLARAT)

SITE MANAGEMENT

Prior to commencement of works on site, the contractor must ensure that all matters relating to the Occupational Health and 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.

1. All native trees and shrubs to be retained unless road construction necessitates their removal or removal is directed by the engineer. A town planning permit is required for the removal of native trees and/or vegetation. The removal or retention of any existing trees must be in accordance with the approved landscape plan, or else approval will be required from the City of Ballarat landscape approvals officer.

2. Prior to commencement of works, the contractor must submit a Construction Management Plan (CMP) to the Superintendent for approval. The contractor must comply with the recommendations of the Environment Protection Authority publication No.275 "Construction techniques for sediment pollution control". Appropriate siltation control is to be maintained throughout the construction and maintenance period of the works.

GENERAL

3. All levels are in metres to Australian Height datum and taken from Level Plan by Beveridge Williams & Co. Pty Ltd.

4. All works to be carried out in accordance with AS2124-1992 General Conditions of Contract, City of Ballarat and Infrastructure Design Manual (IDM) current specification and standard drawings and to the satisfaction of the Superintendent and City of Ballarat works supervisor. The contractor shall ensure that they are conversant with all current revisions, amendments and updates that have been made to these standards.

5. The Superintendent, Council and all service authorities should be notified by the contractor, in writing, seven days prior to commencement of the works.

6. All existing services shall be confirmed to have been located prior to commencement of works. Where services have not been previously proven or located the Contractor shall make allowance or be satisfied that construction in accordance with the design can be achieved.

7. Where works are in the vicinity of existing services these services are to be located and the various authorities notified prior to the commencement of works.

8. 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 for the protection of the public.

9. Before commencement of works on trenches in excess of 1.5m deep, the civil contractors construction supervisor must give notice in writing of such proposals to Worksafe Victoria in accordance with Part 5.1, Division 4 of the Occupational Health & Safety regulations (2007) and undertake safety precautions in trenching operations in accordance with Workcover's Code of Practice (1988).

10. Lots to be graded & left clean to the satisfaction of the engineer. Finished levels to be compatible with lots adjoining this stage.

11. On completion the contractor is responsible for the removal of all rubbish and spoil from site. No surplus trees, vegetation or other material is to be burnt on site.

12. Reserves to be free draining and to be left in a condition satisfactory to the Superintendent and City of Ballarat works supervisor.

13. All TBM's and control points are to be maintained and protected at all times during construction.Should any marks be disturbed, the contractor will immediately notify the consultant to arrange re-instatement at the contractors expense.

EARTHWORKS

14. All areas shown on the drawings to be cut or filled are to be stripped of topsoil and all topsoil must be stockpiled on site.

15. Upon completion of the bulk earthworks topsoil is to be spread to a depth of 100mm over the nominated area and graded to finished levels shown on the drawings.

16. Batters to be 1 in 5 for fill and 1 in 5 for cut unless noted otherwise.

17. All nature strips and batters shall be covered with 100mm min. depth topsoil and seeded with an approved seed and fertilizer mixture.

18. Filling in all properties and road reserves is to be carried out using approved clay fill. Top soil and all vegetable matter to be stripped from site prior to filling. All filling to be carried out in 150mm layers and compacted to 95% of max dry density. All filling to comply with AS3798-2007,Section 8.2, Level 1 "Guidelines on Earthworks for Commercial and Residential Developments". A fill report must be submitted showing compliance from a NATA registered soil testing laboratory.

19. Importing Fill:- All imported fill must be tested by a NATA approved laboratory to ensure it is suitable for use on site, and any contaminates are within accepted levels. Under No circumstances should fill material enter or leave the site without the permission of the Superintendent or prior to it being appropriately tested.

20. All fill material shall be clean, uniform and free of organic matter and meet requirements of AS 3798-2007 "Guidelines on Earthworks for Commercial and Residential Developments".

21. Fill material should be placed in layers of uniform thickness, deposited systematically across the fill area. The contractor must excavate or "box" into the existing surface at the edge of fill to provide a suitable junction with the existing surface and to avoid feathered edges.

22. Prior to disposal of excess spoil the truck route and disposal location is to be approved by the Superintendent prior to commencing to dispose of spoil.

23. All vehicles transporting fill material to and from the site must have appropriate measures in place to ensure that material does not get onto roads and into stormwater systems and natural waterways.

24. Cut batters behind vehicular accesses must not exceed maximum grade of 1 in 5.

25. Before any loose layer of fill is compacted, the material and its moisture condition should be as uniform as is practicable throughout its depth.

26. If there is a delay in the placement of subsequent fill layers, previously accepted layers should conform with the specification before further fill is placed. If these layers have wetted up or dried out, they may inhibit compaction or cause heaving of subsequent layers. In these instances, drying or wetting of the fill by the contractor will be required to achieve optimum compaction.

27. All lots are to be brought to a finished surface level and top soiled to ensure that front boundaries are a minimum of 150mm above the top of kerb.

28. The maximum particle size of any rocks or other lumps within the fill layer, after compaction, should not exceed 100mm or two-thirds of the compacted layer thickness.

29. Fill is to be tested in increments of depth not greater than 500mm.

30. Fill batter faces are to be overfilled and cut back. the trimmed and compacted face should have a roughened surface to reduce runoff.

31. The surface of all fill layers must be shaped to provide drainage and to prevent ponding.

32. All fill to be compacted to that shown or 95% standard density or better. Moisture content must be in the range of -10% to +5% optimum.

33. Where fill placement is less than 200mm stripping of topsoil may be deleted,in which case the contractor shall remove all organic matter from existing surface prior to placing topsoil.

34. Filling to be completed prior to sewer and drainage construction, unless approved by the Superintendent and relevant Authority.

ROADWORKS

35. 100mm dia. agricultural pipe drains (Refer BCC SD-D2-1) to be placed behind kerb and channel or as directed by Superintendent and at minimum grade of 1 in 250.

36. 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 and ensure that the concreter marks the kerb and footpath exactly above the conduit.

37. All footpaths and shared pedestrian/bicycle paths are to be 125mm thick concrete as per IDM Standard Drawings SD205, 210, 215, 220 and 225.

38. Telcommunication contractor to be notified seven (7) days prior to concrete works being placed.

39. Electrical distribution pits within footpaths are to be a minimum of 300mm within the edge of the path. Concrete is to be placed around distribution pits to a minimum depth of 200mm.

40. Existing road works to be reconstructed as required to provide, without discontinuity, a connection in accordance with design levels and grades.

PAVEMENT

41. Pavement shall be constructed in accordance with construction plans, IDM and City of Ballarat Specifications and Standard Drawings.

42. Modification of the pavement requires approval by the City of Ballarat.

43. Prior to the commencement of the works, the contractor shall provide to Superintendent and Council the following information:-
    a. Source of quarry material.
    b. Optimum Moisture Content and Maximum Modified Dry Density of the F.C.R to be used (from NATA approved laboratory).
    c. If the source of the quarry material is changed during the course of the works, new test results shall be provided.

51. Subgrade, sub base and base compaction densities shall be in accordance with that shown in Table 1 and Clause 304.07 of Vicroads Standard Specification for Roadworks and Bridgeworks.

52. Compaction testing must be undertaken by NATA approved laboratory.

53. Compaction testing and proof rolling shall be undertaken on same day.

54. Superindendent and Council must be given minimum 24 hours notice of proof roll.

55. All pavement areas shall be proof rolled in the presence of Superintendent and Council Inspection Engineer, at the expense of contractor and in accordance with AS 3798 and Clause 173 and 204.12 of Vicroads Standard Specification for Roadworks and Bridgeworks.

56. If more than 20 percent of pavement area fails proof roll then total area must be reworked.

57. The next layer of pavement shall not be placed until previous layer has been approved. Following approval the contractor shall ensure that the next layer is placed within a reasonable period of time. If this is not possible it is the contractors responsibility to protect the pavement already approved. Failure to do so shall render contractor responsible for any pavement damage and rectification.

58. All geotechnical and compaction results are to be submitted to Superintendent and Council.

DRAINAGE

59. Drainage and pits to be set out from offsets shown rather than from centreline pipe chainages.

60. Stormwater pits shall be reinforced concrete and constructed in accordance with IDM and City of Ballarat Specifications and Standard Drawings. Minimum drop through pit shall be 20mm unless shown otherwise. For specific details refer Pit Schedule and IDM Standard Drawings SD 400 to SD 495. Minimum Concrete Strength F'c 25MPa at 28 Days.

61. Precast pits are permitted where manufacturer can demonstrate compliance with requirements of IDM and City of Ballarat Specifications and Standard Drawings.

62. Pit Covers and surrounds in trafficable areas shall be Class D Gatic or similair all other area shall be Class B precast reinforced concrete unless otherwise shown.

63. All pipes under pavement to be RCP(RRJ) Class 3. All 150mm diameter pipes to be UPVC SN4. Pipes other than under pavement or trafficable area may be approved ribbed stormwater pipe such as Blackmax or Stormpro®. Where ribbed stormwater pipe is used embedment shall be to manufacturers specification.

64. Pipe trenches beneath the road pavement and footpath to be backfilled with 20mm Class 3 F.C.R. At all other locations backfill with an approved material to a minimum 300mm above top of pipe. Backfill material shall be in maximum 150mm layers and in accordance with BCC Standard Drawing SD-D8-1.

65. Pipe trenches behind kerb and in easements or nature strips to be backfilled with Red Dredge in 150mm layers to 300mm above top of pipe and in accordance with BCC Standard Drawing SD-D8-1.

66. Easement Property Inlets at rear of property shall be 100mm PVC SN4 constructed in accordance with BCC Standard Drawing SD-D9 located 1.0m. from the low corner of the lot unless otherwise shown.

67. House Drain Property Inlets at front of property shall be 100mm PVC SN4 constructed in accordance with BCC Standard Drawing SD-D9 and located 5.0m from the low corner of the lot unless otherwise shown. Lots denoted H shall be connected to kerb. Lots denoted PI shall be connected to pipe to pit.

68. Property Inlets for allotments shall be at a sufficient depth to control drainage at minimum of 1 in 200 fall from all points within the building area.

69. All proposed drainage stubs to be blanked off at end of pipe with timber planks to the satisfaction of the Superintendent and Council supervising engineer.

70. All drainage backfill under pavement shall be tested and results provided to the Superintendent.

SERVICES

71. All service trenches under footpath, vehicular crossings and kerb & channel shall be backfilled with 20mm Class 2 crushed rock. All service conduit trenches under road pavement shall be backfilled with compacted 2% cement treated crushed rock.

72. Gas and water conduits and mains must be laid in trenches excavated and backfilled by the contractor. Conduits are to be 50mm diameter Class 12 PVC service conduits laid at a minimum depth of 600mm below finished surface level. Contractor shall supply all sand embedment. The contractor shall give the gas contractor 7 days notice prior to commencing work.

73. Telecommunications conduits and cable ducts must be laid in trenches excavated and backfilled by the contractor. Conduits are to be type and size as shown on approved telecommunications plans and laid at a minimum depth of 600mm below finished surface level. Contractor shall supply all sand embedment. The contractor shall give the Telecommunications contractor 7 days notice prior to commencing work.

74. Electrical conduits and cables must be laid in trenches excavated and backfilled by an VEDN approved contractor. Conduits are to be type and size as shown on approved electrical plans and laid at a minimum depth of 600mm below finished surface level. Contractor shall supply all sand embedment. The contractor shall give the Electrical contractor 7 days notice prior to commencing work.

75. All conduit ends immediately upon placement of the conduit must be plugged.

76. Conduits under footpaths to be 450mm deep extending a minimum of 250mm either side of the path. The footpath above the conduits is to be marked with two contraction joints over the conduits 400mm apart.

77. The reinstatement and compaction of public authority service trenches shall be the contractor's responsibility.

78. The contractor must note the existence of telecom, gas, power, water and any other services in the area prior to tendering. Any disturbance to existing services, footpaths etc. shall be rectified at the contractor's expense to the satisfaction of the superintendent and relevant service authority as appropriate.

ATTENTION TO CONTRACTOR

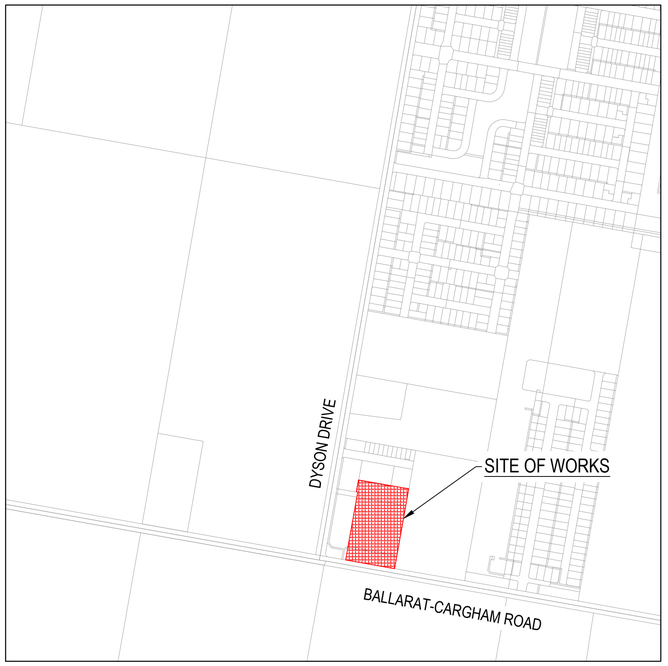
In accordance with Clause 15 of AS2124 Australian Standard Conditions of Contract, the contractor must ensure the safety of the contractor's employees and all other people who are on or adjacent to the site. The contractor must comply with the Victorian Occupational Health and Safety Act

79. The contractor must ensure that all people employed on the site wear approved safety apparel. This includes safety helmets, vests, safety boots, eye & ear protection, where appropriate.

80. The contractor shall reinstate any affected footpath, vehicle crossing and nature strip to the satisfaction of the City of Ballarat

81. Beveridge Williams & Co Pty Ltd is responsible for design of the works. Any proposed alterations to the design shall be directed to the consultant for approval prior to making any alterations to the design.

82. The contractor is directly responsible for the setout. Should actual site conditions conflict in any way with that documented, the contractor must contact the office of Beveridge Williams & Co. Pty. Ltd. for clarification before proceeding.



SITE PLAN

NOT TO SCALE

DRAWING INDEX

DRAWING No.	TITLE	REV
1801844-02-001	COVER SHEET	B
1801844-02-002	TYPICAL ROAD CROSS SECTIONS & GENERAL DETAILS	A
1801844-02-010	LAYOUT PLAN	B
1801844-02-100	ROAD LONGITUDINAL SECTIONS	A
1801844-02-200	ROAD CROSS SECTIONS HATHAWAY CLOSE SHEET 1 OF 3	A
1801844-02-201	ROAD CROSS SECTIONS HATHAWAY / SERVICE ROAD SHEET 2 OF 3	A
1801844-02-202	ROAD CROSS SECTIONS SERVICE ROAD / DRIVEWAY SHEET 3 OF 3	A
1801844-02-300	COURTBOWL LAYOUT & INTERSECTION DETAILS (SHEET 1 OF 2) HATHAWAY CLOSE AND SERVICE ROAD	A
1801844-02-301	INTERSECTION DETAILS (SHEET 2 OF 2)	A
1801844-02-350	SINGAGE AND LINEMARKING	A
1801844-02-400	DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 2)	A
1801844-02-401	DRAINAGE LONGITUDINAL SECTIONS & PIT SCHEDULE (SHEET 2 OF 2)	A

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.
P1	DRAWING INDEX UPDATED	26.11.20	P.H.	J.S.
P0	ISSUED FOR INFORMATION	05.11.20	P.H.	J.S.

REV	DESCRIPTION	DATE	DRN.	APP.
B	UPDATED LAYOUT SHEET	22.07.21	L.R.	R.C.
A	FOR APPROVAL	03.06.21	P.H.	R.C.

Maple Lane Estate

Designed	P.HUNJAN
Date	17.10.2020
Drawn	P.HUNJAN
Approved	J.SPARK
Date	17.10.2020
PS Number	PS837926A

Beveridge Williams
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Project Details	MAPLE LANE ESTATE STAGE 02 CITY OF BALLARAT
Drawing Title	COVER SHEET

Sheet 01 of 12

Scale: NOT TO SCALE

Project Ref	Stage No	Drawing No	Rev
1801844	02	001	B

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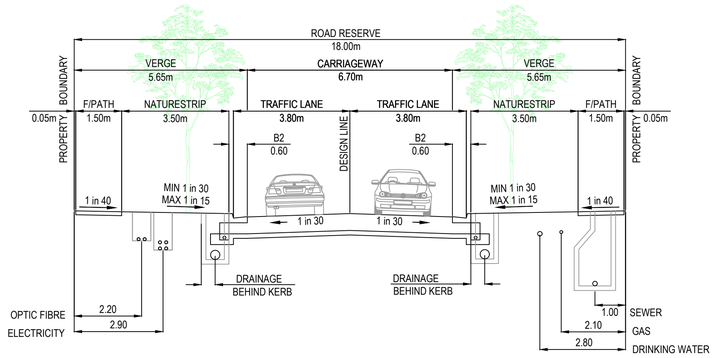
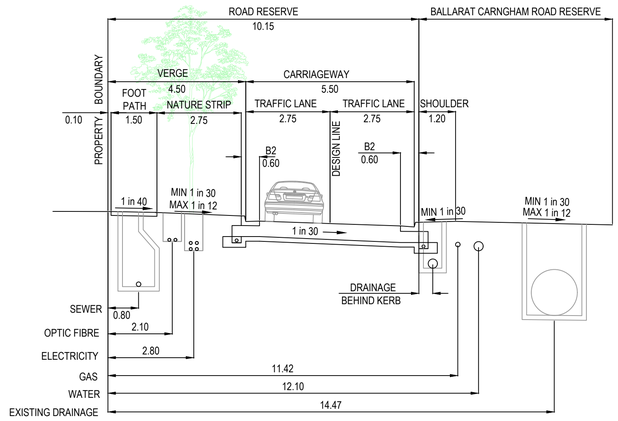
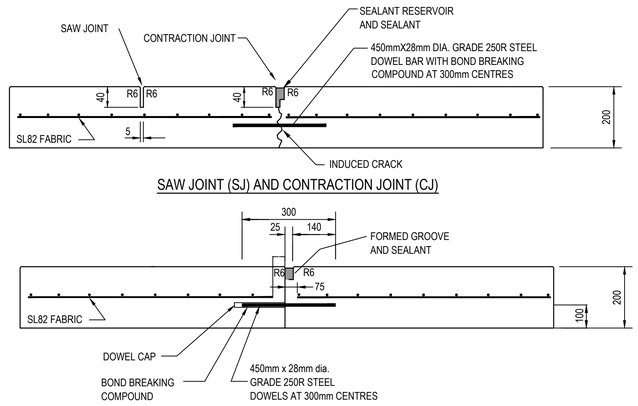


TYPICAL18.0m ROAD RESERVE
HATHAWAY CLOSE
N.T.S.



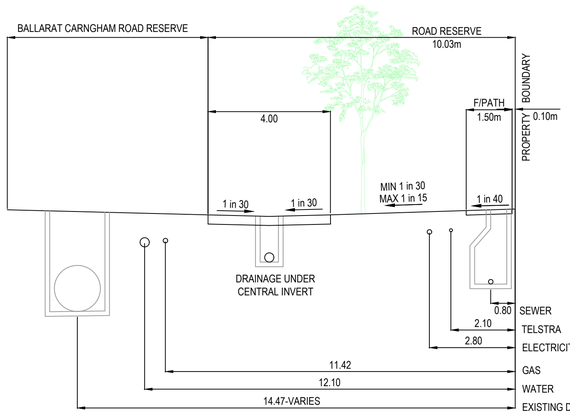
10.15m SERVICE ROAD RESERVE
(SERVICES BOTH SIDES)
N.T.S



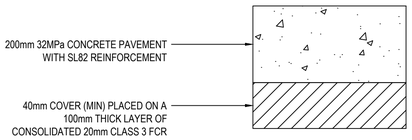
SAW JOINT (SJ) AND CONTRACTION JOINT (CJ)

DOWLED BUTT JOINT (DJ)

TRANSVERSE CONSTRUCTION JOINT DETAIL



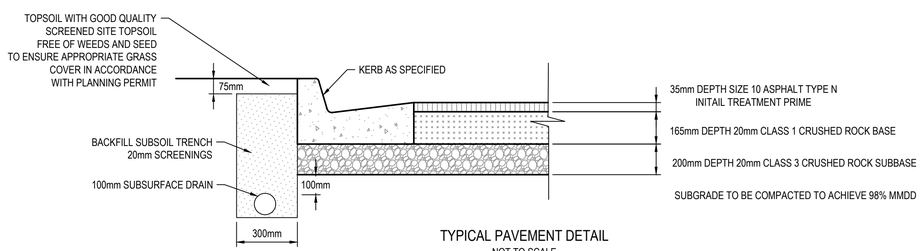
10.33m ROAD RESERVE
DRIVEWAY
SCALE N.T.S.



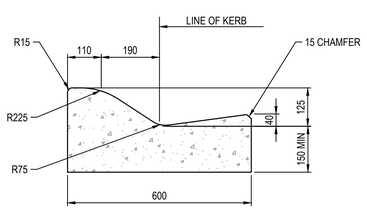
CONCRETE DRIVEWAY
PAVEMENT DETAIL
NOT TO SCALE

CONCRETE JOINTING NOTES

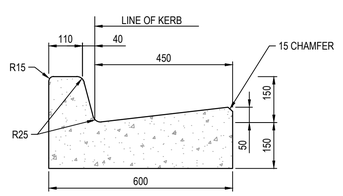
1. SAW JOINTS ARE TO BE PLACED AT A MAXIMUM 5m SPACING AT INTERSECTIONS AND CONSTRUCTED 18-24 HOURS AFTER POURING.
2. TRANSVERSE/CONTRACTION JOINTS ARE TO BE PLACED AT A MAXIMUM SPACING OF 15m.
3. ALL JOINTS SHALL BE LOCATED AND SPACED IN ACCORDANCE WITH "CEMENT AND CONCRETE ASSOCIATION OF AUSTRALIA - CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS 1997"



TYPICAL PAVEMENT DETAIL
NOT TO SCALE



SM2 KERB DETAIL
SCALE 1:10



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

ISSUED FOR
CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.
P3	DRIVEWAY TYPICAL SECTION UPDATED	03.06.21	P.H.	R.C.
P2	PAVEMENT PROFILE AND KERB UPDATED	23.03.21	P.H.	M.J.
P1	SERVICE ROAD CROSS SECTION UPDATED	26.11.20	P.H.	J.S.
P0	ISSUED FOR INFORMATION	05.11.20	P.H.	J.S.

REV	DESCRIPTION	DATE	DRN.	APP.
A	FOR APPROVAL	03.06.21	P.H.	R.C.

Maple Lane Estate

Designed	P.HUNJAN
Date	17.01.2020
Drawn	P.HUNJAN
Approved	J.SPARK
Date	17.01.2020
PS Number	PS837926A

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Project Details	MAPLE LANE ESTATE STAGE 02 CITY OF BALLARAT
Drawing Title	TYPICAL ROAD CROSS SECTIONS & GENERAL DETAILS

Sheet 02 of 12
Scale: AS SHOWN

Project Ref	Stage No	Drawing No	Rev
1801844	02	002	A

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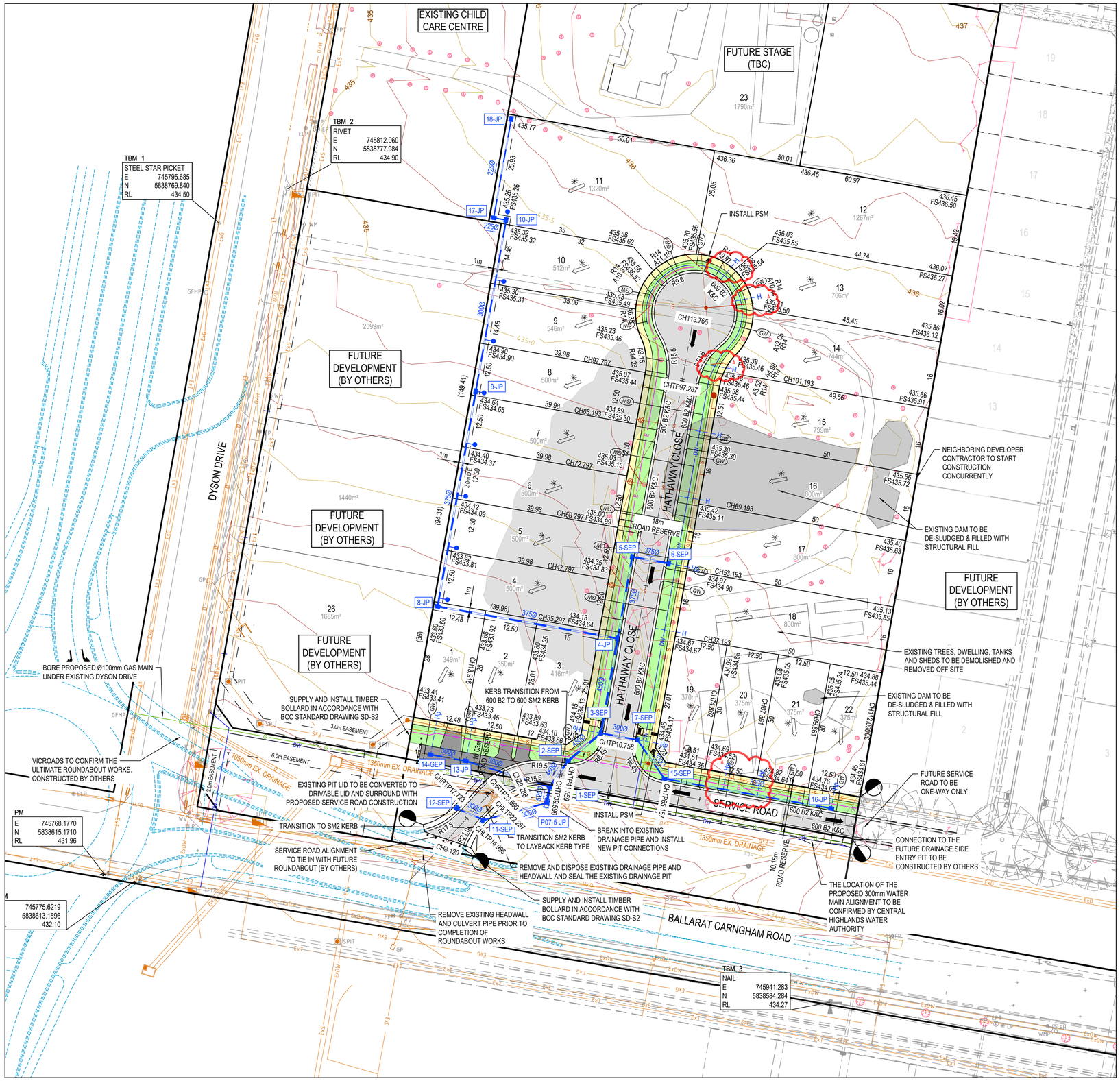


FILL NOTES

1. FILL MATERIAL SHOULD BE PLACED IN LAYERS OF UNIFORM THICKNESS, DEPOSITED SYSTEMATICALLY ACROSS THE FILL AREA. THE CONTRACTOR MUST EXCAVATE OR "BOX" INTO THE EXISTING SURFACE AT THE EDGE OF FILLS TO PROVIDE A SUITABLE JUNCTION WITH THE EXISTING SURFACE AND TO AVOID FEATHERED EDGES.
2. THE METHOD OF EXCAVATION, TRANSPORT AND DEPOSITING OF FILL MATERIAL SHOULD ENSURE THAT FILL IS PLACED IN A MIXTURE AS UNIFORM AS IS PRACTICABLE. EACH FILL LAYER THICKNESS SHALL BE LESS THAN 300mm, LOOSE THEN COMPACTED TO THE SPECIFIED RELATIVE COMPACTION AND TESTED BY THE SPECIFIED TEST METHODS.
3. BEFORE ANY LOOSE LAYER OF FILL IS COMPACTED, THE MATERIAL AND ITS MOISTURE CONDITION SHOULD BE AS UNIFORM AS IS PRACTICABLE THROUGHOUT ITS DEPTH.
4. THE MAXIMUM PARTICLE SIZE OF ANY ROCKS OR OTHER LUMPS WITHIN THE FILL LAYER, AFTER COMPACTION, SHOULD NOT EXCEED TWO-THIRDS OF THE COMPACTED LAYER THICKNESS.
5. IF THERE IS A DELAY IN THE PLACEMENT OF SUBSEQUENT FILL LAYERS, PREVIOUSLY ACCEPTED LAYERS SHOULD CONFORM WITH THE SPECIFICATION BEFORE FURTHER FILL IS PLACED> IF THESE LAYERS HAVE WETTED UP OR DRIED OUT, THEY MAY INHIBIT COMPACTION OR CAUSE HEAVING OF SUBSEQUENT LAYERS. IN THESE INSTANCES, DRYING OR WETTING OF THE FILL BY THE CONTRACTOR WILL BE REQUIRED TO ACHIEVE OPTIMUM COMPACTION.
6. FILL IS TO BE TESTED IN INCREMENTS OF DEPTH NOT GREATER THAN 500mm.
7. FILL BATTER FACES ARE TO BE OVERFILLED AND CUT BACK> THE TRIMMED AND COMPACTED FACE SHOULD HAVE A ROUGHENED SURFACE TO REDUCE RUNOFF.
8. THE SURFACE OF ALL FILL LAYERS MUST BE SHAPED TO PROVIDE DRAINAGE AND TO PREVENT PONDING.
9. ALL FILL TO BE COMPACTED TO 95% STANDARD DENSITY OR BETTER. MOISTURE CONTENT MUST BE IN THE RANGE OF -10% TO +5% OPTIMUM.
10. THE CONTRACTOR IS RESPONSIBLE FOR TESTING OF THE FILL AT LEVEL 1 STANDARD. AT THE COMPLETION OF THE WORKS THE CONTRACTOR SHALL SUPPLY THE SUPERVISING ENGINEER WITH A CERTIFICATE FROM A NATA APPROVED GEOTECHNICAL ENGINEER CERTIFYING THAT FILL MEETS ABOVE REQUIREMENTS.
11. FILLING TO BE COMPLETED PRIOR TO SEWER AND DRAINAGE CONSTRUCTION.

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- RECYCLED WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- RIDGE LINE
- RETAINING WALL
- ZERO LOT LINES
- PAVEMENT TREATMENT
- STRUCTURAL FILL > 300mm 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
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY
- TREE PROTECTION ZONE (TPZ)

SERVICE OFFSET TABLE

Location	Gas		Water		Electricity		Telecommunication		Sewer	
	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)
HATHAWAY CLOSE	E	2.10	E	2.80	W	2.90	W	2.20	E	1.00
SERVICE ROAD	S	11.42	S	12.10	N	2.80	N	2.10	N-Ex	1.00
COURT BOWL HEAD		2.10		2.55		3.15		2.95		-

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

ROAD LAYOUT TABLE

Road Name	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
HATHAWAY CLOSE	18.00	6.70	7.60	7.9	600 B2	600 B2	3.50	3.50
SERVICE ROAD	10.15	4.60	5.50	5.80	600 B3	600 B2	2.75	-

NOTES

1. ALL SERVICES SHOWN ARE PRELIMINARY AND SUBJECT TO AUTHORITY ADVICE & DETAILED DESIGN.
2. EXISTING SERVICES SHOWN ARE INDICATIVE ONLY AND TO BE VERIFIED PRIOR TO DETAILED DESIGN AND CONSTRUCTION.
3. ALL EXISTING DRAINAGE PITS AND SEWER MH WITHIN NEW WORKS TO BE ADJUSTED TO NEATLY MATCH NEW FINISH SURFACE.
4. ALL EXISTING OPEN DRAINS WITHIN NEW WORKS TO BE CLEANED, DE-SLUDGED AND BACKFILLED TO LEVEL 1 SUPERVISION.
5. THE PLAN OF SUBDIVISION IS SUBJECT TO APPROVAL FROM THE RELEVANT AUTHORITIES. LOT BOUNDARIES, EASEMENTS, RESERVES AND RESTRICTIONS MAY BE AMENDED OR ADDED TO THIS PLAN.
6. CONTRACTOR TO ENSURE REMOVAL OF SEPTIC TANK PRIOR TO CONSTRUCTION COMMENCEMENT.

WARNING

BEWARE OF UNDERGROUND SERVICES

The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

DIAL 1100 BEFORE YOU DIG

www.1100.com.au

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.
P4	PLANS UPDATED AS PER COUNCIL COMMENTS	19.05.21	P.H.	M.J.
P3	PROPOSED EASEMENT SHOWN	09.02.21	P.H.	R.C.
P2	PROPOSED GAS UNDER DYSON DRIVE NOTE ADDED	15.12.20	P.H.	R.C.
P1	SERVICE ROAD AND LOT LEVELS UPDATED	26.11.20	P.H.	J.S.
P0	ISSUED FOR INFORMATION	05.11.20	P.H.	J.S.

REV	DESCRIPTION	DATE	DRN.	APP.
B	HOUSE DRAINAGE CONNECTIONS AMENDED	22.07.21	L.R.	R.C.
A	FOR APPROVAL	03.06.21	P.H.	R.C.
P5	LAYOUT UPDATED AS PER COUNCIL COMMENTS	03.06.21	P.H.	R.C.

Maple Lane Estate

0 5 10 20 30 40 50

Designed P.HUNJAN Date 17.10.2020
Drawn P.HUNJAN
Approved J.SPARK Date 17.10.2020
PS Number PS837926A

Beveridge Williams
Suite 3/180 Eleanor Dr
Lucas VIC 3350
ph: 03 5327 2000
www.beveridgewilliams.com.au

Project Details: MAPLE LANE ESTATE
STAGE 02
CITY OF BALLARAT

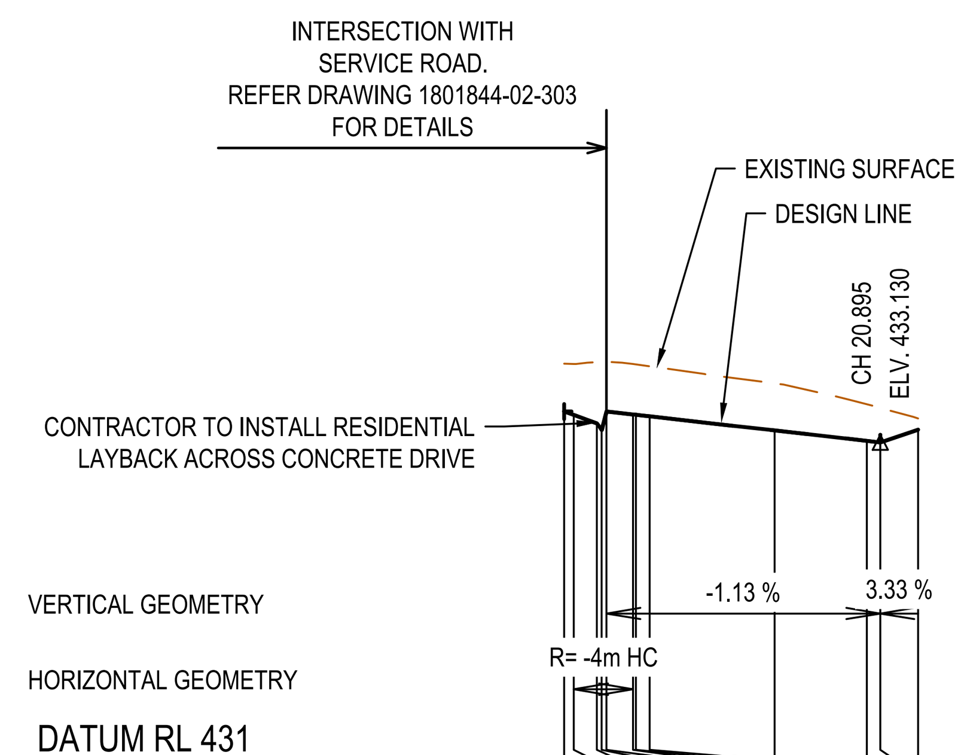
Drawing Title: LAYOUT PLAN

Sheet 03 of 12
Scale 1:500 @ A1

Project Ref	Stage No	Drawing No	Rev
1801844	02	010	B

\\bafile01\p\Data\18\1801844 - 255 Dyson Drive, Alfredton_Engi\Stage 2\Drawings\1801844-02-010-LAY.dwg

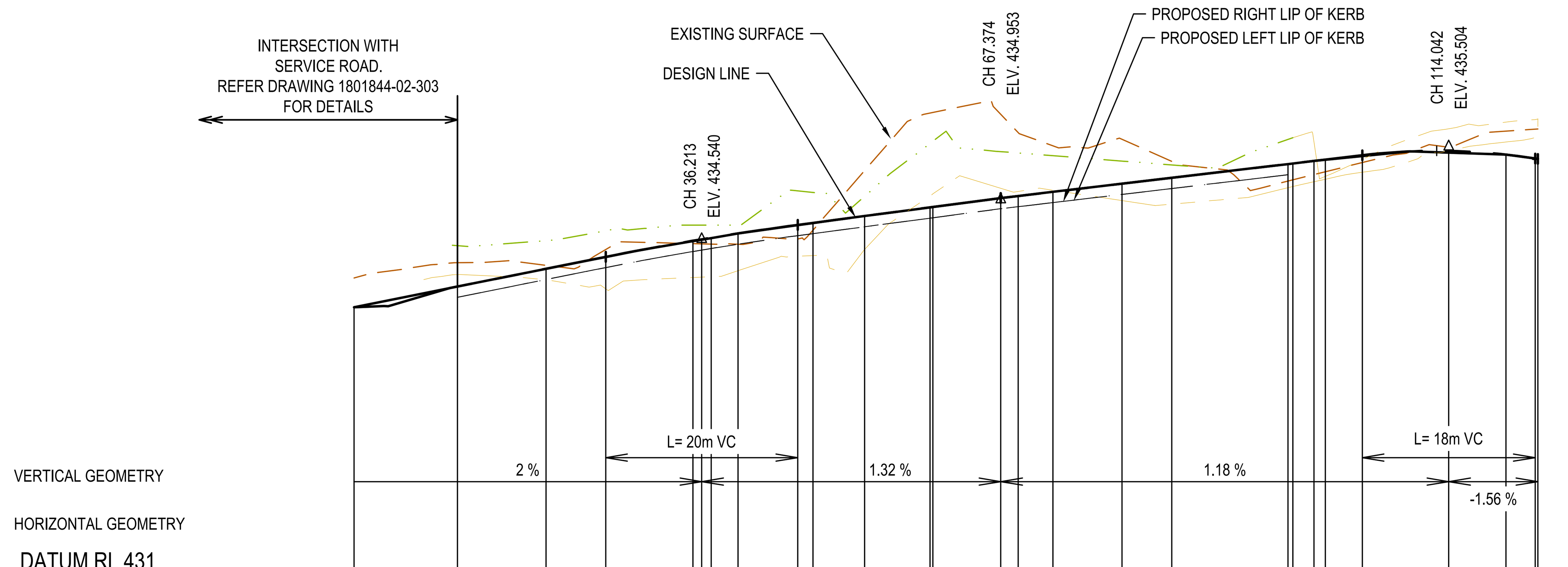
LEGEND
- EXISTING SURFACE
- DESIGN LINE
- FUTURE DESIGN LINE
- EXISTING SURFACE AT RIGHT BOUNDARY
- RIGHT LIP OF KERB
- EXISTING SURFACE AT LEFT BOUNDARY
- LEFT LIP OF KERB



DATUM RL 431

DESIGN CENTRELINE	433.334	433.311	433.256	433.213	433.335	433.315	433.313	433.302	433.209	433.140	433.130	433.213
EXISTING SURFACE	433.649	433.648	433.661	433.662	433.662	433.649	433.646	433.633	433.520	433.382	433.358	433.287
CHAINAGE	0.000	0.651	2.173	2.484	2.795	4.564	4.739	5.667	13.916	20.000	20.895	23.394

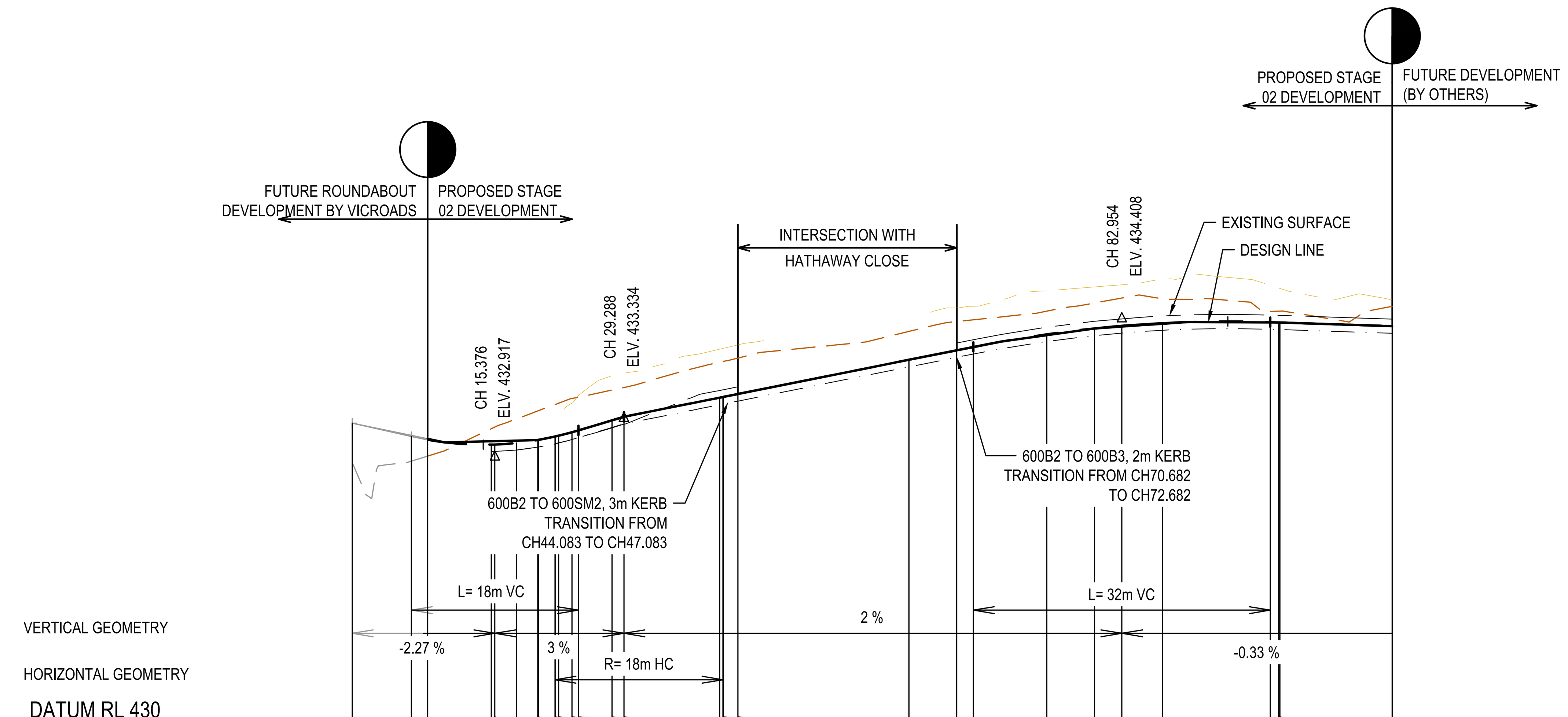
DRIVEWAY LONGITUDINAL SECTION



DATUM RL 431

DESIGN CENTRELINE	433.816	434.031	434.216	434.340	434.508	434.523	434.539	434.584	434.672	434.693	434.765	434.855	434.859	434.953	434.974	435.017	435.102	435.163	435.306	435.312	435.338	435.353	435.398	435.443	435.404	435.364	435.360
RIGHT LIP OF KERB		433.919	434.104	434.228	434.396	434.411	434.428	434.472	434.561	434.582	434.653	434.743	434.747	434.841	434.862	434.905	434.990	435.052									
EXISTING SURFACE AT RIGHT BOUNDARY		434.456	434.509	434.612	434.670	434.670	434.670	434.670	435.027	435.010	434.972	435.522	435.544	435.436	435.421	435.394	435.338	435.298	435.563	435.580							
LEFT LIP OF KERB		433.919	434.104	434.228	434.396	434.411	434.428	434.472	434.561	434.582	434.653	434.743	434.747	434.841	434.862	434.905	434.990	435.052									
EXISTING SURFACE AT LEFT BOUNDARY		434.156	434.101	434.007	434.125	434.129	434.133	434.195	434.345	434.354	434.418	434.976	434.996	435.053	435.020	435.034	434.927	434.889	435.060	435.072	435.122	435.149	435.222	435.445	435.535	435.579	435.585
EXISTING SURFACE	434.120	434.279	434.252	434.416	434.477	434.475	434.472	434.472	434.527	434.618	435.240	435.838	435.844	435.822	435.633	435.496	435.564	435.335	435.129	435.142	435.197	435.226	435.322	435.486	435.650	435.671	435.673
CHAINAGE	0.000	10.758	20.000	26.213	35.297	36.213	37.193	40.000	46.213	47.797	53.193	60.000	60.297	67.374	69.193	72.797	80.000	85.193	97.287	97.797	100.000	101.193	105.042	114.042	120.000	123.042	123.316
		TP CH																	TP CH								

HATHAWAY CLOSE LONGITUDINAL SECTION



DATUM RL 430

DESIGN CENTRELINE	433.266	433.121	433.086	433.034	433.036	433.052	433.084	433.085	433.121	433.121	433.130	433.167	433.187	433.296	433.334	433.541	433.548	433.548	433.549	433.580	433.949	434.052	434.088	434.223	434.287	434.314	434.344	434.354	434.351	434.351	434.311
RIGHT LIP OF KERB						432.975	433.006	433.007	433.042	433.042	433.051	433.090	433.110	433.219	433.258	433.464	433.471	433.471	433.472	433.503	433.872	433.975	434.011	434.146	434.210	434.236	434.267	434.278	434.275	434.274	
LEFT LIP OF KERB				432.958	432.960	432.976	433.007	433.008	433.044	433.044	433.053	433.089	433.109	433.216	433.254	433.617	433.625	433.625	433.625	433.656		434.128	434.164	434.300	434.363	434.389	434.421	434.431	434.428	434.428	
EXISTING SURFACE AT LEFT BOUNDARY														433.777	433.805	434.069	434.078	434.078	434.079	434.108		434.508	434.526	434.694	434.734	434.756	434.815	434.751	434.723	434.718	434.595
EXISTING SURFACE	432.825	432.856	432.910	433.206	433.224	433.312	433.397	433.400	433.467	433.467	433.481	433.532	433.546	433.622	433.649	433.922	433.930	433.930	433.931	433.968	434.254	434.361	434.380	434.473	434.560	434.613	434.606	434.471	434.473	434.474	434.525
CHAINAGE	0.000	6.376	8.120	14.996	15.376	17.723	20.000	20.068	21.865	21.869	22.257	23.690	24.376	28.000	29.288	39.596	39.967	39.968	40.000	41.559	60.000	65.157	66.954	74.862	80.000	82.954	87.361	98.954	99.861	100.000	112.090
				LTP CH		RTP CH						LTP CH RTP CH				TP CH				TP CH		TP CH									

SERVICE ROAD LONGITUDINAL SECTION

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.
P2	DRIVEWAY LONG SECTION UPDATED	03.06.21	P.H.	R.C.
P1	SERVICE ROAD AND DRIVEWAY UPDATED	26.11.20	P.H.	J.S.
P0	ISSUED FOR INFORMATION	05.11.20	P.H.	J.S.

REV	DESCRIPTION	DATE	DRN.	APP.
A	FOR APPROVAL	03.06.21	P.H.	R.C.

Maple Lane Estate

HORIZONTAL: 0, 5, 10, 20, 30, 40, 50
VERTICAL: 0, 0.5, 1, 2, 3, 4, 5

Designed: P.HUNJAN, Date: 17.01.2020
Drawn: P.HUNJAN
Approved: J.SPARK, Date: 17.01.2020
PS Number: PS837926A

Beveridge Williams
Suite 3/180 Eleanor Dr
Lucas VIC 3350
ph: 03 5327 2000
www.beveridgewilliams.com.au

Project Details: MAPLE LANE ESTATE
STAGE 02
CITY OF BALLARAT

Drawing Title: ROAD LONGITUDINAL SECTIONS

Scale: 1:500 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1801844	02	100	A

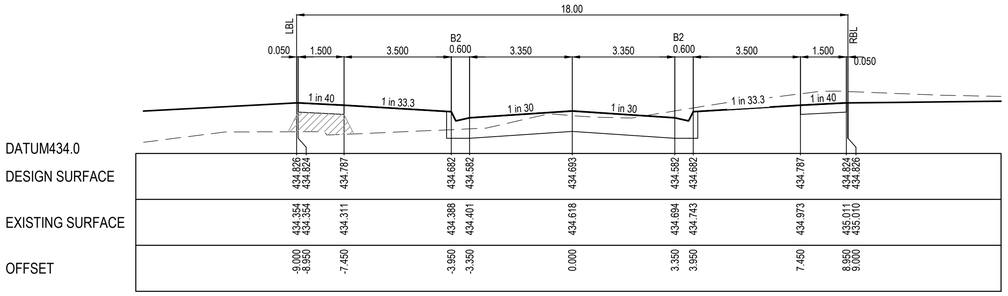
\\balfile01p\Data\18\1801844 - 255 Dyson Drive, Alfredton_Eng\Stage 2\Drawings\1801844-02-100-RLS.dwg

LEGEND

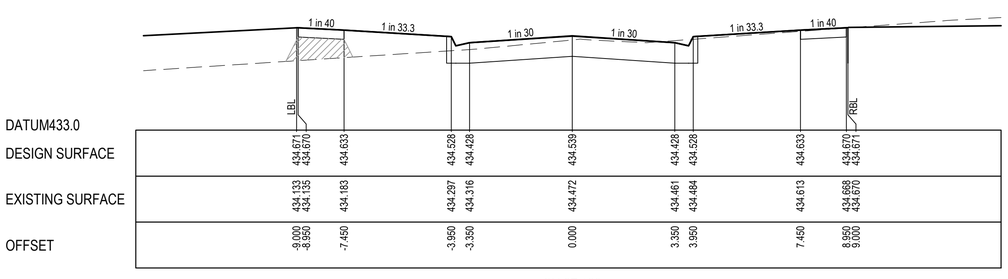
EXISTING SURFACE

DESIGN SURFACE

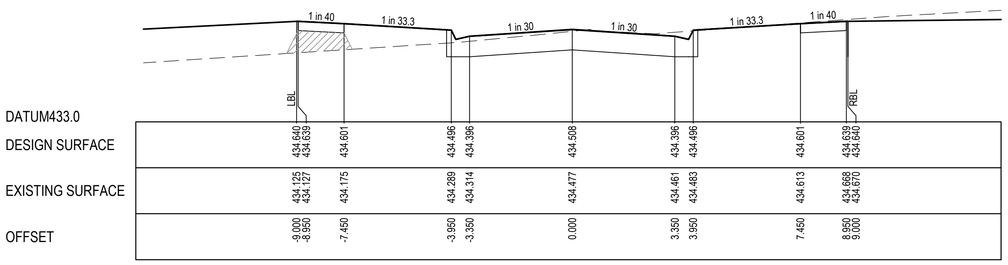
STRUCTURAL FILL



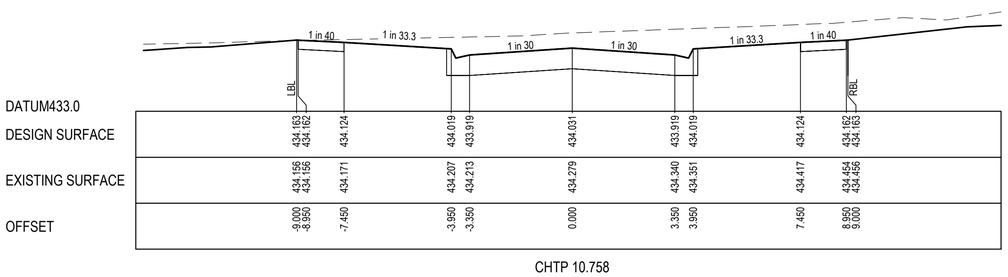
CH 47.797



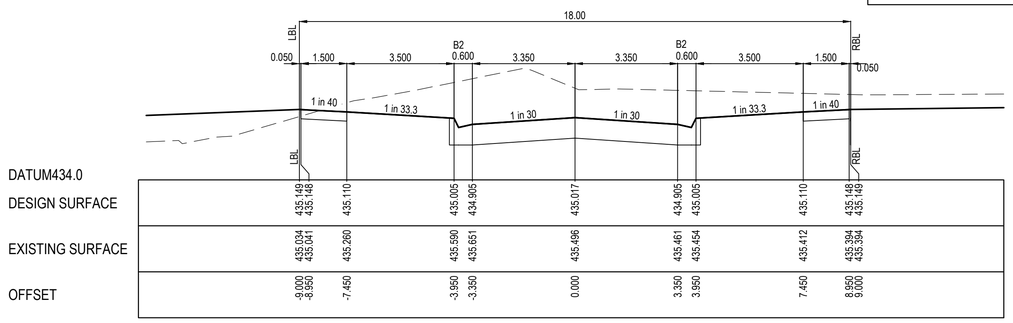
CH 37.193



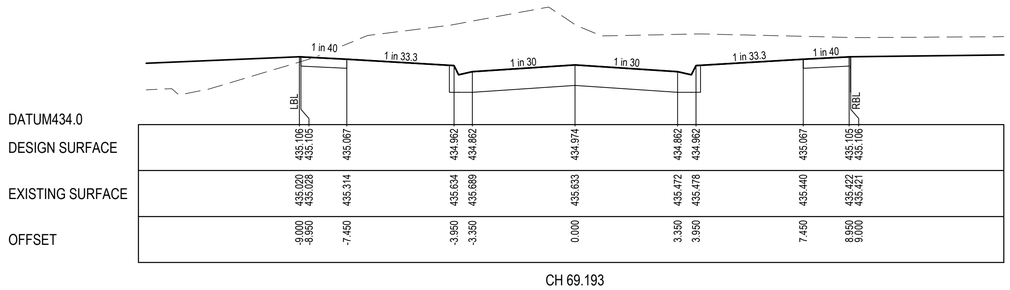
CH 35.297



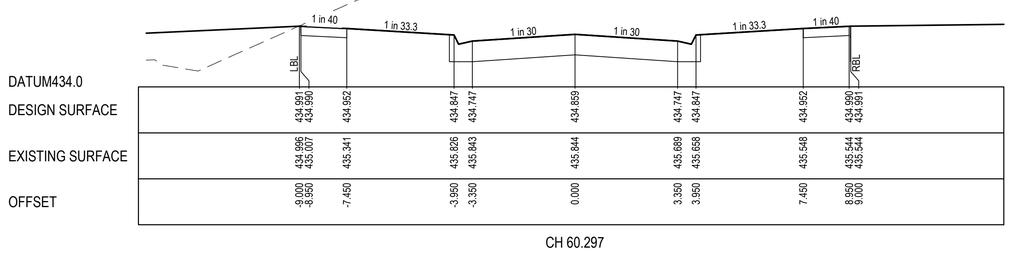
CHTP 10.758



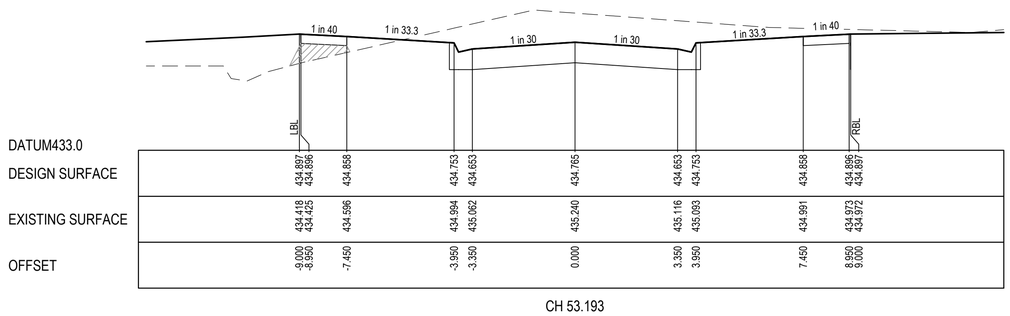
CH 72.797



CH 69.193



CH 60.297



CH 53.193

HATHAWAY CLOSE CROSS SECTIONS

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.
P0	ISSUED FOR INFORMATION	05.11.20	P.H.	J.S.
A	FOR APPROVAL	03.06.21	P.H.	R.C.

Maple Lane Estate

HORIZONTAL 0 1 2 4 6 8 10
VERTICAL 0 0.5 1 2 3 4 5

Designed	P.HUNJAN
Date	17.10.2020
Drawn	P.HUNJAN
Approved	J.SPARK
Date	17.10.2020
PS Number	PS837926A

Beveridge Williams
Suite 3/180 Eleanor Dr
Lucas VIC 3350
ph: 03 5327 2000
www.beveridgewilliams.com.au

Project Details: MAPLE LANE ESTATE
STAGE 02
CITY OF BALLARAT

Drawing Title: ROAD CROSS SECTIONS
HATHAWAY CLOSE
SHEET 1 OF 3

Sheet 05 of 12
Scale 1:100 H 1:50 V @ A1

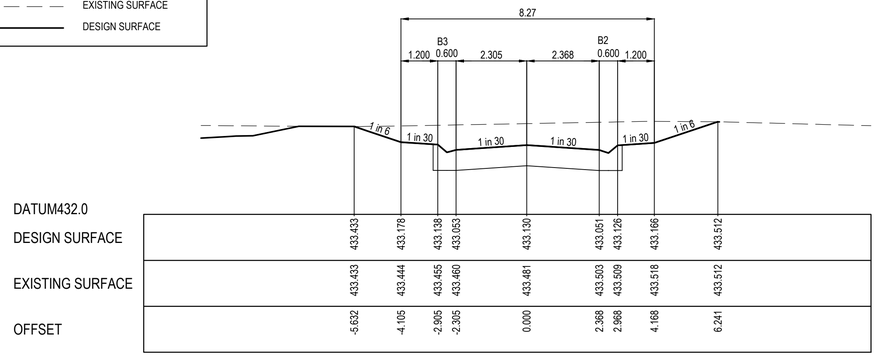
Project Ref	Stage No	Drawing No	Rev
1801844	02	200	A

\\balfile01p\Data\18\1801844 - 255 Dyson Drive, Alfredton_Eng\Stage 2\Drawings\1801844-02-200-RXS.dwg

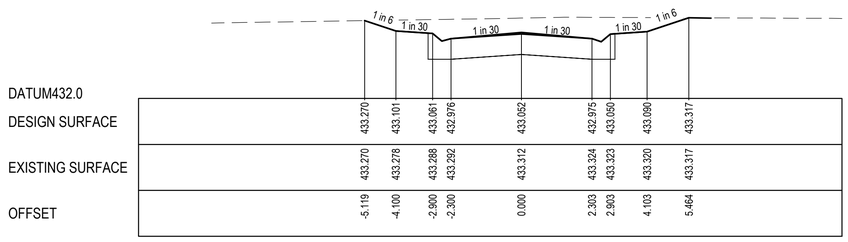
LEGEND

EXISTING SURFACE

DESIGN SURFACE

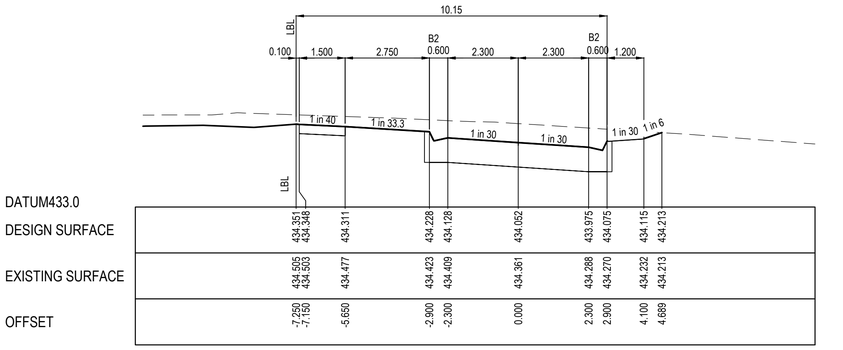


CHRTP 22.257

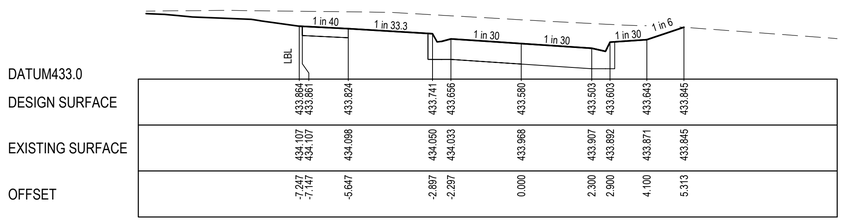


CHLTP 17.723

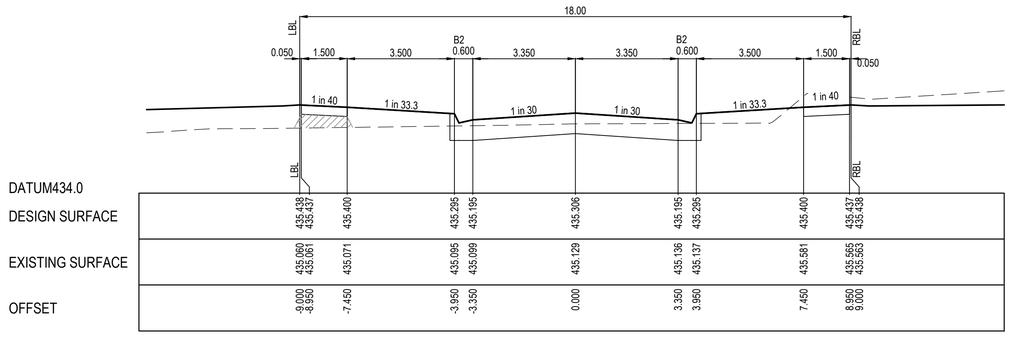
SERVICE ROAD CROSS SECTIONS



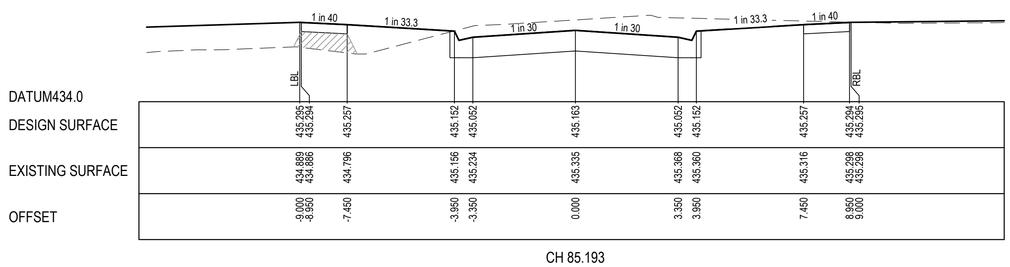
CH 65.157



CHTP 41.559

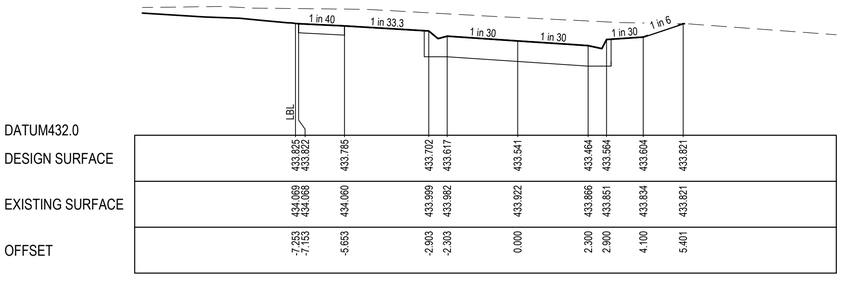


CHTP 97.287

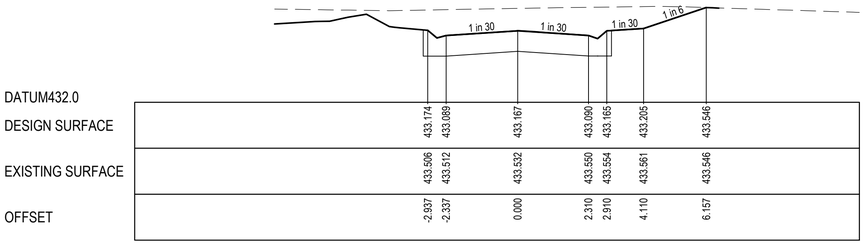


CH 85.193

HATHAWAY CLOSE CROSS SECTIONS



CHTP 39.596



CHRTP 23.690

SERVICE ROAD CROSS SECTIONS

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.
P2	SERVICE ROAD B3 KERB CHANGED TO B2	03.06.21	P.H.	R.C.
P1	SERVICE ROAD CROSS SECTIONS UPDATED	26.11.20	P.H.	J.S.
P0	ISSUED FOR INFORMATION	05.11.20	P.H.	J.S.

REV	DESCRIPTION	DATE	DRN.	APP.
A	FOR APPROVAL	03.06.21	P.H.	R.C.

Maple Lane Estate

HORIZONTAL 0 1 2 4 6 8 10
VERTICAL 0 0.5 1 2 3 4 5

Designed	P.HUNJAN
Date	17.01.2020
Drawn	P.HUNJAN
Approved	J.SPARK
Date	17.01.2020
PS Number	PS837926A

Beveridge Williams
Suite 3/180 Eleanor Dr
Lucas VIC 3350
ph: 03 5327 2000
www.beveridgewilliams.com.au

Project Details	MAPLE LANE ESTATE STAGE 02 CITY OF BALLARAT
Drawing Title	ROAD CROSS SECTIONS HATHAWAY / SERVICE ROAD SHEET 2 OF 3

Sheet 06 of 12

Scale 1:100 H 1:50 V @ A1

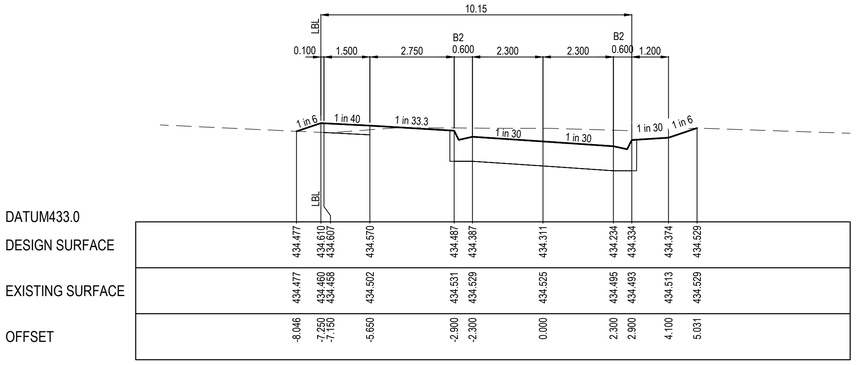
Project Ref	Stage No	Drawing No	Rev
1801844	02	201	A

\\balfile01p\Data\18\1801844 - 255 Dyson Drive, Alfredton_Eng\Stage 2\Drawings\1801844-02-200-RXS.dwg

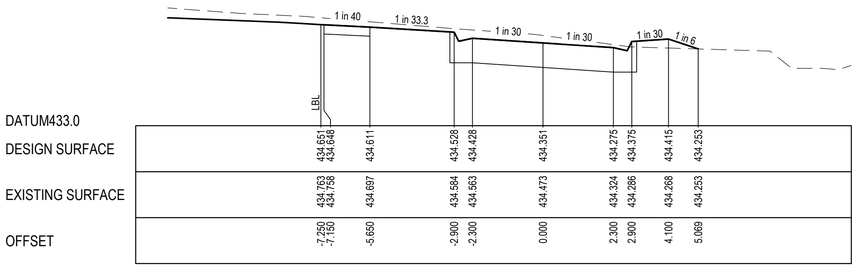
LEGEND

EXISTING SURFACE

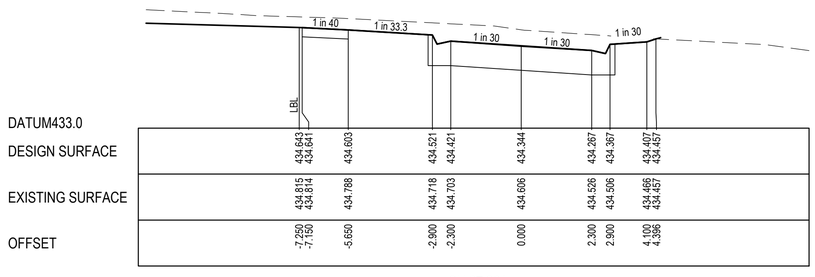
DESIGN SURFACE



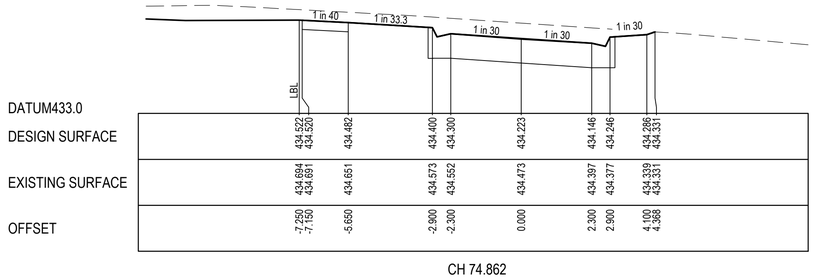
CH 112.090



CH 99.861

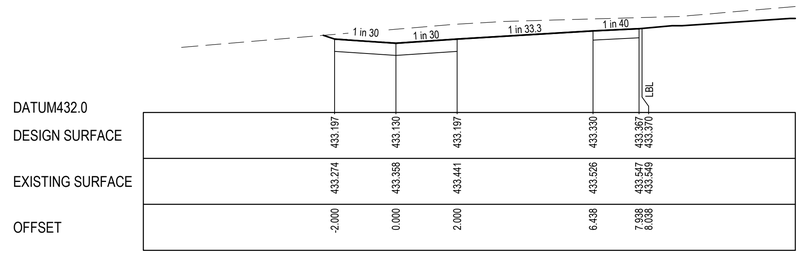


CH 87.361

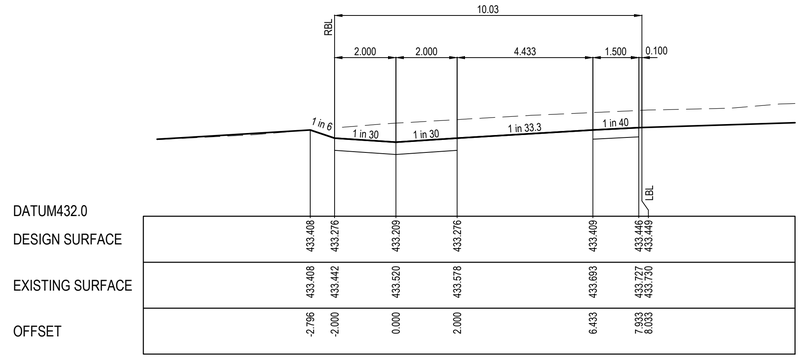


CH 74.862

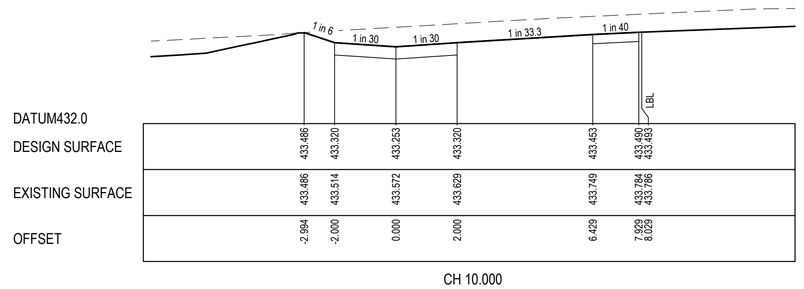
SERVICE ROAD CROSS SECTIONS



CH 20.895



CH 13.916



CH 10.000

DRIVEWAY CROSS SECTIONS

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.
P2	SERVICE ROAD B3 KERB CHANGED TO B3	03.06.21	P.H.	R.C.
P1	SERVICE ROAD AND DRIVEWAY CROSS SECTIONS UPDATED	26.11.20	P.H.	J.S.
P0	ISSUED FOR INFORMATION	05.11.20	P.H.	J.S.

REV	DESCRIPTION	DATE	DRN.	APP.
A	FOR APPROVAL	03.06.21	P.H.	R.C.

Maple Lane Estate

HORIZONTAL 0 1 2 4 6 8 10

VERTICAL 0 0.5 1 2 3 4 5

Designed	P.HUNJAN
Date	17.10.2020
Drawn	P.HUNJAN
Approved	J.SPARK
Date	17.10.2020
PS Number	PS837926A

Beveridge Williams
Suite 3/180 Eleanor Dr
Lucas VIC 3350
ph: 03 5327 2000
www.beveridgewilliams.com.au

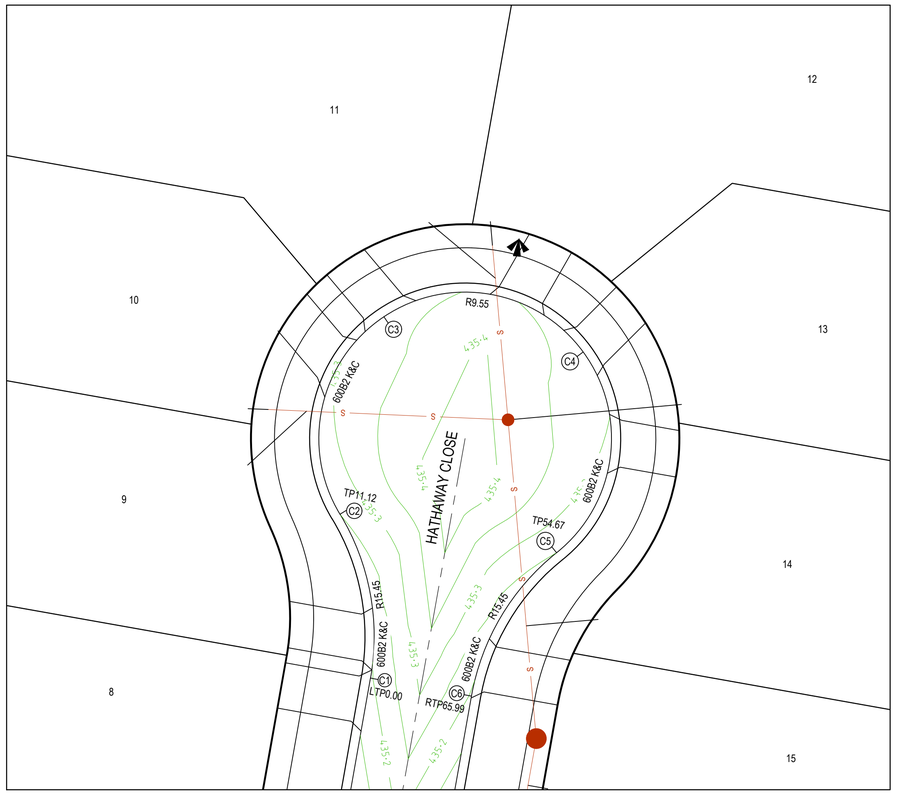
Project Details	MAPLE LANE ESTATE STAGE 02 CITY OF BALLARAT
Drawing Title	ROAD CROSS SECTIONS SERVICE ROAD / DRIVEWAY SHEET 3 OF 3

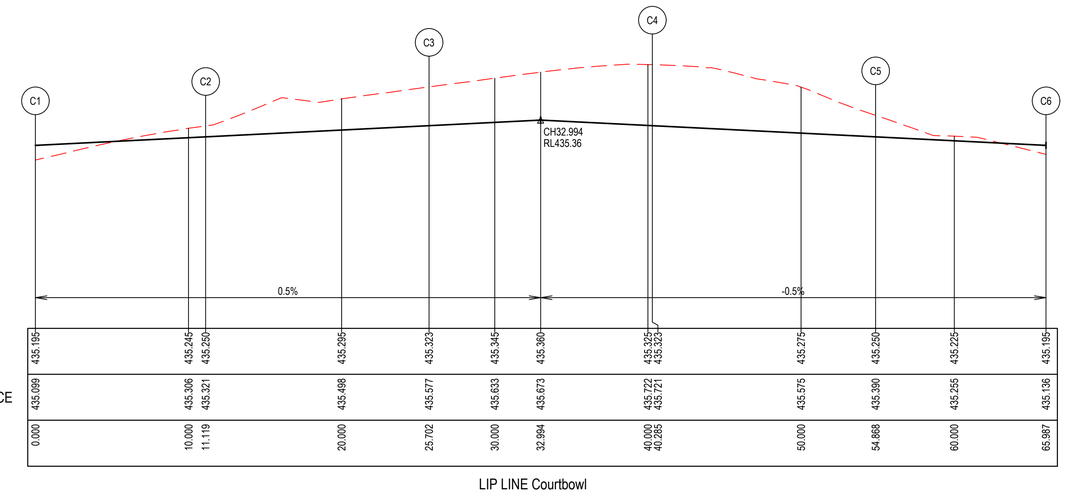
Sheet 07 of 12

Scale 1:100 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1801844	02	202	A

\\balfile01p\Data\18\1801844 - 255 Dyson Drive, Alfredton_Eng\Stage 2\Drawings\1801844-02-200-RXS.dwg





VERTICAL GEOMETRY

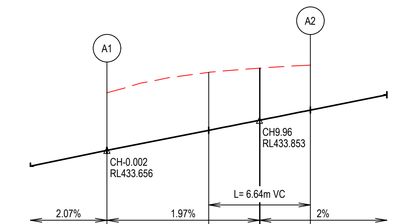
DATUM RL434											
DESIGN LEVEL	435.195	435.245	435.250	435.295	435.323	435.345	435.360	435.325 435.325	435.275	435.250	435.225	435.195
EXISTING SURFACE	435.099	435.306	435.321	435.498	435.577	435.633	435.673	435.722 435.721	435.575	435.390	435.265	435.136
CHAINAGE	0.000	10.000	11.119	20.000	25.702	30.000	32.994	40.000 40.285	50.000	54.868	60.000	65.987

LIP LINE Courtbowl

Alignment C

Point no	Easting	Northing	RL
C1	745902.741	5838732.733	435.195
C2	745900.748	5838743.430	435.250
C3	745903.623	5838756.320	435.323
C4	745916.627	5838754.012	435.323
C5	745914.890	5838740.920	435.250
C6	745909.338	5838731.562	435.195

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
C1 - 2	41.236	15.450	11.119	0.990	0.740	2.765	2.676	2.780	435.222
C2 - C3	87.491	9.550	14.583	2.651	1.963	3.558	3.046	3.646	435.287
C3 - C4	87.491	9.550	14.583	2.651	1.963	3.558	3.046	3.646	435.360
C4 - C5	87.491	9.550	14.583	2.651	1.963	3.558	3.046	3.646	435.287
C5 - C6	41.236	15.450	11.119	0.990	0.740	2.765	2.676	2.780	435.222



VERTICAL GEOMETRY

DATUM RL433				
DESIGN LEVEL	433.656	433.787	433.853 433.854	433.919
EXISTING SURFACE	434.033	434.166	434.193 434.193	434.213
CHAINAGE	0.000	6.640	9.960 10.000	13.281

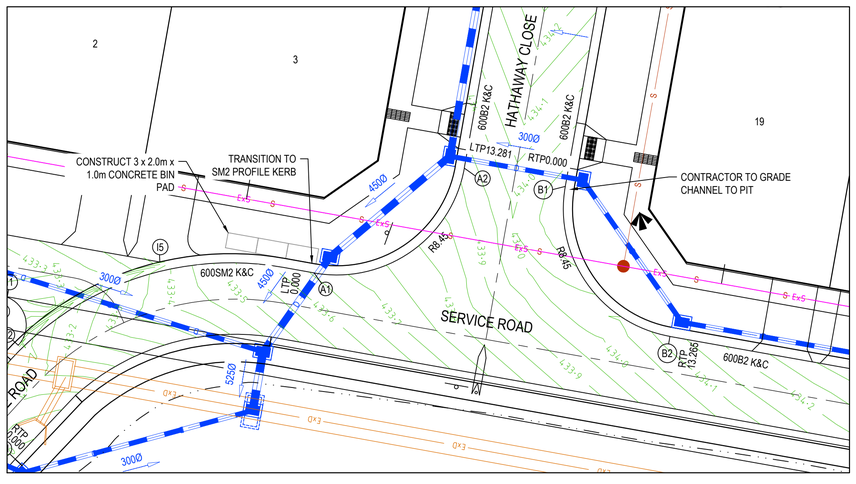
LIP LINE return A

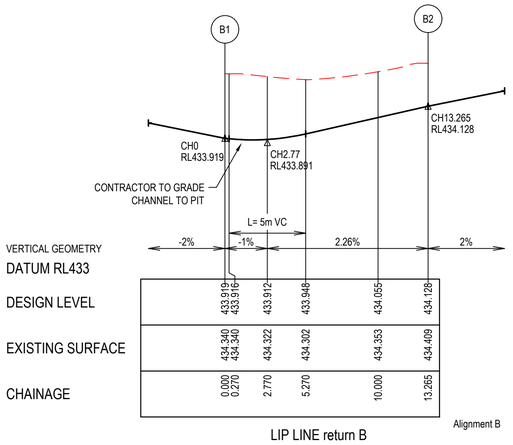
Alignment A

Point no	Easting	Northing	RL
A1	745877.817	5838640.693	433.656
A2	745887.621	5838647.536	433.919

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
A1 - A2	90.050	8.450	13.281	2.478	1.834	3.235	2.742	3.320	433.787

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





VERTICAL GEOMETRY

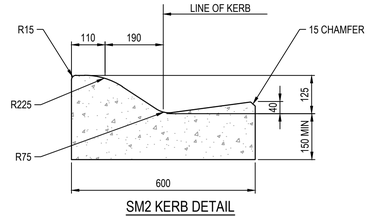
DATUM RL433					
DESIGN LEVEL	433.919 433.916	433.912	433.948	434.055	434.128
EXISTING SURFACE	434.340 434.340	434.322	434.302	434.353	434.409
CHAINAGE	0.000 0.270	2.770	5.270	10.000	13.265

LIP LINE return B

Alignment B

Point no	Easting	Northing	RL
B1	745894.214	5838646.346	433.919
B2	745901.049	5838636.551	434.128

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
B1 - B2	89.945	8.450	13.265	2.472	1.830	3.232	2.740	3.316	433.979



SM2 KERB DETAIL
SCALE 1:10

LEGEND

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- 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

HORIZONTAL

0 2 4 8 12 16 20

0 0.2 0.4 0.8 1.2 1.6 2

VERTICAL

1:200 H 1:200 V @ A1

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.
P3	SERVICE ROAD B3 KERB CHANGED TO B2	03.06.21	P.H.	R.C.
P2	KERB PROFILES REFLECTED	19.05.21	P.H.	M.J.
P1	KERB A & B UPDATED	26.11.20	P.H.	J.S.
P0	ISSUED FOR INFORMATION	05.11.20	P.H.	J.S.

REV	DESCRIPTION	DATE	DRN.	APP.
A	FOR APPROVAL	03.06.21	P.H.	R.C.

Maple Lane Estate

0 2 4 8 12 16 20

Designed	P.HUNJAN
Date	17.01.2020
Drawn	P.HUNJAN
Approved	J.SPARK
Date	17.01.2020
PS Number	PS837926A

Beveridge Williams
Suite 3/180 Eleanor Dr
Lucas VIC 3350
ph: 03 5327 2000
www.beveridgewilliams.com.au

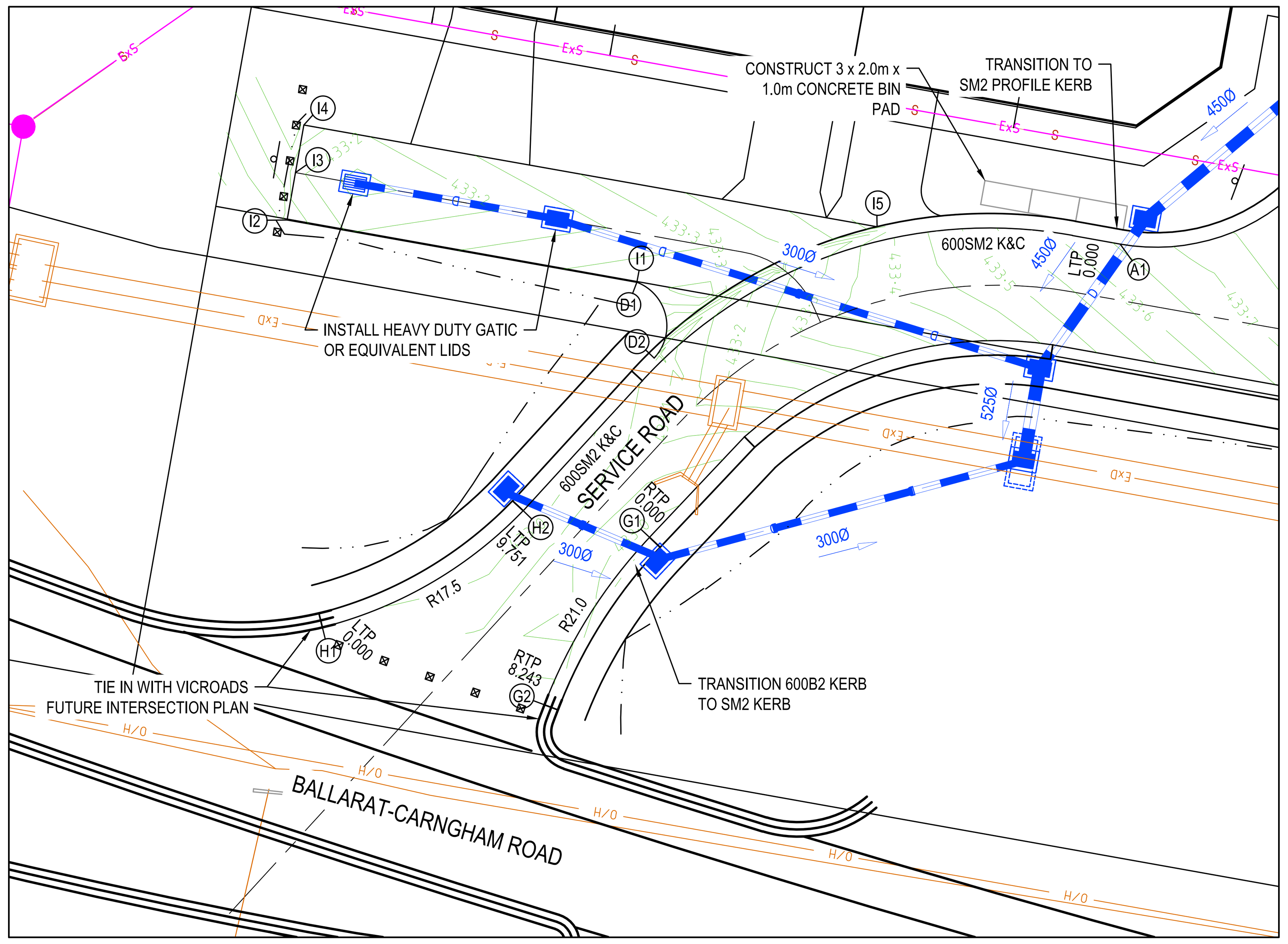
Project Details	MAPLE LANE ESTATE STAGE 02 CITY OF BALLARAT
Drawing Title	COURTBOWL LAYOUT & INTERSECTION DETAILS (SHEET 1 OF 2) HATHAWAY CLOSE AND SERVICE ROAD

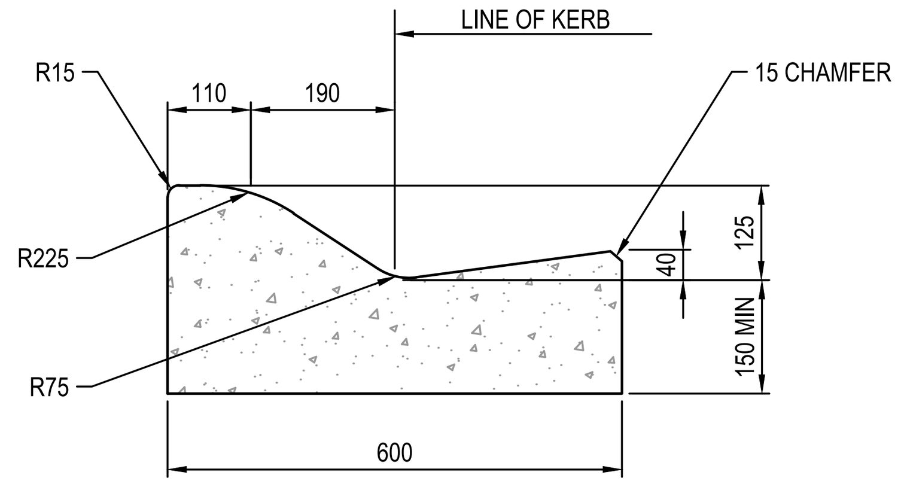
Sheet 08 of 12

Scale 1:200 @ A1

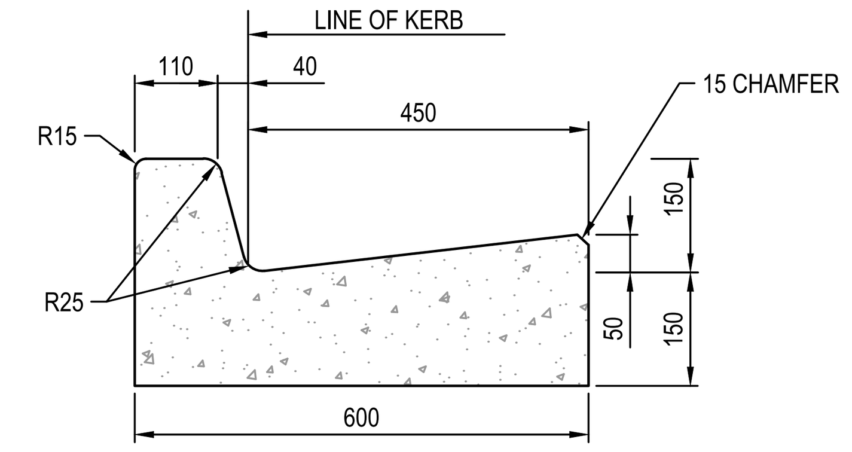
Project Ref	Stage No	Drawing No	Rev
1801844	02	300	A

\\balfile01p\Data\18\1801844 - 255 Dyson Drive, Alfredton_Eng\Stage 2\Drawings\1801844-02-300-INT.dwg

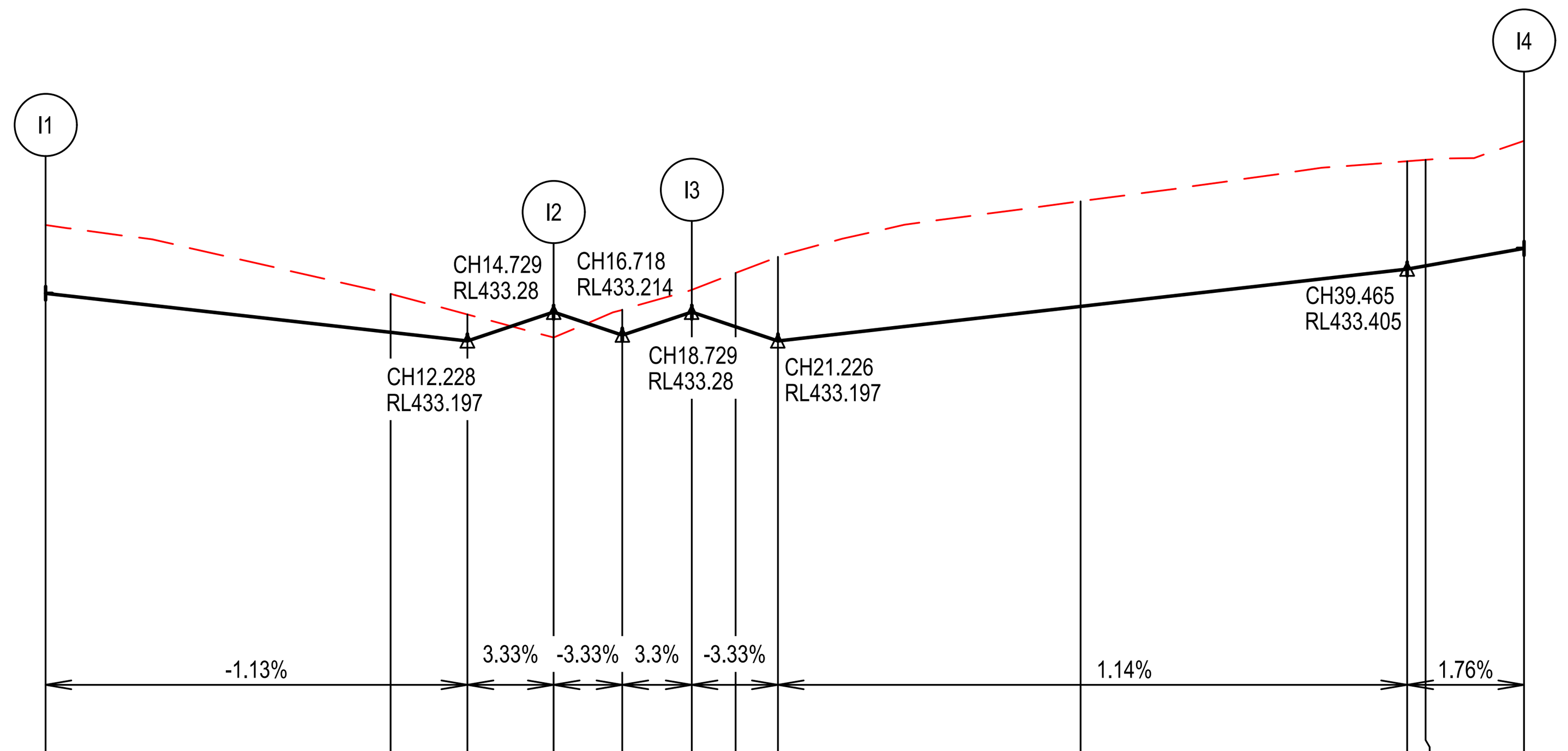




SM2 KERB DETAIL
SCALE 1:10



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



VERTICAL GEOMETRY
DATUM RL432

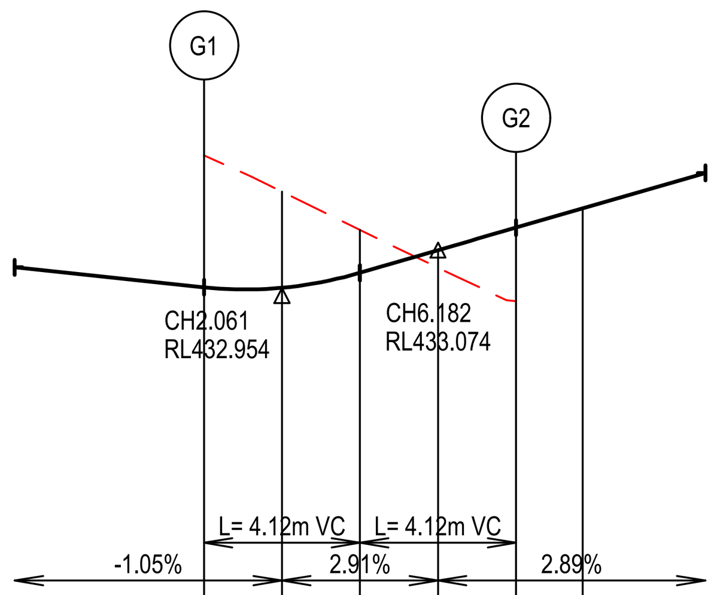
DESIGN LEVEL	433.335	433.222	433.197	433.280	433.214	433.280	433.238	433.197	433.297	433.405	433.415	433.465
EXISTING SURFACE	433.533	433.333	433.274	433.207	433.287	433.345	433.393	433.441	433.601	433.717	433.721	433.777
CHAINAGE	0.000	10.000	12.228	14.728	16.718	18.729	20.000	21.226	30.000	39.465	40.000	42.854

LIP LINE I

Alignment I

Point no	Easting	Northing	RL
I1	745857.788	5838639.113	433.335
I2	745843.286	5838641.689	433.280
I3	745843.638	5838643.658	433.214
I4	745843.989	5838645.627	433.280
I5	745867.743	5838641.411	433.465

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL



VERTICAL GEOMETRY
DATUM RL432

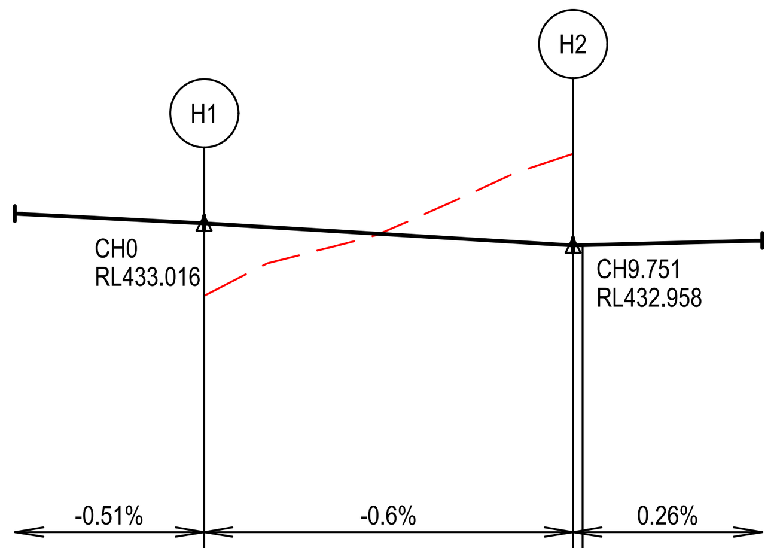
DESIGN LEVEL	432.975	432.974	433.014	433.074	433.133	433.184
EXISTING SURFACE	433.324	433.228	433.127	433.027	432.938	
CHAINAGE	0.000	2.061	4.122	6.182	8.243	10.000

LIP LINE G

Alignment G

Point no	Easting	Northing	RL
G1	745858.311	5838628.542	432.975
G2	745853.955	5838621.606	433.133

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL	
G1 - G2	22.491	21.000	8.243	0.403	0.302	2.058	2.038	2.061	433.014	



VERTICAL GEOMETRY
DATUM RL432

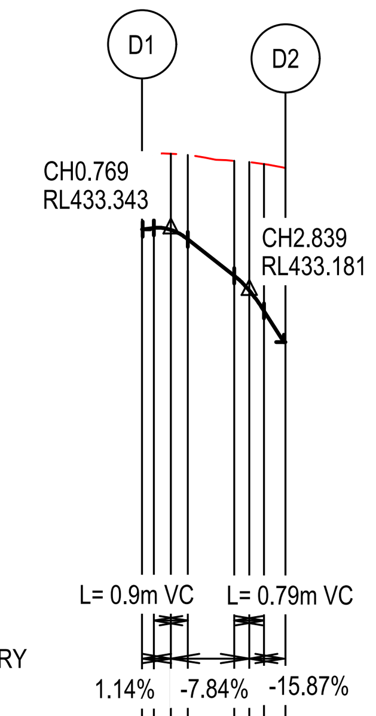
DESIGN LEVEL	433.016	432.958	432.958
EXISTING SURFACE	432.824	433.199	
CHAINAGE	0.000	9.751	10.000

LIP LINE H

Alignment H

Point no	Easting	Northing	RL
H1	745844.753	5838624.806	433.016
H2	745853.076	5838629.642	432.958

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL	
H1 - H2	31.884	17.522	9.751	0.674	0.505	2.430	2.383	2.438	432.987	



VERTICAL GEOMETRY
DATUM RL432

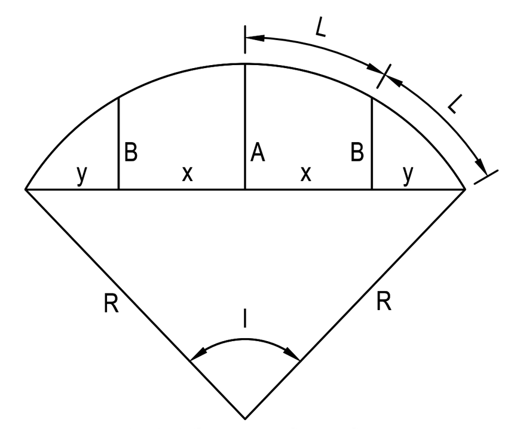
DESIGN LEVEL	433.338	433.333	433.308	433.212	433.173	433.119		
EXISTING SURFACE	433.533	433.534	433.534	433.531	433.516	433.512	433.507	433.496
CHAINAGE	0.000	0.321	0.769	1.216	2.444	2.839	3.230	3.798

LIP LINE D

Alignment D

Point no	Easting	Northing	RL
1	745857.788	5838639.113	433.343
2	745858.505	5838635.971	433.181

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL	
1 - 2	111.859	1.945	3.798	0.856	0.628	0.912	0.699	0.949	433.254	



LIP PROFILE SETOUT

LEGEND

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- 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

HORIZONTAL 0 2 4 8 12 16 20
0 0.2 0.4 0.8 1.2 1.6 2 VERTICAL
1:200 H 1:20 V @ A1

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P3	DRIVEWAY SETOUT UPDATED	03.06.21	P.H.	R.C.					
P2	KERB PROFILES AND DRIVEWAY SETOUT REFLECTED	19.05.21	P.H.	M.J.					
P1	KERB A & B UPDATED	26.11.20	P.H.	J.S.	A	FOR APPROVAL	03.06.21	P.H.	R.C.
P0	ISSUED FOR INFORMATION	05.11.20	P.H.	J.S.					

Maple Lane Estate

0 2 4 8 12 16 20

Designed P.HUNJAN
Date 17.01.2020
Drawn P.HUNJAN
Approved J.SPARK
Date 17.01.2020
PS Number PS837926A

Beveridge Williams
Suite 3/180 Eleanor Dr
Lucas VIC 3350
ph: 03 5327 2000
www.beveridgewilliams.com.au

Project Details: MAPLE LANE ESTATE
STAGE 02
CITY OF BALLARAT

Drawing Title: INTERSECTION DETAILS
(SHEET 2 OF 2)

Scale: 1:200 @ A1

Project Ref	Stage No	Drawing No	Rev
1801844	02	301	A

N

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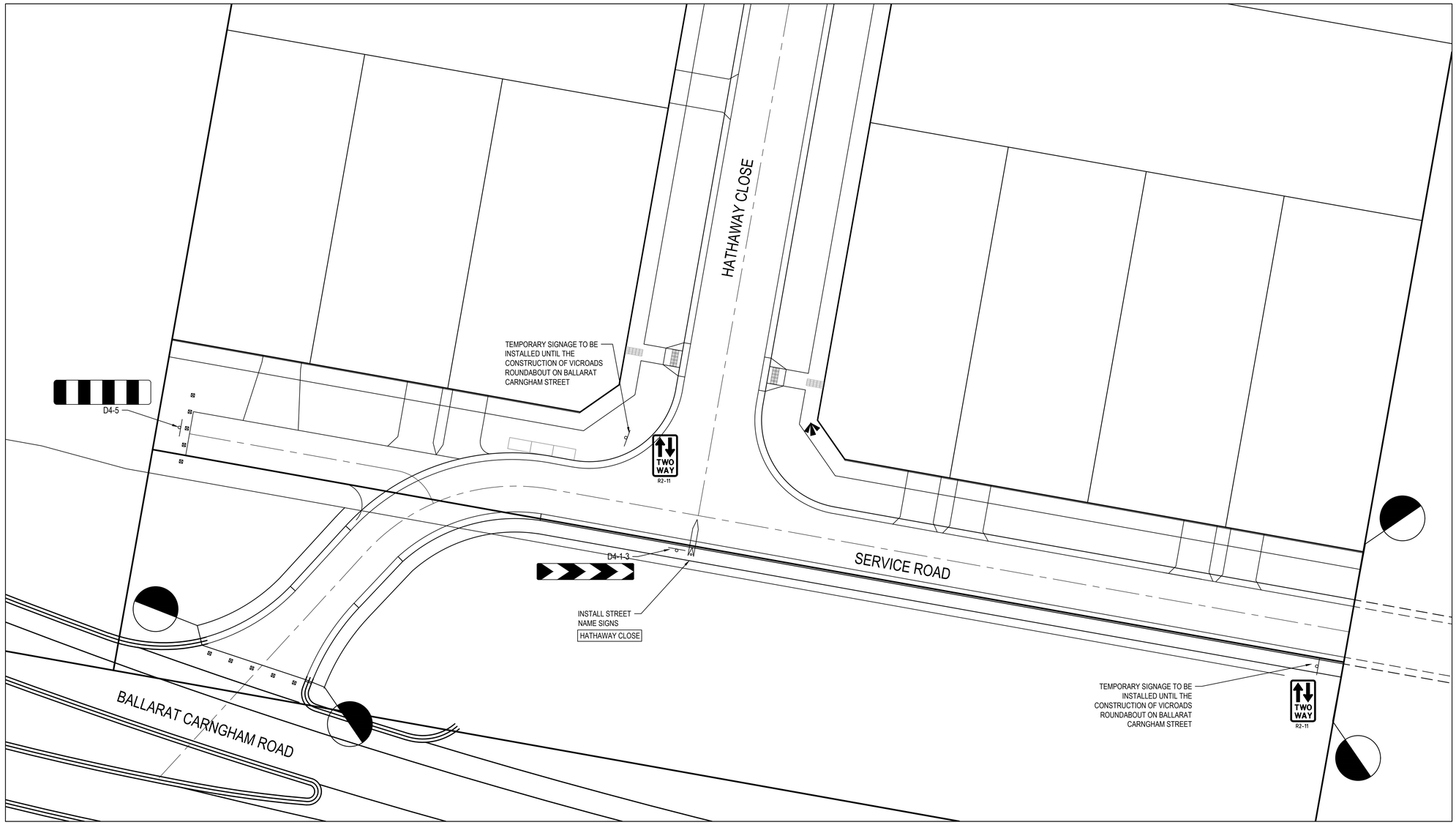

NOTES

1. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
2. LINEMARKING IN ACCORDANCE WITH AS1742.
3. TGSI TO BE INSTALLED IN ACCORDANCE WITH VICROADS RDN 06-06 - JULY 2010
4. ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVENT STREET NUMBERING.
5. ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.
P2	SIGNAGES ADDED	19.05.21	P.H.	M.J.
P1	REMOVED BALLARAT-CARNHGAM ROAD LINEMARKING	26.11.20	P.H.	J.S.
P0	ISSUED FOR INFORMATION	05.11.20	P.H.	J.S.

REV	DESCRIPTION	DATE	DRN.	APP.
A	FOR APPROVAL	03.06.21	P.H.	R.C.

Maple Lane Estate

0 2 4 8 12 16 20

Designed	P.HUNJAN
Date	17.10.2020
Drawn	P.HUNJAN
Approved	J.SPARK
Date	17.10.2020
PS Number	PS837926A

Beveridge Williams
Suite 3/180 Eleanor Dr
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www.beveridgewilliams.com.au

Project Details	MAPLE LANE ESTATE STAGE 02 CITY OF BALLARAT
Drawing Title	SINGAGE AND LINEMARKING

Sheet 10 of 12

Scale 1:200 @ A1

N

Project Ref	Stage No	Drawing No	Rev
1801844	02	350	A

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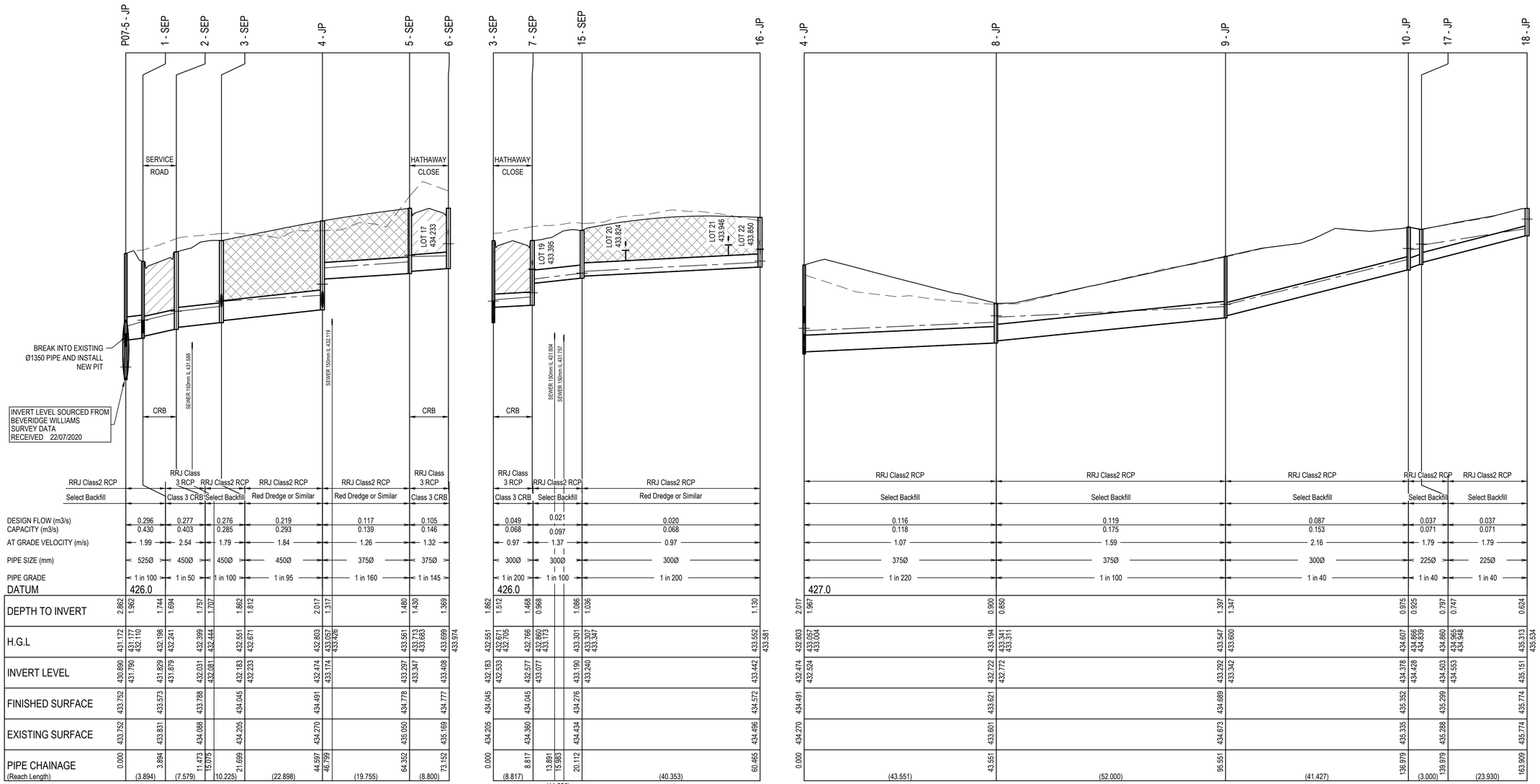
LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE
- DENOTES 20mm CLASS 3 FCR BACKFILL.
- DENOTES RED DREDGE OR OTHER APPROVED QUARRIED PRODUCT.

ISSUED FOR CONSTRUCTION


P07-5 - JP
1 - SEP
2 - SEP
3 - SEP
4 - JP
5 - SEP
6 - SEP
3 - SEP
7 - SEP
15 - SEP
16 - JP
4 - JP
8 - JP
9 - JP
10 - JP
17 - JP
18 - JP
SERVICE ROAD
HATHAWAY CLOSE
HATHAWAY CLOSE
LOT 17 434.233
LOT 19 433.395
LOT 20 433.824
LOT 21 433.946
LOT 22 433.850
BREAK INTO EXISTING Ø1350 PIPE AND INSTALL NEW PIT
INVERT LEVEL SOURCED FROM BEVERIDGE WILLIAMS SURVEY DATA RECEIVED 22/07/2020
SEWER 150mm IL 431.588
SEWER 150mm IL 432.119
SEWER 150mm IL 431.804
SEWER 150mm IL 431.737
CRB
CRB
CRB
RRJ Class 3 RCP
RRJ Class2 RCP
RRJ Class2 RCP
RRJ Class2 RCP
RRJ Class2 RCP
RRJ Class 3 RCP
RRJ Class 3 CRB
Select Backfill
Class 3 CRB
Select Backfill
Red Dredge or Similar
Red Dredge or Similar
Class 3 CRB
RRJ Class 3 CRB
Select Backfill
RRJ Class2 RCP
Select Backfill
RRJ Class2 RCP
Red Dredge or Similar
RRJ Class2 RCP
Select Backfill
RRJ Class2 RCP
Select Backfill
RRJ Class2 RCP
Select Backfill
RRJ Class2 RCP
Select Backfill
RRJ Class2 RCP
Select Backfill
DESIGN FLOW (m3/s) 0.296 0.277 0.276 0.219 0.117 0.105 0.049 0.021 0.020 0.116 0.119 0.087 0.037 0.037
CAPACITY (m3/s) 0.430 0.403 0.285 0.293 0.139 0.146 0.068 0.097 0.068 0.118 0.175 0.153 0.071 0.071
AT GRADE VELOCITY (m/s) 1.99 2.54 1.79 1.84 1.26 1.32 0.97 1.37 0.97 1.07 1.59 2.16 1.79 1.79
PIPE SIZE (mm) 525Ø 450Ø 450Ø 450Ø 375Ø 375Ø 300Ø 300Ø 300Ø 375Ø 375Ø 300Ø 225Ø 225Ø
PIPE GRADE 1 in 100 1 in 50 1 in 100 1 in 95 1 in 160 1 in 145 1 in 200 1 in 100 1 in 200 1 in 220 1 in 100 1 in 40 1 in 40 1 in 40
DATUM 426.0 426.0 427.0
DEPTH TO INVERT 2.862 1.962 1.744 1.694 1.757 1.707 1.862 1.812 2.017 1.317 1.480 1.430 1.369 1.862 1.512 1.468 0.968 1.086 1.036 1.130 2.017 1.967 0.900 0.850 1.397 1.347 0.975 0.925 0.797 0.747 0.624
H.G.L 431.172 431.177 432.110 432.198 432.241 432.399 432.444 432.551 432.671 432.803 433.057 433.426 433.561 433.713 433.683 433.699 433.974 432.551 432.671 432.705 432.766 432.860 433.173 433.301 433.307 433.347 433.552 433.581 432.803 433.057 433.004 433.194 433.341 433.311 433.547 433.600 434.607 434.866 434.839 434.860 434.965 434.948 435.313 435.534
INVERT LEVEL 430.890 431.790 431.829 431.879 432.031 432.081 432.183 432.233 432.474 433.174 433.297 433.347 433.408 432.533 432.577 433.077 433.190 433.240 433.442 432.474 432.524 432.722 432.772 433.292 433.342 434.376 434.428 434.503 434.553 435.151
FINISHED SURFACE 433.752 433.573 433.788 434.045 434.491 434.778 434.777 434.045 434.276 434.572 434.491 433.621 434.689 435.352 435.299 435.774
EXISTING SURFACE 433.752 433.831 434.088 434.205 434.270 435.050 435.169 434.205 434.360 434.434 434.496 434.270 433.601 434.673 435.335 435.288 435.774
PIPE CHAINAGE (Reach Length) 0.000 3.894 11.473 15.075 21.699 44.597 46.799 64.352 73.152 0.000 8.817 13.891 15.983 20.112 60.465 (11.295) 0.000 43.551 95.551 136.979 139.979 163.909
(3.894) (7.579) (10.225) (22.898) (19.755) (8.800) (8.817) (40.353) (43.551) (52.000) (41.427) (3.000) (23.930)

REV	DESCRIPTION	DATE	DRN.	APP.
P3	DRAINAGE LONG SECTION AND PIT SCHEDULE UPDATED	19.05.21	P.H.	M.J.
P2	DRAINAGE LONG SECTION BACKFILL UPDATED	15.12.20	P.H.	R.C.
P1	DRAINAGE UPDATED	16.11.20	P.H.	M.J.
P0	ISSUED FOR INFORMATION	05.11.20	P.H.	J.S.

REV	DESCRIPTION	DATE	DRN.	APP.
A	FOR APPROVAL	03.06.21	P.H.	R.C.

Maple Lane Estate

HORIZONTAL 0 5 10 20 30 40 50
VERTICAL 0 0.5 1 2 3 4 5

Designed	P.HUNJAN
Date	17.10.2020
Drawn	P.HUNJAN
Approved	J.SPARK
Date	17.10.2020
PS Number	PS837926A

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Project Details	MAPLE LANE ESTATE STAGE 02 CITY OF BALLARAT
Drawing Title	DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 2)

Sheet 11 of 12

Scale 1:500 H 1:50 V @ A1

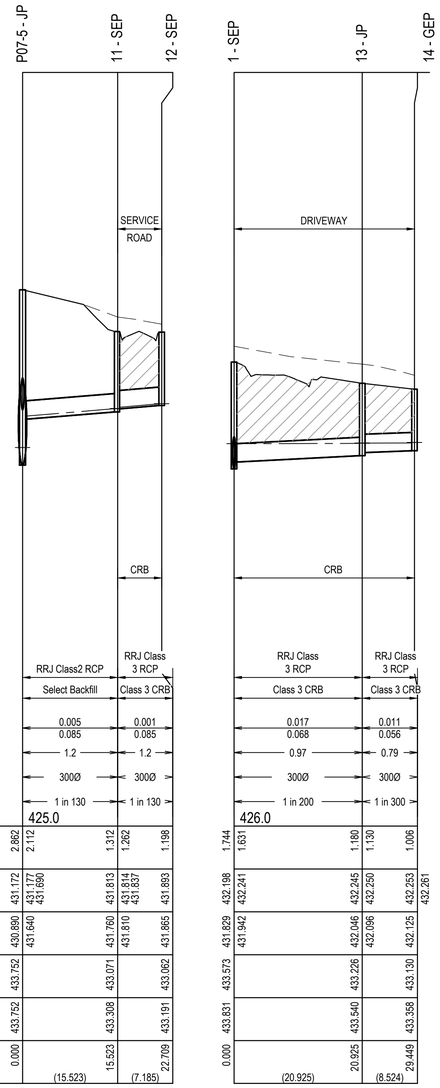
Project Ref	Stage No	Drawing No	Rev
1801844	02	400	A

\\balfile01p\Data\181\1801844 - 255 Dyson Drive, Alfredton_Eng\Stage 2\Drawings\1801844-02-400-DLS.dwg

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE
- DENOTES 20mm CLASS 3 FCR BACKFILL.
- DENOTES RED DREDGE OR OTHER APPROVED QUARRIED PRODUCT.

ISSUED FOR CONSTRUCTION



PIT SCHEDULE

PIT NUMBER	PIT TYPE	INTERNAL DIMENSION		INLET		OUTLET		COVER LEVEL (m)	DEPTH (m)	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INVERT LEVEL(m)	DIAMETER (mm)	INVERT LEVEL(m)				
P07.5	JUNCTION PIT	2100	1200	1350	430.89	1350	430.89	433.752	2.862	BCC SD - P10 - 1	BREAK INTO EXISTING PIPE AND INSTALL NEW PIT, PROVIDE STEP IRONS.
				525	431.79						
				300	431.64						
1	SIDE ENTRY PIT	900	900	450	431.879	525	431.829	433.573	1.744	BCC SD - P1 - 1	PROVIDE STEP IRONS
				300	431.942						
2	SIDE ENTRY PIT	900	900	450	432.081	450	432.031	433.788	1.757	BCC SD - P1 - 1	PROVIDE STEP IRONS
3	SIDE ENTRY PIT	900	900	450	432.233	450	432.183	434.045	1.862	BCC SD - P1 - 1	PROVIDE STEP IRONS
				300	432.533						
4	JUNCTION PIT	900	900	375	433.174	450	432.474	434.491	2.017	BCC SD - P10 - 1	PROVIDE STEP IRONS
				375	432.524						
5	SIDE ENTRY PIT	900	900	375	433.347	375	433.297	434.778	1.48	BCC SD - P1 - 1	PROVIDE STEP IRONS
6	SIDE ENTRY PIT	900	900			375	433.408	434.777	1.369	BCC SD - P1 - 1	PROVIDE STEP IRONS
7	SIDE ENTRY PIT	900	900	300	433.077	300	432.577	434.045	1.468	BCC SD - P1 - 1	PROVIDE STEP IRONS
15	SIDE ENTRY PIT	750	900	300	433.24	300	433.19	434.276	1.086	BCC SD - P1 - 1	
16	JUNCTION PIT	600	900			300	433.442	434.572	1.13	BCC SD - P10 - 1	
8	JUNCTION PIT	600	900	375	432.772	375	432.722	433.621	0.9	BCC SD - P10 - 1	
9	JUNCTION PIT	900	900	300	433.342	375	433.292	434.689	1.397	BCC SD - P10 - 1	PROVIDE STEP IRONS
10	JUNCTION PIT	600	900	225	434.428	300	434.378	435.352	0.975	BCC SD - P10 - 1	
17	JUNCTION PIT	600	900	225	434.553	225	434.503	435.299	0.797	BCC SD - P10 - 1	
18	JUNCTION PIT	600	900			225	435.151	435.774	0.624	BCC SD - P10 - 1	
11	SIDE ENTRY PIT	900	900	300	431.81	300	431.76	433.071	1.312	BCC SD - P1 - 1	PROVIDE STEP IRONS.
12	SIDE ENTRY PIT	900	900			300	431.865	433.062	1.198	BCC SD - P1 - 1	
13	JUNCTION PIT	600	900	300	432.096	300	432.046	433.226	1.18	BCC SD - P10 - 1	PROVIDE HEAVY DUTY LID
14	GRATED ENTRY PIT	600	900			300	432.125	433.13	1.006	BCC SD - P9	PROVIDE HEAVY DUTY LID

REV	DESCRIPTION	DATE	DRN.	APP.
P4	DRAINAGE LONG SECTION UPDATED FOR DRIVEWAY	03.06.21	P.H.	R.C.
P3	DRAINAGE LONG SECTION AND PIT SCHEDULE UPDATED	19.05.21	P.H.	M.J.
P2	DRAINAGE LONG SECTION BACKFILL UPDATED	15.12.20	P.H.	R.C.
P1	DRAINAGE UPDATED	16.11.20	P.H.	M.J.
P0	ISSUED FOR INFORMATION	05.11.20	P.H.	J.S.
A	FOR APPROVAL	03.06.21	P.H.	R.C.

Maple Lane Estate

HORIZONTAL 0 5 10 20 30 40 50
VERTICAL 0 0.5 1 2 3 4 5

Designed P.HUNJAN
Date 17.10.2020
Drawn P.HUNJAN
Approved J.SPARK
Date 17.10.2020
PS Number PS837926A

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Project Details: MAPLE LANE ESTATE
STAGE 02
CITY OF BALLARAT

Drawing Title: DRAINAGE LONGITUDINAL SECTIONS & PIT SCHEDULE (SHEET 2 OF 2)

Sheet 12 of 12
Scale 1:500 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1801844	02	401	A

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