

MAPLE GROVE, PAKENHAM - STAGE 2

SATTERLY PROPERTY GROUP

CARDINIA SHIRE COUNCIL

CONSTRUCTION NOTES

SITE MANAGEMENT

- A1. 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 contractor's occupational health & safety procedures must be lodged with the superintendent prior to commencement of works.
- A2. All native trees & 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 & / 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 Cardinia Shire Council landscape approvals officer.
- A3. 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 supervising engineer.
- A4. Prior to commencement of works, the contractor must submit a Site Management Plan (SMP) to the consultant 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 & maintenance period of the works.
- A5. Provide temporary safety barrier fence (Farm Fence as per MW Std Dwg 7251/4/203) along extent of outfall drain where the drain is greater than 1.5m in depth & side slopes are steeper than 1 in 3. Safety fence to remain until permanent underground drainage is installed.
- A6. Contractor to remove existing irrigation & drainage pipes & pits encountered on site. Trenches to be backfilled in accordance with notes C2 & C3.

GENERAL

- B1. All works to be carried out in accordance with AS2124-1992 general conditions of contract & the Cardinia Shire Council current specification & standard drawings & to the satisfaction of the Cardinia Shire Council works supervisor.
- B2. Council to be notified two (2) clear days prior to commencement of works.
- B3. Before commencement of works on trenches in excess of 1.5m deep, the civil contractor's 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) & undertake safety precautions in trenching operations in accordance with Workcover's code of practice (1988).
- B4. Lots to be graded (1 in 150 min slope) & left clean to the satisfaction of the engineer. Finished levels to be compatible with lots adjoining this stage.
- B5. On completion the contractor is responsible for the removal of all rubbish & spoil from site. No surplus trees, vegetation or other material is to be burnt on site.
- B6. Reserves to be free draining & to be left in a condition satisfactory to the Cardinia Shire Council works supervisor.
- B7. Where works are in the vicinity of existing services these services are to be located & the various authorities notified prior to the commencement of works.
- B8. 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 re-installment at the contractor's expense.
- B9. Provide painted paling fence along any boundary common to lots & municipal reserves as per Council Std. Dwg. S-706. Palings to be on the reserve side.

ROADWORKS

- C1. 100e agricultural pipe drains (MPA standard drawing EDCM 202) to be placed behind all kerb & channel & buffer pitches & where directed by the engineer.
- C2. Filling in all properties & road reserves is to be carried out using approved clay fill. Top soil & all vegetable matter to be stripped from site prior to filling. All filling to be carried out in accordance with AS3798-2007 and the geotechnical report. Level 1 inspection and testing to be carried out in accordance with AS3798-2007 Section 8.2. A fill report must be submitted to the Consultant, showing from a NATA registered soil testing laboratory.
- C3. Importing Fill - All imported fill must be tested by a NATA approved laboratory to ensure it is suitable for use on site, & any contaminants are within accepted levels. Under no circumstances should fill material enter or leave the site without the permission of the supervising engineer & Council works supervisor, prior to it being appropriately tested. All vehicles transporting fill material to & from the site must have appropriate measures in place to ensure that material does not get onto roads & into stormwater systems & natural waterways.
- C4. Batters to be 1 in 5 for fill & 1 in 3 for cut unless noted otherwise.
- C5. Cut batters are to be grassed & mulched with a mixture of chopped grass, straw & bitumen emulsion.
- C6. Where cut batters exceed 700mm an additional 300mm berm shall be formed behind footpath.
- C7. Access ramps are to be constructed where cut batters exceed 1.0m. They are to be graded 1 in 10 for the first 2.5m from the back of path & then at a maximum of 1 in 4 to natural surface.

- C8. 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 concrete marks the kerb & footpath exactly above the conduit.
- C9. 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.
- C10. All footpaths are to be 125mm thick 25MPa concrete with SL72 mesh centrally located in accordance with the MPA standard drawing EDCM 401.
- C11. NBN Co to be notified seven (7) days prior to concrete works being placed.
- C12. 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.
- C13. All street signs to be constructed & erected to current Cardinia Shire Council standards including logo. Court street names are to show court name only.
- C14. Traffic control signs, markings & delineators to be installed in accordance with AS1742.2. All line marking is to be long life road marking, with longitudinal lines in thermoplastic & transverse markings in cold applied.
- C15. Driveways to be constructed in accordance with the MPA standard drawings EDCM 501 & EDCM 502. Single driveways to be a minimum 3.5m wide & to be offset 0.75m from side boundary or easement unless otherwise shown.
- C16. Kerb transition to take place in the minor street over a 2.0m length from either the tangent point or TP pit.
- C17. Existing road works to be reconstructed as required to provide, without discontinuity, a connection in accordance with design levels & grades.
- C18. Provide 2.5m wide shared footpath through reserves as shown on a curvilinear alignment to the satisfaction of the engineer.
- C19. Tactile ground surface indicators (TGSIs) are to be installed at all tram crossings & pedestrian cross points in accordance with AS1428.4 : 2002 & MPA standard drawing EDCM 403.

DRAINAGE

- D1. Drainage & pits to be set out from offsets shown rather than from centreline pipe chainages.
- D2. Lightweight fibreglass type pit lids are required for all drainage pits & all grades for pits are to be Class D, to comply with AS3996 unless otherwise shown. All drainage works are to be constructed to council specifications.
- D3. All pipes up to and including 750mm in diameter shall be rubber ring jointed (RRJ). Pipes above this size may be flush jointed with external sealing bands. For pipes greater than 900mm and changes in direction between 2 connecting pipes exceeding 10° construct segmented curves using splayed pipes with banded joints, having deflections within the manufacturer's specification.
- D4. All pipes to be Class '2' R.C. unless noted otherwise. PVC pipes to be Class SH unless specified.
- D5. Pipe trenches beneath the road pavement, footpath or within 150mm of the kerb & channel to be backfilled with 20mm Class 3 FCR in 150mm layers.
- D6. Property inlets to be constructed as per MPA standard drawing EDCM 701 - EDCM 704.
- D7. All proposed drainage stubs to be blanked off at end of pipe with timber planks to the satisfaction of the supervising engineer.

PAVEMENT

- E1. Modification of the pavement requires approval by the Cardinia Shire Council works supervisor.

SURVEY ORIGIN

NAR-NAR-GOON PM 332

10 CANTY LANE

RL 32.751

MGA Coords MGA Truncated

E 369546.435 E 9546.922

N 5783887.680 N 3889.141

COORDINATES ARE ON A LOCAL PLANE DATUM BASED UPON MGA2020 ZONE 55 BEARINGS AND TRUNCATED COORDINATES AT PM332. HEIGHTS ARE TO AHD VIDE PERMANENT MARK PM 123 (NAR NAR GOON) RL 17.239 AND SR71M210 RL 17.800.

FOR CONVERSION TO MGA2020 ZONE 55 COORDINATES.
FOR PLANE SHIFT ADD +360,000.000 TO EASTINGS AND
+5,780,000.000 TO NORTHINGS.
FOR SCALE FACTOR MULTIPLY BY 0.9998045 AT PM332

DRAWING INDEX

DRAWING No.	TITLE	REVISION
1701814-02-001	COVER SHEET	F
1701814-02-002	TYPICAL ROAD CROSS SECTIONS	B
1701814-02-003	PAVEMENT MAKEUP & GENERAL DETAILS	A
1701814-02-004	DRAINAGE AND SWALE DETAILS	A
1701814-02-005	RETAINING WALL DETAIL (SHEET 1 OF 2)	A
1701814-02-006	RETAINING WALL DETAIL (SHEET 2 OF 2)	B
1701814-02-010	LAYOUT PLAN (SHEET 1 OF 2)	D
1701814-02-011	LAYOUT PLAN (SHEET 2 OF 2)	E
1701814-02-020	PAVEMENT PLAN	B
1701814-02-030	RETAINING WALL PLAN (SHEET 1 OF 3)	C
1701814-02-031	RETAINING WALL PLAN (SHEET 2 OF 3)	A
1701814-02-032	RETAINING WALL PLAN (SHEET 3 OF 3)	B
1701814-02-100	ROAD LONGITUDINAL SECTIONS ANNUAL AVENUE	A
1701814-02-101	ROAD LONGITUDINAL SECTIONS NATIVE RIDGE	A
1701814-02-102	ROAD LONGITUDINAL SECTIONS TOPIARY STREET	A
1701814-02-103	ROAD LONGITUDINAL SECTIONS PEBBLE ROAD	A
1701814-02-104	ROAD LONGITUDINAL SECTIONS OASIS WAY	A
1701814-02-200	ROAD CROSS SECTIONS ANNUAL AVENUE (SHEET 1 OF 3)	B
1701814-02-201	ROAD CROSS SECTIONS ANNUAL AVENUE (SHEET 2 OF 3)	A
1701814-02-202	ROAD CROSS SECTIONS ANNUAL AVENUE (SHEET 3 OF 3)	B
1701814-02-203	ROAD CROSS SECTIONS NATIVE RIDGE (SHEET 1 OF 2)	A
1701814-02-204	ROAD CROSS SECTIONS NATIVE RIDGE (SHEET 2 OF 2)	A
1701814-02-205	ROAD CROSS SECTIONS TOPIARY STREET (SHEET 1 OF 2)	A
1701814-02-206	ROAD CROSS SECTIONS TOPIARY STREET (SHEET 2 OF 2)	A
1701814-02-207	ROAD CROSS SECTIONS PEBBLE ROAD (SHEET 1 OF 2)	A
1701814-02-208	ROAD CROSS SECTIONS PEBBLE ROAD (SHEET 2 OF 2) & OASIS WAY	A
1701814-02-300	INTERSECTION DETAILS (SHEET 1 OF 4)	A
1701814-02-301	INTERSECTION DETAILS (SHEET 2 OF 4)	B
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1701814-02-400	DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 4)	A
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1701814-02-403	DRAINAGE LONGITUDINAL SECTIONS (SHEET 4 OF 4)	A
1701814-02-404	PIT SCHEDULE	D
1701814-02-420	OUTFALL OPEN DRAIN DETAILS	B
1701814-02-450	PLAN OF SUBDIVISION	A



SITE PLAN

NOT TO SCALE

MELWAY REF: 318 B7

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
E	SHEETS UPDATED	21.08.23	CD	NM					
D	SHEETS UPDATED	18.08.23	CD	NM					
C	SHEETS 011 AND 030 UPDATED	26.07.23	CD	NM					
B	SHEETS 010, 011, 401, 402, & 404 UPDATED	14.06.23	CD	NM					
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM	F	SHEET 006 UPDATED	13.12.23	CD	CD

Designed Y.SAVRIMOOTOO
Date 22.08.2022
Drawn M.F. JAURIGUE
Checked N.MARTENS
Date 30.11.22
Approved N.MARTENS
Reg. No. PS0008272
Date 01.10.2022
PS Number PS908410U

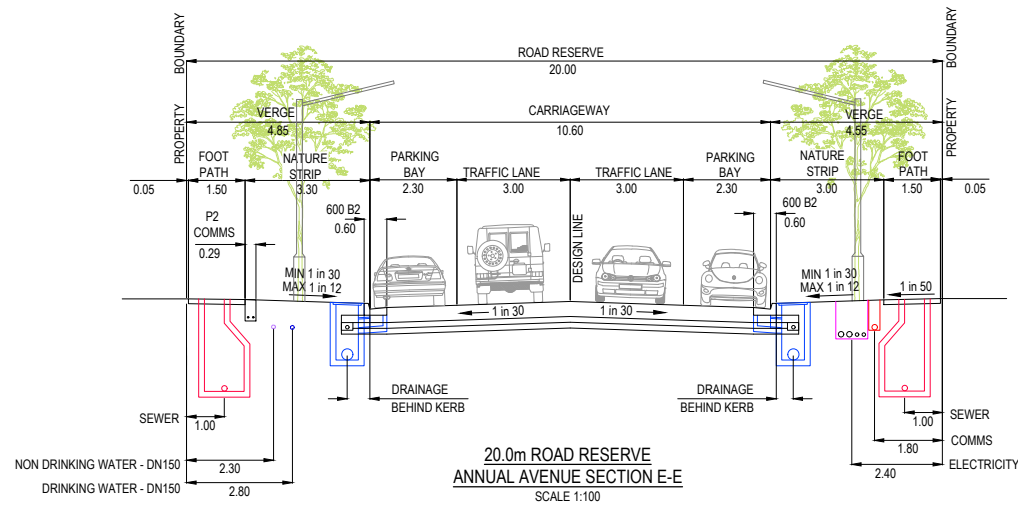
BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL
Drawing Title
COVER SHEET

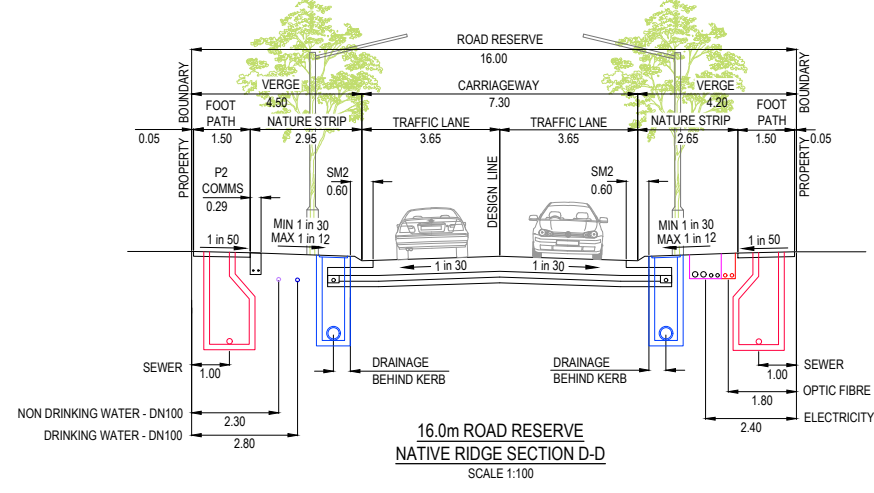
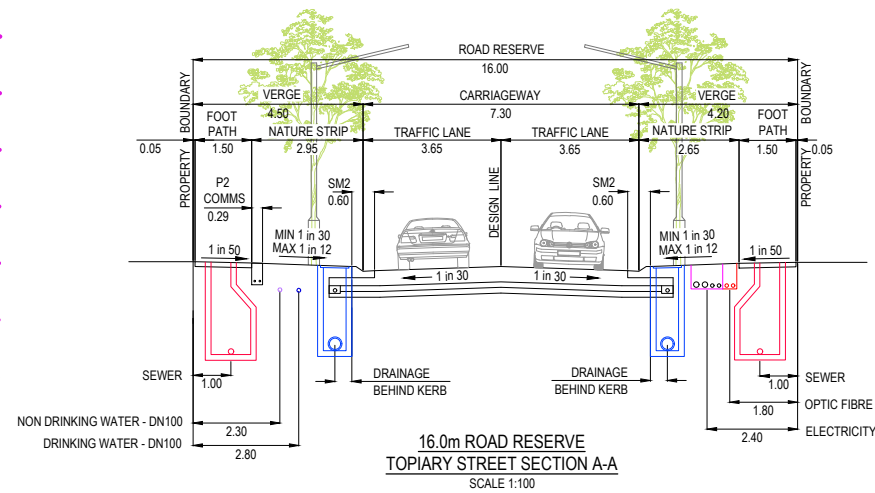
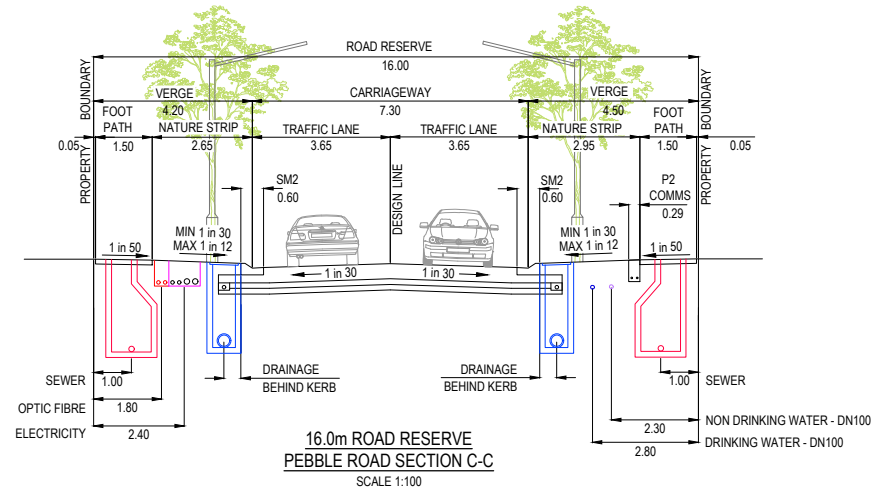
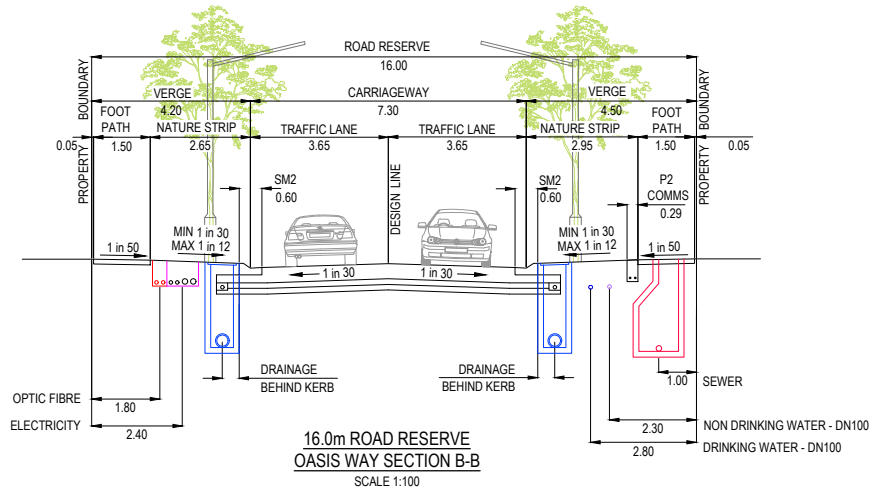
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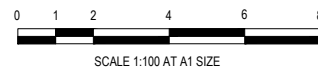


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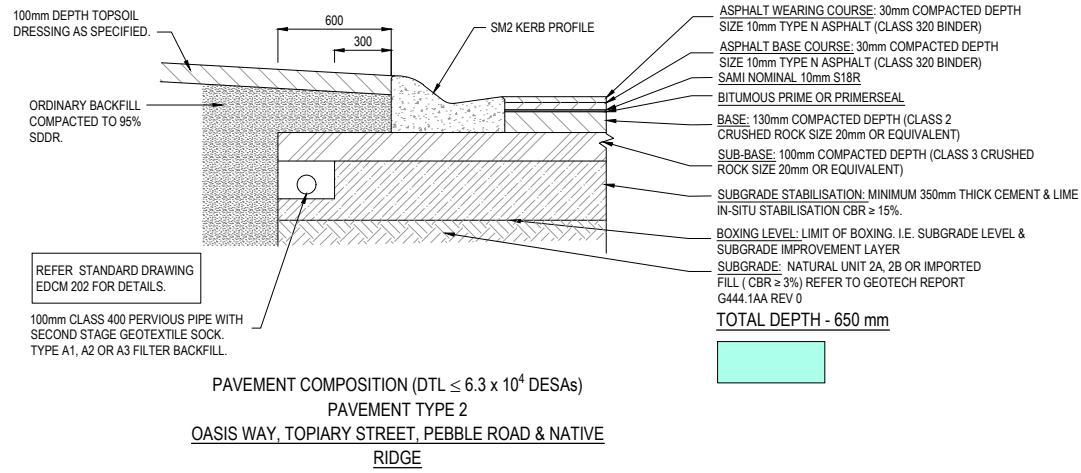
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STAGE 2
CARDINIA SHIRE COUNCIL
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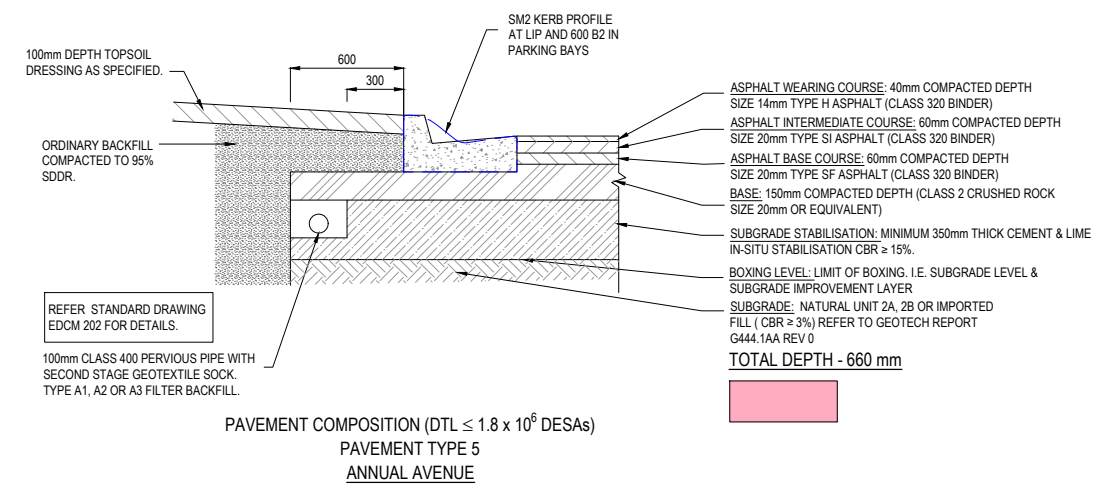
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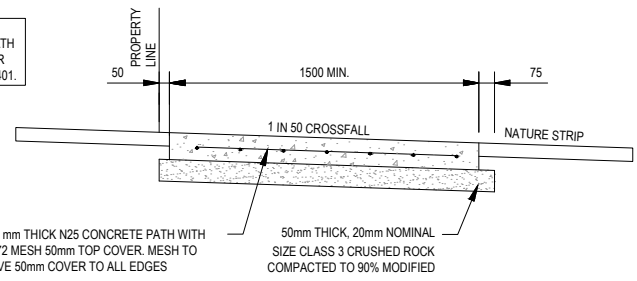


PAVEMENT COMPOSITION (DTL ≤ 6.3 x 10⁴ DESAs)
PAVEMENT TYPE 2
OASIS WAY, TOPIARY STREET, PEBBLE ROAD & NATIVE RIDGE

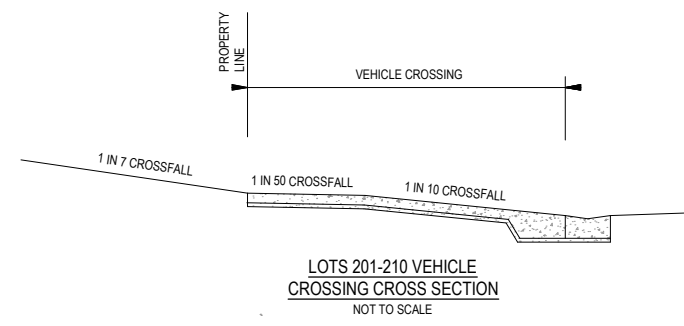


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PAVEMENT TYPE 5
ANNUAL AVENUE

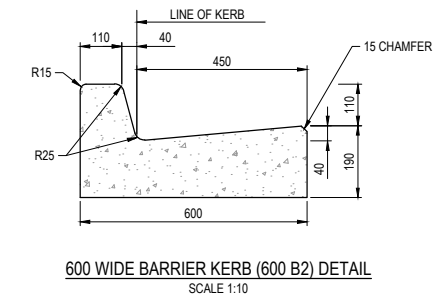
NOTE:
FOOTPATHS AND SHARED PATH
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STANDARD DRAWING EDM 401.



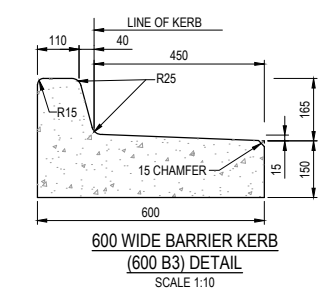
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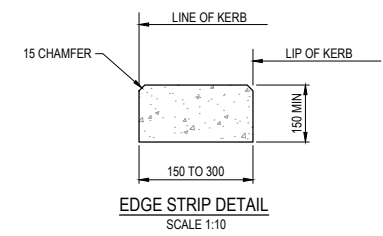
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CROSSING CROSS SECTION
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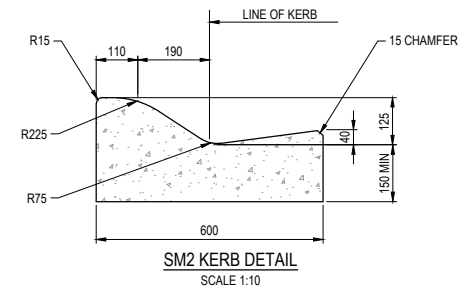
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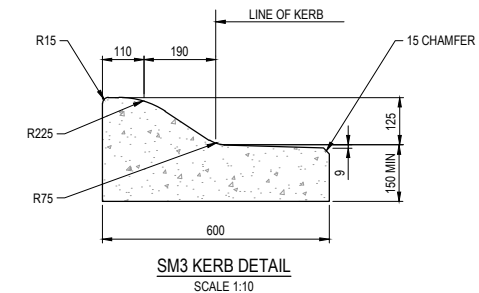
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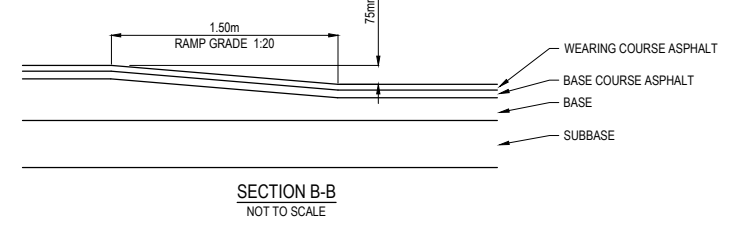
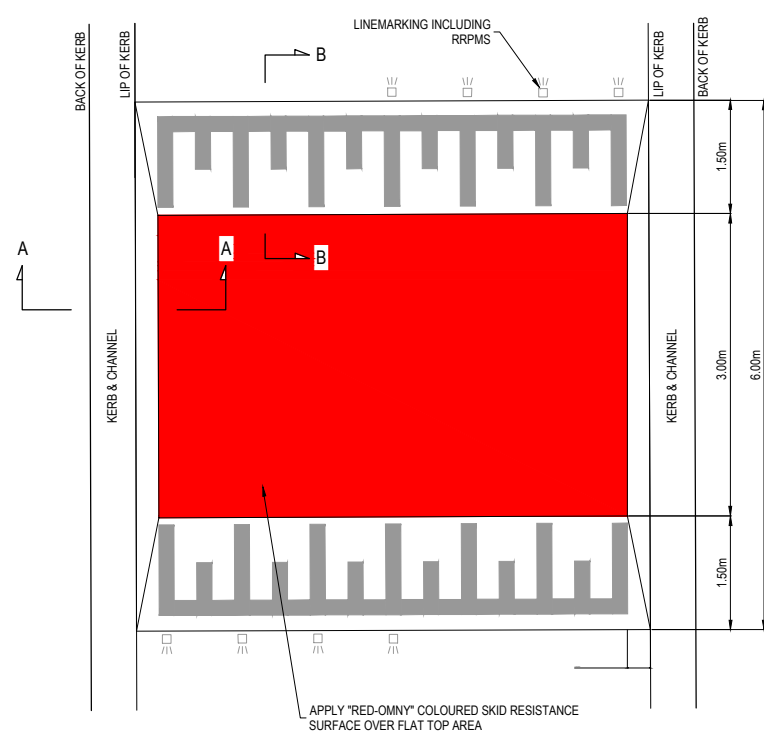
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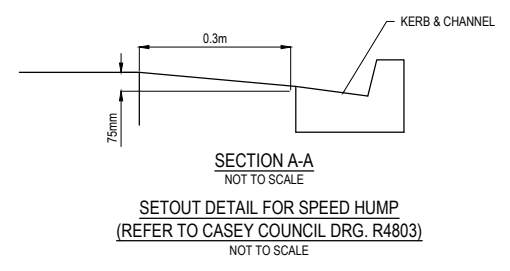
SM2 KERB DETAIL
SCALE 1:10



SM3 KERB DETAIL
SCALE 1:10



SECTION B-B
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SECTION A-A
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SETOUT DETAIL FOR SPEED HUMP
(REFER TO CASEY COUNCIL DRG. R4803)
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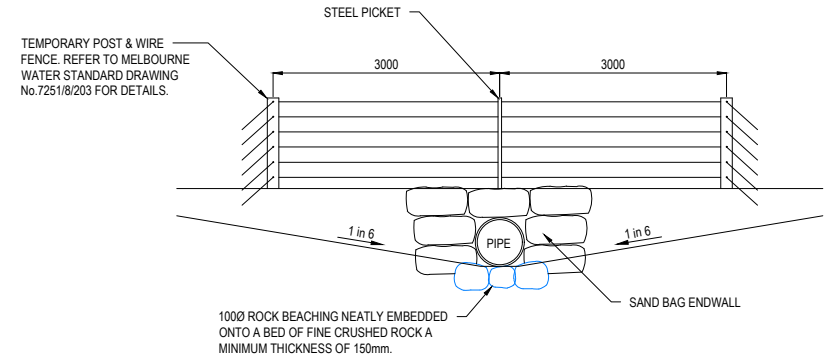
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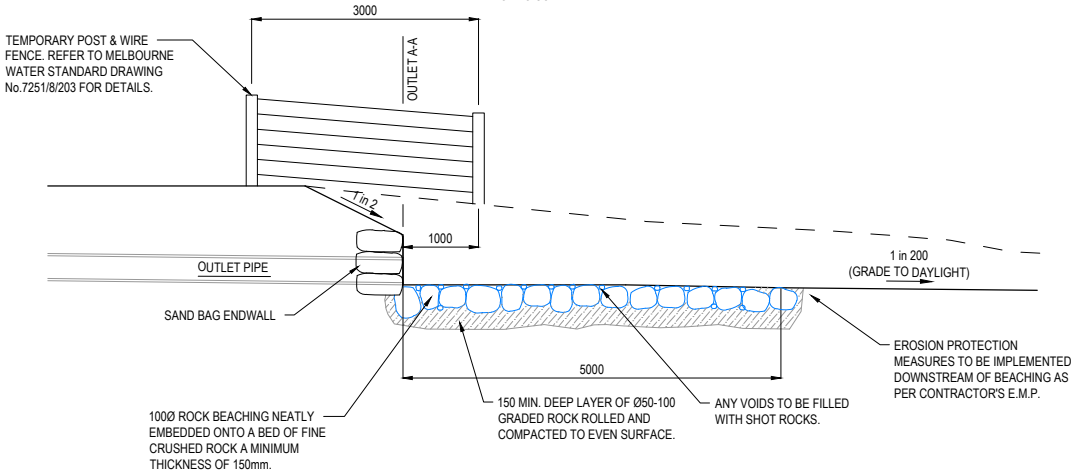
Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL

Drawing Title
PAVEMENT MAKEUP & GENERAL DETAILS

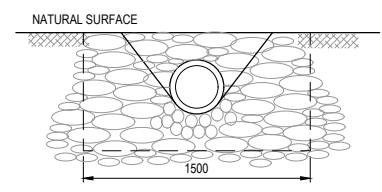
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Drawing No 003	Rev A



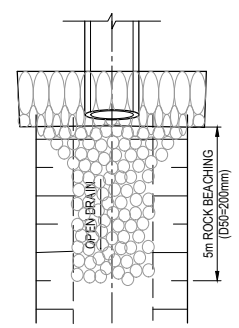
SECTION A-A
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OUTLET
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TEMPORARY OUTLET WITH SANBAG ENDWALL

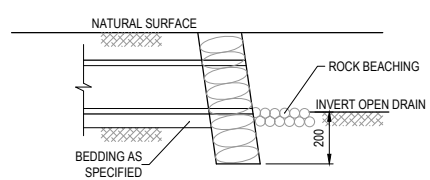


END ELEVATION

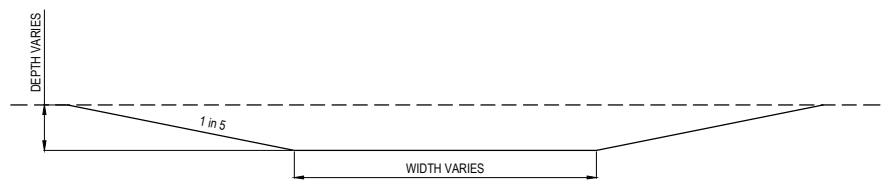


PLAN

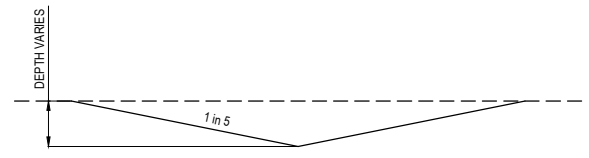
SANBAG ENDWALL DETAIL
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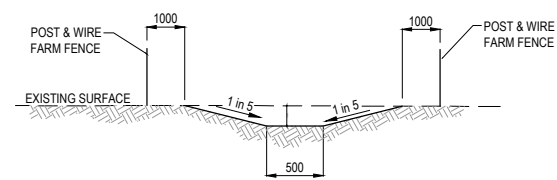
SIDE ELEVATION



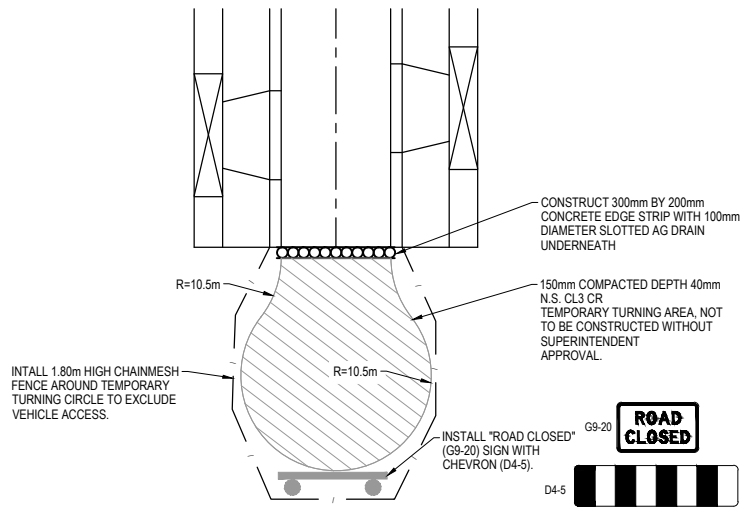
SWALE DRAIN TYPICAL SECTION
NOT TO SCALE



SWALE DRAIN TYPICAL SECTION
NOT TO SCALE



TEMPORARY OUTFALL CHANNEL DETAIL
NOT TO SCALE



TEMPORARY TURN AREA DETAIL
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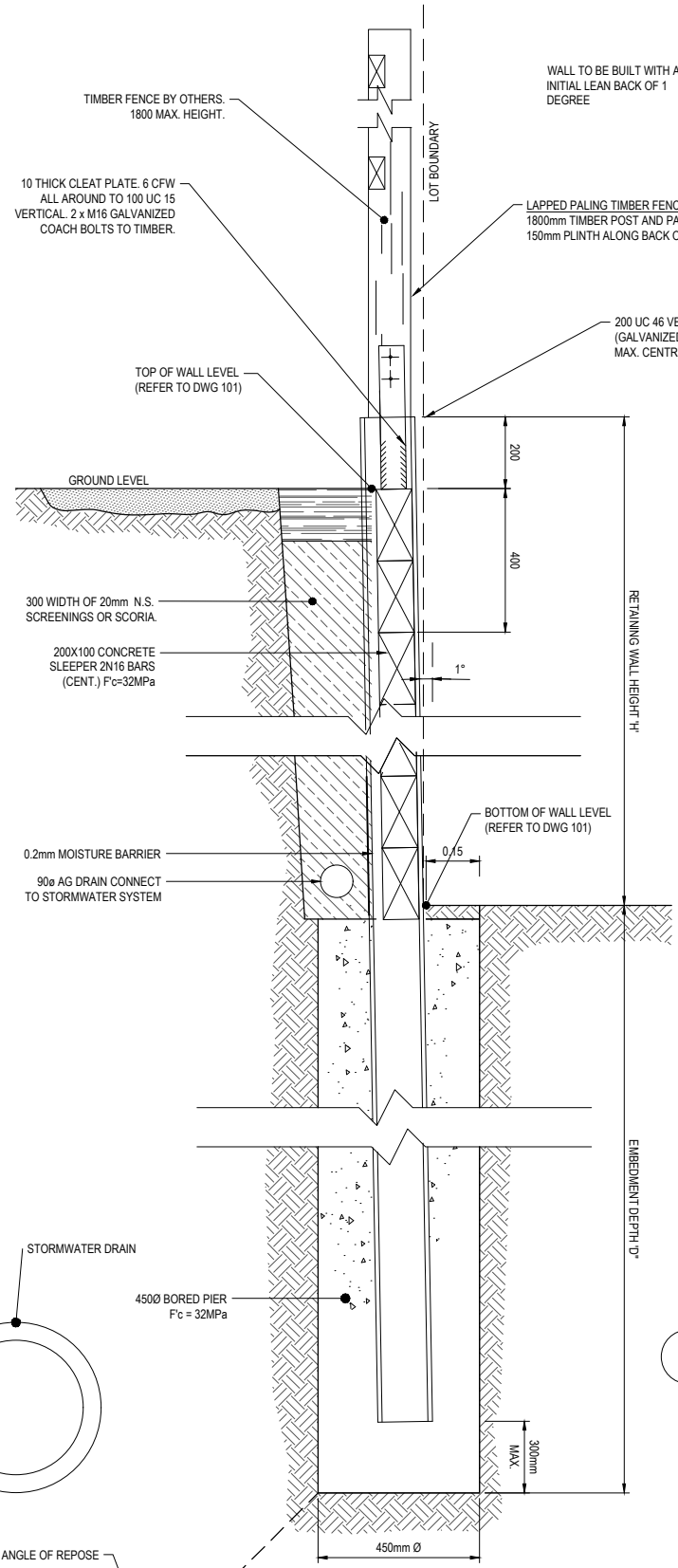
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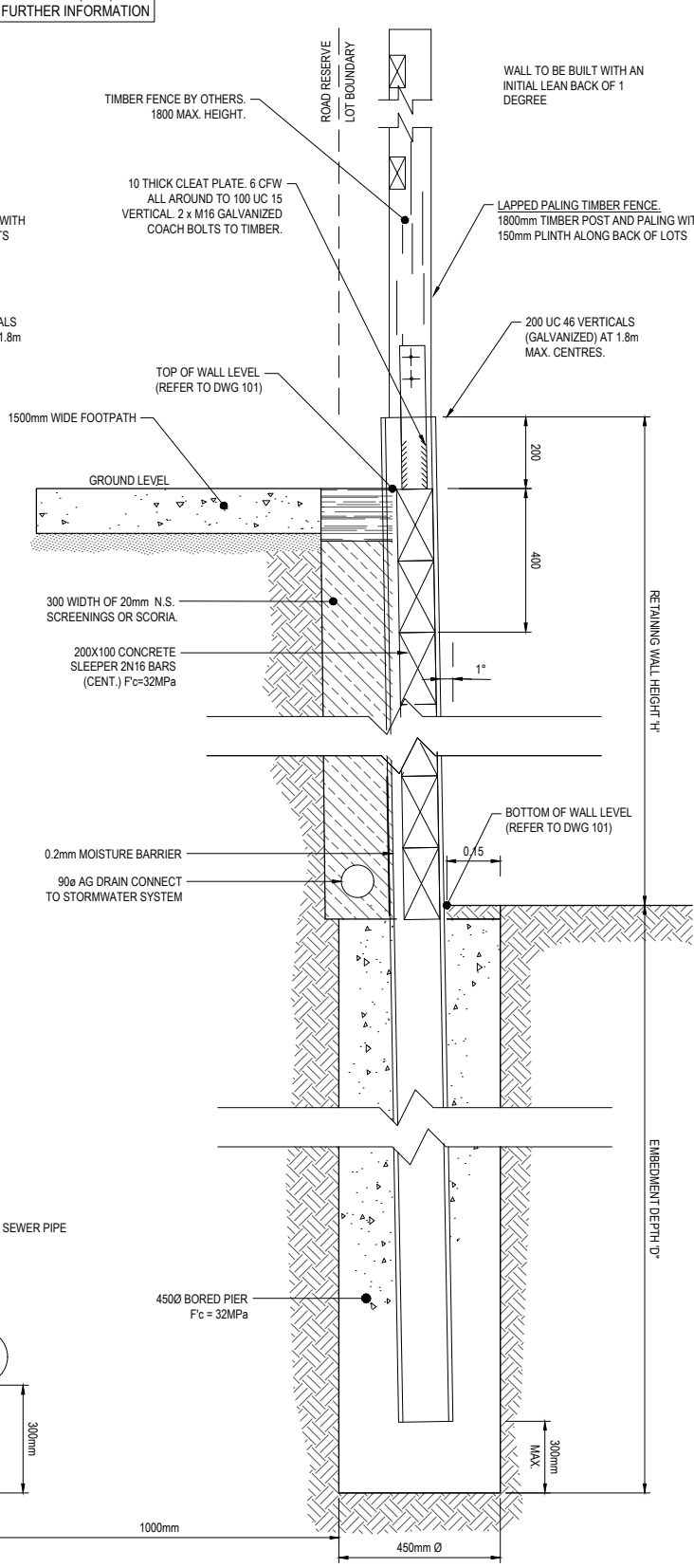
Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL
Drawing Title
DRAINAGE AND SWALE DETAILS

Sheet	04 of 38
Scale	AS SHOWN
Project Ref	1701814
Stage No	02
Drawing No	004
Rev	A

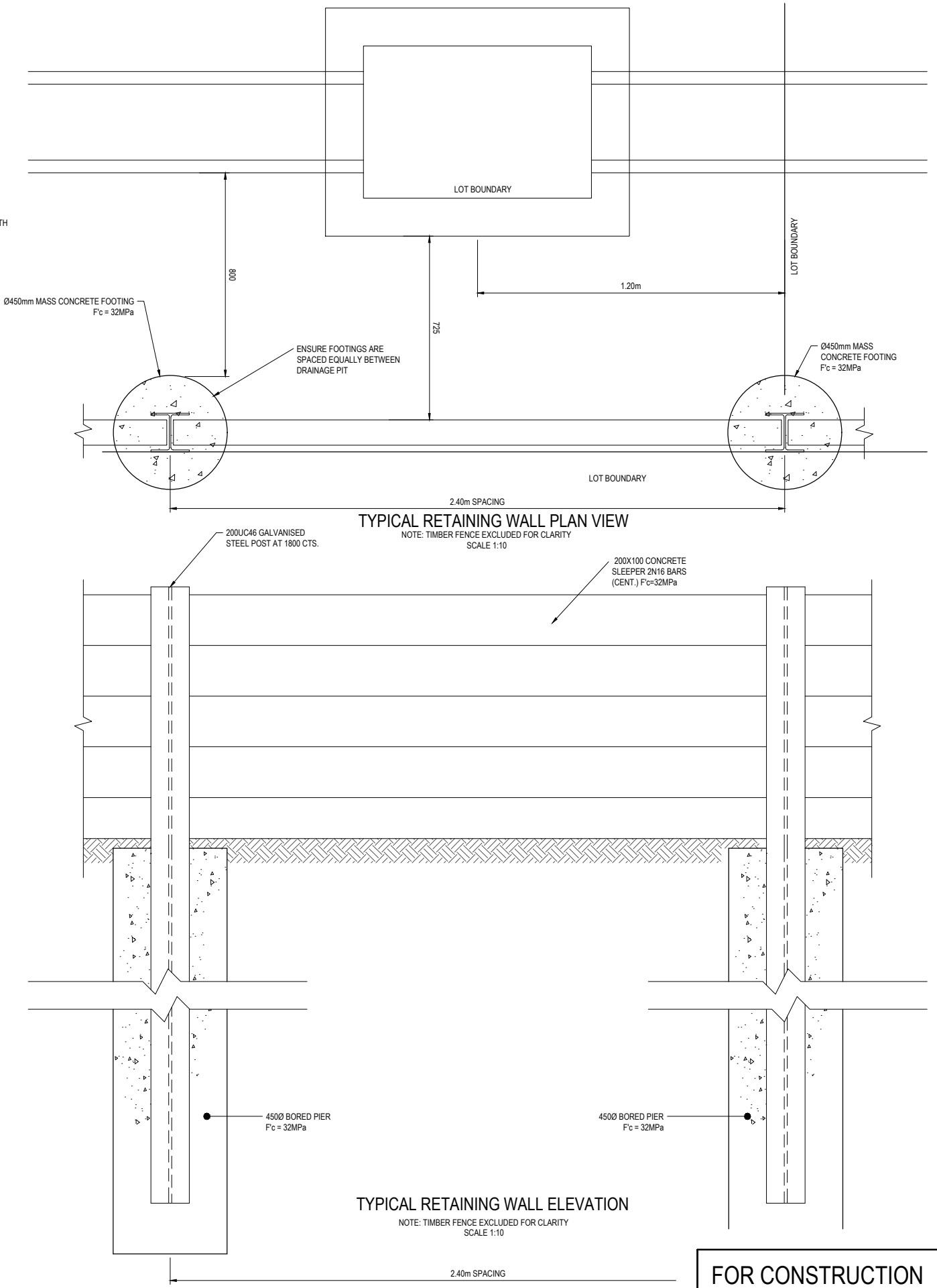
REFER TO RETAINING WALL STRUCTURAL DRAWINGS (3734) FOR FURTHER INFORMATION



TYPICAL RETAINING WALL SECTION WITHIN BACK OF LOTS
SCALE 1:10



TYPICAL RETAINING WALL SECTION WITHIN SIDE OF LOTS
SCALE 1:10



TYPICAL RETAINING WALL PLAN VIEW
NOTE: TIMBER FENCE EXCLUDED FOR CLARITY
SCALE 1:10

TYPICAL RETAINING WALL ELEVATION
NOTE: TIMBER FENCE EXCLUDED FOR CLARITY
SCALE 1:10

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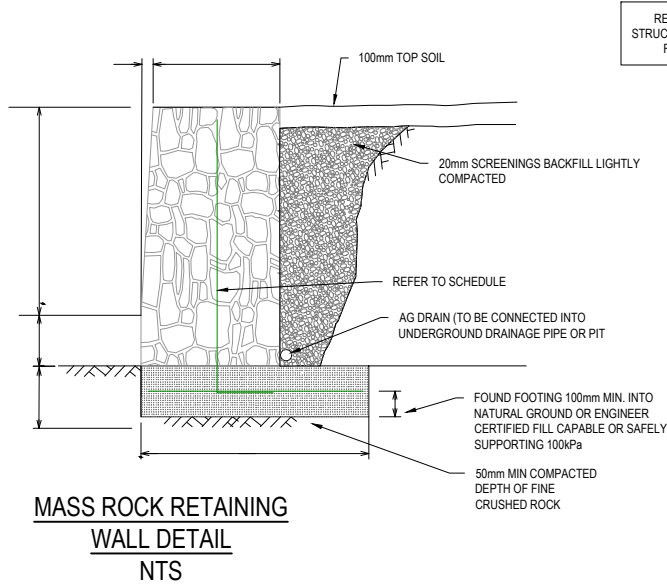
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Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
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Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL
Drawing Title
RETAINING WALL DETAIL
(SHEET 1 OF 2)

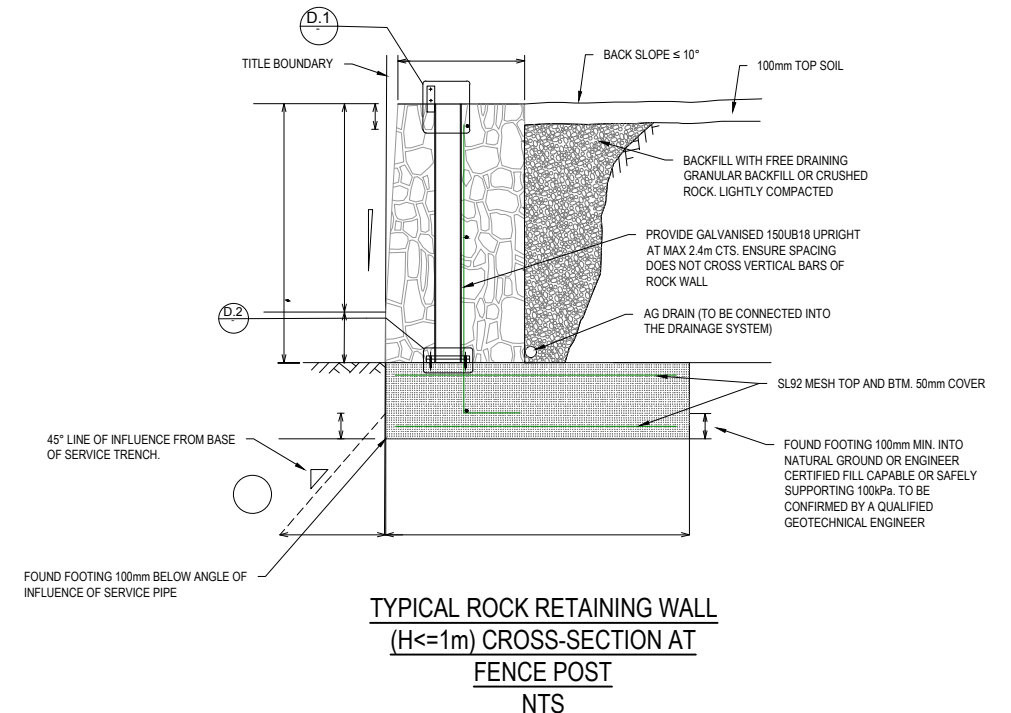
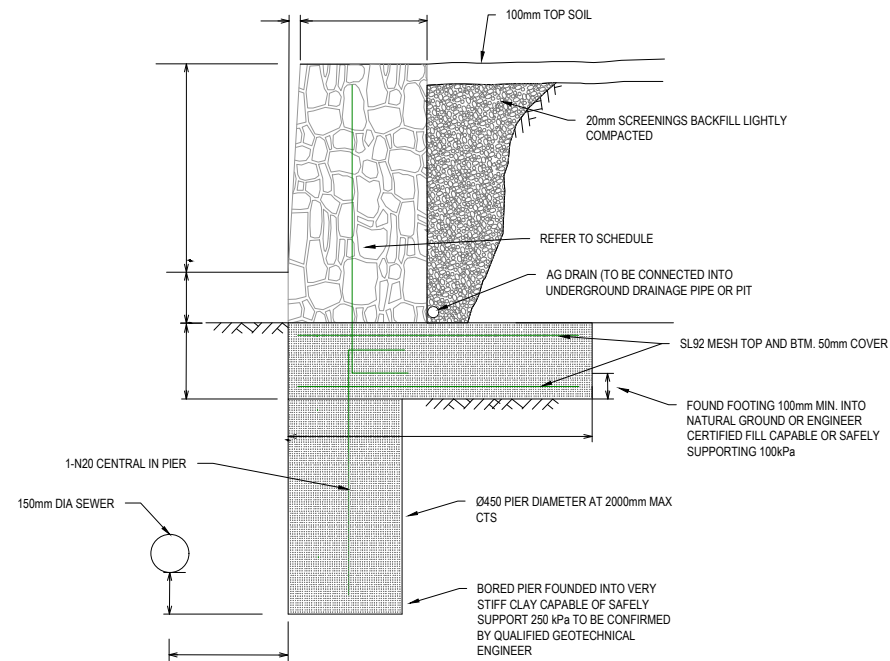
Sheet 05 of 38

Scale
AS SHOWN

Project Ref	Stage No	Drawing No	Rev
1701814	02	005	A



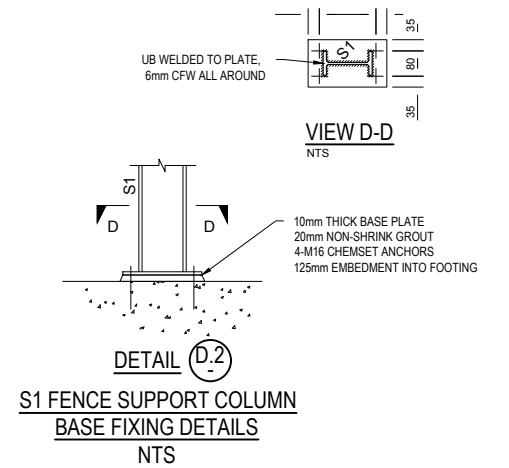
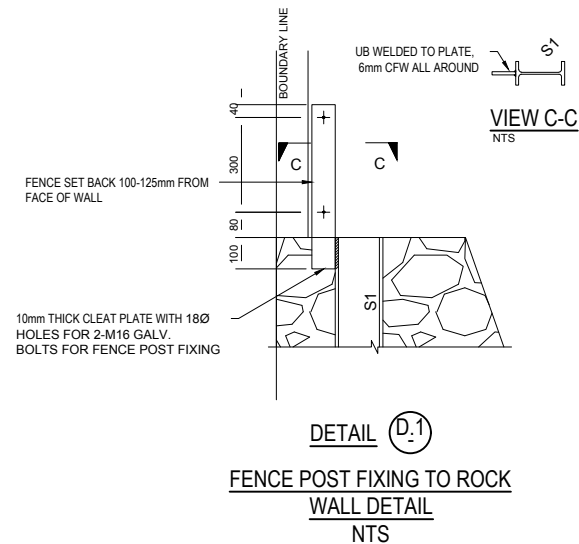
REFER TO RETAINING WALL STRUCTURAL DRAWINGS (3734) FOR FURTHER INFORMATION



MASS ROCK RETAINING WALL SCHEDULE			
MAX WALL HEIGHT-H ₁ (mm)	FOOTING DEPTH-D ₁ (mm)	FOOTING WIDTH-W ₁ (mm)	REINFORCEMENT SCHEDULE (GALV.)
0-500	200	900	N12-600 VERT. CENTRAL, N12-400 HORIZ. CENTRAL, 400 LAP WHERE NECESSARY
501-1000	200	1300	

MASS ROCK RETAINING WALL SCHEDULE			
MAX WALL HEIGHT-H ₁ (mm)	FOOTING DEPTH-D ₁ (mm)	FOOTING WIDTH-W ₁ (mm)	REINFORCEMENT SCHEDULE (GALV.)
0-500	300	1200	N12-600 VERT. CENTRAL, N12-400 HORIZ. CENTRAL, 400 LAP WHERE NECESSARY
501-1000	300	1500	

- RETAINING WALL NOTE R.1
 a. WHERE FOOTPATH ABUTS RETAINING WALL CONTINUE CONCRETE UP TO BASE OF RETAINING WALL.
- FOOTING NOTE F.2
 a. TOE OF WALL SHALL PENETRATE THROUGH ANY FILL MATERIAL & THE NATURAL SILT SOILS TO BE FOUNDED AT LEAST 100mm INTO THIS UNDERLYING NATURAL STILL CLAY OR WEATHERED ROCK.
 ALL EXCAVATIONS SHALL HAVE FOUNDED DEPTHS AND BEARING CAPACITY APPROVED BY THE ENGINEER OR BUILDING SURVEYOR BEFORE CONCRETE IS PLACED.
 FOOTING EXCAVATIONS WHICH ARE DEPEND TO PENETRATE THROUGH UNSUITABLE SOILS SHALL BE BACKFILLED UP TO UNDERSIDE OF FOOTINGS WITH 15 MPa BLINDING CONCRETE.
 b. ALL EXCAVATION FOUNDED SURFACES SHALL BE LEVEL (NOT INCLINED) CLEAN CUT & FREE OF MUD OR WATER.
 c. ALL SEEPAGE INFLOW SHALL BE REMOVED BEFORE PLACEMENT OF CONCRETE.
 d. FOOTINGS SHALL BE FOUNDED IN STIFF NATURAL CLAY HAVING A SAFE BEARING CAPACITY OF 150kPa.



FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
B	FENCE POST DETAIL ADDED	13.12.23	CD	CD					
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					

Designed: Y.SAVRIMOOTOO
 Date: 22.08.2022
 Drawn: M.F. JAURIGUE
 Checked: N.MARTENS
 Date: 30.11.22
 Approved: N.MARTENS
 Reg. No.: PE0008272
 Date: 01.10.2022
 PS Number: PS908410U

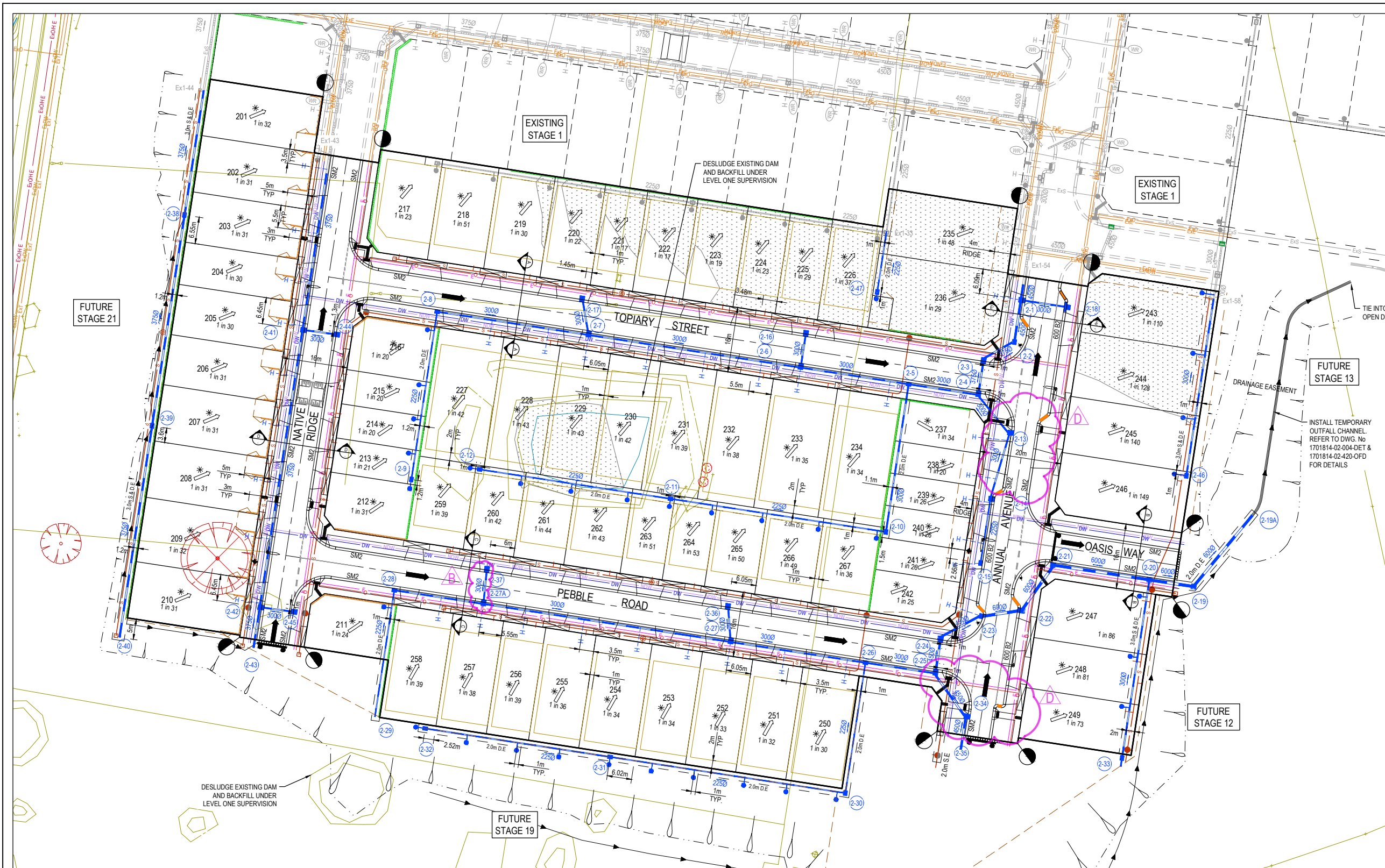
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 Development & Infrastructure Consultants
 1 Glenferrie Road Malvern VIC 3144
 ph: 03 9524 8888
 www.beveridgewilliams.com.au

Project Details
 10 CANTY LANE, PAKENHAM
 STAGE 2
 CARDINIA SHIRE COUNCIL

Drawing Title
 RETAINING WALL DETAIL
 (SHEET 2 OF 2)

Sheet 06 of 38
 Scale AS SHOWN

Project Ref: 1701814
 Stage No: 02
 Drawing No: 006
 Rev: B



Location	ND - Water		Water		Electricity		Telecommunication		Sewer	
	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)
ANNUAL AVENUE	W	2.30	W	2.80	E	2.40	E	1.80	W	1.00
NATIVE RIDGE	W	2.30	W	2.80	E	2.40	E	1.80	E/W	1.01/0
TOPIARY STREET	S	2.30	S	2.80	N	2.40	N	1.80	N/S	1.01/0
PEBBLE ROAD	N	2.30	N	2.80	S	2.40	S	1.80	N/S	1.01/0
OASIS WAY	N	2.30	N	2.80	S	2.40	S	1.80	N	1.0

LEGEND - LAYOUT PLAN

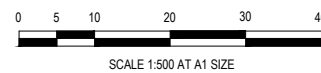
STORMWATER DRAIN, PIT & PROPERTY INLET	EXISTING STORMWATER DRAIN	EXISTING SURFACE LEVEL	DIRECTION OF FALL
MELBOURNE WATER DRAIN & PIT	EXISTING MELBOURNE WATER DRAIN	FINISHED BUILDING LINE LEVEL	OVERLAND FLOW
SWALE DRAIN	EXISTING ELECTRICITY (UNDERGROUND)	FINISHED RIDGE LINE LEVEL	ALLOTMENT TO BE GRADED EVENLY IN
SEWER & MAINTENANCE STRUCTURES	EXISTING ELECTRICITY (OVERHEAD)	TOP OF RETAINING WALL	DIRECTION OF FALL TO LEVELS INDICATED
HOUSE DRAIN	EXISTING GAS	BOTTOM OF RETAINING WALL	CONCRETE EDGE STRIP WITH SUBSOL DRAIN,
SERVICE CONDUITS	EXISTING OPTIC FIBRE	PAD LEVEL	"NO ROAD" SIGN & BARRIER
ELECTRICITY (UNDERGROUND)	EXISTING TELECOMMUNICATIONS	RIDGE LINE	LIMIT OF WORKS
ELECTRICITY (OVERHEAD)	EXISTING WATER	MASS ROCK RETAINING WALL	EXISTING TREE TO BE REMOVED
OPTIC FIBRE	EXISTING RECYCLED WATER	CONCRETE SLEEPER RETAINING WALL	PERMANENT SURVEY MARK AS PER DWG CSC-004
TELECOMMUNICATIONS	EXISTING SEWER	PAVEMENT TREATMENT	TEMPORARY BENCH MARK
GAS	EXISTING HOUSE DRAIN	STRUCTURAL FILL > 200mm DEEP	PROPOSED DRIVEWAY
WATER	EXISTING SWALE DRAIN	EX. STRUCTURAL FILL > 200mm DEEP	TREE PROTECTION ZONE (TPZ)
RECYCLED WATER	TACTILE PAVERS (INDICATIVE ONLY)	KERB TRANSITION SM2 TO 600B2	

WARNING
BWARE OF UNDERGROUND SERVICES
 The locations of underground services are approximate only and their exact position should be proven on site.
 No guarantee is given that all existing services are shown. Locate all underground services before commencement of works.
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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
D	GAS REMOVED, PBAY REDUCED, PRAM CROSSINGS AMENDED	21.08.23	CD	NM					
C	DRAINAGE PITS 2-13, 2-14, 2-34, & 2-35 UPDATED	18.08.23	CD	CD					
B	PITS 2-37 & 2-37A SHIFTED	14.06.23	CD	NM					
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					



Designed Y.SAVRIMOOTOO
 Date 22.08.2022
 Drawn M.F. JAURIGUIE
 Checked N.MARTENS
 Date 30.11.22
 Approved N.MARTENS
 Reg. No. PS0008272
 Date 01.10.2022
 PS Number PS908410U

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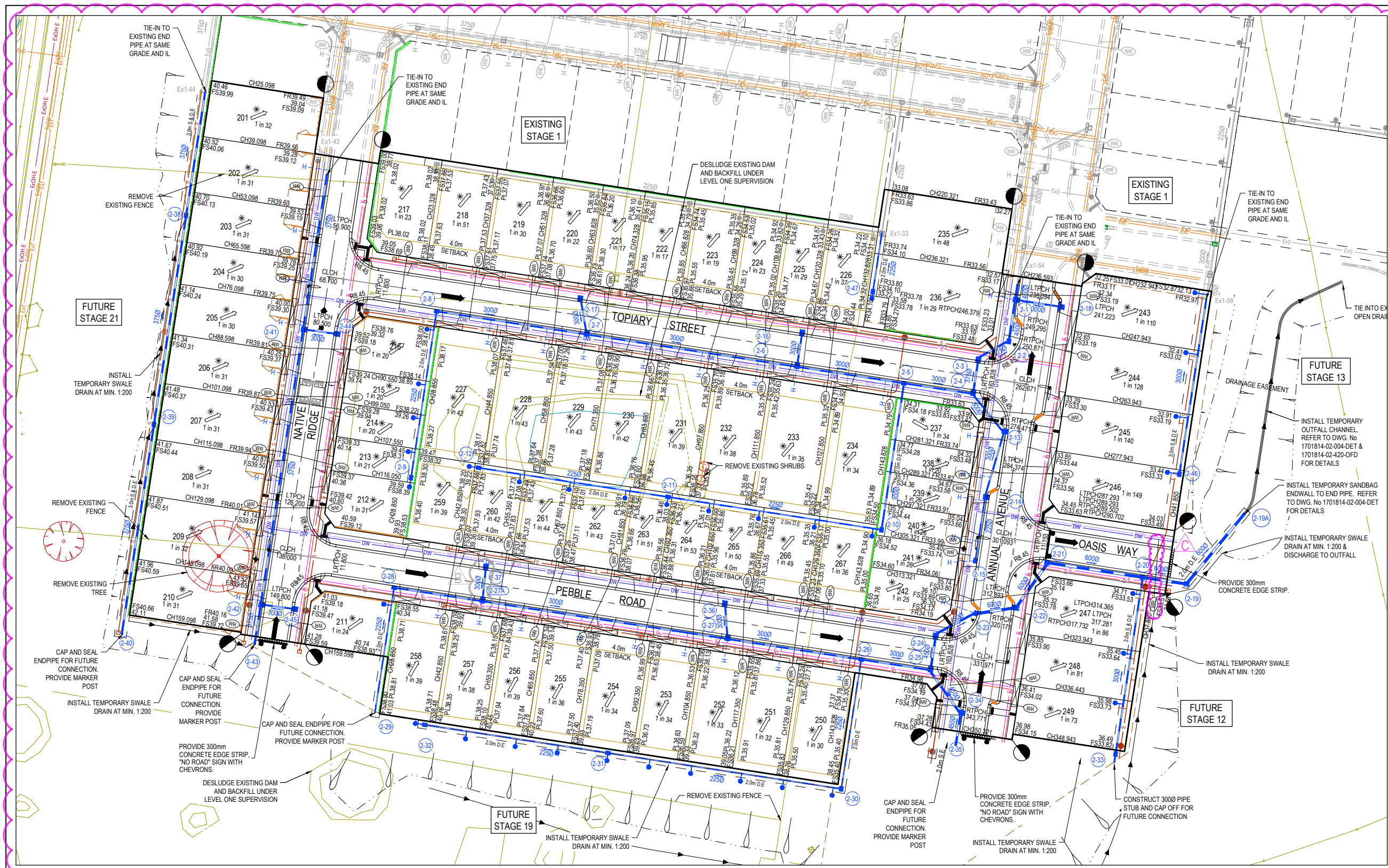
Project Details
 10 CANTY LANE, PAKENHAM
 STAGE 2
 CARDINIA SHIRE COUNCIL
 Drawing Title
 LAYOUT PLAN
 (SHEET 1 OF 2)

Sheet 07 of 38

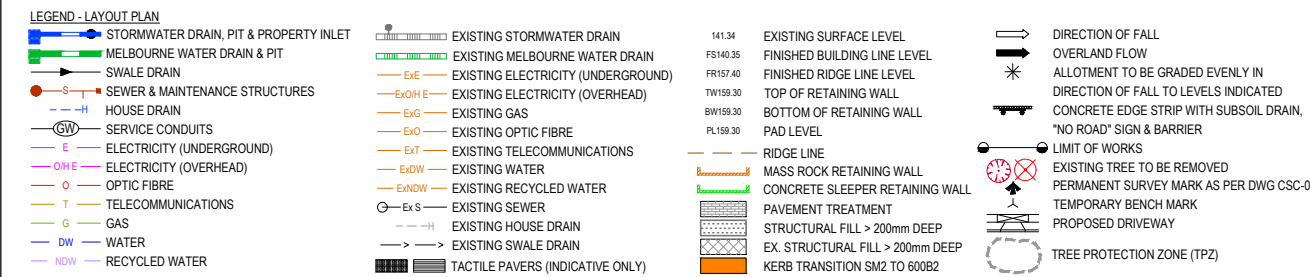
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Project Ref Stage No Drawing No Rev
 1701814 02 010 D





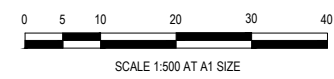
Location	ND - Water		Water		Electricity		Telecommunication		Sewer	
	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)
ANNUAR AVENUE	W	2.30	W	2.80	E	2.40	E	1.80	W	1.00
NATIVE RIDGE	W	2.30	W	2.80	E	2.40	E	1.80	EW	1.01.0
TOPIARY STREET	S	2.30	S	2.80	N	2.40	N	1.80	N/S	1.01.0
PEBBLE ROAD	N	2.30	N	2.80	S	2.40	S	1.80	N/S	1.01.0
OASIS WAY	N	2.30	N	2.80	S	2.40	S	1.80	N	1.0



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E	DRAINAGE PITS 2-13, 2-14, 2-34, & 2-35 UPDATED	18.08.23	CD	CD					
C	GWR ADDED IN OASIS WAY	26.07.23	HW	CD					
B	PITS 2-37 & 2-37A SHIFTED	14.06.23	CD	NM					
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					



Designed: Y.SAVRIMOOTOO
 Date: 22.08.2022
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 1 Glenferrie Road
 Malvern VIC 3144
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Project Details
 10 CANTY LANE, PAKENHAM
 STAGE 2
 CARDINIA SHIRE COUNCIL

Drawing Title
 LAYOUT PLAN
 (SHEET 2 OF 2)

Sheet 08 of 38

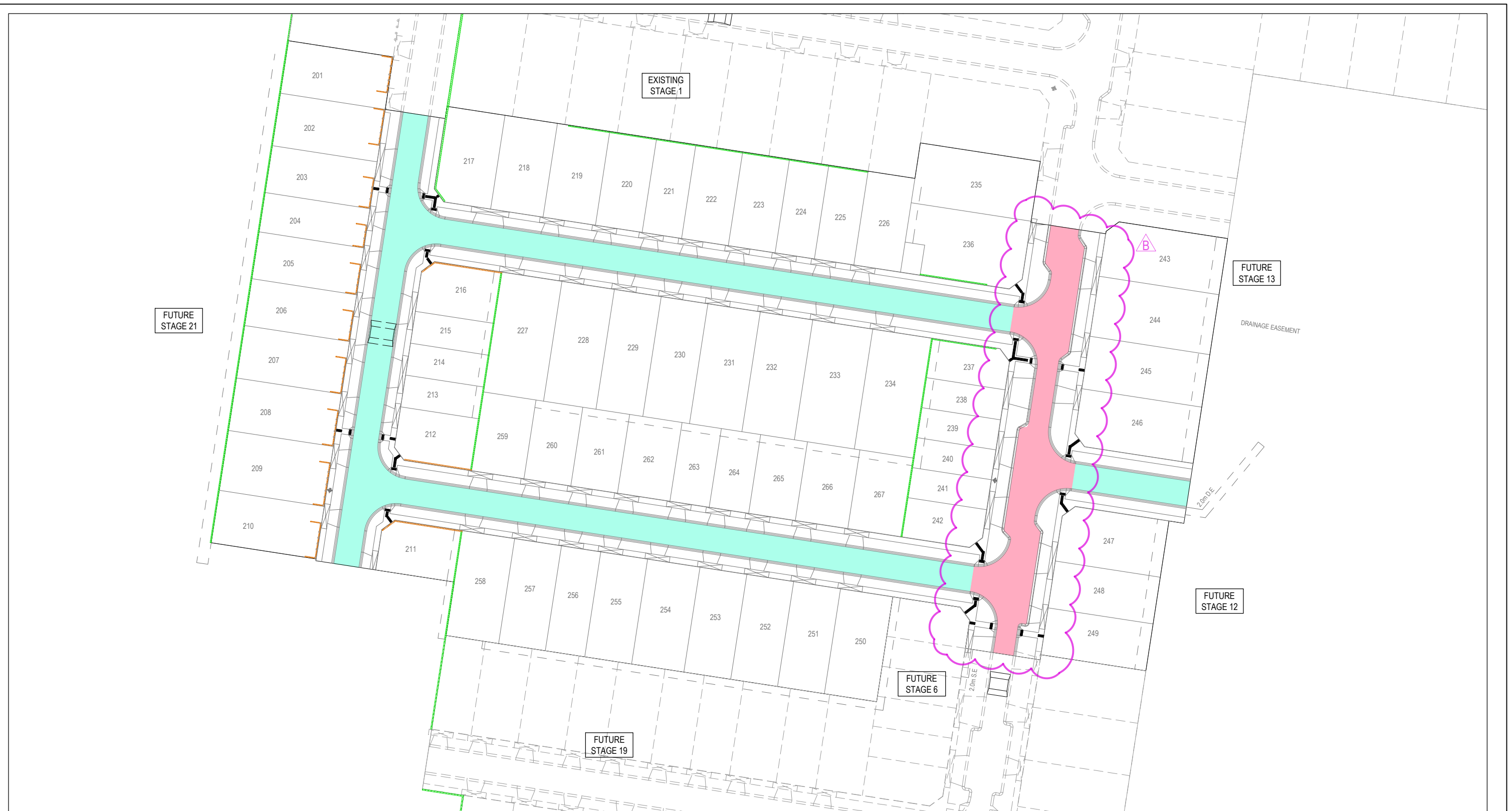
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Project Ref
 1701814

Stage No
 02

Drawing No
 011

Rev
 E

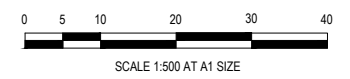


PAVEMENT LEGEND

	TYPE 2 PAVEMENT 650mm
	TYPE 5 PAVEMENT 660mm

FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
B	PAVEMENT REDUCED	21.08.23	CD	NM					
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					



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Project Details
 10 CANTY LANE, PAKENHAM
 STAGE 2
 CARDINIA SHIRE COUNCIL

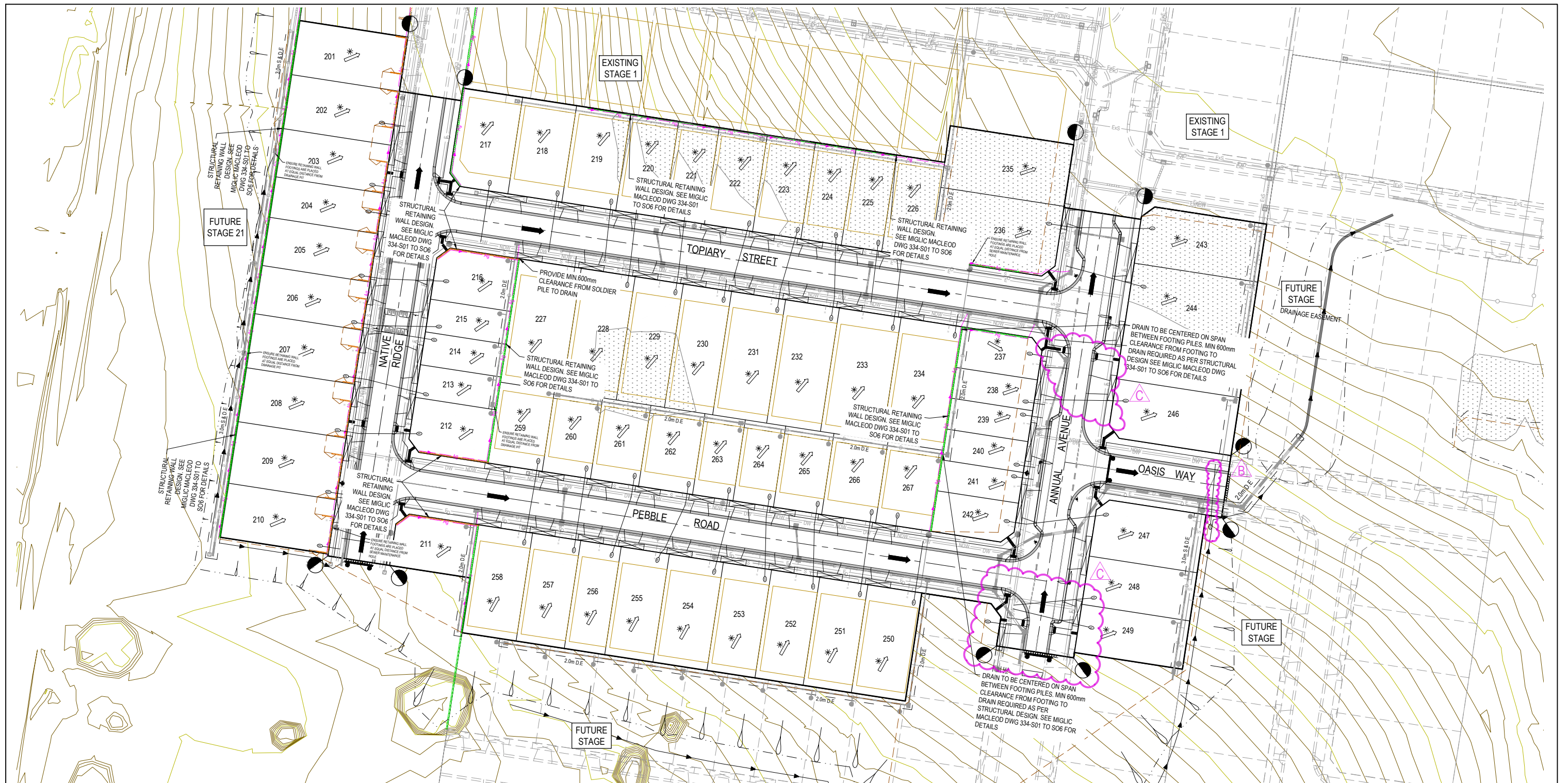
Drawing Title
 PAVEMENT PLAN

Sheet 09 of 38

Scale
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Project Ref: 1701814
 Stage No: 02
 Drawing No: 020
 Rev: B

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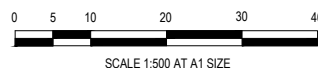
LEGEND - LAYOUT PLAN		EXISTING STORMWATER DRAIN		141.34 EXISTING SURFACE LEVEL		DIRECTION OF FALL	
	STORMWATER DRAIN, PIT & PROPERTY INLET		EXISTING MELBOURNE WATER DRAIN	FS140.35	EXISTING FINISHED BUILDING LINE LEVEL		OVERLAND FLOW
	MELBOURNE WATER DRAIN & PIT		EXISTING ELECTRICITY (UNDERGROUND)	FR157.40	FINISHED RIDGE LINE LEVEL		ALLOTMENT TO BE GRADED EVENLY IN
	SWALE DRAIN		EXISTING ELECTRICITY (OVERHEAD)	TW159.30	TOP OF RETAINING WALL		DIRECTION OF FALL TO LEVELS INDICATED
	AGI DRAINS		EXISTING GAS	BW159.30	BOTTOM OF RETAINING WALL		CONCRETE EDGE STRIP WITH SUBSOIL DRAIN,
	HOUSE DRAIN		EXISTING OPTIC FIBRE	PL159.30	PAD LEVEL		"NO ROAD" SIGN & BARRIER
	SERVICE CONDUITS		EXISTING TELECOMMUNICATIONS		RIDGE LINE		EXISTING TREE TO BE REMOVED
	ELECTRICITY (UNDERGROUND)		EXISTING WATER		MASS ROCK RETAINING WALL		PERMANENT SURVEY MARK AS PER DWG.CSC-004
	ELECTRICITY (OVERHEAD)		EXISTING RECYCLED WATER		CONCRETE SLEEPER RETAINING WALL		TEMPORARY BENCH MARK
	OPTIC FIBRE		EXISTING SEWER		PAVEMENT TREATMENT		PROPOSED DRIVEWAY
	TELECOMMUNICATIONS		EXISTING HOUSE DRAIN		STRUCTURAL FILL > 200mm DEEP		TREE PROTECTION ZONE (TPZ)
	GAS		EXISTING SWALE DRAIN		EX. STRUCTURAL FILL > 200mm DEEP		
	WATER		TACTILE PAVERS (INDICATIVE ONLY)				
	RECYCLED WATER						

NOTE:
ALL WALLS TO BE CONSTRUCTED AS PER STRUCTURAL RETAINING WALL DESIGN. SEE MIGLIC MACLEOD DWG. 331-S01 TO S06 FOR DETAILS

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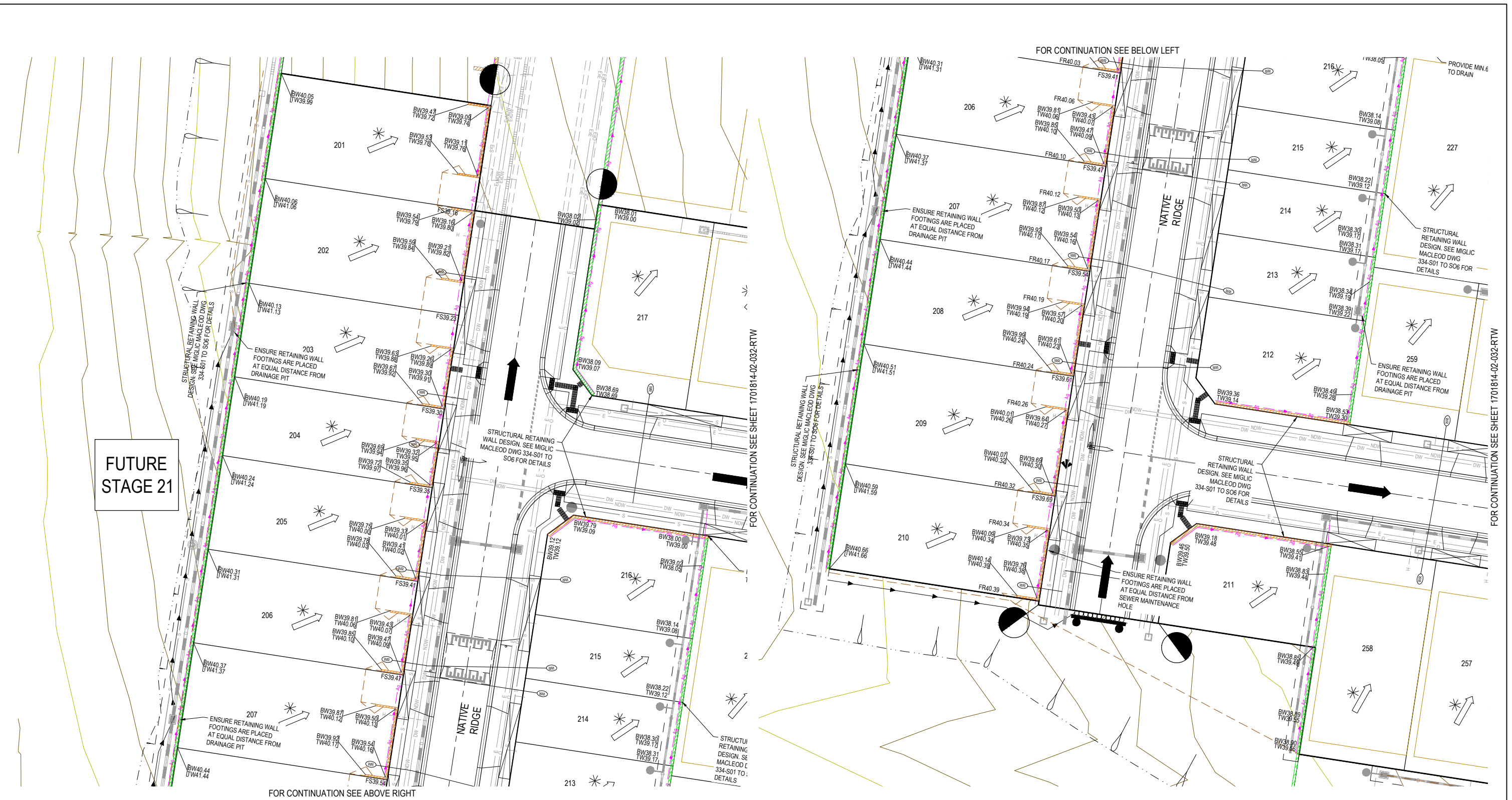
Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL
Drawing Title
RETAINING WALL PLAN
(SHEET 1 OF 3)

Sheet 10 of 38

Scale
1:500 @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	02	030	C





FUTURE STAGE 21

FOR CONTINUATION SEE ABOVE RIGHT

FOR CONTINUATION SEE SHEET 1701814-02-032-RTW

FOR CONTINUATION SEE BELOW LEFT

FOR CONTINUATION SEE SHEET 1701814-02-032-RTW

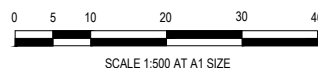
LEGEND - LAYOUT PLAN		EXISTING STORMWATER DRAIN		EXISTING SURFACE LEVEL		DIRECTION OF FALL	
	STORMWATER DRAIN, PIT & PROPERTY INLET		EXISTING STORMWATER DRAIN		EXISTING SURFACE LEVEL		DIRECTION OF FALL
	MELBOURNE WATER DRAIN & PIT		EXISTING MELBOURNE WATER DRAIN		FINISHED BUILDING LINE LEVEL		OVERLAND FLOW
	SWALE DRAIN		EXISTING ELECTRICITY (UNDERGROUND)		FINISHED RIDGE LINE LEVEL		ALLOTMENT TO BE GRADED EVENLY IN
	AGI DRAINS		EXISTING ELECTRICITY (OVERHEAD)		TOP OF RETAINING WALL		DIRECTION OF FALL TO LEVELS INDICATED
	HOUSE DRAIN		EXISTING GAS		BOTTOM OF RETAINING WALL		CONCRETE EDGE STRIP WITH SUBSOIL DRAIN
	SERVICE CONDUITS		EXISTING OPTIC FIBRE		PAD LEVEL		"NO ROAD" SIGN & BARRIER
	ELECTRICITY (UNDERGROUND)		EXISTING OPTIC FIBRE		RIDGE LINE		LIMIT OF WORKS
	ELECTRICITY (OVERHEAD)		EXISTING WATER		MASS ROCK RETAINING WALL		EXISTING TREE TO BE REMOVED
	OPTIC FIBRE		EXISTING RECYCLED WATER		CONCRETE SLEEPER RETAINING WALL		PERMANENT SURVEY MARK AS PER DWG.CSC-004
	TELECOMMUNICATIONS		EXISTING SEWER		PAVEMENT TREATMENT		TEMPORARY BENCH MARK
	GAS		EXISTING HOUSE DRAIN		STRUCTURAL FILL > 200mm DEEP		PROPOSED DRIVEWAY
	WATER		EXISTING SWALE DRAIN		EX. STRUCTURAL FILL > 200mm DEEP		TREE PROTECTION ZONE (TPZ)
	RECYCLED WATER		TACTILE PAVERS (INDICATIVE ONLY)				

NOTE:
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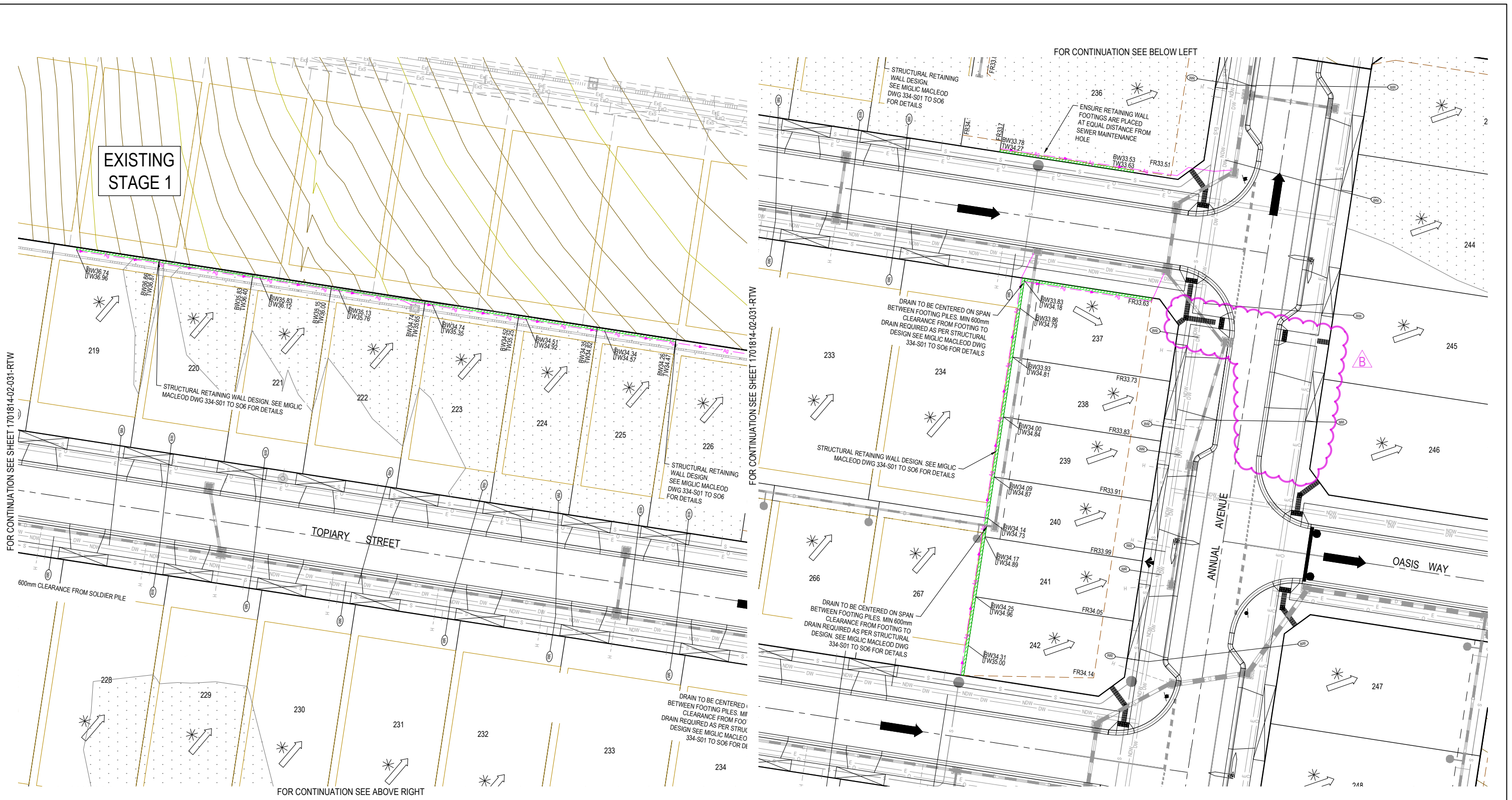
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Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL
Drawing Title
RETAINING WALL PLAN
(SHEET 2 OF 3)

Sheet 11 of 38

Scale
1:500 @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	02	031	A



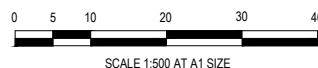
LEGEND - LAYOUT PLAN	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MELBOURNE WATER DRAIN & PIT
	SWALE DRAIN
	AGI DRAINS
	HOUSE DRAIN
	SERVICE CONDUITS
	ELECTRICITY (UNDERGROUND)
	ELECTRICITY (OVERHEAD)
	OPTIC FIBRE
	TELECOMMUNICATIONS
	GAS
	WATER
	RECYCLED WATER
	EXISTING STORMWATER DRAIN
	EXISTING MELBOURNE WATER DRAIN
	EXISTING ELECTRICITY (UNDERGROUND)
	EXISTING ELECTRICITY (OVERHEAD)
	EXISTING GAS
	EXISTING OPTIC FIBRE
	EXISTING TELECOMMUNICATIONS
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING SEWER
	EXISTING HOUSE DRAIN
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	141.34 EXISTING SURFACE LEVEL
	FS140.35 FINISHED BUILDING LINE LEVEL
	FR157.40 FINISHED RIDGE LINE LEVEL
	TW159.30 TOP OF RETAINING WALL
	BW159.30 BOTTOM OF RETAINING WALL
	PL159.30 PAD LEVEL
	RIDGE LINE
	MASS ROCK RETAINING WALL
	CONCRETE SLEEPER RETAINING WALL
	PAVEMENT TREATMENT
	STRUCTURAL FILL > 200mm DEEP
	EX. STRUCTURAL FILL > 200mm DEEP
	DIRECTION OF FALL
	OVERLAND FLOW
	ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED
	CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	LIMIT OF WORKS
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK AS PER DWG.CSC-004
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY
	TREE PROTECTION ZONE (TPZ)

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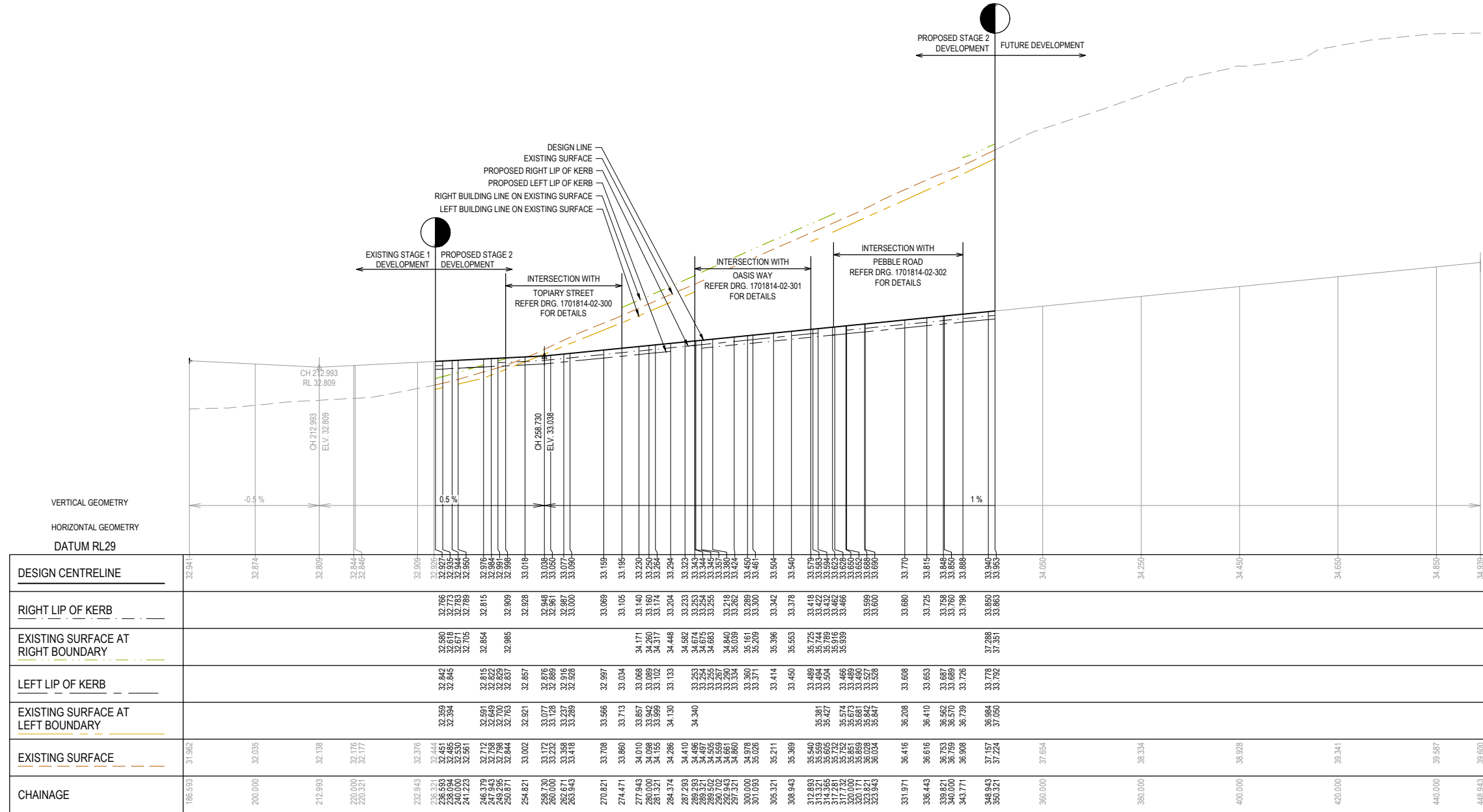
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STAGE 2
CARDINIA SHIRE COUNCIL

Drawing Title
RETAINING WALL PLAN
(SHEET 3 OF 3)

Sheet 12 of 38
Scale 1:500 @ A1
Project Ref 1701814
Stage No 02
Drawing No 032
Rev B

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

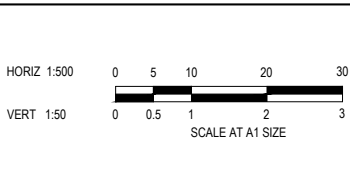


ANNUAL AVENUE - LONGITUDINAL SECTION

FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					

DATE	DRN.	APP.
01.06.23	CD	NM



Designed: Y.SAVRIMOOTOO
 Date: 22.08.2022
 Drawn: M.F.JAURIGUE
 Checked: N.MARTENS
 Date: 30.11.22
 Approved: N.MARTENS
 Reg. No.: PS0008273
 Date: 01.10.2022
 PS Number: PS908410U

BW Beveridge Williams
 Development & Infrastructure Consultants
 1 Glenferrie Road Malvern VIC 3144
 ph: 03 9524 8888
 www.beveridgewilliams.com.au

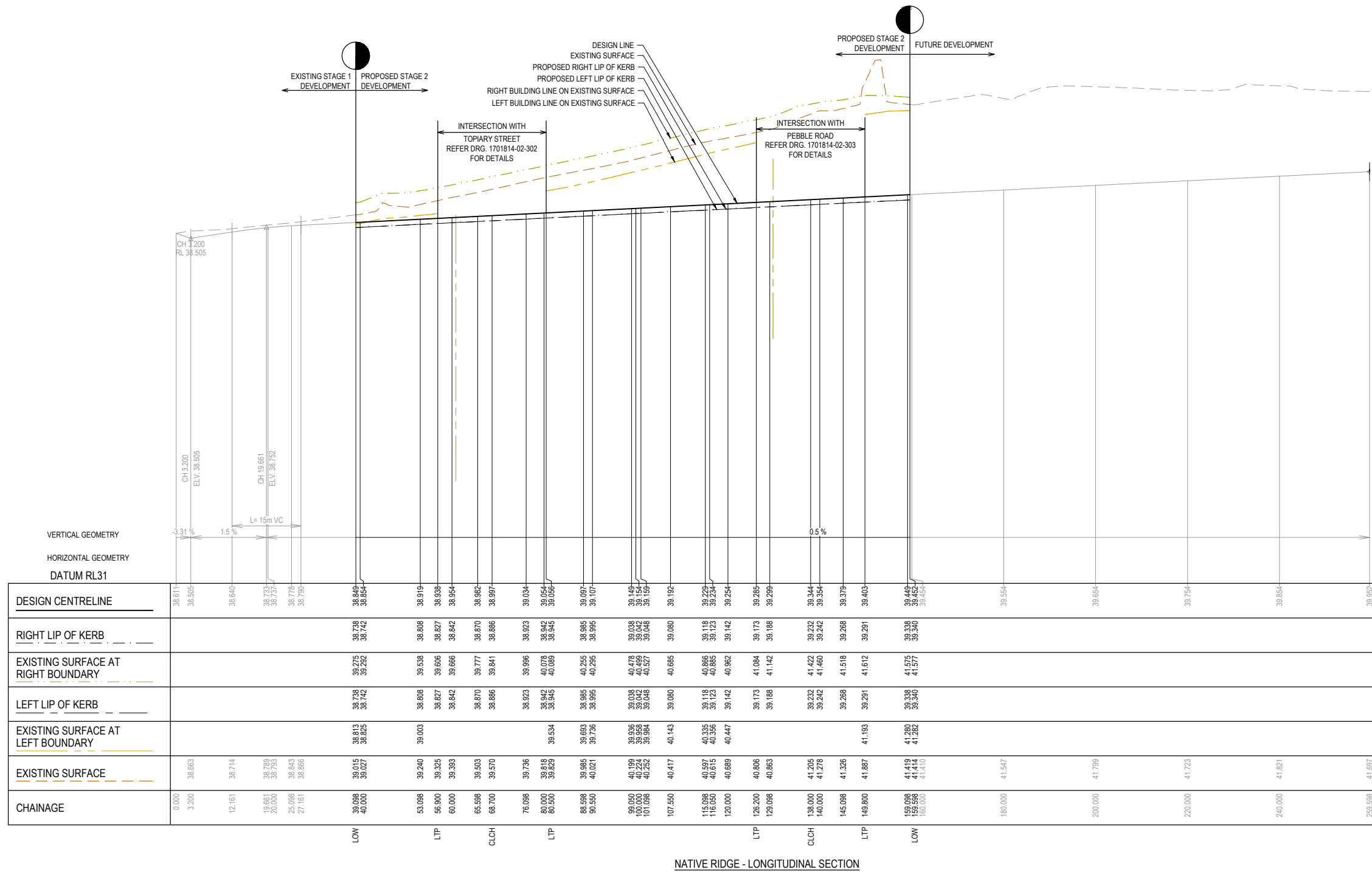
Project Details
 10 CANTY LANE, PAKENHAM
 STAGE 2
 CARDINIA SHIRE COUNCIL

Project Ref: 1701814
 Stage No: 02
 Drawing No: 100
 Rev: A

Sheet 13 of 38
 Scale 1:500 H 1:50 V @ A1

K:\Jobs Data\1701814 - 10 Canty Lane, Pakenham_Eng\Stage 2\Drawings\1701814-02-100-RLS.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

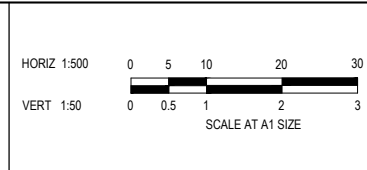


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DESIGN CENTRELINE	38.611	38.505	38.640	38.773	38.737	38.779	38.790	38.849	38.854	38.919	38.938	38.954	38.962	38.997	39.034	39.054	39.056	39.097	39.107	39.149	39.154	39.159	39.192	39.229	39.234	39.254	39.265	39.299	39.344	39.354	39.379	39.403	39.449	39.454	39.554	39.654	39.754	39.854	39.952								
RIGHT LIP OF KERB								38.738	38.742	38.808	38.827	38.842	38.870	38.886	38.923	38.942	38.945	38.985	38.995	39.032	39.042	39.048	39.080	39.118	39.123	39.142	39.173	39.188	39.232	39.242	39.268	39.291	39.338	39.340													
EXISTING SURFACE AT RIGHT BOUNDARY								39.275	39.292	39.539	39.606	39.666	39.777	39.841	39.896	40.078	40.089	40.255	40.295	40.478	40.489	40.527	40.685	40.686	40.723	40.862	41.064	41.142	41.422	41.460	41.518	41.612	41.575	41.577													
LEFT LIP OF KERB								38.338	38.342	38.808	38.827	38.842	38.870	38.886	38.923	38.942	38.945	38.985	38.995	39.032	39.042	39.048	39.080	39.118	39.123	39.142	39.173	39.188	39.232	39.242	39.268	39.291	39.338	39.340													
EXISTING SURFACE AT LEFT BOUNDARY								38.813	38.825	39.003	39.025	39.033	39.503	39.570	39.736	39.534			39.693	39.736	39.958	39.964	40.143	40.335	40.336	40.447			39.232	39.242	39.268	41.193	41.290	41.282													
EXISTING SURFACE		38.663	38.714	38.769	38.783	38.843	38.866	39.015	39.027	39.240	39.325	39.333	39.503	39.570	39.736	39.818	39.829	39.895	40.021	40.149	40.224	40.252	40.417	40.597	40.619	40.689	40.806	40.863	41.205	41.278	41.326	41.887	41.419	41.414	41.547		41.799	41.723	41.821	41.897							
CHAINAGE	0.000	3.200	12.161	19.661	20.000	25.099	27.161	39.098	40.000	53.098	56.900	60.000	65.599	68.700	76.098	80.000	80.500	86.598	90.550	99.050	100.000	101.098	107.550	115.098	116.550	120.000	126.200	129.098	138.000	140.000	145.098	149.800	159.098	160.000	180.000	200.000	220.000	240.000	259.598								
								LOW																																							

NATIVE RIDGE - LONGITUDINAL SECTION

FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					



Designed Y.SAVRIMOOTOO
Date 22.08.2022
Drawn M.F.JAURIGUE
Checked N.MARTENS
Date 30.11.22
Approved N.MARTENS
Reg. No. PE0009272
Date 01.10.2022
PS Number PS908410U

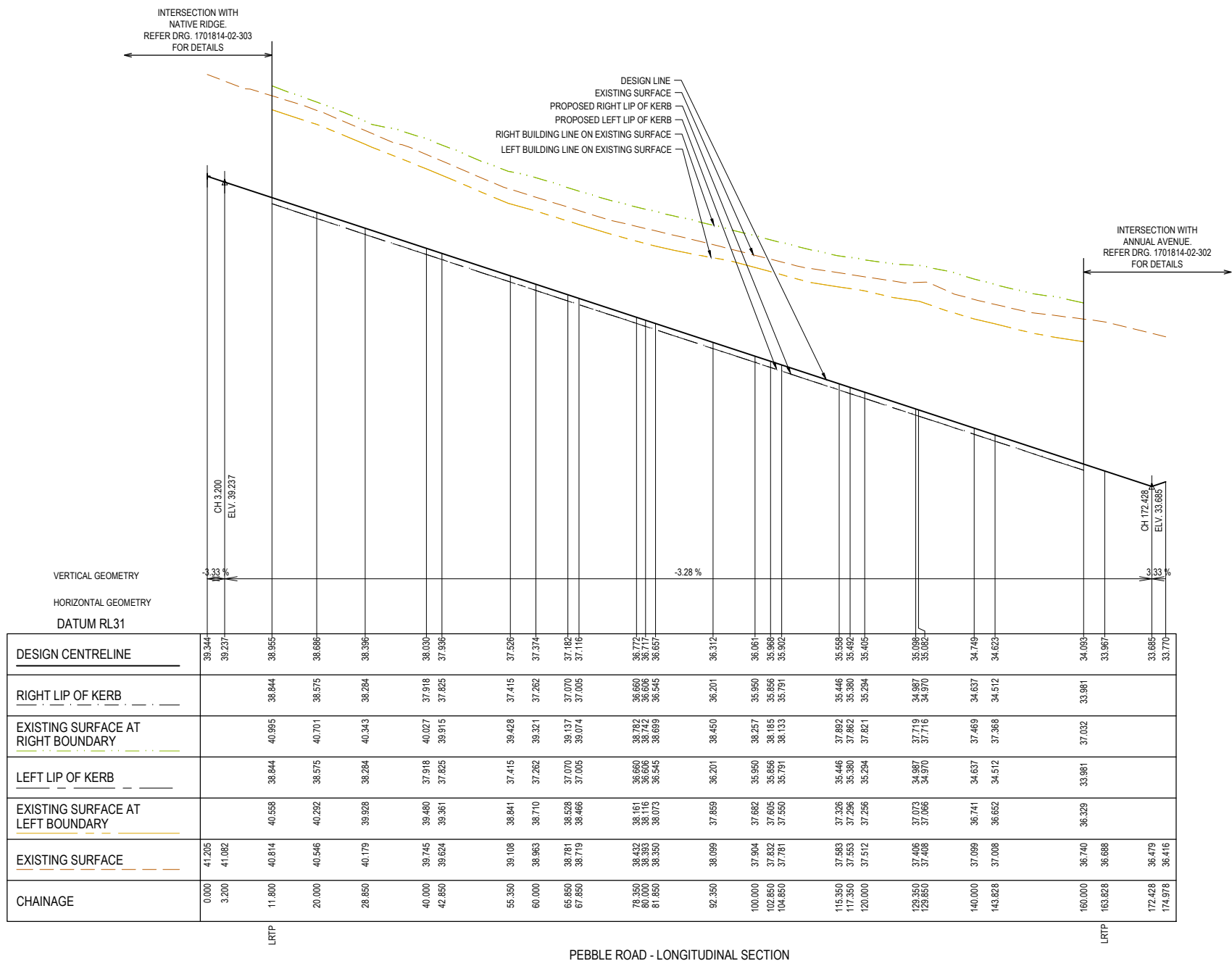
BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8688
www.beveridgewilliams.com.au

Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL

Drawing Title
ROAD LONGITUDINAL SECTIONS
NATIVE RIDGE

Sheet	14 of 38
Scale	1:500 H 1:50 V @ A1
Project Ref	1701814
Stage No	02
Drawing No	101
Rev	A

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

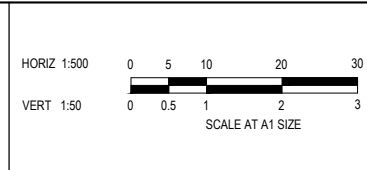


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DESIGN CENTRELINE	39.344	39.237	38.955	38.686	38.396	38.030	37.936	37.526	37.374	37.182	37.116	36.772	36.660	36.657	36.312	36.061	35.968	35.902	35.558	35.446	35.390	35.405	35.098	35.082	34.749	34.623	34.093	33.967	33.665	33.770
RIGHT LIP OF KERB			38.844	38.575	38.284	37.918	37.825	37.415	37.262	37.070	37.005	36.660	36.606	36.545	36.201	35.950	35.856	35.791	35.446	35.334	35.294	35.300	34.987	34.970	34.637	34.512	33.981			
EXISTING SURFACE AT RIGHT BOUNDARY			40.995	40.701	40.343	40.027	39.915	39.428	39.321	39.137	39.074	38.682	38.642	38.589	38.245	38.257	38.165	38.133	37.882	37.862	37.821	37.821	37.718	37.718	37.469	37.368	37.032			
LEFT LIP OF KERB			38.844	38.575	38.284	37.918	37.825	37.415	37.262	37.070	37.005	36.660	36.606	36.545	36.201	35.950	35.856	35.791	35.446	35.334	35.294	35.300	34.987	34.970	34.637	34.512	33.981			
EXISTING SURFACE AT LEFT BOUNDARY			40.558	40.292	39.928	39.480	39.361	38.841	38.710	38.528	38.466	38.161	38.116	38.073	37.699	37.662	37.605	37.550	37.326	37.296	37.256	37.256	37.073	37.068	36.741	36.652	36.329			
EXISTING SURFACE	41.205	41.082	40.814	40.546	40.179	39.745	39.624	39.108	38.963	38.781	38.719	38.432	38.383	38.350	38.099	37.904	37.832	37.781	37.583	37.553	37.512	37.265	37.205	37.168	37.069	37.008	36.740	36.688	36.479	36.416
CHAINAGE	0.000	3.200	11.800	20.000	28.850	40.000	42.850	55.350	60.000	65.850	67.850	78.350	80.000	81.850	92.350	100.000	102.850	104.850	115.350	117.350	120.000	123.850	125.850	140.000	143.828	160.000	163.828	172.428	174.978	

PEBBLE ROAD - LONGITUDINAL SECTION

FOR CONSTRUCTION

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A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					



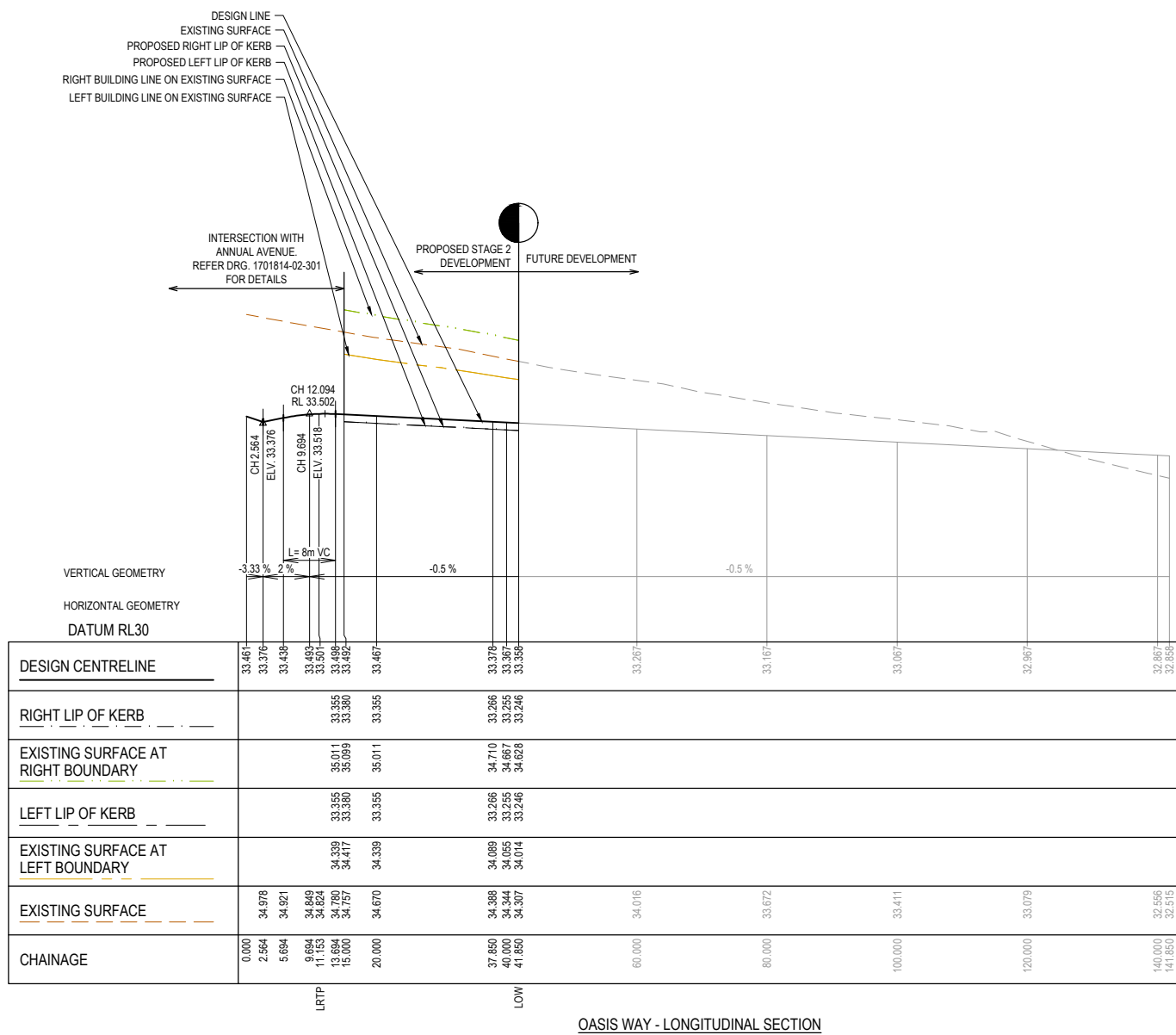
Designed Y.SAVRIMOOTOO
Date 22.08.2022
Drawn M.F. JAURIGUE
Checked N.MARTENS
Date 30.11.22
Approved N.MARTENS
Reg. No. PE0009272
Date 01.10.2022
PS Number PS908410U

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details	10 CANTY LANE, PAKENHAM STAGE 2 CARDINIA SHIRE COUNCIL
Drawing Title	ROAD LONGITUDINAL SECTIONS PEBBLE ROAD

Sheet	16 of 38
Scale	1:500 H 1:50 V @ A1
Project Ref	1701814
Stage No	02
Drawing No	103
Rev	A

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

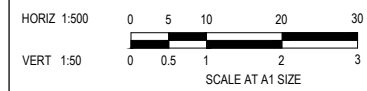


OASIS WAY - LONGITUDINAL SECTION

FOR CONSTRUCTION

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REV	DESCRIPTION	DATE	DRN	APP.	REV	DESCRIPTION	DATE	DRN	APP.
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					



Designed Y.SAVRIMOOTOO
Date 22.08.2022
Drawn M.F.JAURIGUE
Checked N.MARTENS
Date 30.11.22
Approved N.MARTENS
Reg. No. PE0009272
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PS Number PS908410U

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

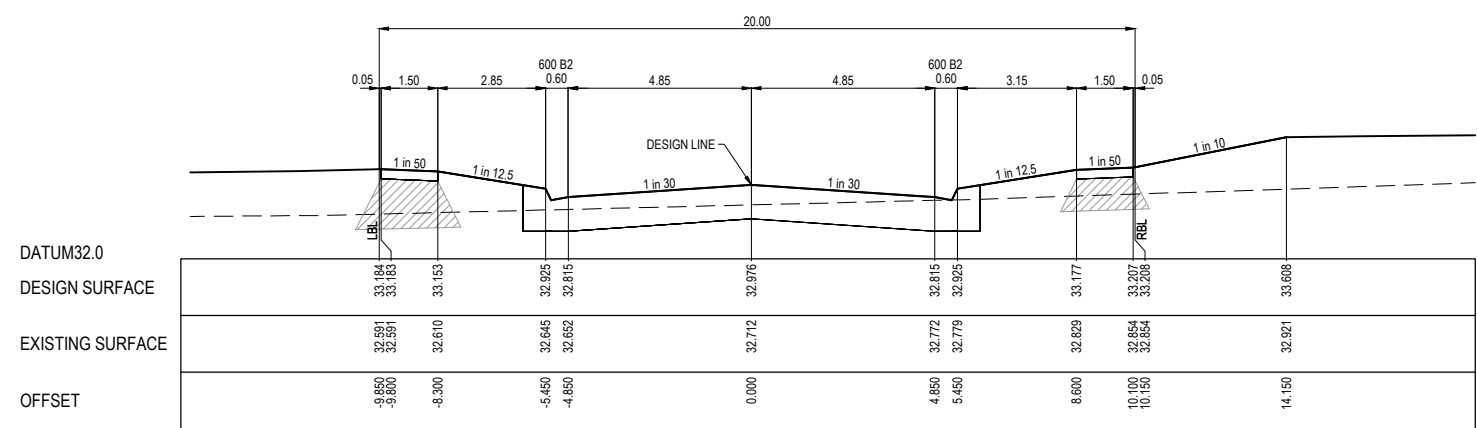
Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL
Drawing Title
ROAD LONGITUDINAL SECTIONS
OASIS WAY

Sheet	17 of 38
Scale	1:500 H 1:50 V @ A1
Project Ref	1701814
Stage No	02
Drawing No	104
Rev	A

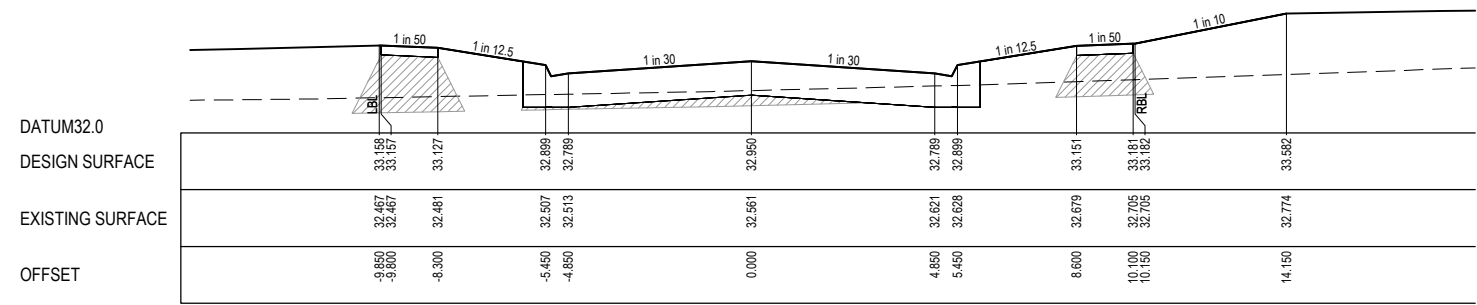
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

LEGEND

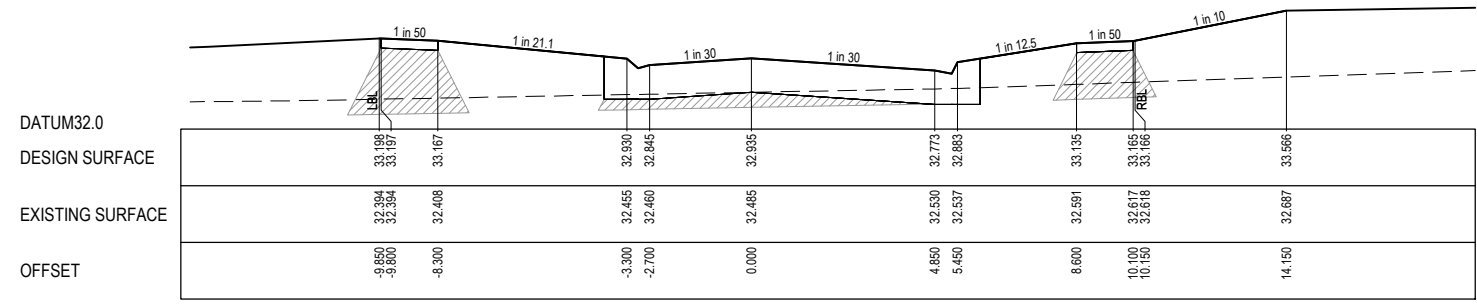
- EXISTING SURFACE
- DESIGN SURFACE
- ▨ STRUCTURAL FILL



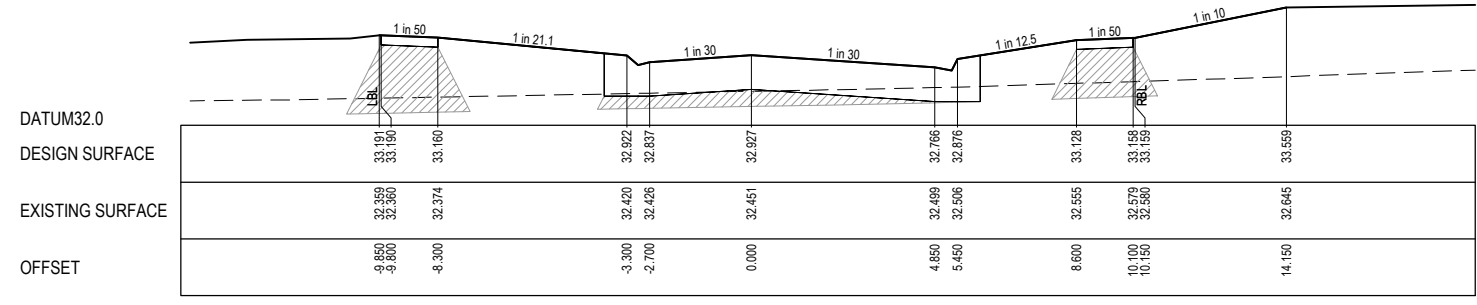
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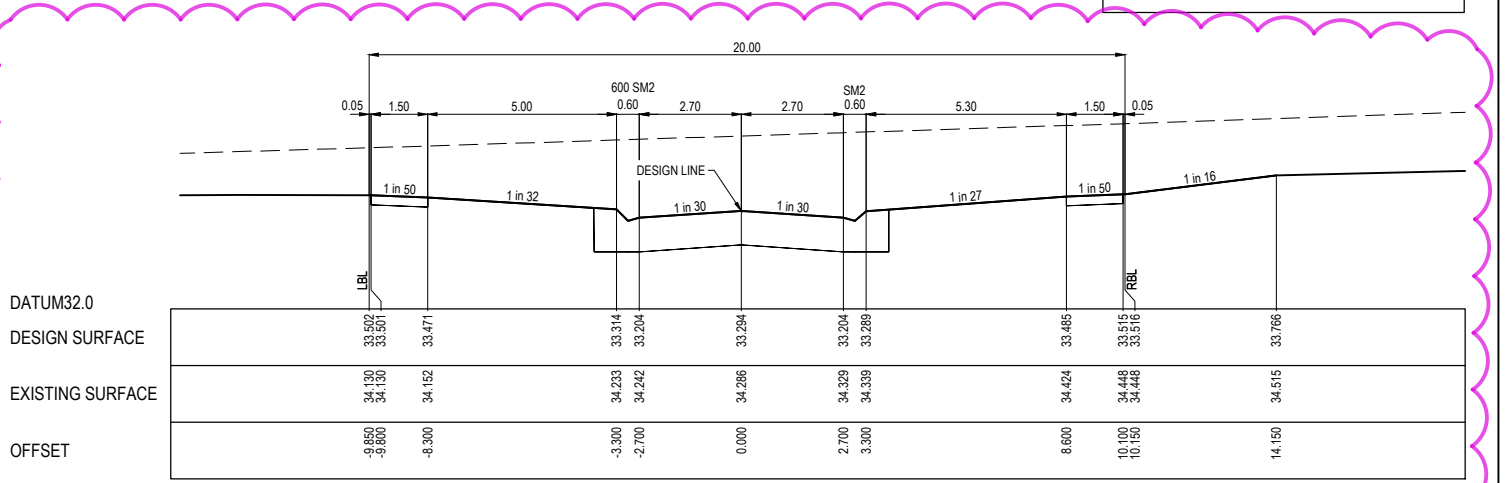
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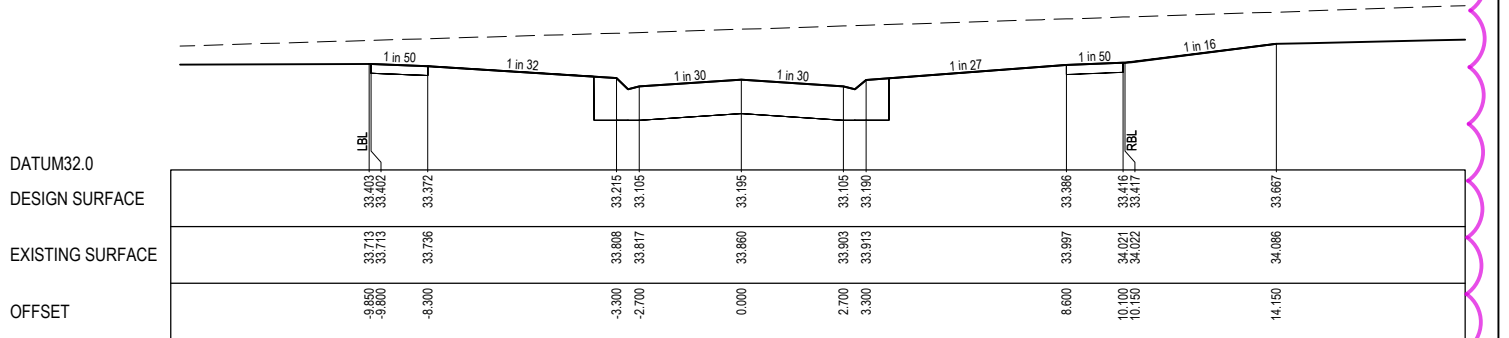
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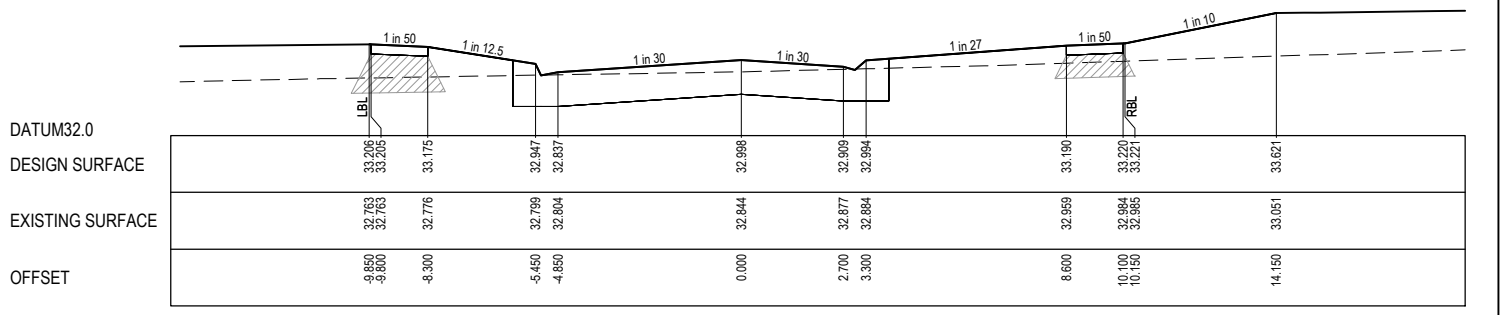
CH 236.593
(LIMIT OF STAGE 2 WORKS)



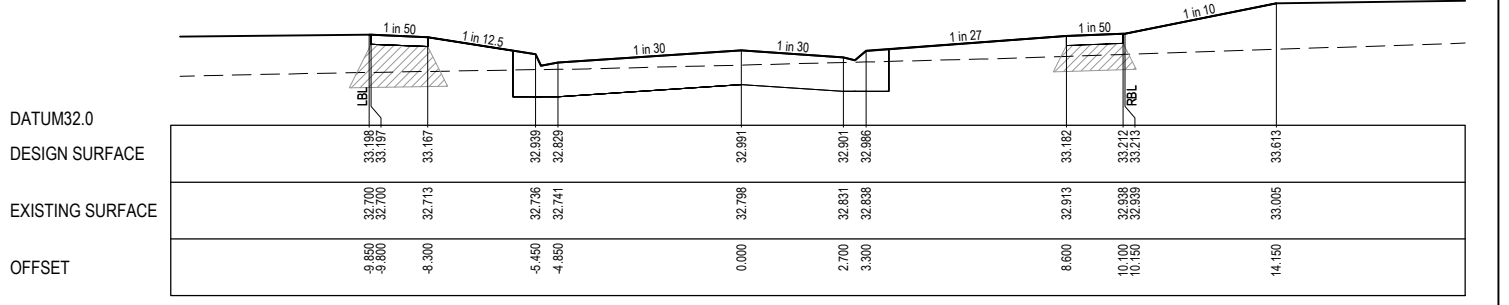
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RTPCH 274.472



RTPCH 250.871



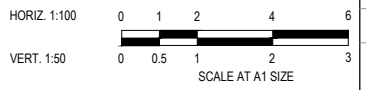
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ANNUAL AVENUE - ROAD CROSS SECTIONS

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
B	PARKING BAY REDUCED	21.08.23	CD	NM					
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					



Designed: Y.SAVRIMOOTOO
Date: 22.08.2022
Drawn: M.F. JAURIGUE
Checked: N.MARTENS
Date: 30.11.22
Approved: N.MARTENS
Reg. No: PS0008272
Date: 01.10.2022
PS Number: PS908410U

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL

Drawing Title
ROAD CROSS SECTIONS
ANNUAL AVENUE
(SHEET 1 OF 3)

Sheet 18 of 38
Scale
1:100 H 1:50 V @ A1

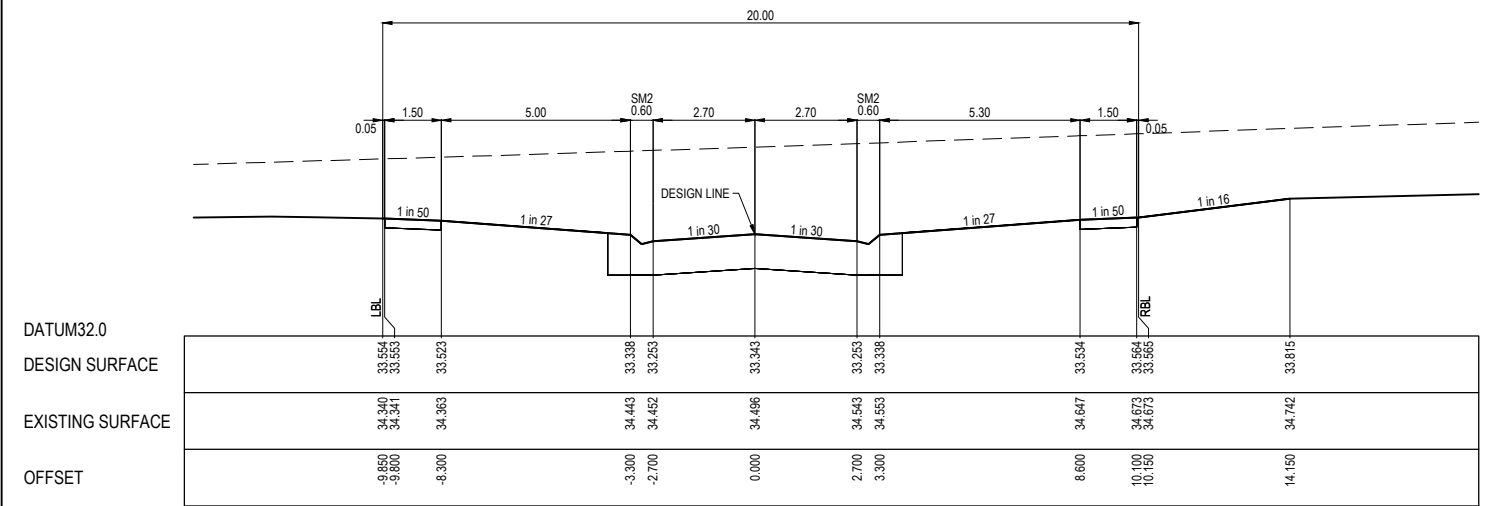
Project Ref: 1701814
Stage No: 02
Drawing No: 200
Rev: B

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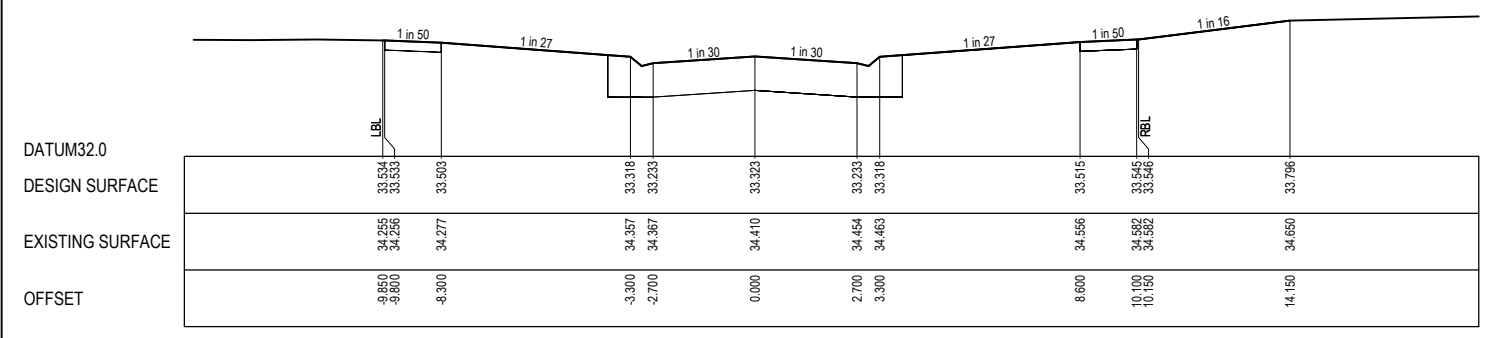
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

LEGEND

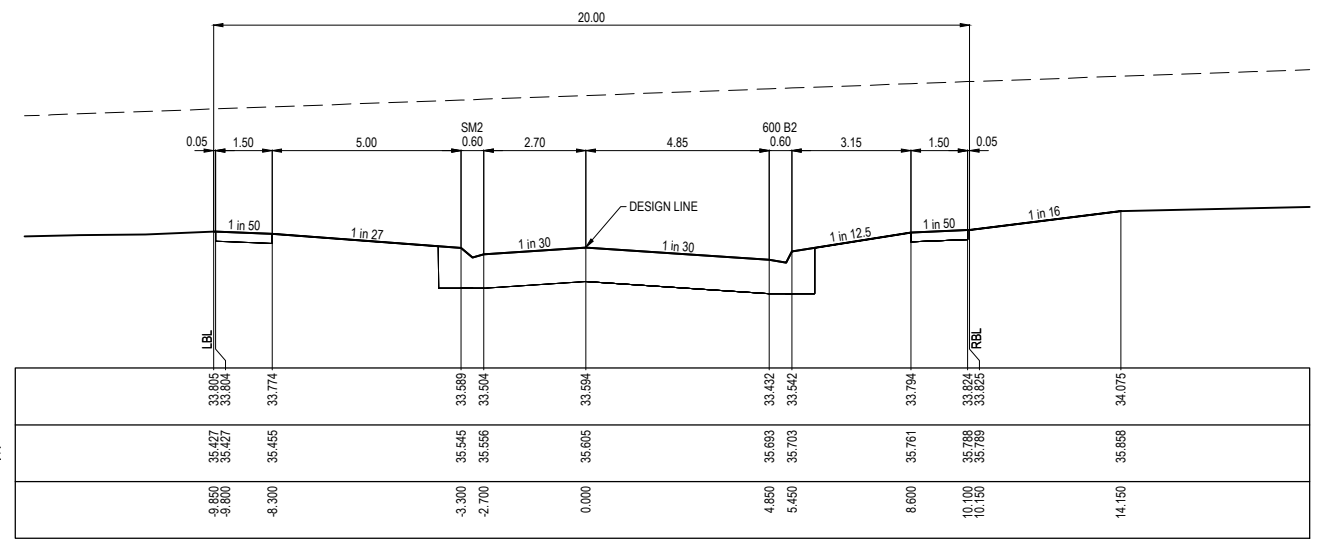
- EXISTING SURFACE
- DESIGN SURFACE
- ▨ STRUCTURAL FILL



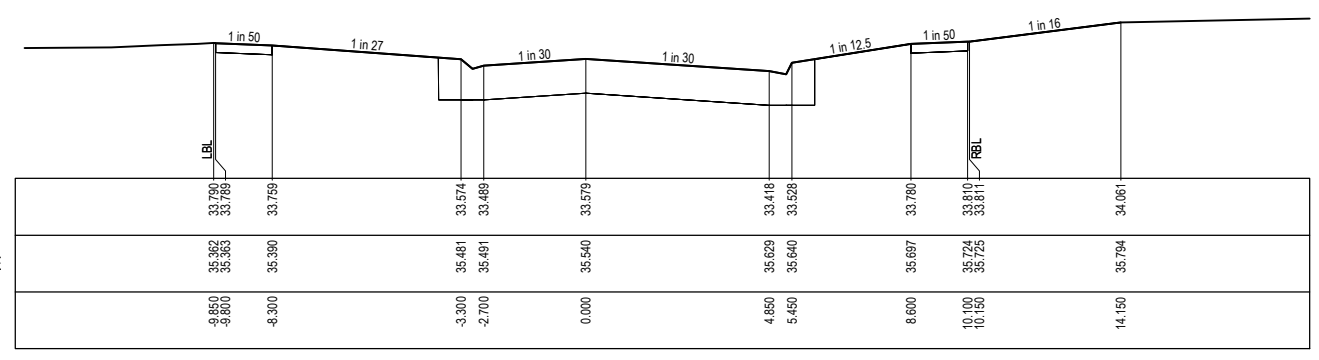
LTPCH 289.293



LTPCH 287.293



LTPCH 314.365



LTPCH 312.893

ANNUAL AVENUE - ROAD CROSS SECTIONS

FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					

HORIZ. 1:100
VERT. 1:50

SCALE AT A1 SIZE

Designed Y.SAVRIMOOTOO
Date 22.08.2022
Drawn M.F.JAURIGUE
Checked N.MARTENS
Date 30.11.22
Approved N.MARTENS
Reg. No. PE0009272
Date 01.10.2022
PS Number PS908410U

Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
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www.beveridgewilliams.com.au

Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL

Drawing Title
ROAD CROSS SECTIONS
ANNUAL AVENUE
(SHEET 2 OF 3)

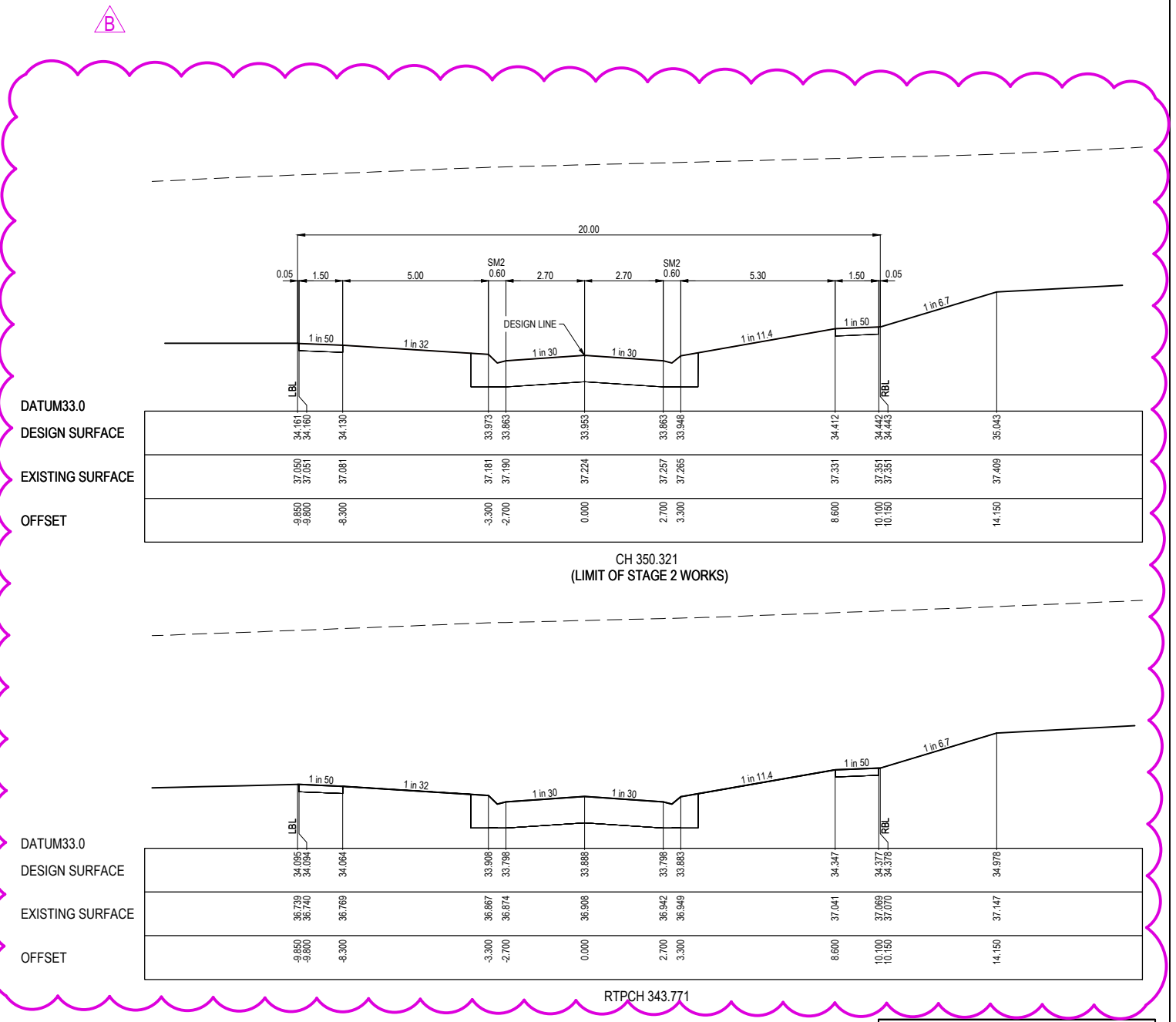
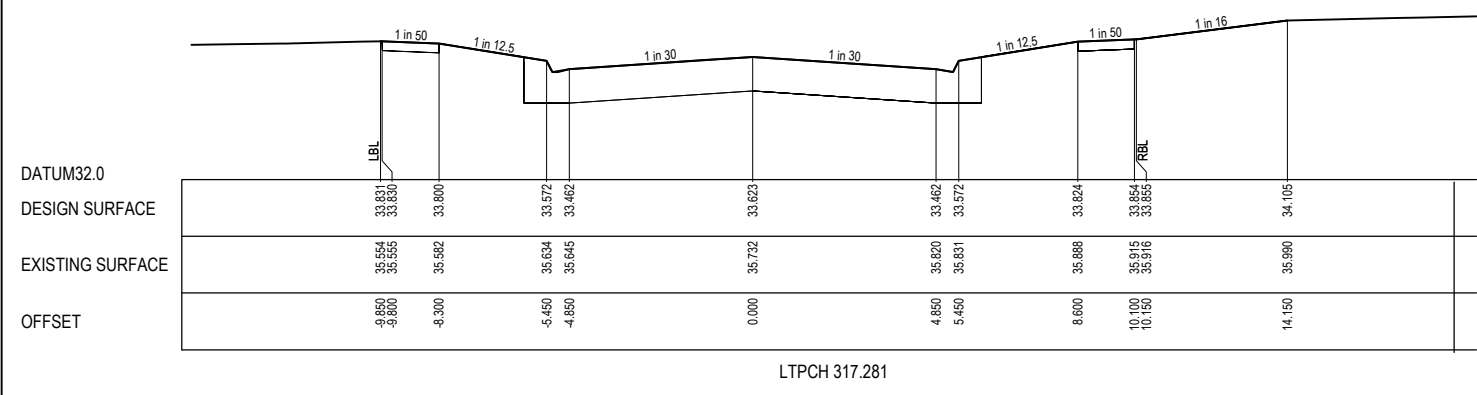
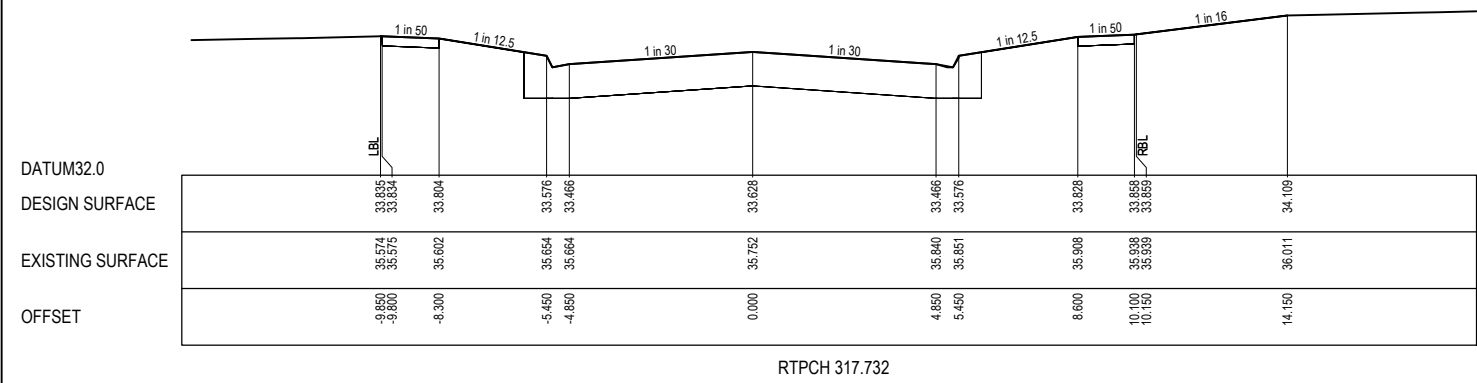
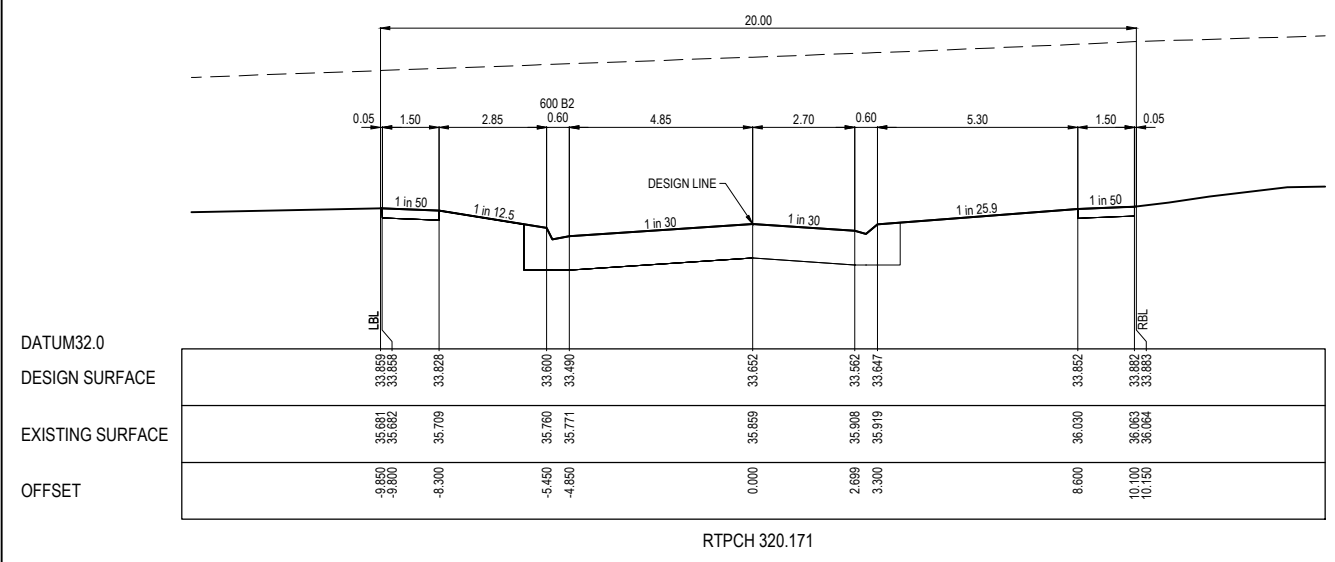
Sheet 19 of 38
Scale 1:100 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	02	201	A

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

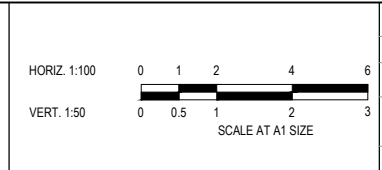
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	STRUCTURAL FILL



ANNUAL AVENUE - ROAD CROSS SECTIONS

FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
B	PARKING BAY REDUCED	21.08.23	CD	NM					
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					



Designed Y.SAVRIMOOTOO
Date 22.08.2022
Drawn M.F. JAURIGUE
Checked N.MARTENS
Date 30.11.22
Approved N.MARTENS
Reg. No. PE0009272
Date 01.10.2022
PS Number PS908410U

BW Beveridge Williams
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Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL

Drawing Title
ROAD CROSS SECTIONS
ANNUAL AVENUE
(SHEET 3 OF 3)

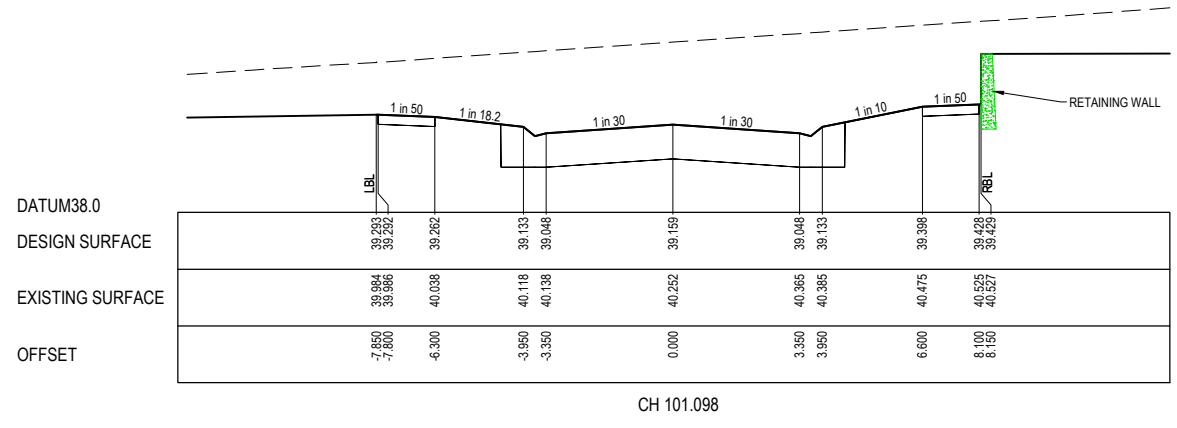
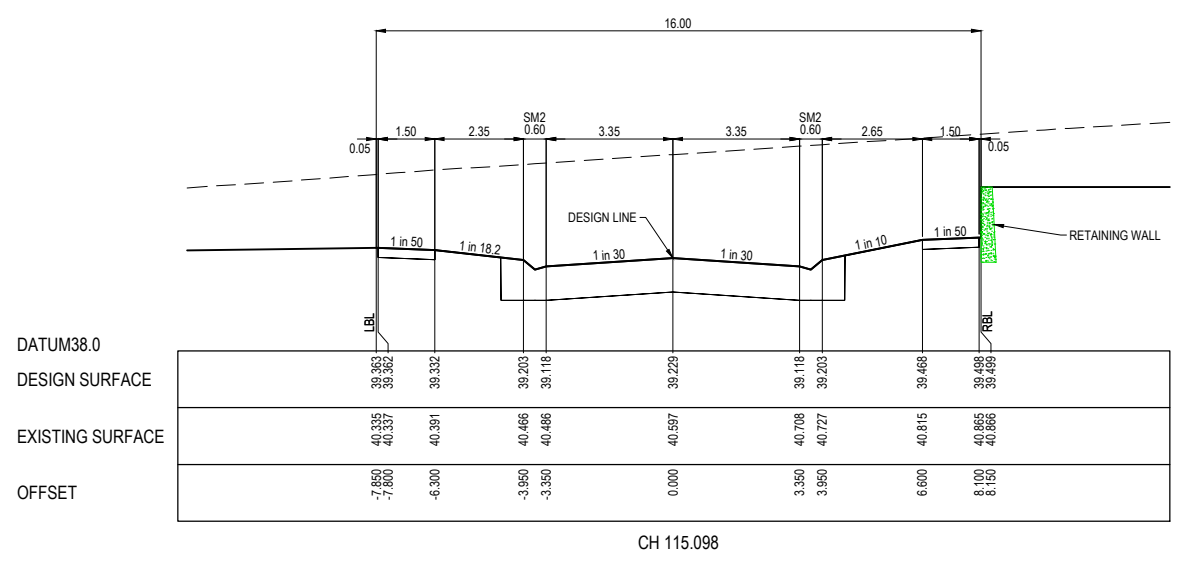
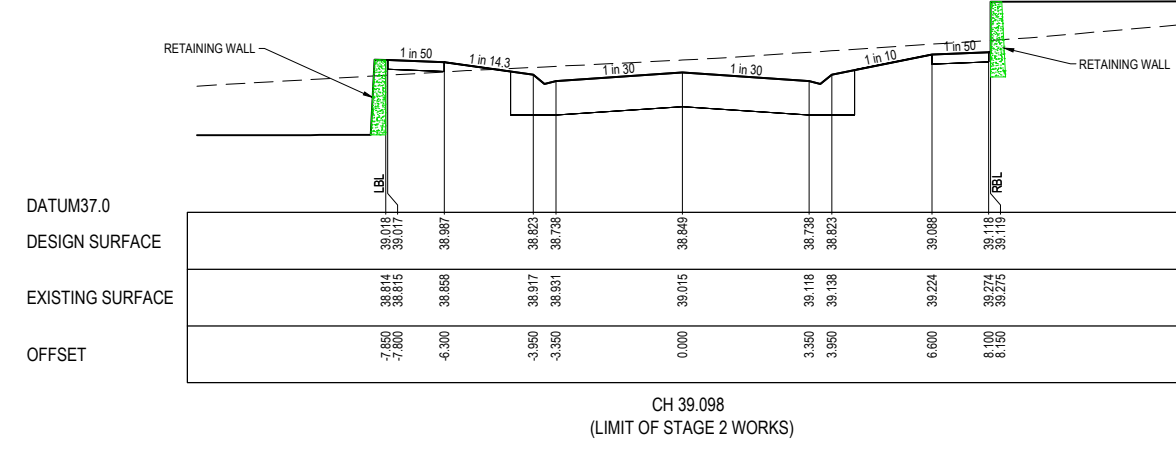
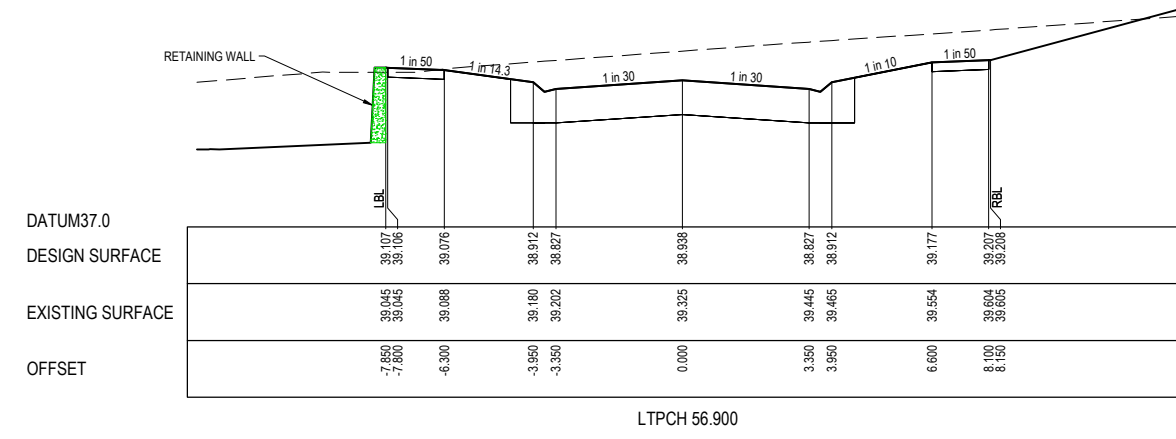
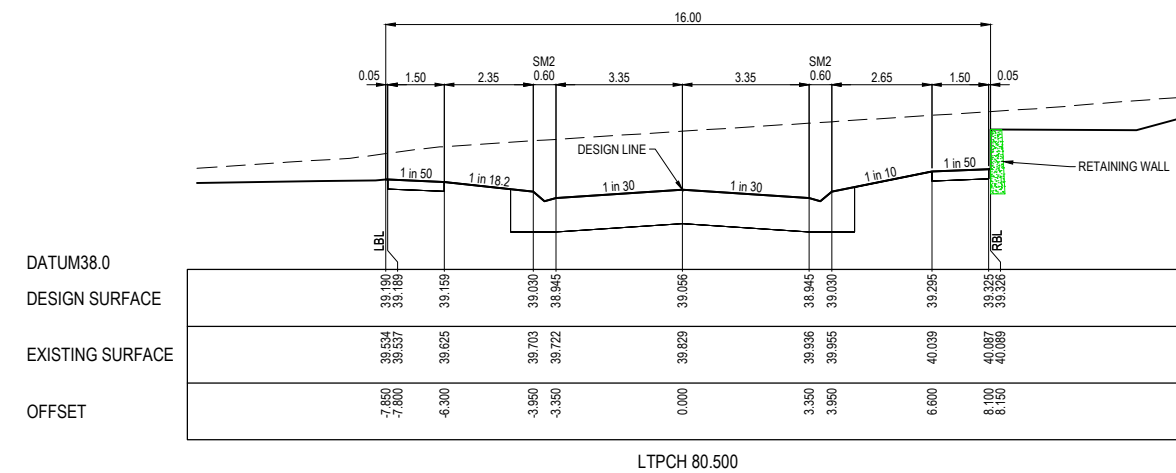
Sheet	20 of 38
Scale	1:100 H 1:50 V @ A1
Project Ref	1701814
Stage No	02
Drawing No	202
Rev	B

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

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- ▨ STRUCTURAL FILL

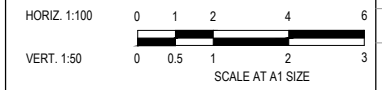


NATIVE RIDGE - ROAD CROSS SECTIONS

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					



Designed: Y.SAVRIMOOTOO
Date: 22.08.2022
Drawn: M.F. JAURIGUIE
Checked: N.MARTENS
Date: 30.11.22
Approved: N.MARTENS
Reg. No.: PS0008272
Date: 01.10.2022
PS Number: PS008410U

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL


Drawing Title
ROAD CROSS SECTIONS
NATIVE RIDGE
(SHEET 1 OF 2)

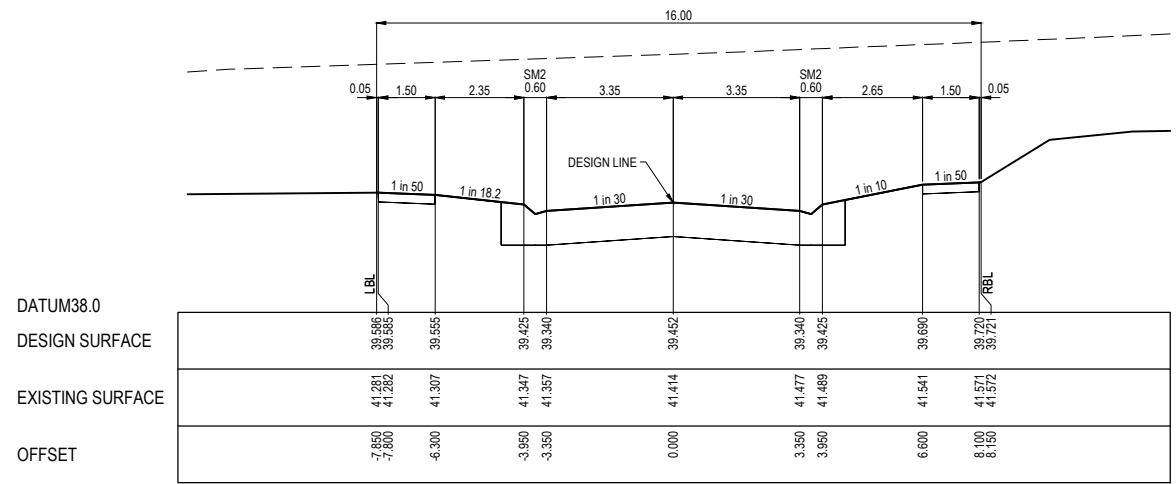
Sheet 21 of 38
Scale
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Project Ref: 1701814
Stage No: 02
Drawing No: 203
Rev: A

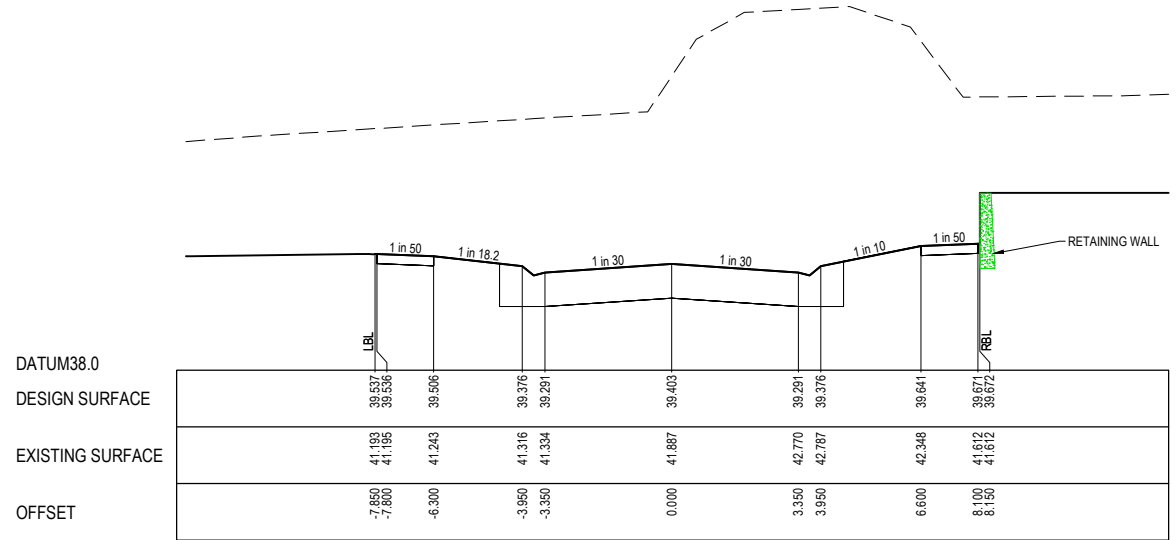
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STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

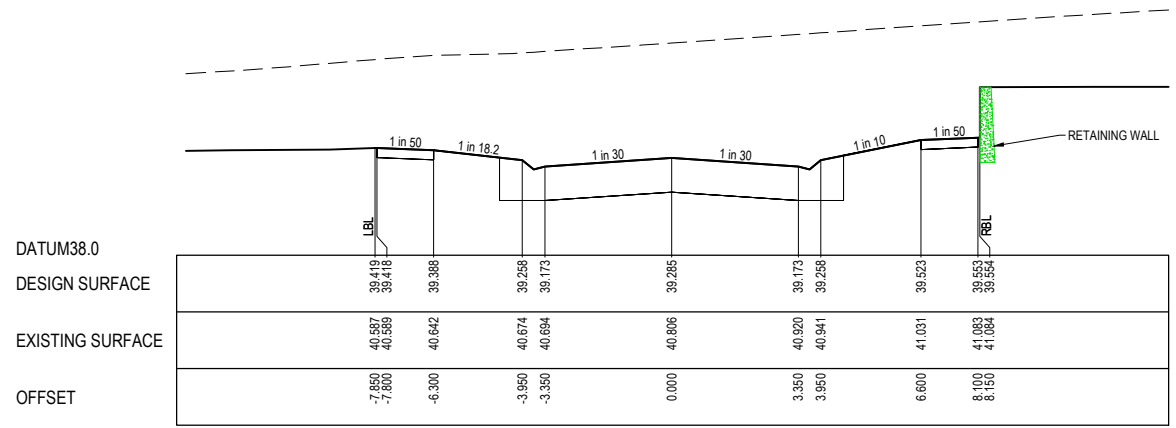
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---	EXISTING SURFACE
—	DESIGN SURFACE
	STRUCTURAL FILL



CH 159.598
(LIMIT OF STAGE 2 WORKS)



LTPCH 149.800

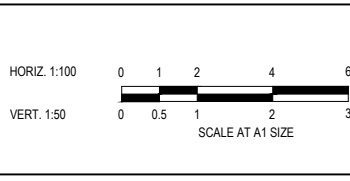


LTPCH 126.200

NATIVE RIDGE - ROAD CROSS SECTIONS

FOR CONSTRUCTION

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Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL

Drawing Title
ROAD CROSS SECTIONS
NATIVE RIDGE
(SHEET 2 OF 2)

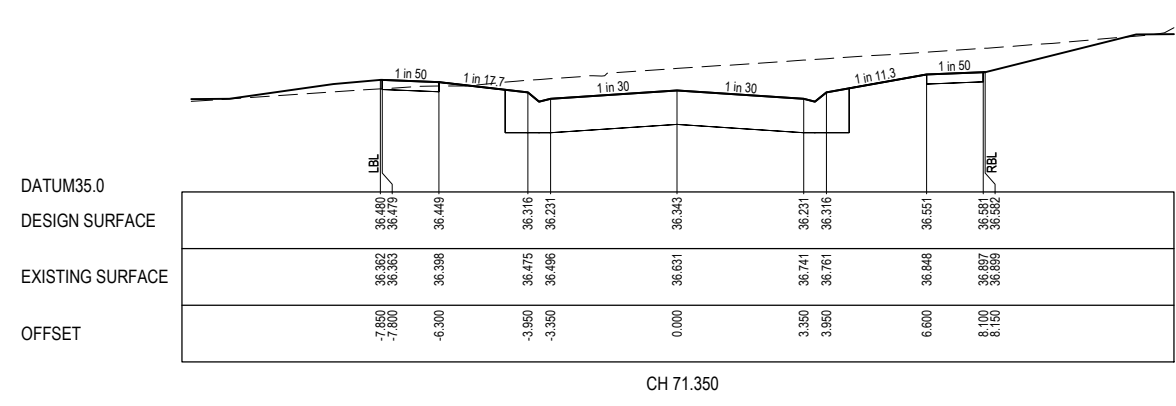
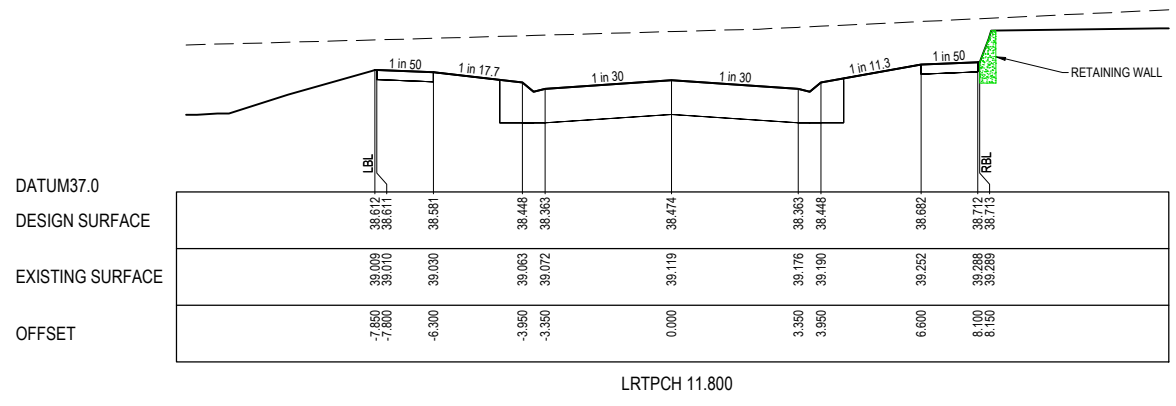
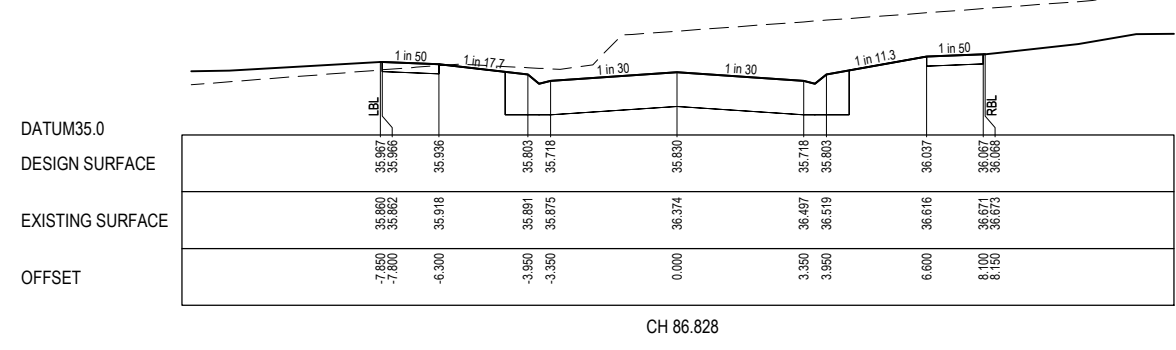
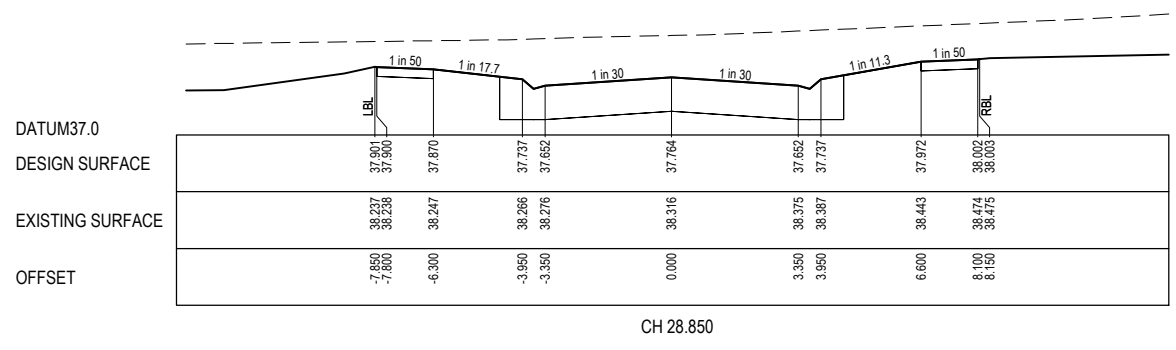
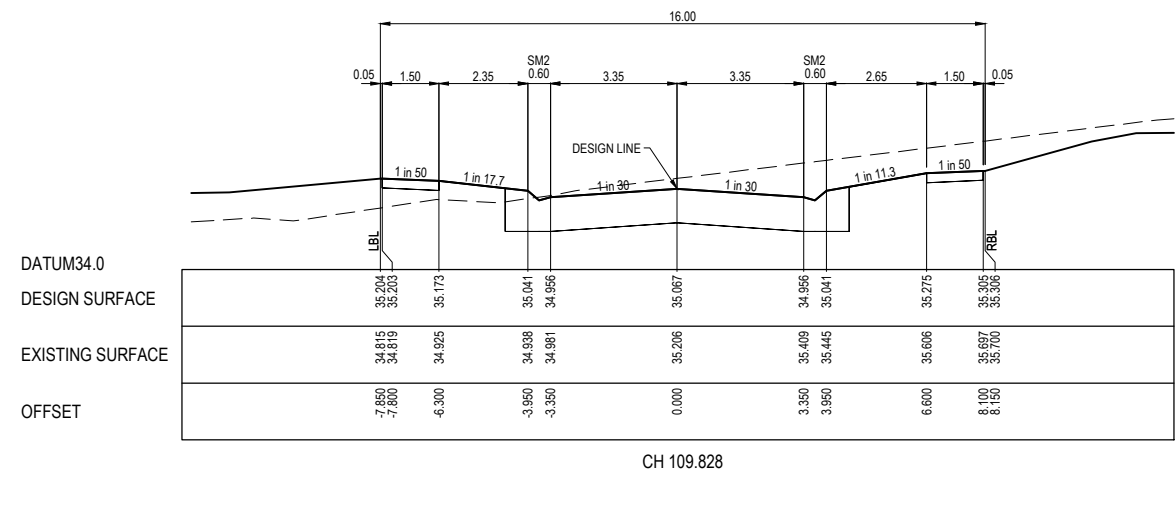
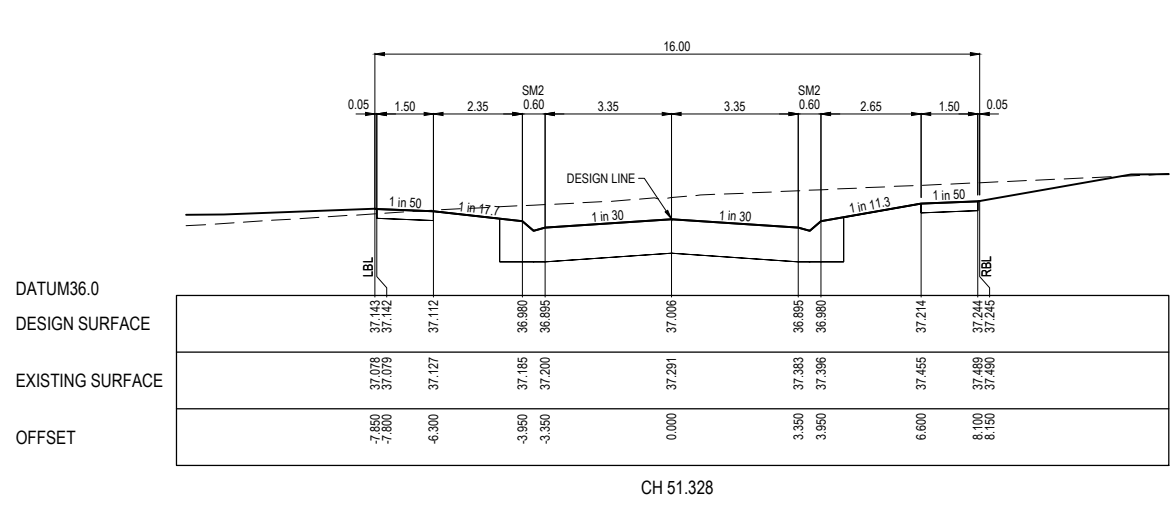
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Project Ref	1701814
Stage No	02
Drawing No	204
Rev	A

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

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- ▨ STRUCTURAL FILL



TOPIARY STREET - ROAD CROSS SECTIONS

FOR CONSTRUCTION

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
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Approved: N.MARTENS
Reg. No: PS0008272
Date: 01.10.2022
PS Number: PS908410U

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1 Glenferrie Road
Malvern VIC 3144
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Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL



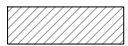
Drawing Title
ROAD CROSS SECTIONS
TOPIARY STREET
(SHEET 1 OF 2)

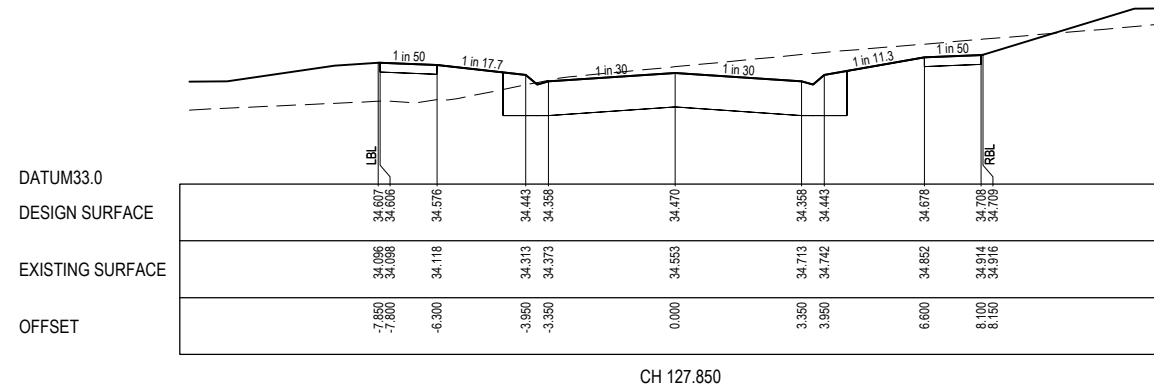
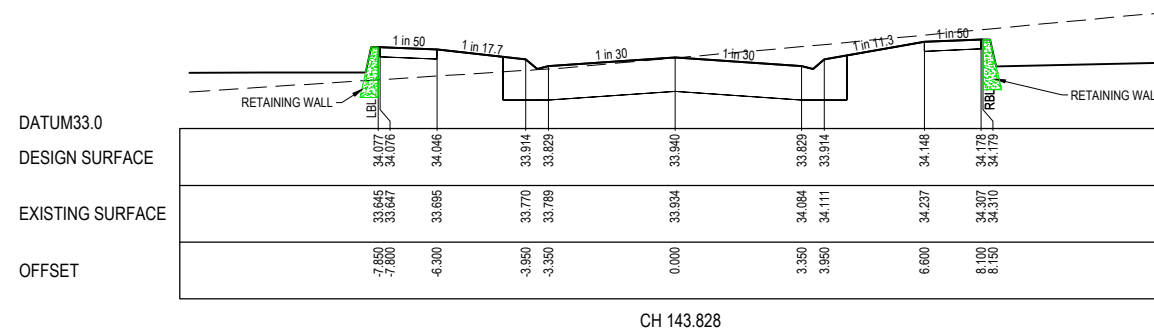
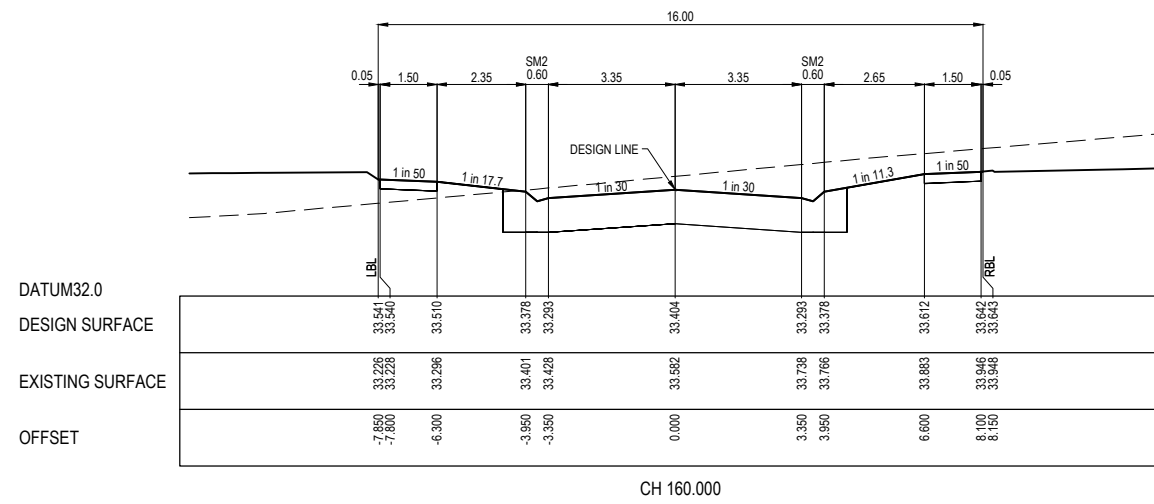
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Project Ref: 1701814
Stage No: 02
Drawing No: 205
Rev: A

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

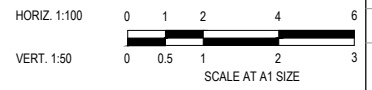
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	STRUCTURAL FILL



TOPIARY STREET - ROAD CROSS SECTIONS

FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
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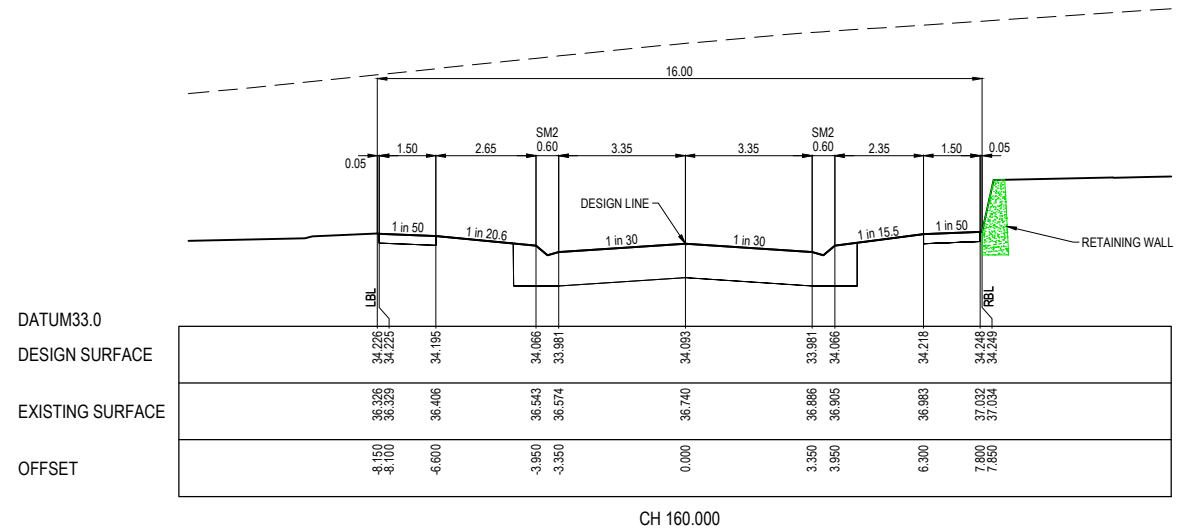
Project Details
 10 CANTY LANE, PAKENHAM
 STAGE 2
 CARDINIA SHIRE COUNCIL

Drawing Title
 ROAD CROSS SECTIONS
 TOPIARY STREET
 (SHEET 2 OF 2)

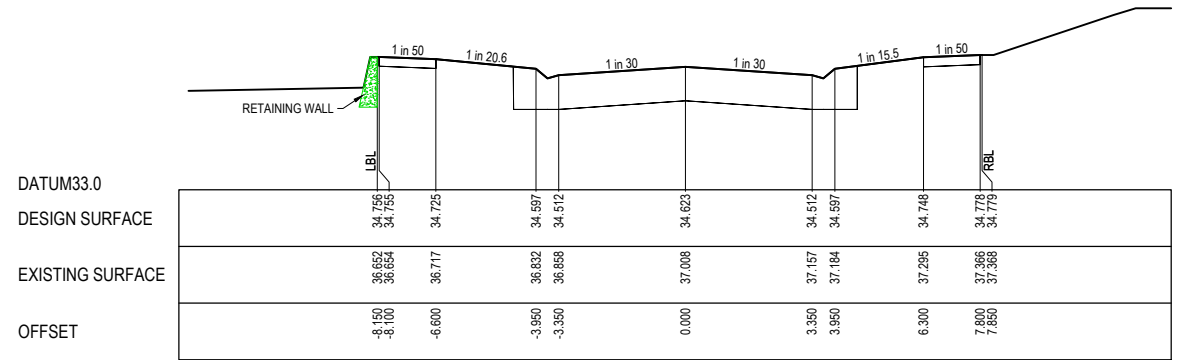
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Project Ref	1701814
Stage No	02
Drawing No	206
Rev	A

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

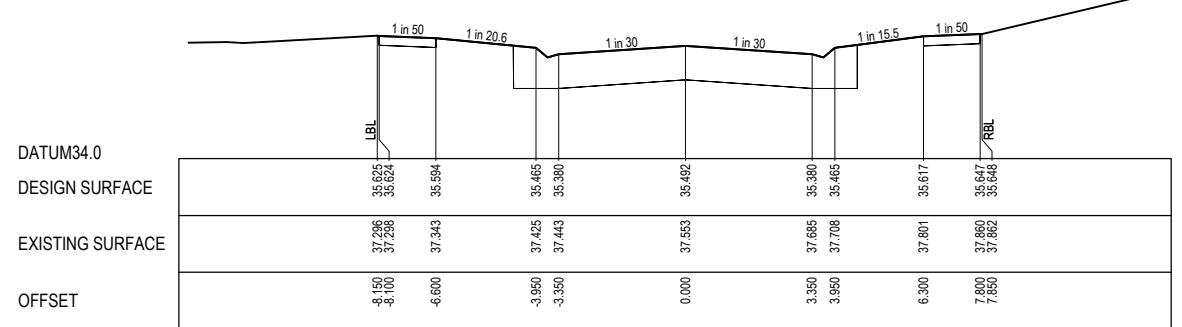
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	STRUCTURAL FILL



CH 160.000

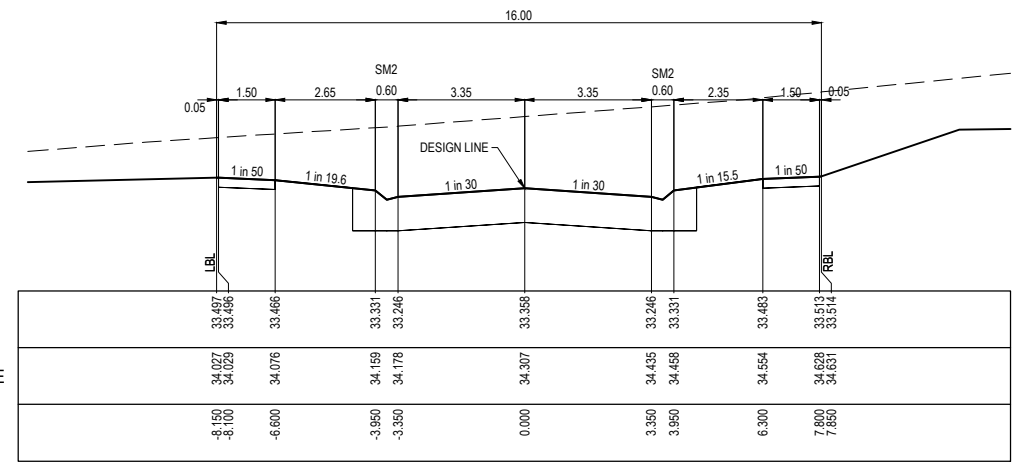


CH 143.828

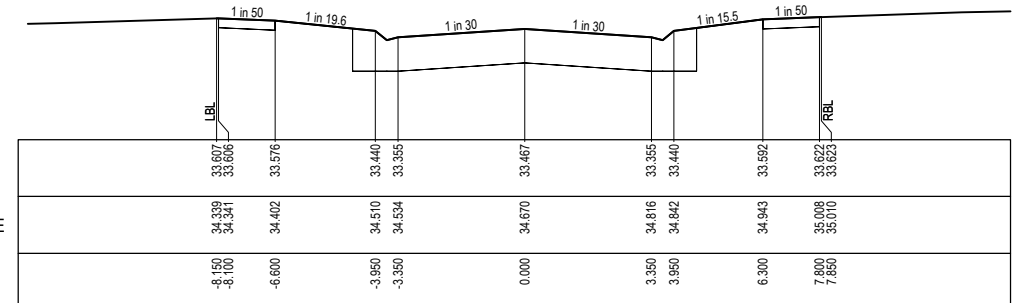


CH 117.350

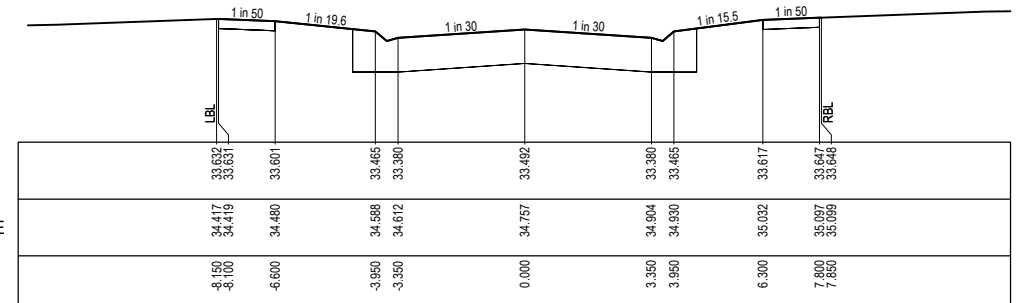
PEBBLE ROAD - ROAD CROSS SECTIONS



CH 41.850



CH 20.000

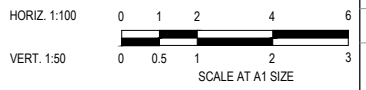


CH 15.000

OASIS WAY - ROAD CROSS SECTIONS

FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					



Designed: Y.SAVRIMOOTOO
 Date: 22.08.2022
 Drawn: M.F.JAURIGUE
 Checked: N.MARTENS
 Date: 30.11.22
 Approved: N.MARTENS
 Reg. No.: PS0008272
 Date: 01.10.2022
 PS Number: PS908410U

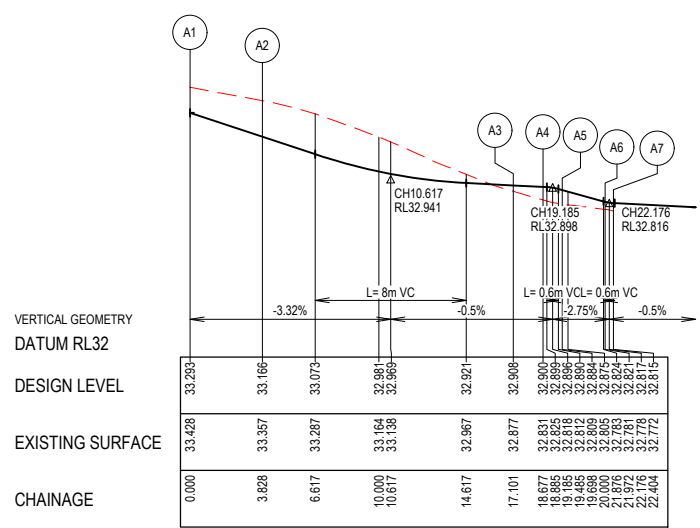
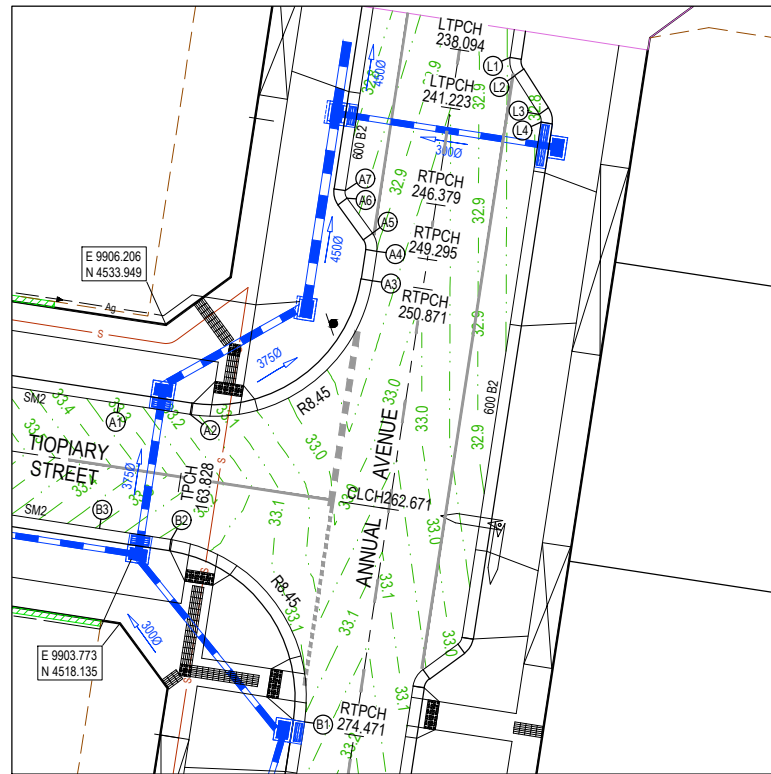
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 1 Glenferrie Road Malvern VIC 3144
 ph: 03 9524 8888
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Project Details
 10 CANTY LANE, PAKENHAM
 STAGE 2
 CARDINIA SHIRE COUNCIL

Drawing Title
 ROAD CROSS SECTIONS
 PEBBLE ROAD
 (SHEET 2 OF 2) & OASIS WAY

Sheet	26 of 38
Scale	1:100 H 1:50 V @ A1
Project Ref	1701814
Stage No	02
Drawing No	208
Rev	A

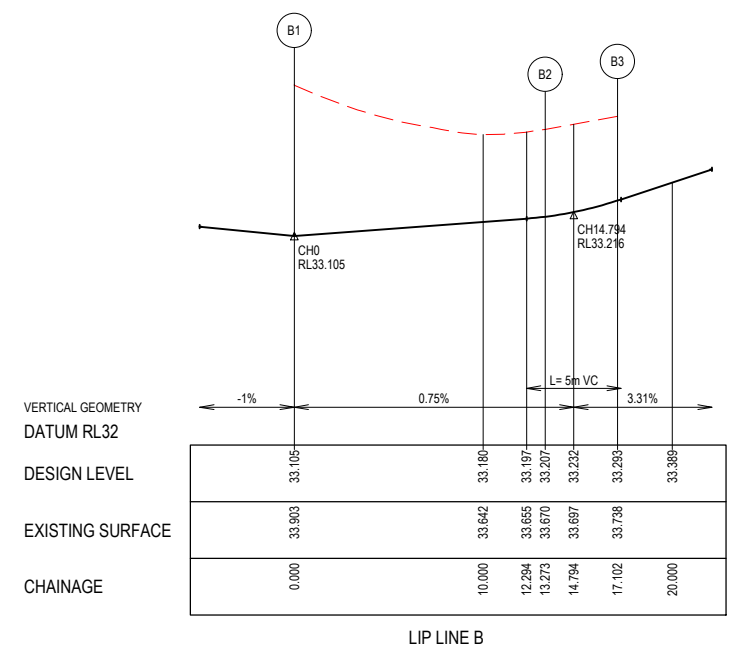
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ALIGNMENT A

Point no	Easting	Northing	RL
A1	9903.715	4529.780	33.293
A2	9907.498	4529.197	33.166
A3	9917.135	4536.264	32.908
A4	9917.375	4537.821	32.900
A5	9917.138	4538.788	32.884
A6	9915.794	4540.622	32.821
A7	9915.693	4541.031	32.815

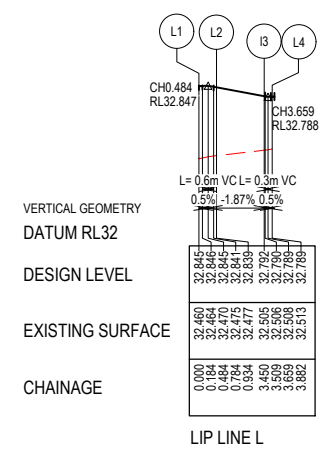
Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
A2 - A3	90.000	8.450	13.273	2.475	1.832	3.234	2.741	3.318	32.972
A4 - A5	45.000	1.300	1.021	0.099	0.074	0.254	0.244	0.255	32.896
A6 - A7	45.000	0.550	0.432	0.042	0.031	0.107	0.103	0.108	32.817



ALIGNMENT B

Point no	Easting	Northing	RL
B1	9913.546	4512.939	33.105
B2	9906.480	4522.575	33.207
B3	9902.696	4523.158	33.293

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
B1 - B2	90.000	8.450	13.273	2.475	1.832	3.234	2.741	3.318	33.155



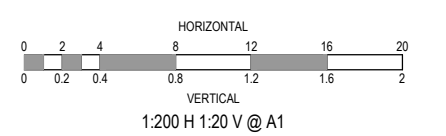
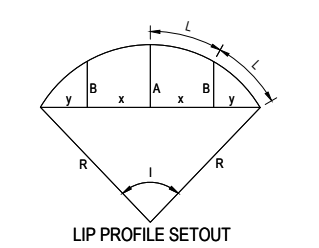
ALIGNMENT L

Point no	Easting	Northing	RL
L1	9924.416	4548.071	32.845
L2	9924.608	4547.178	32.839
L3	9925.967	4545.061	32.792
L4	9926.068	4544.652	32.789

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
L1 - L2	41.158	1.300	0.934	0.083	0.062	0.232	0.225	0.233	32.845
L3 - L4	45.000	0.550	0.432	0.042	0.031	0.107	0.103	0.108	32.788

LEGEND

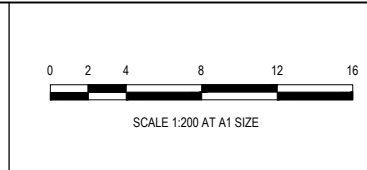
- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- EXISTING HOUSE DRAIN
- RETAINING WALL
- PAVEMENT TREATMENT
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN
- "NO ROAD" SIGN & BARRIER
- LIMIT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



FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					

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Drawn	M.F. JAURIGUE
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Date	30.11.22
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Reg. No.	PE009272
Date	01.10.2022
PS Number	PS908410U



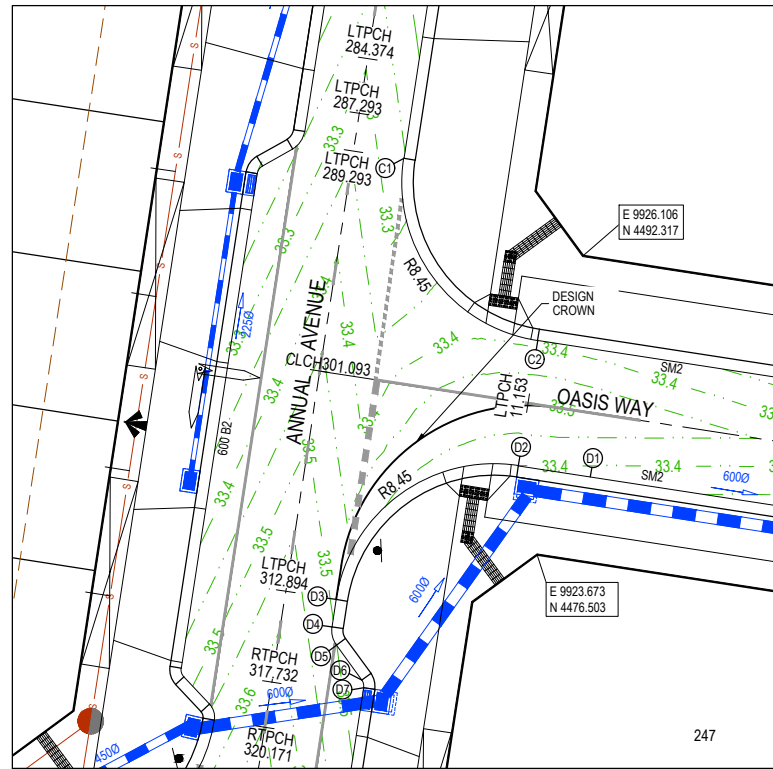
BW Beveridge Williams
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 1 Glenferrie Road, Malvern VIC 3144
 ph: 03 9524 8688
 www.beveridgewilliams.com.au

Project Details
 10 CANTY LANE, PAKENHAM
 STAGE 2
 CARDINIA SHIRE COUNCIL

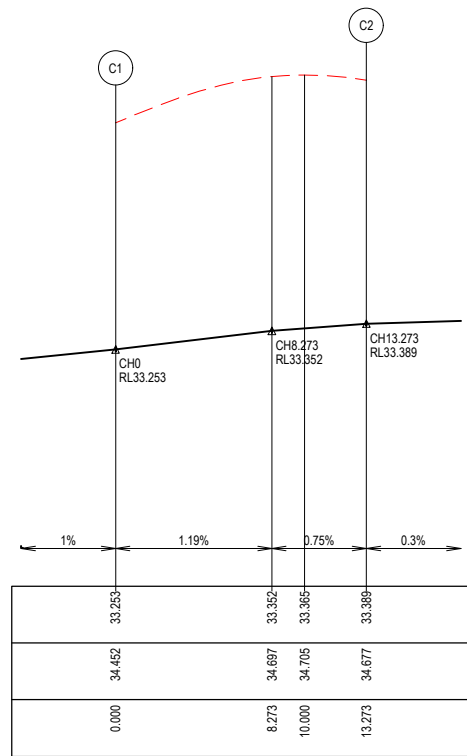
Drawing Title
 INTERSECTION DETAILS
 (SHEET 1 OF 4)

Sheet 27 of 38
 Scale 1:200 @ A1
 Project Ref 1701814 Stage No 02 Drawing No 300 Rev A

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VERTICAL GEOMETRY
DATUM RL32
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE



LIP LINE C

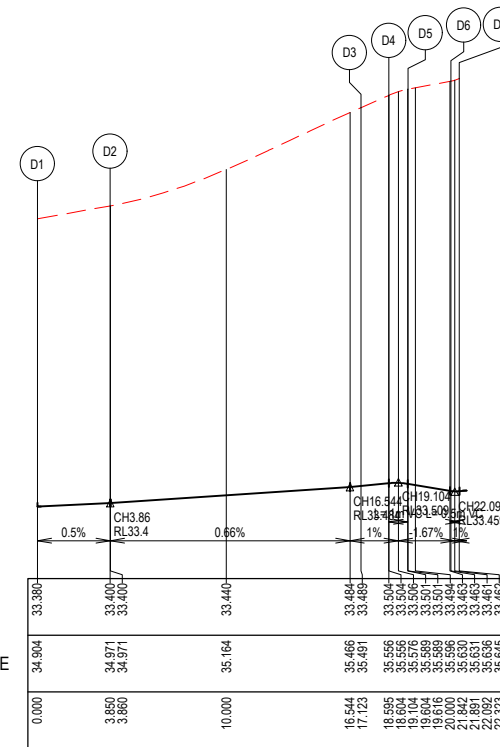
ALIGNMENT C

Point no	Easting	Northing	RL
C1	9916.623	4497.469	33.253
C2	9923.690	4487.832	33.389

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
C1 - C2	90.000	8.450	13.273	2.475	1.832	3.234	2.741	3.318	33.332



VERTICAL GEOMETRY
DATUM RL33
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE

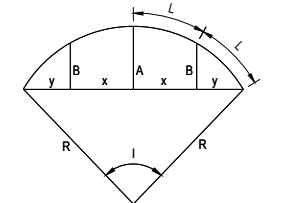


LIP LINE D

ALIGNMENT D

Point no	Easting	Northing	RL
D1	9926.482	4480.623	33.380
D2	9922.677	4481.209	33.400
D3	9913.040	4474.142	33.489
D4	9912.816	4472.687	33.504
D5	9913.053	4471.721	33.501
D6	9914.398	4469.887	33.463
D7	9914.498	4469.478	33.462

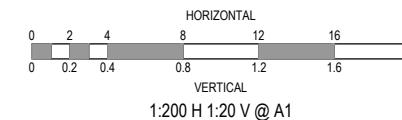
Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
D2 - D3	90.000	8.450	13.273	2.475	1.832	3.234	2.741	3.318	33.443
D4 - D5	45.000	1.300	1.021	0.099	0.074	0.254	0.244	0.255	33.506
D6 - D7	45.000	0.550	0.432	0.042	0.031	0.107	0.103	0.108	33.461



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
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B	RETURN C UPDATED, PBAY REDUCED	21.08.23	CD	NM					
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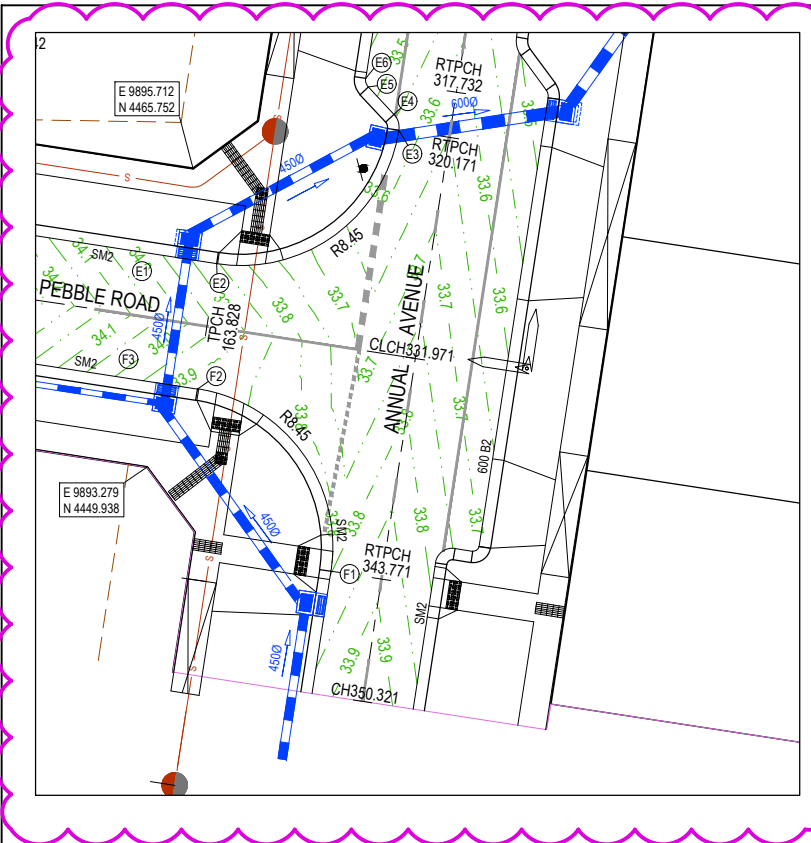
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Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL
Drawing Title
INTERSECTION DETAILS
(SHEET 2 OF 4)

Sheet 28 of 38

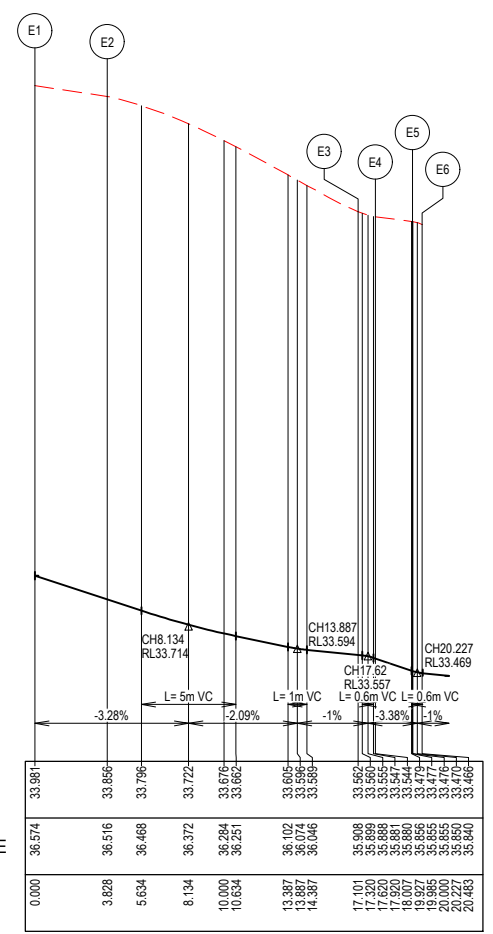
Scale
1:200 @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	02	301	B



B

VERTICAL GEOMETRY
DATUM RL33
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE

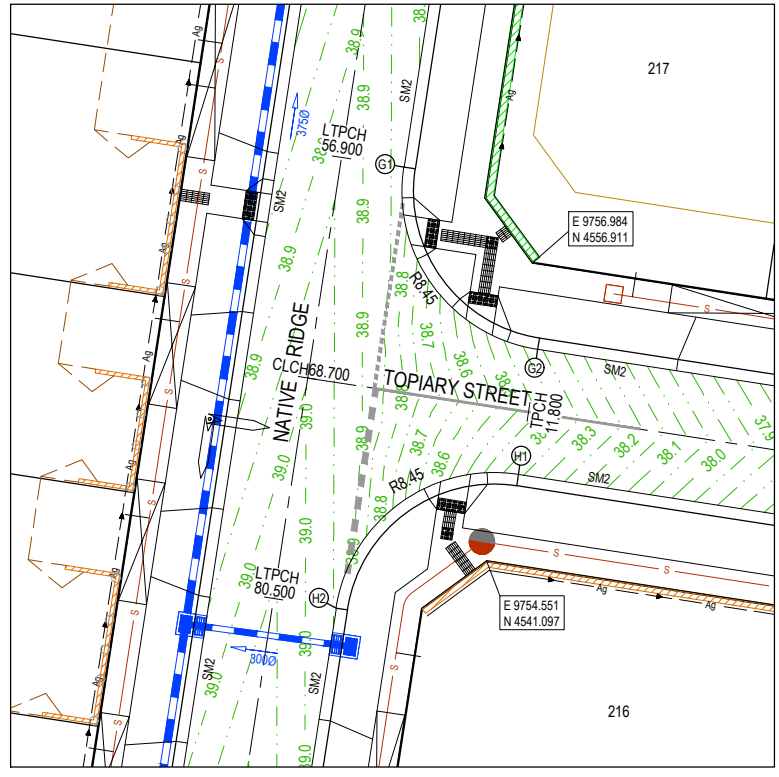


LIP LINE E

ALIGNMENT E

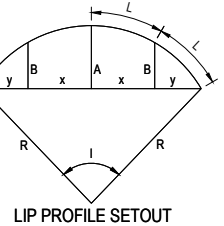
Point no	Easting	Northing	RL
E1	9893.176	4461.286	33.981
E2	9896.959	4460.704	33.856
E3	9906.596	4467.770	33.562
E4	9906.337	4468.606	33.544
E5	9904.984	4470.048	33.477
E6	9904.842	4470.508	33.466

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
E2 - E3	90.000	8.450	13.273	2.475	1.832	3.234	2.741	3.318	33.666
E3 - E4	51.912	1.000	0.906	0.101	0.075	0.225	0.213	0.227	33.556
E5 - E6	51.912	0.550	0.498	0.055	0.041	0.124	0.117	0.125	33.470

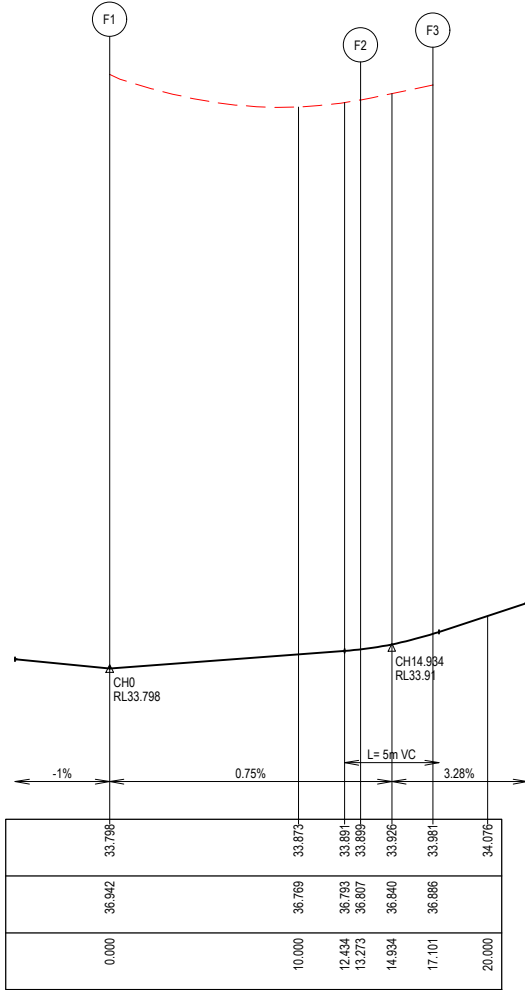


LEGEND

- 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



VERTICAL GEOMETRY
DATUM RL33
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE

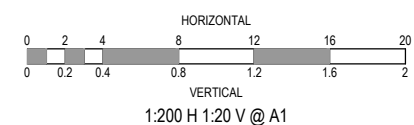


LIP LINE F

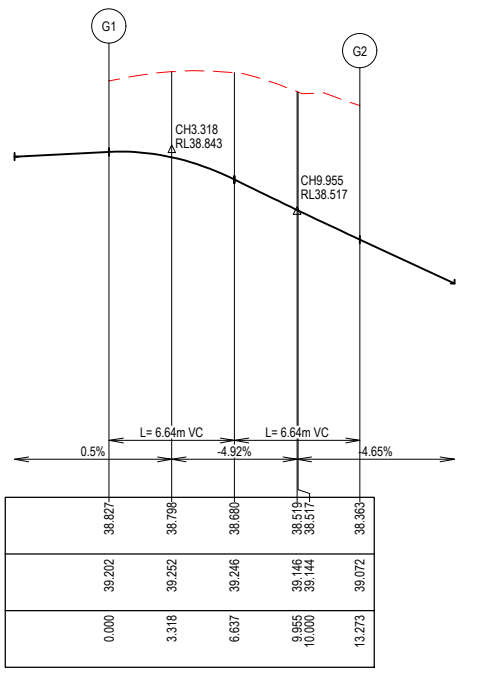
ALIGNMENT F

Point no	Easting	Northing	RL
F1	9903.007	4444.445	33.798
F2	9895.940	4454.082	33.899
F3	9892.157	4454.664	33.981

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
F1 - F2	90.000	8.450	13.273	2.475	1.832	3.234	2.741	3.318	33.848



VERTICAL GEOMETRY
DATUM RL37
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE



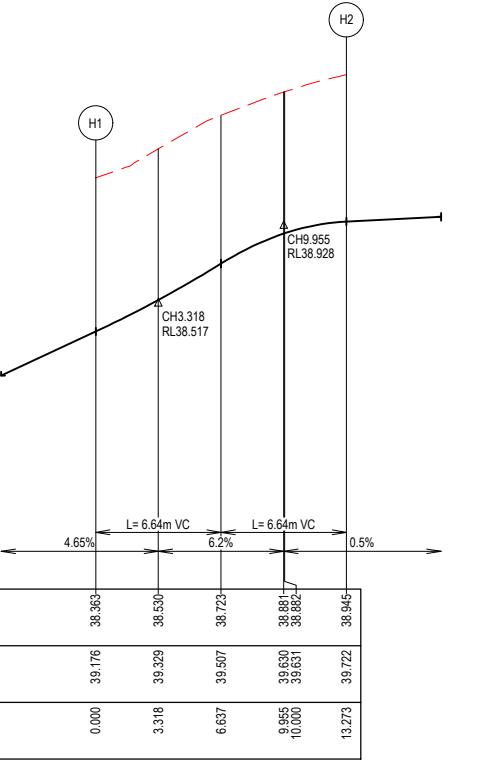
LIP LINE G

ALIGNMENT G

Point no	Easting	Northing	RL
G1	9750.172	4561.955	38.827
G2	9757.239	4552.318	38.363

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
G1 - G2	90.000	8.450	13.273	2.475	1.832	3.234	2.741	3.318	38.680

VERTICAL GEOMETRY
DATUM RL37
DESIGN LEVEL
EXISTING SURFACE
CHAINAGE



LIP LINE H

ALIGNMENT H

Point no	Easting	Northing	RL
H1	9756.220	4545.696	38.363
H2	9746.583	4538.630	38.945

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
H1 - H2	90.000	8.450	13.273	2.475	1.832	3.234	2.741	3.318	38.723

FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
B	PBAY REDUCED, PRAM CROSSINGS AMENDED	21.08.23	CD	NM					
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					

Designed	Date	Drawn	Checked	Date	Approved	Date	PS Number
Y.SAVRIMOOTOO	22.08.2022	M.F. JAURIGUE	N.MARTENS	30.11.22	N.MARTENS	01.10.2022	PS908410U

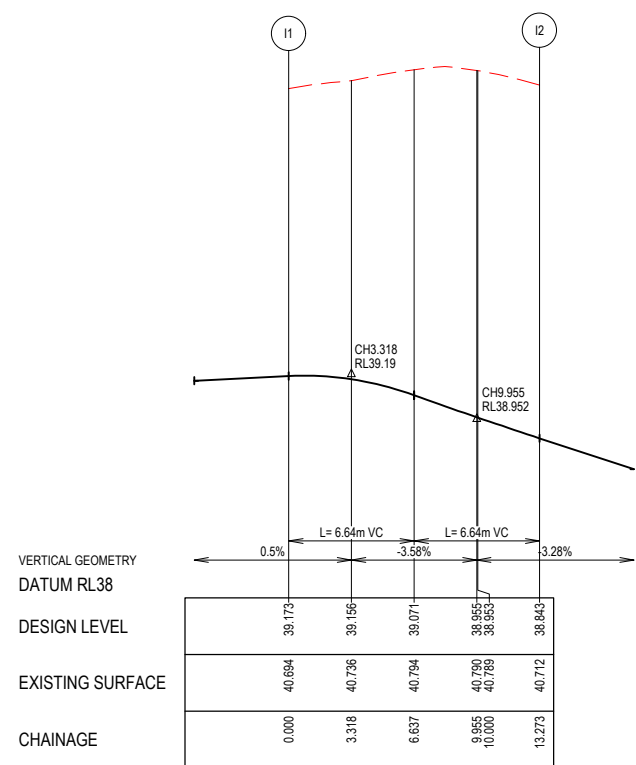
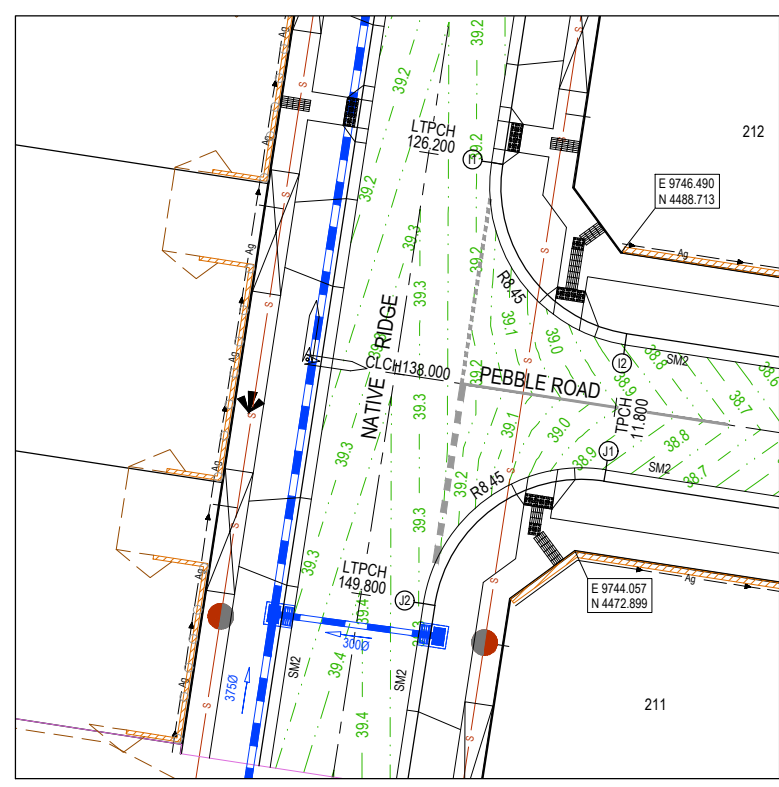
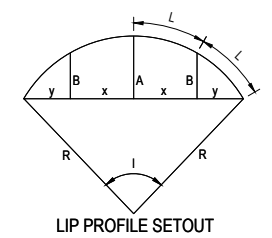
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ph: 03 9524 8688
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Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL
Drawing Title
INTERSECTION DETAILS
(SHEET 3 OF 4)

Sheet 29 of 38
Scale
1:200 @ A1
Project Ref
1701814
Stage No
02
Drawing No
302
Rev
B

LEGEND

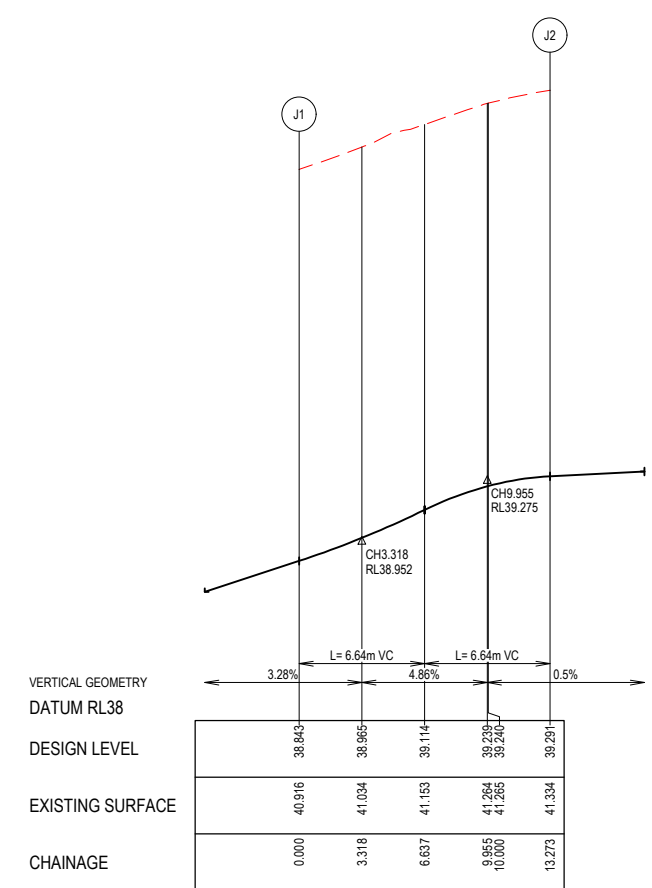
- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- EXISTING HOUSE DRAIN
- RETAINING WALL
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- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN,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



ALIGNMENT I

Point no	Easting	Northing	RL
I1	9739.633	4493.461	39.173
I2	9746.699	4483.825	38.843

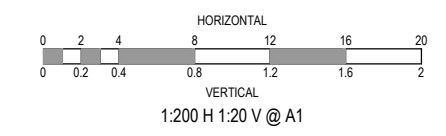
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
I1 - I2	90.000	8.450	13.273	2.475	1.832	3.234	2.741	3.318	39.071



ALIGNMENT J

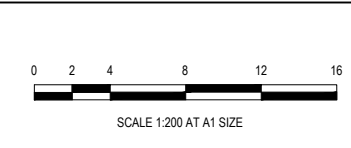
Point no	Easting	Northing	RL
J1	9745.680	4477.202	38.843
J2	9736.044	4470.136	39.291

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
J1 - J2	90.000	8.450	13.273	2.475	1.832	3.234	2.741	3.318	39.114



FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					



Designed Y.SAVRIMOOTOO
Date 22.08.2022
Drawn M.F. JAURIGUE
Checked N.MARTENS
Date 30.11.22
Approved N.MARTENS
Reg. No. PE0009272
Date 01.10.2022
PS Number PS908410U

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Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8688
www.beveridgewilliams.com.au

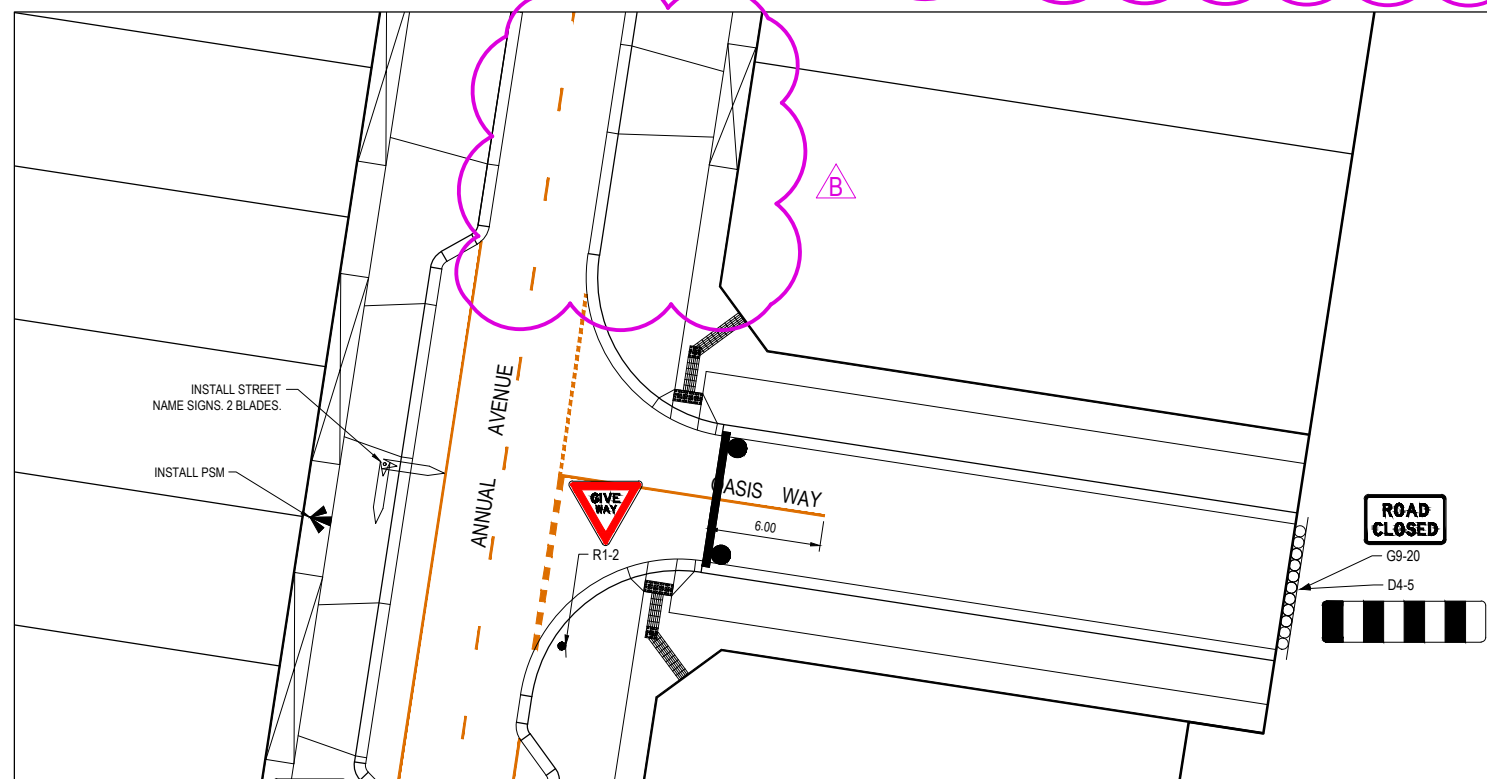
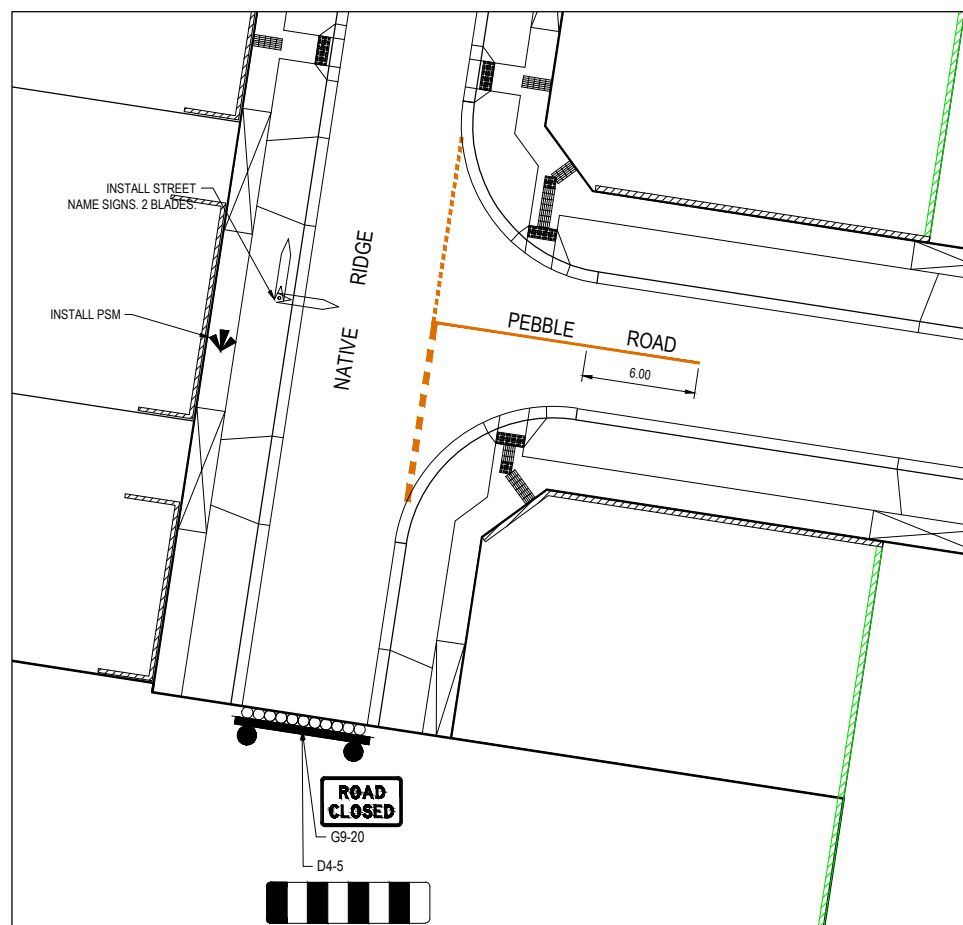
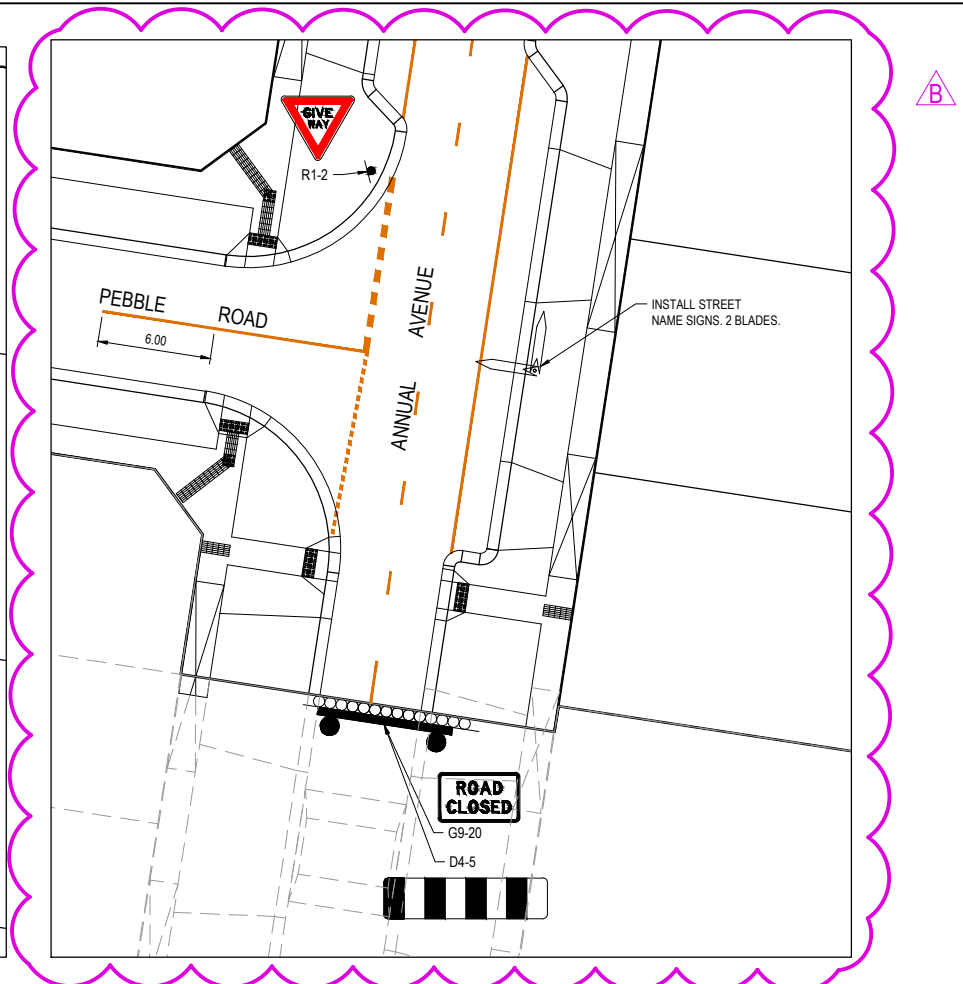
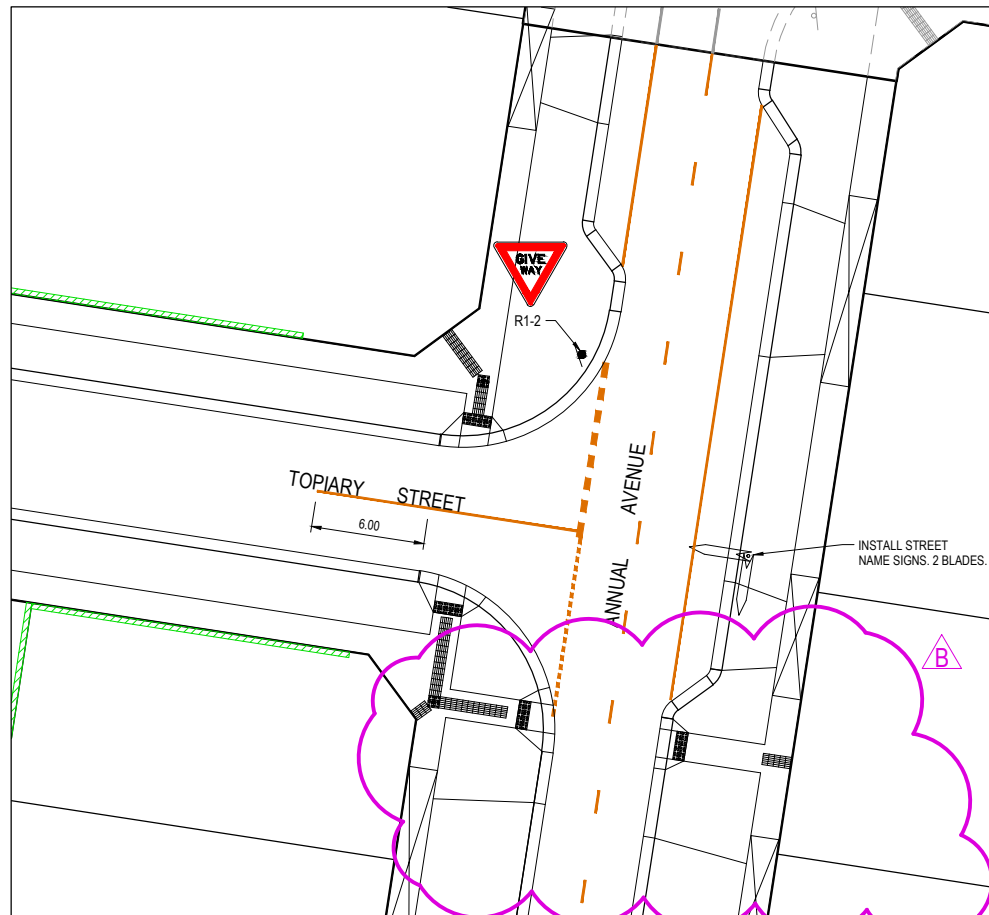
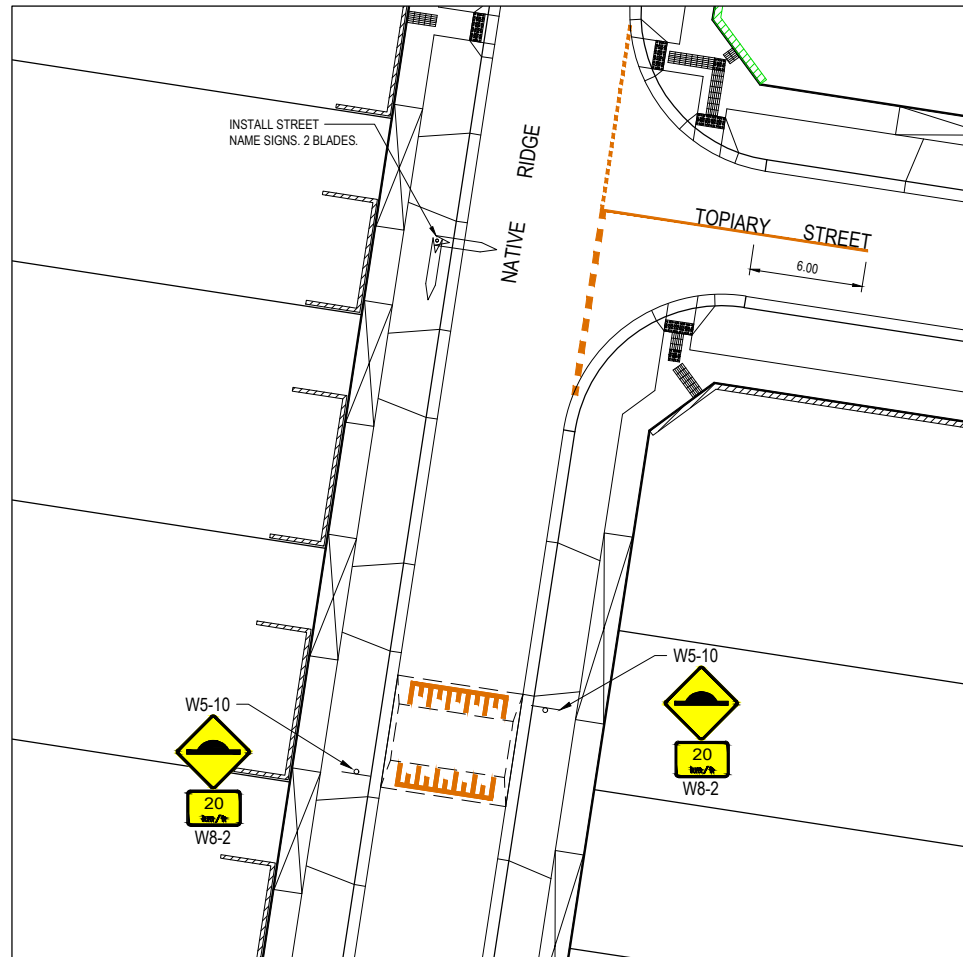
Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL

Drawing Title
INTERSECTION DETAILS
(SHEET 4 OF 4)

Sheet 30 of 38
Scale 1:200 @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	02	303	A

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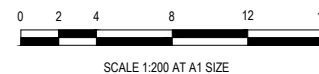


- NOTES**
1. RRPMS AT MAX 6m SPACING.
 2. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
 3. LINEMARKING IN ACCORDANCE WITH AS1742.
 4. TGS1 TO BE INSTALLED IN ACCORDANCE WITH AS1428.4, CSC-101 STANDARD & VICROADS SUPPLEMENTARY STANDARD TEM Vol 2 Part 2.23
 5. ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVANT STREET NUMBERING. STREET NAME SIGNS AS PER STANDARD DWG. CS-500.
 6. 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.

FOR CONSTRUCTION

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
B	P&A REDUCED, PRAM CROSSINGS AMENDED	21.08.23	CD	NM					
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					



Designed Y.SAVRIMOOTOO
Date 22.08.2022
Drawn M.F.JAURIGUE
Date 30.11.22
Checked N.MARTENS
Date 30.11.22
Approved N.MARTENS
Reg. No. PE0009272
Date 01.10.2022
PS Number PS908410U

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL
Drawing Title
SIGNAGE & LINE MARKING PLANS

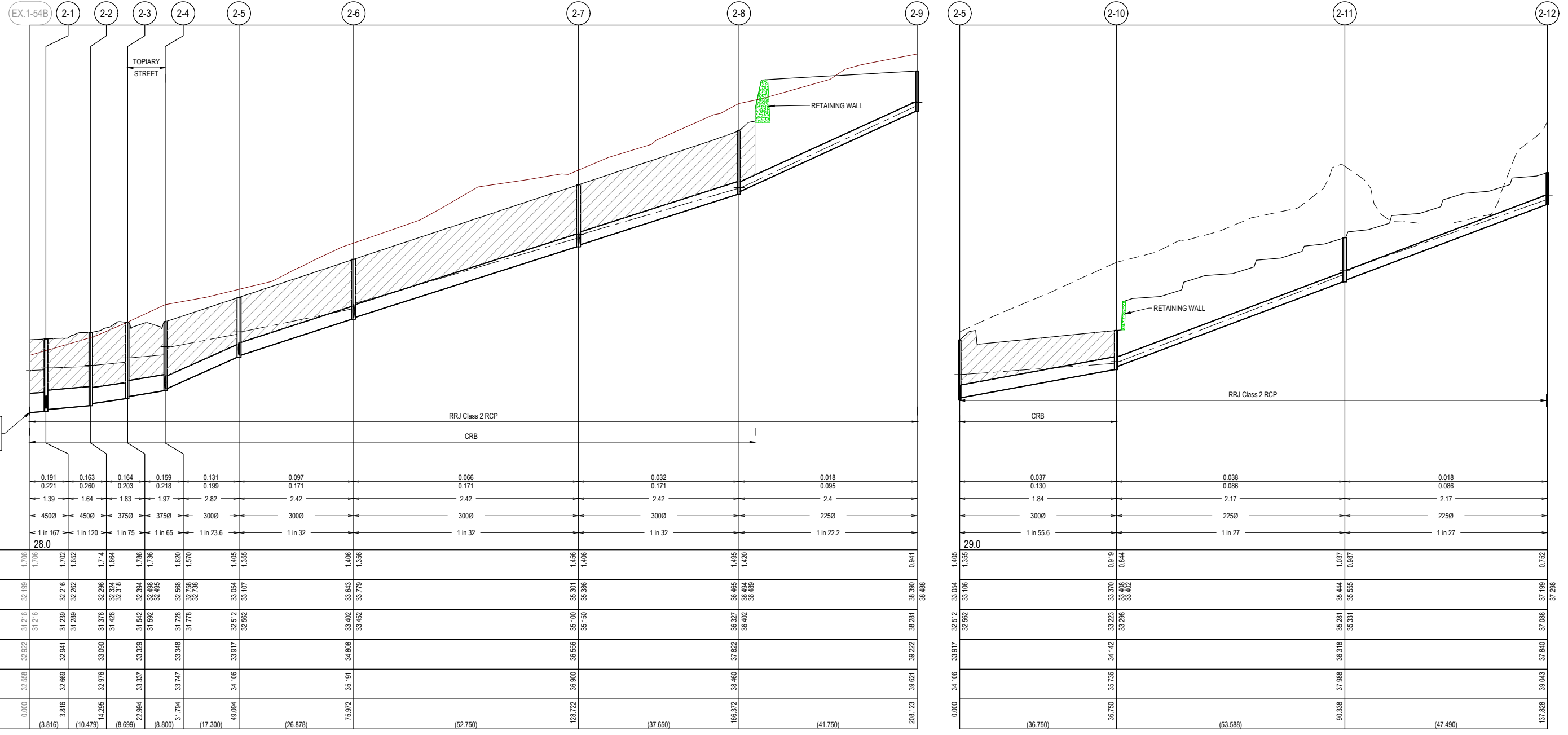
Sheet 31 of 38

Scale
1:200 @ A1

Project Ref 1701814
Stage No 02
Drawing No 350
Rev B

NOTES:
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 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.



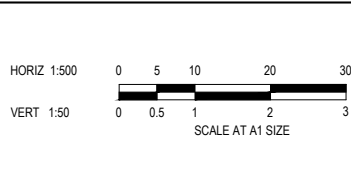
INVERT LEVEL SOURCED FROM BEVERIDGE WILLIAMS DESIGN PLANS DWG No. 1701814-01-403 REV A

	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-8	2-9	2-5	2-10	2-11	2-12					
DESIGN FLOW (m ³ /s)	0.191	0.163	0.164	0.159	0.131		0.097		0.032		0.037	0.038	0.018					
CAPACITY (m ³ /s)	0.221	0.260	0.203	0.218	0.199		0.171		0.171		0.130	0.086	0.086					
AT GRADE VELOCITY (m/s)	1.39	1.64	1.83	1.97	2.82		2.42		2.42		1.84	2.17	2.17					
PIPE SIZE (mm)	4500	4500	3750	3750	3000		3000		3000		3000	2250	2250					
PIPE GRADE	1 in 167	1 in 120	1 in 75	1 in 65	1 in 23.6		1 in 32		1 in 32		1 in 55.6	1 in 27	1 in 27					
DATUM	28.0																	
DEPTH TO INVERT	1.706	1.706	1.702	1.652	1.714	1.664	1.786	1.736	1.620	1.570	1.405	1.355	1.406	1.406	1.495	1.420	0.941	0.941
H.G.L	31.216	31.216	31.216	31.216	31.216	31.216	31.216	31.216	31.216	31.216	31.216	31.216	31.216	31.216	31.216	31.216	31.216	31.216
INVERT LEVEL	32.522	32.522	32.522	32.522	32.522	32.522	32.522	32.522	32.522	32.522	32.522	32.522	32.522	32.522	32.522	32.522	32.522	32.522
FINISHED SURFACE	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558
EXISTING SURFACE	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558	32.558
PIPE CHAINAGE (Reach Length)	0.000	3.816	14.295	22.994	31.794	49.094	128.722	166.372	208.123	36.750	36.750	90.338	137.828					

FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					

Designed	Y.SAVRIMOOTOO
Date	22.08.2022
Drawn	M.F. JAURIGUE
Checked	N.MARTENS
Date	30.11.22
Approved	N.MARTENS
Reg. No.	PE0009272
Date	01.10.2022
PS Number	PS908410U



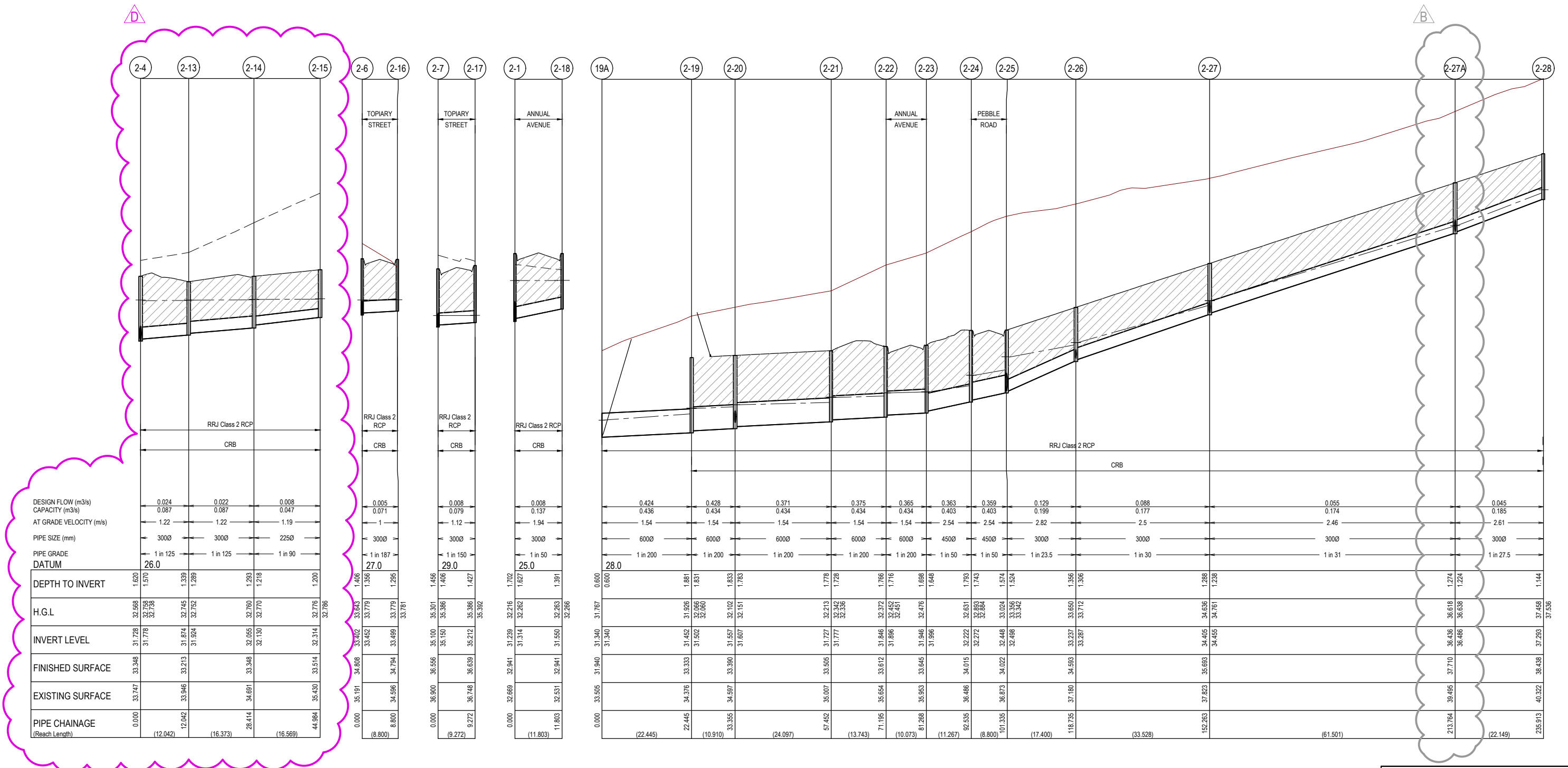
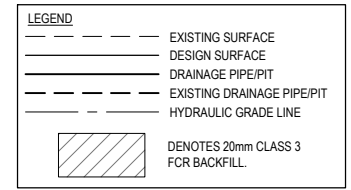
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 Development & Infrastructure Consultants
 1 Glenferrie Road Malvern VIC 3144
 ph: 03 9524 8888
 www.beveridgewilliams.com.au

Project Details
 10 CANTY LANE, PAKENHAM
 STAGE 2
 CARDINIA SHIRE COUNCIL
 Drawing Title
 DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 4)

Sheet	32 of 38
Scale	1:500 H 1:50 V @ A1
Project Ref	1701814
Stage No	02
Drawing No	400
Rev	A

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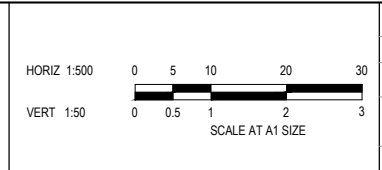
NOTES:
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.



FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
D	DRAINAGE PITS 2-13, 2-14, 2-34, & 2-35 UPDATED	21.08.23	CD	CD					
C	DRAINAGE PITS 2-13, 2-14, 2-34, & 2-35 UPDATED	18.08.23	CD	CD					
B	PIT 2-27A SHIFTED	14.06.23	CD	NM					
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					

DESIGNED	DATE	DRAWN	CHECKED	DATE	APPROVED	DATE
Y.SAVRIMOOTOO	22.08.2022	M.F. JAURIGUE	N.MARTENS	30.11.22	N.MARTENS	01.10.2022
			PE0009272			
			PS908410U			



Designed Y.SAVRIMOOTOO
 Date 22.08.2022
 Drawn M.F. JAURIGUE
 Checked N.MARTENS
 Date 30.11.22
 Approved N.MARTENS
 Reg. No. PE0009272
 Date 01.10.2022
 PS Number PS908410U

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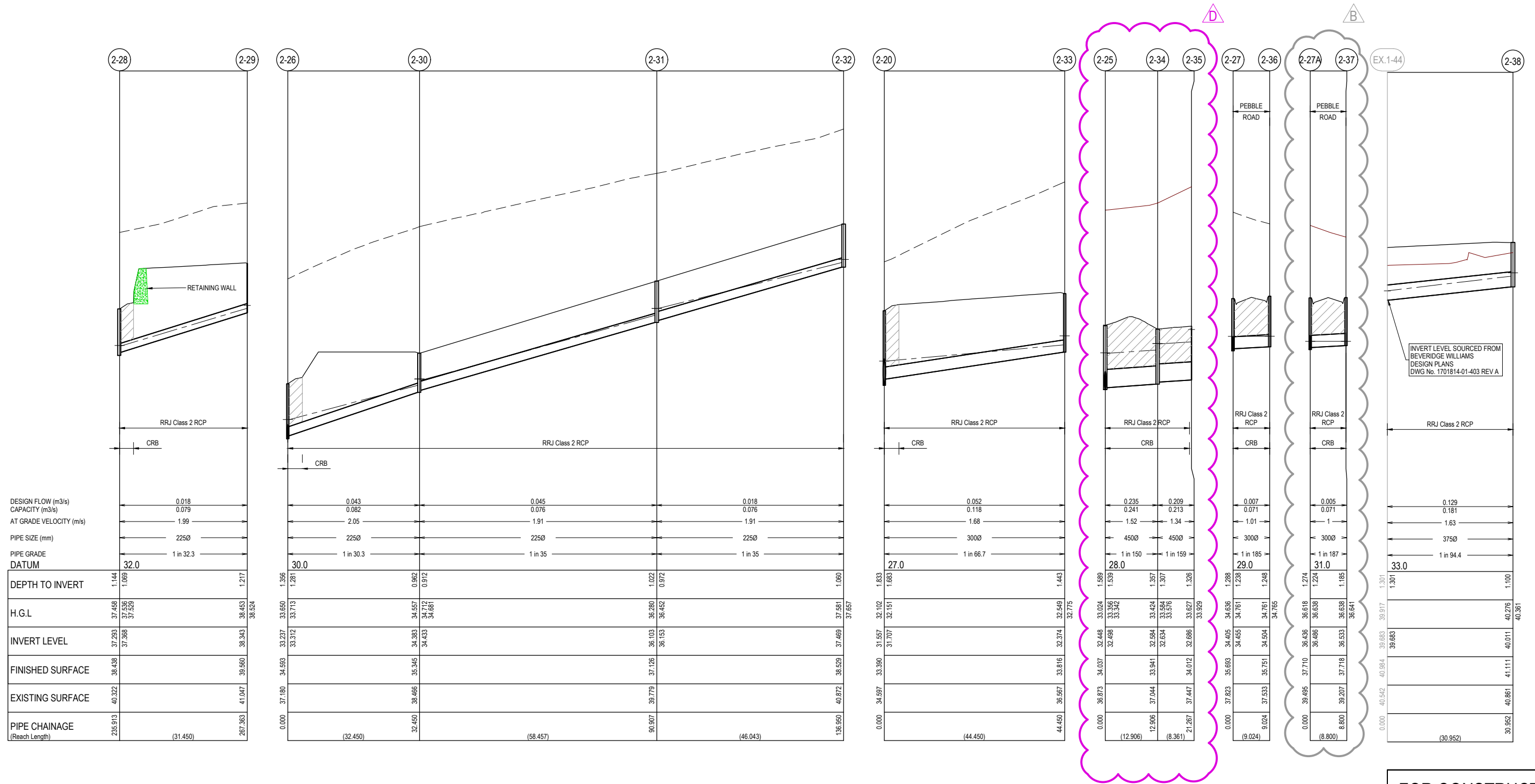
Project Details
 10 CANTY LANE, PAKENHAM
 STAGE 2
 CARDINIA SHIRE COUNCIL

Drawing Title
 DRAINAGE LONGITUDINAL SECTIONS
 (SHEET 2 OF 4)

Sheet	33 of 38
Scale	1:500 H 1:50 V @ A1
Project Ref	1701814
Stage No	02
Drawing No	401
Rev	D

NOTES:
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 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.



DESIGN FLOW (m3/s)	0.018
CAPACITY (m3/s)	0.079
AT GRADE VELOCITY (m/s)	1.99
PIPE SIZE (mm)	2250
PIPE GRADE DATUM	32.0
DEPTH TO INVERT	1.144
H.G.L.	37.458
INVERT LEVEL	37.293
FINISHED SURFACE	38.438
EXISTING SURFACE	40.222
PIPE CHAINAGE (Reach Length)	235.913

DESIGN FLOW (m3/s)	0.043
CAPACITY (m3/s)	0.082
AT GRADE VELOCITY (m/s)	2.05
PIPE SIZE (mm)	2250
PIPE GRADE DATUM	30.0
DEPTH TO INVERT	1.356
H.G.L.	33.227
INVERT LEVEL	33.227
FINISHED SURFACE	34.593
EXISTING SURFACE	37.180
PIPE CHAINAGE (Reach Length)	0.000

DESIGN FLOW (m3/s)	0.052
CAPACITY (m3/s)	0.118
AT GRADE VELOCITY (m/s)	1.68
PIPE SIZE (mm)	3000
PIPE GRADE DATUM	27.0
DEPTH TO INVERT	1.833
H.G.L.	31.557
INVERT LEVEL	31.557
FINISHED SURFACE	33.390
EXISTING SURFACE	34.597
PIPE CHAINAGE (Reach Length)	0.000

DESIGN FLOW (m3/s)	0.235
CAPACITY (m3/s)	0.241
AT GRADE VELOCITY (m/s)	1.52
PIPE SIZE (mm)	4500
PIPE GRADE DATUM	28.0
DEPTH TO INVERT	1.589
H.G.L.	32.448
INVERT LEVEL	32.448
FINISHED SURFACE	34.037
EXISTING SURFACE	36.673
PIPE CHAINAGE (Reach Length)	0.000

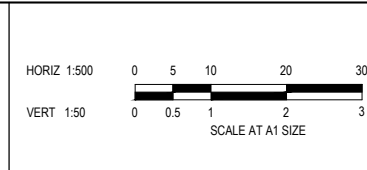
DESIGN FLOW (m3/s)	0.007
CAPACITY (m3/s)	0.071
AT GRADE VELOCITY (m/s)	1.01
PIPE SIZE (mm)	3000
PIPE GRADE DATUM	29.0
DEPTH TO INVERT	1.288
H.G.L.	34.405
INVERT LEVEL	34.405
FINISHED SURFACE	35.693
EXISTING SURFACE	37.823
PIPE CHAINAGE (Reach Length)	0.000

DESIGN FLOW (m3/s)	0.129
CAPACITY (m3/s)	0.181
AT GRADE VELOCITY (m/s)	1.63
PIPE SIZE (mm)	3750
PIPE GRADE DATUM	33.0
DEPTH TO INVERT	1.301
H.G.L.	39.683
INVERT LEVEL	39.683
FINISHED SURFACE	40.542
EXISTING SURFACE	40.984
PIPE CHAINAGE (Reach Length)	0.000

FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
D	DRAINAGE PITS 2-13, 2-14, 2-34, & 2-35 UPDATED	21.08.23	CD	CD					
C	DRAINAGE PITS 2-13, 2-14, 2-34, & 2-35 UPDATED	18.08.23	CD	CD					
B	PIT 2-37 SHIFTED	14.06.23	CD	NM					
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					

REV	DESCRIPTION	DATE	DRN.	APP.



Designed Y.SAVRIMOOTOO
 Date 22.08.2022
 Drawn M.F. JAURIGUE
 Date 30.11.22
 Checked N.MARTENS
 Date 30.11.22
 Approved N.MARTENS
 Reg. No. PE0009272
 Date 01.10.2022
 PS Number PS908410U

BW Beveridge Williams
 Development & Infrastructure Consultants
 1 Glenferrie Road
 Malvern VIC 3144
 ph: 03 9524 8688
 www.beveridgewilliams.com.au

Project Details
 10 CANTY LANE, PAKENHAM
 STAGE 2
 CARDINIA SHIRE COUNCIL

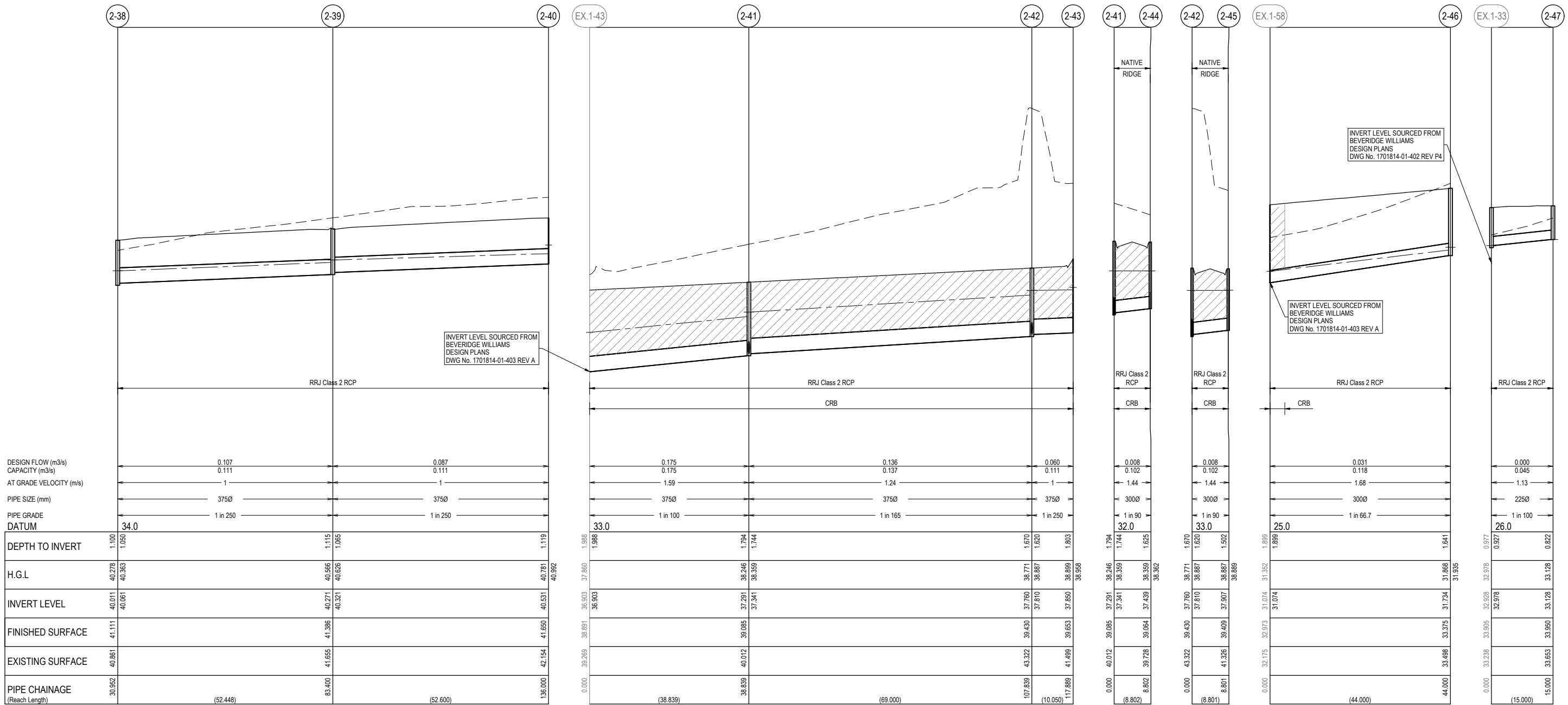
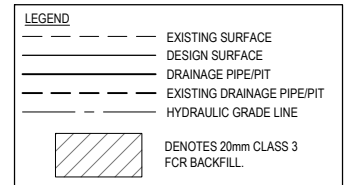
Drawing Title
 DRAINAGE LONGITUDINAL SECTIONS
 (SHEET 3 OF 4)

Sheet 34 of 38
 Scale 1:500 H 1:50 V @ A1

Project Ref 1701814
 Stage No 02
 Drawing No 402
 Rev D

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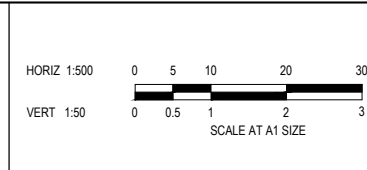
NOTES:
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.



FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					

Designed	Y.SAVRIMOOTOO
Date	22.08.2022
Drawn	M.F. JAURIGUE
Checked	N.MARTENS
Date	30.11.22
Approved	N.MARTENS
Reg. No.	PE0009272
Date	01.10.2022
PS Number	PS908410U



BW Beveridge Williams
 Development & Infrastructure Consultants

1 Glenferrie Road
 Malvern VIC 3144

ph: 03 9524 8688
 www.beveridgewilliams.com.au

Project Details
 10 CANTY LANE, PAKENHAM
 STAGE 2
 CARDINIA SHIRE COUNCIL

Drawing Title
 DRAINAGE LONGITUDINAL SECTIONS
 (SHEET 4 OF 4)

Sheet 35 of 38

Scale
 1:500 H 1:50 V @ A1

Project Ref
 1701814

Stage No
 02

Drawing No
 403

Rev
 A

K:\Jobs Data\1701814 - 10 Canty Lane, Pakenham_Eng\Stage 2\Drawings\1701814-02-400-DLS.dwg

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



PIT SCHEDULE											
PIT NUMBER	PIT TYPE	INTERNAL DIMENSION		INLET		OUTLET		COVER LEVEL (m)	DEPTH (m)	PIT STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INVERT LEVEL(m)	DIAMETER (mm)	INVERT LEVEL(m)				
EX.1-54B	END PIPE			450	31.216			32.92	1.71		CONNECT TO EXISTING ENDPipe AT IL 31.217
2-1	GRATED SIDE ENTRY PIT	600(T)	900(T)	450	31.289	450	31.239	32.94	1.70	ECDM Fig. 601 & 607	HAUNCHED TOWARDS NATURE STRIP
		900(B)	900(B)	300	31.314						
2-2	JUNCTION PIT	600(T)	900(T)	375	31.426	450	31.376	33.09	1.71	ECDM Fig. 607	HAUNCHED TOWARDS NATURE STRIP X- COORDINATES: 9913.649, Y-COORDINATES: 4534.760
		750(B)	900(B)								
2-3	GRATED SIDE ENTRY PIT	600	900	375	31.592	375	31.542	33.33	1.79	ECDM Fig. 603 & 605	HAUNCHED IN NATURE STRIP
2-4	GRATED SIDE ENTRY PIT	600	900	300	31.778	375	31.728	33.35	1.62	ECDM Fig. 603 & 605	
				300	31.778						
2-5	JUNCTION PIT	600	900	300	32.562	300	32.512	33.92	1.41	ECDM Fig. 605	
				300	32.562						
2-6	GRATED SIDE ENTRY PIT	600	900	300	33.452	300	33.402	34.81	1.41	ECDM Fig. 603 & 605	
				300	33.452						
2-7	GRATED SIDE ENTRY PIT	600	900	300	35.15	300	35.1	36.56	1.46	ECDM Fig. 603 & 605	
				300	35.15						
2-8	JUNCTION PIT	600	900	225	36.402	300	36.327	37.82	1.50	ECDM Fig. 605	
2-9	JUNCTION PIT	600	900	225	38.281	225	38.281	39.22	0.94	ECDM Fig. 605	
2-10	JUNCTION PIT	600	900	225	33.298	300	33.223	34.14	0.92	ECDM Fig. 605	
2-11	JUNCTION PIT	600	900	225	35.331	225	35.281	36.32	1.04	ECDM Fig. 605	
2-12	JUNCTION PIT	600	900	225	37.088	225	37.088	37.84	0.75	ECDM Fig. 605	
2-13	GRATED SIDE ENTRY PIT	600	900	300	31.924	300	31.874	33.21	1.34	ECDM Fig. 601 & 605	
2-14	GRATED SIDE ENTRY PIT	600	900	225	32.13	300	32.055	33.35	1.29	ECDM Fig. 601 & 605	
2-15	JUNCTION PIT	600	900	225	32.314	225	32.314	33.51	1.20	ECDM Fig. 605	
2-16	GRATED SIDE ENTRY PIT	600	900	300	33.499	300	33.499	34.79	1.30	ECDM Fig. 603 & 605	
2-17	GRATED SIDE ENTRY PIT	600	900	300	35.212	300	35.212	36.64	1.43	ECDM Fig. 603 & 605	
2-18	DOUBLE GRATED ENTRY PIT	600	900	300	31.55	300	31.55	32.94	1.39	ECDM Fig. 602 & 607	
2-19A	HEADWALL			600	31.34			31.94	0.60		PROVIDE TEMPORARY SANDBAG ENDWALL X- COORDINATES: 9972.031, Y-COORDINATES: 4492.041
2-19	JUNCTION PIT	600(T)	900(T)	600	31.502	600	31.452	33.33	1.88		HAUNCHED AND PIT HEIGHT TO BE ADJUSTED IN FUTURE STAGE X- COORDINATES: 9957.713, Y-COORDINATES: 4474.756
		900(B)	900(B)								
2-20	JUNCTION PIT	600(T)	900(T)	600	31.607	600	31.557	33.39	1.83	ECDM Fig. 607	HAUNCHED TOWARDS NATURE STRIP
		900(B)	900(B)	300	31.707						
2-21	JUNCTION PIT	600(T)	900(T)	600	31.777	600	31.727	33.51	1.78	ECDM Fig. 607	HAUNCHED TOWARDS NATURE STRIP
		900(B)	900(B)								
2-22	GRATED SIDE ENTRY PIT	600(T)	900(T)	600	31.896	600	31.846	33.61	1.77	ECDM Fig. 601 & 607	HAUNCHED TOWARDS NATURE STRIP
		900(B)	900(B)								
2-23	GRATED SIDE ENTRY PIT	600	900	450	31.996	600	31.946	33.65	1.70	ECDM Fig. 603 & 605	HAUNCHED TOWARDS NATURE STRIP
2-24	GRATED SIDE ENTRY PIT	600(T)	900(T)	450	32.272	450	32.222	34.02	1.79	ECDM Fig. 603 & 605	HAUNCHED TOWARDS NATURE STRIP
		600(B)	1050(B)								
2-25	GRATED SIDE ENTRY PIT	600	900	300	32.498	450	32.448	34.02	1.57	ECDM Fig. 603 & 605	
				450	32.498						
2-26	JUNCTION PIT	600	900	300	33.287	300	33.237	34.59	1.36	ECDM Fig. 605	
				225	33.312						
2-27	GRATED SIDE ENTRY PIT	600	900	300	34.455	300	34.405	35.69	1.29	ECDM Fig. 603 & 605	
				300	34.455						
2-27A	GRATED SIDE ENTRY PIT	600	900	300	36.486	300	36.436	37.71	1.27	ECDM Fig. 603 & 605	
				300	36.486						
2-28	JUNCTION PIT	600	900	225	37.368	300	37.293	38.44	1.14	ECDM Fig. 603 & 605	
2-29	END PIPE					225	38.343	39.56	1.22		CAP AND SEAL, PROVIDE MARKER POST
2-30	JUNCTION PIT	600	900	225	34.433	225	34.383	35.35	0.96	ECDM Fig. 605	PROVIDE PIT AS PER CITY OF CARDINIA STANDARD DWG CSC-213 TO BE REPLACED WITH CLASS B FIBRE GLASS COVER IN THE FUTURE
2-31	JUNCTION PIT	600	900	225	36.153	225	36.103	37.13	1.02	ECDM Fig. 605	
2-32	JUNCTION PIT	600	900	225	37.469	225	37.469	38.53	1.06	ECDM Fig. 605	PROVIDE PIT AS PER CITY OF CARDINIA STANDARD DWG CSC-213 TO BE REPLACED WITH CLASS B FIBRE GLASS COVER IN THE FUTURE
2-33	JUNCTION PIT	600	900	300	32.424	300	32.374	33.82	1.44		
2-34	GRATED SIDE ENTRY PIT	600(T)	900(T)	450	32.634	450	32.584	33.94	1.36	ECDM Fig. 603 & 607	HAUNCHED TOWARDS NATURE STRIP
		750(B)	900(B)								
2-35	END PIPE					450	32.686	34.01	1.33		CAP AND SEAL, PROVIDE MARKER POST
2-36	GRATED SIDE ENTRY PIT	600	900	300	34.504	300	34.504	35.75	1.25	ECDM Fig. 603 & 605	
2-37	GRATED SIDE ENTRY PIT	600	900	300	36.533	300	36.533	37.72	1.19	ECDM Fig. 603 & 605	
EX.1-44	EX. END PIPE			375	39.683	375	39.683	41.01	1.33		CONNECT TO EXISTING ENDPipe AT IL 39.06
2-38	JUNCTION PIT	600	900	375	40.061	375	40.011	41.11	1.10	ECDM Fig. 605	
2-39	JUNCTION PIT	600	900	375	40.321	375	40.271	41.39	1.12	ECDM Fig. 605	
2-40	END PIPE					375	40.531	41.65	1.12		CAP AND SEAL, PROVIDE MARKER POST
EX.1-43	EX. END PIPE			375	36.903			38.89	1.99		CONNECT TO EXISTING ENDPipe AT IL 36.903
2-41	GRATED SIDE ENTRY PIT	600	900	375	37.341	375	37.291	39.09	1.79	ECDM Fig. 603 & 605	PROVIDE CLASS D CAST IRON COVER
				300	37.341						
2-42	GRATED SIDE ENTRY PIT	600	900	375	37.81	375	37.76	39.43	1.67	ECDM Fig. 603 & 605	PROVIDE CLASS D CAST IRON COVER
				300	37.81						
2-43	EX. END PIPE					375	37.85	39.65	1.80		CAP AND SEAL, PROVIDE MARKER POST
2-44	GRATED SIDE ENTRY PIT	600	900	300	37.439	300	37.439	39.06	1.63	ECDM Fig. 603 & 605	
2-45	GRATED SIDE ENTRY PIT	600	900	300	37.907	300	37.907	39.41	1.50	ECDM Fig. 603 & 605	
EX.1-58	EX. END PIPE			300	31.074			32.97	1.90		CONNECT TO EXISTING ENDPipe AT IL 31.074
2-46	JUNCTION PIT	600	900	300	31.734	300	31.734	33.38	1.64	ECDM Fig. 605	
EX.1-33	JUNCTION PIT	600	900	225	32.978			33.91	0.98	ECDM Fig. 605	BREAK INTO EXISTING PIT AND CONNECT AT IL 32.547
2-47	JUNCTION PIT	600	900	225	33.128	225	33.128	33.95	0.82	ECDM Fig. 605	

FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
D	DRAINAGE PITS 2-13, 2-14, 2-34, & 2-35 UPDATED	21.08.23	CD	CD					
C	DRAINAGE PITS 2-13, 2-14, 2-34, & 2-35 UPDATED	18.08.23	CD	CD					
B	PITS 2-37 & 2-27A COVER UPDATED	14.06.23	CD	NM					
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					

DESIGNED	DATE	DRAWN	CHECKED	APPROVED
Y.SAVRIMOOTOO	22.08.2022	M.F. JAURIGUE	N.MARTENS	N.MARTENS

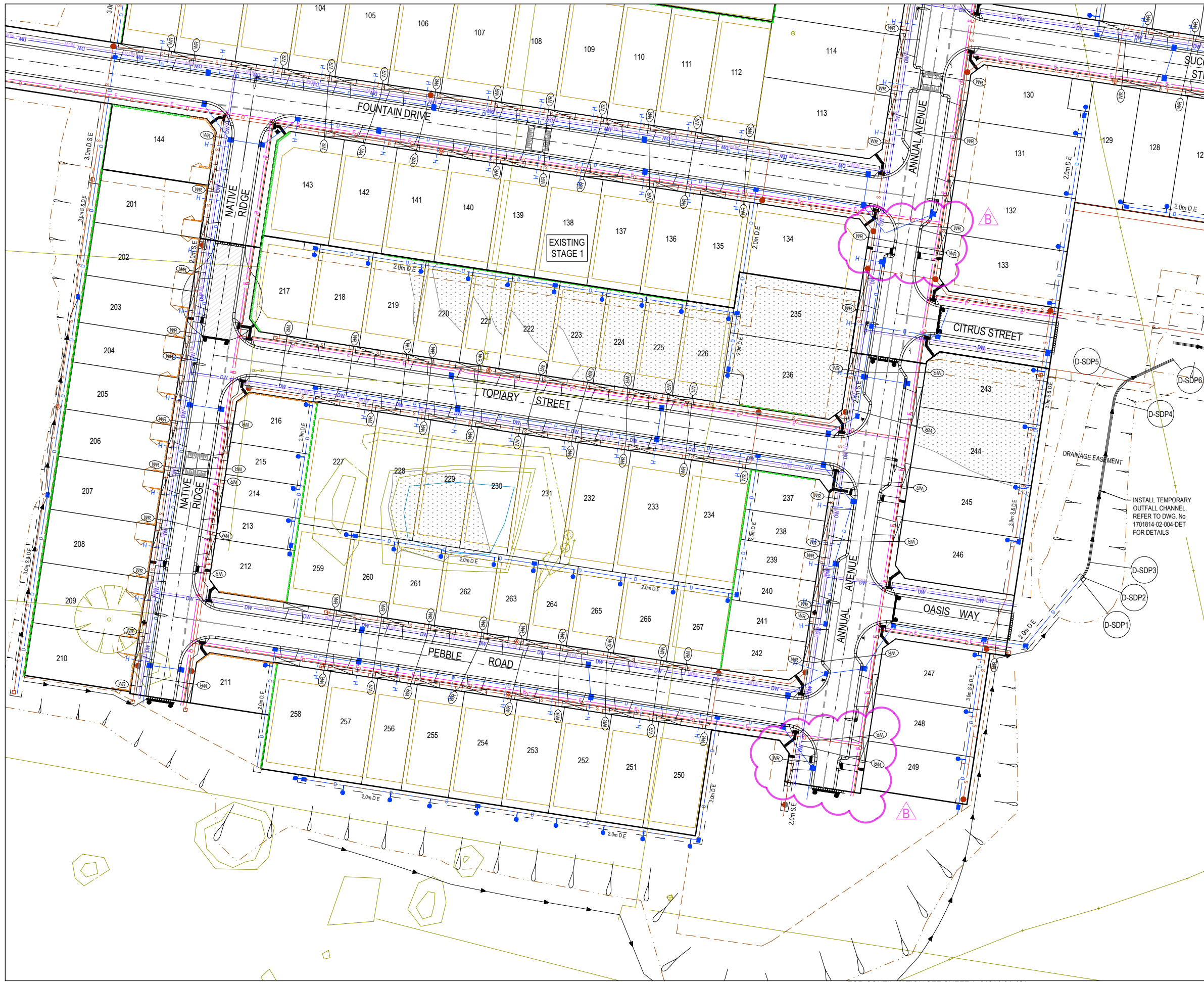
PROJECT	STAGE	DRAWING NO.	REV.
10 CANTY LANE, PAKENHAM	STAGE 2	404	D

Designed Y.SAVRIMOOTOO
Date 22.08.2022
Drawn M.F. JAURIGUE
Checked N.MARTENS
Date 30.11.22
Approved N.MARTENS
Reg. No. PE0009272
Date 01.10.2022
PS Number PS908410U

Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8688
www.beveridgewilliams.com.au

Project Details	Project Ref	Stage No	Drawing No	Rev
10 CANTY LANE, PAKENHAM STAGE 2 CARDINIA SHIRE COUNCIL	1701814	02	404	D

Sheet	Scale
36 of 38	NOT TO SCALE

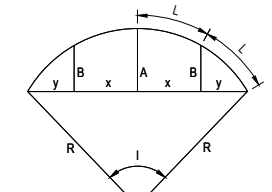


Alignment Swale

Point no	Easting	Northing	RL
D-SDP1	9972.030	4492.041	31.338
D-SDP2	9972.569	4492.691	31.312
D-SDP3	9974.315	4496.577	31.312
D-SDP4	9980.774	4538.552	31.058
D-SDP5	9985.350	4544.609	30.797
D-SDP6	9996.635	4549.776	

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
D-SDP2 - D-SDP3	30.887	8.000	4.313	0.289	0.216	1.075	1.055	1.078	31.325
D-SDP4 - D-SDP5	56.653	8.000	7.910	0.958	0.715	1.957	1.838	1.978	30.956

INSTALL TEMPORARY
OUTFALL CHANNEL.
REFER TO DWG. No
1701814-02-004-DET
FOR DETAILS



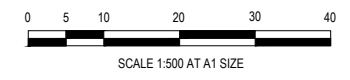
LIP PROFILE SETOUT

FOR CONSTRUCTION

FOR CONTINUATION SEE SHEET 1701814-01-421

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
B	GAS REMOVED, PBAY REDUCED, PRAM CROSSINGS AMENDED	21.08.23	CD	NM					
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					



Designed Y.SAVRIMOOTOO
Date 22.08.2022
Drawn M.F. JAURIGUE
Approved N.MARTENS
Date 01.10.2022
PS Number PS908410U

BW Beveridge Williams
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
10 CANTY LANE, PAKENHAM
STAGE 2
CARDINIA SHIRE COUNCIL
Drawing Title
OUTFALL OPEN DRIAN DETAILS

Sheet 37 of 38
Scale
1:500 @ A1
Project Ref
1701814
Stage No
02
Drawing No
420
Rev
B

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	01.06.23	CD	NM					

Designed Y.SAVRIMOOTOO
 Date 22.08.2022
 Drawn M.F.JAURIGUE
 Checked N.MARTENS
 Date 30.11.22
 Approved N.MARTENS
 Reg. No. PE00062792
 Date 01.10.2022
 PS Number PS908410U



Beveridge Williams
 Development & Infrastructure Consultants

1 Glenferrie Road
 Malvern VIC 3144
 ph: 03 9524 8888
 www.beveridgewilliams.com.au

Project Details
 10 CANTY LANE, PAKENHAM
 STAGE 2
 CARDINIA SHIRE COUNCIL

Drawing Title
 PLAN OF SUBDIVISION

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Scale NOT TO SCALE	
Project Ref 1701814	Stage No 02
Drawing No 450	Rev A