

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 Worksafe Victoria - Health & Safety division with respect to trenching operations. Details of the contractors occupational health & safety procedures must be lodged with the superintendent prior to commencement of works.
- 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 7251/08/203) 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. A temporary fence shall be erected & maintained around existing trees, nominated to be retained, at all times during construction.
- A7. 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 contractors construction supervisor must give notice in writing of such proposals to Worksafe Victoria in accordance with Part 5.1, Division 4 of the Occupational Health & Safety regulations (2017) & undertake safety precautions in trenching operations in accordance with Worksafe Compliance Code - Excavations Edition 2, December 2019.
- 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-instatement at the contractors 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 EDMC 202) to be placed behind all kerb & channel & buffer pits & 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 & 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.

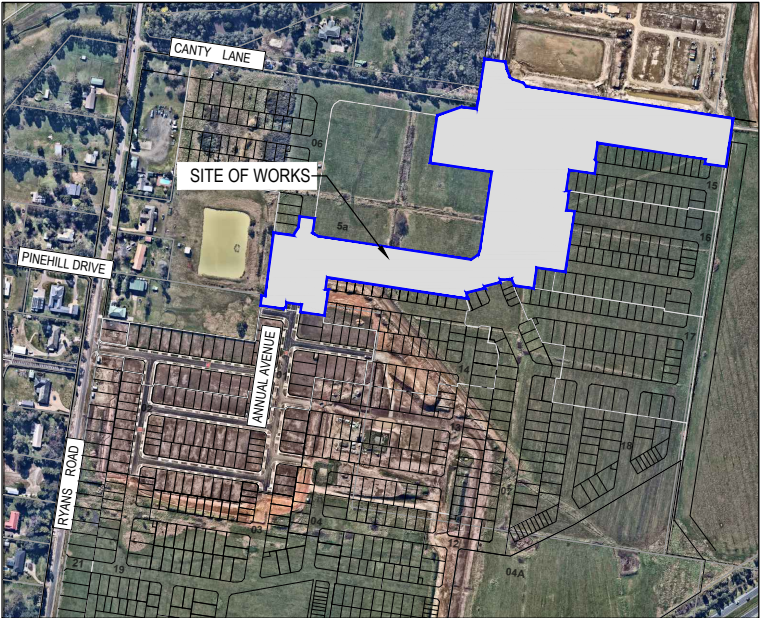
- C0. The water conduit offset from the lot boundary is given on the water reticulation plan. The contractor must construct conduits to accord with the given offset & ensure that the concreter marks the kerb & footpath exactly above the conduit.
- C9. Irrigation conduits are to be DN100 DWV PVC installed 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 pram crossings & pedestrian cross points in accordance with AS1428.4.1: 2009 & 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 grates for pits are to be Class D, to comply with AS3996 - 2019 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 bandage 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.



SITE PLAN

NOT TO SCALE

MELWAY REF: 318 B7

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Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	COVER SHEET

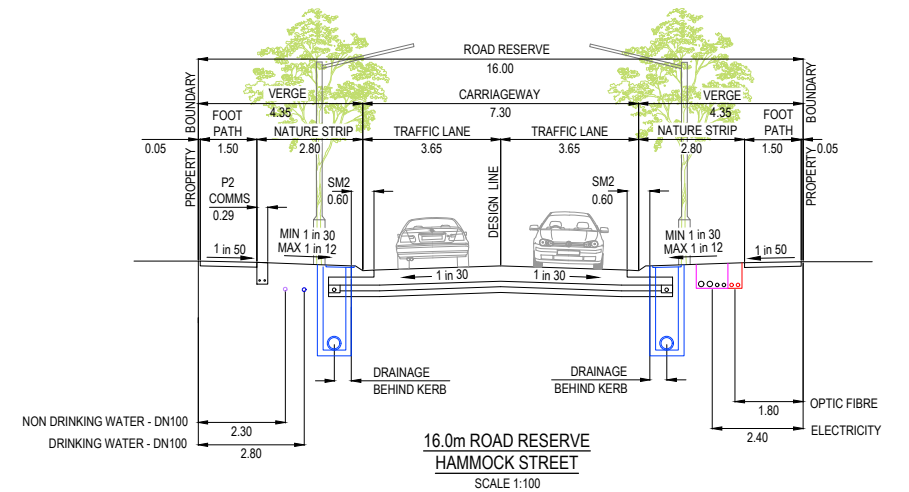
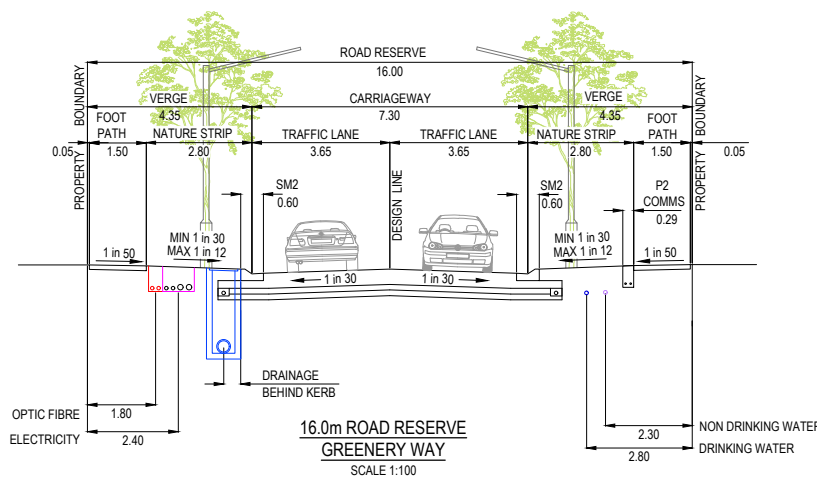
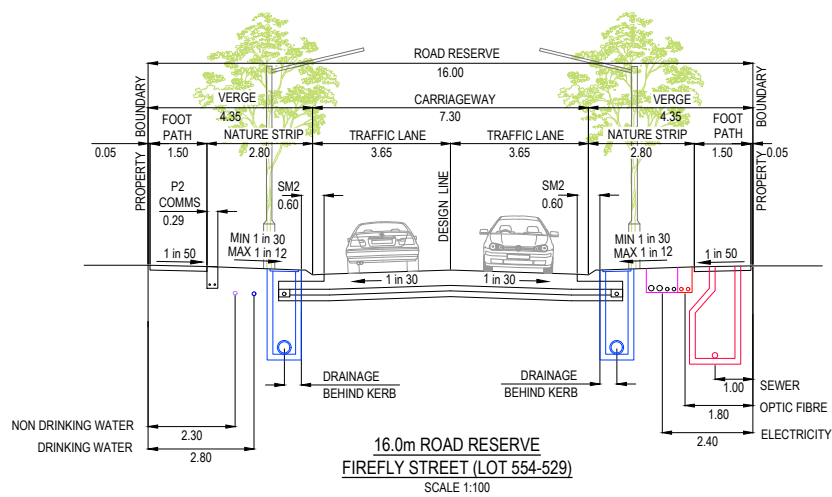
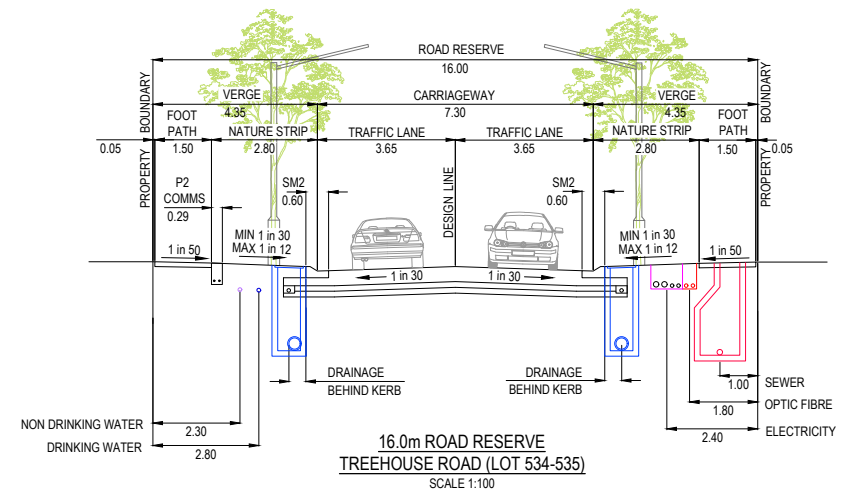
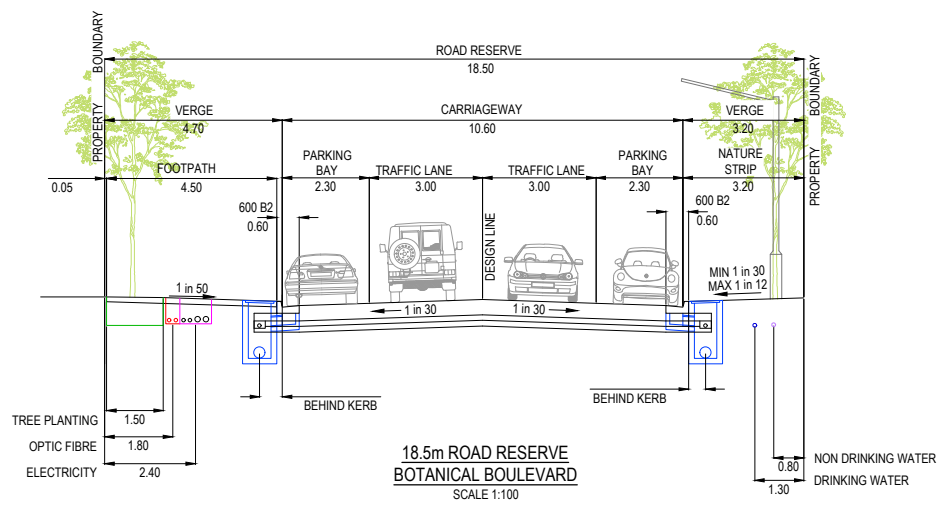
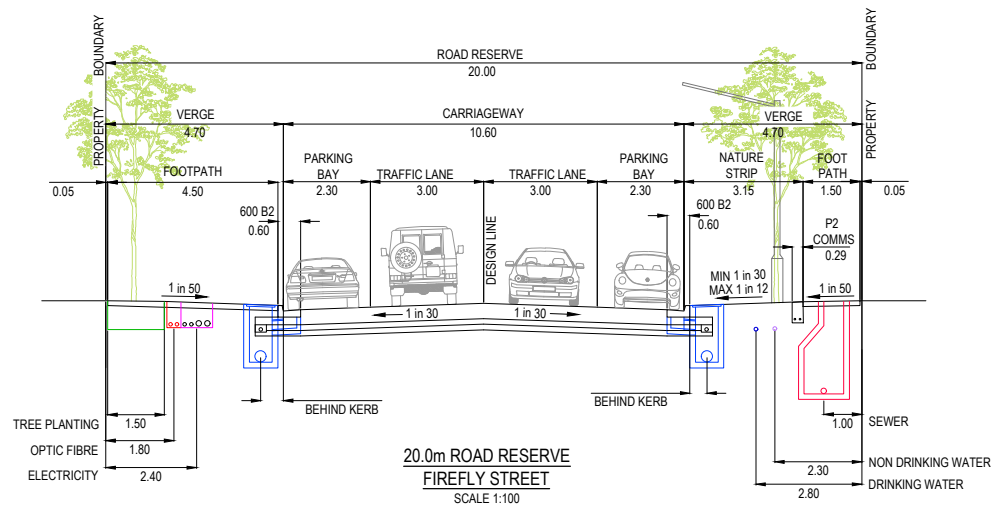
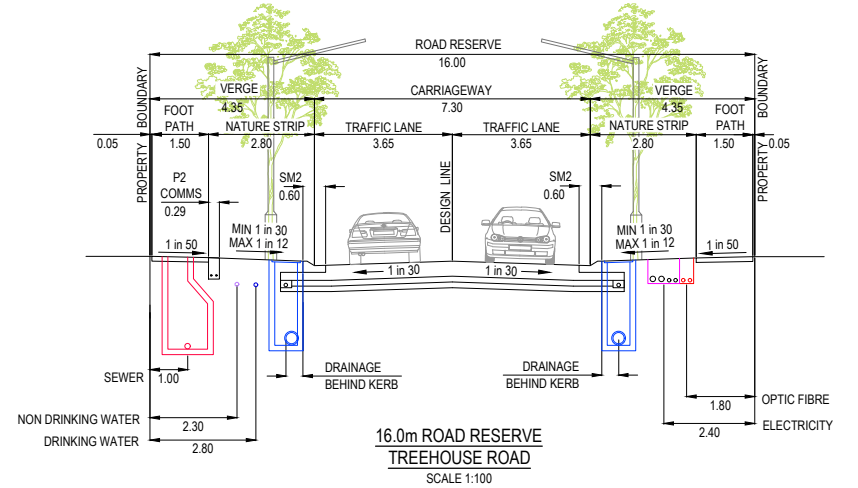
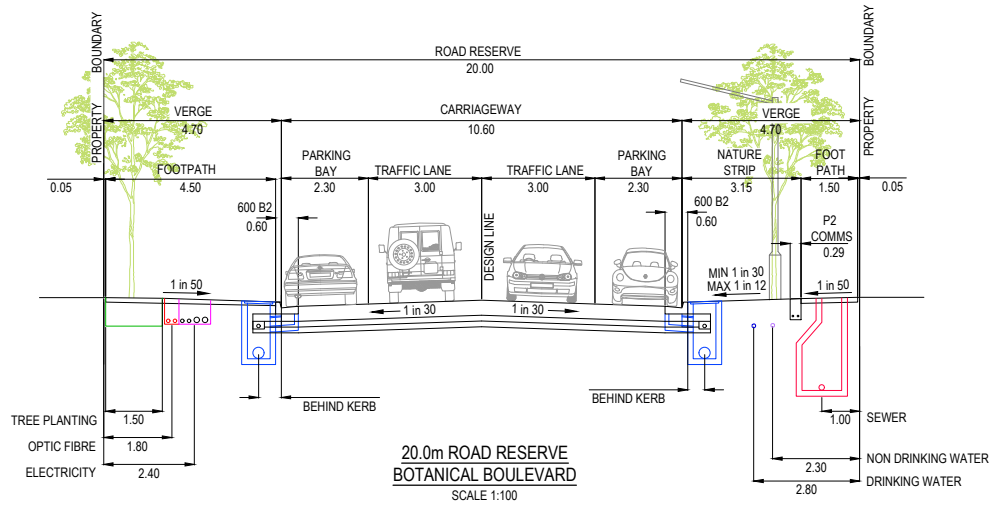
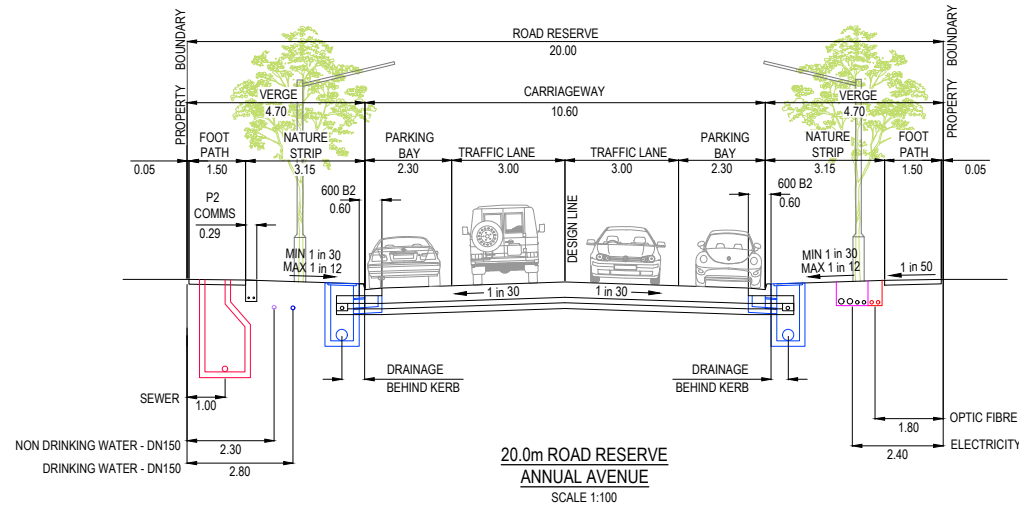
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Project Ref	Stage No	Drawing No	Rev
1701814	05	001	P4



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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
P3	SERVICE OFFSETS UPDATED ON GALAH WALK AND CUBBY WALK	07.10.25	HW	CD					
P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					

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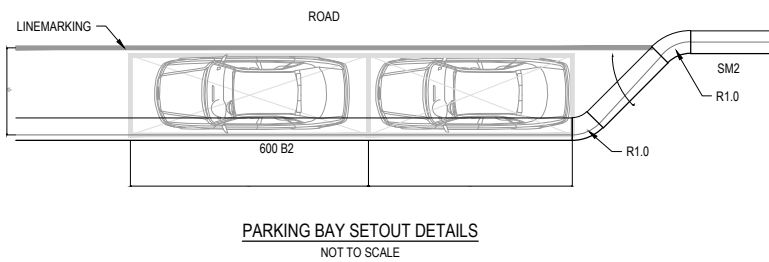
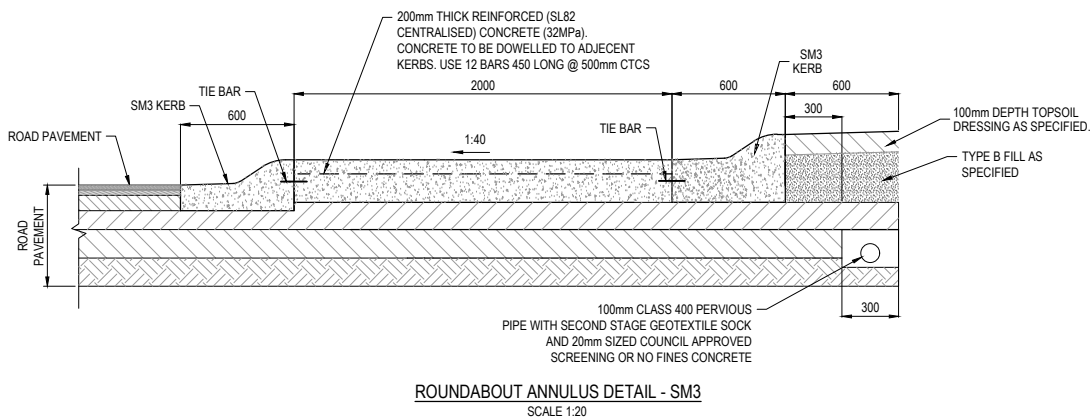
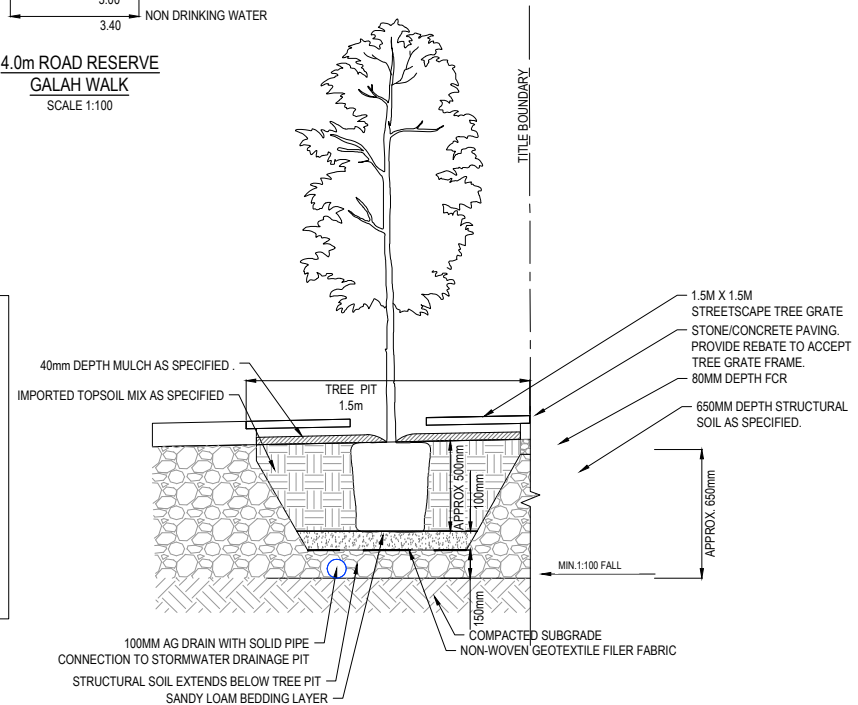
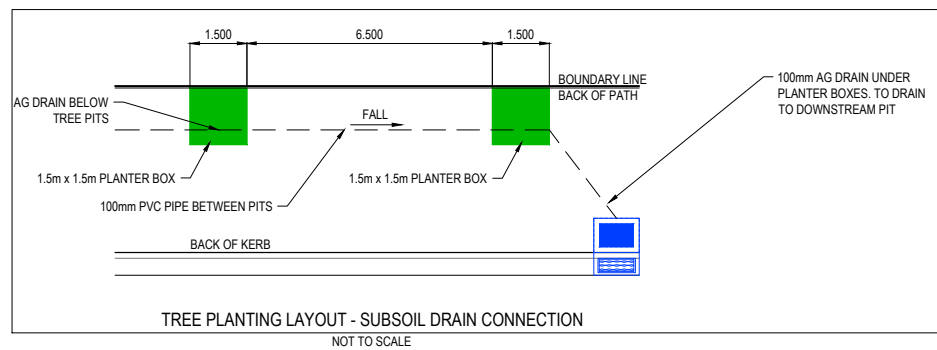
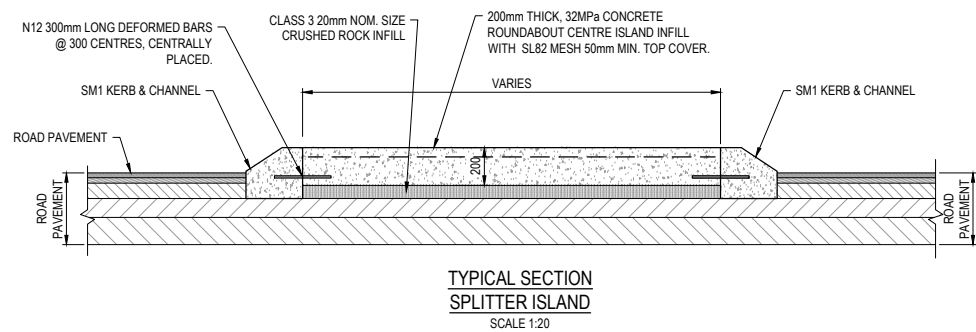
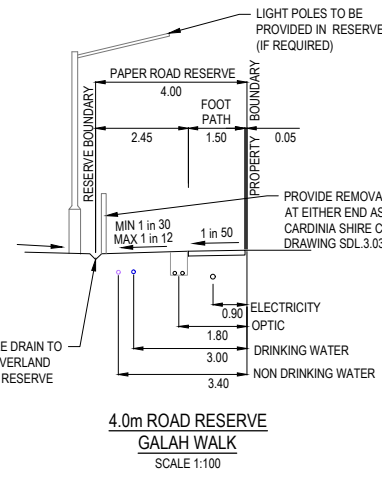
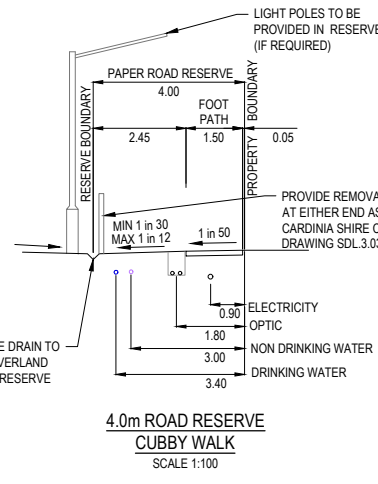
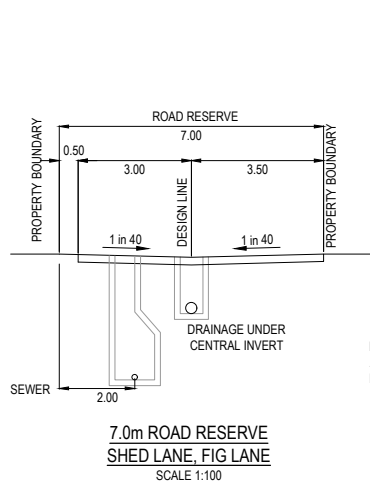
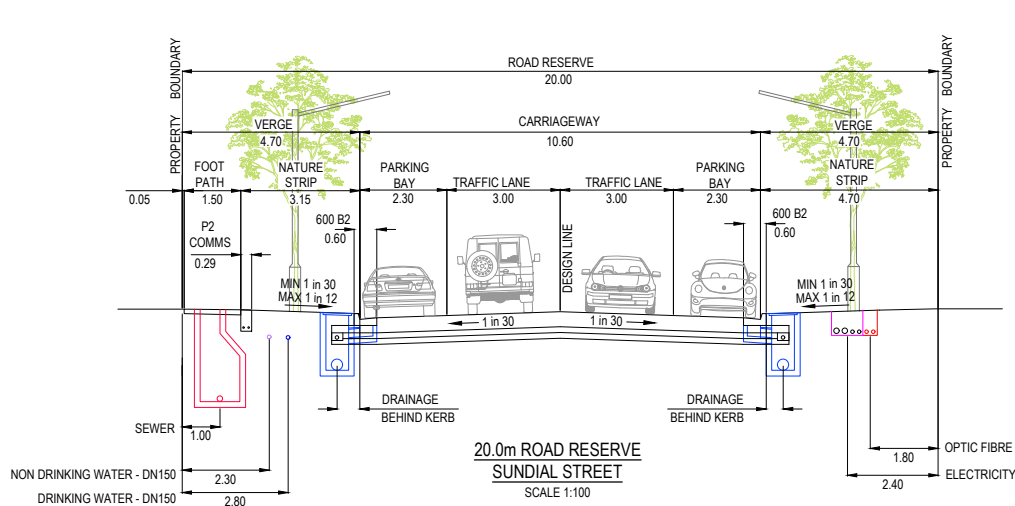
Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
TYPICAL ROAD CROSS SECTIONS

Sheet 02 of 76

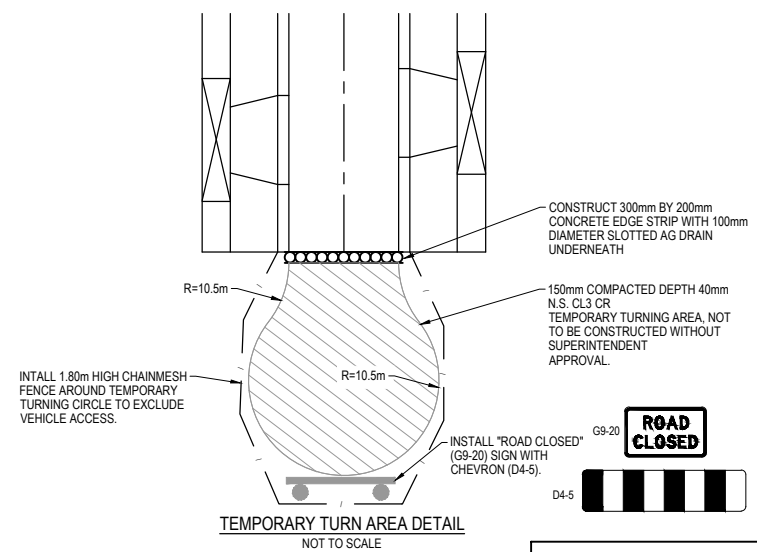
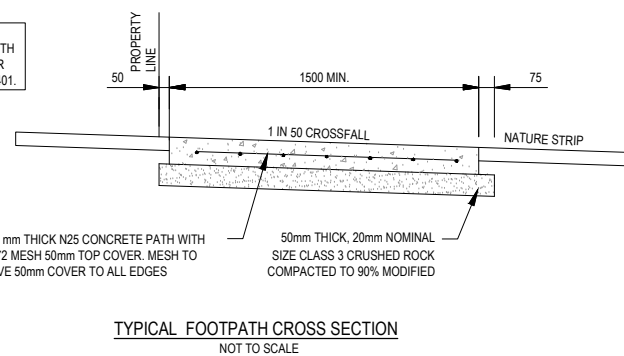
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Project Ref	Stage No	Drawing No	Rev
1701814	05	002	P3

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NOTE:
FOOTPATHS AND SHARED PATH
TO BE CONSTRUCTED AS PER
STANDARD DRAWING EDCM 401.



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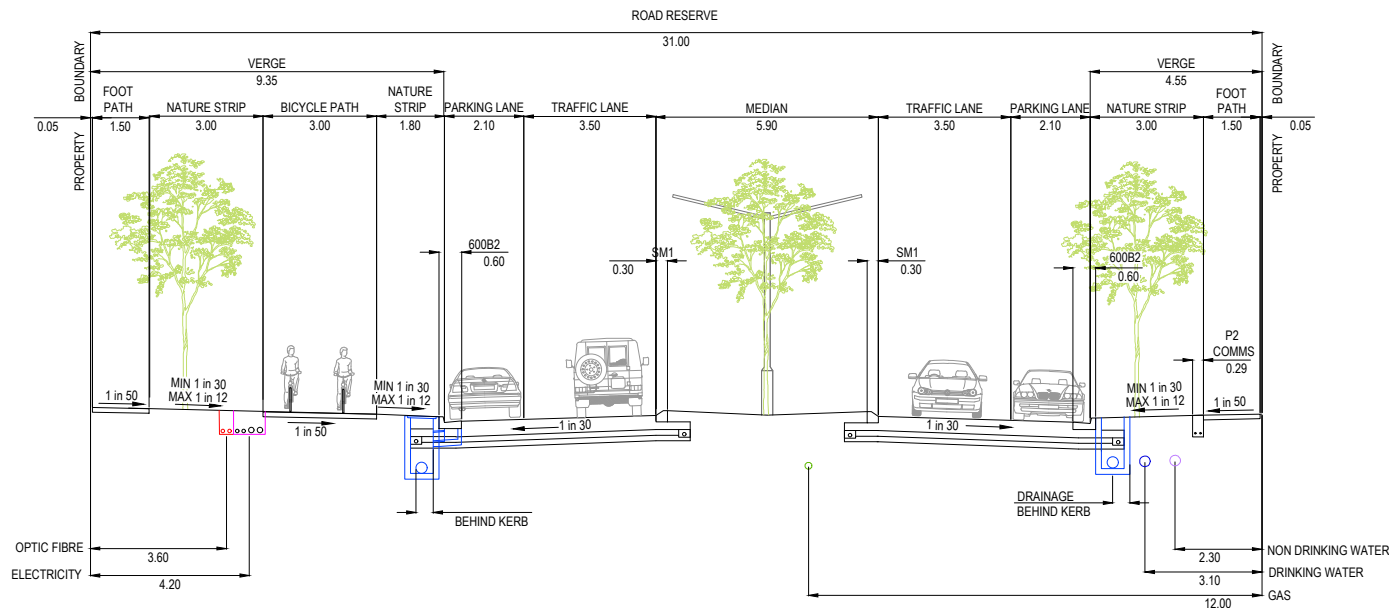
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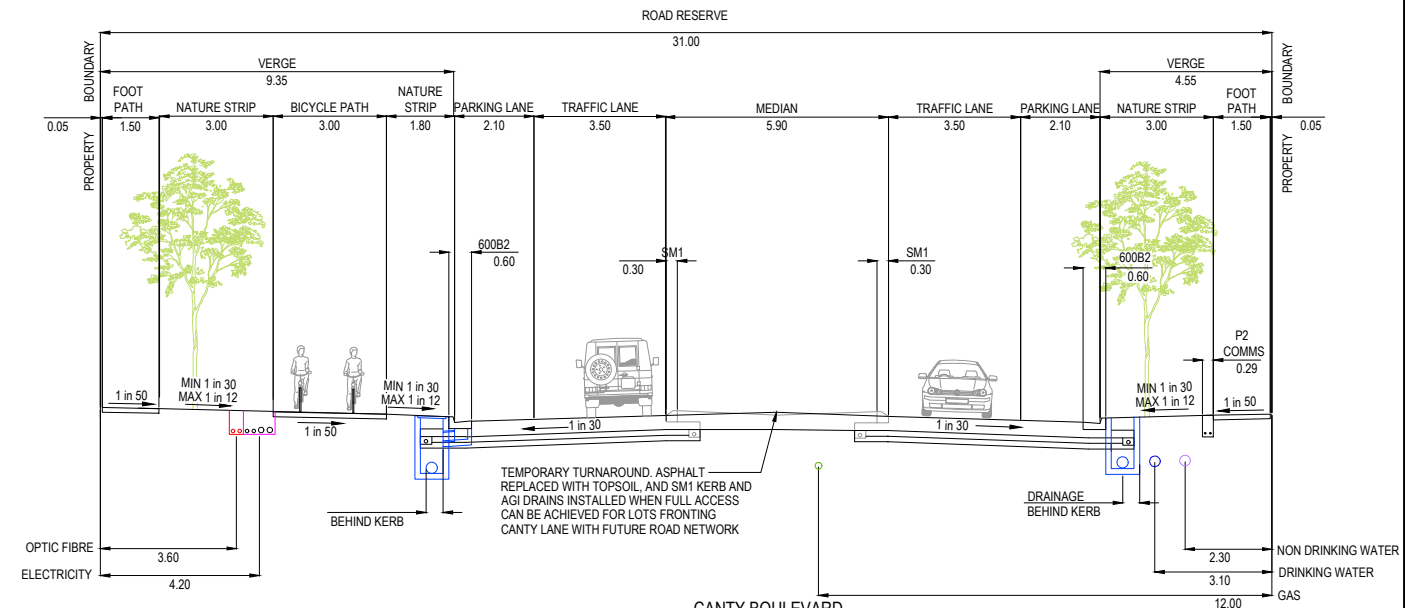
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Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	TYPICAL ROAD CROSS SECTIONS & GENERAL DETAILS (SHEET 1 OF 2)

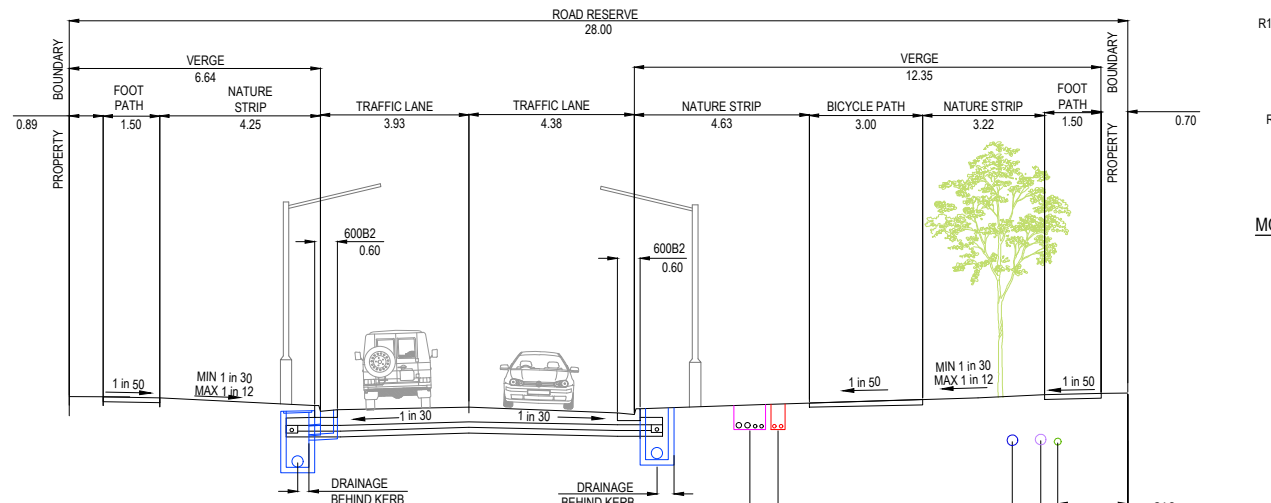
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Scale	AS SHOWN
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Stage No	05
Drawing No	003
Rev	P3



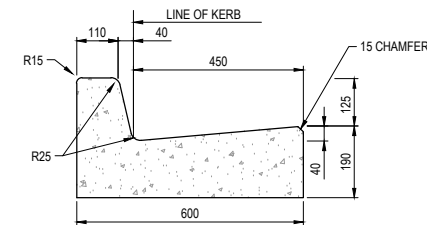
**CANTY BOULEVARD
(EAST OF ROUNDABOUT)
31m ROAD RESERVE**
SCALE 1:100



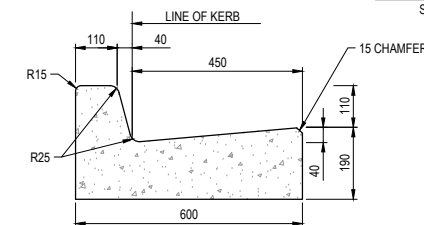
**CANTY BOULEVARD
(TEMPORARY TURNING AREA)
31m ROAD RESERVE**
SCALE 1:100



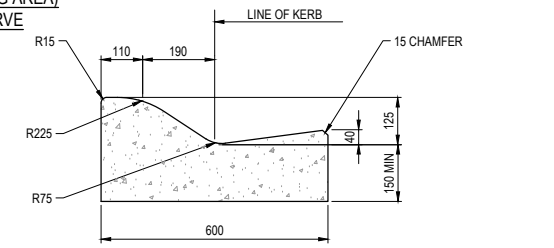
**EXISTING BOTANICAL BOULEVARD
(NORTH OF ROUNDABOUT)
28m ROAD RESERVE**
SCALE 1:100



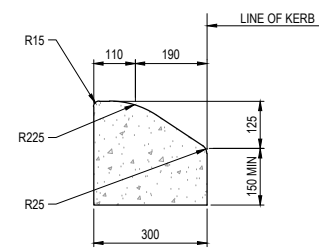
MODIFIED 600 WIDE BARRIER KERB (600 B2) DETAIL
SCALE 1:10



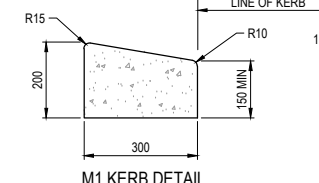
600 WIDE BARRIER KERB (600 B2) DETAIL
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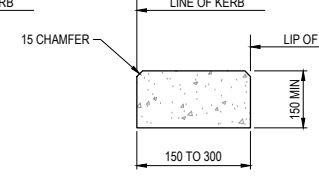
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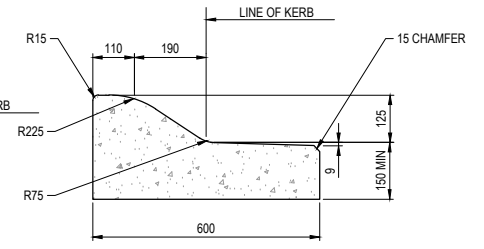
SM1 KERB DETAIL
SCALE 1:10



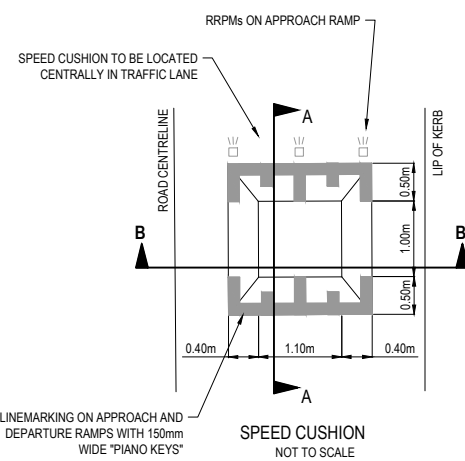
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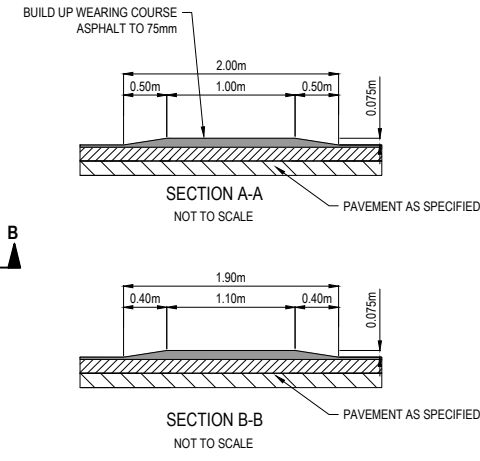
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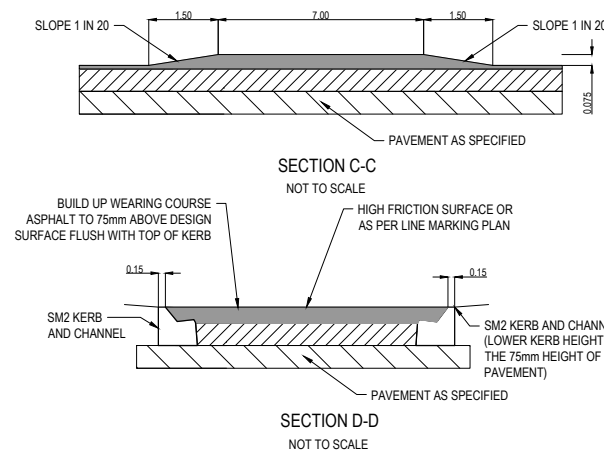
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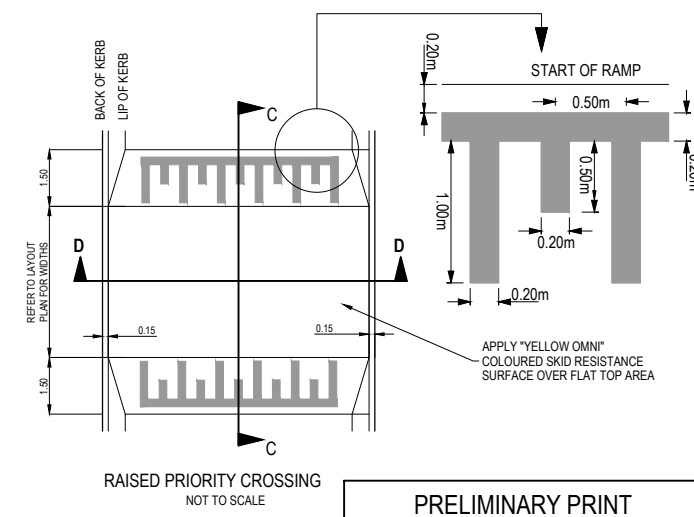
SPEED CUSHION
NOT TO SCALE



SECTION B-B
NOT TO SCALE



SECTION D-D
NOT TO SCALE



RAISED PRIORITY CROSSING
NOT TO SCALE

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P3	SERVICE OFFSETS UPDATED ON GALAH WALK AND CUBBY WALK	07.10.25	HW	CD					
P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					

Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

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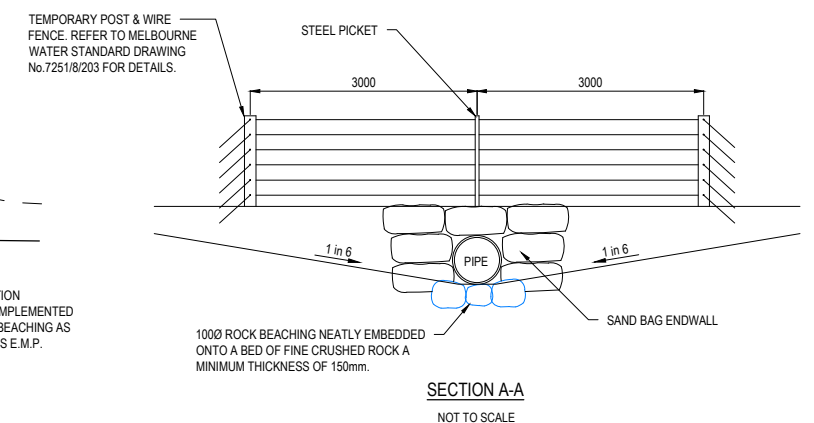
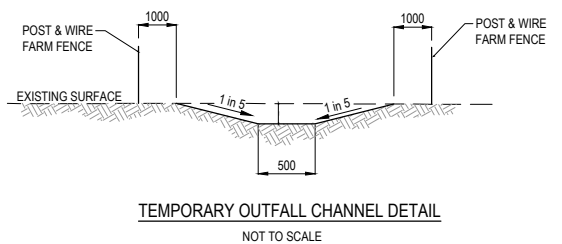
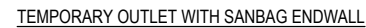
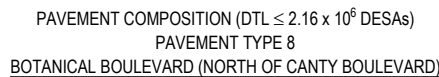
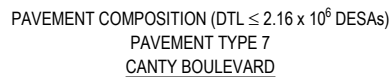
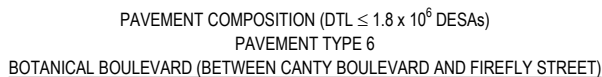
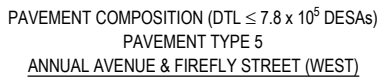
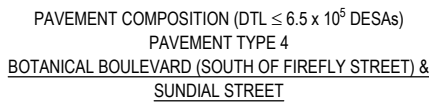
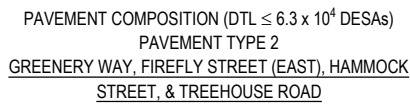
Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
TYPICAL ROAD CROSS SECTIONS
& GENERAL DETAILS
(SHEET 2 OF 2)

Sheet 04 of 76

Scale
AS SHOWN

Project Ref Stage No Drawing No Rev
1701814 05 004 P3

G:\m\jobs\Jobs Data\1701814 - 10 Canty Lane, Pakenham\Em\Stage 5\Drawings\1701814-05-002-DET.dwg



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Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0012526
Date	28.08.25
PS Number	PS931746C



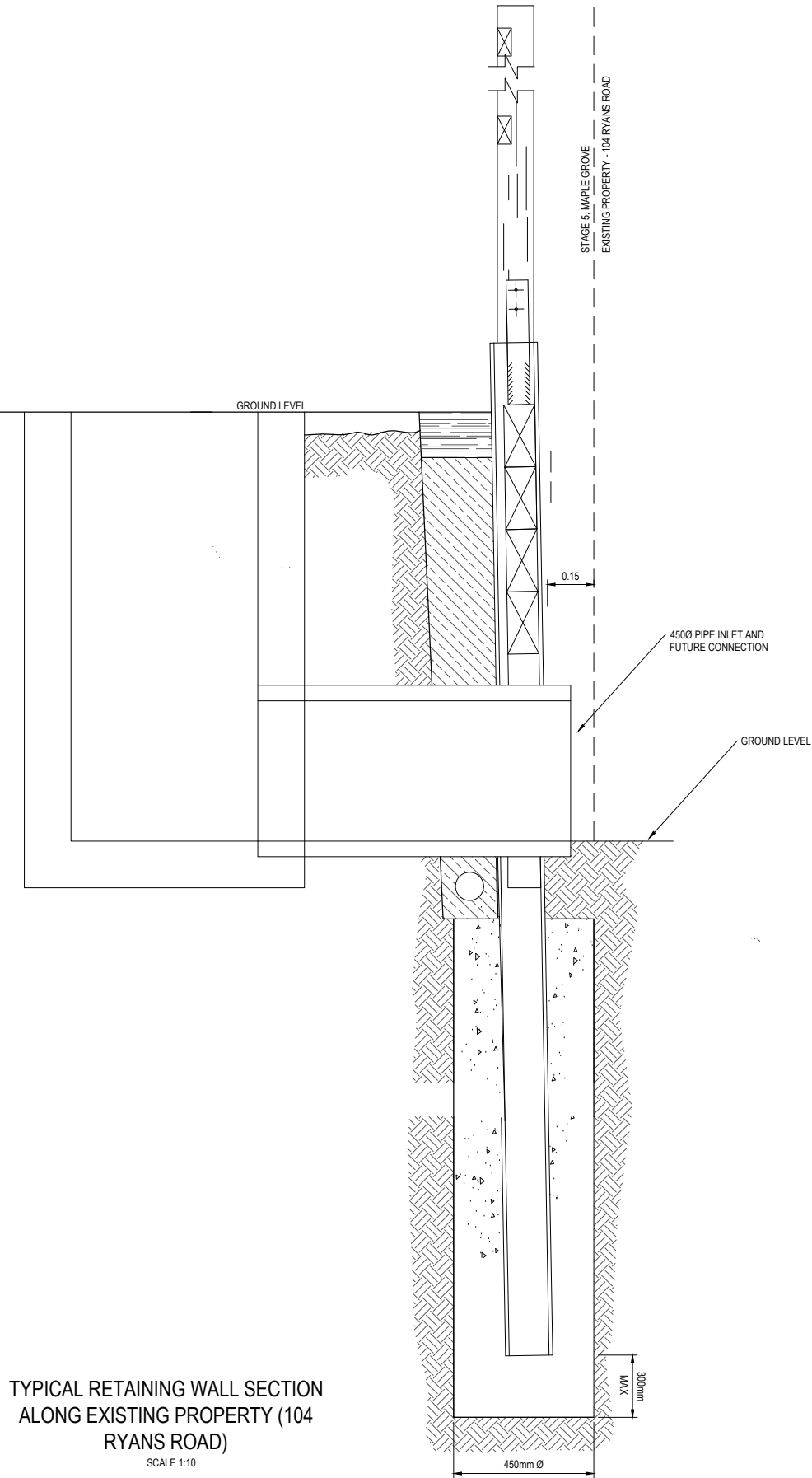
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Drawing Title	PAVEMENT MAKEUP & GENERAL DETAILS

Sheet 05 of 76

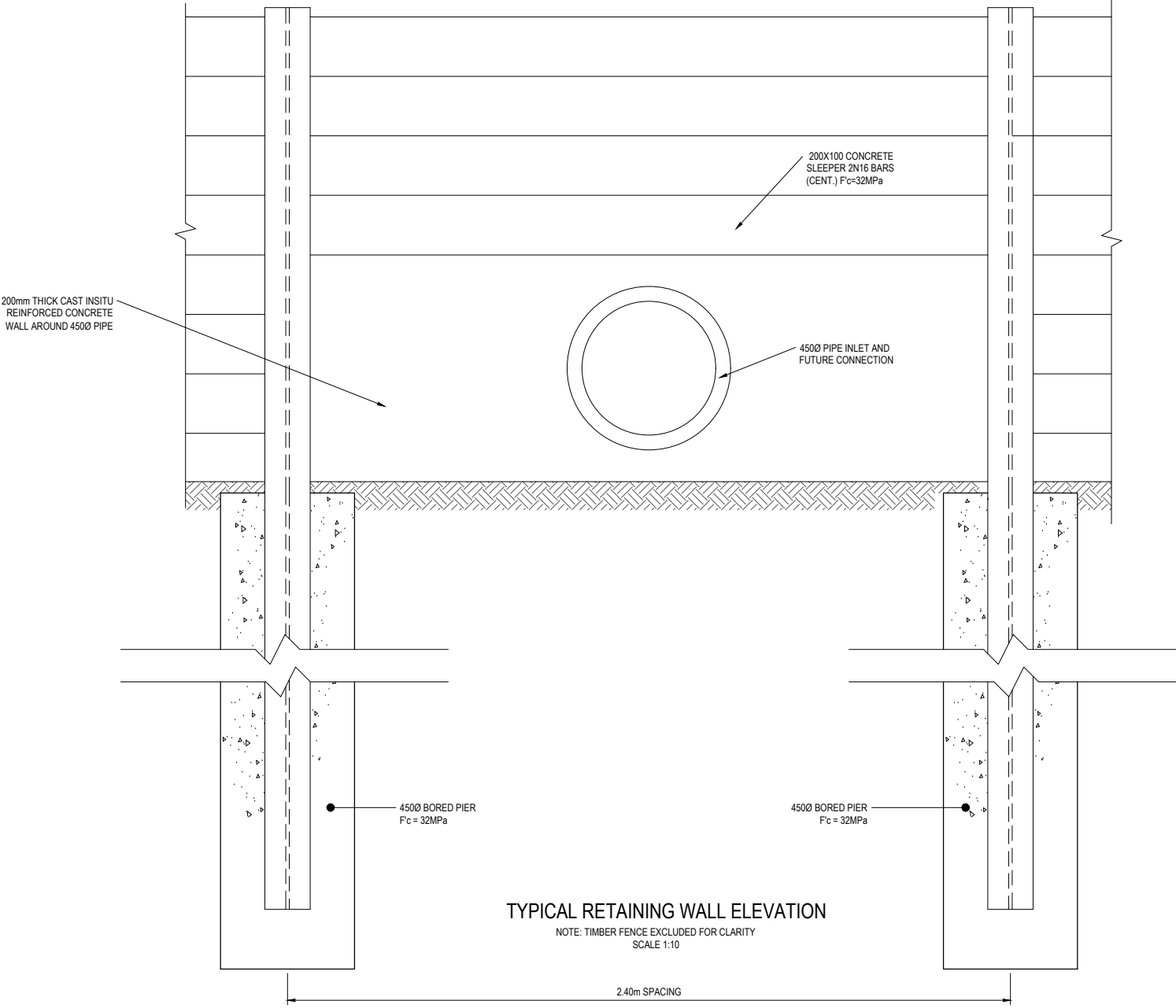
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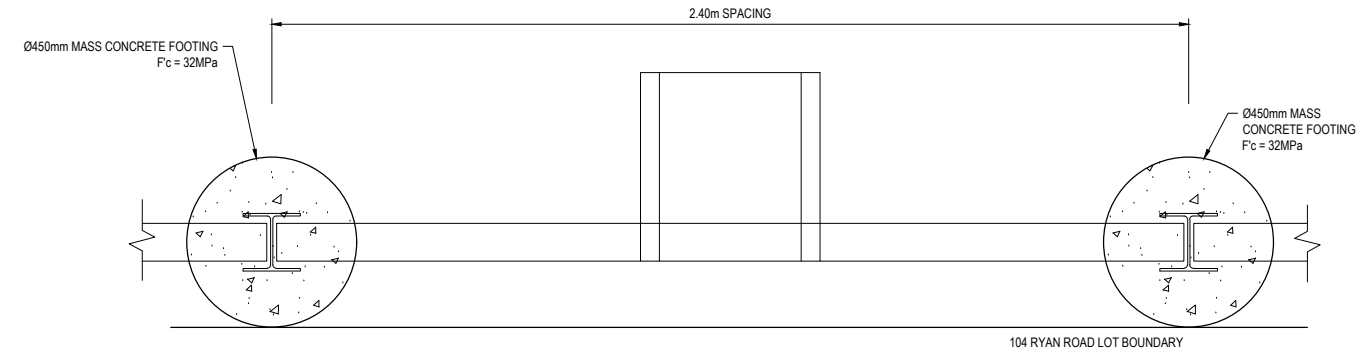
Project Ref	Stage No	Drawing No	Rev
1701814	05	005	P3



TYPICAL RETAINING WALL SECTION
ALONG EXISTING PROPERTY (104
RYANS ROAD)
SCALE 1:10



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



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

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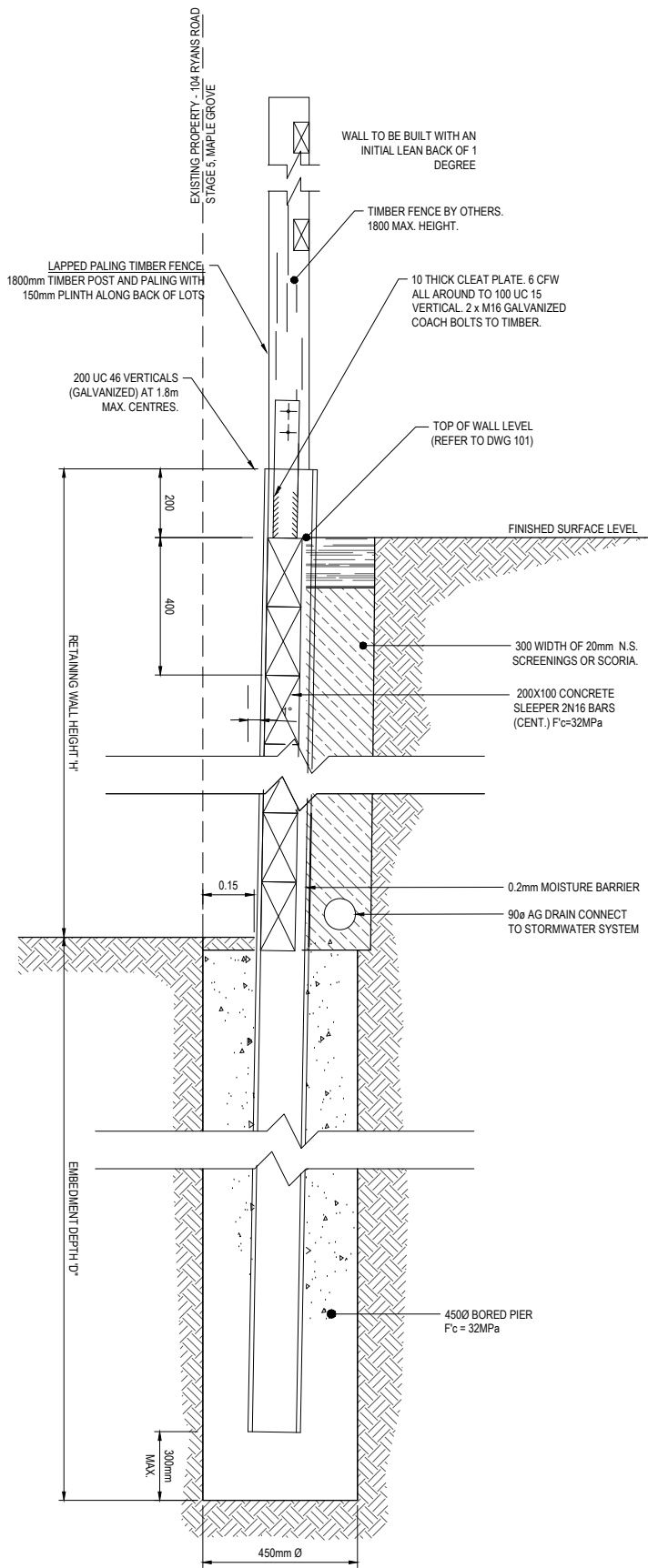
Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
RETAINING WALL DETAILS
(SHEET 1 OF 2)

Sheet 06 of 76

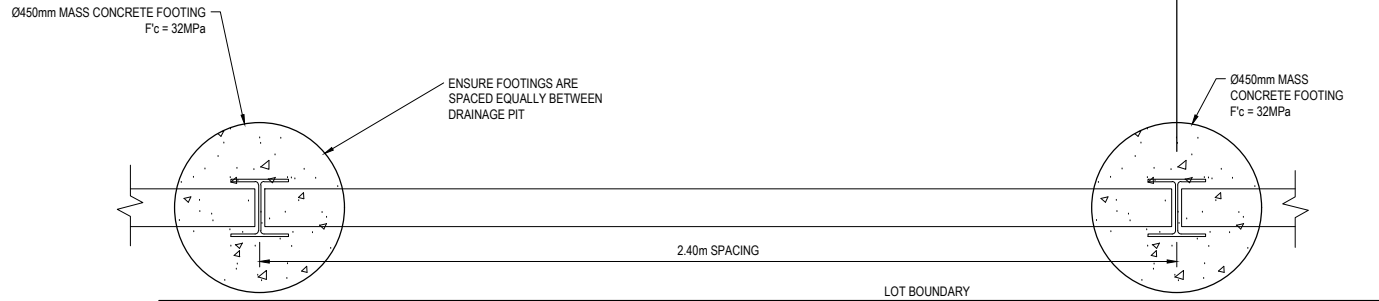
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Project Ref	Stage No	Drawing No	Rev
1701814	05	006	P3

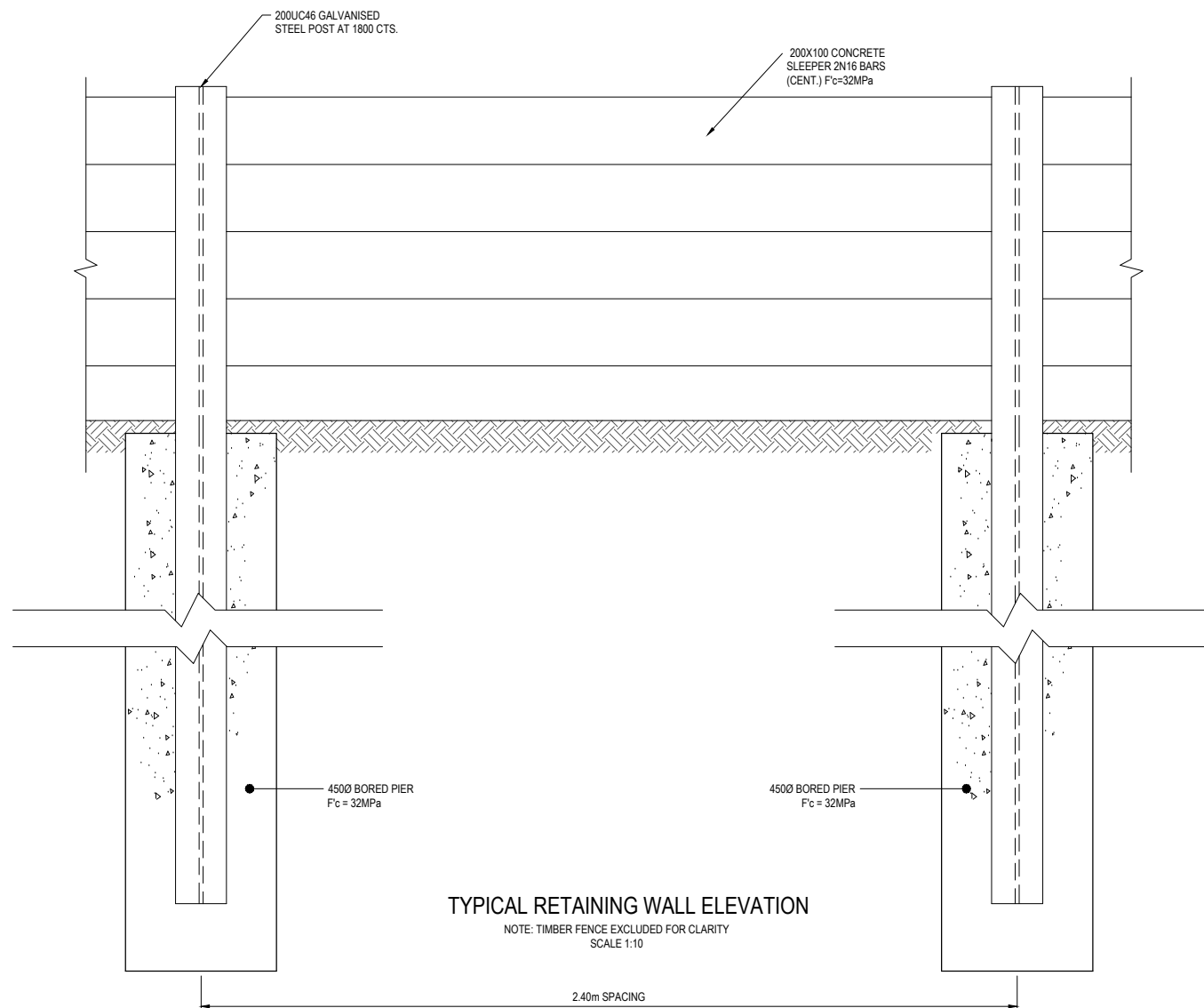
REFER TO RETAINING
WALL STRUCTURAL
DRAWINGS (3734) FOR
FURTHER INFORMATION



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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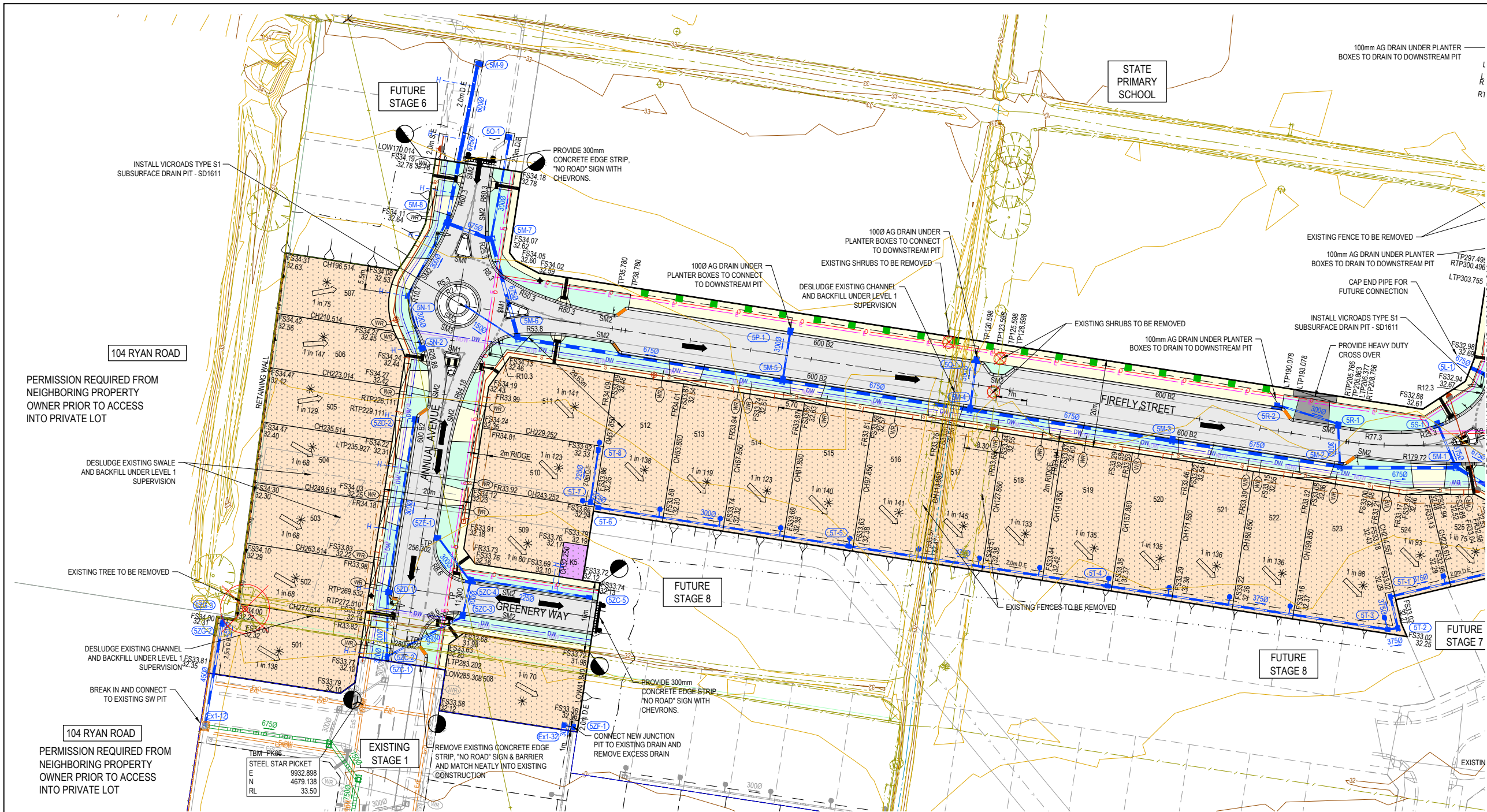
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Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	RETAINING WALL DETAILS (SHEET 2 OF 2)

Sheet 07 of 76

Scale
AS SHOWN

Project Ref	Stage No	Drawing No	Rev
1701814	05	007	P3



LEGEND - LAYOUT PLAN

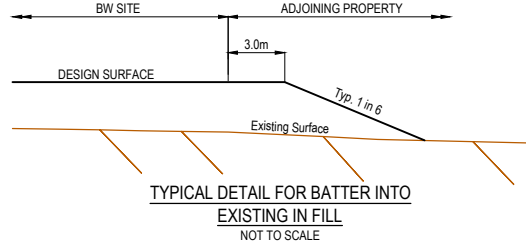
- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- RECYCLED WATER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

HATCH LEGEND

- PAVEMENT TREATMENT
- STRUCTURAL FILL > 200mm DEEP
- EX. STRUCTURAL FILL > 200mm DEEP
- LOT HATCHING
- ROAD PAVEMENT
- FOOTPATH
- DRIVEWAY
- INDUSTRIAL STRENGTH DRV / LANEWAYS
- NATURE STRIP
- RESERVES
- ELECTRICAL KIOSK
- DRAINAGE RESERVE
- MEDIAN DENSITY LOTS
- MAINTENANCE ACCESS TRACK
- DRY OUT AREA

Location	ND - Water		Water		Electricity		Telecommunication		Sewer		Street Trees		Gas		Ex.Branch Sewer	
	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	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	E & W	1.00	E/W	2.80/2.80	-	-	-	-
GREENERY WAY	S	2.30	S	2.80	N	2.40	N	1.80	-	N/S	N/S	2.80/2.80	-	-	-	-
FIREFLY STREET	S	2.30	S	2.80	N	2.40	N	1.80	S	1.00	N/S	0.75/2.80	-	-	-	-
FIREFLY STREET (LOT 554-529)	N	2.30	N	2.80	S	2.40	S	1.80	N & S	1.00	N/S	2.80/2.80	-	-	-	-
BOTANICAL BOULEVARD	E	2.30	E	2.80	W	2.40	W	1.80	E	1.00	E/W	2.80/0.75	-	-	-	-
BOTANICAL BOULEVARD (18.5m RESERVE)	E	0.80	E	1.30	W	2.40	W	1.80	-	-	W	0.75	-	-	-	-
TREEHOUSE ROAD	W	2.30	W	2.80	E	2.40	E	1.80	E & W	1.00	E/W	2.80/2.80	-	-	-	-
TREEHOUSE ROAD (LOT 534-535)	N	2.30	N	2.80	S	2.40	S	1.80	N	1.00	N/S	2.80/2.80	-	-	-	-
HAMMOCK STREET	N	2.30	N	2.80	S	2.40	S	1.80	-	-	N/S	2.80/2.80	-	-	-	-
SUNDIAL STREET	W	2.30	W	2.80	E	2.40	E	1.80	-	-	E/W	2.80/2.80	-	-	-	-
SHED LANE	-	-	-	-	-	-	-	-	N	2.00	-	-	-	-	-	-
FIG LANE	-	-	-	-	-	-	-	-	W	2.00	-	-	-	-	-	-
GALAH WALK	S	3.00	S	2.60	S	0.90	S	1.80	-	-	-	-	-	-	-	-
CUBBY WALK	E	3.00	E	2.50	E	0.90	E	1.80	-	-	-	-	-	-	-	-
CANTY BOULEVARD	S	2.30	S	3.10	S	12.50	N	4.20	N	3.60	S	2.80	S	12.00	N	3.00

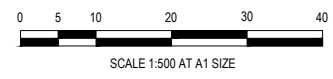
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			9.70	10.60	10.90	600B2	600B2	0.00	0.00
ANNUAL AVENUE	LOCAL	20.0	9.70	10.60	10.90	600B2	600B2	0.00	0.00
GREENERY WAY	LOCAL	16.0	7.00	7.60	8.20	SM2	SM2	4.35	4.35
FIREFLY STREET (WEST)	LOCAL	20.0	9.70	10.60	10.90	600B2	600B2	0.00	0.00
FIREFLY STREET (EAST)	LOCAL	16.0	7.00	7.60	8.20	SM2	SM2	0.00	0.00
BOTANICAL BOULEVARD	LOCAL	20.0	9.70	10.60	10.90	600B2	600B2	0.00	0.00
TREEHOUSE ROAD	LOCAL	16.0	7.00	7.60	8.20	SM2	SM2	4.35	4.35
HAMMOCK STREET	LOCAL	16.0	7.00	7.60	8.20	SM2	SM2	4.35	4.35
SUNDIAL STREET	LOCAL	20.0	9.70	10.60	10.90	600B2	600B2	4.70	4.70
SHED LANE	LOCAL	7.0	6.50	-	-	-	-	0.50	0.00
FIG LANE	LOCAL	7.0	6.50	-	-	-	-	0.50	0.00
CANTY BOULEVARD (WEST)	CONNECTOR	VARIES	6.25	7.00	7.45	600B2	SM2	VARIES	VAIES
CANTY BOULEVARD (EAST)	CONNECTOR	31.0	16.20	17.10	17.40	600B2	600B2	9.35	4.55



WARNING
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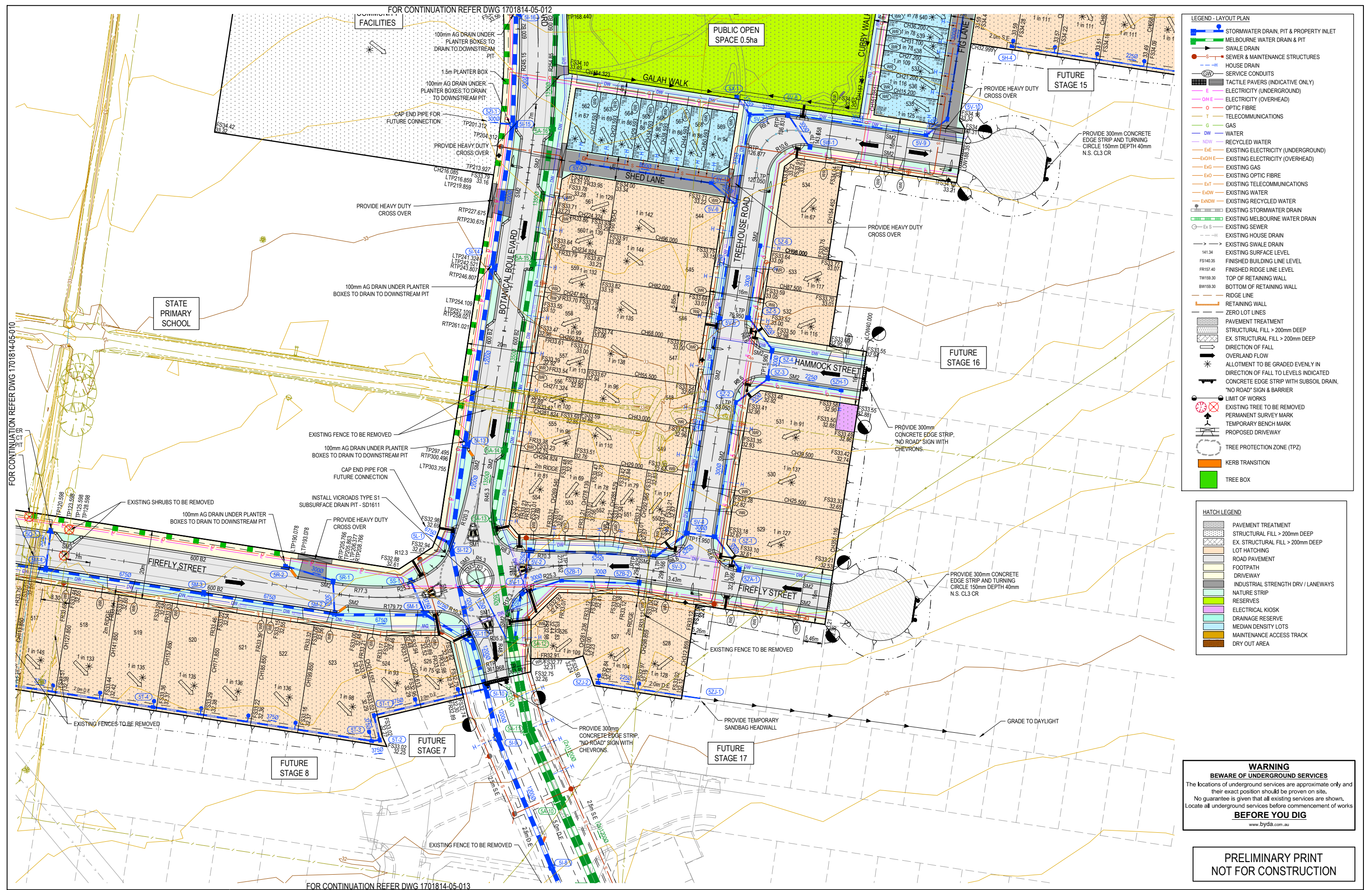


Designed: N.SMOLENAARS
Date: 28.08.25
Drawn: L.SUTHERLAND
Checked: C.DAWSON
Date: 28.08.25
Approved: C.DAWSON
Reg. No.: PE001236
Date: 28.08.25
PS Number: PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
LAYOUT PLAN
(SHEET 1 OF 7)

Sheet 08 of 76
Scale 1:500 @ A1
Project Ref 1701814 Stage No 05 Drawing No 010 Rev P3

[illegible]

Designated Date	N.SMOLENAARS 28.08.25
Drawn	L.SUTHERLAND
Checked Date	C.DAWSON 28.08.25
Approved Reg. No.	C.DAWSON PE0012526
Date	28.08.25
PS Number	PS931746C

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Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	LAYOUT PLAN (SHEET 2 OF 7)

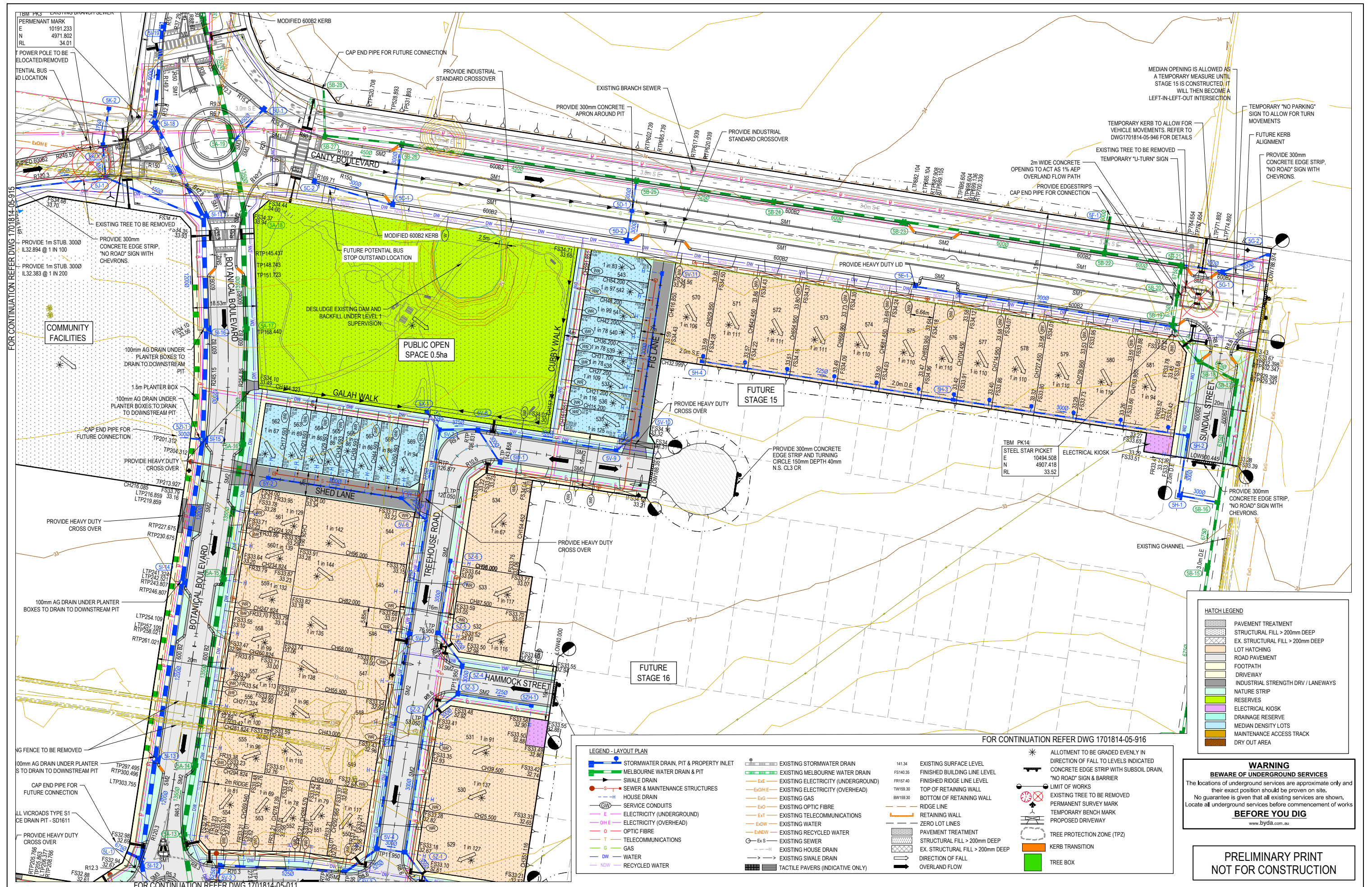
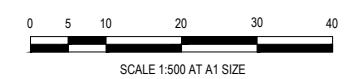
Sheet 09 of 76

Scale
1:500 @ A1



Project Ref	Stage No	Drawing No	Rev
1701814	05	011	P3

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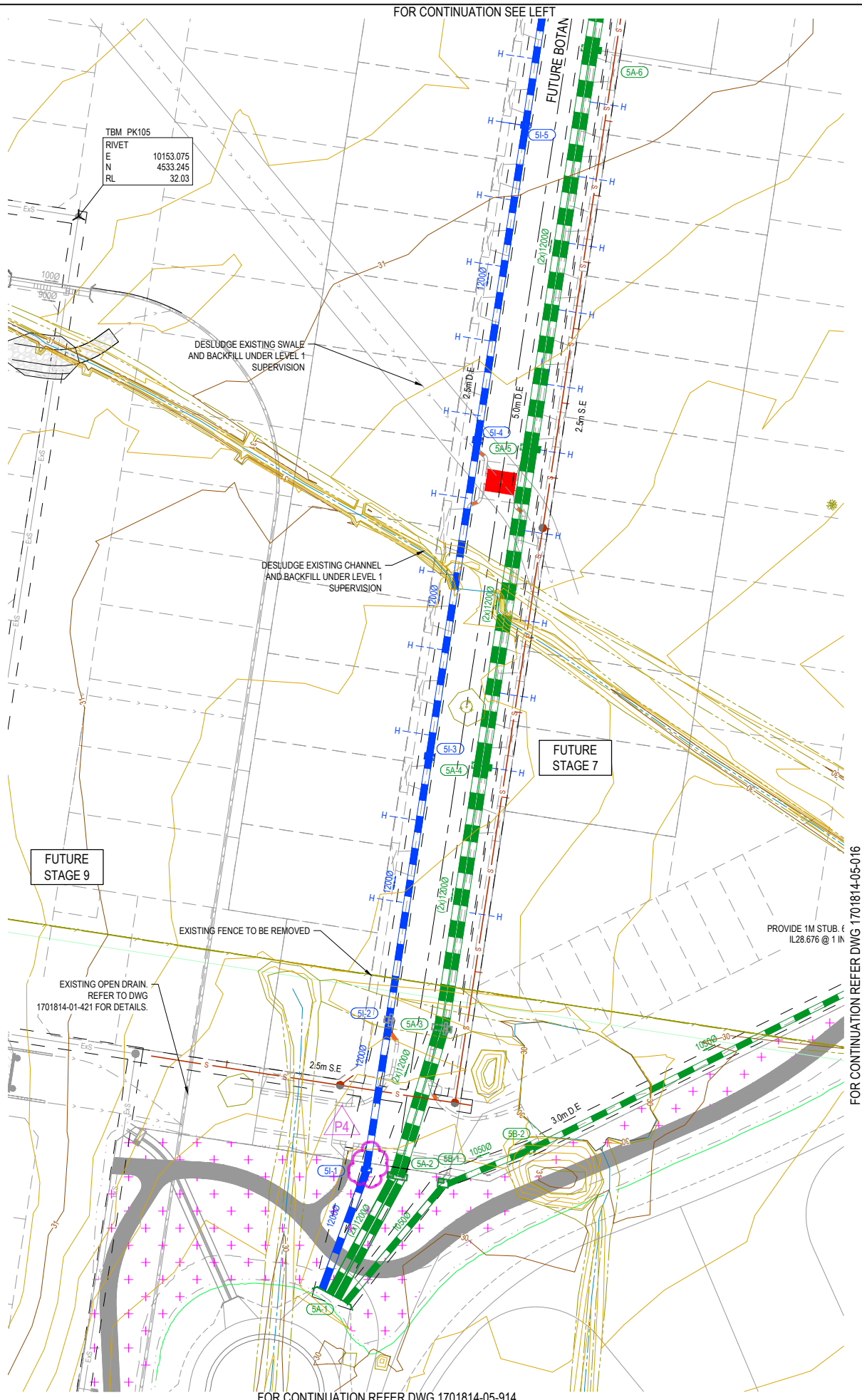
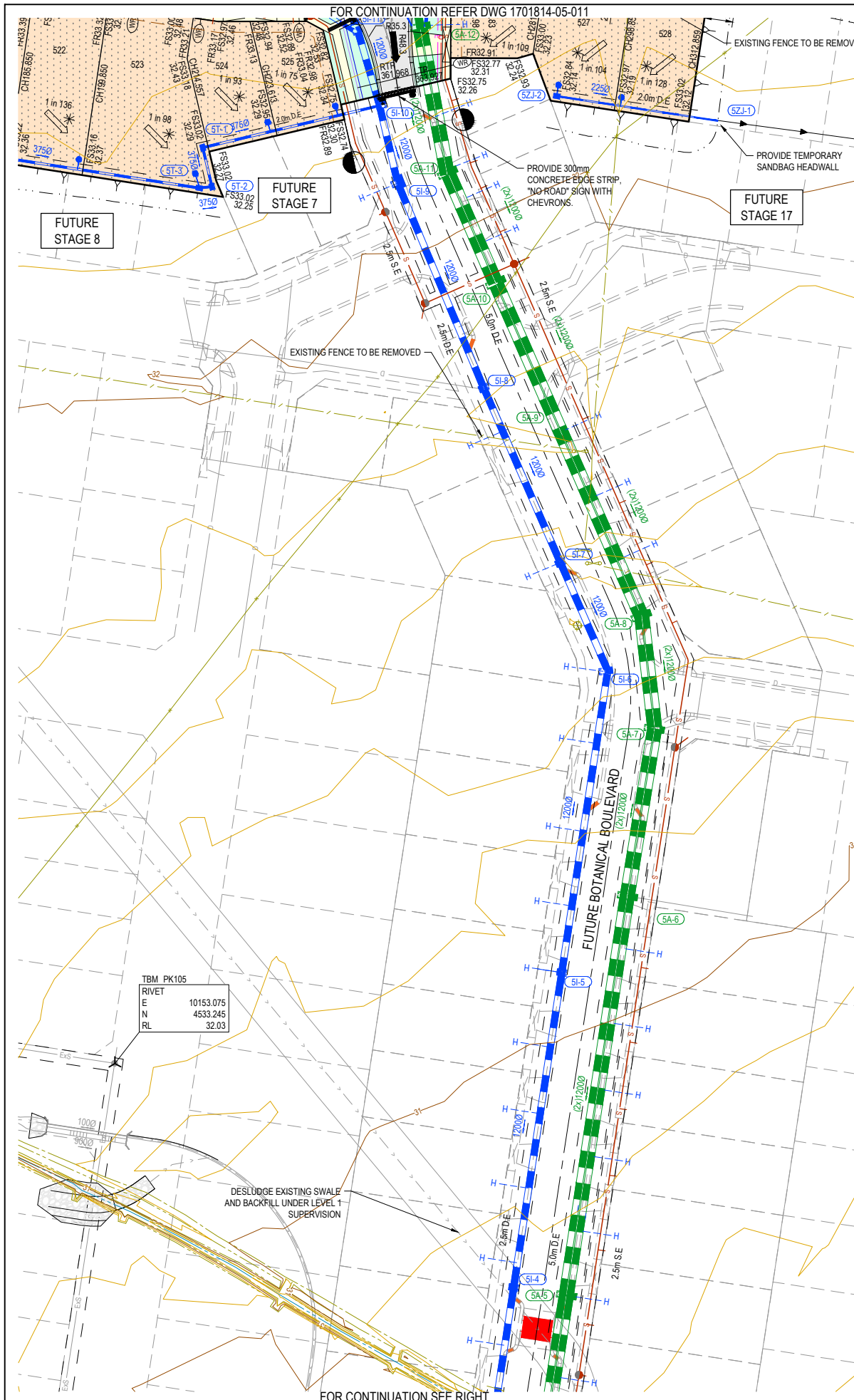
Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	LAYOUT PLAN (SHEET 3 OF 7)

Sheet 10 of 76

Scale
1:500 @ A1



Project Ref	Stage No	Drawing No	Rev
1701814	05	012	P3



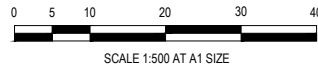
LEGEND - LAYOUT PLAN	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MELBOURNE WATER DRAIN & PIT
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS (INDICATIVE ONLY)
	ELECTRICITY (UNDERGROUND)
	ELECTRICITY (OVERHEAD)
	OPTIC FIBRE
	TELECOMMUNICATIONS
	GAS
	WATER
	RECYCLED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

HATCH LEGEND	
	PAVEMENT TREATMENT
	STRUCTURAL FILL > 200mm DEEP
	EX. STRUCTURAL FILL > 200mm DEEP
	LOT HATCHING
	ROAD PAVEMENT
	FOOTPATH
	DRIVEWAY
	INDUSTRIAL STRENGTH DRV / LANEWAYS
	NATURE STRIP
	RESERVES
	ELECTRICAL KIOSK
	DRAINAGE RESERVE
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P3	SERVICE OFFSETS UPDATED ON GALAH WALK AND CUBBY WALK	07.10.25	HW	CD					
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P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.

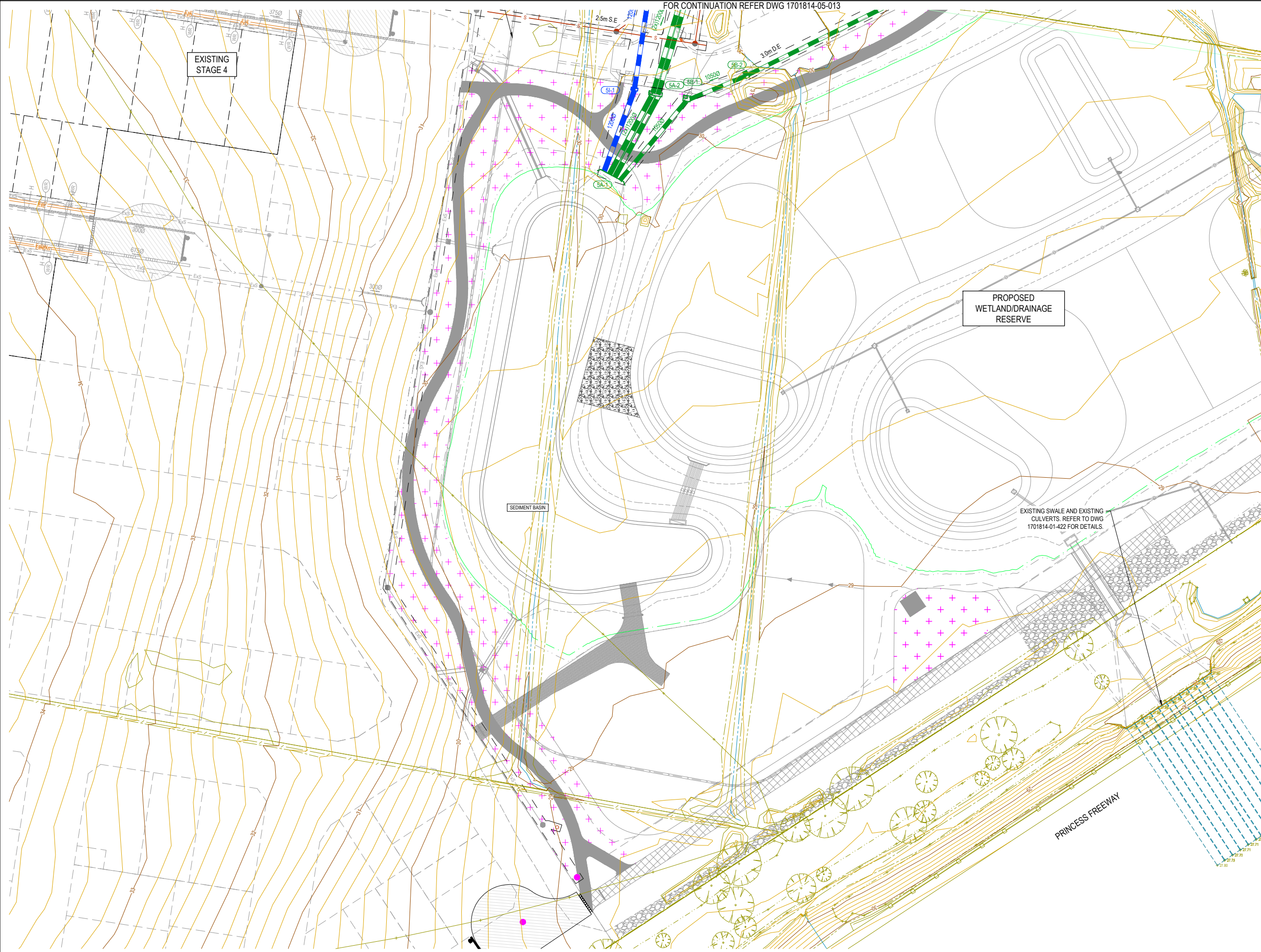


Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0012536
Date	28.08.25
PS Number	PS931746C

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Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	LAYOUT PLAN (SHEET 4 OF 7)

Sheet	11 of 76
Scale	1:500 @ A1
Project Ref	1701814
Stage No	05
Drawing No	013
Rev	P4



LEGEND - LAYOUT PLAN

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

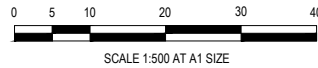
HATCH LEGEND

- PAVEMENT TREATMENT
- STRUCTURAL FILL > 200mm DEEP
- EX. STRUCTURAL FILL > 200mm DEEP
- LOT HATCHING
- ROAD PAVEMENT
- FOOTPATH
- DRIVEWAY
- INDUSTRIAL STRENGTH DRV / LANEWAYS
- NATURE STRIP
- RESERVES
- ELECTRICAL KIOSK
- DRAINAGE RESERVE
- MEDIAN DENSITY LOTS
- MAINTENANCE ACCESS TRACK
- DRY OUT AREA

WARNING
BEWARE OF UNDERGROUND SERVICES
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P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.



Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

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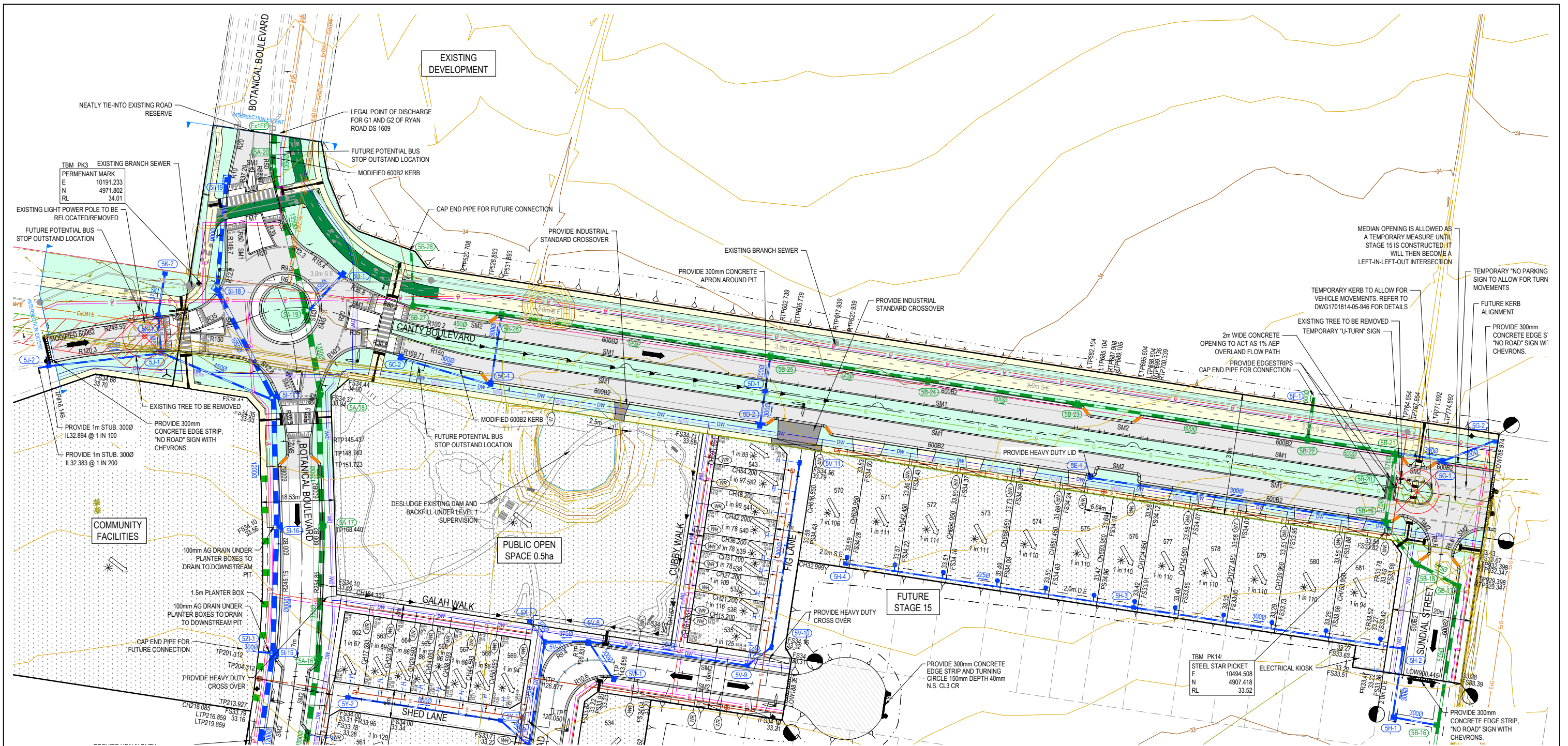
Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL

Drawing Title
LAYOUT PLAN
(SHEET 5 OF 7)

Sheet 12 of 76

Scale 1:500 @ A1

Project Ref 1701814 Stage No 05 Drawing No 014 Rev P3



HATCH LEGEND	
	PAVEMENT TREATMENT
	STRUCTURAL FILL > 200mm DEEP
	LOT HATCHING
	ROAD PAVEMENT
	FOOTPATH
	DRIVEWAY
	INDUSTRIAL STRENGTH DRV / LANEWAYS
	NATURE STRIP
	RESERVES
	ELECTRICAL KIOSK
	DRAINAGE RESERVE
	MEDIAN DENSITY LOTS
	MAINTENANCE ACCESS TRACK
	DRY OUT AREA

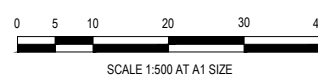
LEGEND - LAYOUT PLAN	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MELBOURNE WATER DRAIN & PIT
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	ELECTRICITY (UNDERGROUND)
	ELECTRICITY (OVERHEAD)
	OPTIC FIBRE
	TELECOMMUNICATIONS
	GAS
	WATER
	RECYCLED WATER
	EXISTING STORMWATER DRAIN
	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
	EXISTING SWALE DRAIN
	TACTILE PAVERS (INDICATIVE ONLY)
	EXISTING SURFACE LEVEL
	FINISHED BUILDING LINE LEVEL
	FINISHED RIDGE LINE LEVEL
	TOP OF RETAINING WALL
	BOTTOM OF RETAINING WALL
	RIDGE LINE
	RETAINING WALL
	ZERO LOT LINES
	PAVEMENT TREATMENT
	STRUCTURAL FILL > 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
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	KERB TRANSITION
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P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					



Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg No. PE0012536
Date 28.08.25
PS Number PS931746C

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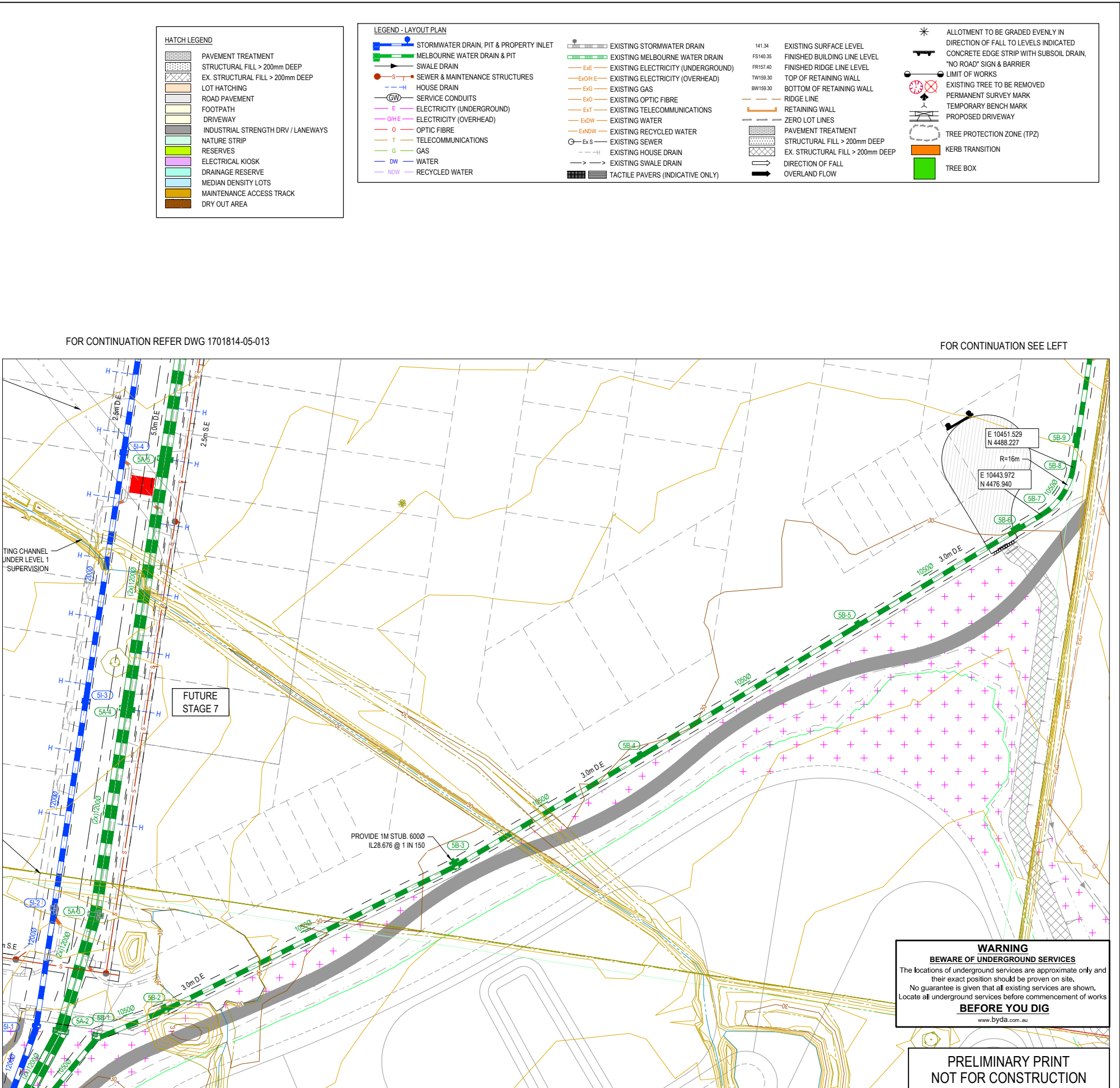
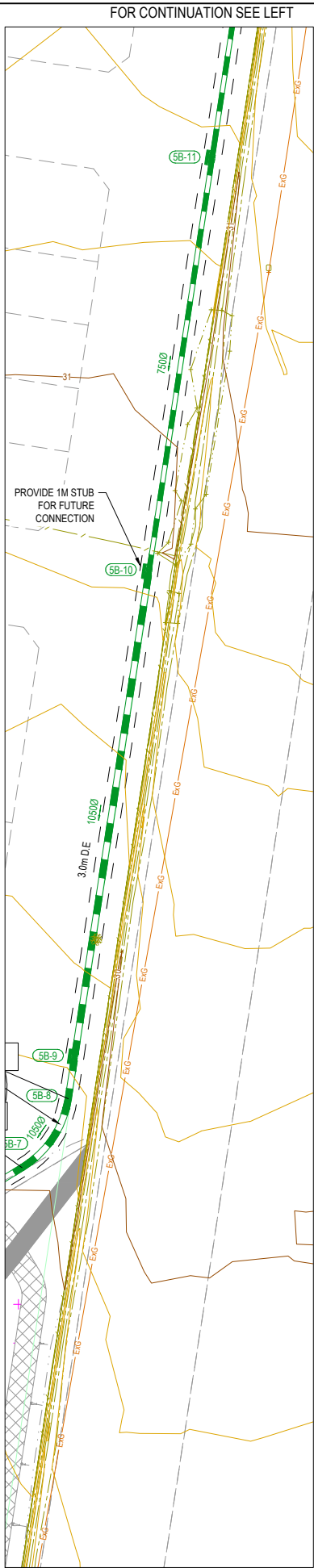
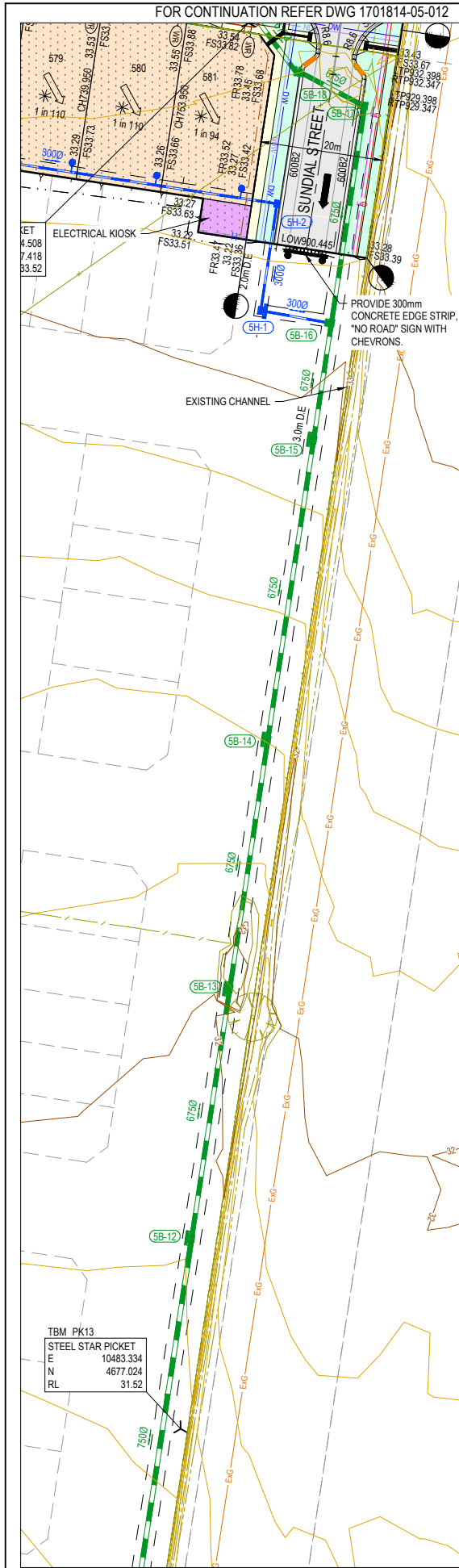
Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
LAYOUT PLAN
(SHEET 6 OF 7)

Sheet 13 of 76

Scale
1:500 @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	015	P3

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P2	UPDATED AS PER COUNCIL COMMENTS				24.09.25	NS	CD																						
P1	ISSUED FOR INFORMATION				28.08.25	NS	CD																						
REV	DESCRIPTION				DATE	DRN.	APP.	REV	DESCRIPTION				DATE	DRN.	APP.														

0510203040

SCALE 1:500 AT A1 SIZE

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Date
Drawn
Checked
Date
Approved
Reg. No.
Date
PS Number

N.SMOLENAARS
28.08.25
L.SUTHERLAND
C.DAWSON
28.08.25
C.DAWSON
PE0012526
28.08.25
PS931746C

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Project Details

MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL

Drawing Title

LAYOUT PLAN
(SHEET 7 OF 7)

Sheet14 of 76

Scale1:500 @ A1

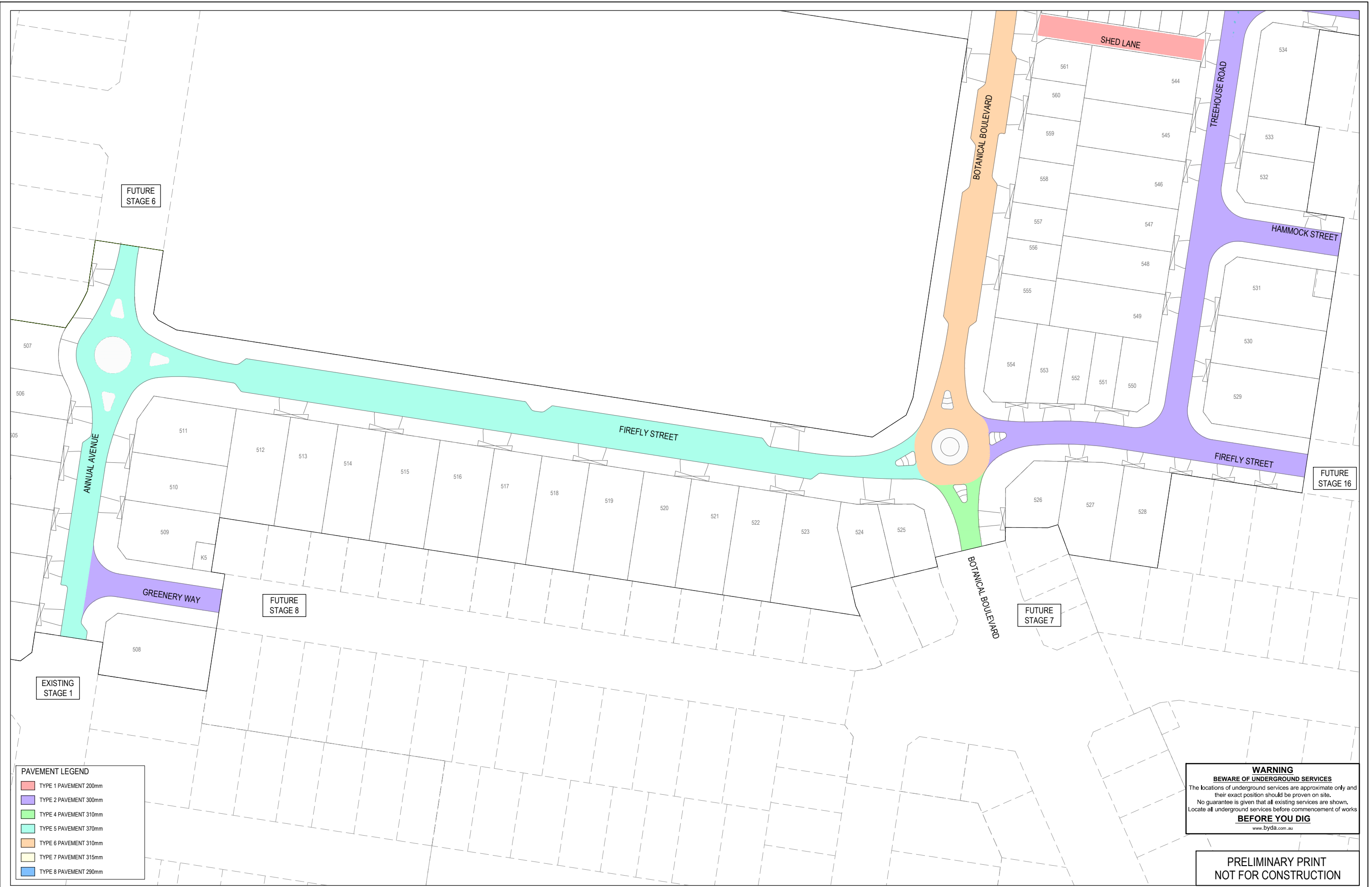
Project Ref1701814

Stage No05

Drawing No016

RevP3

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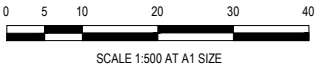
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	TYPE 2 PAVEMENT	300mm		
	TYPE 4 PAVEMENT	310mm		
	TYPE 5 PAVEMENT	370mm		
	TYPE 6 PAVEMENT	310mm		
	TYPE 7 PAVEMENT	315mm		
	TYPE 8 PAVEMENT	290mm		

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Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0012536
Date	28.08.25
PS Number	PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
PAVEMENT PLAN
(SHEET 1 OF 2)

Sheet 15 of 76

Scale
1:500 @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	020	P3





LEGEND - LAYOUT PLAN

- ELECTRICITY (UNDERGROUND)
- OPTIC FIBRE
- TELECOMMUNICATION
- GAS
- WATER
- RECYCLED WATER
- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- TACTILE PAVERS (INDICATIVE ONLY)
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING TELECOMMUNICATION
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- ZERO LOT LINES
- PAVEMENT TREATMENT
- 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
- RIDGE LINE
- RETAINING WALL
- EXISTING RETAINING WALL
- FUTURE RETAINING WALL
- TREE PROTECTION ZONE (TPZ)

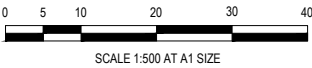
HATCH LEGEND

- PAVEMENT TREATMENT
- STRUCTURAL FILL > 200mm DEEP
- EX. STRUCTURAL FILL > 200mm DEEP
- LOT HATCHING
- ROAD PAVEMENT
- FOOTPATH
- DRIVEWAY
- INDUSTRIAL STRENGTH DRV / LANEWAYS
- NATURE STRIP
- RESERVES
- ELECTRICAL KIOSK
- DRAINAGE RESERVE
- MEDIAN DENSITY LOTS
- MAINTENANCE ACCESS TRACK
- DRY OUT AREA
- EXISTING VEGETATION TO REMAIN
- EXISTING VEGETATION TO BE REMOVED

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Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
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PS Number PS931746C

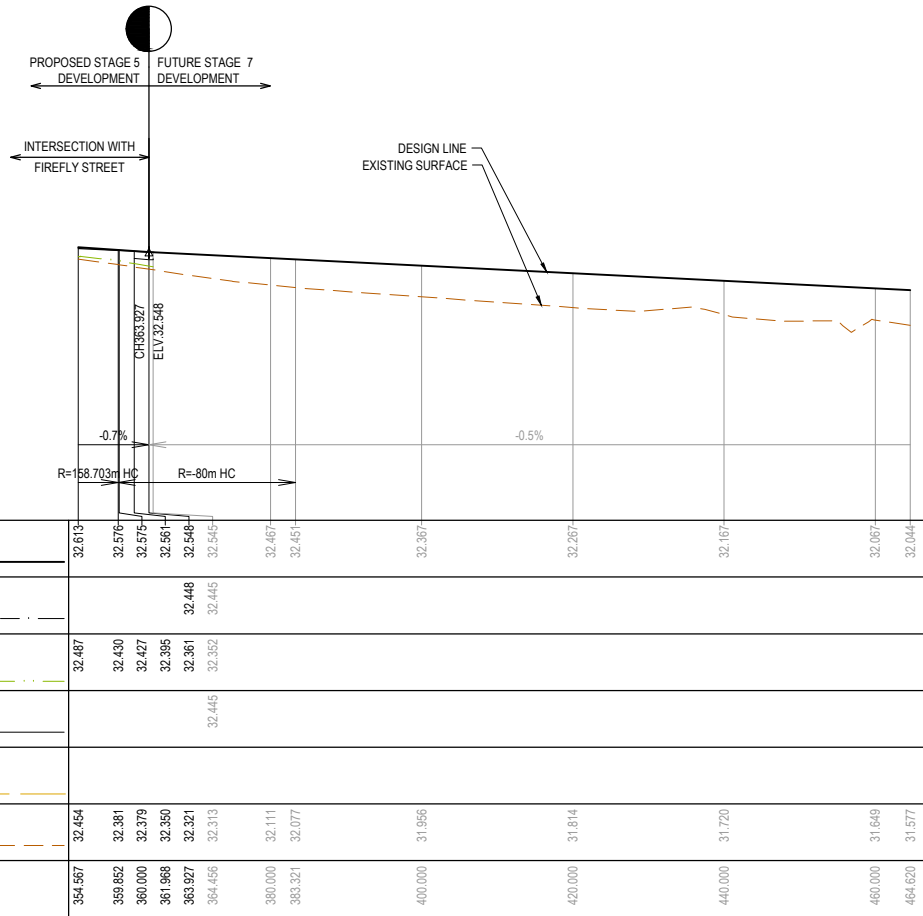
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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
RETAINING WALL PLAN

Sheet 17 of 76

Scale
1:500 @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	030	P3



LEGEND

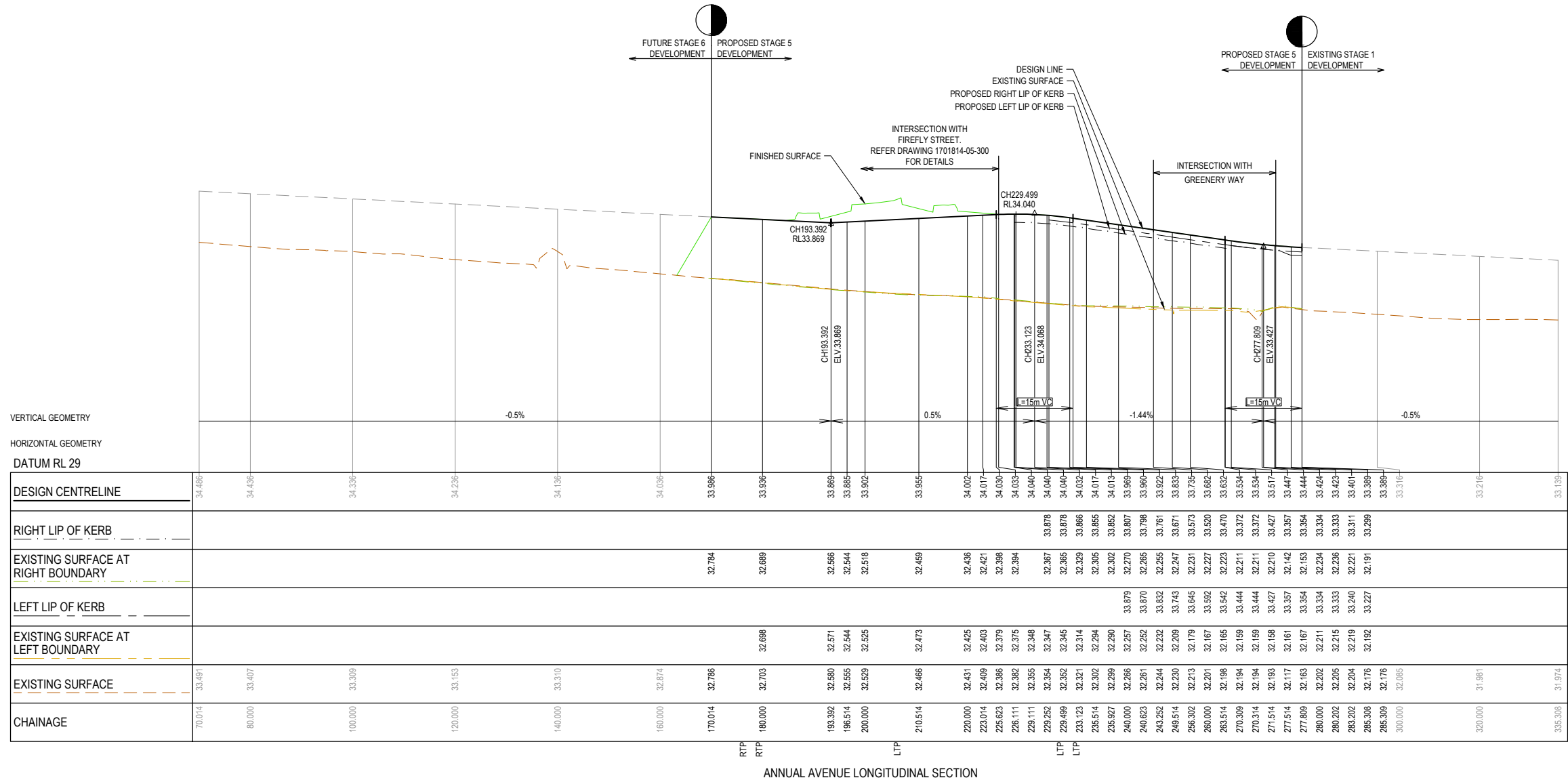
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—	DESIGN LINE
---	FUTURE DESIGN LINE
---	EXISTING SURFACE AT RIGHT BOUNDARY
---	RIGHT LIP OF KERB
---	EXISTING SURFACE AT LEFT BOUNDARY
---	LEFT LIP OF KERB

Project Ref	Stage No	Drawing No	Rev
1701814	05	100	P3



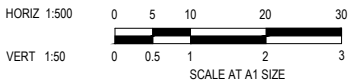
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LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB



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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.



Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE891258
Date	28.08.25
PS Number	PS931746C

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Malvern VIC 3144

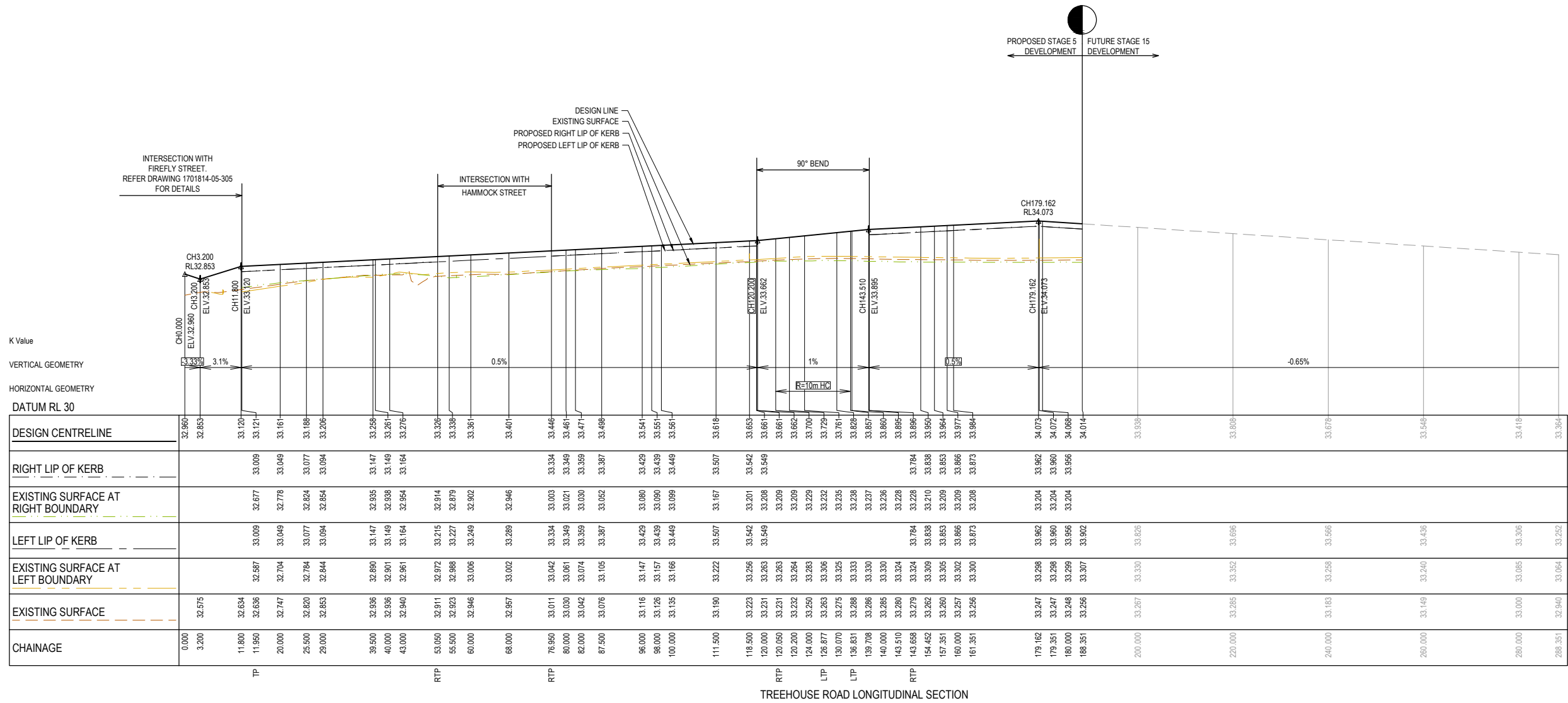
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Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	ROAD LONGITUDINAL SECTIONS ANNUAL AVENUE

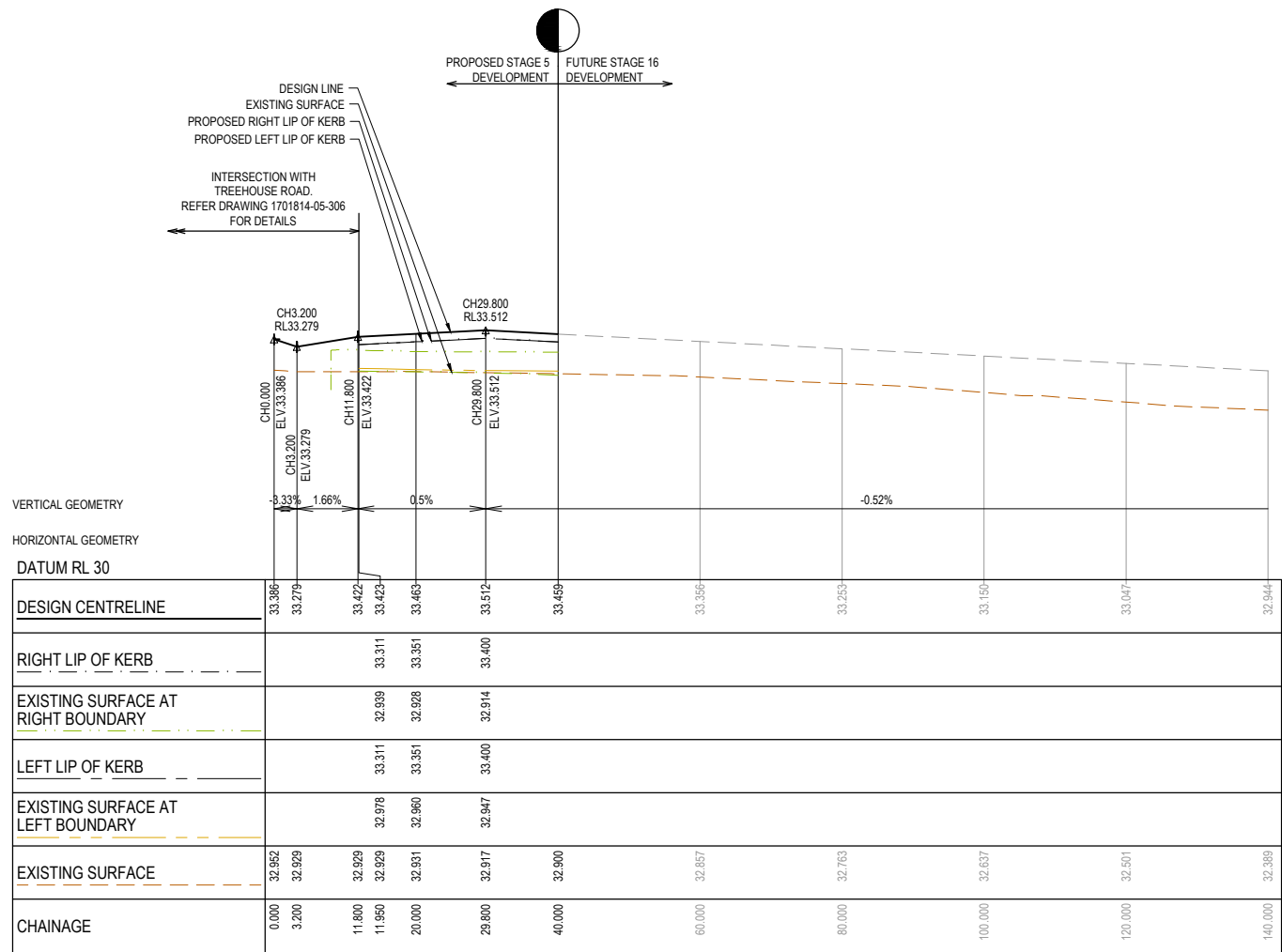
Sheet 20 of 76

Scale
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Project Ref	Stage No	Drawing No	Rev
1701814	05	102	P3



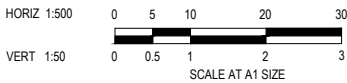
LEGEND	
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	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB



HAMMOCK STREET LONGITUDINAL SECTION

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Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	ROAD LONGITUDINAL SECTIONS HAMMOCK STREET

Sheet 22 of 76

Scale
1:500 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	104	P3

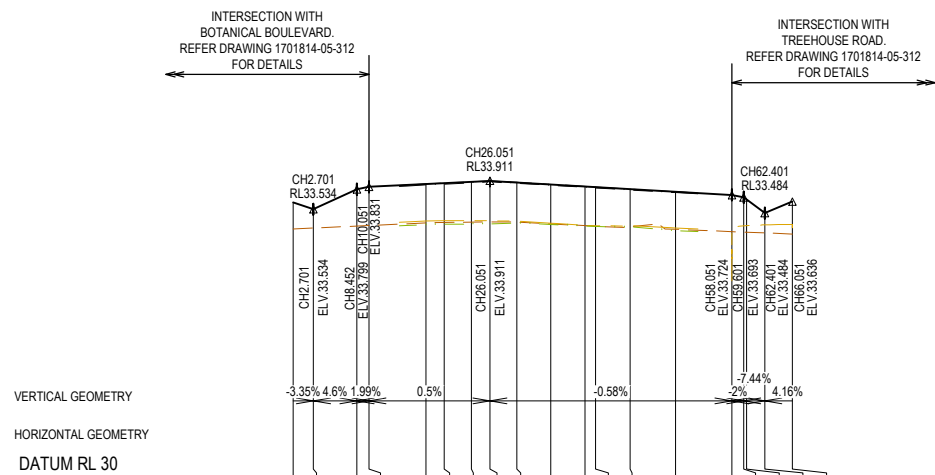


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Project Ref	Stage No	Drawing No	Rev
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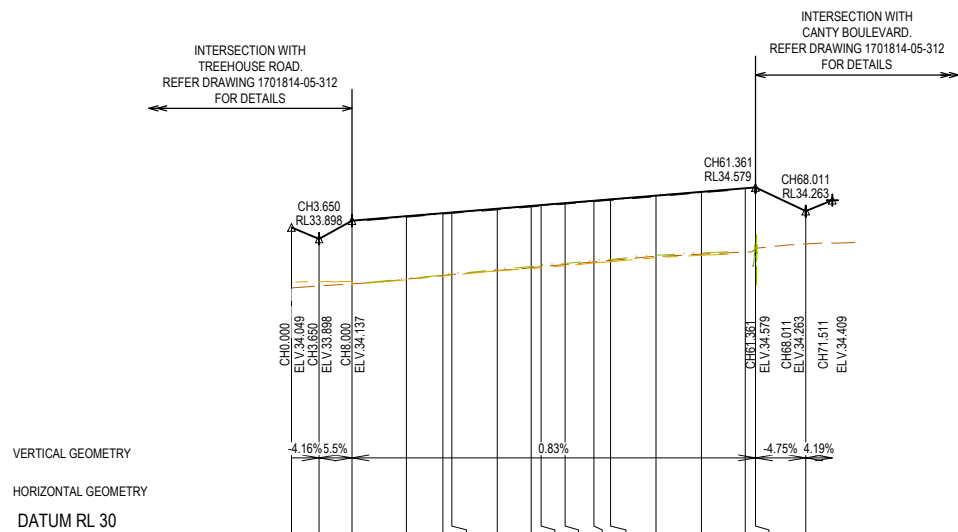
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LEGEND	
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	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB



DESIGN CENTRELINE	33.625 33.534 33.799 33.831 33.888 33.880 33.886 33.911 33.880 33.864 33.837 33.825 33.817 33.790 33.802 33.767 33.755 33.724 33.693 33.653 33.484 33.636
RIGHT LIP OF KERB	33.566 33.331 33.335 33.340 33.343 33.350 33.334 33.351 33.325 33.306 33.296 33.252
EXISTING SURFACE AT RIGHT BOUNDARY	33.331 33.335 33.340 33.343 33.350 33.334 33.351 33.325 33.306 33.296 33.252
LEFT LIP OF KERB	33.888 33.880 33.886 33.911 33.880 33.864 33.837 33.825 33.817 33.790 33.802 33.767 33.755
EXISTING SURFACE AT LEFT BOUNDARY	33.378 33.386 33.385 33.385 33.382 33.377 33.351 33.322 33.316 33.312 33.286 33.284 33.315 33.318 33.221 33.207
EXISTING SURFACE	33.275 33.287 33.313 33.320 33.354 33.360 33.364 33.367 33.364 33.339 33.318 33.311 33.304 33.269 33.239 33.233 33.231 33.221 33.207
CHAINAGE	0.000 2.701 8.452 10.051 17.593 20.000 23.593 26.051 29.593 34.093 38.593 40.000 44.593 50.593 58.051 59.601 60.000 62.401 66.051

SHED LANE LONGITUDINAL SECTION

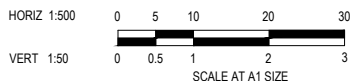


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RIGHT LIP OF KERB	34.184 34.224 34.234 34.283 34.333 34.321 34.344 34.358 34.389 34.408 34.457 34.507 34.507 34.579 34.263
EXISTING SURFACE AT RIGHT BOUNDARY	33.371 33.419 33.431 33.490 33.531 33.543 33.572 33.607 33.627 33.680 33.710 33.766
LEFT LIP OF KERB	34.197 34.226 34.246 34.296 34.333 33.515 34.344 34.370 34.402 34.420 34.470 34.519 34.507 34.579 34.263
EXISTING SURFACE AT LEFT BOUNDARY	33.358 33.405 33.417 33.472 33.505 33.515 33.543 33.557 33.577 33.597 33.649 33.679 33.679 33.722 33.766 33.829 33.849
EXISTING SURFACE	33.274 33.302 33.364 33.412 33.424 33.480 33.516 33.528 33.557 33.592 33.612 33.665 33.695 33.722 33.766 33.829 33.849
CHAINAGE	0.000 3.650 8.000 15.200 20.000 21.200 27.200 31.700 32.999 36.200 40.000 42.200 48.200 54.200 60.000 61.361 68.011 74.462

FIG LANE LONGITUDINAL SECTION

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P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.



Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0912536
Date	28.08.25
PS Number	PS931746C

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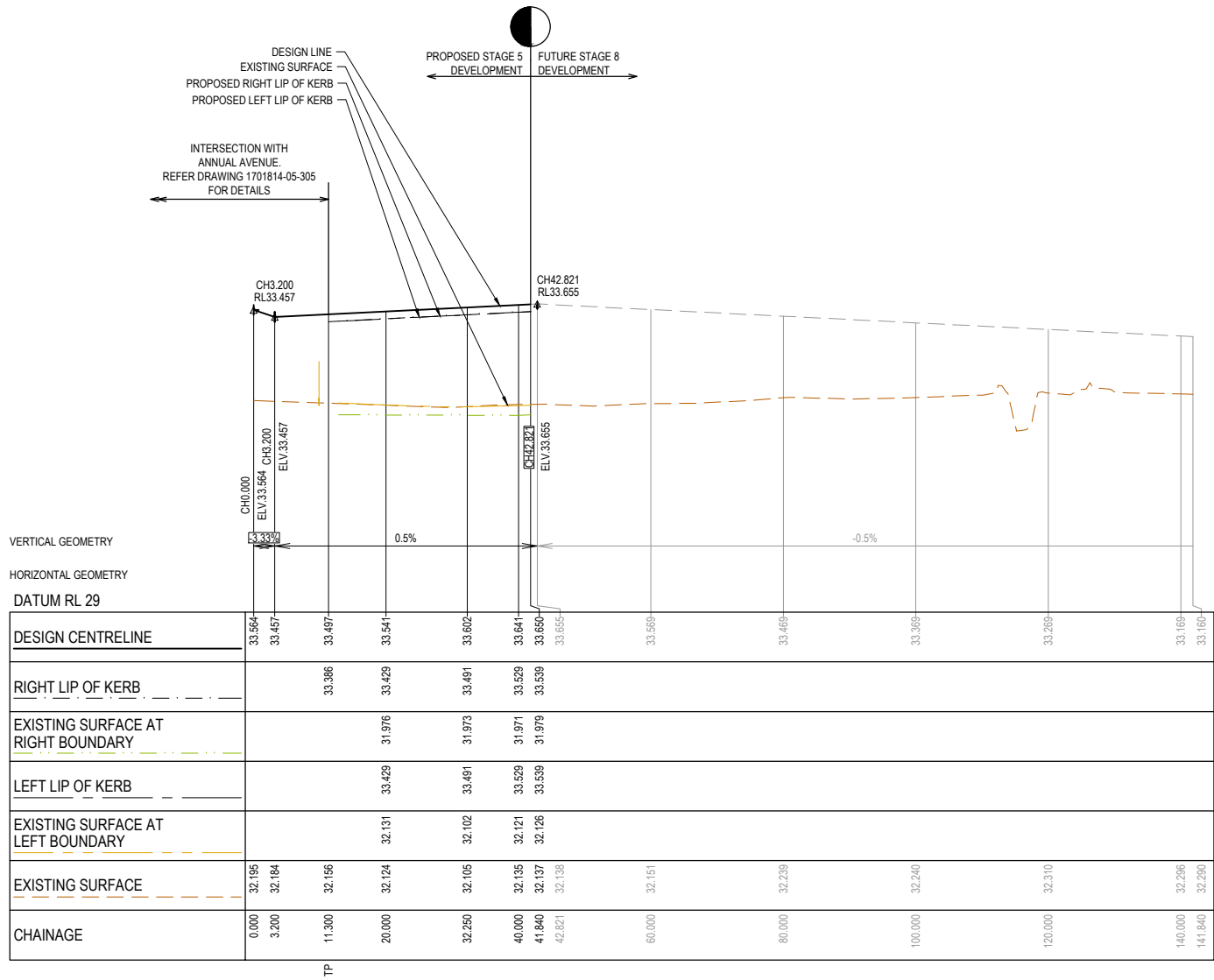
Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	ROAD LONGITUDINAL SECTIONS SHED LANE & FIG LANE

Sheet 24 of 76

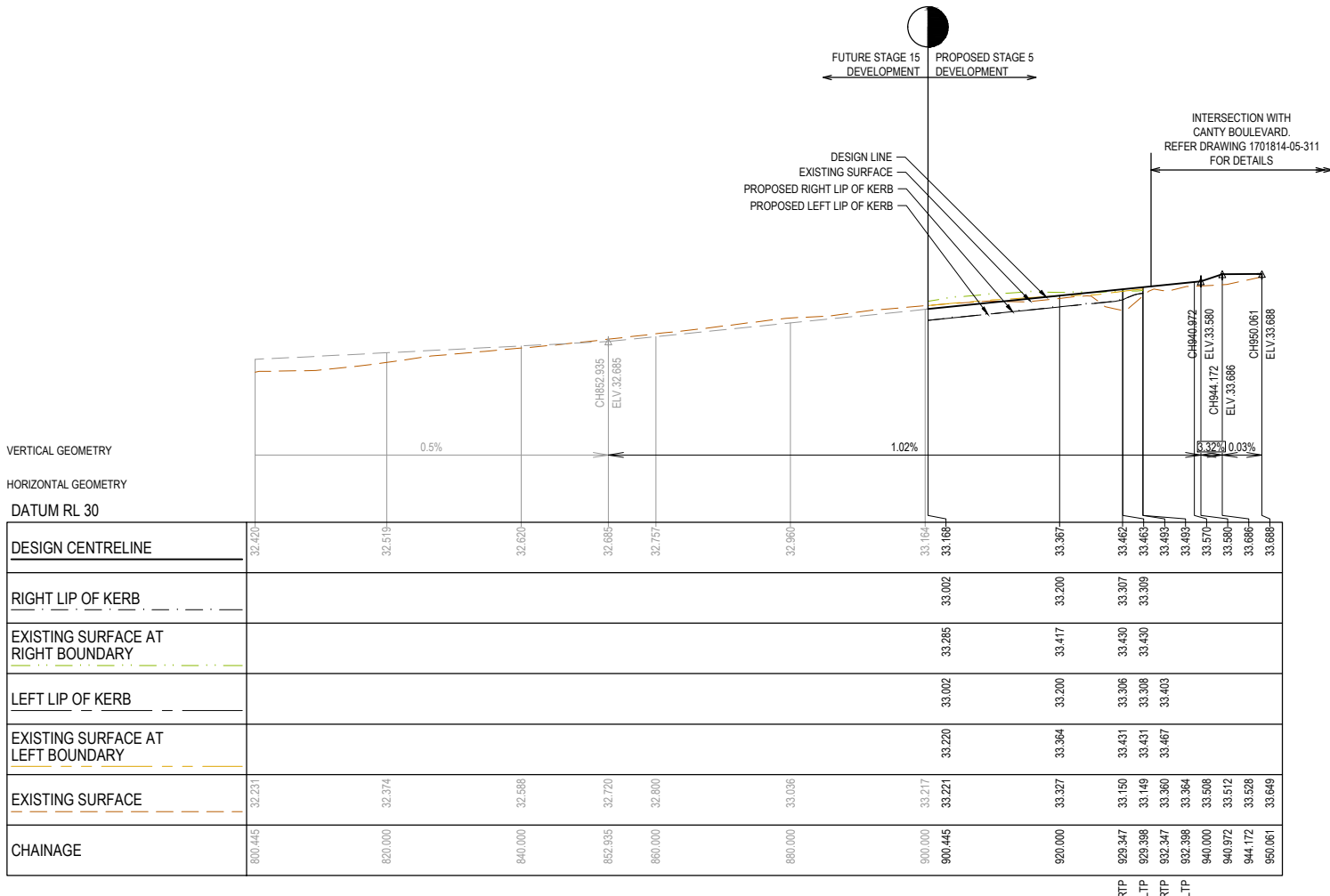
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Project Ref	Stage No	Drawing No	Rev
1701814	05	106	P3

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



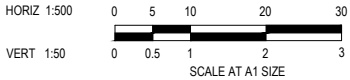
GREENERY WAY LONGITUDINAL SECTION



SUNDIAL STREET LONGITUDINAL SECTION

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P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.



Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE001258
Date	28.08.25
PS Number	PS931746C

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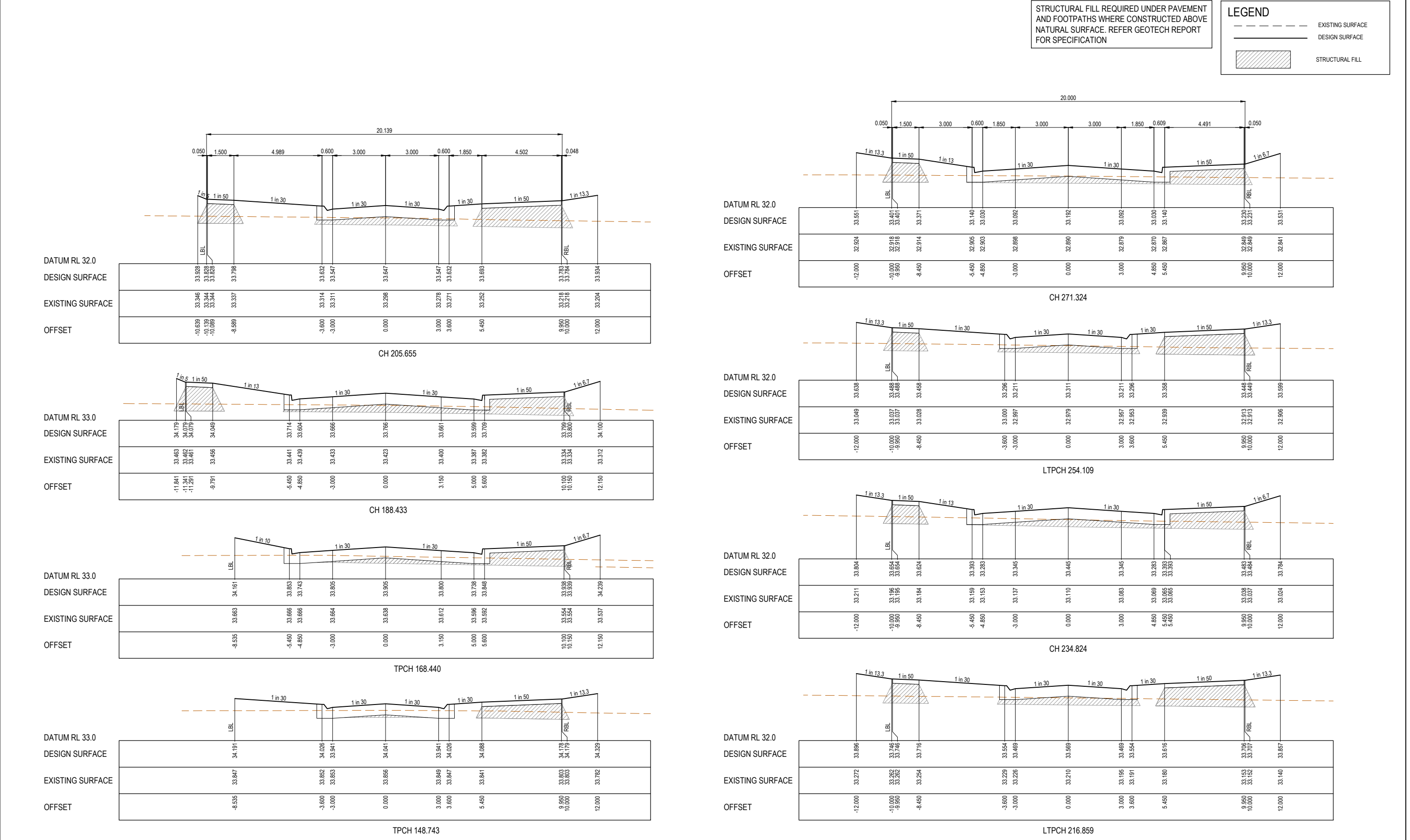
ph: 03 9524 8888
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Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	ROAD LONGITUDINAL SECTIONS GREENERY WAY & SUNDIAL STREET

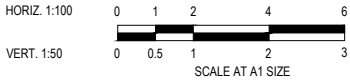
Sheet 25 of 76

Scale
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Project Ref	Stage No	Drawing No	Rev
1701814	05	107	P3



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P3	SERVICE OFFSETS UPDATED ON GALAH WALK AND CUBBY WALK	07.10.25	HW	CD					
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P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.



Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL

Drawing Title
ROAD CROSS SECTIONS
BOTANICAL BOULEVARD
(SHEET 1 OF 2)

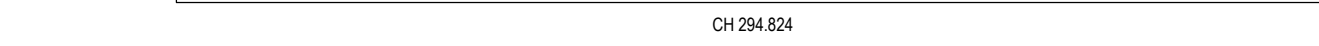
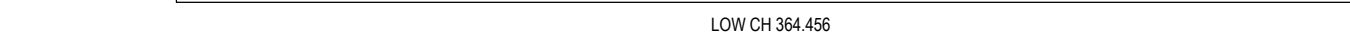
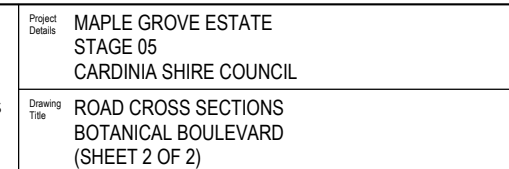
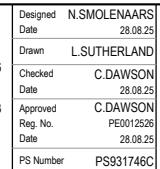
Sheet 26 of 76
Scale 1:100 H 1:50 V @ A1

Project Ref 1701814
Stage No 05
Drawing No 200
Rev P3

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LEGEND

---	EXISTING SURFACE
—	DESIGN SURFACE
	STRUCTURAL FILL

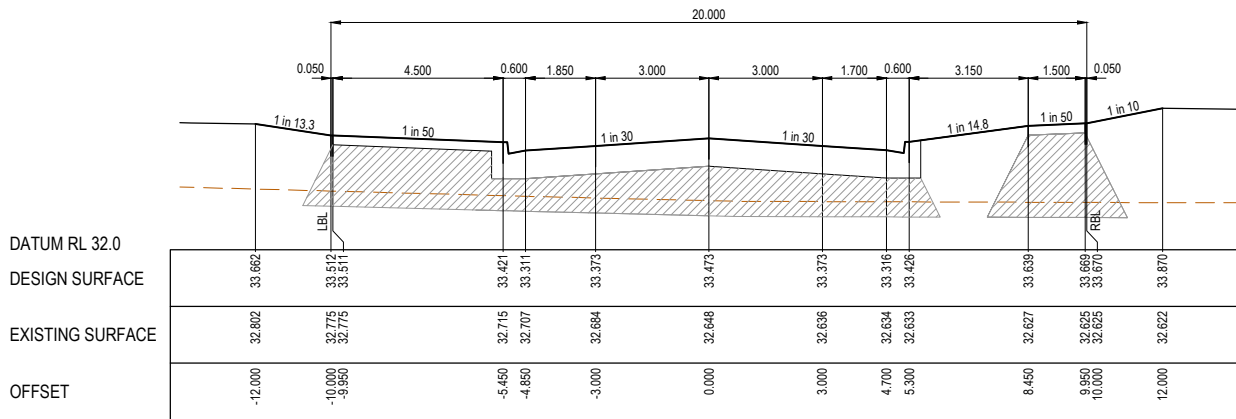
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Sheet 27 of 76			
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Project Ref	Stage No	Drawing No	Rev
1701814	05	201	P3

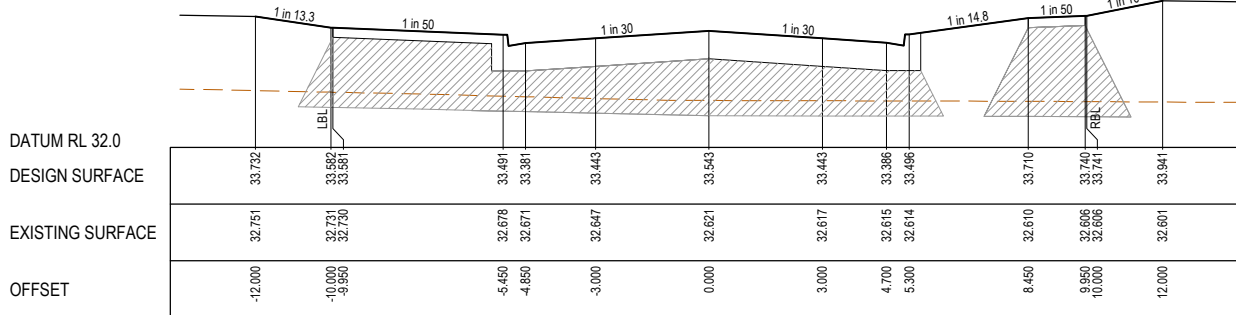
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

LEGEND

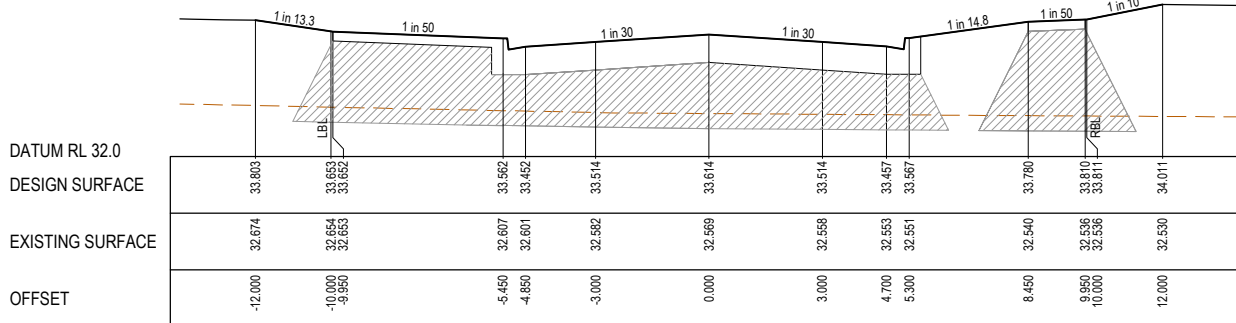
--- EXISTING SURFACE
--- DESIGN SURFACE
STRUCTURAL FILL



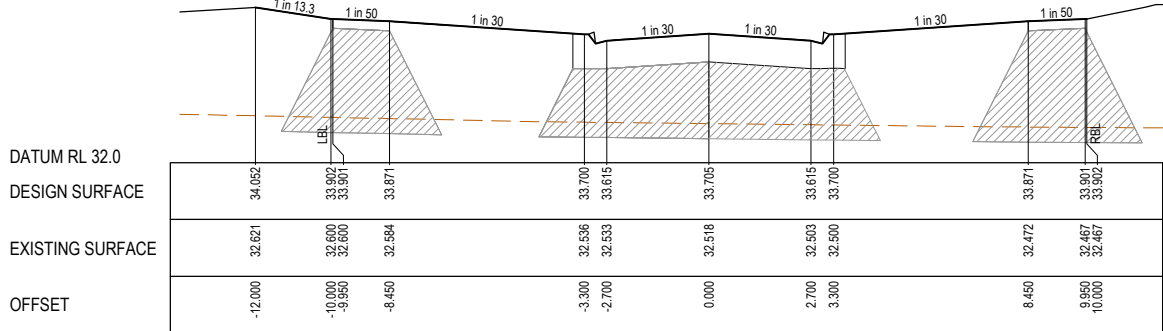
CH 81.850



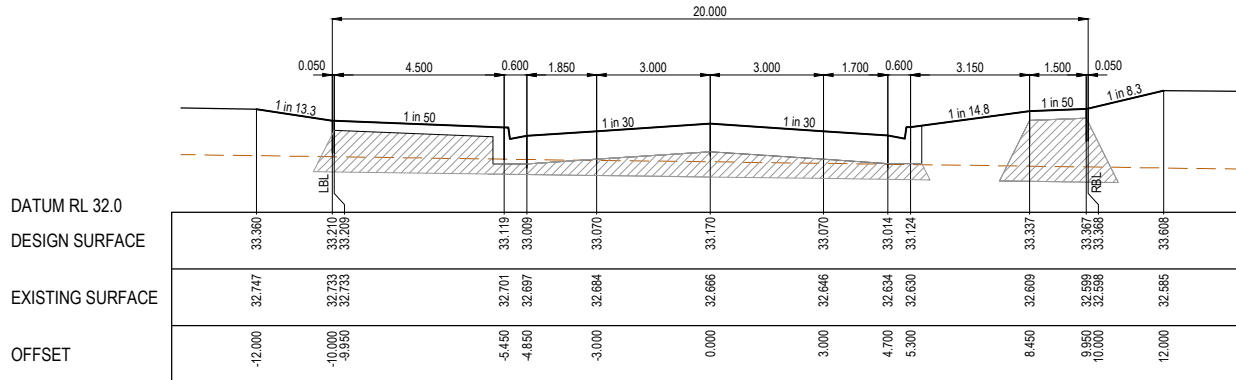
CH 67.850



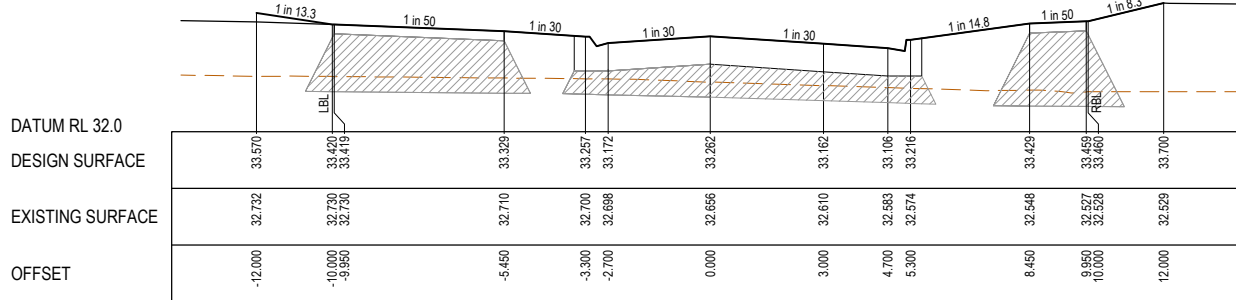
CH 53.850



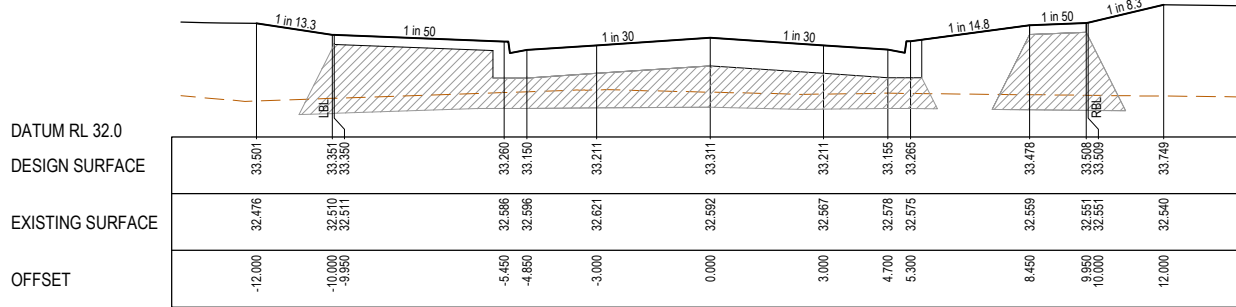
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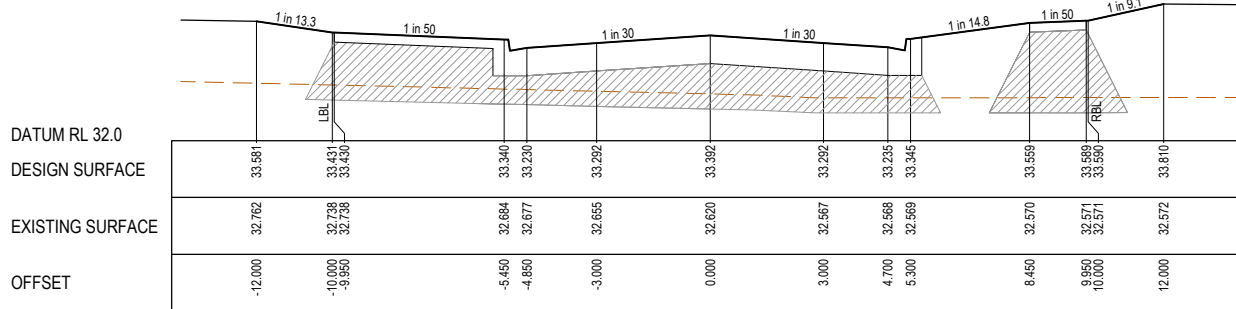
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CH 123.598



CH 113.850



CH 97.850

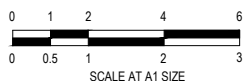
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P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					

HORIZ. 1:100

VERT. 1:50



Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
ROAD CROSS SECTIONS
FIREFLY STREET
(SHEET 1 OF 2)

Sheet 28 of 76

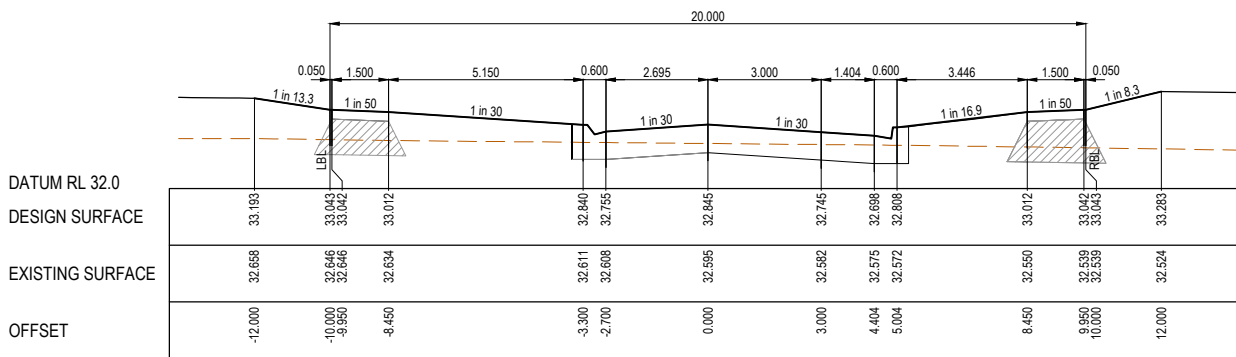
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Project Ref 1701814
Stage No 05
Drawing No 202
Rev P3

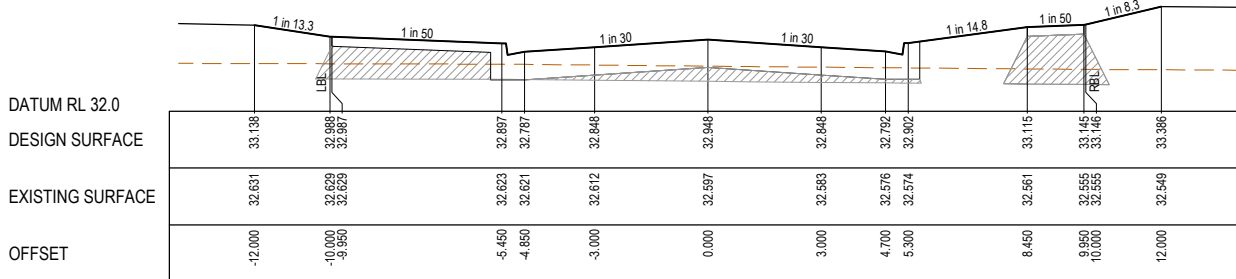
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STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

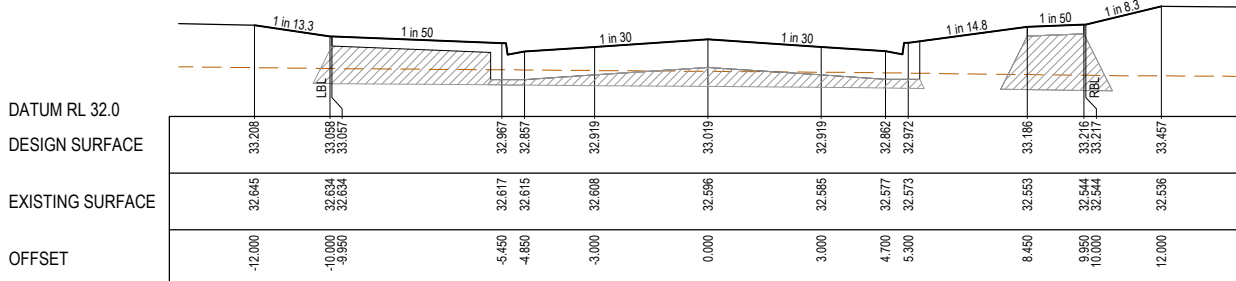
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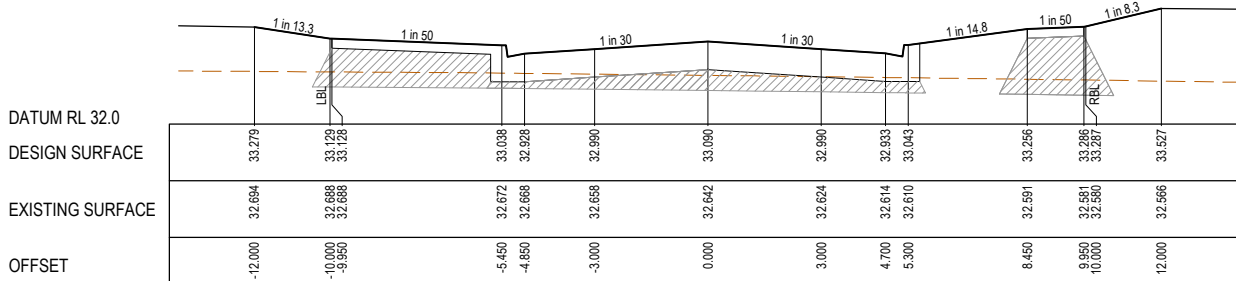
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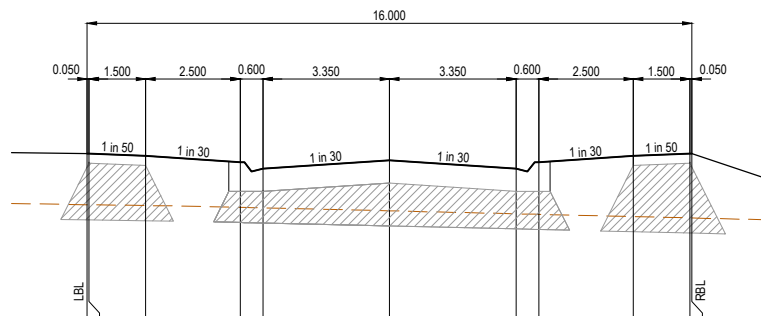
CH 185.850



CH 171.850



CH 157.850

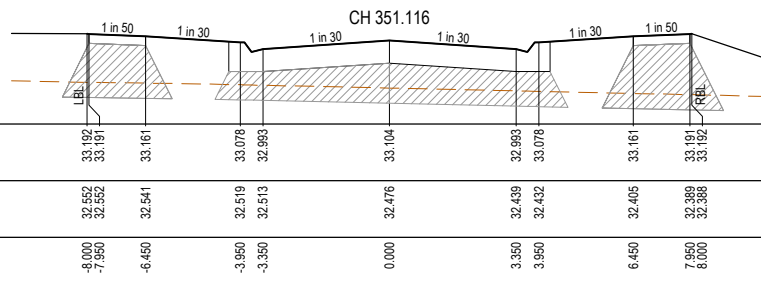


DATUM RL 31.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET

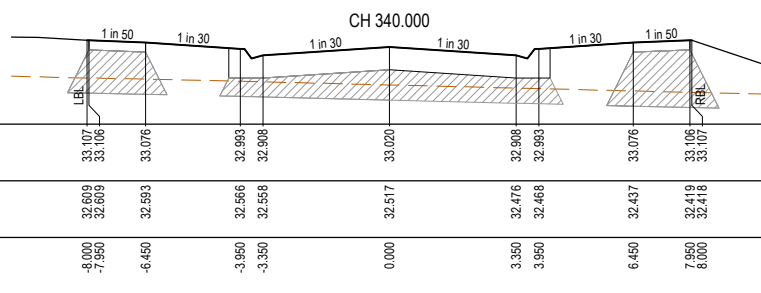


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EXISTING SURFACE

OFFSET

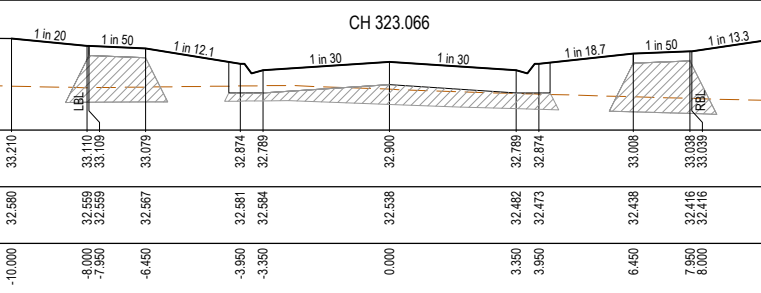


DATUM RL 32.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET



DATUM RL 32.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET

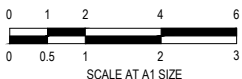
CH 299.166

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P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.

HORIZ 1:100

VERT. 1:50



Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0012536
Date	28.08.25
PS Number	PS931746C

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Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	ROAD CROSS SECTIONS FIREFLY STREET (SHEET 2 OF 2)

Sheet 29 of 76

Scale
1:100 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	203	P3

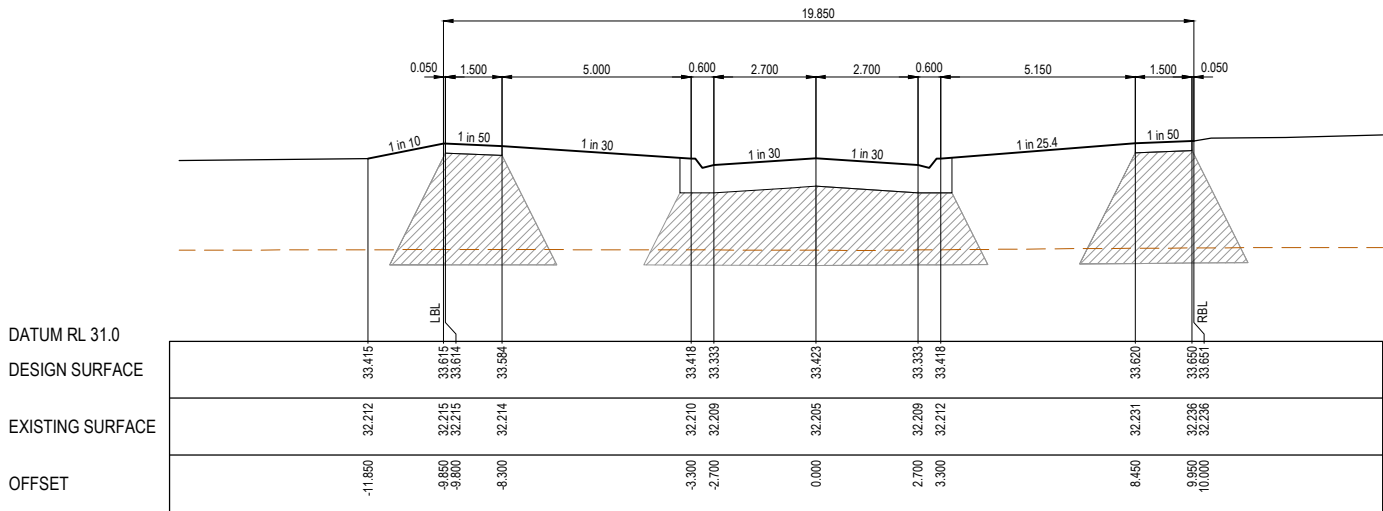
STRUCTURAL FILL REQUIRED UNDER PAVEMENT
AND FOOTPATHS WHERE CONSTRUCTED ABOVE
NATURAL SURFACE. REFER GEOTECH REPORT
FOR SPECIFICATION

LEGEND

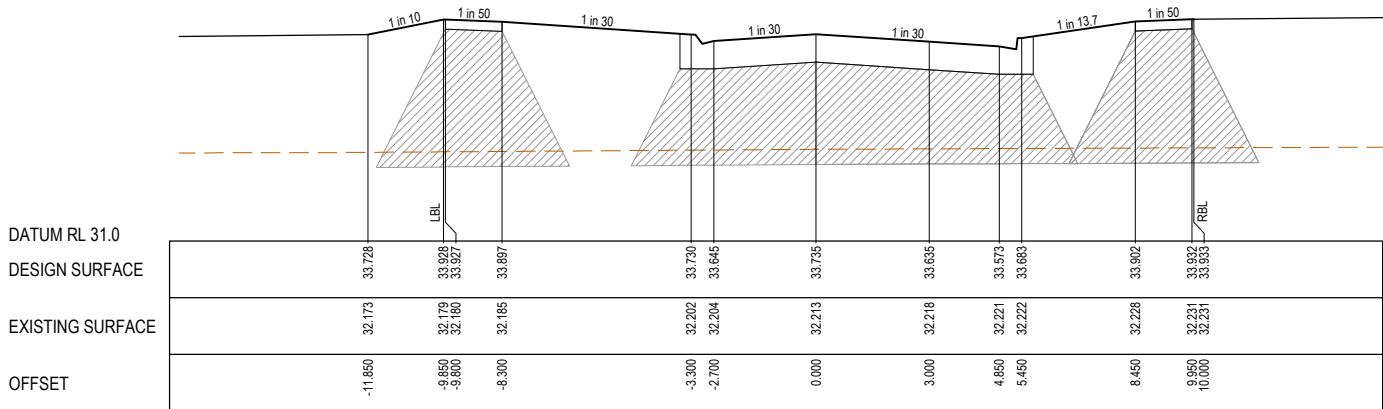
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DESIGN SURFACE

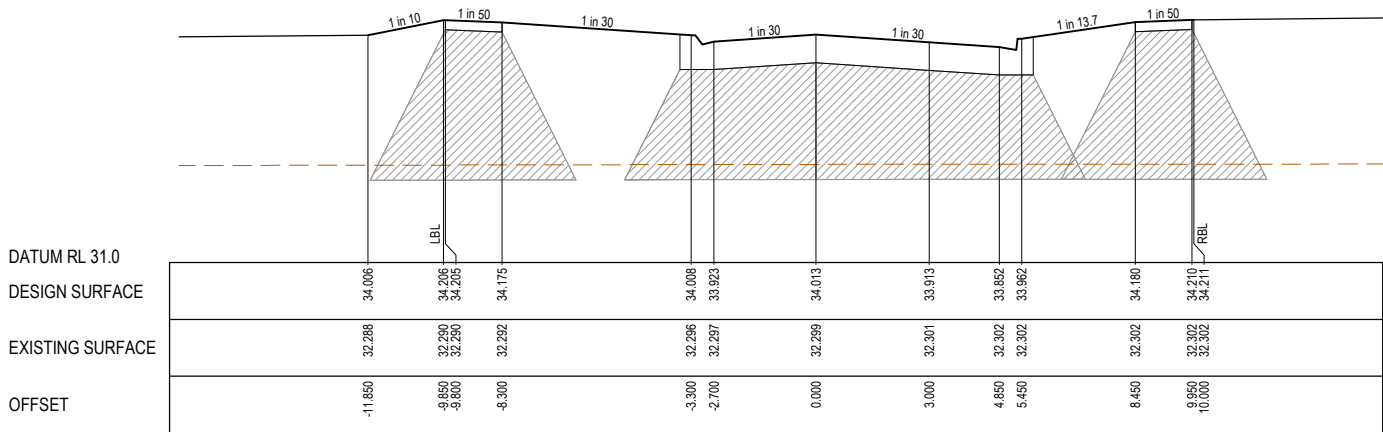
STRUCTURAL FILL



LTPCH 280.202

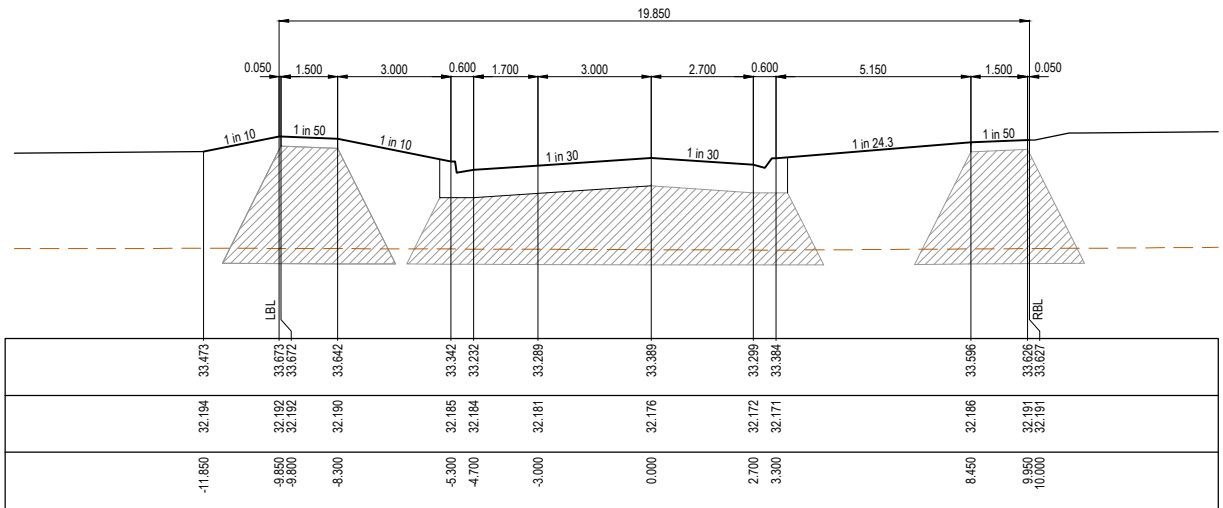


LTPCH 256.302



CH 235.927

DATUM RL 31.0
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EXISTING SURFACE
OFFSET

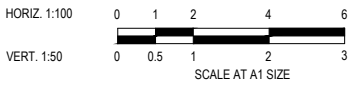


LOWCH 285.308

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P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					



Designed	N.SMOLENAARS
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Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0012536
Date	28.08.25
PS Number	PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL

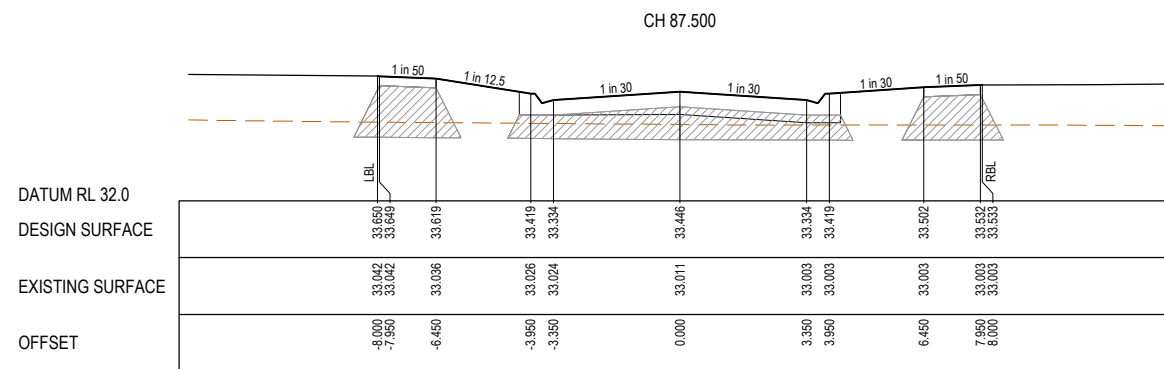
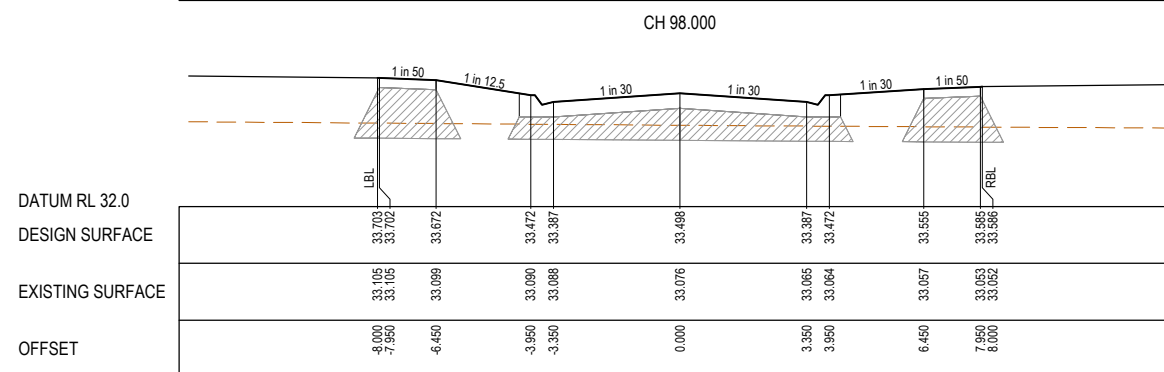
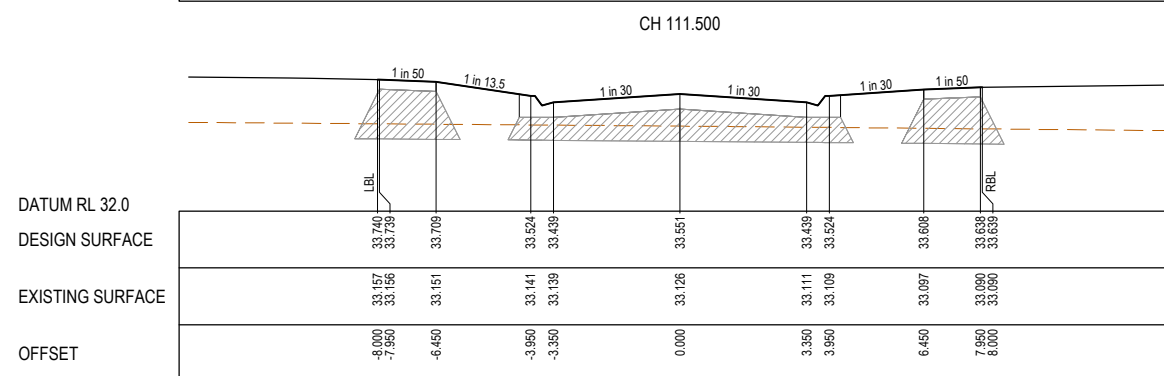
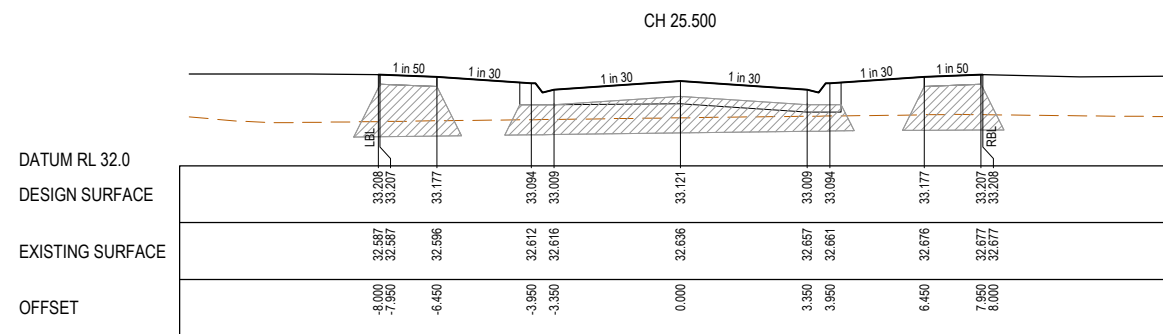
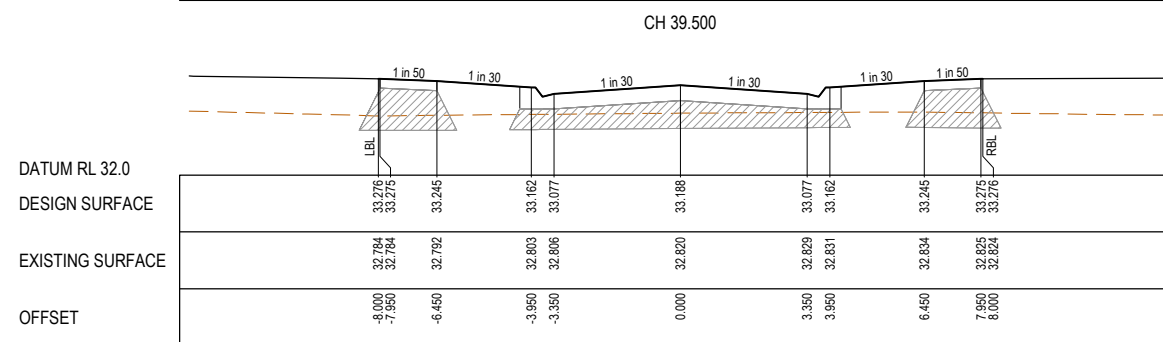
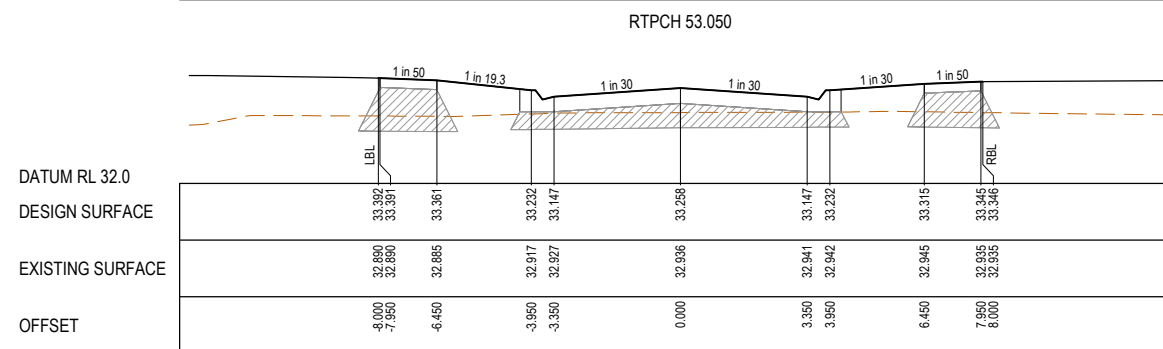
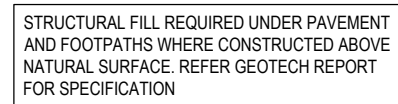
Drawing Title
ROAD CROSS SECTIONS
ANNUAL AVENUE

Sheet 30 of 76

Scale
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Project Ref	Stage No	Drawing No	Rev
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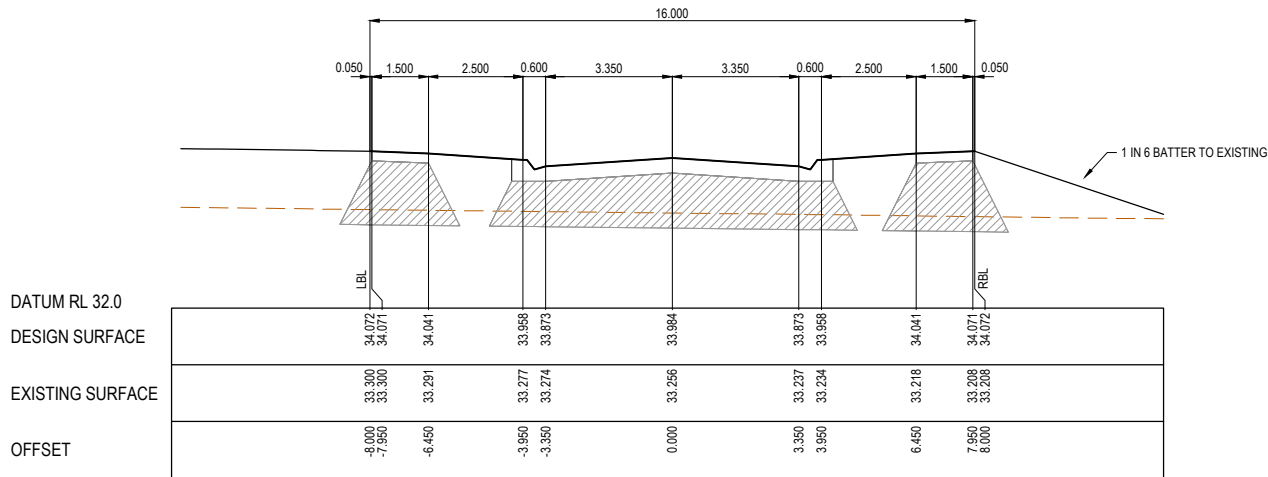
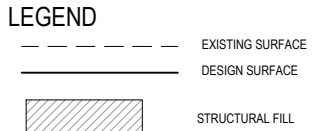


Sheet 31 of 76

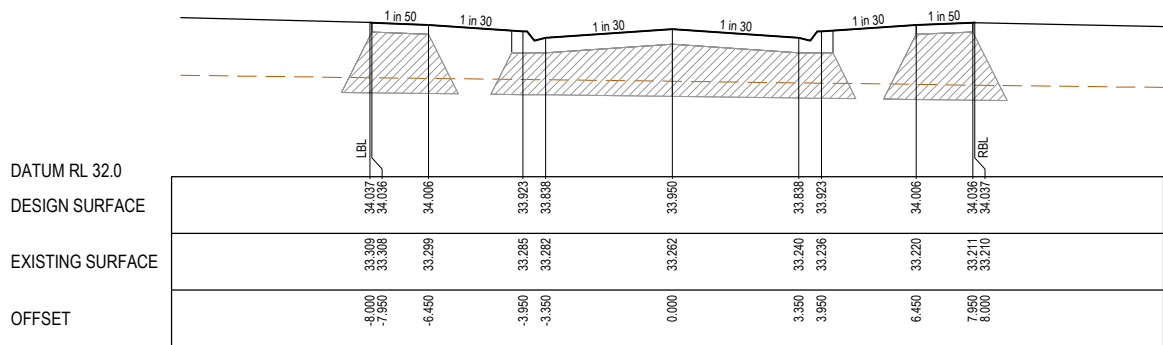
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Project Ref	Stage No	Drawing No	Rev
1701814	05	205	P3

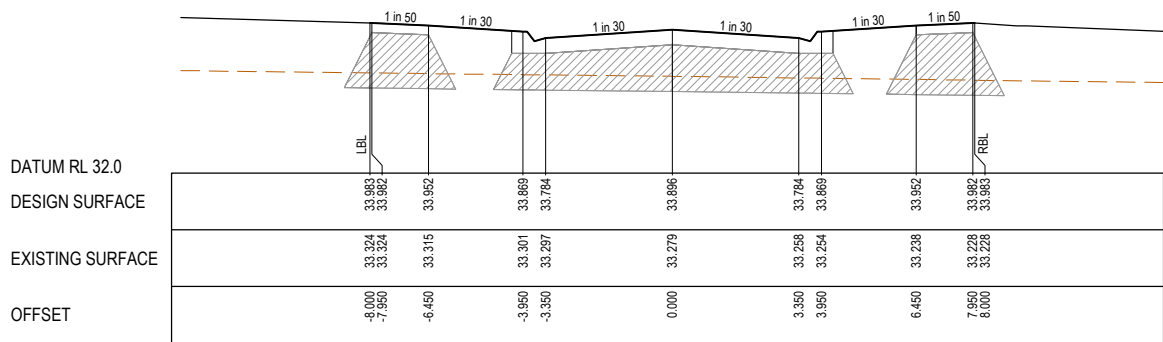
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION



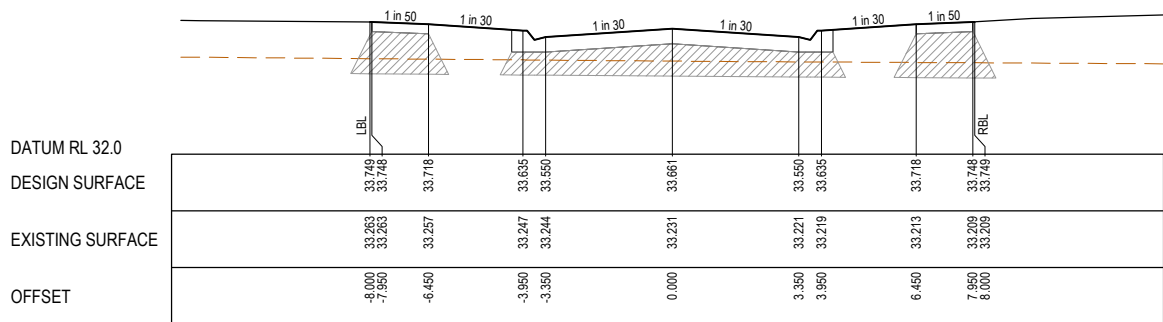
CH 161.351



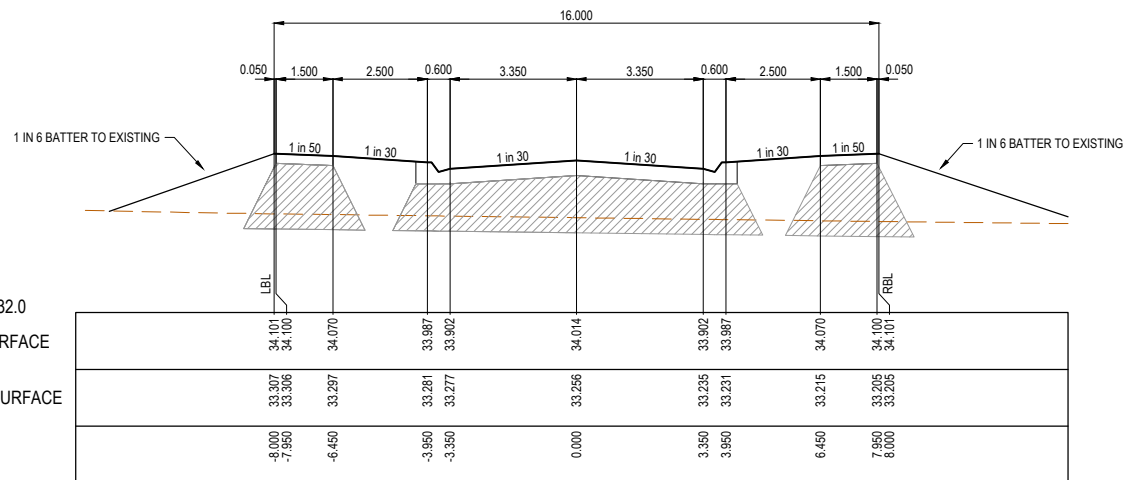
CH 154.452



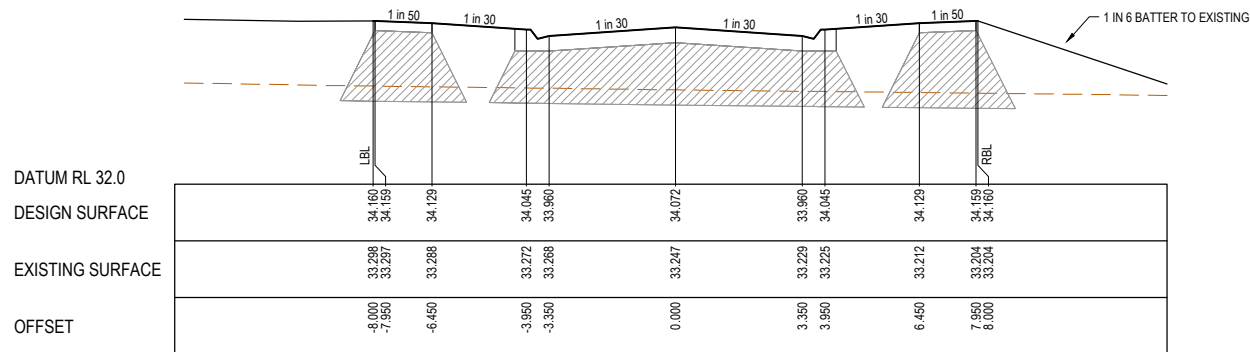
CH 143.658



RTPCH 120.050



LOWCH 188.351



CH 179.351

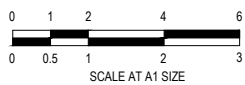
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P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					

HORIZ 1:100

VERT. 1:50



Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE9012536
Date 28.08.25
PS Number PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
ROAD CROSS SECTIONS
TREEHOUSE ROAD
(SHEET 2 OF 2)

Sheet 32 of 76

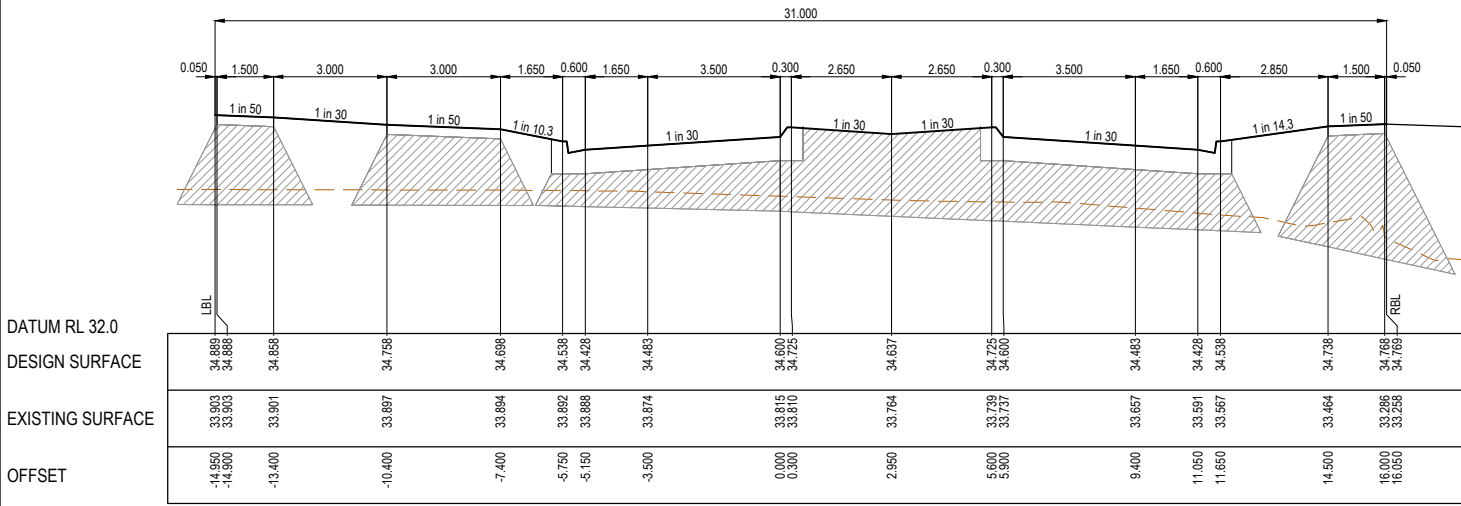
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Project Ref 1701814
Stage No 05
Drawing No 206
Rev P3

G:\mell\jobs\Jobs Data\1701814 - 10 Carly Lane, Pakenham\Eng\Stage 5\Drawings\1701814-05-200-RXS.dwg

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

LEGEND
--- EXISTING SURFACE
--- DESIGN SURFACE
[Hatched Box] STRUCTURAL FILL



DATUM RL 32.0

DESIGN SURFACE

EXISTING SURFACE

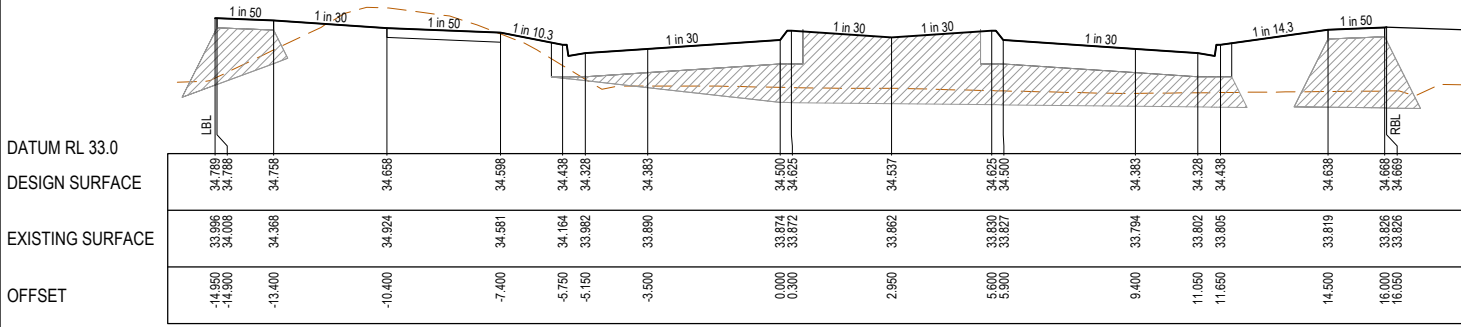
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DATUM RL 33.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET



DATUM RL 33.0

DESIGN SURFACE

EXISTING SURFACE

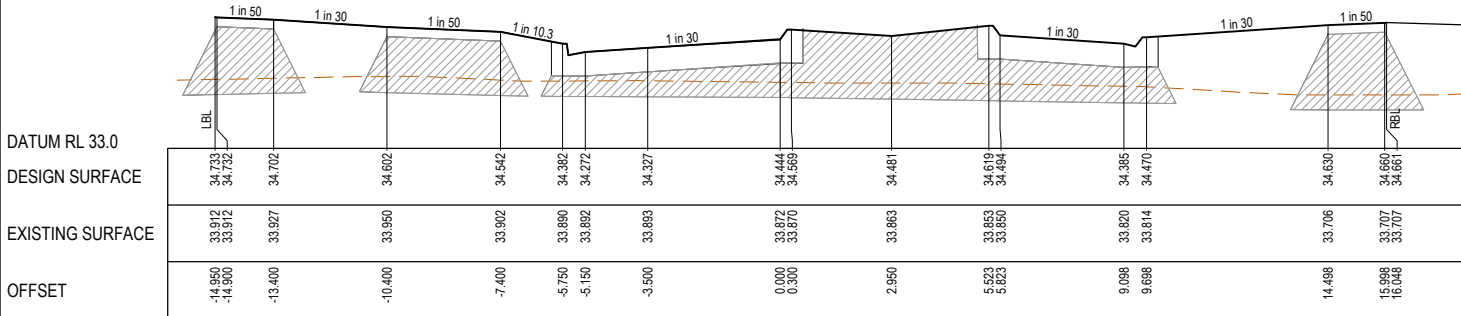
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DATUM RL 33.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET



DATUM RL 33.0

DESIGN SURFACE

EXISTING SURFACE

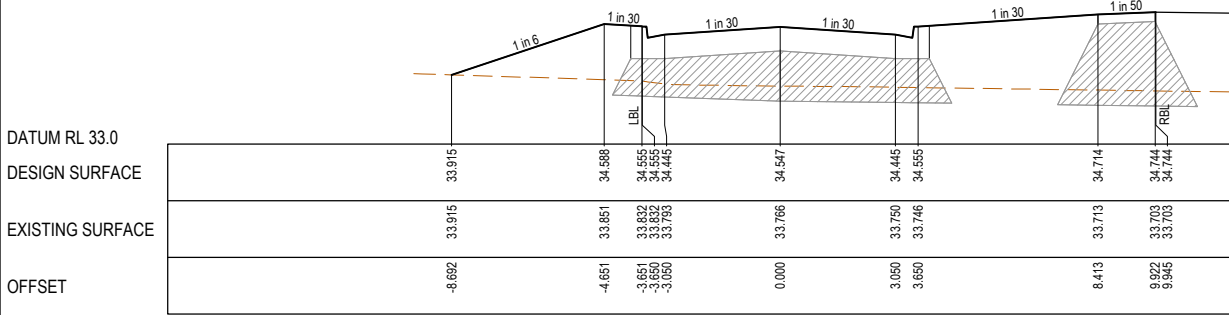
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DATUM RL 33.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET



DATUM RL 33.0

DESIGN SURFACE

EXISTING SURFACE

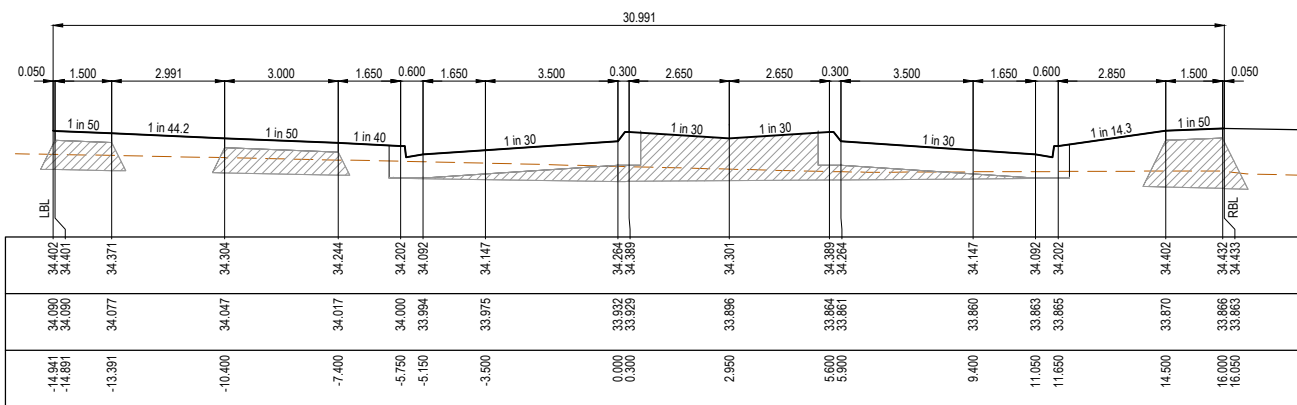
OFFSET

DATUM RL 33.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET

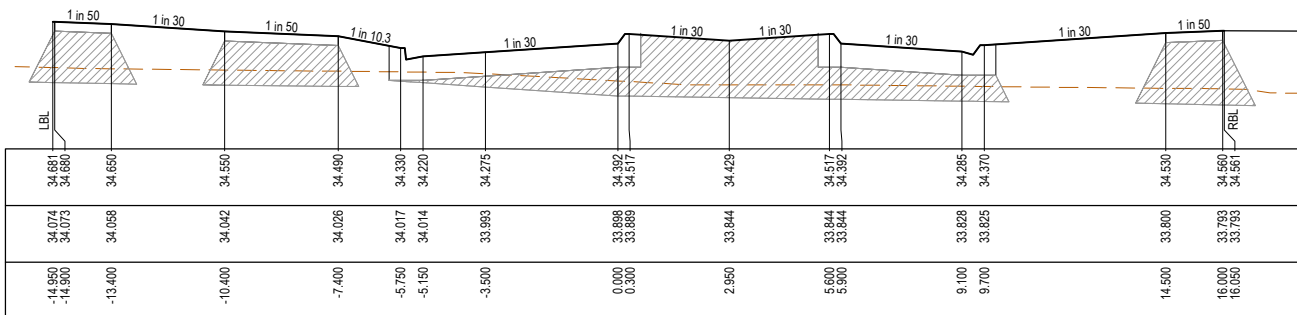


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DESIGN SURFACE

EXISTING SURFACE

OFFSET

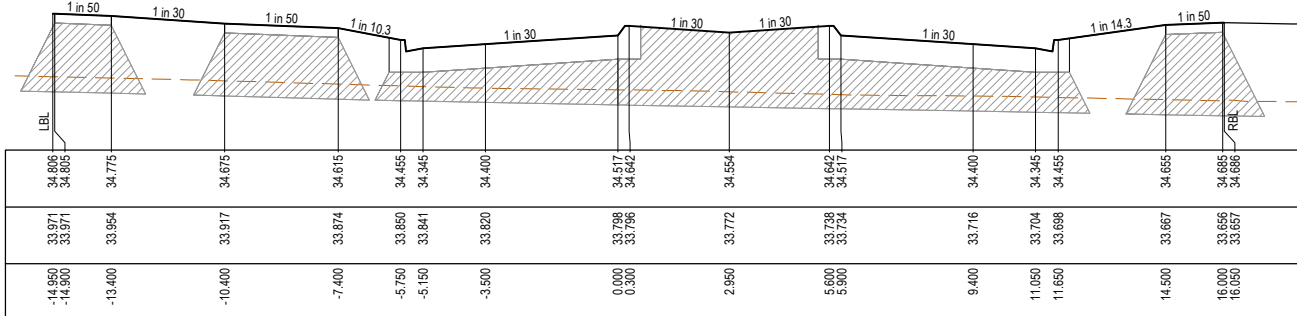


DATUM RL 33.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET

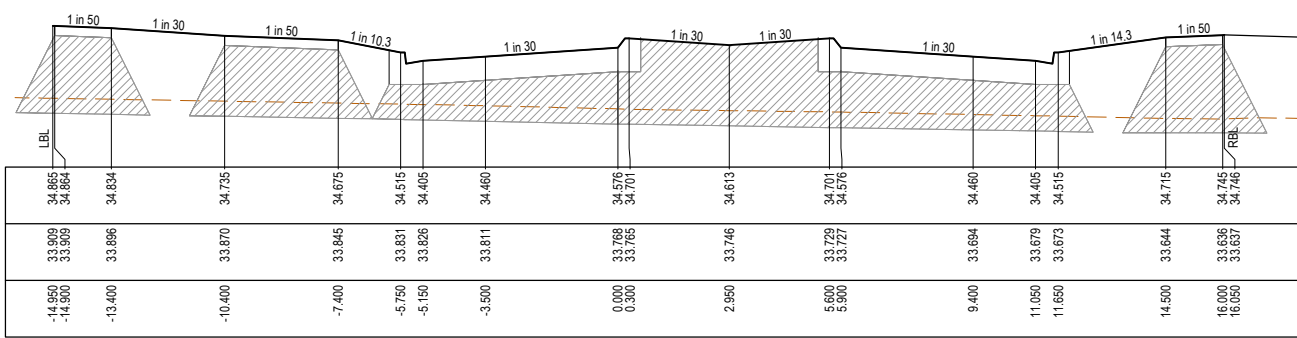


DATUM RL 33.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET



DATUM RL 33.0

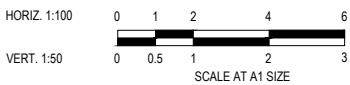
DESIGN SURFACE

EXISTING SURFACE

OFFSET

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P3	SERVICE OFFSETS UPDATED ON GALAH WALK AND CUBBY WALK	07.10.25	HW	CD					
P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.



Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0017236
Date	28.08.25
PS Number	PS931746C

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Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	ROAD CROSS SECTIONS CANTY BOULEVARD (SHEET 1 OF 2)

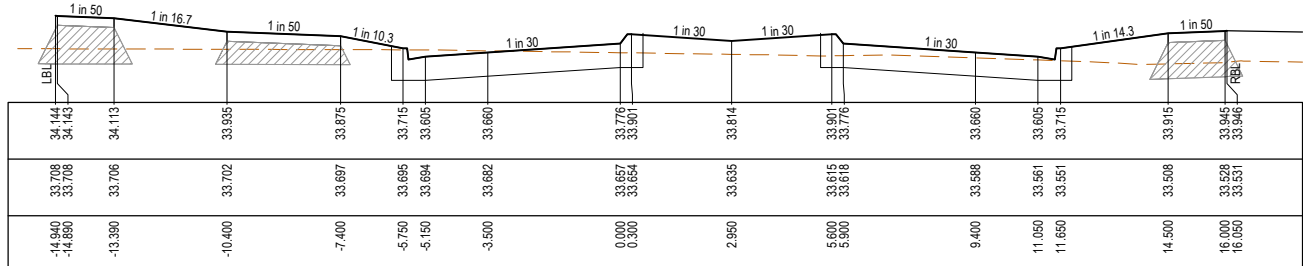
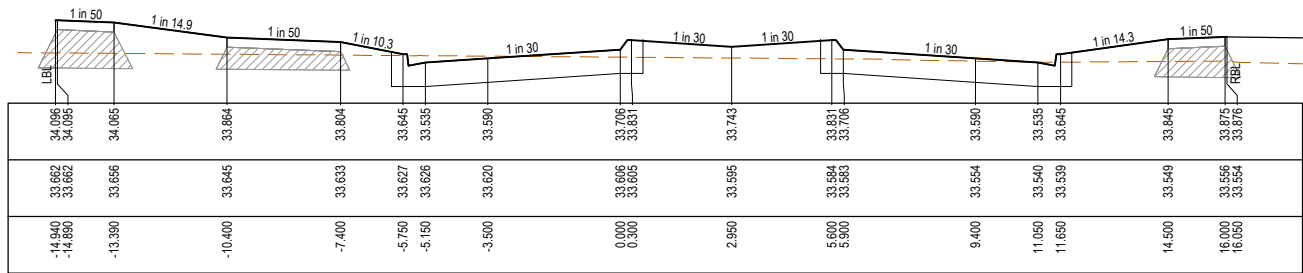
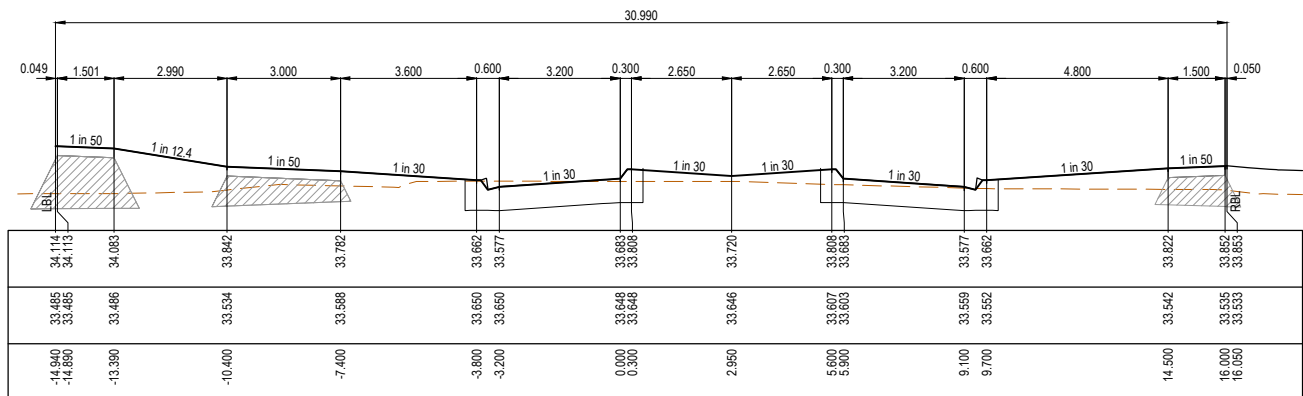
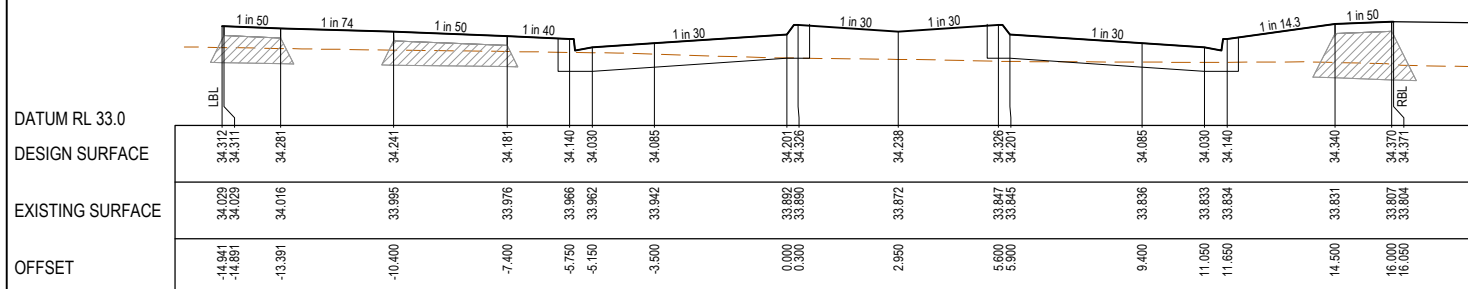
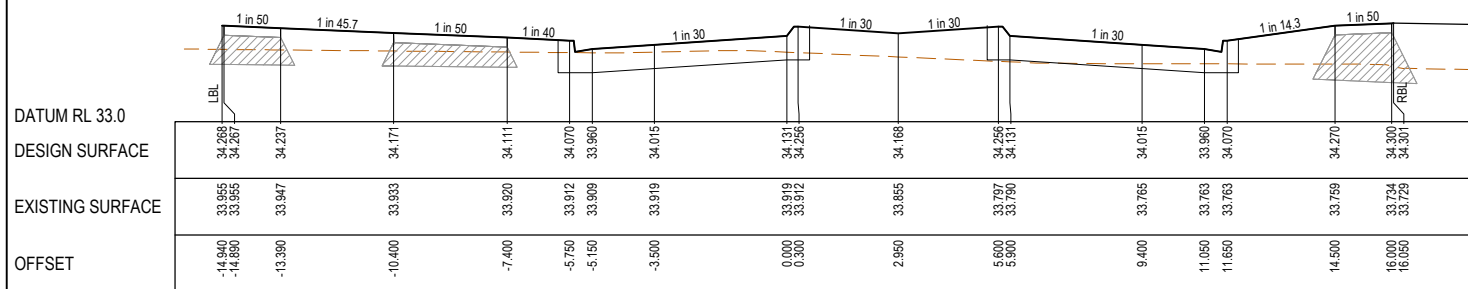
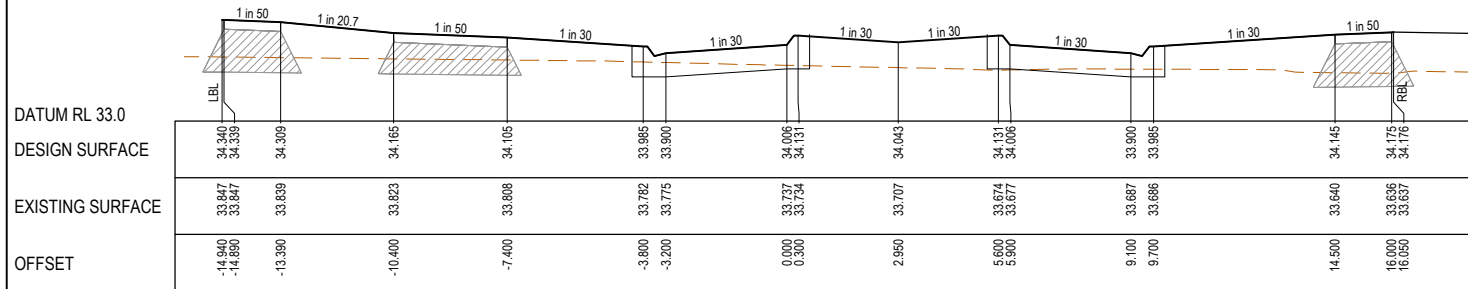
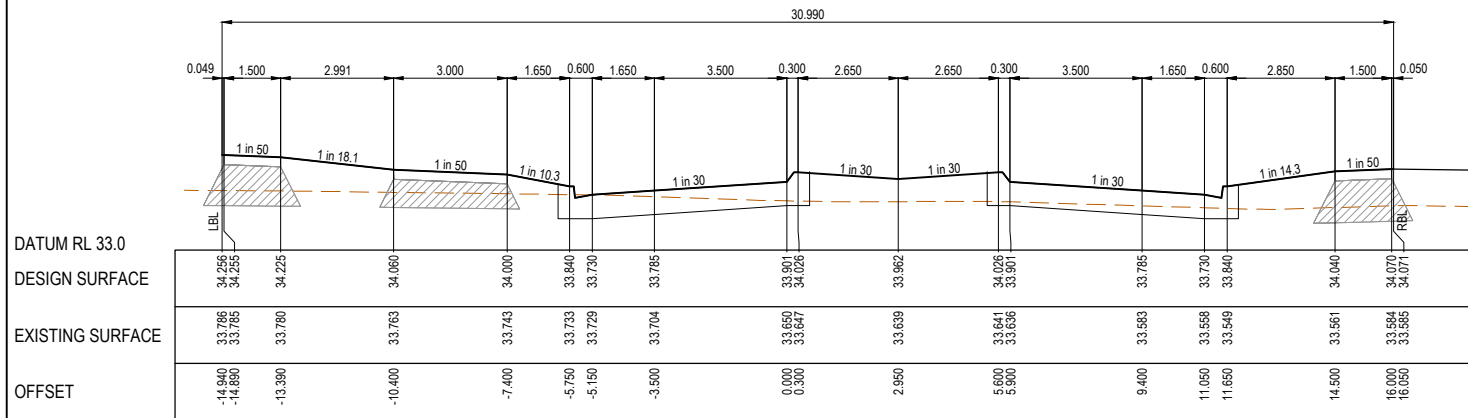
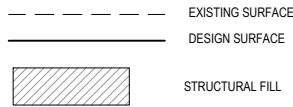
Sheet 34 of 76

Scale
1:100 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	208	P3

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

LEGEND



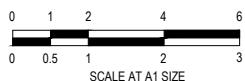
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P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					

HORIZ 1:100

VERT. 1:50



Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
ROAD CROSS SECTIONS
CANTY BOULEVARD
(SHEET 2 OF 2)

Sheet 35 of 76

Scale
1:100 H 1:50 V @ A1

Project Ref 1701814 Stage No 05 Drawing No 209 Rev P3

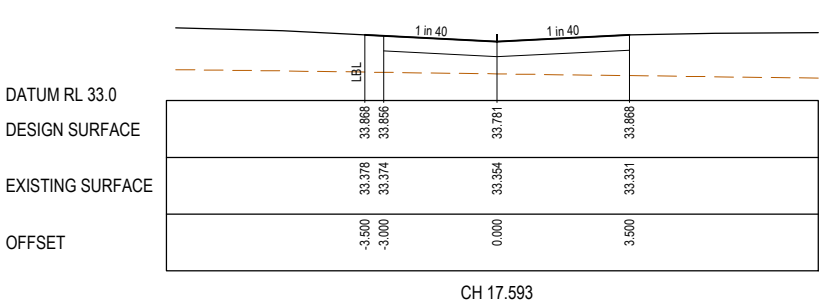
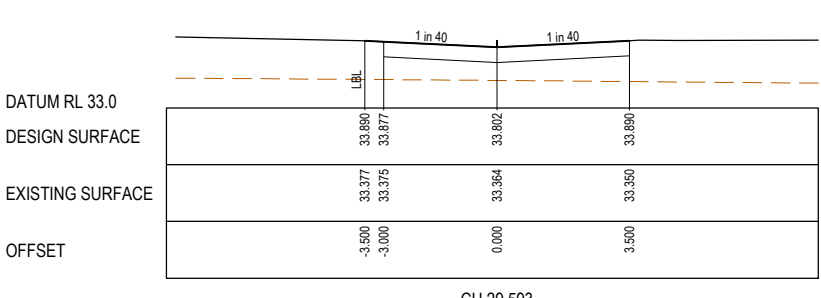
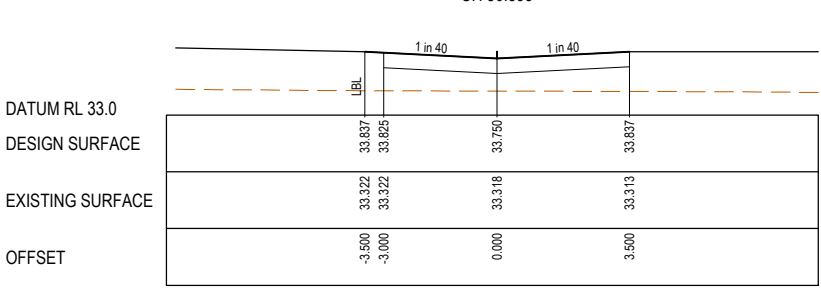
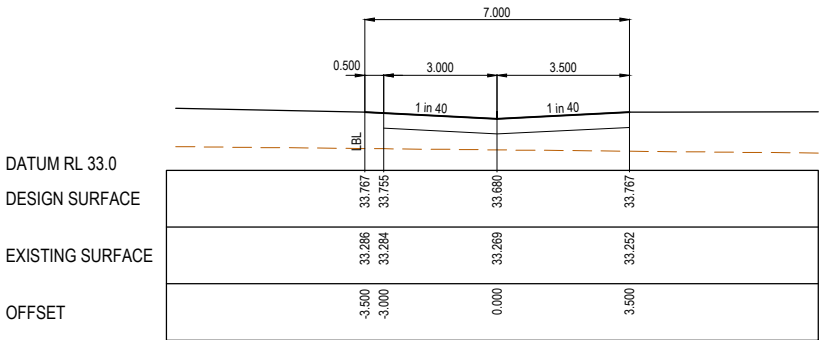
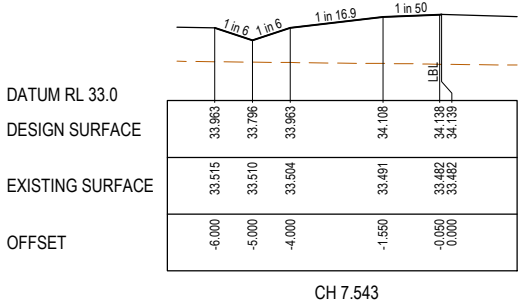
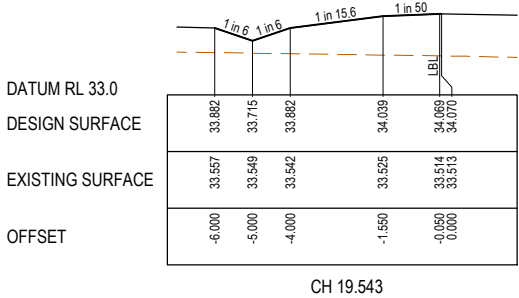
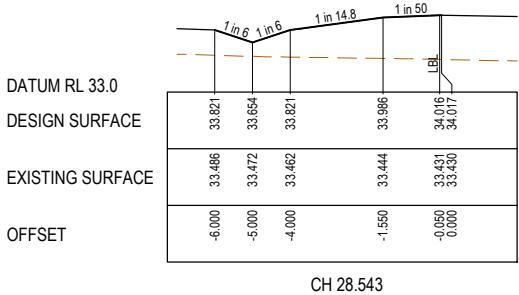
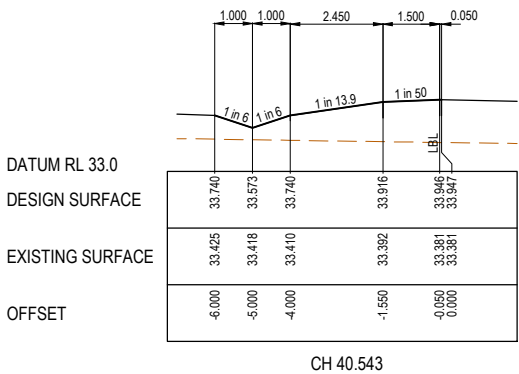
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

LEGEND

EXISTING SURFACE

DESIGN SURFACE

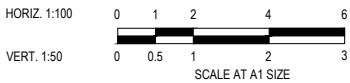
STRUCTURAL FILL



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P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					



Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0012536
Date	28.08.25
PS Number	PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL

Drawing Title
ROAD CROSS SECTIONS
SHED LANE

Sheet 36 of 76

Scale
1:100 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	210	P3

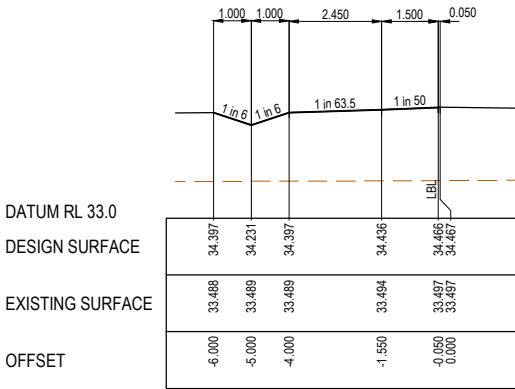
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

LEGEND

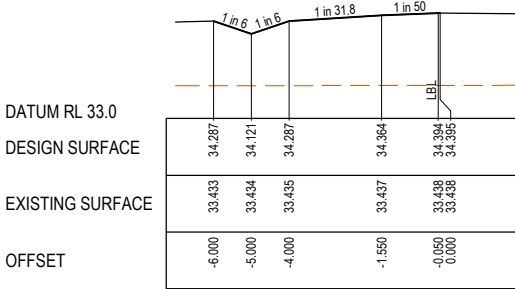
EXISTING SURFACE

DESIGN SURFACE

STRUCTURAL FILL



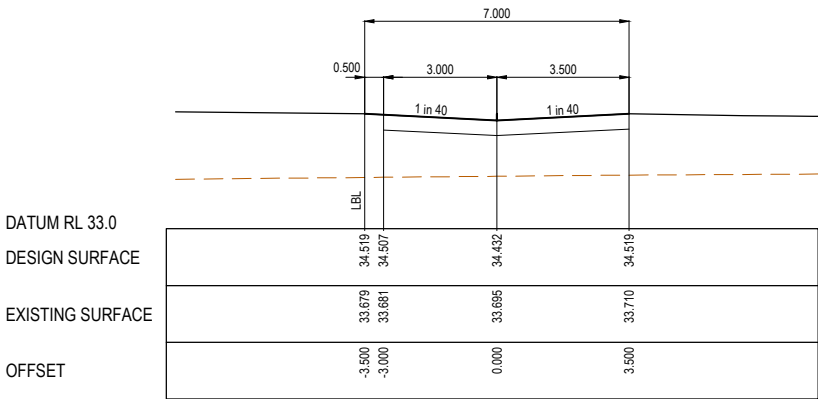
CH 28.200



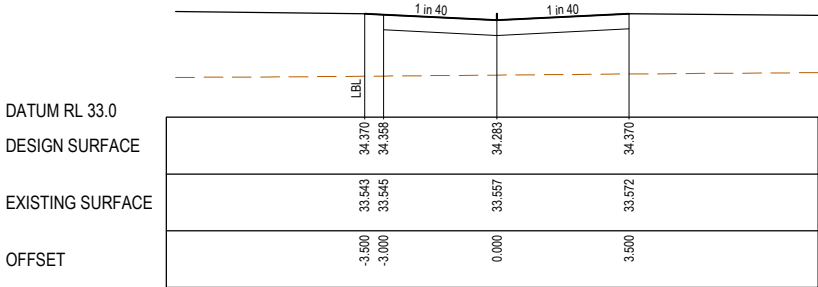
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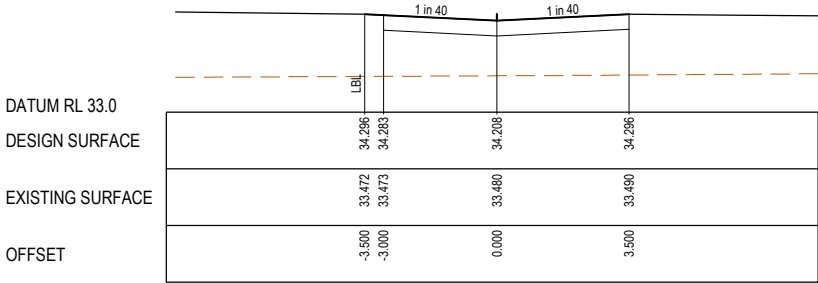
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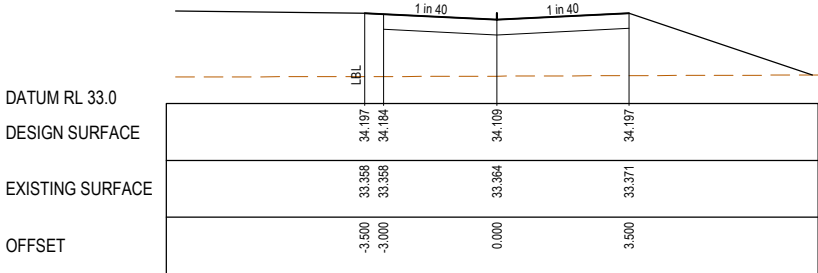
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CH 36.200



CH 27.200

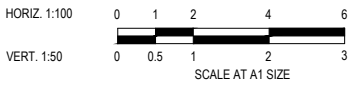


CH 15.200

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P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					



Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0912536
Date	28.08.25
PS Number	PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
ROAD CROSS SECTIONS
FIG LANE

Sheet 37 of 76

Scale
1:100 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	211	P3

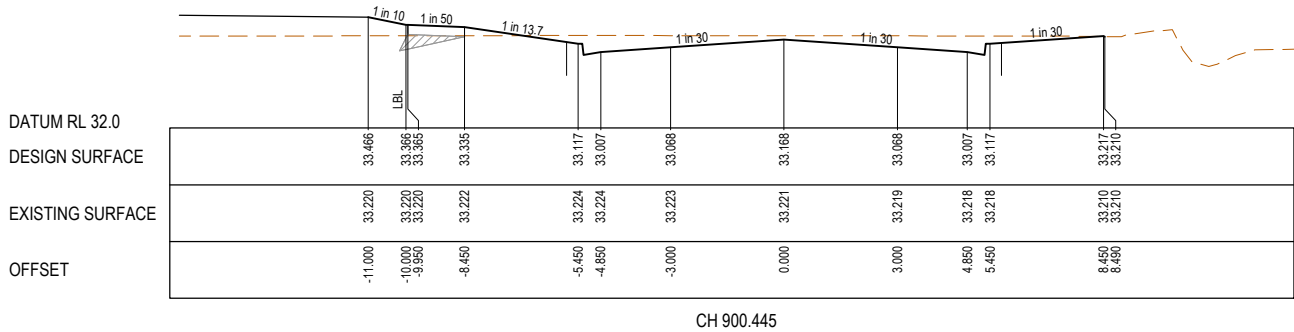
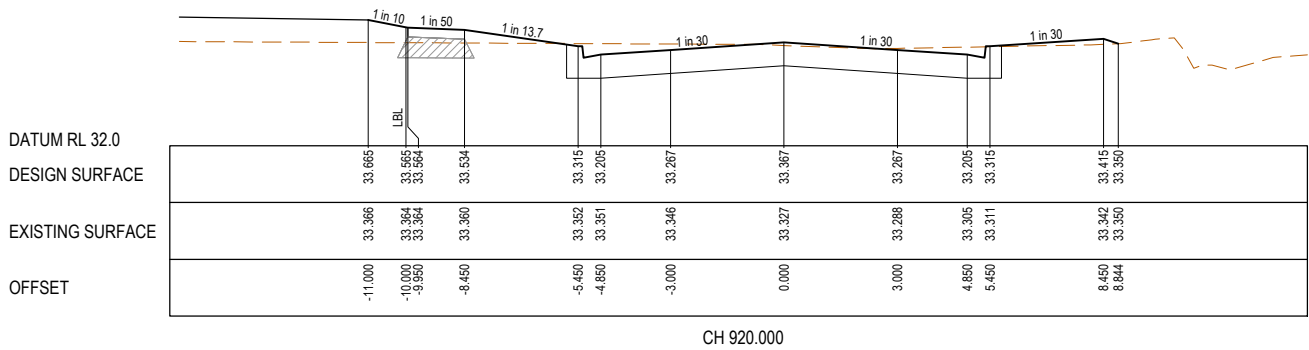
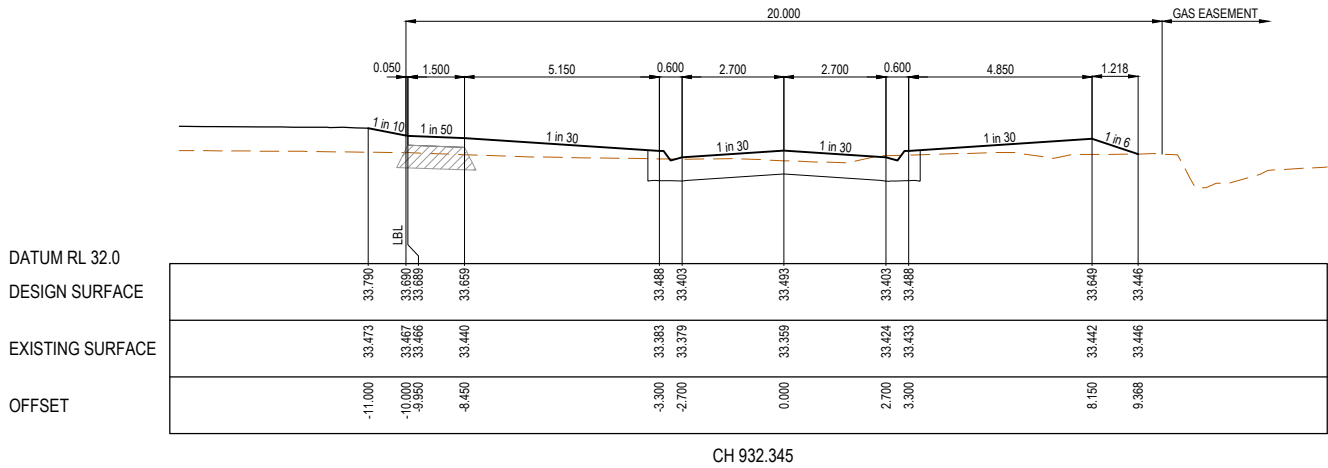
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

LEGEND

EXISTING SURFACE

DESIGN SURFACE

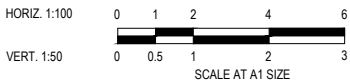
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P3	SERVICE OFFSETS UPDATED ON GALAH WALK AND CUBBY WALK	07.10.25	HW	CD					
P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					



Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

BW

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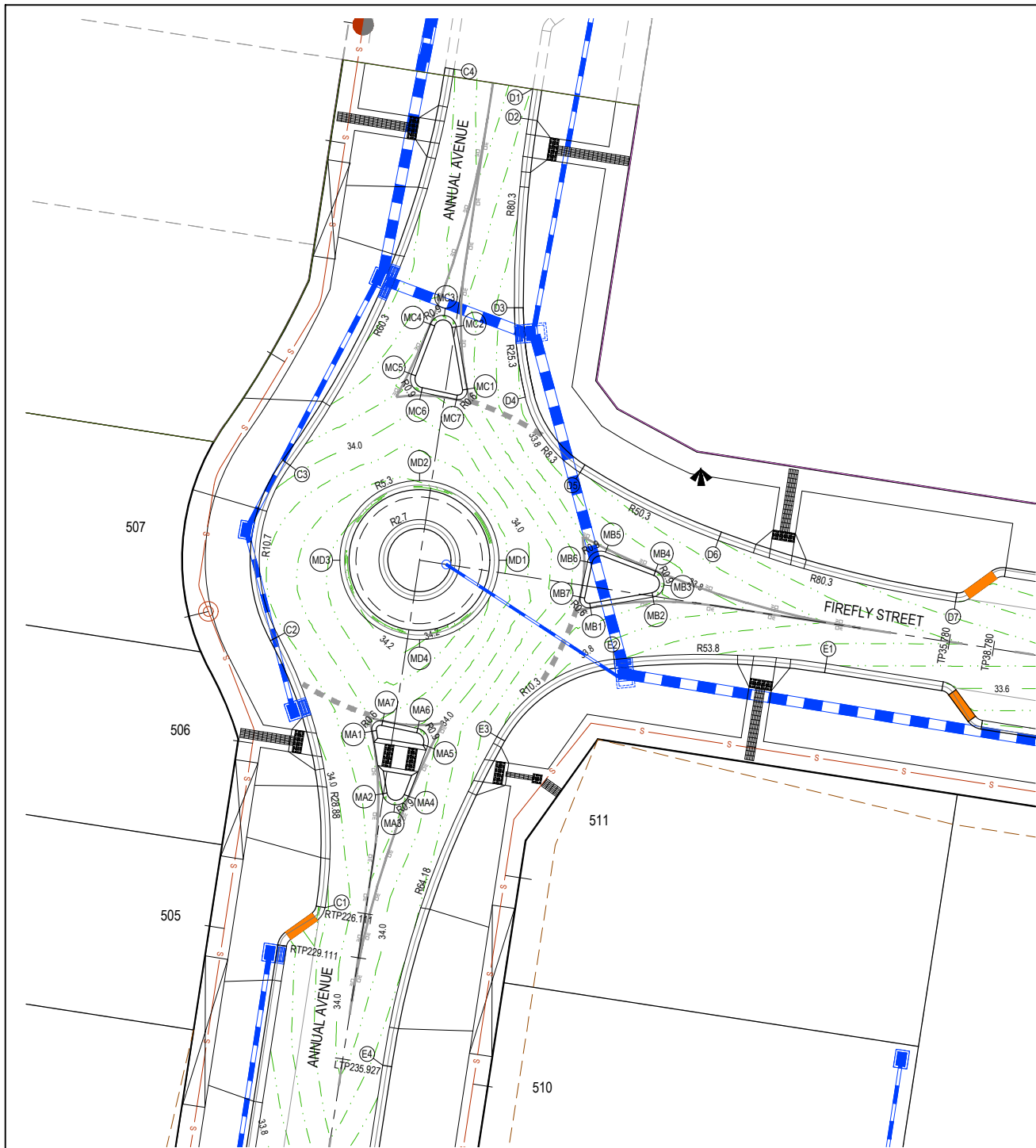
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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
ROAD CROSS SECTIONS
SUNDIAL STREET

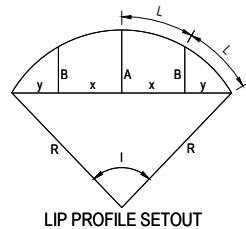
Sheet 39 of 76

Scale
1:100 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	213	P3



- 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



LIP LINE MC

Point no	Easting	Northing	RL
MC1	9959.012	4781.436	33.920
MC2	9958.296	4785.599	33.943
MC3	9957.496	4786.342	33.946
MC4	9956.568	4785.768	33.948
MC5	9955.299	4782.443	33.976
MC6	9955.954	4781.241	33.959
MC7	9958.297	4780.747	33.933

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
MC2 - MC3	74.679	0.900	1.173	0.184	0.137	0.288	0.258	0.293	33.945
MC3 - MC4	74.679	0.900	1.173	0.184	0.137	0.288	0.258	0.293	33.947
MC5 - MC6	98.975	0.900	1.555	0.315	0.233	0.377	0.308	0.389	33.967
MC7 - MC1	111.667	0.600	1.169	0.263	0.193	0.281	0.216	0.292	33.926

LIP LINE MD

Point no	Easting	Northing	RL
MD1	9961.137	4770.026	34.068
MD2	9955.837	4775.326	34.098
MD3	9950.537	4770.026	34.168
MD4	9955.837	4764.726	34.207

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
MD1 - MD2	90.000	5.300	8.325	1.552	1.149	2.028	1.719	2.081	34.081
MD2 - MD3	90.000	5.300	8.325	1.552	1.149	2.028	1.719	2.081	34.133
MD3 - MD4	90.000	5.300	8.325	1.552	1.149	2.028	1.719	2.081	34.198
MD4 - MD1	90.000	5.300	8.325	1.552	1.149	2.028	1.719	2.081	34.128

LIP LINE MA

Point no	Easting	Northing	RL
MA1	9952.662	4758.615	34.119
MA2	9953.377	4754.452	34.101
MA3	9954.177	4753.709	34.068
MA4	9955.105	4754.284	34.034
MA5	9956.374	4757.608	34.016
MA6	9955.719	4758.810	34.045
MA7	9953.377	4759.304	34.095

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
MA2 - MA3	74.679	0.900	1.173	0.184	0.137	0.288	0.258	0.293	34.084
MA3 - MA4	74.679	0.900	1.173	0.184	0.137	0.288	0.258	0.293	34.051
MA5 - MA6	98.975	0.900	1.555	0.315	0.233	0.377	0.308	0.389	34.029
MA7 - MA1	111.667	0.600	1.169	0.263	0.193	0.281	0.216	0.292	34.107

LIP LINE MB

Point no	Easting	Northing	RL
MB1	9967.247	4766.851	33.884
MB2	9971.410	4767.566	33.862
MB3	9972.154	4768.366	33.847
MB4	9971.579	4769.294	33.832
MB5	9968.254	4770.563	33.860
MB6	9967.052	4769.908	33.868
MB7	9966.558	4767.566	33.878

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
MB2 - MB3	74.679	0.900	1.173	0.184	0.137	0.288	0.258	0.293	33.854
MB3 - MB4	74.679	0.900	1.173	0.184	0.137	0.288	0.258	0.293	33.840
MB5 - MB6	98.975	0.900	1.555	0.315	0.233	0.377	0.308	0.389	33.864
MB7 - MB1	111.667	0.600	1.169	0.263	0.193	0.281	0.216	0.292	33.881

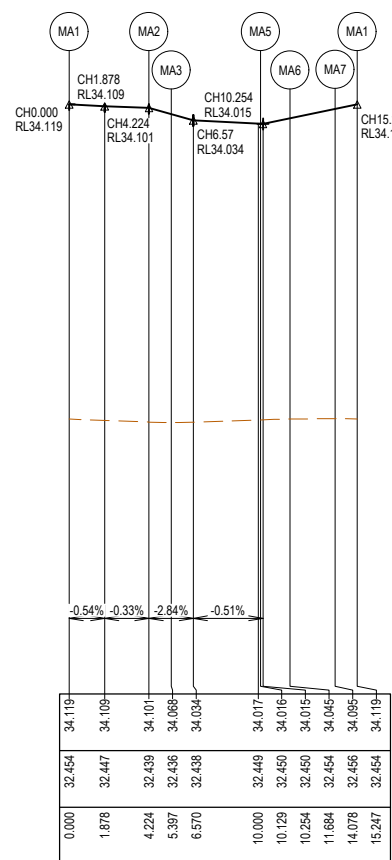
VERTICAL GEOMETRY

DATUM RL 31

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE MA

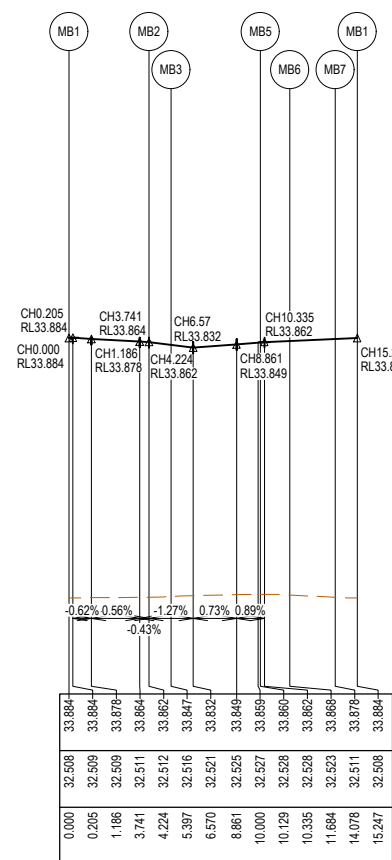
VERTICAL GEOMETRY

DATUM RL 32

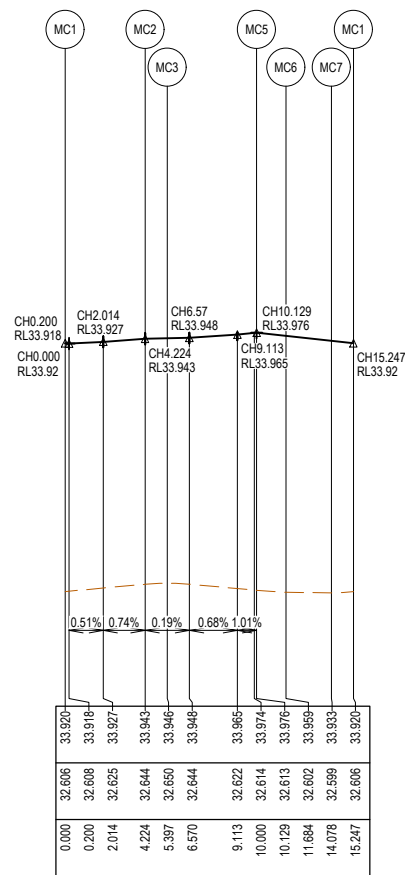
DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE MB



LIP LINE MC

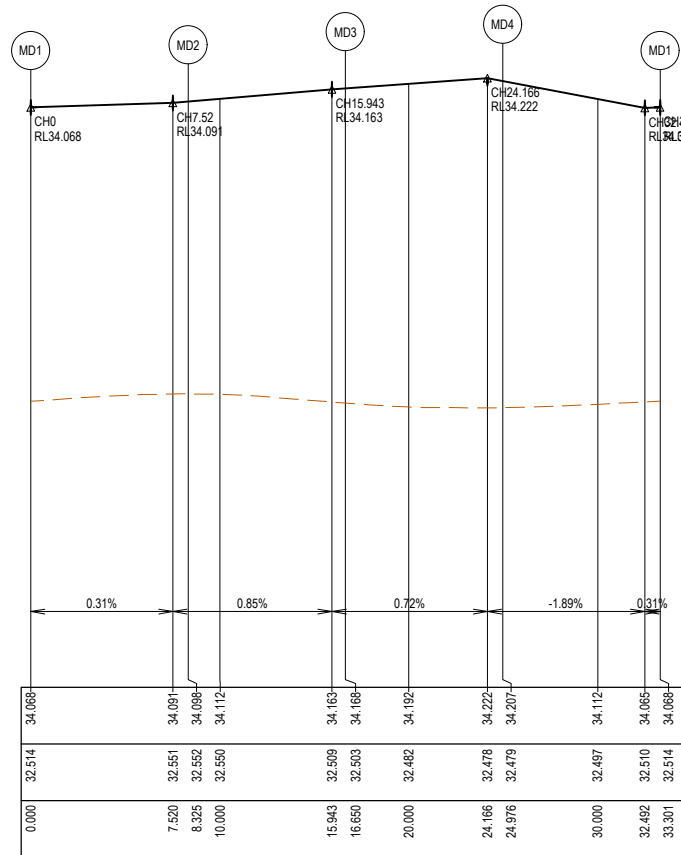
VERTICAL GEOMETRY

DATUM RL 31

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE MD

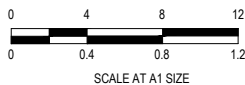
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P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					

HORIZ 1:200

VERT 1:20



Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE001258
Date 28.08.25
PS Number PS931746C

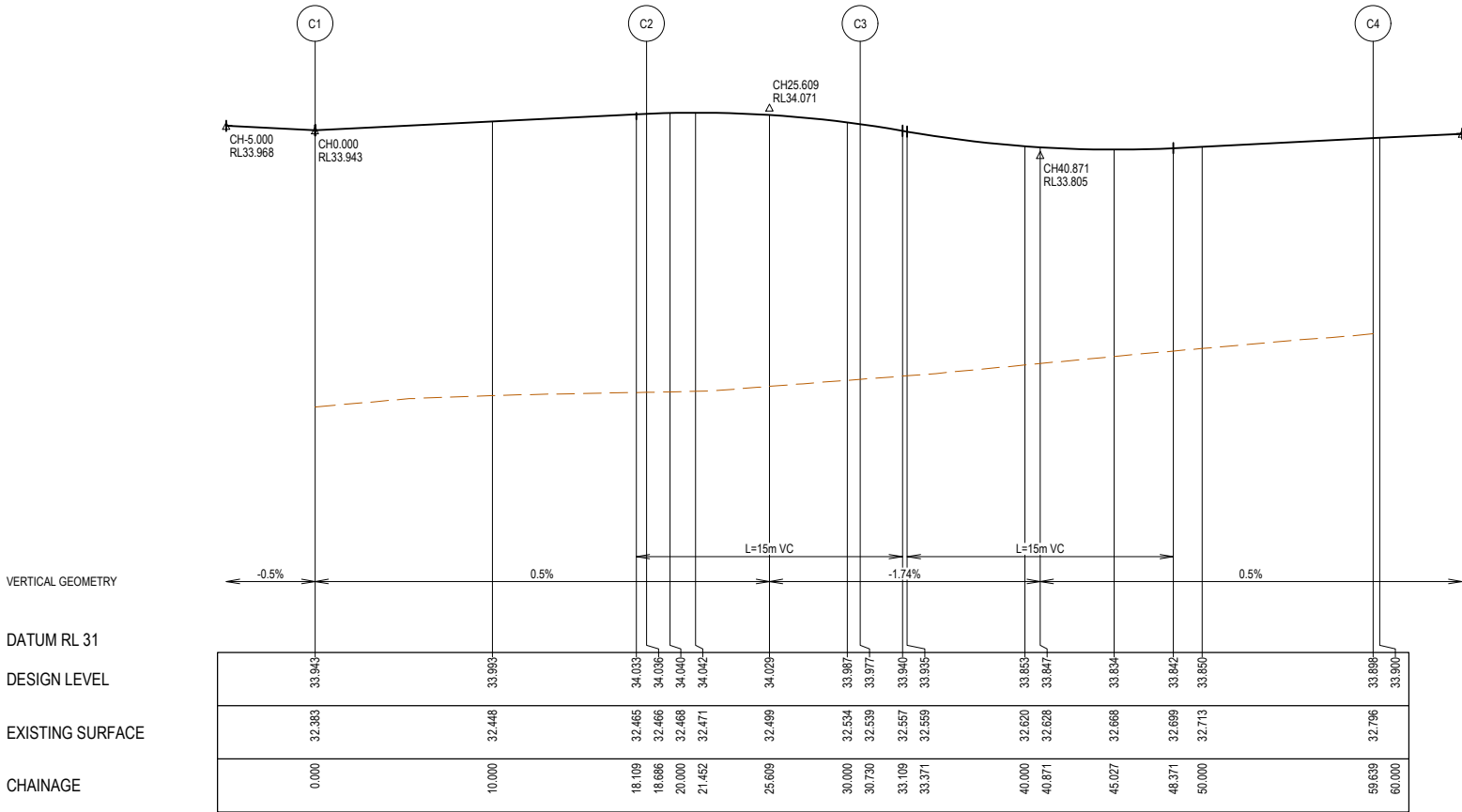
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Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
INTERSECTION DETAILS
(SHEET 1 OF 13)

Sheet 40 of 76

Scale
1:200 H 1:20 V @ A1

Project Ref 1701814
Stage No 05
Drawing No 300
Rev P3



LIP LINE C

Point no	Easting	Northing	RL
C1	9949.539	4746.854	33.943
C2	9946.418	4764.949	34.036
C3	9947.198	4776.340	33.977
C4	9958.147	4802.797	33.899

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
C1 - C2	37.072	28.880	18.686	1.498	1.121	4.651	4.530	4.672	33.989
C2 - C3	64.489	10.700	12.043	1.650	1.229	2.971	2.738	3.011	34.034
C3 - C4	27.469	60.300	28.909	1.724	1.292	7.210	7.107	7.227	33.834

LIP LINE D

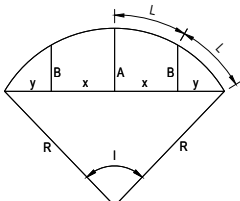
Point no	Easting	Northing	RL
D1	9963.408	4801.478	33.896
D2	9963.096	4799.452	33.885
D3	9962.163	4786.877	33.819
D4	9962.902	4780.922	33.788
D5	9966.555	4775.878	33.754
D6	9975.766	4771.347	33.701
D7	9991.611	4767.253	33.615

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
D2 - D3	9.006	80.300	12.622	0.248	0.186	3.155	3.150	3.156	33.852
D3 - D4	13.623	25.300	6.015	0.179	0.134	1.503	1.498	1.504	33.804
D4 - D5	44.069	8.300	6.384	0.606	0.453	1.586	1.528	1.596	33.771
D5 - D6	11.714	50.300	10.283	0.263	0.197	2.570	2.563	2.571	33.727
D6 - D7	11.697	80.300	16.394	0.418	0.313	4.097	4.086	4.098	33.658

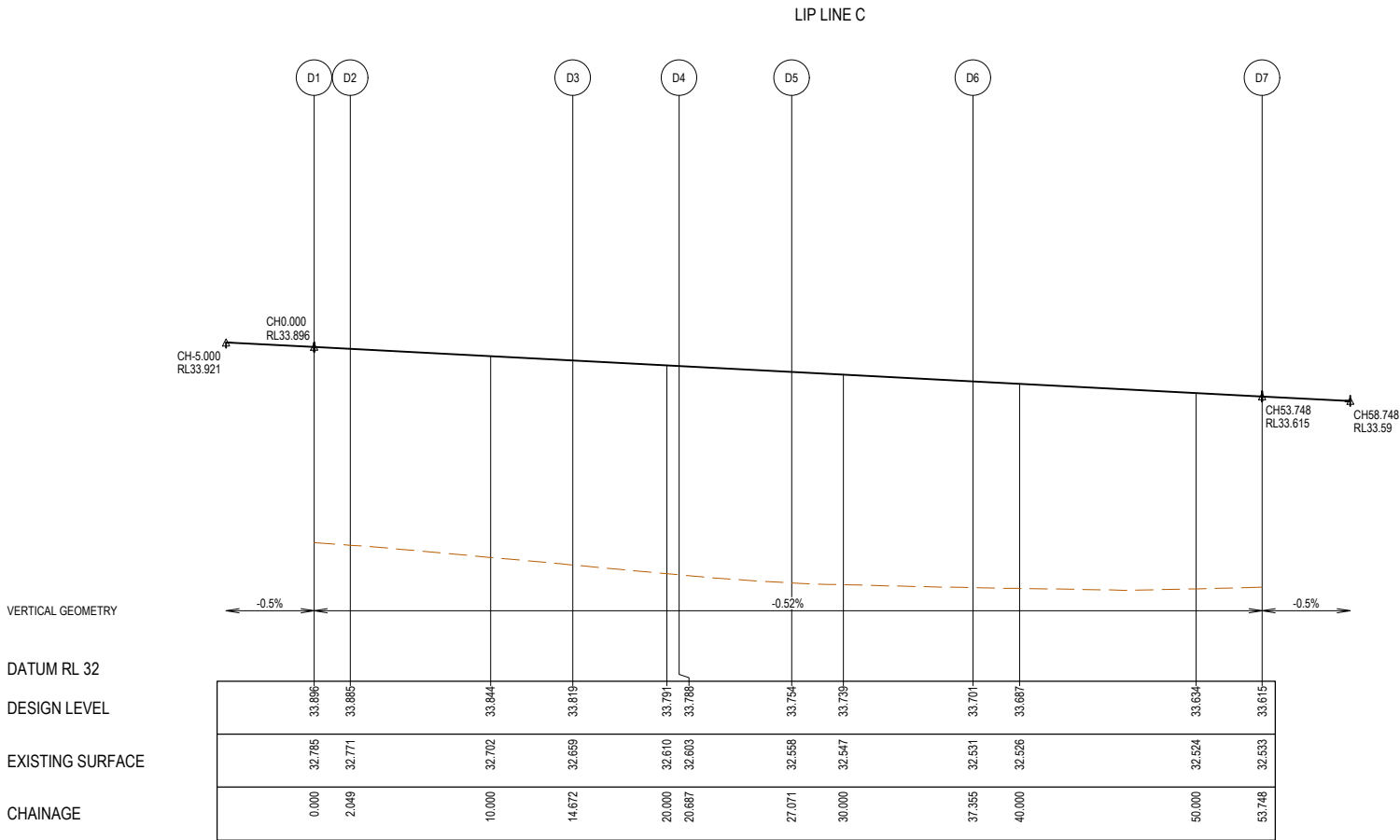
LIP LINE E

Point no	Easting	Northing	RL
E1	9982.972	4763.118	33.655
E2	9968.822	4763.412	33.628
E3	9961.008	4758.262	33.946
E4	9953.384	4736.331	33.923

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
E1 - E2	15.117	53.800	14.195	0.467	0.350	3.546	3.531	3.549	33.741
E2 - E3	54.040	10.300	9.715	1.124	0.839	2.406	2.273	2.429	33.887
E3 - E4	20.843	64.176	23.346	1.059	0.793	5.829	5.780	5.837	34.000



LIP PROFILE SETOUT



LIP LINE D

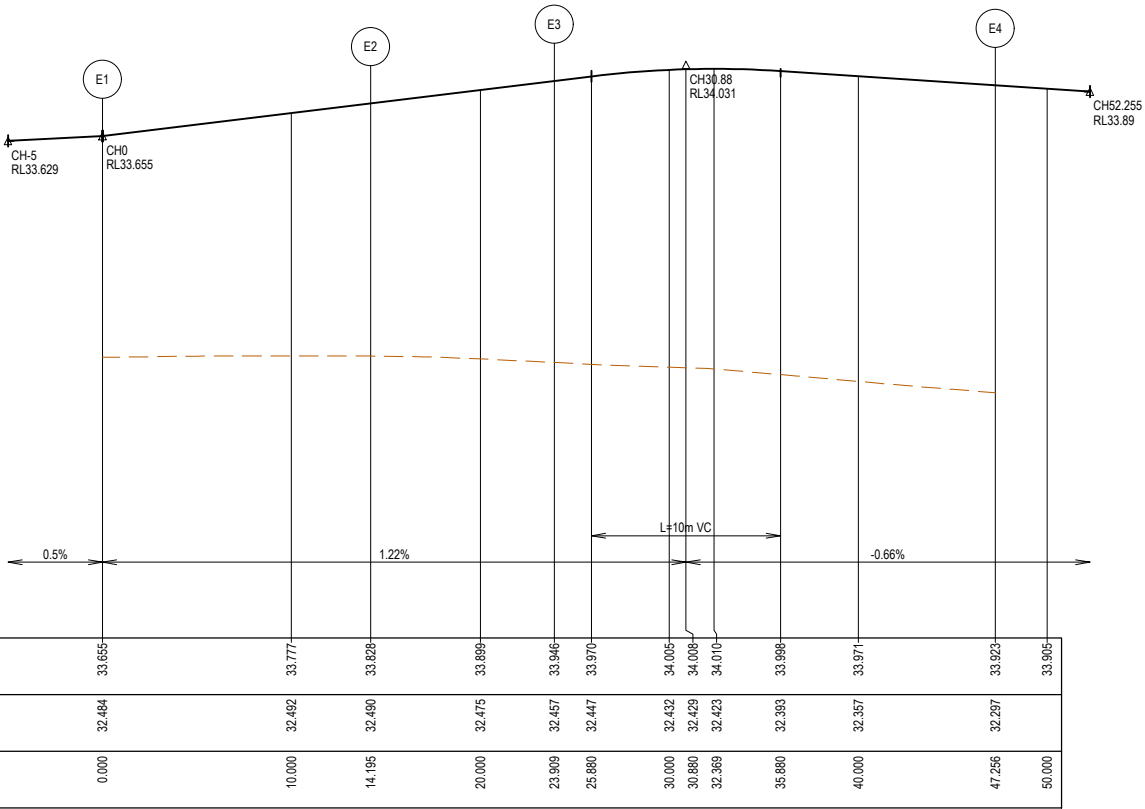
VERTICAL GEOMETRY

DATUM RL 31

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE

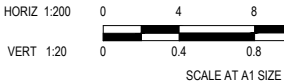


LIP LINE E

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Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0012536
Date	28.08.25
PS Number	PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL

Drawing Title
INTERSECTION DETAILS
(SHEET 2 OF 13)

Sheet 41 of 76

Scale
1:200 H 1:20 V @ A1

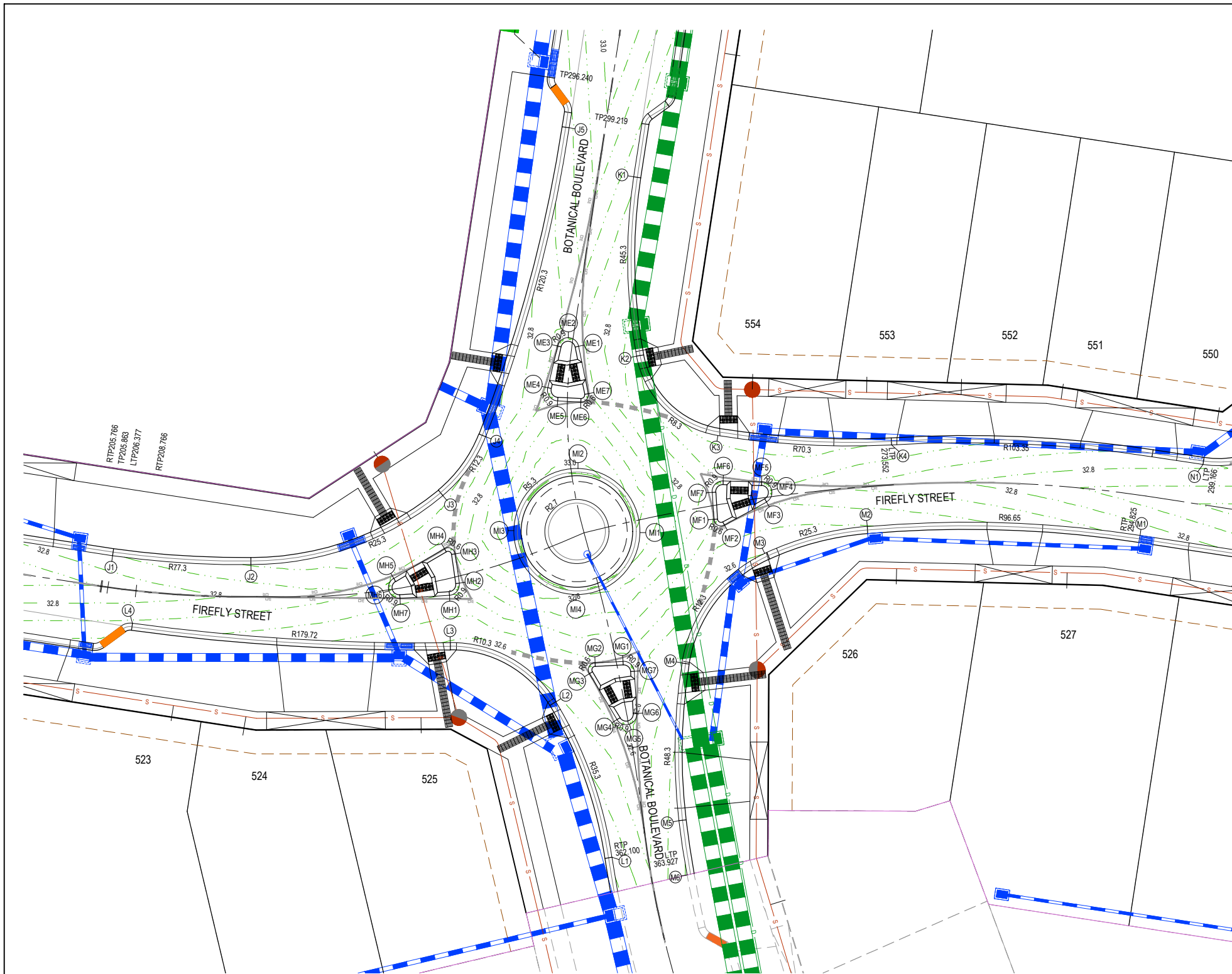
Project Ref
1701814

Stage No
05

Drawing No
301

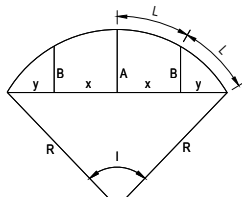
Rev
P3





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



LIP PROFILE SETOUT

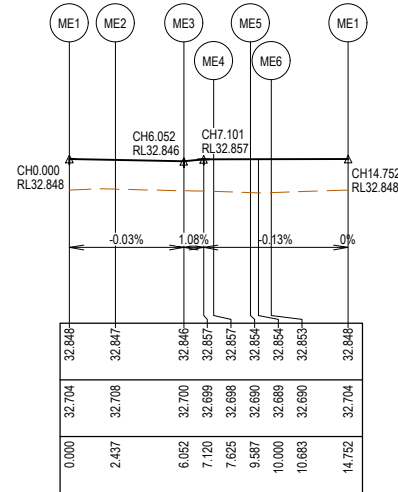
VERTICAL GEOMETRY

DATUM RL 32

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE ME

LIP LINE ME

Point no	Easting	Northing	RL
ME1	10199.455	4758.947	32.848
ME2	10198.587	4759.666	32.847
ME3	10197.697	4758.974	32.847
ME4	10196.864	4755.456	32.846
ME5	10197.690	4754.350	32.857
ME6	10199.649	4754.242	32.854
ME7	10200.270	4754.961	32.853

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
ME1 - ME2	77.560	0.900	1.218	0.198	0.147	0.299	0.265	0.305	32.847
ME2 - ME3	77.560	0.900	1.218	0.198	0.147	0.299	0.265	0.305	32.847
ME4 - ME5	100.163	0.900	1.573	0.322	0.238	0.381	0.309	0.393	32.854
ME6 - ME7	104.715	0.600	1.097	0.234	0.172	0.265	0.210	0.274	32.854

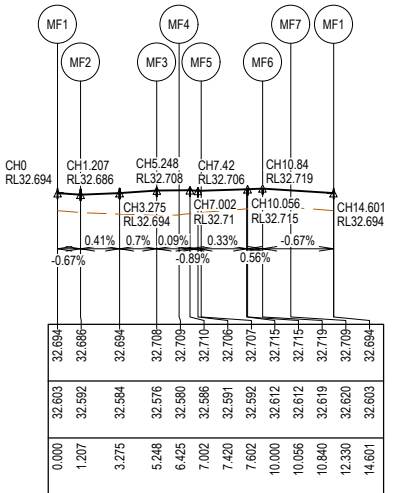
VERTICAL GEOMETRY

DATUM RL 32

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE MF

LIP LINE MF

Point no	Easting	Northing	RL
MF1	10210.853	4744.375	32.694
MF2	10211.740	4743.886	32.686
MF3	10215.282	4745.833	32.708
MF4	10215.722	4746.836	32.709
MF5	10214.869	4747.522	32.707
MF6	10211.632	4747.597	32.719
MF7	10210.713	4746.642	32.709

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
MF1 - MF2	115.279	0.600	1.207	0.279	0.205	0.289	0.218	0.302	32.690
MF3 - MF4	74.934	0.900	1.177	0.186	0.138	0.289	0.258	0.294	32.709
MF4 - MF5	74.934	0.900	1.177	0.186	0.138	0.289	0.258	0.294	32.710
MF6 - MF7	94.853	0.900	1.490	0.291	0.215	0.362	0.301	0.372	32.714

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P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					

HORIZ 1:200

0 4 8 12

VERT 1:20

0 0.4 0.8 1.2

SCALE AT A1 SIZE

Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
INTERSECTION DETAILS
(SHEET 3 OF 13)

Sheet 42 of 76

Scale 1:200 H 1:20 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	302	P3



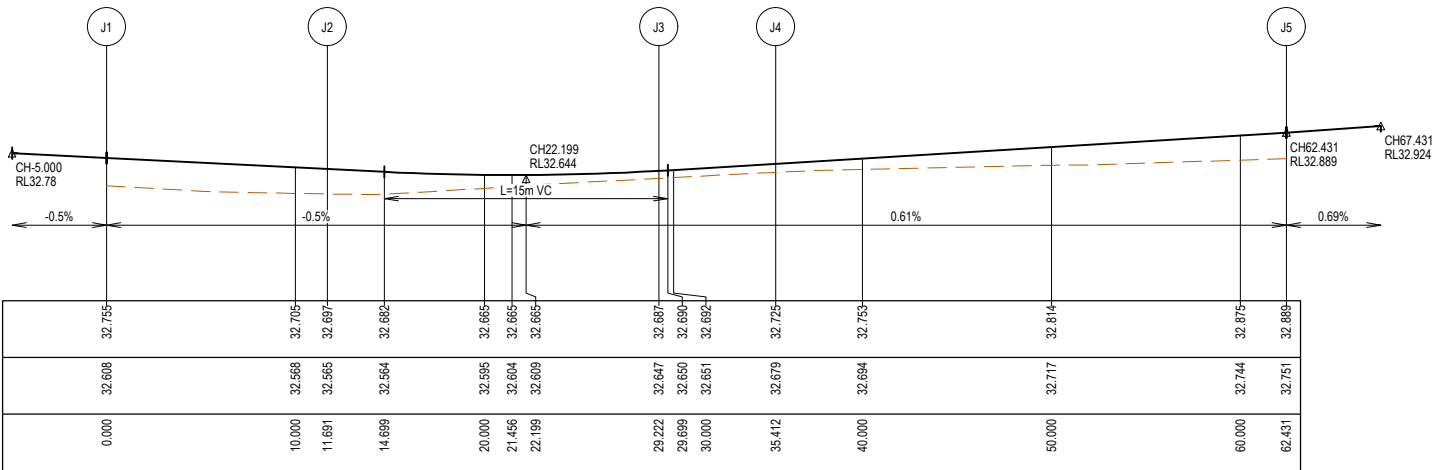
VERTICAL GEOMETRY

DATUM RL 32

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE J

Point no	Easting	Northing	RL
J1	10160.204	4741.311	32.755
J2	10171.860	4740.560	32.697
J3	10188.030	4746.369	32.687
J4	10191.628	4751.325	32.725
J5	10198.663	4777.354	32.889

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
J1 - J2	8.666	77.300	11.691	0.221	0.166	2.922	2.918	2.923	32.726
J2 - J3	39.701	25.300	17.531	1.503	1.125	4.361	4.230	4.383	32.665
J3 - J4	28.832	12.300	6.190	0.387	0.290	1.543	1.519	1.547	32.706
J4 - J5	12.869	120.300	27.019	0.758	0.568	6.751	6.730	6.755	32.807

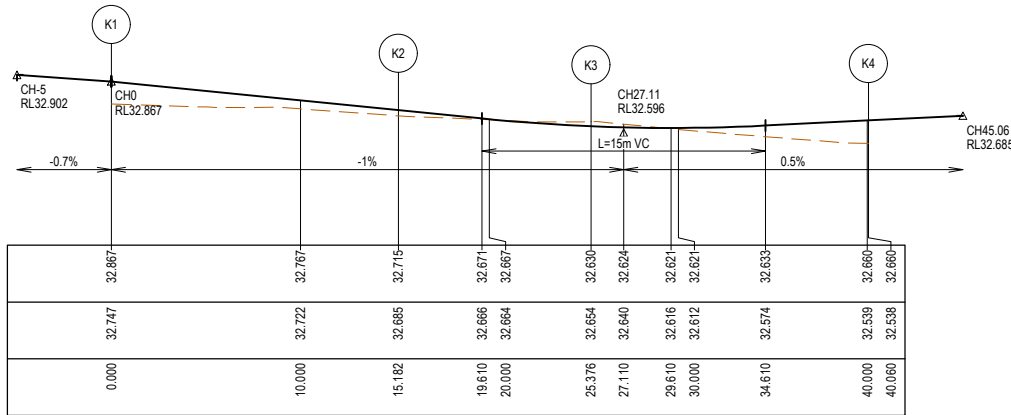
VERTICAL GEOMETRY

DATUM RL 32

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE K

Point no	Easting	Northing	RL
K1	10204.101	4773.225	32.867
K2	10204.342	4758.117	32.715
K3	10211.188	4751.436	32.630
K4	10225.823	4750.636	32.660

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
K1 - K2	19.202	45.300	15.182	0.635	0.476	3.791	3.764	3.795	32.791
K2 - K3	70.373	8.300	10.194	1.517	1.128	2.509	2.274	2.549	32.664
K3 - K4	11.967	70.300	14.684	0.383	0.287	3.669	3.659	3.671	32.626

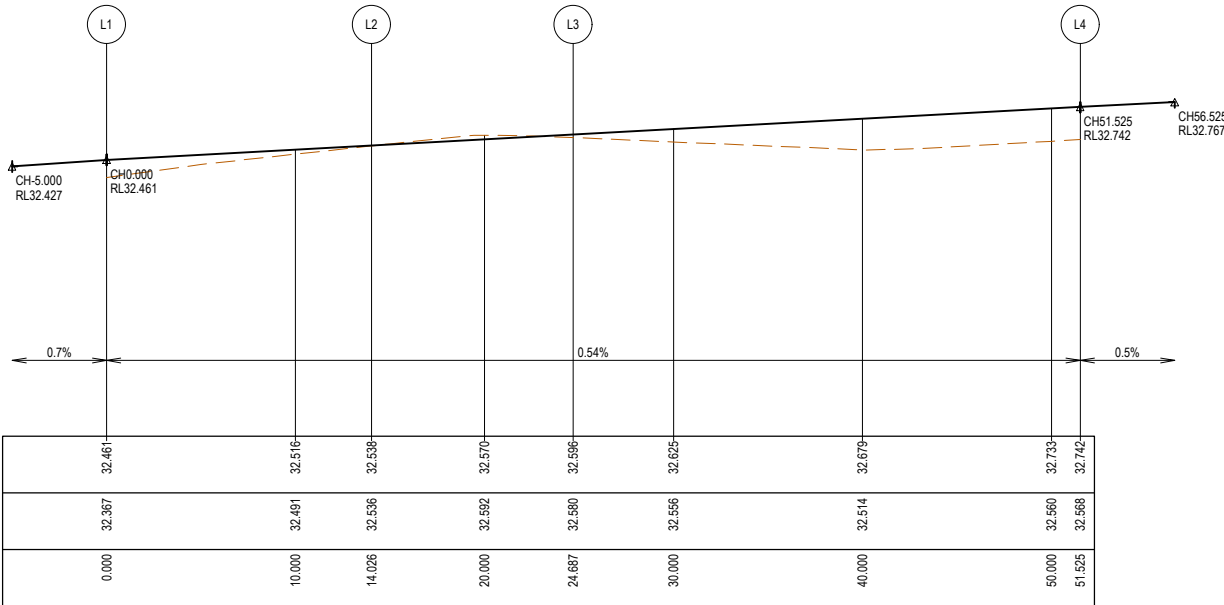
VERTICAL GEOMETRY

DATUM RL 31

DESIGN LEVEL

EXISTING SURFACE

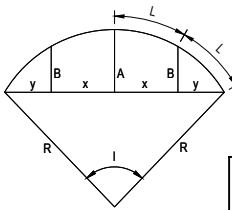
CHAINAGE



LIP LINE L

Point no	Easting	Northing	RL
L1	10202.268	4715.899	32.461
L2	10197.545	4729.008	32.538
L3	10188.844	4733.912	32.596
L4	10161.882	4735.614	32.742

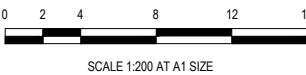
Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
L1 - L2	22.766	35.300	14.026	0.694	0.520	3.501	3.466	3.507	32.500
L2 - L3	59.306	10.300	10.661	1.349	1.006	2.636	2.460	2.665	32.567
L3 - L4	8.556	179.715	26.837	0.501	0.375	6.708	6.698	6.709	32.669



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Designed	N.SMOLENAARS
Date	28.08.25
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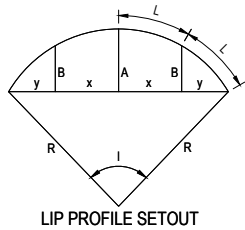
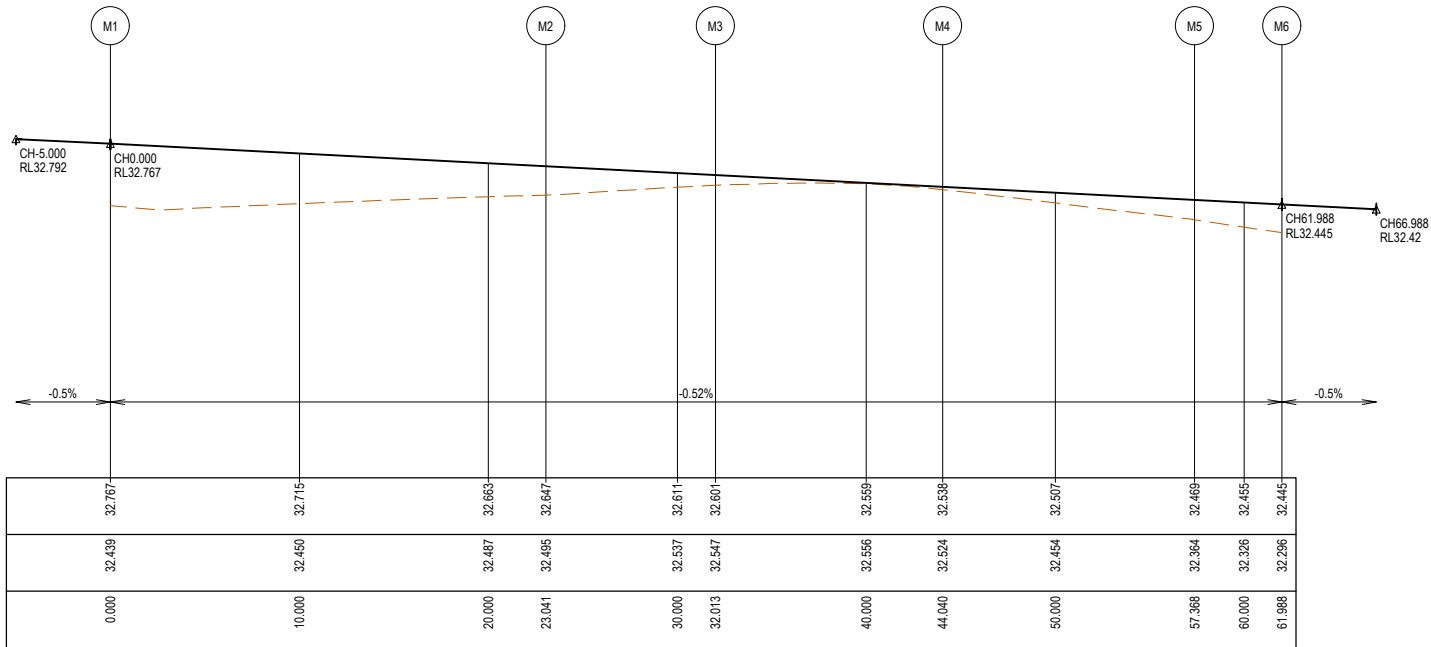
Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
INTERSECTION DETAILS
(SHEET 4 OF 13)

Sheet 43 of 76

Scale
1:200 @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	303	P3



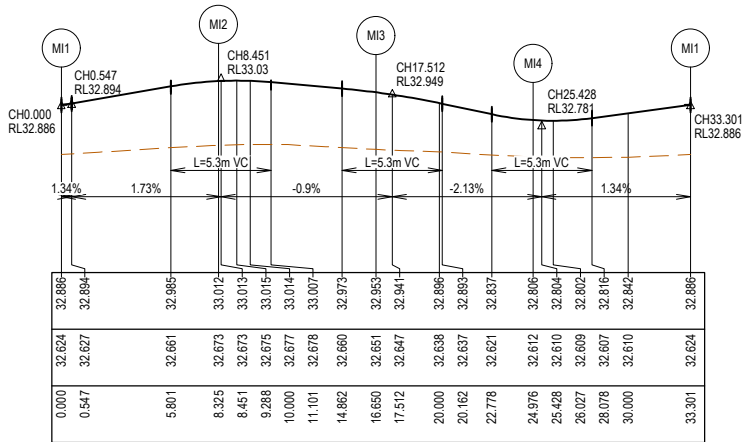
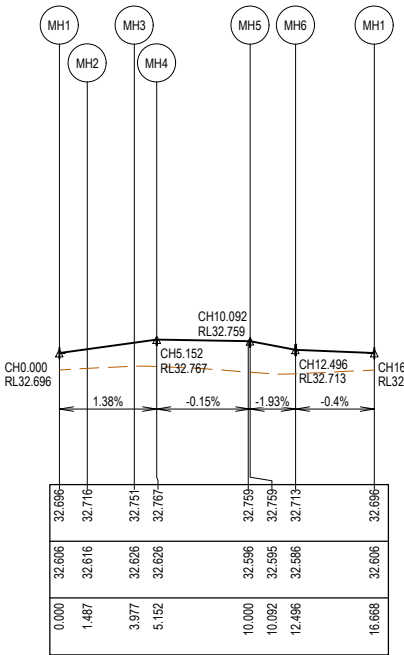
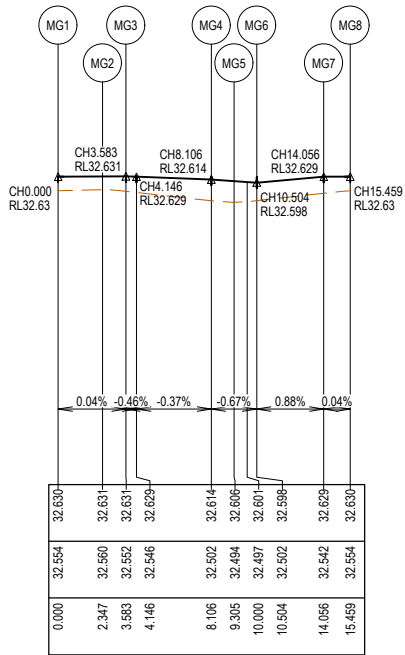


LIP LINE M

Point no	Easting	Northing	RL
M1	10246.736	4743.020	32.767
M2	10223.761	4743.765	32.647
M3	10215.131	4741.488	32.601
M4	10208.171	4732.267	32.538
M5	10207.909	4718.985	32.469
M6	10208.591	4714.416	32.445

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
M1 - M2	13.659	96.650	23.041	0.686	0.514	5.757	5.736	5.760	32.707
M2 - M3	20.318	25.300	8.972	0.397	0.297	2.240	2.222	2.243	32.624
M3 - M4	56.025	12.300	12.027	1.441	1.075	2.977	2.800	3.007	32.570
M4 - M5	15.810	48.300	13.327	0.459	0.344	3.329	3.313	3.332	32.504
M5 - M6	3.438	77.000	4.620	0.035	0.026	1.155	1.155	1.155	32.457

LIP LINE M



LIP LINE MG

LIP LINE MG

Point no	Easting	Northing	RL
MG1	10203.193	4732.405	32.630
MG2	10200.849	4732.283	32.631
MG3	10200.366	4731.375	32.631
MG4	10202.696	4727.498	32.614
MG5	10203.735	4727.102	32.606
MG6	10204.365	4728.019	32.598
MG7	10204.138	4731.564	32.629

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
MG2 - MG3	118.026	0.600	1.236	0.291	0.213	0.296	0.219	0.309	32.631
MG4 - MG5	76.334	0.900	1.199	0.192	0.143	0.294	0.262	0.300	32.610
MG5 - MG6	76.334	0.900	1.199	0.192	0.143	0.294	0.262	0.300	32.602
MG7 - MG1	89.306	0.900	1.403	0.260	0.192	0.342	0.291	0.351	32.629

LIP LINE MH

Point no	Easting	Northing	RL
MH1	10188.577	4737.972	32.716
MH2	10189.412	4738.999	32.716
MH3	10189.055	4741.463	32.751
MH4	10188.157	4741.894	32.767
MH5	10183.900	4739.389	32.759
MH6	10183.496	4738.350	32.736
MH7	10184.412	4737.715	32.713

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
MH1 - MH2	94.691	0.900	1.487	0.290	0.214	0.361	0.301	0.372	32.706
MH3 - MH4	112.252	0.600	1.175	0.266	0.195	0.282	0.216	0.294	32.759
MH5 - MH6	76.528	0.900	1.202	0.193	0.144	0.295	0.262	0.301	32.748
MH6 - MH7	76.528	0.900	1.202	0.193	0.144	0.295	0.262	0.301	32.724

LIP LINE MI

Point no	Easting	Northing	RL
MI1	10204.617	4743.252	32.886
MI2	10199.400	4748.634	33.012
MI3	10194.018	4743.418	32.953
MI4	10199.235	4738.036	32.806

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
MI1 - MI2	90.000	5.300	8.325	1.552	1.149	2.028	1.719	2.081	32.956
MI2 - MI3	90.000	5.300	8.325	1.552	1.149	2.028	1.719	2.081	32.894
MI3 - MI4	90.000	5.300	8.325	1.552	1.149	2.028	1.719	2.081	32.879
MI4 - MI1	90.000	5.300	8.325	1.552	1.149	2.028	1.719	2.081	32.830

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Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
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PS Number PS931746C

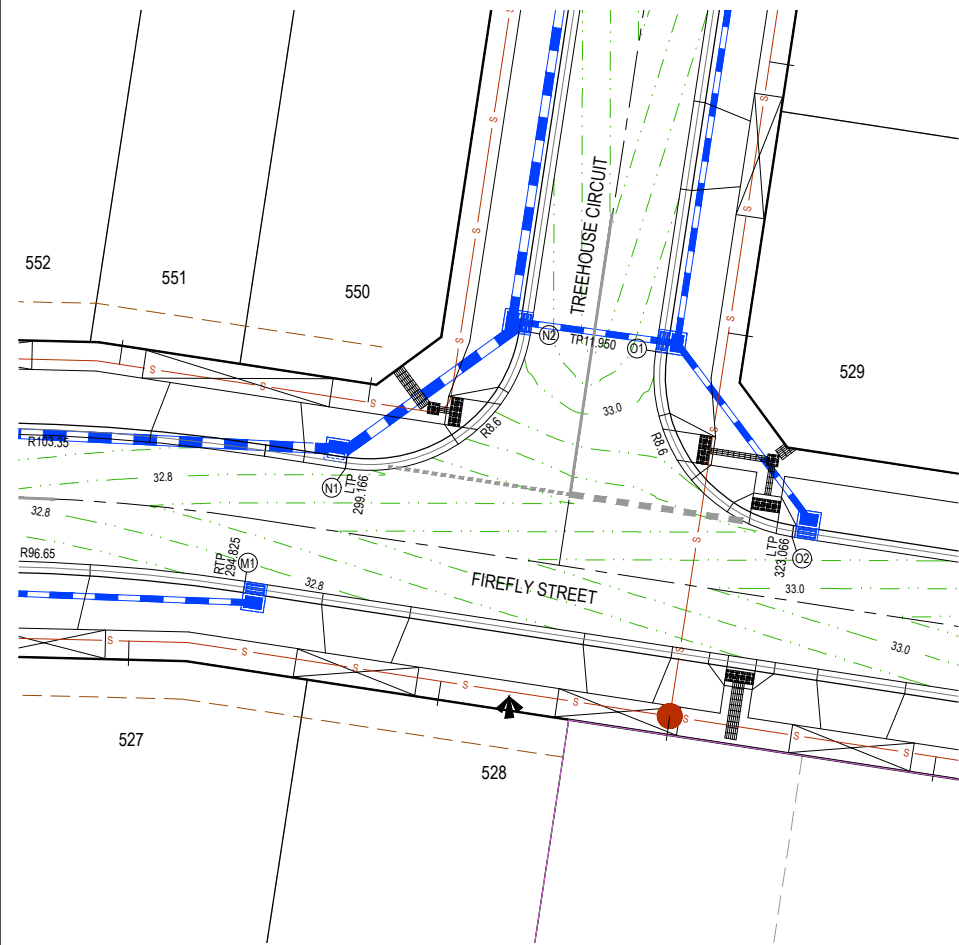
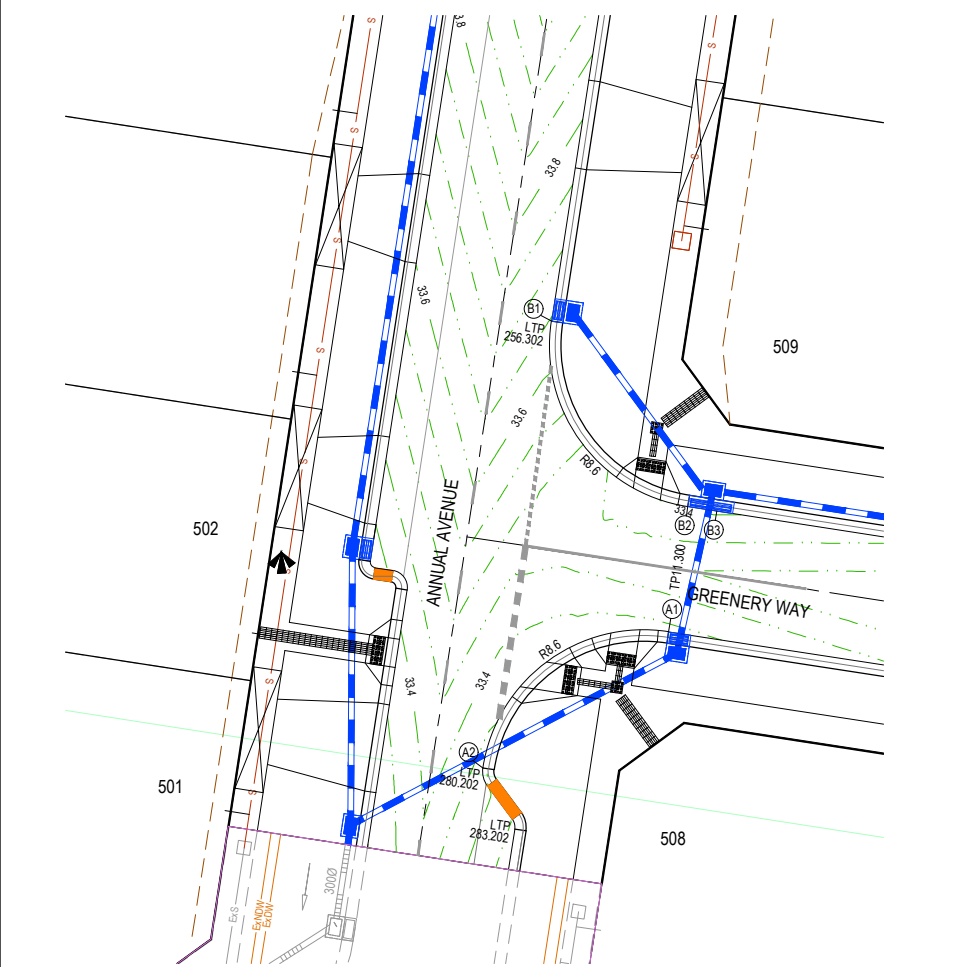
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1 Glenferrie Road
Malvern VIC 3144
ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
INTERSECTION DETAILS
(SHEET 5 OF 13)

Sheet 44 of 76

Scale
1:200 H 1:20 V @ A1

Project Ref 1701814
Stage No 05
Drawing No 304
Rev P3



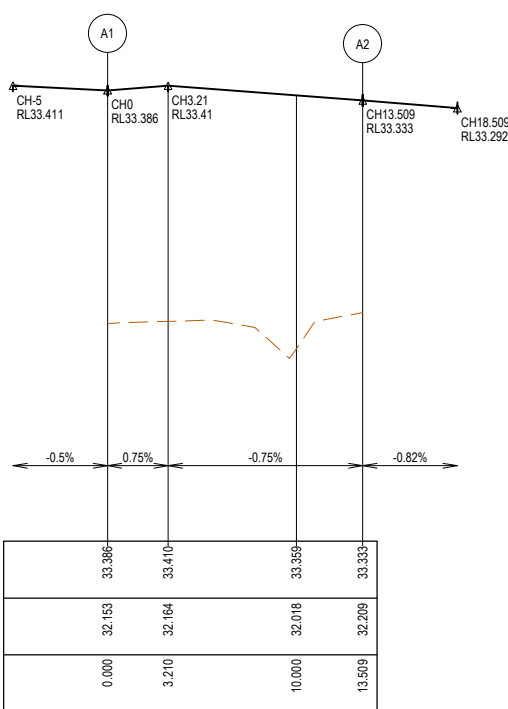
VERTICAL GEOMETRY

DATUM RL 31

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE A

Point no	Easting	Northing	RL
A1	9956.458	4699.764	33.386
A2	9946.650	4692.572	33.333

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
A1 - A2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	33.383

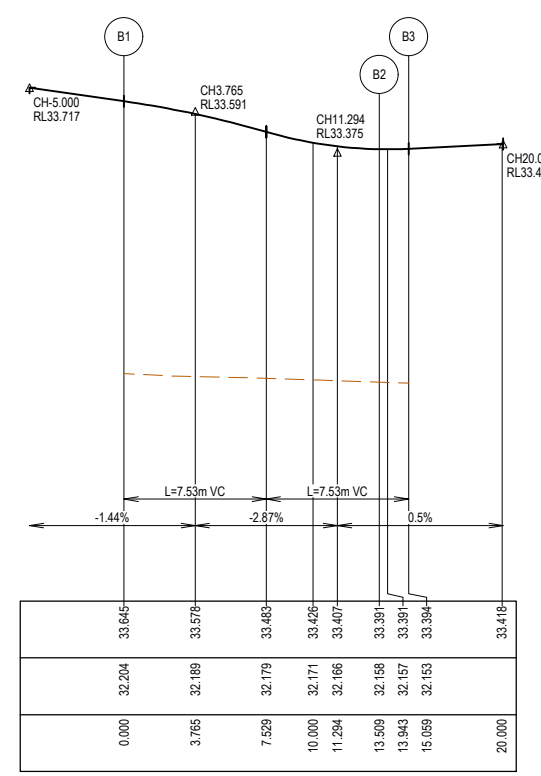
VERTICAL GEOMETRY

DATUM RL 31

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE B

Point no	Easting	Northing	RL
B1	9950.285	4716.194	33.645
B2	9957.477	4706.386	33.391
B3	9959.009	4706.150	33.394

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
B1 - B2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	33.505

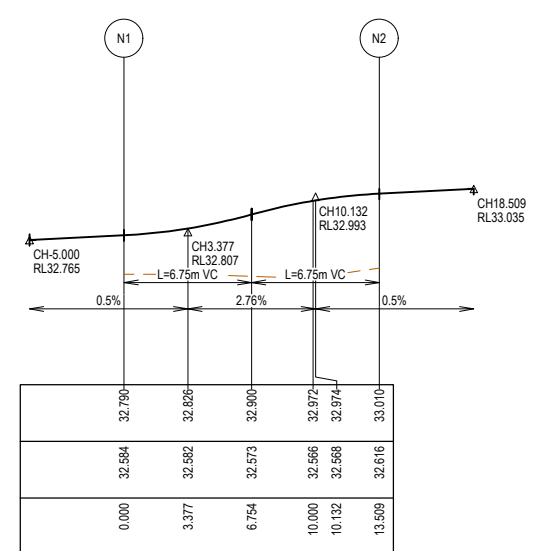
VERTICAL GEOMETRY

DATUM RL 32

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE N

Point no	Easting	Northing	RL
N1	10252.040	4748.987	32.790
N2	10261.640	4756.189	33.010

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
N1 - N2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	32.900

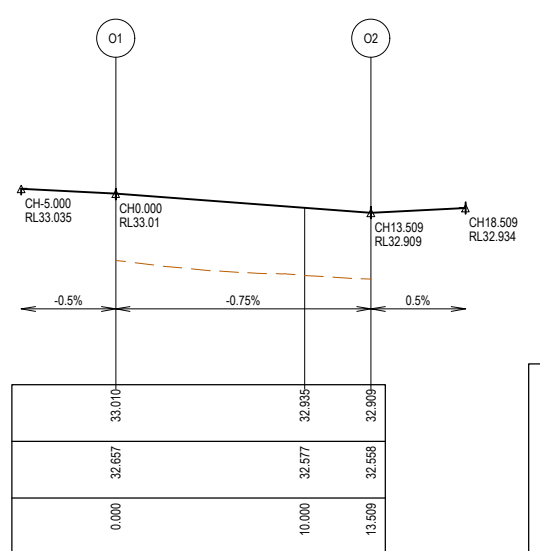
VERTICAL GEOMETRY

DATUM RL 32

DESIGN LEVEL

EXISTING SURFACE

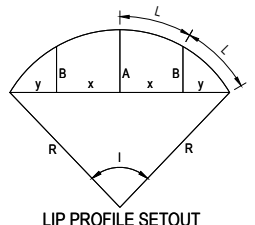
CHAINAGE



LIP LINE O

Point no	Easting	Northing	RL
O1	10268.463	4755.177	33.010
O2	10275.665	4745.376	32.909

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
O1 - O2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	32.960

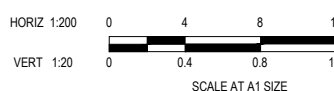


LEGEND

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

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P3	SERVICE OFFSETS UPDATED ON GALAH WALK AND CUBBY WALK	07.10.25	HW	CD					
P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.



Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

BW Beveridge Williams
Development & Infrastructure Consultants
1 Glenferrie Road
Malvern VIC 3144
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www.beveridgewilliams.com.au

Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL

Drawing Title
INTERSECTION DETAILS
(SHEET 6 OF 13)

Sheet 45 of 76

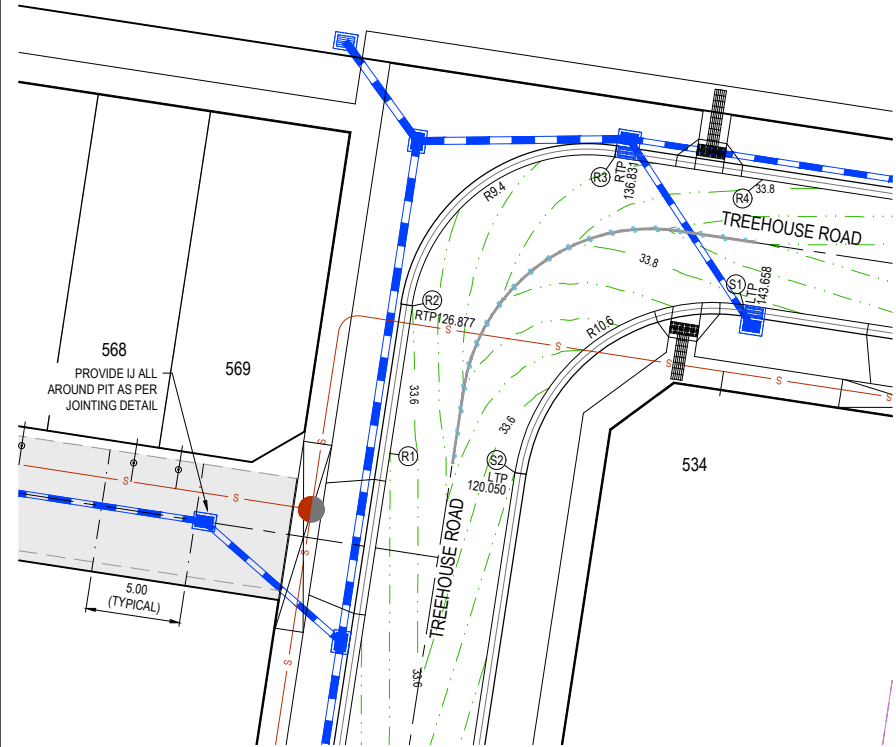
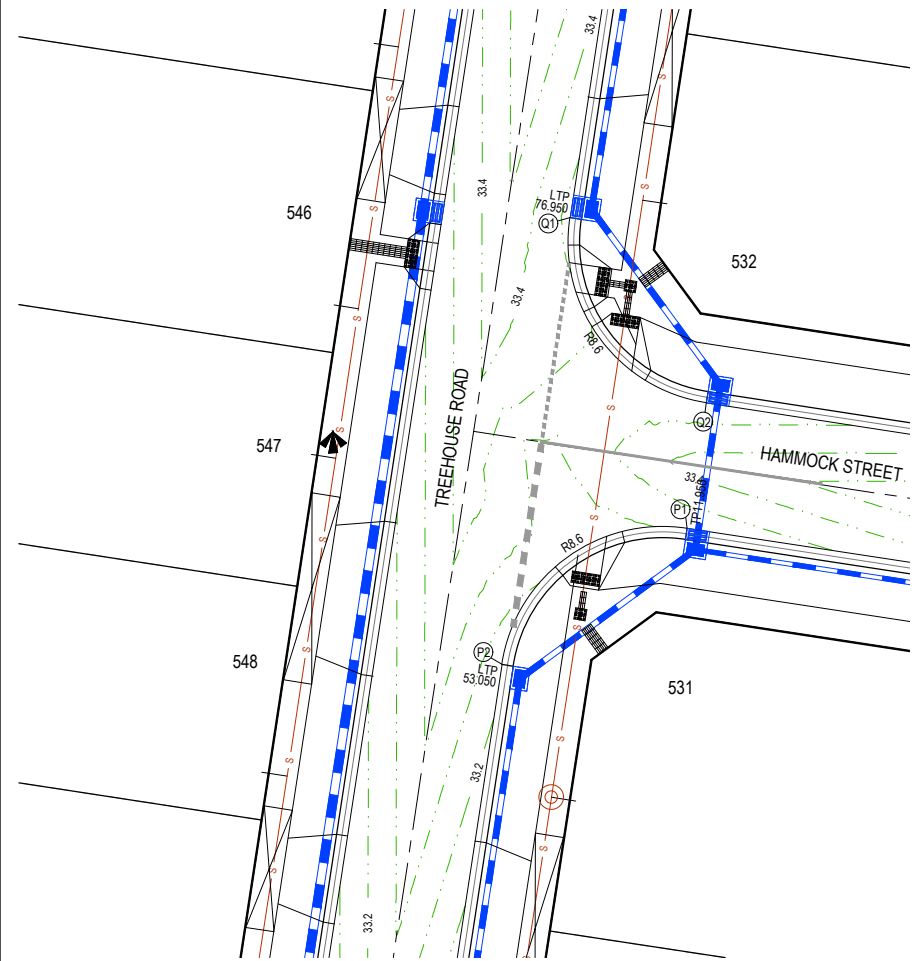
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1:200 H 1:20 V @ A1

Project Ref
1701814

Stage No
05

Drawing No
305

Rev
P3



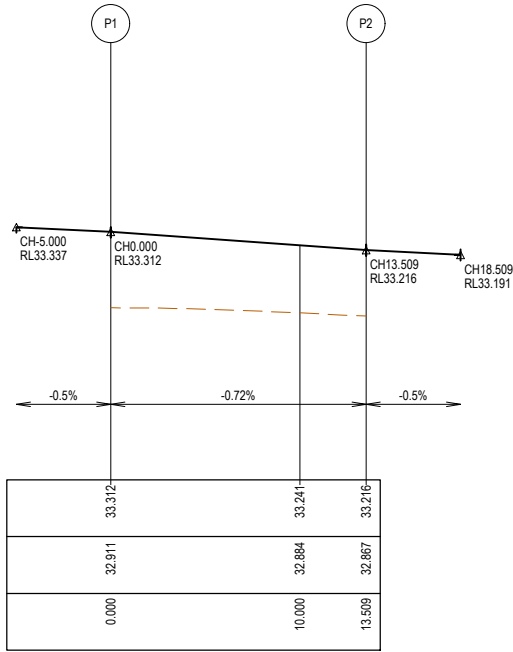
VERTICAL GEOMETRY

DATUM RL 32

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE P										
LIP LINE P										
Point no	Easting	Northing	RL							
P1	10284.473	4803.007	33.312							
P2	10274.672	4795.805	33.216							
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL	
P1 - P2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	33.264	

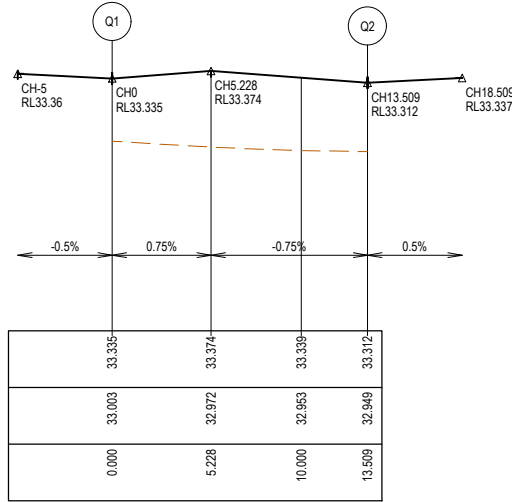
VERTICAL GEOMETRY

DATUM RL 32

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE Q										
LIP LINE Q										
Point no	Easting	Northing	RL							
Q1	10278.283	4819.431	33.335							
Q2	10285.485	4809.630	33.312							
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL	
Q1 - Q2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	33.363	

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

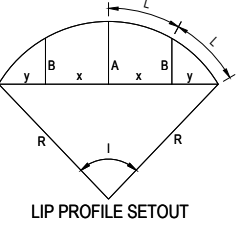
LIMIT OF WORKS

EXISTING TREE TO BE REMOVED

PERMANENT SURVEY MARK

TEMPORARY BENCH MARK

PROPOSED DRIVEWAY



LIP PROFILE SETOUT

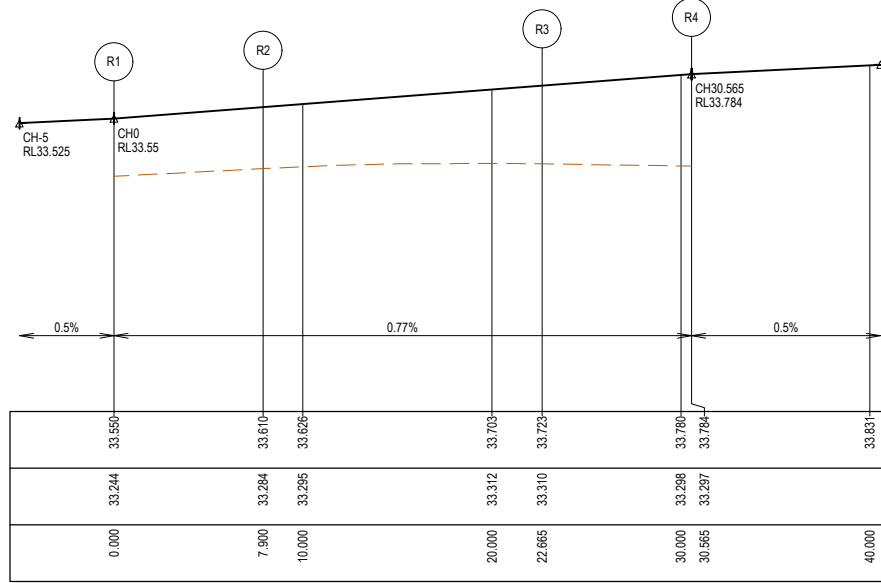
VERTICAL GEOMETRY

DATUM RL 32

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE R										
LIP LINE R										
Point no	Easting	Northing	RL							
R1	10278.171	4863.048	33.550							
R2	10279.364	4870.858	33.610							
R3	10290.076	4878.730	33.723							
R4	10297.886	4877.536	33.784							
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL	
R2 - R3	90.000	9.400	14.765	2.753	2.038	3.597	3.050	3.691	33.667	

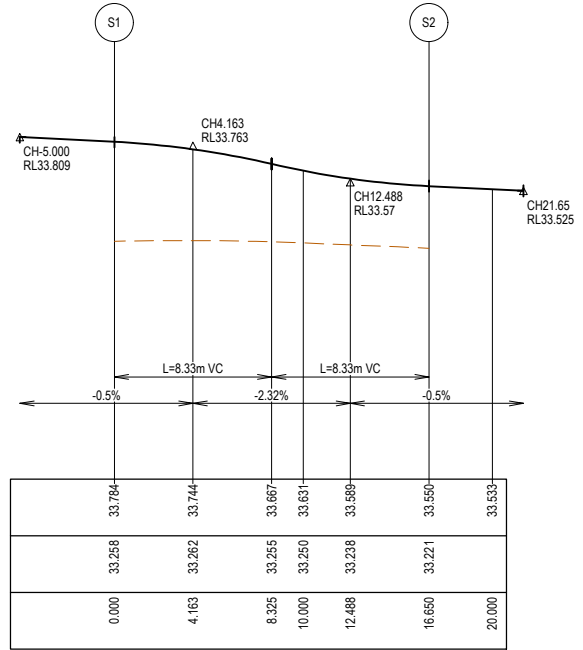
VERTICAL GEOMETRY

DATUM RL 32

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE

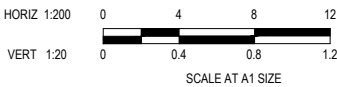


LIP LINE S										
LIP LINE S										
Point no	Easting	Northing	RL							
S1	10296.874	4870.913	33.784							
S2	10284.794	4862.036	33.550							
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL	
S1 - S2	90.000	10.600	16.650	3.105	2.298	4.056	3.439	4.163	33.667	

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
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P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
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Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0012536
Date	28.08.25
PS Number	PS931746C

Beveridge Williams

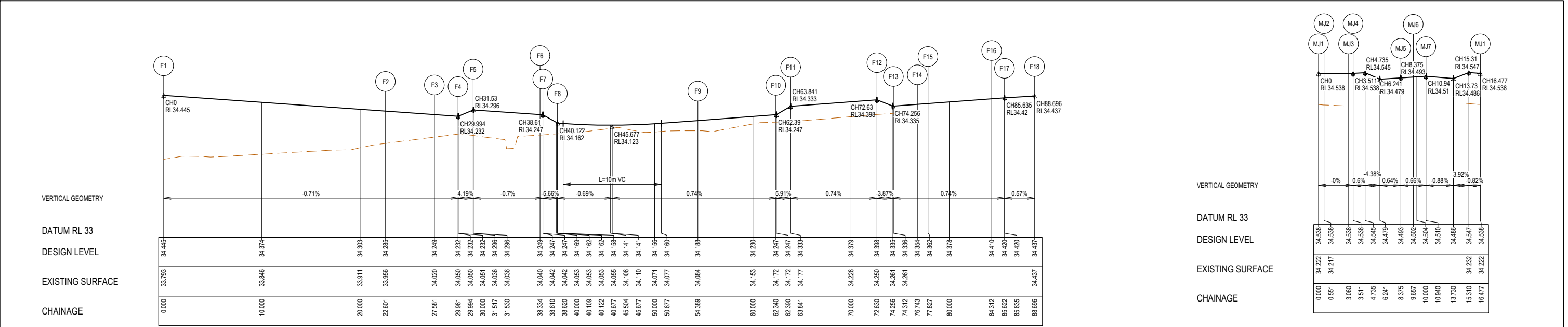
Development & Infrastructure Consultants

1 Glenferrie Road
Malvern VIC 3144

ph: 03 9524 8888
www.beveridgewilliams.com.au

Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	INTERSECTION DETAILS (SHEET 7 OF 13)

Sheet	46 of 76
Scale	1:200 H 1:20 V @ A1
Project Ref	1701814
Stage No	05
Drawing No	306
Rev	P3



LIP LINE F

Point no	Easting	Northing	RL
F1	10152.523	4957.470	34.445
F2	10174.777	4961.370	34.285
F3	10179.702	4962.106	34.249
F4	10182.090	4962.353	34.232
F5	10183.555	4962.816	34.296
F6	10190.157	4964.453	34.249
F7	10190.424	4964.555	34.247
F8	10191.873	4964.899	34.162
F9	10198.606	4976.658	34.188
F10	10198.516	4984.609	34.247
F11	10198.246	4986.084	34.333
F12	10198.724	4994.859	34.398
F13	10199.170	4996.482	34.336
F14	10199.420	4998.899	34.354
F15	10199.598	4999.968	34.362
F16	10201.009	5006.298	34.410
F17	10201.252	5007.584	34.420
F18	10201.723	5010.622	34.437

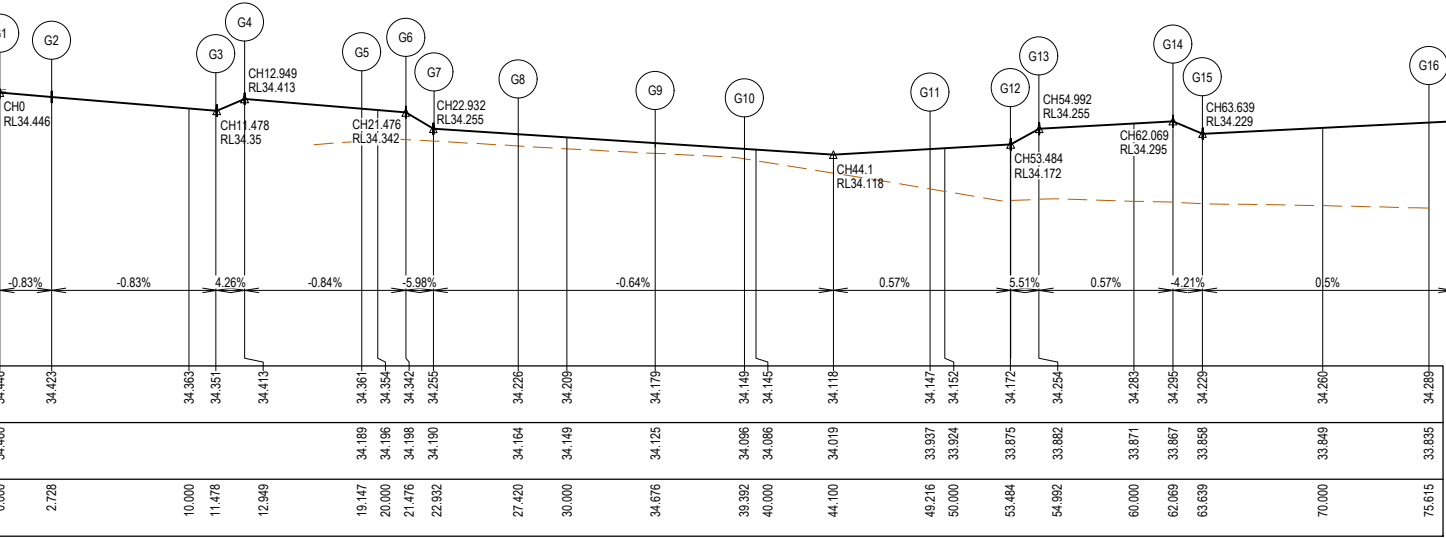
LIP LINE F

LIP LINE G

Point no	Easting	Northing	RL
G1	10209.353	5010.054	34.446
G2	10209.264	5007.327	34.423
G3	10209.739	4998.648	34.351
G4	10210.268	4997.225	34.413
G5	10211.704	4991.200	34.361
G6	10212.458	4988.997	34.342
G7	10212.731	4987.522	34.254
G8	10214.738	4983.561	34.226
G9	10220.004	4978.721	34.179
G10	10223.877	4976.064	34.149
G11	10231.863	4970.395	34.147
G12	10235.686	4968.521	34.172
G13	10237.153	4968.194	34.254
G14	10243.771	4965.652	34.295
G15	10245.135	4964.896	34.229
G16	10256.798	4962.182	34.289

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
G2 - G3	9.973	50.000	8.703	0.189	0.142	2.175	2.171	2.176	34.387
G4 - G5	7.145	49.700	6.198	0.097	0.072	1.549	1.548	1.549	34.387
G5 - G6	3.845	34.700	2.329	0.020	0.015	0.582	0.582	0.582	34.352
G7 - G8	7.274	35.000	4.444	0.070	0.053	1.111	1.110	1.111	34.240
G8 - G9	33.804	12.300	7.257	0.531	0.398	1.808	1.768	1.814	34.202
G9 - G10	17.543	15.400	4.715	0.180	0.135	1.178	1.171	1.179	34.164
G10 - G11	15.723	35.800	9.824	0.336	0.252	2.454	2.443	2.456	34.119
G11 - G12	3.038	80.293	4.258	0.028	0.021	1.064	1.064	1.064	34.160
G13 - G14	5.079	79.993	7.091	0.079	0.059	1.773	1.772	1.773	34.275
G15 - G16	8.553	80.293	11.986	0.224	0.168	2.996	2.992	2.996	34.259

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
F1 - F2	5.189	249.550	22.601	0.256	0.192	5.650	5.647	5.650	34.365
F5 - F6	12.806	30.500	6.817	0.190	0.143	1.703	1.698	1.704	34.273
F8 - F9	63.919	12.800	14.280	1.940	1.446	3.524	3.251	3.570	34.143
F9 - F10	3.043	149.700	7.951	0.053	0.040	1.988	1.987	1.988	34.217
F11 - F12	3.357	150.000	8.789	0.064	0.048	2.197	2.197	2.197	34.366
F13 - F14	0.930	149.700	2.430	0.005	0.004	0.608	0.608	0.608	34.345
F14 - F15	6.210	10.000	1.084	0.015	0.011	0.271	0.271	0.271	34.358
F16 - F17	3.751	20.000	1.309	0.011	0.008	0.327	0.327	0.327	34.415



LIP LINE G

VERTICAL GEOMETRY

DATUM RL 33

DESIGN LEVEL

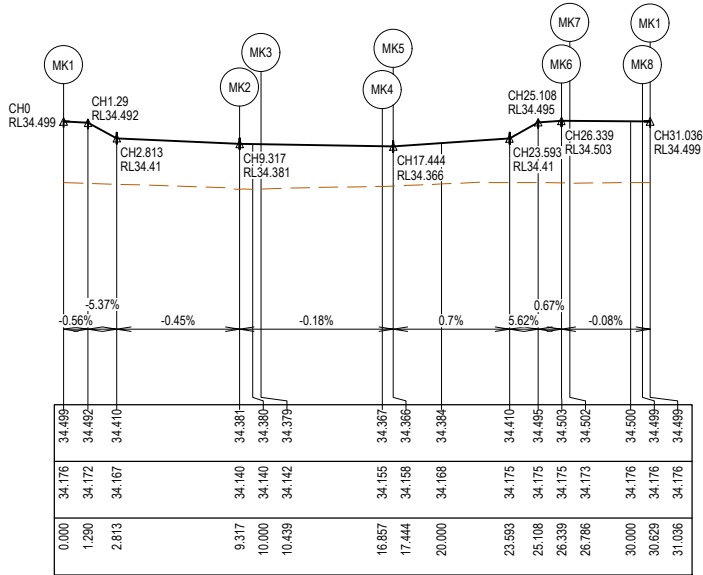
EXISTING SURFACE

CHAINAGE

LIP LINE MJ

Point no	Easting	Northing	RL
MJ1	10203.173	4994.626	34.538
MJ2	10203.533	4994.313	34.538
MJ3	10205.991	4994.817	34.538
MJ4	10206.228	4995.151	34.538
MJ5	10205.713	4999.987	34.493
MJ6	10204.876	5000.814	34.502
MJ7	10203.936	5000.106	34.510

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
MJ1 - MJ2	105.253	0.300	0.551	0.118	0.087	0.133	0.105	0.138	34.538
MJ3 - MJ4	86.069	0.300	0.451	0.081	0.060	0.110	0.095	0.113	34.538
MJ4 - MJ5	3.143	88.668	4.864	0.033	0.025	1.216	1.216	1.216	34.492
MJ5 - MJ6	81.657	0.900	1.283	0.219	0.162	0.314	0.274	0.321	34.497
MJ6 - MJ7	81.657	0.900	1.283	0.219	0.162	0.314	0.274	0.321	34.506
MJ7 - MJ1	6.508	37.292	5.537	0.103	0.077	1.384	1.382	1.384	34.486

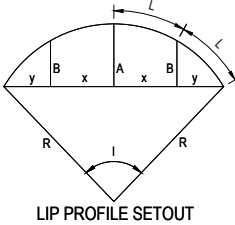


LIP LINE MK

Point no	Easting	Northing	RL
MK1	10203.056	4988.360	34.499
MK2	10203.809	4979.088	34.381
MK3	10204.674	4978.658	34.379
MK4	10210.751	4980.634	34.367
MK5	10210.963	4981.085	34.366
MK6	10207.409	4989.213	34.503
MK7	10207.061	4989.422	34.502
MK8	10203.296	4988.651	34.499

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
MK1 - MK2	10.676	50.000	9.317	0.217	0.163	2.328	2.323	2.329	34.402
MK2 - MK3	107.226	0.600	1.123	0.244	0.180	0.271	0.212	0.281	34.380
MK3 - MK4	18.386	20.000	6.418	0.257	0.193	1.603	1.592	1.604	34.373
MK4 - MK5	112.074	0.300	0.587	0.132	0.097	0.141	0.108	0.147	34.367
MK5 - MK6	14.561	35.000	8.895	0.282	0.212	2.222	2.213	2.224	34.398
MK6 - MK7	85.252	0.300	0.446	0.079	0.059	0.109	0.094	0.112	34.503
MK8 - MK1	77.720	0.300	0.407	0.066	0.049	0.100	0.088	0.102	34.499

LIP LINE MK



LIP PROFILE SETOUT

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Designed	N.SMOLENAARS
Date	28.08.25
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PS Number	PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL

Drawing Title
INTERSECTION DETAILS
(SHEET 9 OF 13)

Sheet 48 of 76

Scale
1:200 H 1:20 V @ A1

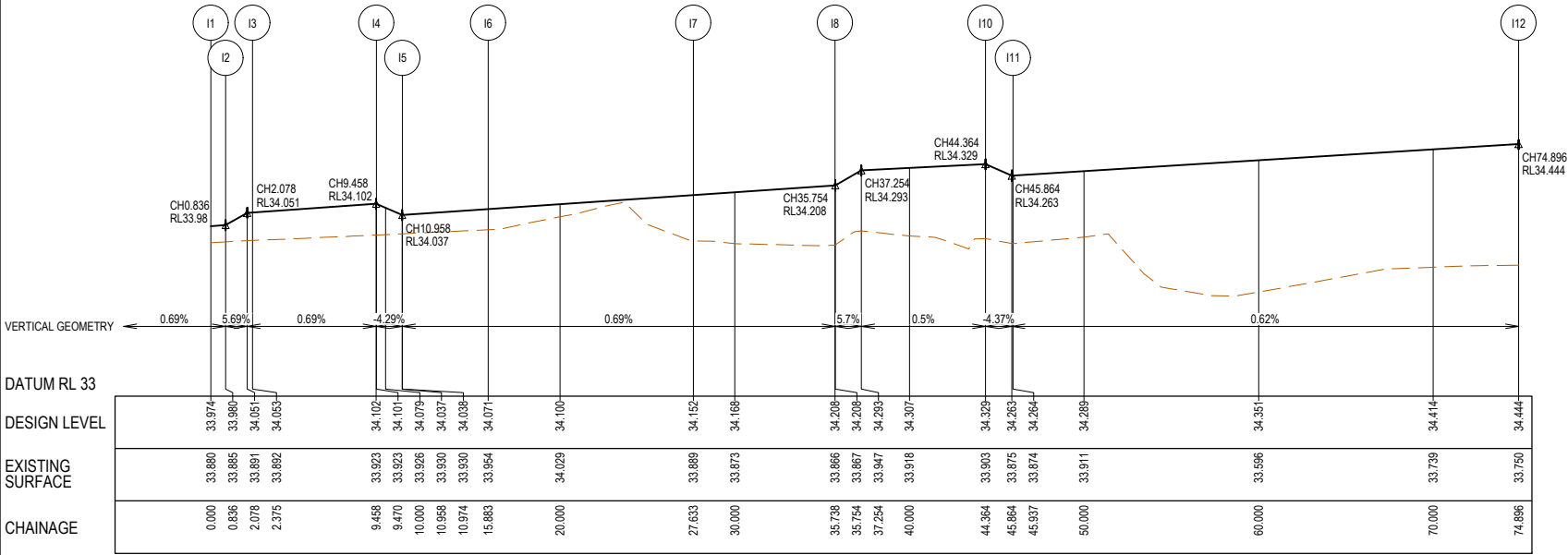
Project Ref
1701814

Stage No
05

Drawing No
308

Rev
P3





LIP LINE I

LIP LINE I

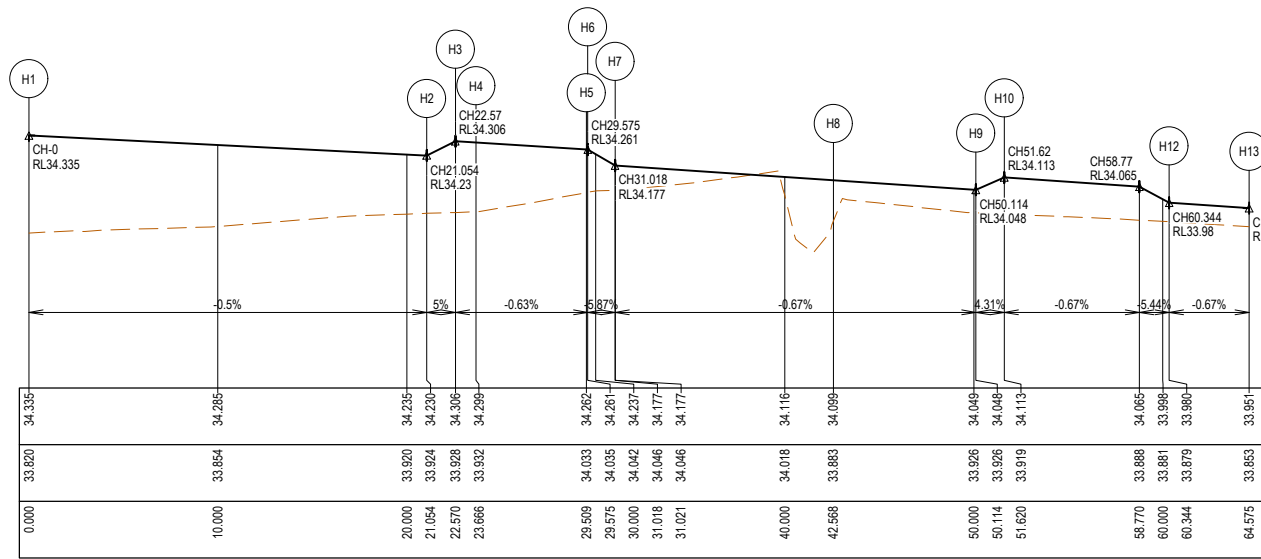
Point no	Easting	Northing	RL
I1	10214.087	4930.728	33.974
I2	10214.052	4931.563	33.980
I3	10213.639	4933.046	34.053
I4	10212.246	4939.990	34.101
I5	10212.067	4941.484	34.038
I6	10210.108	4945.980	34.071
I7	10200.954	4952.676	34.152
I8	10192.929	4953.797	34.208
I9	10191.420	4953.845	34.293
I10	10184.325	4954.094	34.329
I11	10182.789	4954.435	34.264
I12	10154.045	4951.559	34.444

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
I1 - I2	1.357	35.300	0.836	0.002	0.002	0.209	0.209	0.209	33.977
I3 - I4	11.614	35.000	7.095	0.180	0.135	1.773	1.768	1.774	34.077
I5 - I6	7.967	35.300	4.909	0.085	0.064	1.227	1.225	1.227	34.054
I6 - I7	52.598	12.800	11.750	1.325	0.989	2.912	2.759	2.938	34.112
I7 - I8	3.860	120.300	8.104	0.068	0.051	2.026	2.025	2.026	34.180
I9 - I10	3.395	120.000	7.110	0.053	0.039	1.777	1.777	1.777	34.311
I11 - I12	13.792	120.300	28.958	0.870	0.653	7.235	7.209	7.240	34.354

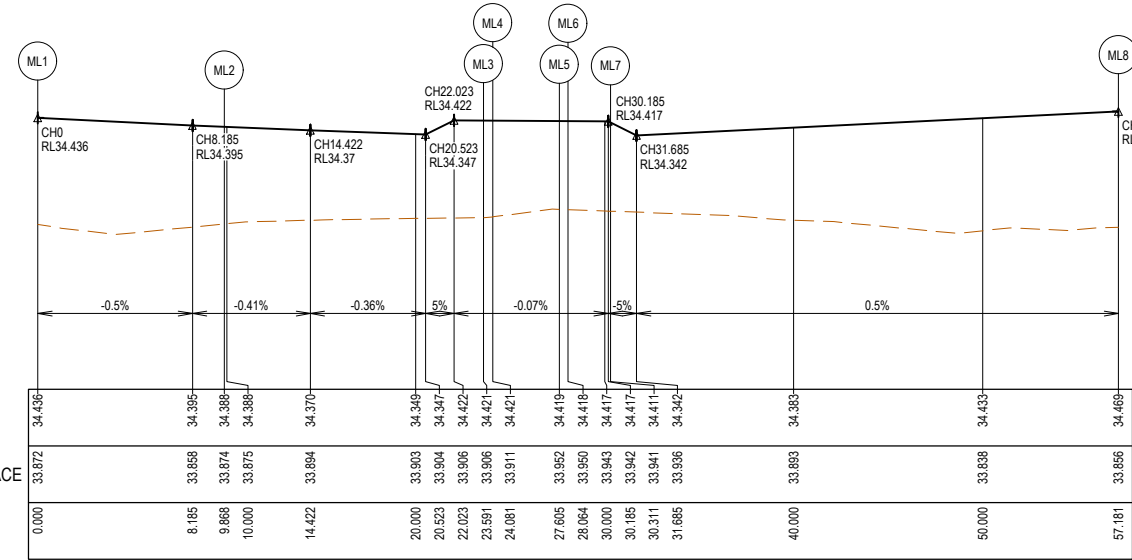
LIP LINE H

Point no	Easting	Northing	RL
H1	10263.001	4948.783	34.335
H2	10242.449	4953.292	34.230
H3	10240.939	4953.418	34.306
H4	10239.888	4953.732	34.299
H5	10234.171	4954.888	34.262
H6	10234.104	4954.895	34.261
H7	10232.699	4955.233	34.177
H8	10223.578	4949.023	34.099
H9	10221.218	4941.697	34.048
H10	10221.154	4940.392	34.113
H11	10220.041	4933.335	34.065
H12	10219.635	4931.815	33.980
H13	10219.584	4927.585	33.951

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
H1 - H2	7.108	169.712	21.054	0.326	0.245	5.263	5.258	5.264	34.283
H3 - H4	0.370	170.012	1.096	0.001	0.001	0.274	0.274	0.274	34.302
H4 - H5	10.975	30.500	5.842	0.140	0.105	1.460	1.457	1.461	34.280
H5 - H6	0.383	10.000	0.067	0.000	0.000	0.017	0.017	0.017	34.262
H7 - H8	64.231	10.300	11.547	1.576	1.174	2.849	2.627	2.887	34.138
H8 - H9	8.596	50.300	7.546	0.141	0.106	1.886	1.883	1.887	34.074
H10 - H11	8.194	50.000	7.151	0.128	0.096	1.787	1.785	1.788	34.089
H12 - H13	4.820	50.300	4.231	0.044	0.033	1.058	1.057	1.058	33.965



LIP LINE H



LIP LINE ML

LIP LINE ML

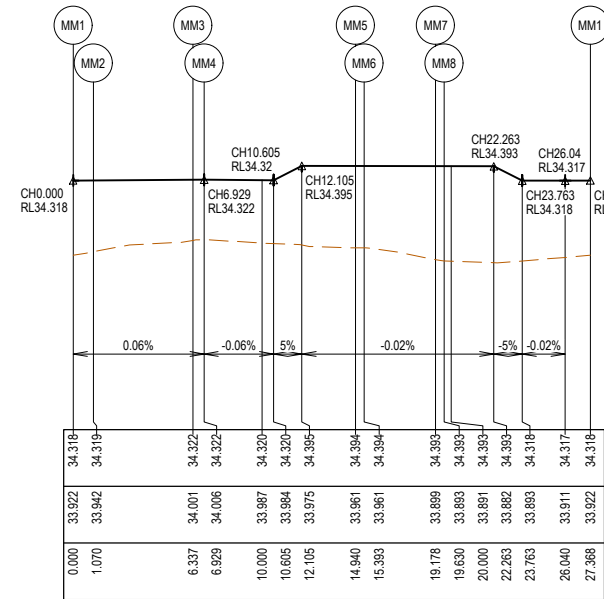
Point no	Easting	Northing	RL
ML1	10264.397	4957.773	34.136
ML2	10254.644	4959.278	34.388
ML3	10241.270	4962.304	34.421
ML4	10240.892	4962.084	34.421
ML5	10240.097	4958.651	34.419
ML6	10240.310	4958.294	34.418
ML7	10242.455	4957.628	34.411
ML8	10268.498	4951.157	34.469

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
ML2 - ML3	7.847	100.200	13.722	0.235	0.176	3.430	3.426	3.431	34.361
ML3 - ML4	93.641	0.300	0.490	0.095	0.070	0.119	0.100	0.123	34.421
ML5 - ML6	87.624	0.300	0.459	0.084	0.062	0.112	0.096	0.115	34.418
ML6 - ML7	3.678	35.000	2.247	0.018	0.014	0.562	0.562	0.562	34.418
ML7 - ML8	10.264	150.000	26.870	0.601	0.451	6.715	6.702	6.718	34.402

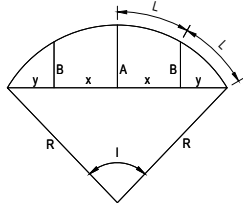
LIP LINE MM

Point no	Easting	Northing	RL
MM1	10230.400	4965.551	34.318
MM2	10229.630	4965.022	34.319
MM3	10228.541	4959.885	34.322
MM4	10228.843	4959.485	34.322
MM5	10236.825	4959.066	34.394
MM6	10237.167	4959.294	34.394
MM7	10238.020	4962.982	34.393
MM8	10237.814	4963.337	34.393

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
MM1 - MM2	102.203	0.600	1.070	0.223	0.165	0.259	0.208	0.268	34.318
MM2 - MM3	15.088	20.000	5.267	0.173	0.130	1.316	1.310	1.317	34.320
MM3 - MM4	113.062	0.300	0.592	0.135	0.099	0.142	0.108	0.148	34.322
MM4 - MM5	13.113	35.000	8.010	0.229	0.172	2.002	1.995	2.003	34.336
MM5 - MM6	86.530	0.300	0.453	0.082	0.060	0.111	0.095	0.113	34.394
MM7 - MM8	86.407	0.300	0.452	0.081	0.060	0.110	0.095	0.113	34.393



LIP LINE MM



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P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					



Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0012536
Date	28.08.25
PS Number	PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL

Drawing Title
INTERSECTION DETAILS
(SHEET 10 OF 13)

Sheet 49 of 76

Scale
1:200 H 1:20 V @ A1

Project Ref
1701814

Stage No
05

Drawing No
309

Rev
P3



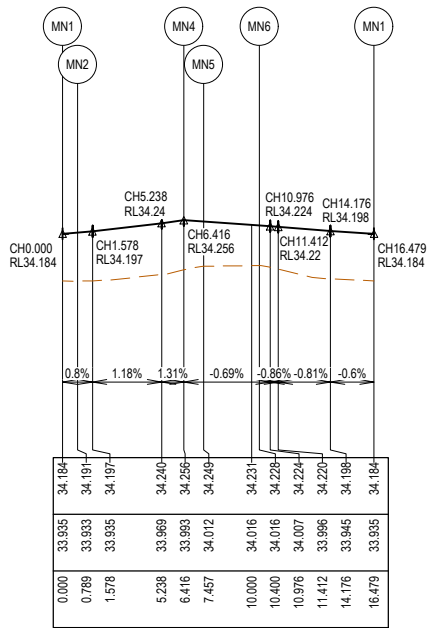
VERTICAL GEOMETRY

DATUM RL 33

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE MN

LIP LINE MN

Point no	Easting	Northing	RL
MN1	10215.985	4943.354	34.184
MN2	10216.619	4942.985	34.191
MN3	10217.136	4943.505	34.197
MN4	10217.741	4948.305	34.256
MN5	10217.123	4948.979	34.249
MN6	10214.182	4948.866	34.228
MN7	10213.915	4948.453	34.224

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
MN1 - MN2	75.364	0.600	0.789	0.125	0.093	0.194	0.173	0.197	34.187
MN2 - MN3	75.364	0.600	0.789	0.125	0.093	0.194	0.173	0.197	34.194
MN4 - MN5	99.392	0.600	1.041	0.212	0.156	0.252	0.205	0.260	34.252
MN6 - MN7	109.881	0.300	0.575	0.128	0.094	0.138	0.107	0.144	34.226

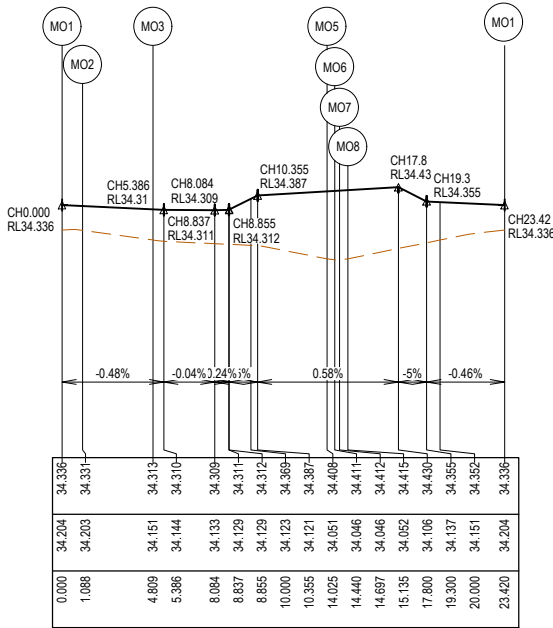
VERTICAL GEOMETRY

DATUM RL 33

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE MO

LIP LINE MO

Point no	Easting	Northing	RL
MO1	10197.513	4957.947	34.336
MO2	10198.149	4958.646	34.331
MO3	10197.529	4962.314	34.313
MO4	10197.084	4962.524	34.310
MO5	10189.140	4959.187	34.408
MO6	10188.923	4958.672	34.411
MO7	10188.945	4958.616	34.412
MO8	10189.238	4958.343	34.415

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
MO1 - MO2	103.908	0.600	1.088	0.230	0.170	0.263	0.210	0.272	34.334
MO3 - MO4	110.270	0.300	0.577	0.129	0.094	0.139	0.107	0.144	34.312
MO4 - MO5	14.142	35.000	8.639	0.266	0.200	2.158	2.150	2.160	34.354
MO5 - MO6	79.333	0.300	0.415	0.069	0.051	0.102	0.090	0.104	34.409
MO7 - MO8	83.795	0.300	0.439	0.077	0.057	0.107	0.093	0.110	34.413
MO8 - MO1	3.165	150.000	8.285	0.057	0.043	2.071	2.071	2.071	34.356

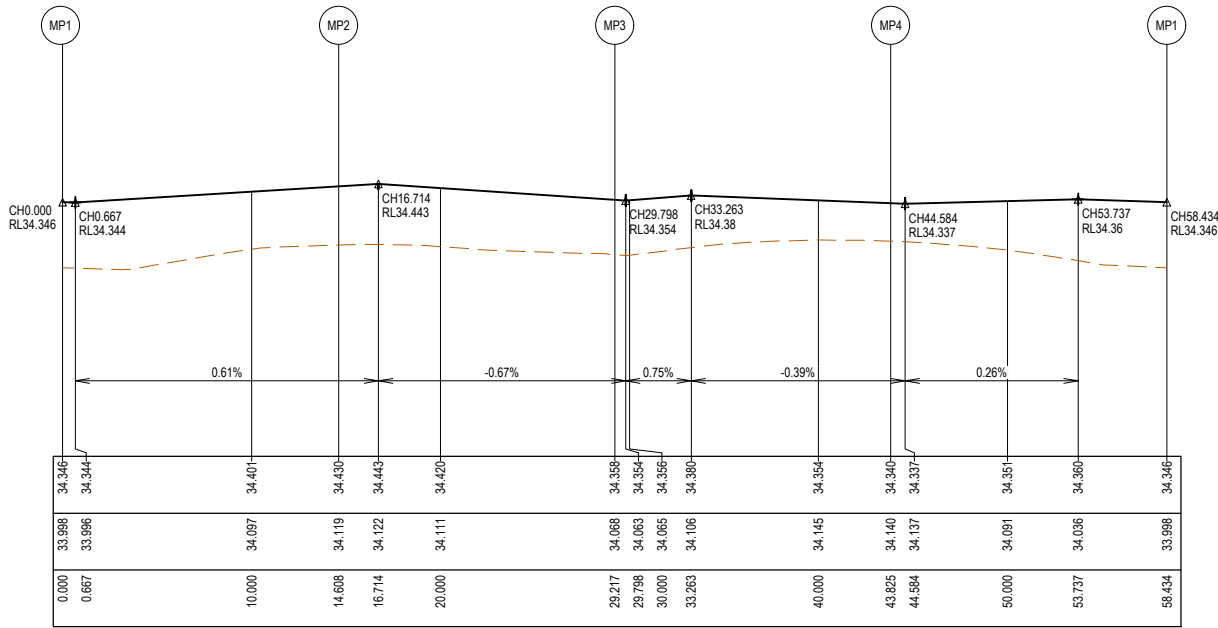
VERTICAL GEOMETRY

DATUM RL 33

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE

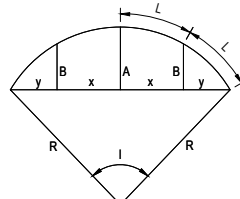


LIP LINE MP

LIP LINE MP

Point no	Easting	Northing	RL
MP1	10222.629	4964.843	34.346
MP2	10213.329	4974.143	34.430
MP3	10204.029	4964.843	34.358
MP4	10213.329	4955.543	34.340

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
MP1 - MP2	90.000	9.300	14.608	2.724	2.016	3.559	3.017	3.652	34.385
MP2 - MP3	90.000	9.300	14.608	2.724	2.016	3.559	3.017	3.652	34.407
MP3 - MP4	90.000	9.300	14.608	2.724	2.016	3.559	3.017	3.652	34.368
MP4 - MP1	90.000	9.300	14.608	2.724	2.016	3.559	3.017	3.652	34.354

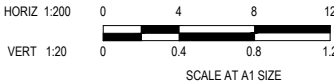


LIP PROFILE SETOUT

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
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Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0012536
Date	28.08.25
PS Number	PS931746C

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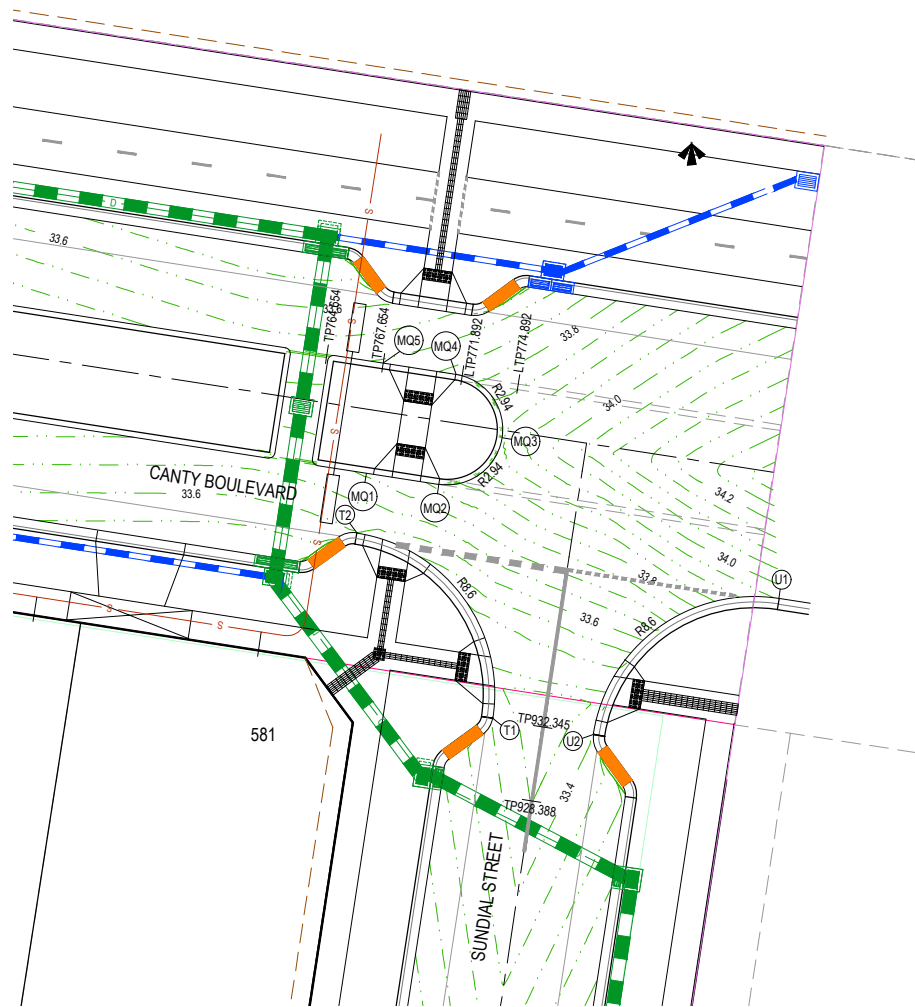
Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	INTERSECTION DETAILS (SHEET 11 OF 13)

Sheet 50 of 76

Scale 1:200 H 1:20 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	310	P3





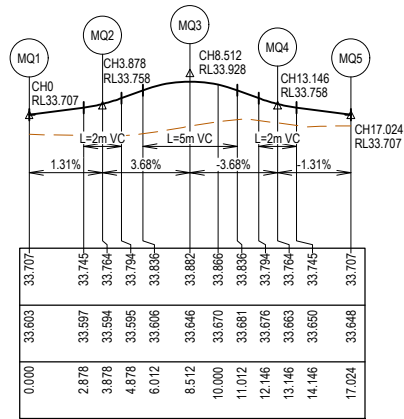
VERTICAL GEOMETRY

DATUM RL 33

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE MQ

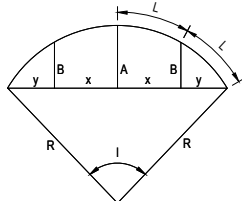
LIP LINE MQ

Point no	Easting	Northing	RL
MQ1	10499.449	4915.323	33.707
MQ2	10503.281	4914.728	33.764
MQ3	10506.649	4917.191	33.882
MQ4	10504.186	4920.558	33.764
MQ5	10500.354	4921.153	33.707

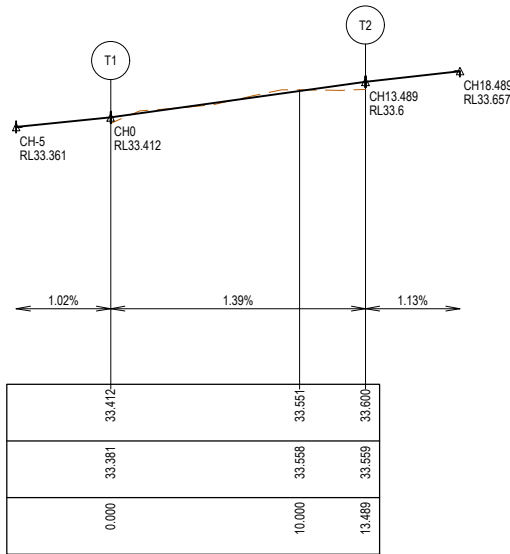
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
MQ2 - MQ3	90.000	2.950	4.634	0.864	0.639	1.129	0.957	1.158	33.843
MQ3 - MQ4	90.000	2.950	4.634	0.864	0.639	1.129	0.957	1.158	33.843

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



LIP PROFILE SETOUT



LIP LINE T

LIP LINE T

Point no	Easting	Northing	RL
T1	10506.120	4902.367	33.412
T2	10498.937	4912.164	33.600

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
T1 - T2	89.867	8.600	13.489	2.512	1.859	3.286	2.788	3.372	33.506

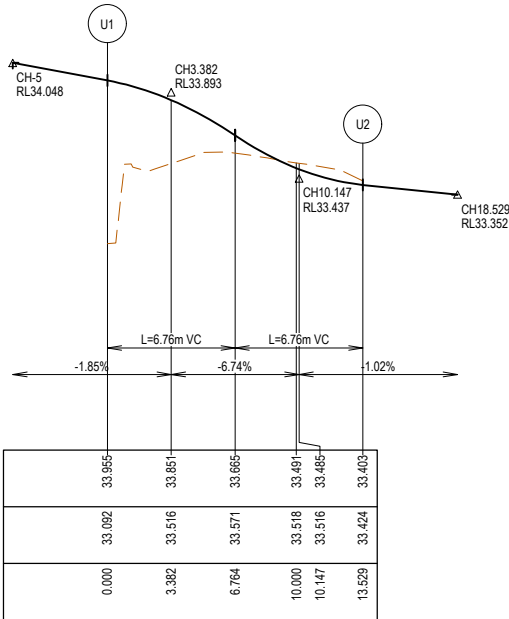
VERTICAL GEOMETRY

DATUM RL 32

DESIGN LEVEL

EXISTING SURFACE

CHAINAGE



LIP LINE U

LIP LINE U

Point no	Easting	Northing	RL
U1	10521.270	4908.698	33.955
U2	10511.450	4901.499	33.403

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
U1 - U2	90.133	8.600	13.529	2.526	1.869	3.296	2.792	3.382	33.665

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P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					

HORIZ 1:200

VERT 1:20

SCALE AT A1 SIZE

Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

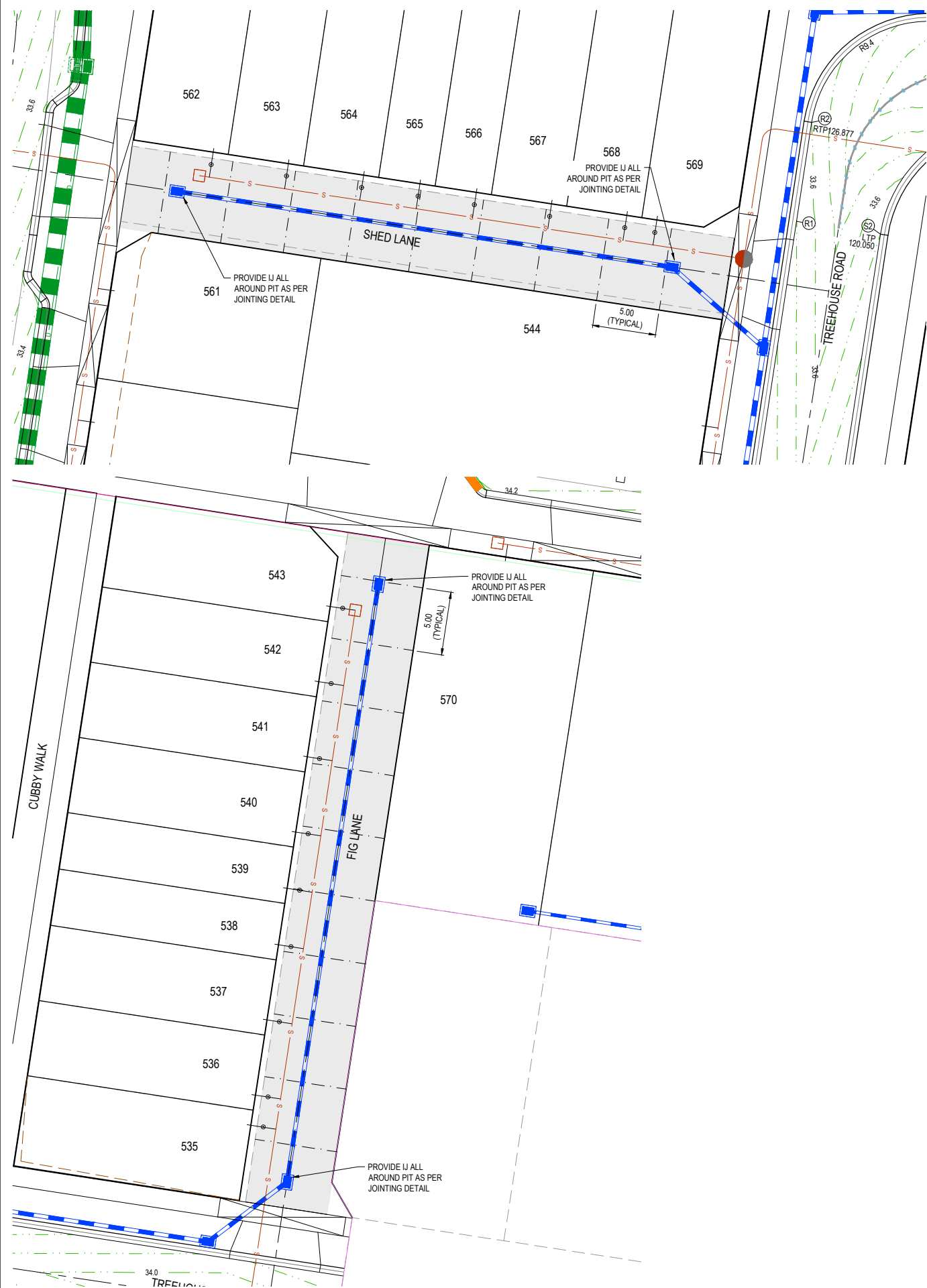
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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
INTERSECTION DETAILS
(SHEET 12 OF 13)

Sheet 51 of 76

Scale
1:200 H 1:20 V @ A1

Project Ref 1701814
Stage No 05
Drawing No 311
Rev P3



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

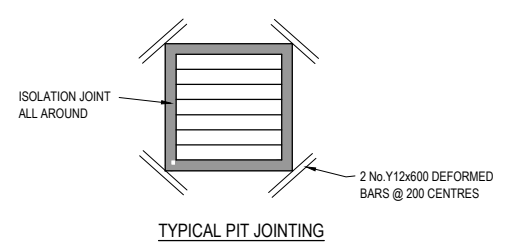
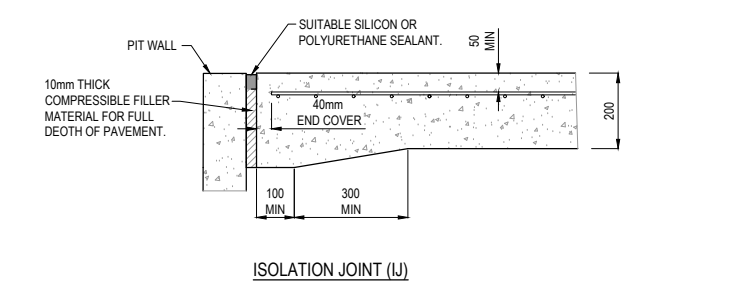
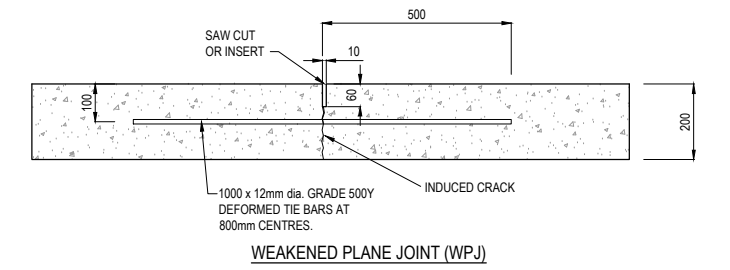
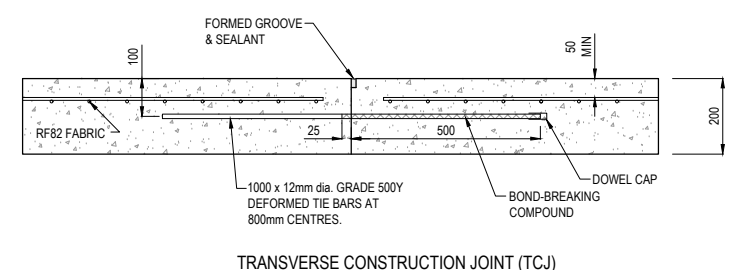
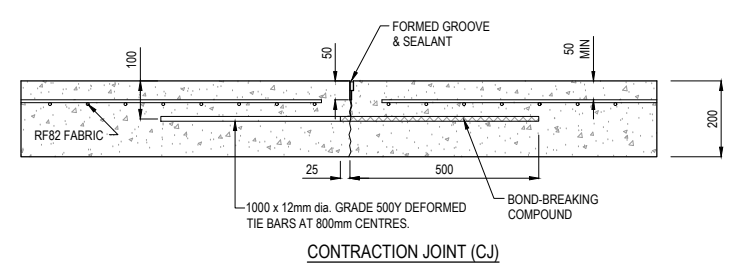
LIMIT OF WORKS

EXISTING TREE TO BE REMOVED

PERMANENT SURVEY MARK

TEMPORARY BENCH MARK

PROPOSED DRIVEWAY



- CONCRETE JOINTING NOTES
1.

SAW JOINTS ARE TO BE PLACED AT A MAXIMUM 5m SPACING AT INTERSECTIONS AND CONSTRUCTED 18-24 HOURS AFTER POURING.
2.

TRANSVERSE/CONTRACTION JOINTS ARE TO BE PLACED AT A MAXIMUM SPACING OF 15m.
3.

ISOLATION JOINTS ARE TO BE PLACED AROUND PITS
4.

ALL JOINTS SHALL BE LOCATED AND SPACED IN ACCORDANCE WITH "CEMENT AND CONCRETE ASSOCIATION OF AUSTRALIA T51- GUIDE TO RESIDENTIAL STREET AND PATHS 2004"

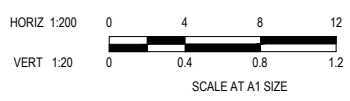
CONCRETE JOINTING DETAILS

NOT TO SCALE

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P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.



Designed
Date

N.SMOLENAARS
28.08.25

Drawn

L.SUTHERLAND

Checked
Date

C.DAWSON
28.08.25

Approved
Reg. No.
Date

C.DAWSON
PE0012536
28.08.25

PS Number

PS931746C

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Project
Details

MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL

Drawing
Title

INTERSECTION DETAILS
(SHEET 13 OF 13)

Project Ref

1701814

Stage No

05

Drawing No

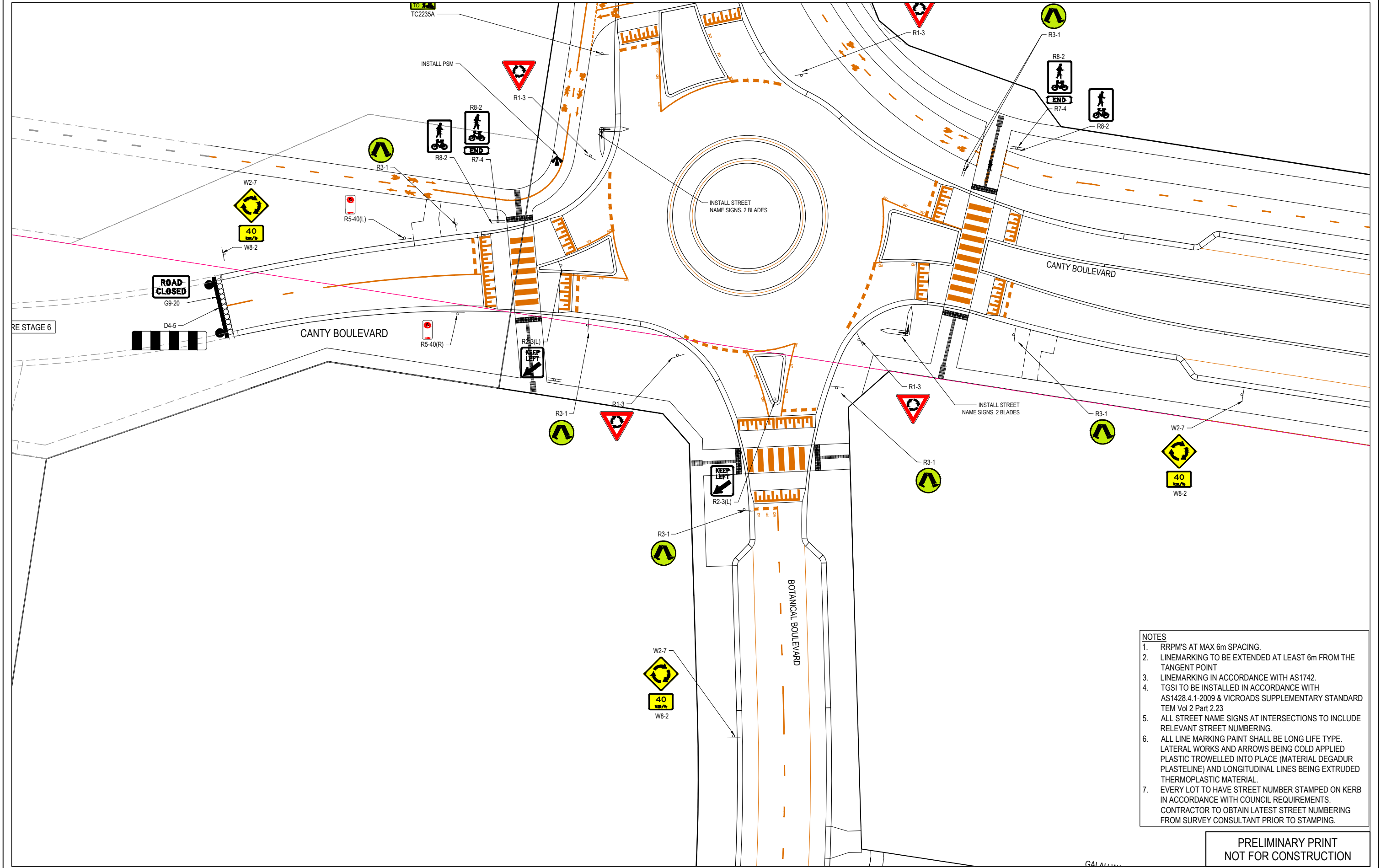
312

Rev

P3

Sheet 52 of 76

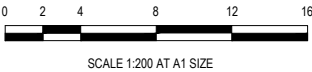
Scale
1:200 H 1:20 V @ A1



- NOTES
1. RRPM'S AT MAX 6m SPACING.
 2. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
 3. LINEMARKING IN ACCORDANCE WITH AS1742.
 4. TGSi TO BE INSTALLED IN ACCORDANCE WITH AS1428.4.1-2009 & VICROADS SUPPLEMENTARY STANDARD TEM Vol 2 Part 2.23
 5. ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVANT STREET NUMBERING.
 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.
 7. EVERY LOT TO HAVE STREET NUMBER STAMPED ON KERB IN ACCORDANCE WITH COUNCIL REQUIREMENTS. CONTRACTOR TO OBTAIN LATEST STREET NUMBERING FROM SURVEY CONSULTANT PRIOR TO STAMPING.

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P3	SERVICE OFFSETS UPDATED ON GALAH WALK AND CUBBY WALK	07.10.25	HW	CD					
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P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					
REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP



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Date	28.08.25
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Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE001/2536
Date	28.08.25
PS Number	PS931746C

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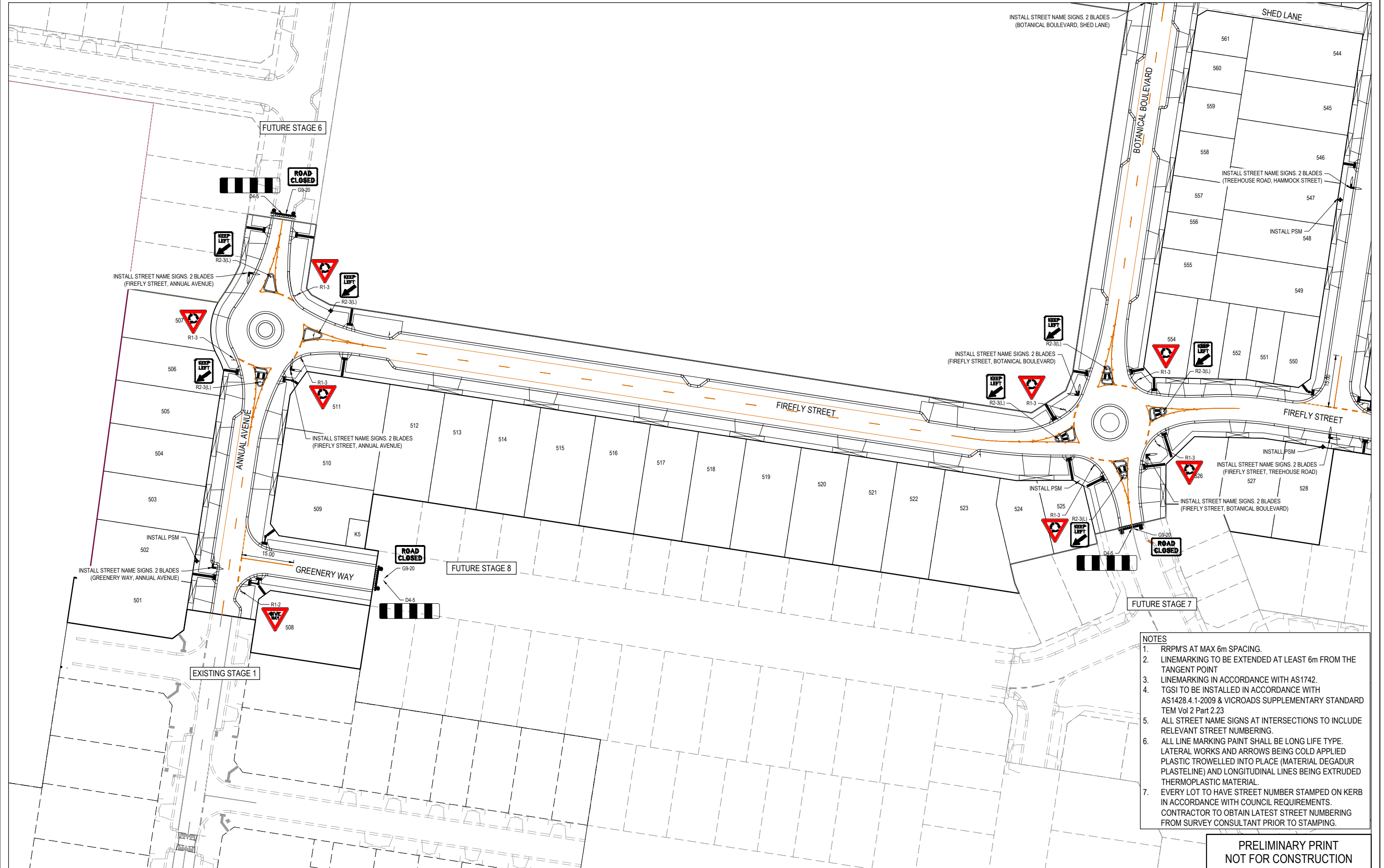
Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	SIGNAGE & LINE MARKING PLANS (SHEET 2 OF 4)

Sheet 54 of 76

Scale 1:200 @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	351	P3



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Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0012526
Date	28.08.25
PS Number	PS931746C

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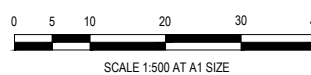
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Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	SIGNAGE & LINE MARKING PLANS (SHEET 3 OF 4)

Sheet 55 of 76			
Scale	1:500 @ A1		
Project Ref	Stage No	Drawing No	Rev
1701814	05	352	P3

- NOTES**
1. RRPM'S AT MAX 6m SPACING.
 2. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
 3. LINEMARKING IN ACCORDANCE WITH AS1742.
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Approved	C.DAWSON
Reg. No.	PE0012526
Date	28.08.25
PS Number	PS931746C



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Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	SIGNAGE & LINE MARKING PLANS (SHEET 4 OF 4)

Sheet 56 of 76

Scale
1:500 @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	353	P3



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

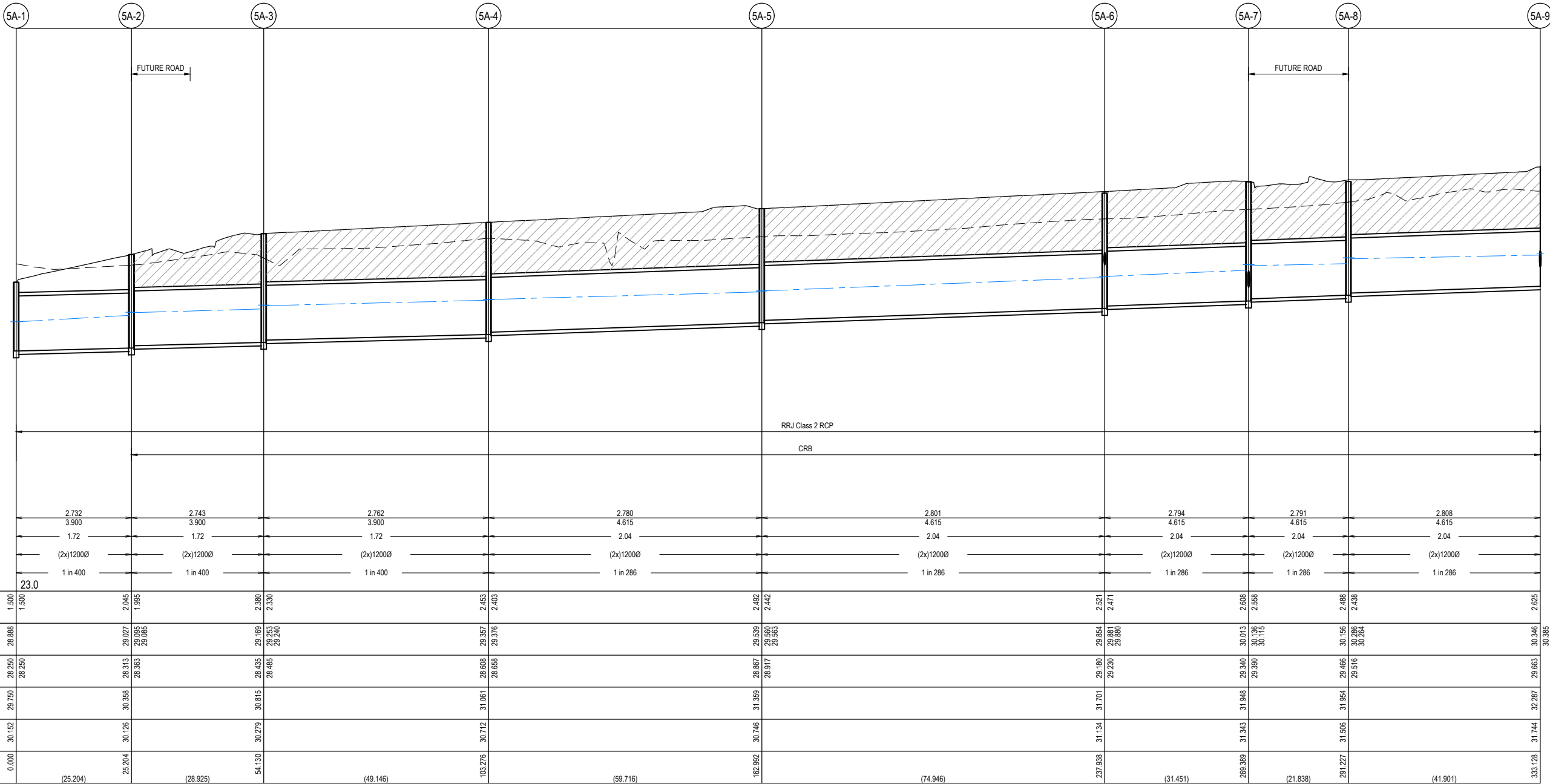
DESIGN SURFACE

DRAINAGE PIPE/PIT

EXISTING DRAINAGE PIPE/PIT

HYDRAULIC GRADE LINE

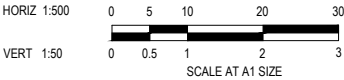
DENOTES 20mm CLASS 3 FCR BACKFILL.



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P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					



Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL

Drawing Title
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 1 OF 14)

Sheet 57 of 76

Scale
1:500 H 1:50 V @ A1

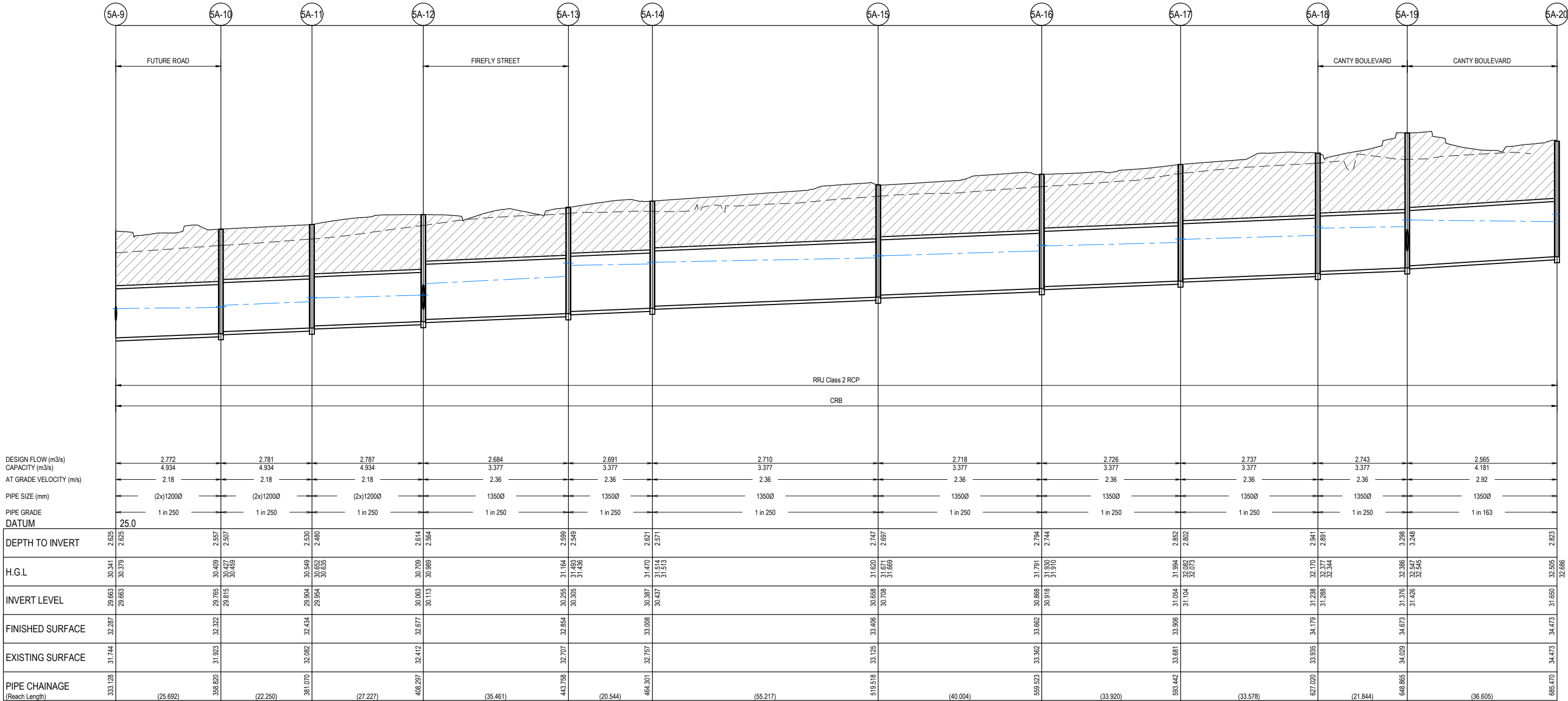
Project Ref	Stage No	Drawing No	Rev
1701814	05	400	P2

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

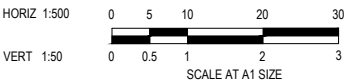
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P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					



Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

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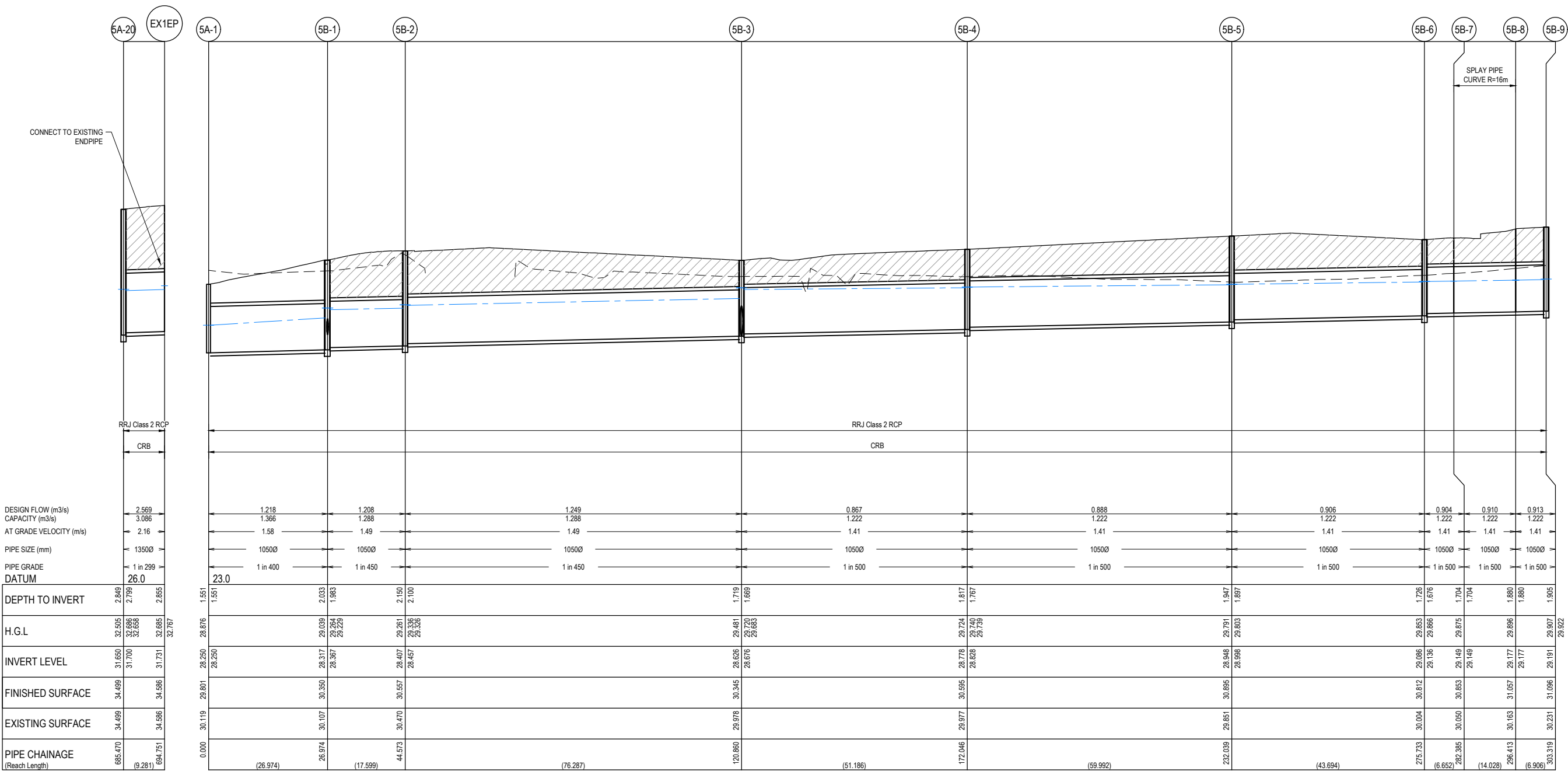
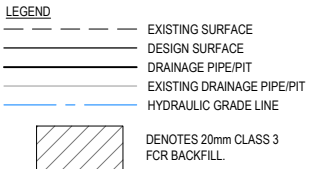
Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 2 OF 14)

Sheet 58 of 76

Scale
1:500 H 1:50 V @ A1

Project Ref 1701814
Stage No 05
Drawing No 401
Rev P2

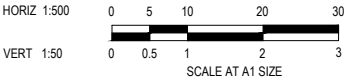
NOTES:
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.



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Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 3 OF 14)

Sheet 59 of 76

Scale
1:500 H 1:50 V @ A1

Project Ref 1701814
Stage No 05
Drawing No 402
Rev P2

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

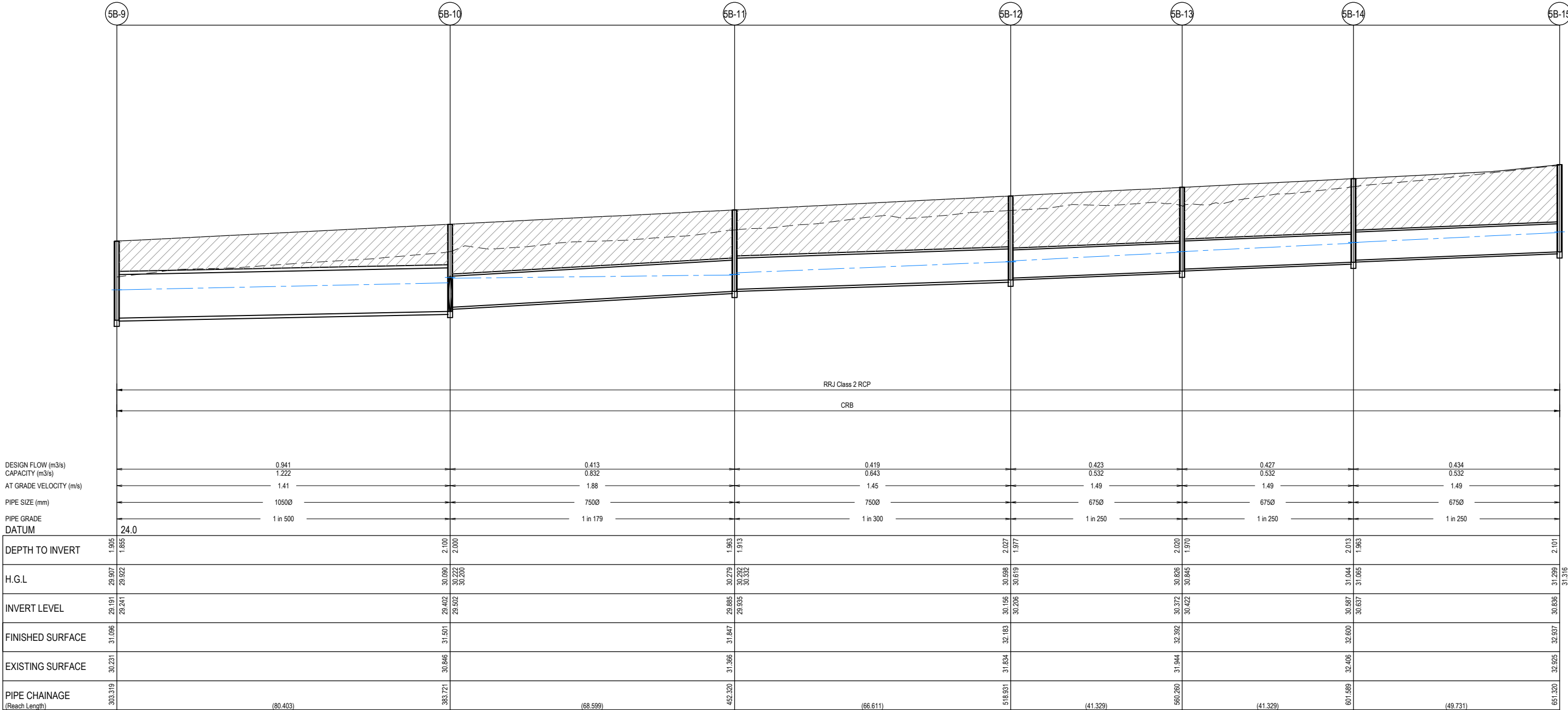
DESIGN SURFACE

DRAINAGE PIPE/PIT

EXISTING DRAINAGE PIPE/PIT

HYDRAULIC GRADE LINE

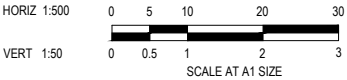
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Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL

Drawing Title
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 4 OF 14)

Sheet 60 of 76

Scale
1:500 H 1:50 V @ A1

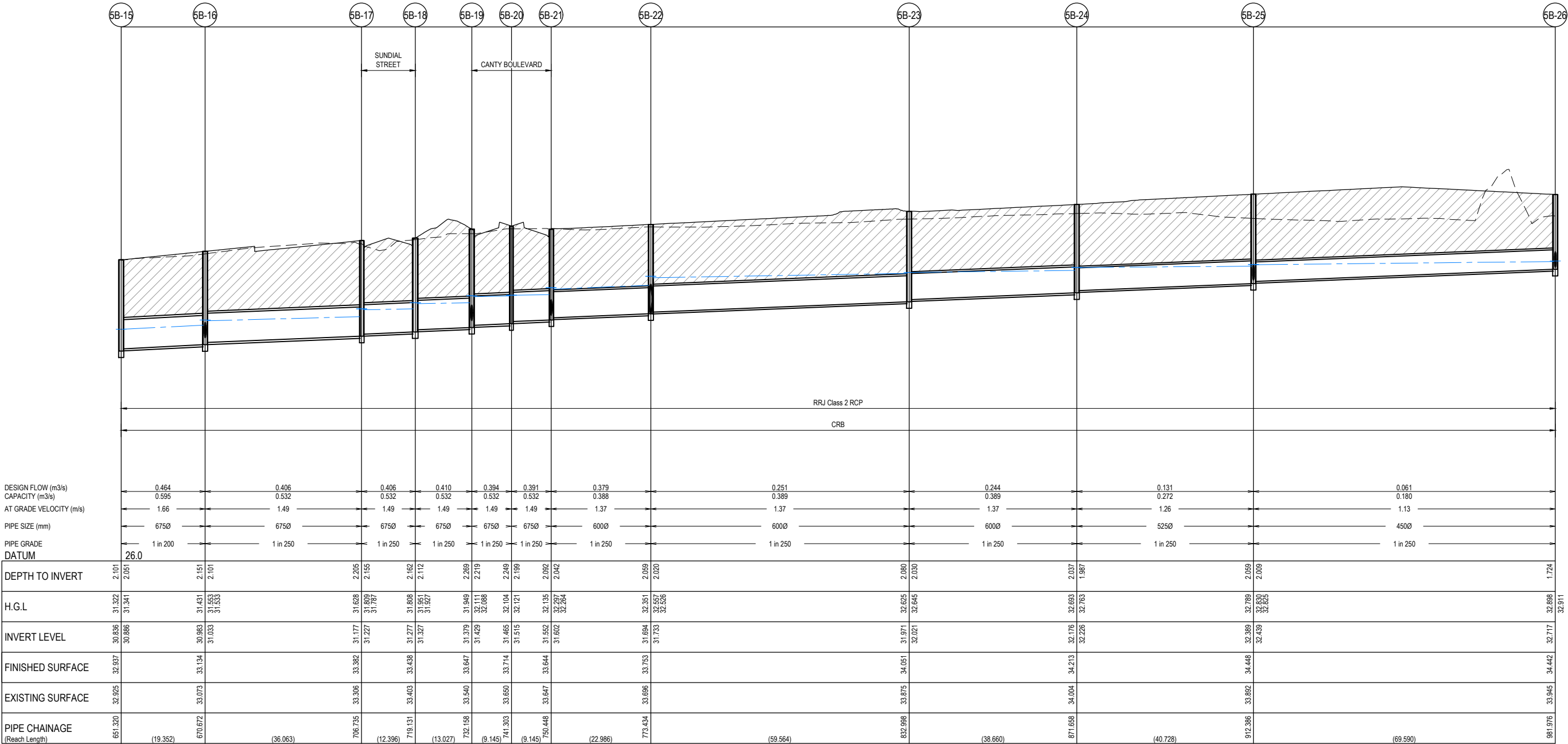
Project Ref	Stage No	Drawing No	Rev
1701814	05	403	P2

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

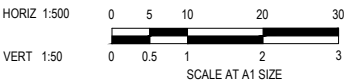
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Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 5 OF 14)

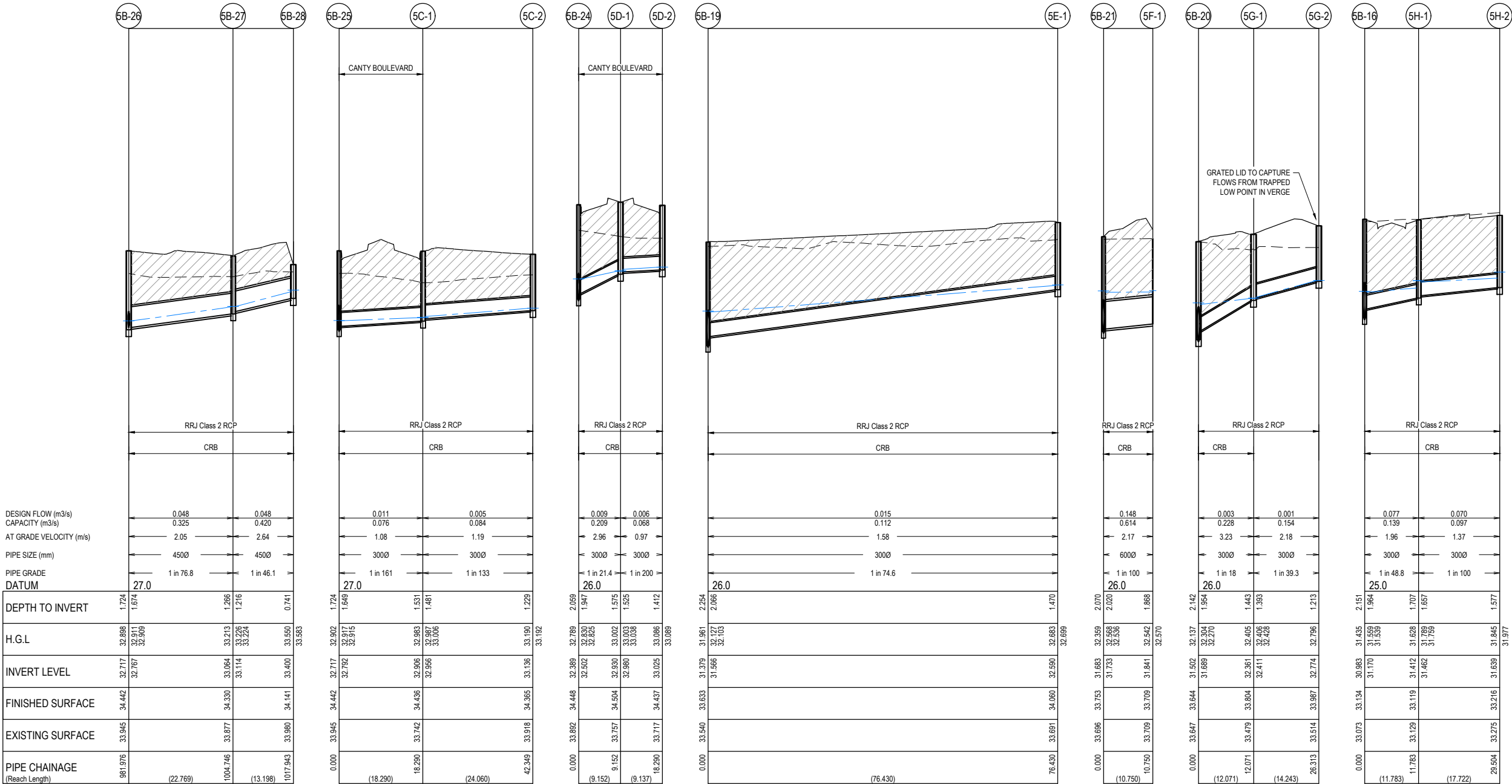
Sheet 61 of 76

Scale
1:500 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	404	P2

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

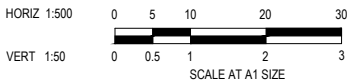
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	DENOTES 20mm CLASS 3 FCR BACKFILL.



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Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 6 OF 14)

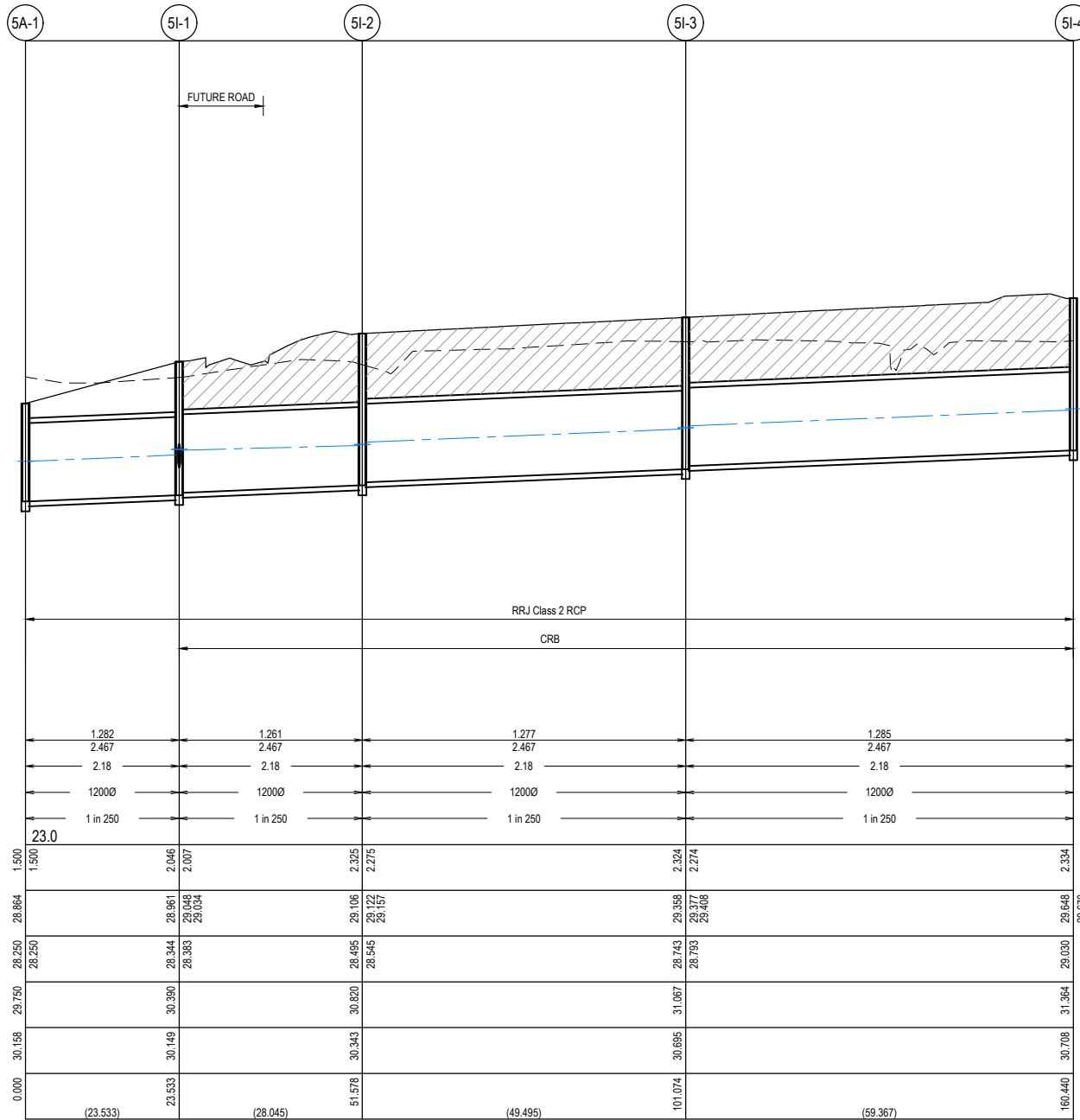
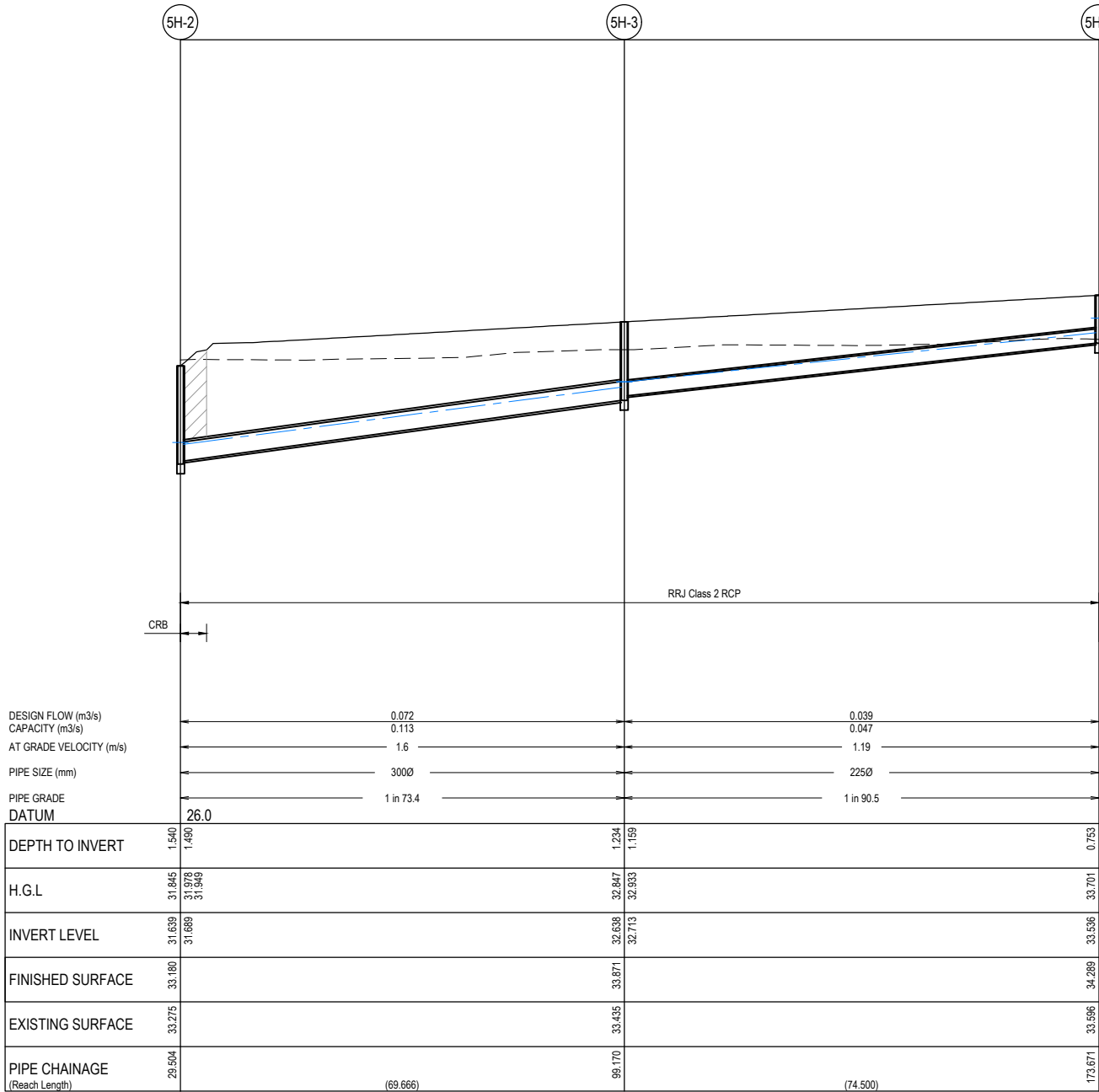
Sheet 62 of 76

Scale
1:500 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	405	P2

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.

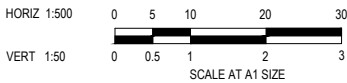


P3

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P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					



Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE9012536
Date 28.08.25
PS Number PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 7 OF 14)

Sheet 63 of 76

Scale
1:500 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	406	P3

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

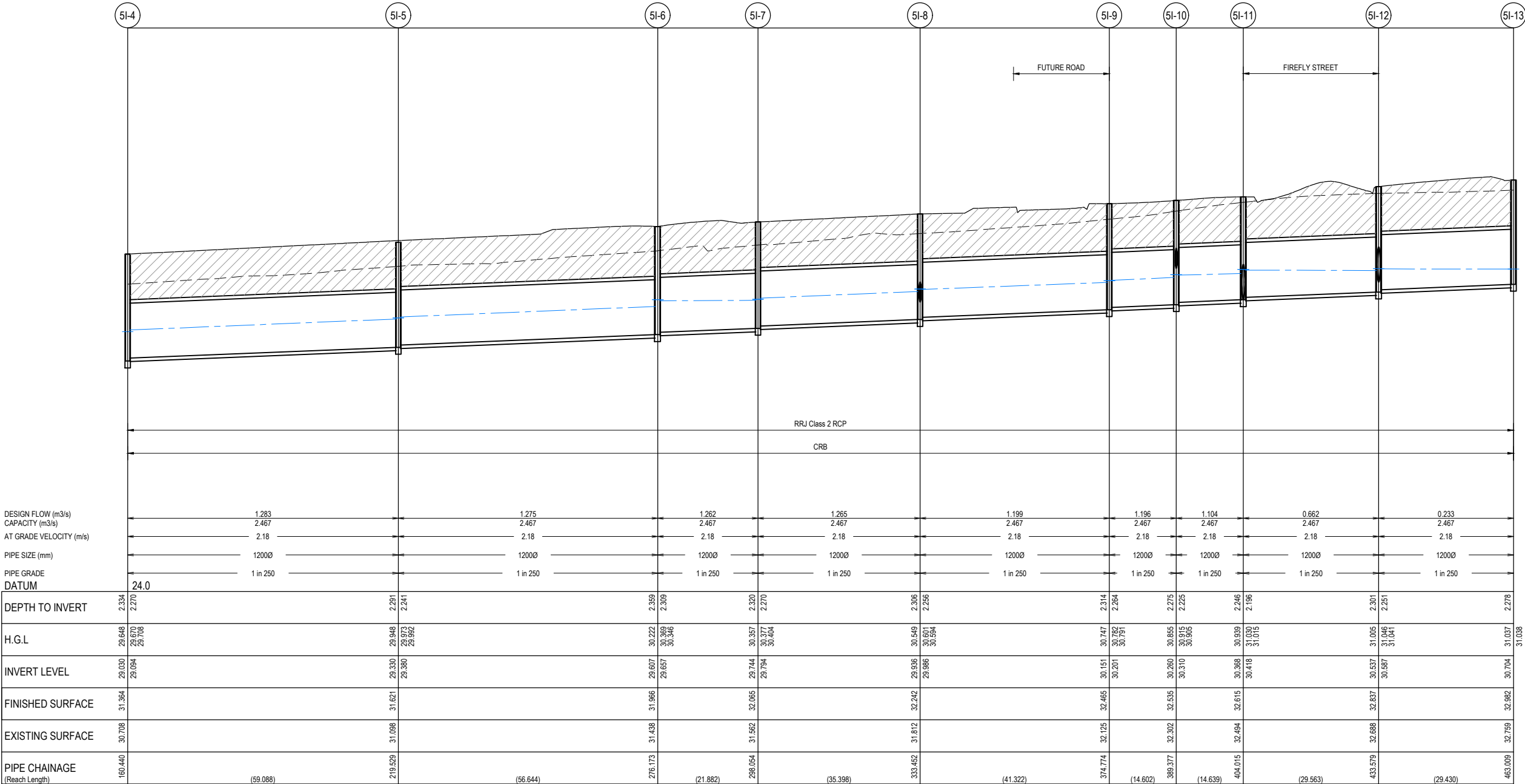
DESIGN SURFACE

DRAINAGE PIPE/PIT

EXISTING DRAINAGE PIPE/PIT

HYDRAULIC GRADE LINE

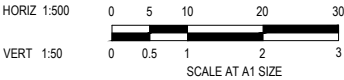
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P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					



Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL

Drawing Title
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 8 OF 14)

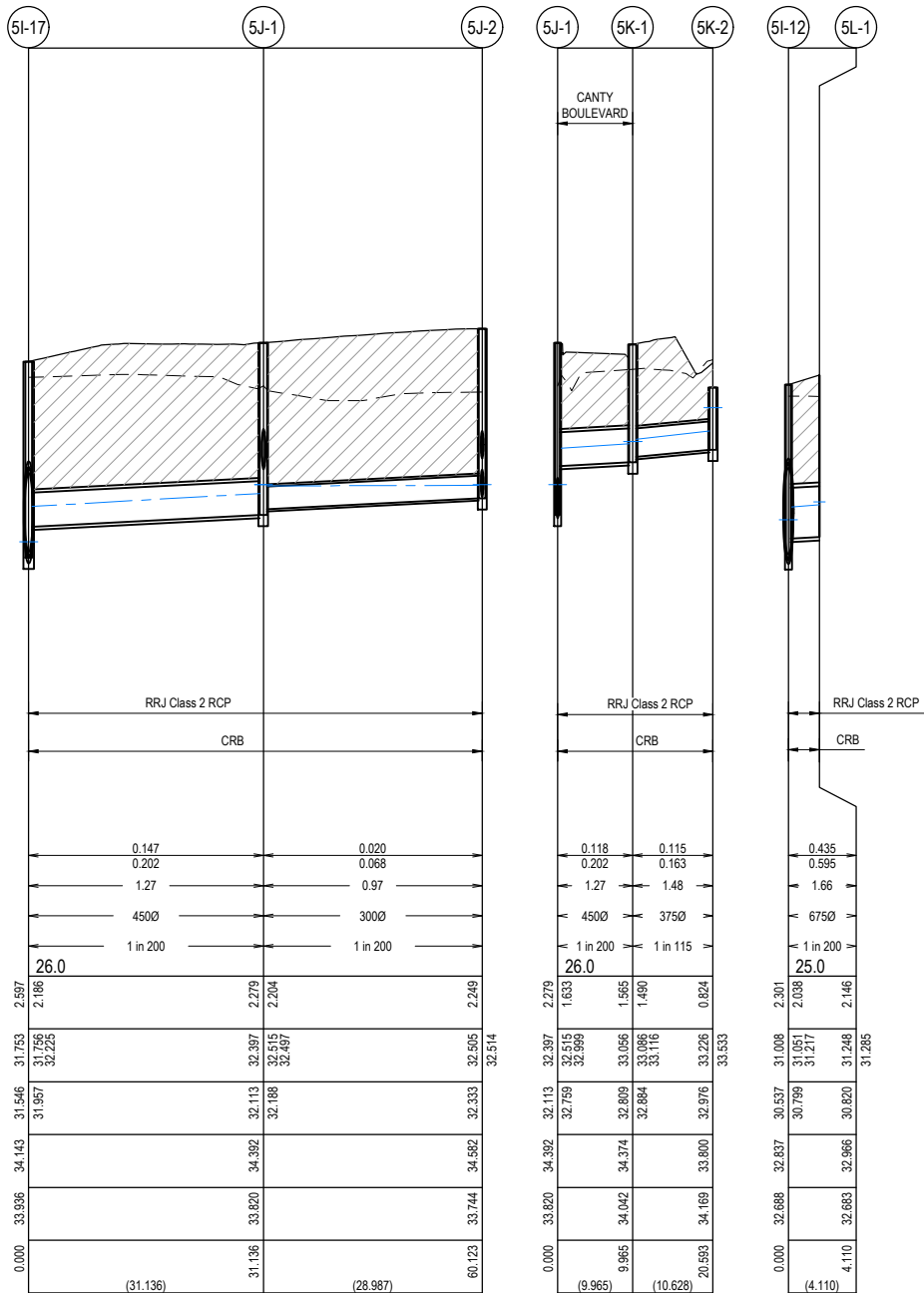
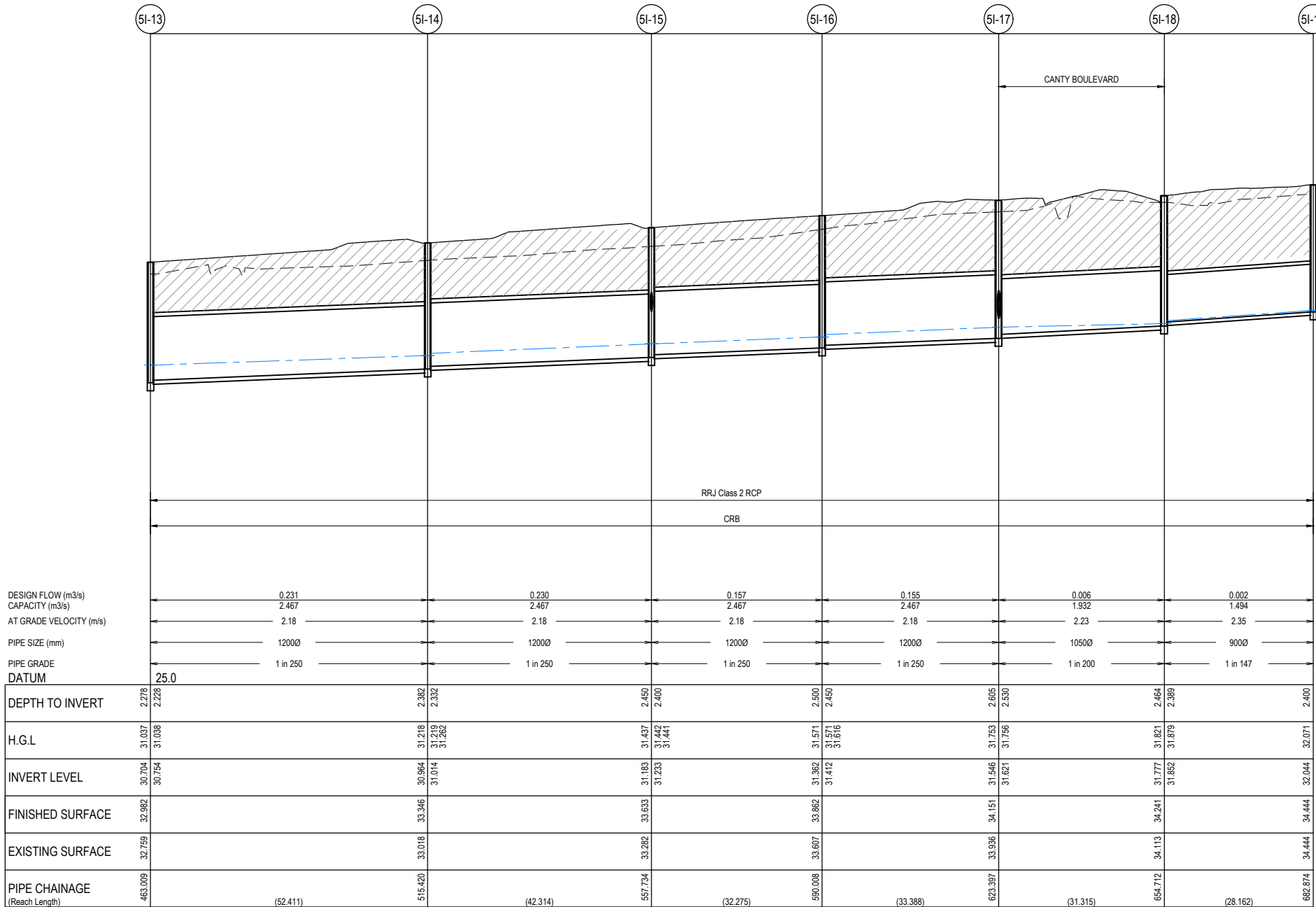
Sheet 64 of 76

Scale
1:500 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	407	P2

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

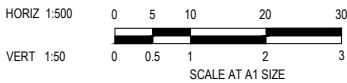
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	DENOTES 20mm CLASS 3 FCR BACKFILL.



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Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 9 OF 14)

Sheet 65 of 76

Scale
1:500 H 1:50 V @ A1

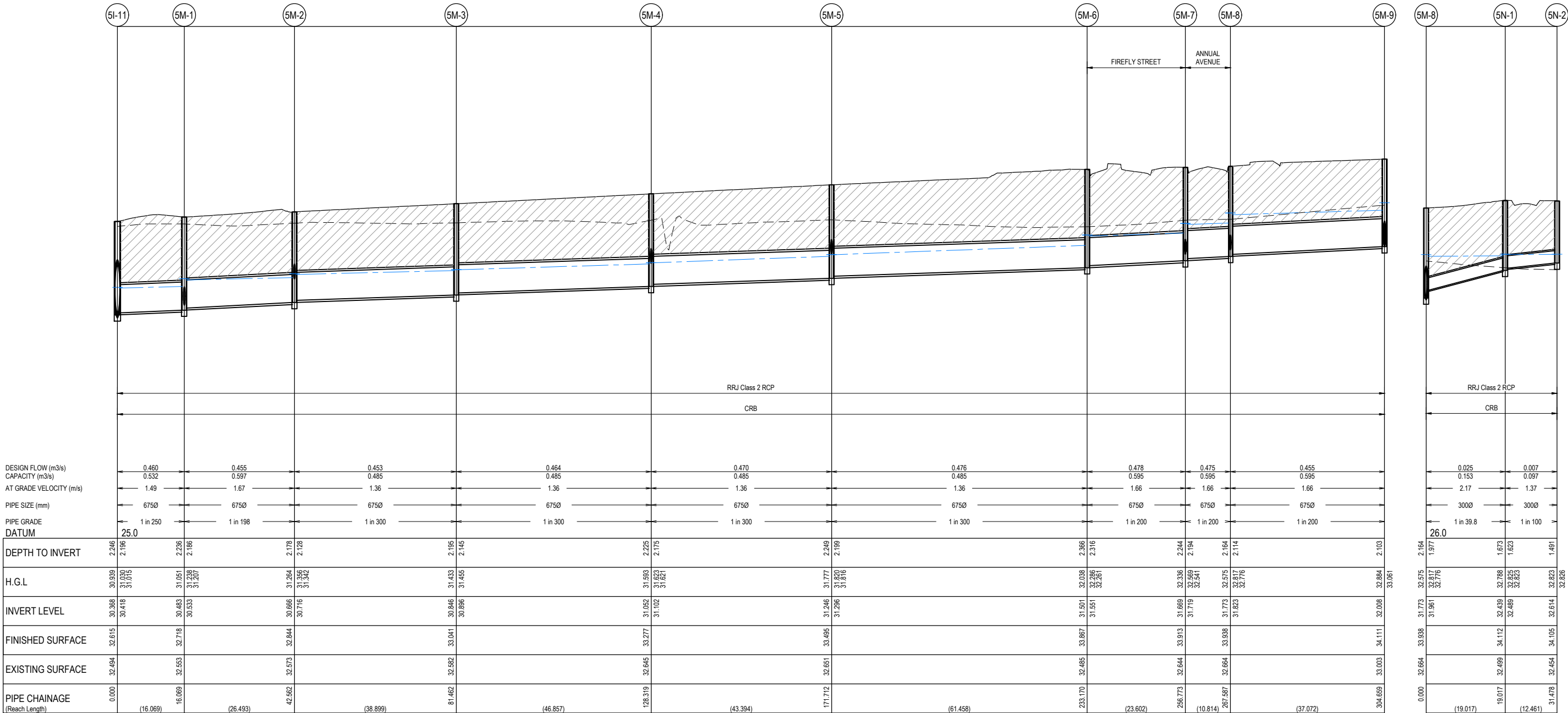
Project Ref 1701814
Stage No 05
Drawing No 408
Rev P2

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

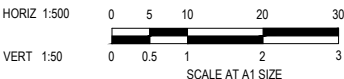
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Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0012536
Date 28.08.25
PS Number PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 10 OF 14)

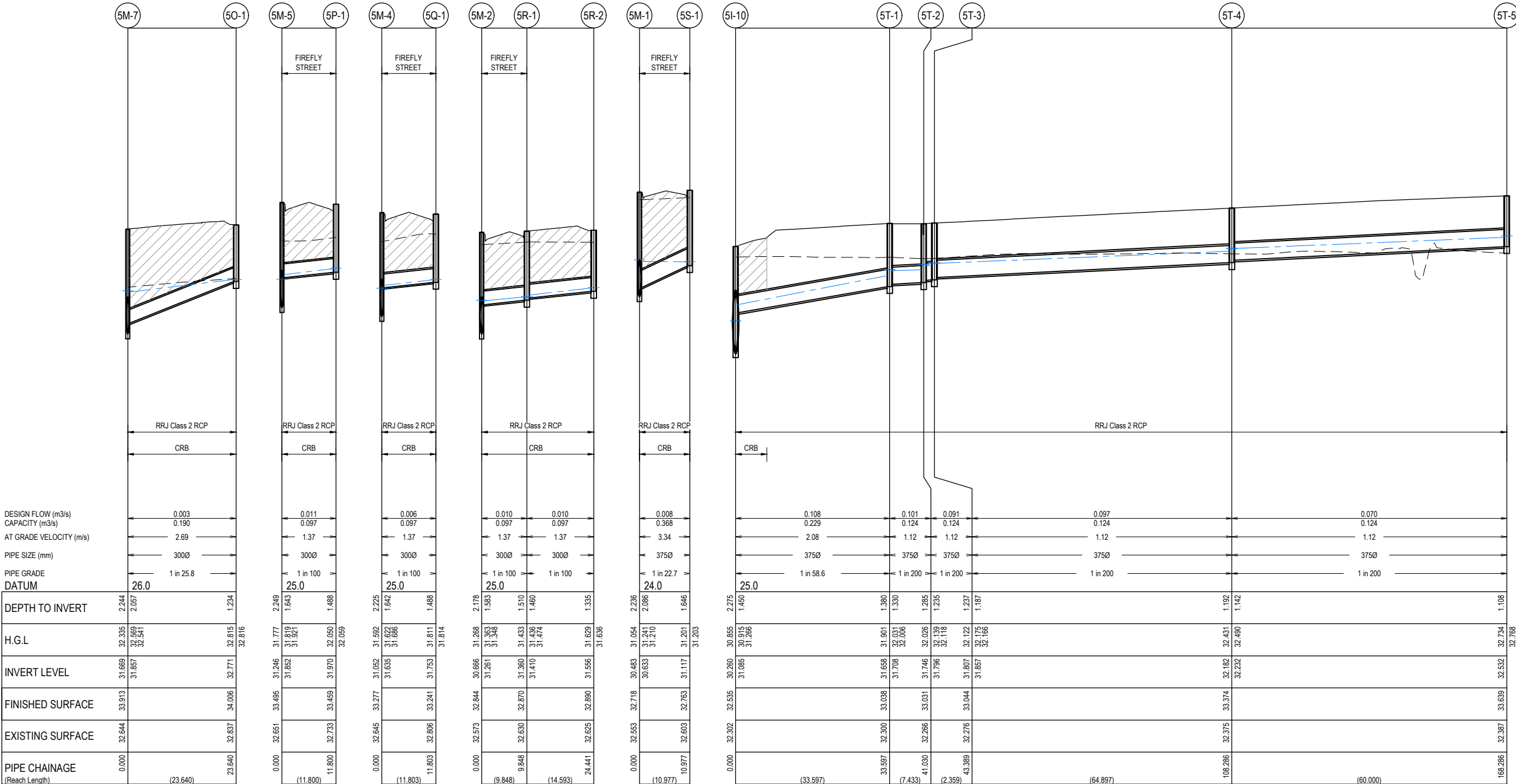
Sheet 66 of 76

Scale
1:500 H 1:50 V @ A1

Project Ref 1701814
Stage No 05
Drawing No 409
Rev P2

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

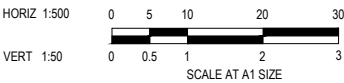
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	DENOTES 20mm CLASS 3 FCR BACKFILL.



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Designed N.SMOLENAARS
Date 28.08.25
Drawn L.SUTHERLAND
Checked C.DAWSON
Date 28.08.25
Approved C.DAWSON
Reg. No. PE0912536
Date 28.08.25
PS Number PS931746C

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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 11 OF 14)

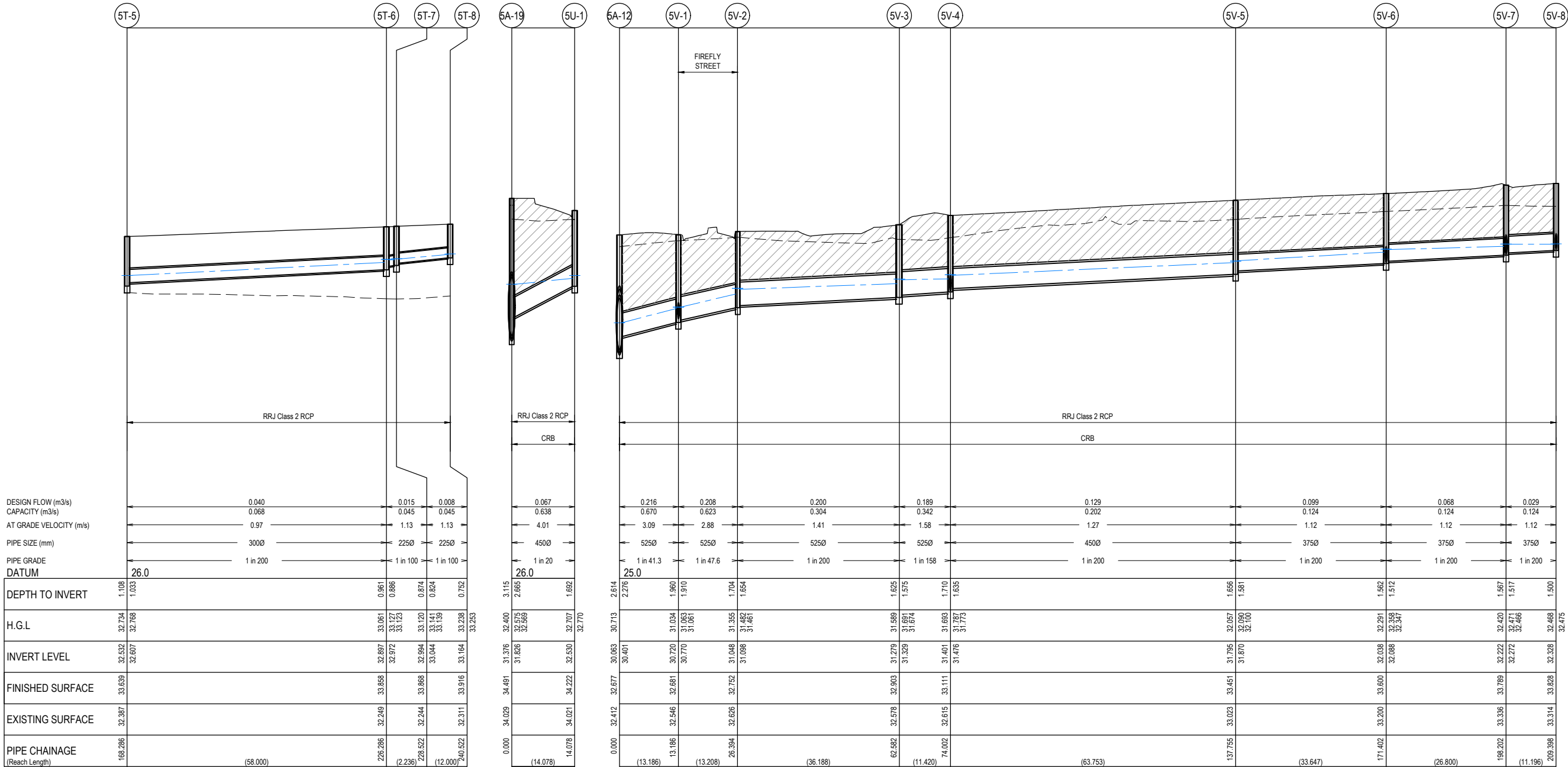
Sheet 67 of 76

Scale
1:500 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	410	P2

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

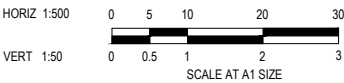
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	DENOTES 20mm CLASS 3 FCR BACKFILL.



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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 12 OF 14)

Sheet 68 of 76

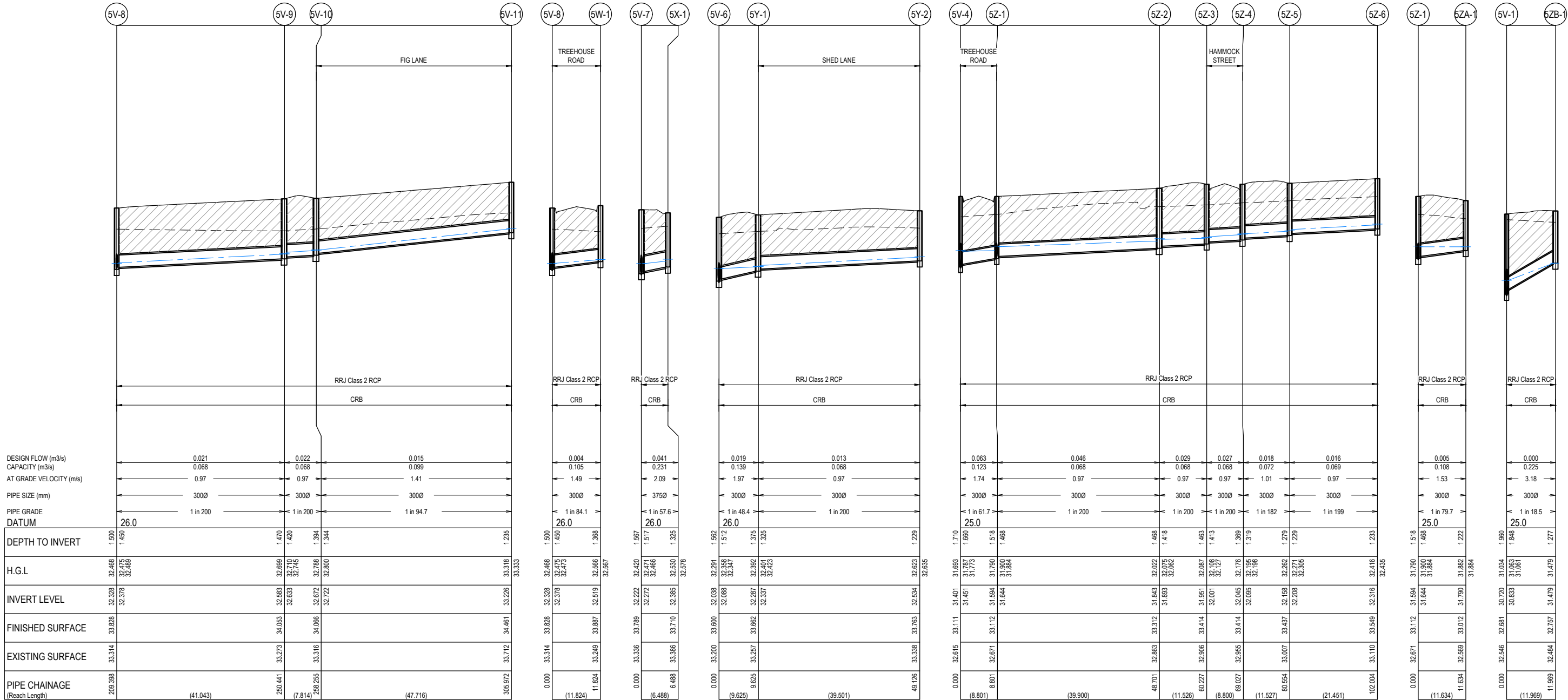
Scale
1:500 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	411	P2

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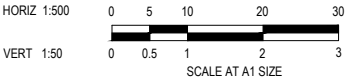
NOTES:
ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

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



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P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD							
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD							
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.		



Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0912536
Date	28.08.25
PS Number	PS931746C

BW Beveridge Williams
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1 Glenferrie Road
Malvern VIC 3144
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Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	DRAINAGE LONGITUDINAL SECTIONS (SHEET 13 OF 14)

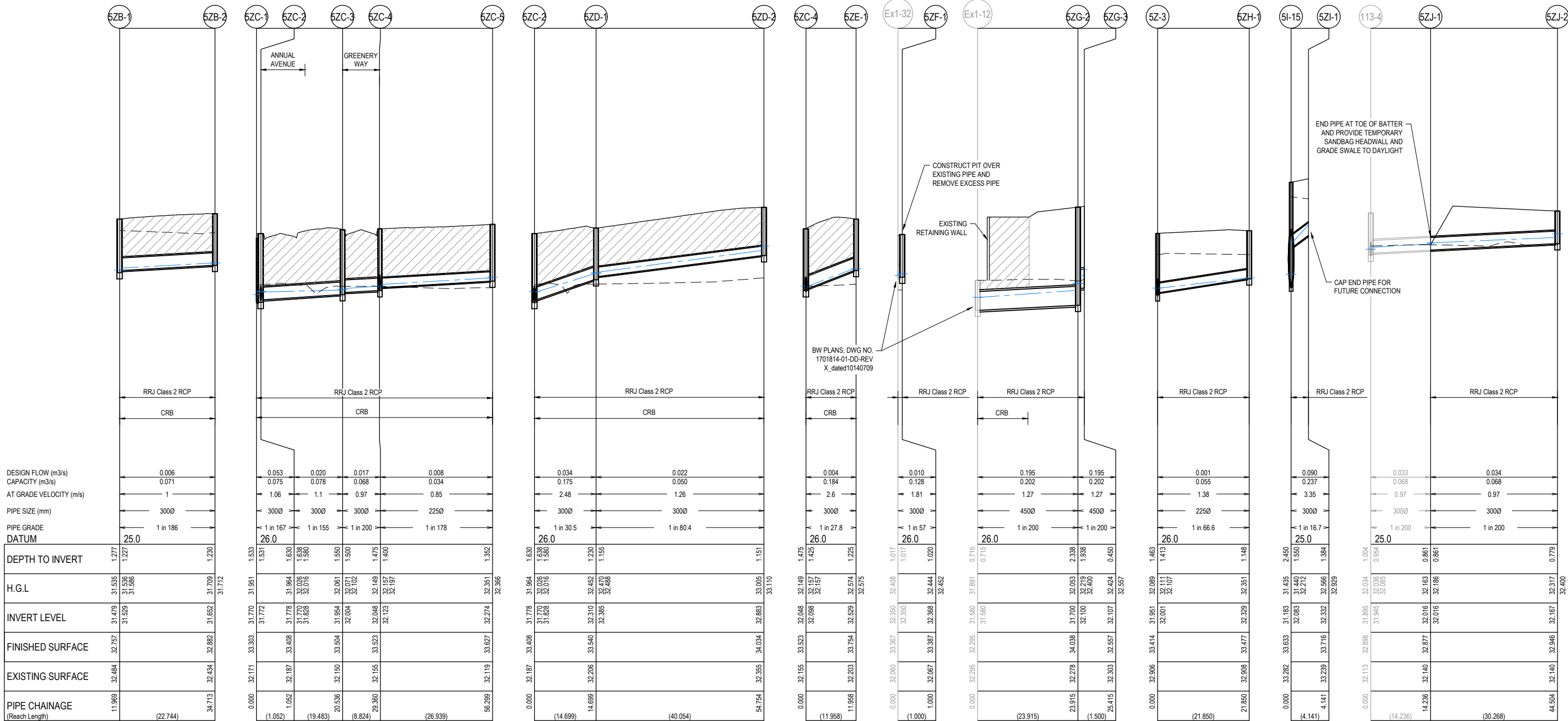
Sheet 69 of 76

Scale
1:500 H 1:50 V @ A1

Project Ref	Stage No	Drawing No	Rev
1701814	05	412	P2

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

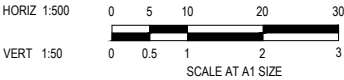
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	DENOTES 20mm CLASS 3 FCR BACKFILL



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Designed N.SMOLENAARS
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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 14 OF 14)

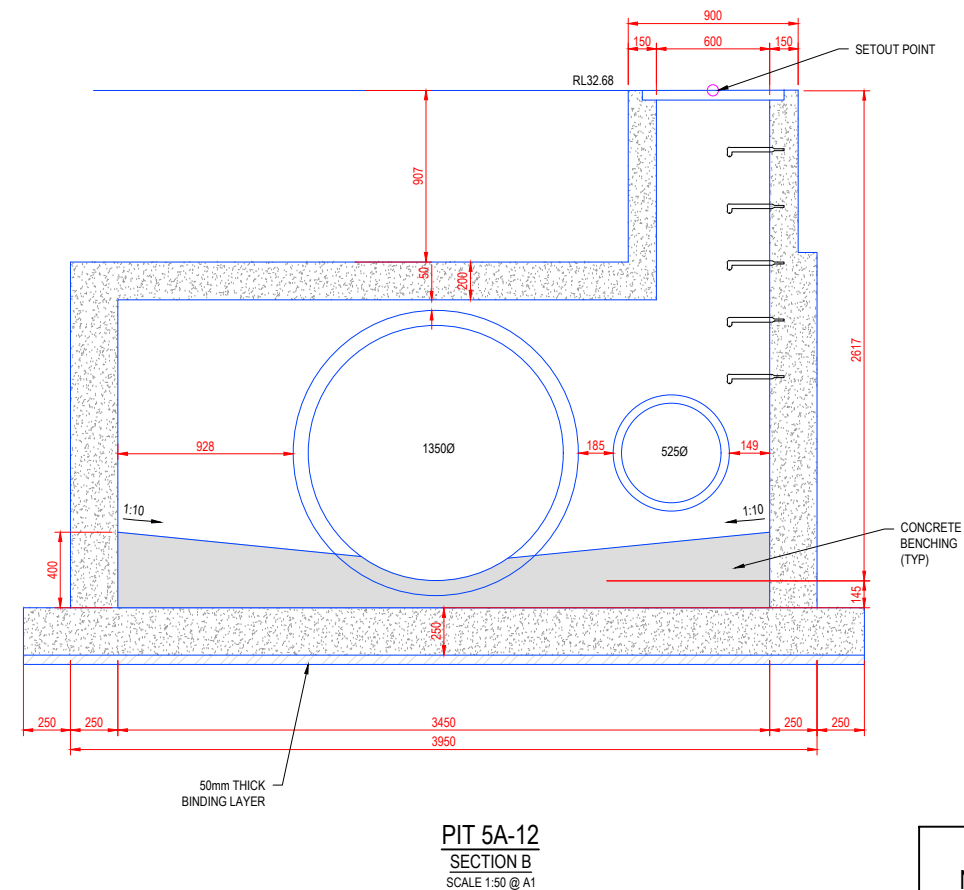
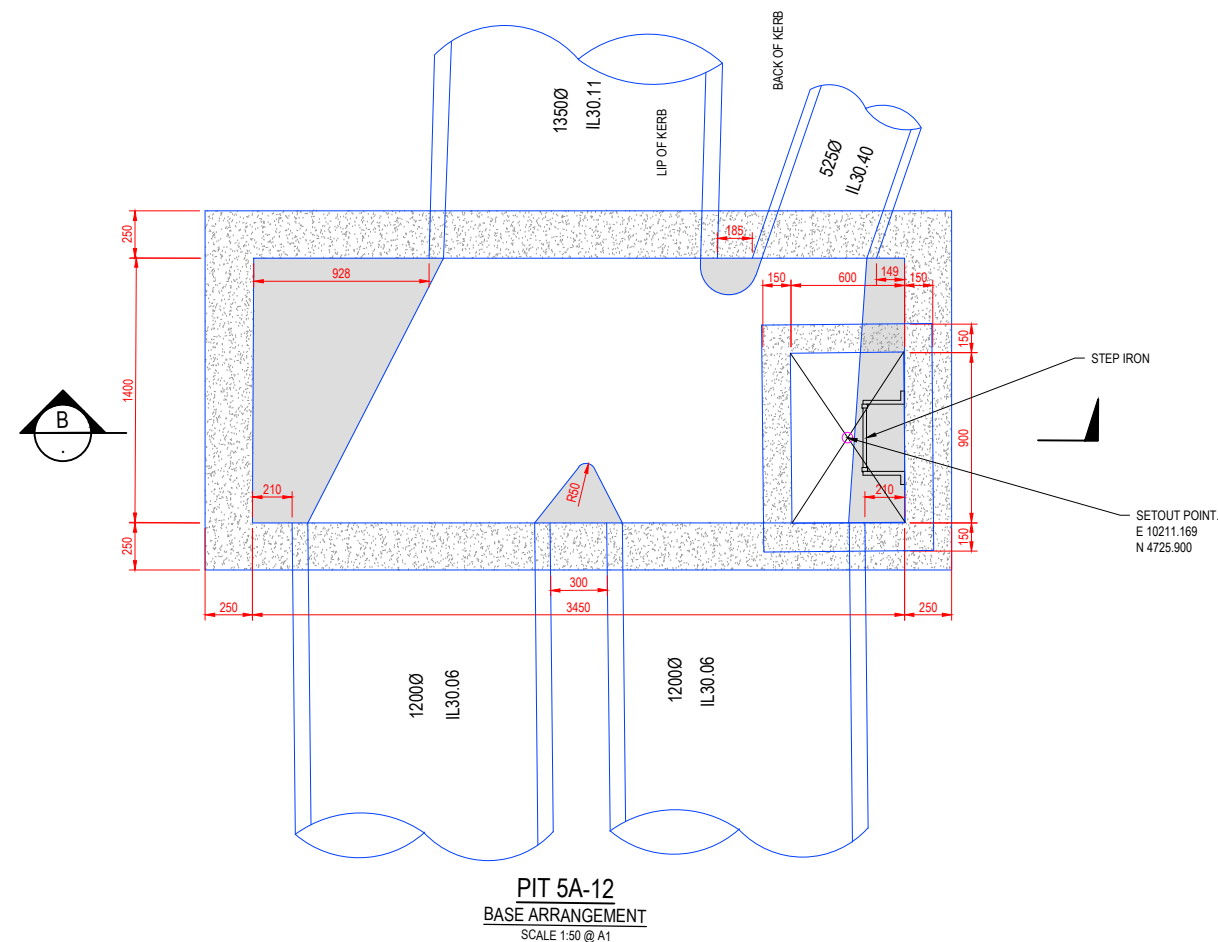
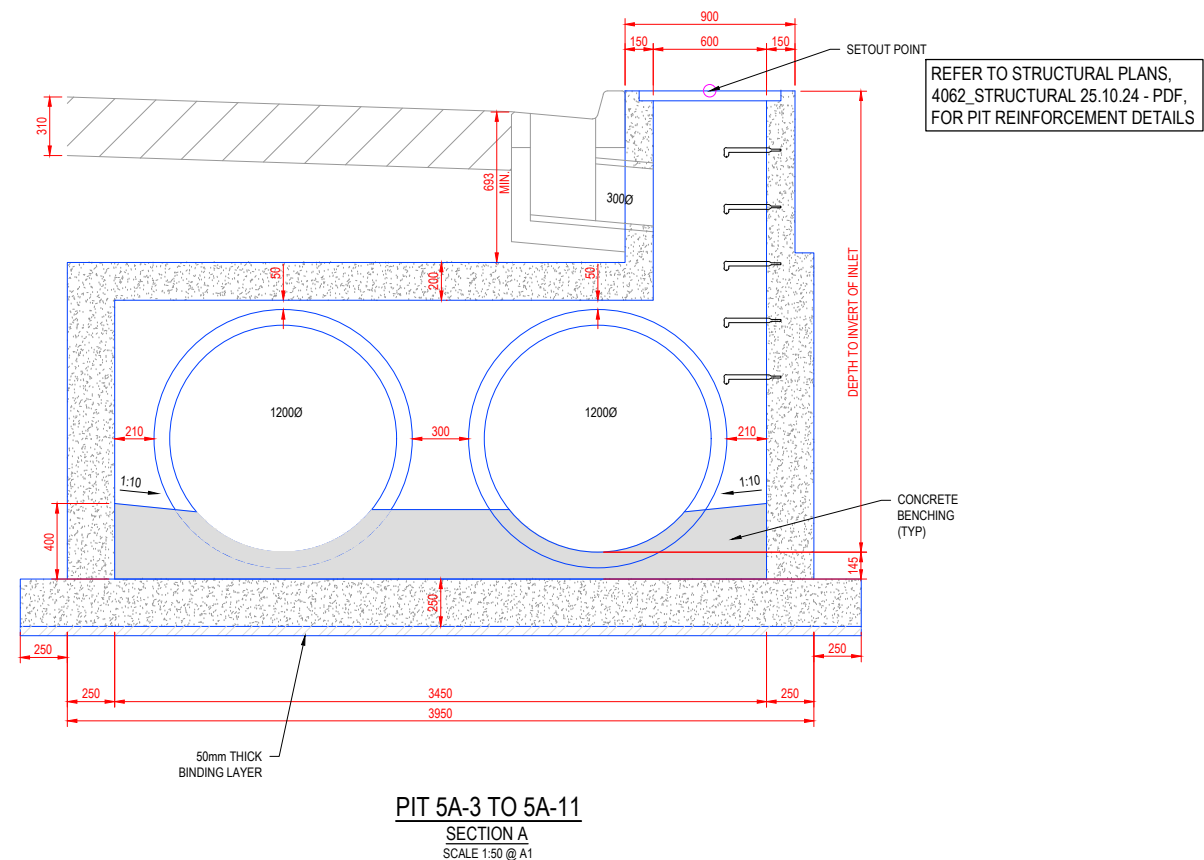
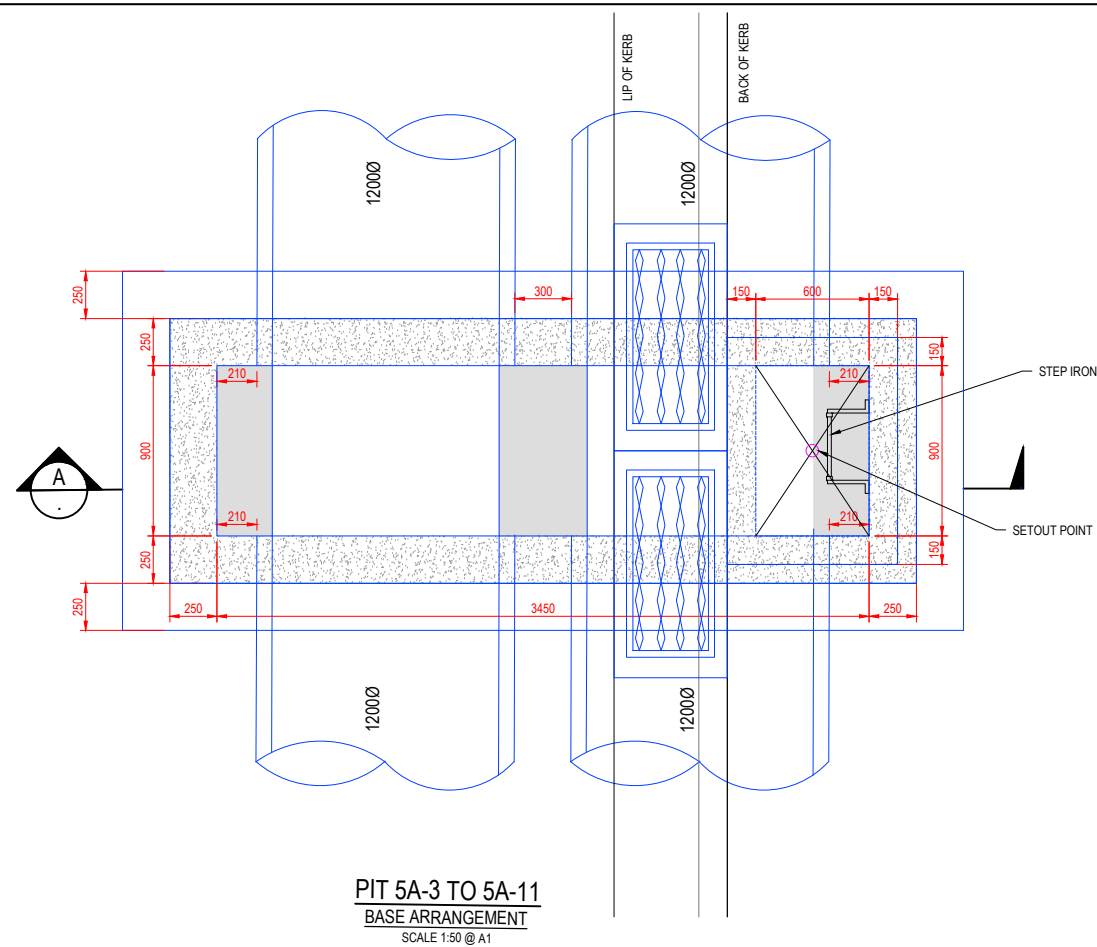
Sheet 70 of 76

Scale
1:500 H 1:50 V @ A1

Project Ref 1701814
Stage No 05
Drawing No 413
Rev P2

PIT SCHEDULE															REMARKS	EASTING	NORTHING	
PIT NAME	PIT TYPE	LID		INTERNAL		INLET		OUT LET		F.S.L	DEPTH (m)	PIT DETAIL	HAUNCH DETAIL	STEP IRONS	HEAVY DUTY			
		WIDTH (mm)	LENGTH (mm)	WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INVR L (mm)	DIA	INVR L (m)									
5A-1	CONCRETE WINGWALL					(2x)1200 1050 1200	28.25 28.25 28.25			29.75	1.5	-	-	-		VICROADS STANDARD DRAWING SD1931	10200.43	4332.85
5A-2	JUNCTION PIT	600	900	3450	900	(2x)1200	28.36	(2x)1200	28.31	30.358	2.045	-	-	EDCM609	-		10212.24	4355.11
5A-3	DOUBLE GRATED SIDE ENTRY PIT	600	900	3450	900	(2x)1200	28.49	(2x)1200	28.44	30.815	2.38	-	-	EDCM609	-	REFER TO PIT DETAILS	10221.90	4382.37
5A-4	DOUBLE GRATED SIDE ENTRY PIT	600	900	3450	900	(2x)1200	28.66	(2x)1200	28.61	31.061	2.453	-	-	EDCM609	-	REFER TO PIT DETAILS	10229.33	4430.96
5A-5	DOUBLE GRATED SIDE ENTRY PIT	600	900	3450	900	(2x)1200	28.92	(2x)1200	28.87	31.359	2.492	-	-	EDCM609	-	REFER TO PIT DETAILS	10238.35	4489.99
5A-6	DOUBLE GRATED SIDE ENTRY PIT	600	900	3450	900	(2x)1200	29.23	(2x)1200	29.18	31.701	2.521	-	-	EDCM609	-	REFER TO PIT DETAILS	10249.67	4564.07
5A-7	JUNCTION PIT	600	900	3450	900	(2x)1200	29.39	(2x)1200	29.34	31.948	2.608	-	-	EDCM609	-	REFER TO PIT DETAILS	10254.64	4595.13
5A-8	DOUBLE GRATED SIDE ENTRY PIT	600	900	3450	900	(2x)1200	29.52	(2x)1200	29.47	31.954	2.488	-	-	EDCM609	-	REFER TO PIT DETAILS	10252.17	4616.83
5A-9	PIPE TO PIPE CONNECTION			3450	900	(2x)1200	29.66	(2x)1200	29.66	32.287	2.625	-	-	-	-	REFER TO MELBOURNE WATER STANDARD DRAWING 7251/08/425	10235.32	4655.19
5A-10	GRATED SIDE ENTRY PIT	600	900	3450	900	(2x)1200	29.82	(2x)1200	29.77	32.322	2.557	-	-	EDCM609	-	REFER TO PIT DETAILS	10225.10	4678.76
5A-11	GRATED SIDE ENTRY PIT	600	900	3450	900	(2x)1200	29.95	(2x)1200	29.90	32.434	2.53	-	-	EDCM609	-	REFER TO PIT DETAILS	10216.16	4699.13
5A-12	JUNCTION PIT	600	900	3450	900	1350 525	30.11 30.40	(2x)1200	30.06	32.677	2.614	-	-	EDCM609	-	REFER TO PIT DETAILS	10211.17	4725.90
5A-13	DOUBLE GRATED SIDE ENTRY PIT	600	900	1950	900	1350	30.31	1350	30.26	32.854	2.599	EDCM604	EDCM607	EDCM609	-		10205.00	4760.82
5A-14	DOUBLE GRATED SIDE ENTRY PIT	600	900	1650	900	1350	30.44	1350	30.39	32.974	2.587	EDCM602	EDCM607	EDCM609	-		10208.24	4781.11
5A-15	DOUBLE GRATED SIDE ENTRY PIT	600	900	1650	900	1350	30.71	1350	30.66	33.374	2.715	EDCM602	EDCM607	EDCM609	-		10216.58	4835.69
5A-16	DOUBLE GRATED SIDE ENTRY PIT	600	900	1650	900	1350	30.92	1350	30.87	33.662	2.793	EDCM602	EDCM607	EDCM609	-		10222.24	4875.29
5A-17	DOUBLE GRATED SIDE ENTRY PIT	600	900	1650	900	1350	31.10	1350	31.05	33.906	2.852	EDCM602	EDCM607	EDCM609	-		10223.34	4909.19
5A-18	DOUBLE GRATED SIDE ENTRY PIT	600	900	1800	900	1350	31.29	1350	31.24	34.179	2.941	EDCM604	EDCM607	EDCM609	-		10222.55	4942.76
5A-19	JUNCTION PIT	600	900	1650	900	1350	31.43	1350	31.38	34.673	3.298	EDCM605	EDCM607	EDCM609	-		10218.04	4964.14
5A-20	DOUBLE TIERED FLOOD GRATES	885	890	1750	2090	1350	31.70	1350	31.65	34.499	2.849	EDCM602	EDCM607	EDCM609	-	REFER TO PIT DETAILS. TO SUIT 600E2 KERB	10210.69	5000.04
5B-1	END PIPE	-	-				31.73	1350	31.73	34.586	2.855	-	-	-	-	CURVE TANGENT POINT.	10210.44	5009.26
5B-1	JUNCTION PIT	600	900	1350	1800	1050 300	28.37 28.69	1050	28.32	30.35	2.033	EDCM605	EDCM607	EDCM609	-		10220.36	4354.28
5B-2	GRATED SIDE ENTRY PIT	600	900	1200	900	1050	28.46	1050	28.41	30.557	2.15	EDCM601	EDCM607	EDCM609	-	CONSTRUCT INLET AS PART OF FUTURE WORKS. PROVIDE TEMPORARY INLET COVER. HAUGH UNDER NATURE STRIP	10236.88	4360.34
5B-3	DOUBLE GRATED SIDE ENTRY PIT	600	900	1200	900	1050 600	28.68 28.67	1050	28.63	30.345	1.719	EDCM602	EDCM607	EDCM609	-	CONSTRUCT INLET AS PART OF FUTURE WORKS. PROVIDE TEMPORARY INLET COVER. HAUGH UNDER NATURE STRIP	10305.19	4394.30
5B-4	GRATED SIDE ENTRY PIT	600	900	1200	900	1050	28.83	1050	28.78	30.595	1.817	EDCM601	EDCM607	EDCM609	-	CONSTRUCT INLET AS PART OF FUTURE WORKS. PROVIDE TEMPORARY INLET COVER. HAUGH UNDER NATURE STRIP	10349.41	4420.08
5B-5	GRATED SIDE ENTRY PIT	600	900	1200	900	1050	29.00	1050	28.95	30.895	1.947	EDCM601	EDCM607	EDCM609	-	CONSTRUCT INLET AS PART OF FUTURE WORKS. PROVIDE TEMPORARY INLET COVER. HAUGH UNDER NATURE STRIP	10400.83	4451.00
5B-6	DOUBLE GRATED SIDE ENTRY PIT	600	900	1200	900	1050	29.14	1050	29.09	30.812	1.726	EDCM602	EDCM607	EDCM609	-	CONSTRUCT INLET AS PART OF FUTURE WORKS. PROVIDE TEMPORARY INLET COVER. HAUGH UNDER NATURE STRIP	10438.27	4473.51
5B-7	TANGENT POINT	-	-			1050	29.15	1050	29.15	30.853	1.704	-	-	-	-	CURVE TANGENT POINT.	10443.97	4476.94
5B-8	TANGENT POINT	-	-			1050	29.18	1050	29.18	31.057	1.88	-	-	-	-	CURVE TANGENT POINT.	10451.53	4488.23
5B-9	DOUBLE GRATED SIDE ENTRY PIT	600	900	1200	900	1050	29.24	1050	29.19	31.096	1.905	EDCM602	EDCM607	EDCM609	-	CONSTRUCT INLET AS PART OF FUTURE WORKS. PROVIDE TEMPORARY INLET COVER. HAUGH UNDER NATURE STRIP	10452.57	4495.05
5B-10	DOUBLE GRATED SIDE ENTRY PIT	600	900	1200	900	750 750	29.50 29.45	1050	29.40	31.501	2.1	EDCM601	EDCM607	EDCM609	-	CONSTRUCT INLET AS PART OF FUTURE WORKS. PROVIDE TEMPORARY INLET COVER. HAUGH UNDER NATURE STRIP	10464.72	4574.53
5B-11	DOUBLE GRATED SIDE ENTRY PIT	600	900	900	900	750	29.94	750	29.89	31.847	1.963	EDCM601	EDCM607	EDCM609	-	CONSTRUCT INLET AS PART OF FUTURE WORKS. PROVIDE TEMPORARY INLET COVER. HAUGH UNDER NATURE STRIP	10475.08	4642.35
5B-12	DOUBLE GRATED SIDE ENTRY PIT	600	900	900	900	675	30.21	750	30.16	32.183	2.027	EDCM601	EDCM607	EDCM609	-	CONSTRUCT INLET AS PART OF FUTURE WORKS. PROVIDE TEMPORARY INLET COVER. HAUGH UNDER NATURE STRIP	10485.15	4708.19
5B-13	DOUBLE GRATED SIDE ENTRY PIT	600	900	900	900	675	30.42	675	30.37	32.392	2.02	EDCM601	EDCM607	EDCM609	-	CONSTRUCT INLET AS PART OF FUTURE WORKS. PROVIDE TEMPORARY INLET COVER. HAUGH UNDER NATURE STRIP	10491.39	4749.05
5B-14	DOUBLE GRATED SIDE ENTRY PIT	600	900	900	900	675	30.64	675	30.59	32.6	2.013	EDCM601	EDCM607	EDCM609	-	CONSTRUCT INLET AS PART OF FUTURE WORKS. PROVIDE TEMPORARY INLET COVER. HAUGH UNDER NATURE STRIP	10497.63	4789.90
5B-15	DOUBLE GRATED SIDE ENTRY PIT	600	900	900	900	675	30.89	675	30.84	32.937	2.101	EDCM601	EDCM607	EDCM609	-	CONSTRUCT INLET AS PART OF FUTURE WORKS. PROVIDE TEMPORARY INLET COVER. HAUGH UNDER NATURE STRIP	10505.14	4839.06
5B-16	GRATED SIDE ENTRY PIT	600	900	900	900	675 300	31.03 31.17	675	30.98	33.134	2.151	EDCM601	EDCM607	EDCM609	-	CONSTRUCT INLET AS PART OF FUTURE WORKS. PROVIDE TEMPORARY INLET COVER. HAUGH UNDER NATURE STRIP	10508.07	4858.19
5B-17	GRATED SIDE ENTRY PIT	600	900	900	900	675	31.23	675	31.18	33.358	2.181	EDCM601	EDCM607	EDCM609	-		10513.52	4893.84
5B-18	JUNCTION PIT	600	900	600	1200	675	31.33	675	31.28	33.405	2.128	EDCM601	EDCM607	EDCM609	-		10502.43	4899.38
5B-19	DOUBLE GRATED SIDE ENTRY PIT	600	900	600	1200	675	31.43	675	31.38	33.627	2.249	EDCM602	EDCM607	EDCM609	-		10494.61	4909.80
5B-20	DOUBLE GRATED SIDE ENTRY PIT	600	900	600	900	600 300	31.55 31.69	675	31.50	33.638	2.136	EDCM602	-	EDCM609	-		10497.41	4927.87
5B-21	GRATED SIDE ENTRY PIT	600	900	600	900	600 600	31.73 31.73	600	31.68	33.753	2.07	EDCM601	-	EDCM609	-		10474.70	4931.40
5B-22	DOUBLE GRATED SIDE ENTRY PIT	600	900	600	900	600	32.02	600	31.97	34.019	2.048	EDCM602	-	EDCM609	-		10415.84	4940.53
5B-23	GRATED SIDE ENTRY PIT	600	900	600	900	525	32.23	600	32.18	34.213	2.037	EDCM601	-	EDCM609	-		10377.64	4946.46
5B-24	GRATED SIDE ENTRY PIT	600	900	600	900	450 300	32.44 32.50	525	32.39	34.448	2.059	EDCM601	-	EDCM609	-		10337.39	4952.71
5B-25	GRATED SIDE ENTRY PIT	600	900	600	900	450 300	32.77 32.79	450	32.72	34.447	1.73	EDCM601	-	EDCM609	-		10268.62	4963.38
5B-26	GRATED SIDE ENTRY PIT	600	900	600	900	450	32.91	450	32.86	34.337	1.478	EDCM604	-	EDCM609	-		10245.98	4965.74
5B-27	END PIPE	-	-			450	32.97	450	32.97	34.141	1.167	-	-	-	-	BLANKED OFF END PIPE FOR FUTURE EXTENSION.	10245.55	4978.93
5C-1	GRATED SIDE ENTRY PIT	600	900	600	900	300	32.92	300	32.92	34.453	1.531	EDCM601	-	EDCM609	-		10265.82	4945.31
5C-2	GRATED SIDE ENTRY PIT	600	900	600	900	300	33.15	300	33.15	34.38	1.228	EDCM601	-	EDCM609	-		10242.74	4952.12
5D-1	DOUBLE GRATED SIDE ENTRY PIT	600	900	600	900	300	32.83	300	32.83	34.437	1.611	EDCM602	-	EDCM609	-		10334.61	4934.63
5E-1	GRATED SIDE ENTRY PIT	600	900	600	900	300	32.59	300	32.59	34.068	1.479	EDCM601	-	EDCM609	YES		10419.08	4921.52
5F-1	END PIPE	-	-			600	31.84	33.709	31.84	33.709	1.868	-	-	-	-	BLANKED OFF END PIPE FOR FUTURE EXTENSION.	10476.35	4942.02
5G-1	DOUBLE GRATED SIDE ENTRY PIT	600	900	600	900	300	32.36	300	32.36	33.833	1.477	EDCM602	-	EDCM609	-		10509.34	4926.02
5G-2	GRATED PIT	900	900	900	900		300	32.77	300	32.77	1.23	EDCM602	-	EDCM609	-	PROVIDE GRATED COVER TO CATCH FLOWS FROM TRAPPED LOWPOINT IN VERGE	10522.77	4930.77
5H-1	DOUBLE GRATED SIDE ENTRY PIT	600	900	600	900	300	31.46	300	31.41	33.119	1.707	EDCM602	-	EDCM609	-	CONSTRUCT INLET AS PART OF FUTURE WORKS. PROVIDE TEMPORARY INLET COVER.	10496.47	4860.27
5H-2	JUNCTION PIT	600	900	600	900	300	31.69	300	31.64	33.18	1.54	EDCM605	-	EDCM609	-		10499.13	4877.79
5H-3	JUNCTION PIT	600	900	600	900	225	32.71	300	32.64	33.871	1.234	EDCM605	-	EDCM609	-		10430.26	4888.31
5H-4	JUNCTION PIT	600	900	600	900		225	33.54	33.54	34.289	0.753	EDCM605	-	-	-		10356.62	4899.57
5I-1	JUNCTION PIT	600	900	600	1650	1200 300	28.38 28.80	1200	28.33	30.391	2.041	EDCM605	EDCM607	EDCM609	-		10206.14	4356.41
5I-2	DOUBLE GRATED SIDE ENTRY PIT	600	900	1500	900	1200	28.55	1200	28.50	30.82	2.325	EDCM602	EDCM607	EDCM609	-	INSTALL 300Ø PIPE BETWEEN GRATED SIDE INLET UNIT AND PIT	10210.24	4384.16
5I-3	DOUBLE GRATED SIDE ENTRY PIT	600	900	1500	900	1200	28.74	1200	28.74	31.067	2.324	EDCM602	EDCM607	EDCM609	-	INSTALL 300Ø PIPE BETWEEN GRATED SIDE INLET UNIT AND PIT	10217.72	4433.08
5I-4	DOUBLE GRATED SIDE ENTRY PIT	600	900	1500	900	1200	29.09	1200	29.03	31.364	2.334	EDCM602	EDCM607	EDCM609	-	INSTALL 300Ø PIPE BETWEEN GRATED SIDE INLET UNIT AND PIT	10226.68	4491.77
5I-5	DOUBLE GRATED SIDE ENTRY PIT	600	900	1500	900	1200	29.33	1200	29.33	31.621	2.291	EDCM602	EDCM607	EDCM609	-	INSTALL 300Ø PIPE BETWEEN GRATED SIDE INLET UNIT AND PIT	10235.61	4550.18
5I-6	GRATED SIDE ENTRY PIT	600	900	1500	900	1200	29.66											

PIT SCHEDULE																		
PIT NAME	PIT TYPE	LID		INTERNAL		INLET		OUTLET		F.S.L	DEPTH H (m)	PIT DETAIL	HAUNCH DETAIL	STEP IRONS	HEAVY DUTY	REMARKS	EASTING	NORTHING
		WIDTH (mm)	LENGTH (mm)	WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INVR/L (mm)	DIA	INVR/L (m)									
SI-13	DOUBLE GRATED SIDE ENTRY PIT	600	900	1500	900	1200	30.754	1200	30.704	32.982	2.278	EDCM 602	EDCM 607	EDCM 609	-	INSTALL 300Ø PIPE BETWEEN GRATED SIDE INLET UNIT AND PIT	10196.575	4782.889
SI-14	DOUBLE GRATED SIDE ENTRY PIT	600	900	1500	900	1200	31.014	1200	30.964	33.346	2.382	EDCM 602	EDCM 607	EDCM 609	-	INSTALL 300Ø PIPE BETWEEN GRATED SIDE INLET UNIT AND PIT	10204.493	4834.699
SI-15	DOUBLE GRATED SIDE ENTRY PIT	600	900	1500	900	1200	31.233	1200	31.183	33.633	2.45	EDCM 602	EDCM 607	EDCM 609	-	INSTALL 300Ø PIPE BETWEEN GRATED SIDE INLET UNIT AND PIT	10210.525	4876.58
SI-16	DOUBLE GRATED SIDE ENTRY PIT	600	900	1500	900	1200	31.412	1200	31.362	33.862	2.5	EDCM 602	EDCM 607	EDCM 609	-	INSTALL 300Ø PIPE BETWEEN GRATED SIDE INLET UNIT AND PIT	10211.542	4908.839
SI-17	DOUBLE GRATED SIDE ENTRY PIT	600	900	1650	900	1050	31.621	1200	31.546	34.143	2.597	EDCM 604	EDCM 607	EDCM 609	-	INSTALL 300Ø PIPE BETWEEN GRATED SIDE INLET UNIT AND PIT	10210.65	4942.215
						450	31.957											
SI-18	DOUBLE GRATED SIDE ENTRY PIT	600	900	1650	900	900	31.853	1050	31.778	34.235	2.458	EDCM 604	-	EDCM 609	-	INSTALL 300Ø PIPE BETWEEN GRATED SIDE INLET UNIT AND PIT	10195.609	4969.682
SI-19	DOUBLE TIERED FLOOD GRATES	885	890	1050	2090	900		900	32.167	34.437	2.27			EDCM 609	-	REFER TO PIT DETAILS TO SUIT SM2 KERB	10198.689	4997.658
SJ-1	DOUBLE GRATED SIDE ENTRY PIT	600	900	600	900	300	32.188	450	32.113	34.392	2.279	EDCM 604	-	EDCM 609	-	-	10181.568	4953.337
						450	32.759	300	32.333	34.582	2.249	EDCM 603	-	EDCM 609	-	-	10152.768	4950.053
SJ-2	GRATED SIDE ENTRY PIT	600	900	600	900	300	32.363	300	32.333	34.582	2.249	EDCM 603	-	EDCM 609	-	-	10152.768	4950.053
						300	32.894	300	32.333	34.582	2.249	EDCM 603	-	EDCM 609	-	-	10152.768	4950.053
SK-1	DOUBLE GRATED SIDE ENTRY PIT	600	900	600	900	375	32.884	450	32.809	34.374	1.565	EDCM 602	-	EDCM 609	-	-	10180.786	4963.272
SK-2	GRATED PIT	900	900	900	900			375	32.976	33.8	0.824	EDCM 605	-	-	-	PROVIDE 300MM CONCRETE APRON AROUND COVER	10182.544	4973.753
SL-1	END PIPE	-	-	-	-			675	30.82	32.966	2.146	-	-	-	-	BLANKED OFF END PIPE FOR FUTURE EXTENSION.	10187.788	4755.644
SM-1	DOUBLE GRATED SIDE ENTRY PIT	600	900	1050	900	675	30.533	675	30.483	32.718	2.236	EDCM 603	EDCM 607	EDCM 609	-	-	10184.344	4732.915
						375	30.533											
SM-2	GRATED SIDE ENTRY PIT	600	900	900	900	675	30.716	675	30.666	32.844	2.178	EDCM 603	EDCM 607	EDCM 609	-	-	10157.851	4732.972
						300	31.261											
SM-3	GRATED SIDE ENTRY PIT	600	900	900	900	675	30.896	675	30.846	33.041	2.195	EDCM 602	EDCM 607	EDCM 609	-	-	10119.404	4738.884
SM-4	GRATED SIDE ENTRY PIT	600	900	900	900	675	31.102	675	31.052	33.277	2.225	EDCM 603	EDCM 607	EDCM 609	-	-	10073.093	4746.014
						300	31.635											
SM-5	GRATED SIDE ENTRY PIT	600	900	900	900	675	31.296	675	31.246	33.495	2.249	EDCM 603	EDCM 607	EDCM 609	-	-	10030.204	4752.613
						300	31.852											
SM-6	GRATED SIDE ENTRY PIT	600	900	1050	1050	675	31.551	675	31.501	33.867	2.366	EDCM 603	EDCM 607	EDCM 609	-	-	9969.534	4762.424
SM-7	GRATED SIDE ENTRY PIT	600	900	1050	1050	675	31.719	675	31.669	33.913	2.244	EDCM 603	EDCM 607	EDCM 609	-	-	9963.274	4785.181
						300	31.857											
SM-8	DOUBLE GRATED SIDE ENTRY PIT	600	900	1050	1050	675	31.823	675	31.773	33.938	2.164	EDCM 604	EDCM 607	EDCM 609	-	-	9953.11	4788.875
						300	31.961											
SM-9	GRATED SIDE ENTRY PIT	600	900	900	900	525	32.058	675	32.008	34.111	2.103	EDCM 603	EDCM 607	EDCM 609	-	-	9960.532	4825.197
						450	32.058											
						300	32.196											
SN-1	JUNCTION PIT	600	900	600	900	300	32.489	300	32.439	34.112	1.673	EDCM 603	-	EDCM 609	-	-	9944.276	4772.034
SN-2	GRATED SIDE ENTRY PIT	600	900	600	900	300	32.614	300	32.614	34.105	1.491	EDCM 605	-	EDCM 609	-	-	9947.414	4759.975
SO-1	GRATED SIDE ENTRY PIT	600	900	600	900	300	32.771	300	32.771	34.006	1.234	EDCM 601	-	EDCM 609	-	-	9967.714	4808.4
SP-1	GRATED SIDE ENTRY PIT	600	900	600	900	300	31.97	300	31.97	33.459	1.488	EDCM 601	-	EDCM 609	-	-	10032.006	4764.275
SQ-1	DOUBLE GRATED SIDE ENTRY PIT	600	900	600	900	300	31.753	300	31.753	33.241	1.488	EDCM 602	-	EDCM 609	-	-	10074.616	4757.718
SR-1	GRATED SIDE ENTRY PIT	600	900	600	900	300	31.41	300	31.36	32.87	1.51	EDCM 603	-	EDCM 609	-	-	10157.376	4742.808
SR-2	DOUBLE GRATED SIDE ENTRY PIT	600	900	600	900	300	31.556	300	31.556	32.89	1.335	EDCM 602	-	EDCM 609	-	-	10143.437	4747.128
SS-1	DOUBLE GRATED SIDE ENTRY PIT	600	900	600	900	375	31.117	375	31.117	32.753	1.646	EDCM 604	-	EDCM 609	-	-	10180.102	4743.039
ST-1	JUNCTION PIT	600	900	600	900	375	31.656	375	31.606	33.038	1.38	EDCM 605	-	EDCM 609	-	-	10169.387	4703.222
ST-2	JUNCTION PIT	600	900	600	900	375	31.796	375	31.746	33.031	1.285	EDCM 605	-	EDCM 609	-	-	10171.103	4695.99
ST-3	JUNCTION PIT	600	900	600	900	375	31.857	375	31.807	33.044	1.237	EDCM 605	-	EDCM 609	-	-	10169.387	4703.222
ST-4	JUNCTION PIT	600	900	600	900	375	32.232	375	32.182	33.374	1.192	EDCM 605	-	EDCM 609	-	-	10171.103	4695.99
ST-5	JUNCTION PIT	600	900	600	900	300	32.607	375	32.532	33.639	1.108	EDCM 605	-	EDCM 609	-	-	10168.759	4695.717
ST-6	JUNCTION PIT	600	900	600	900	225	32.972	300	32.897	33.858	0.961	EDCM 605	-	-	-	-	10104.627	4705.648
ST-7	JUNCTION PIT	600	900	600	900	225	32.972	300	32.897	33.858	0.961	EDCM 605	-	-	-	-	10045.325	4714.773
ST-8	JUNCTION PIT	600	900	600	900	225	33.044	225	32.994	33.868	0.874	EDCM 605	-	-	-	-	9987.999	4723.594
ST-9	JUNCTION PIT	600	900	600	900	225	33.164	225	33.164	33.916	0.752	EDCM 605	-	-	-	-	9986.175	4724.887
SU-1	DOUBLE GRATED SIDE ENTRY PIT	600	900	600	900	450	32.53	450	32.53	34.222	2.34	EDCM 604	-	EDCM 609	-	-	9988	4736.747
SV-1	GRATED SIDE ENTRY PIT	600	900	1200	900	525	30.77	525	30.72	32.681	1.96	EDCM 603	EDCM 607	EDCM 609	-	HAUNCH UNDER KERB	10228.213	4973.861
						300	30.833											
SV-2	DOUBLE GRATED SIDE ENTRY PIT	600	900	900	900	525	31.098	525	31.048	32.752	1.704	EDCM 604	EDCM 607	EDCM 609	-	HAUNCH UNDER KERB	10215.463	4751.939
SV-3	JUNCTION PIT	600	900	900	900	525	31.329	525	31.279	32.903	1.625	EDCM 605	EDCM 607	EDCM 609	-	HAUNCH UNDER KERB	10251.605	4750.115
SV-4	GRATED SIDE ENTRY PIT	600	900	900	900	450	31.476	525	31.401	33.111	1.71	EDCM 603	EDCM 607	EDCM 609	-	HAUNCH UNDER KERB	10260.87	4756.792
						300	31.451											
SV-5	GRATED SIDE ENTRY PIT	600	900	600	900													



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P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					

Designed	N.SMOLENAARS
Date	28.08.25
Drawn	L.SUTHERLAND
Checked	C.DAWSON
Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0012536
Date	28.08.25
PS Number	PS931746C

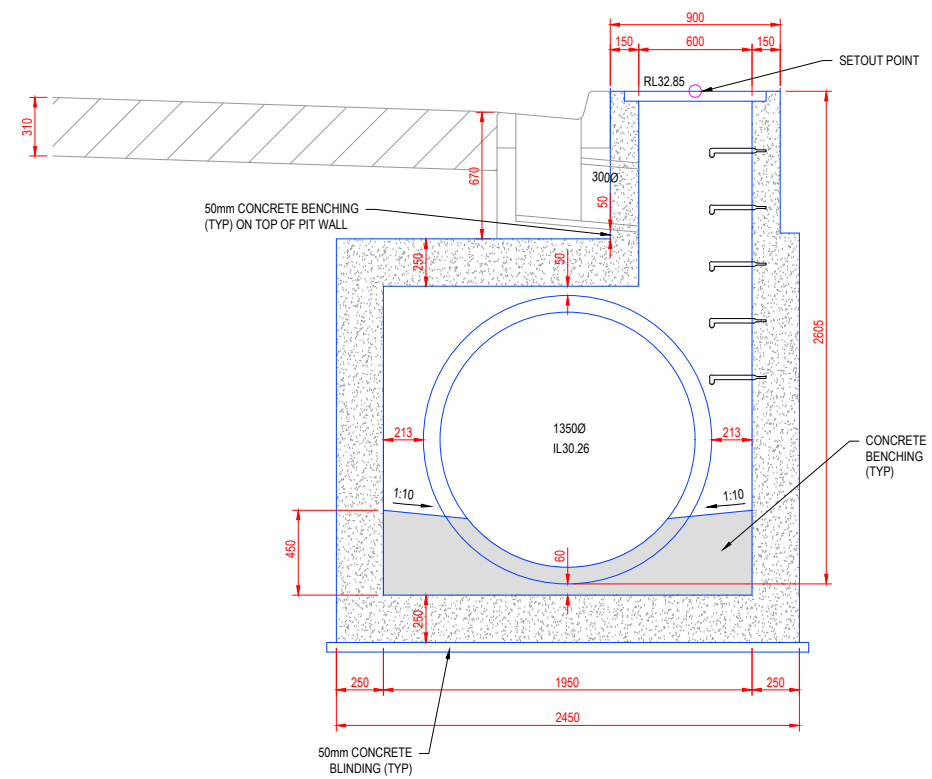
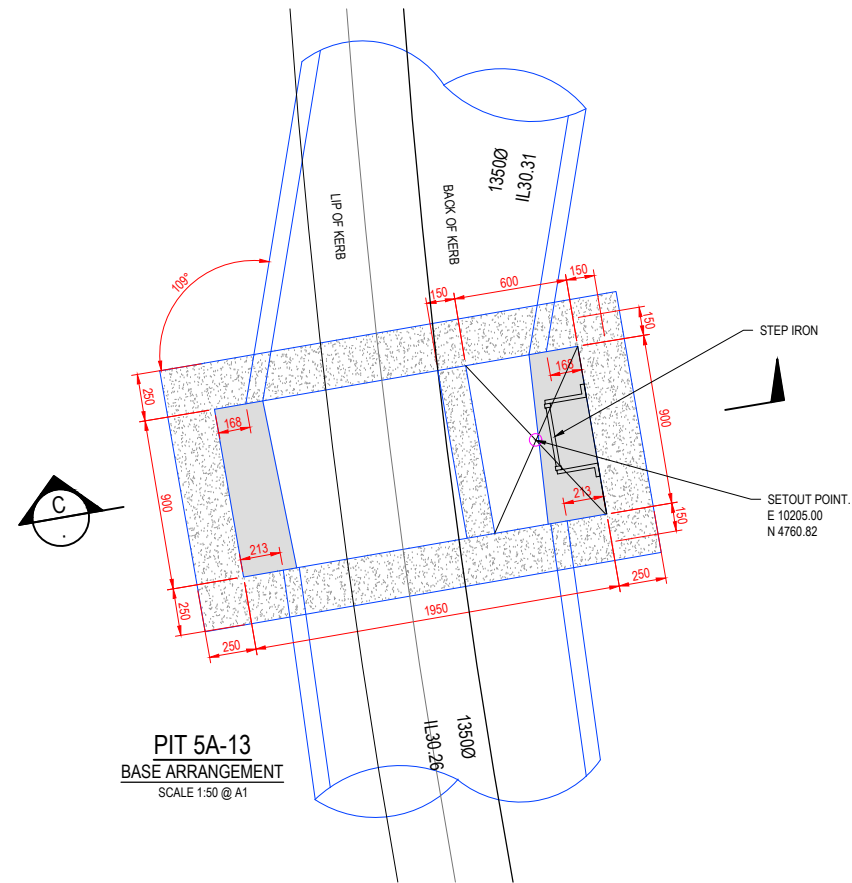
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Malvern VIC 3144
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Project Details
MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
PIT DETAILS
(SHEET 1 OF 4)

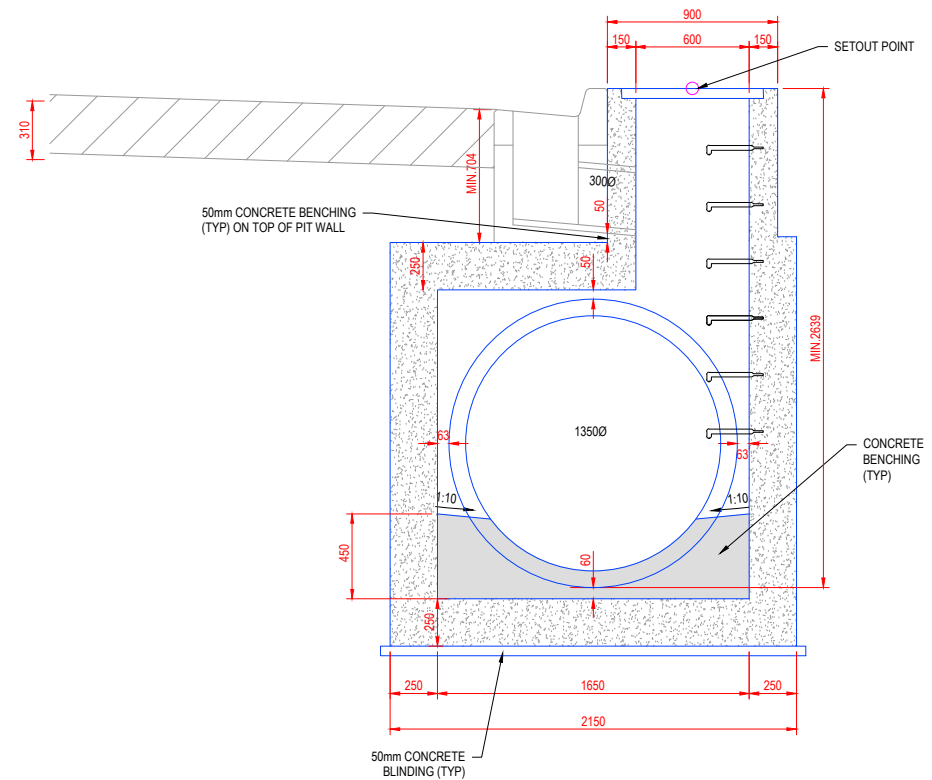
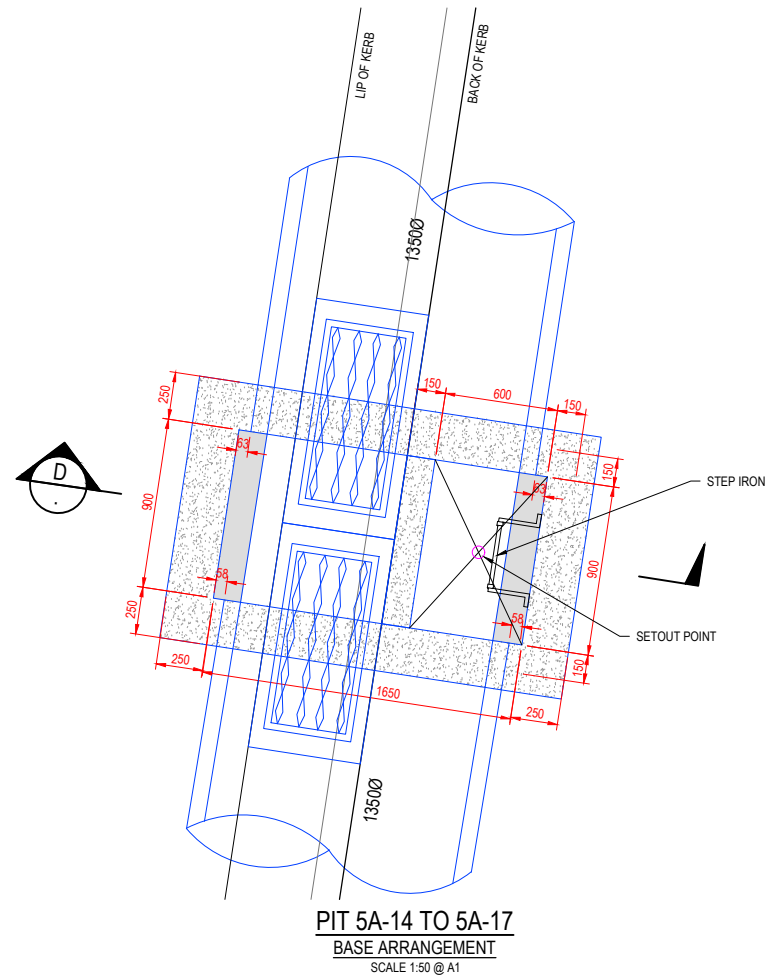
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Project Ref	Stage No	Drawing No	Rev
1701814	05	416	P2



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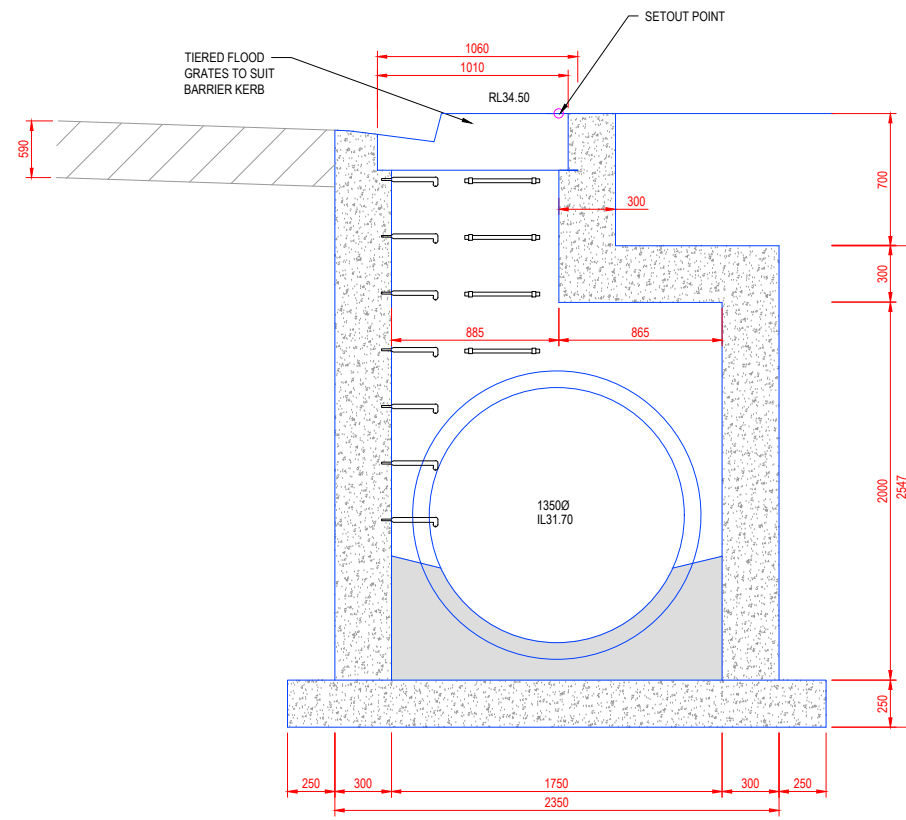
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MAPLE GROVE ESTATE
STAGE 05
CARDINIA SHIRE COUNCIL
Drawing Title
PIT DETAILS
(SHEET 2 OF 4)

Sheet 74 of 76

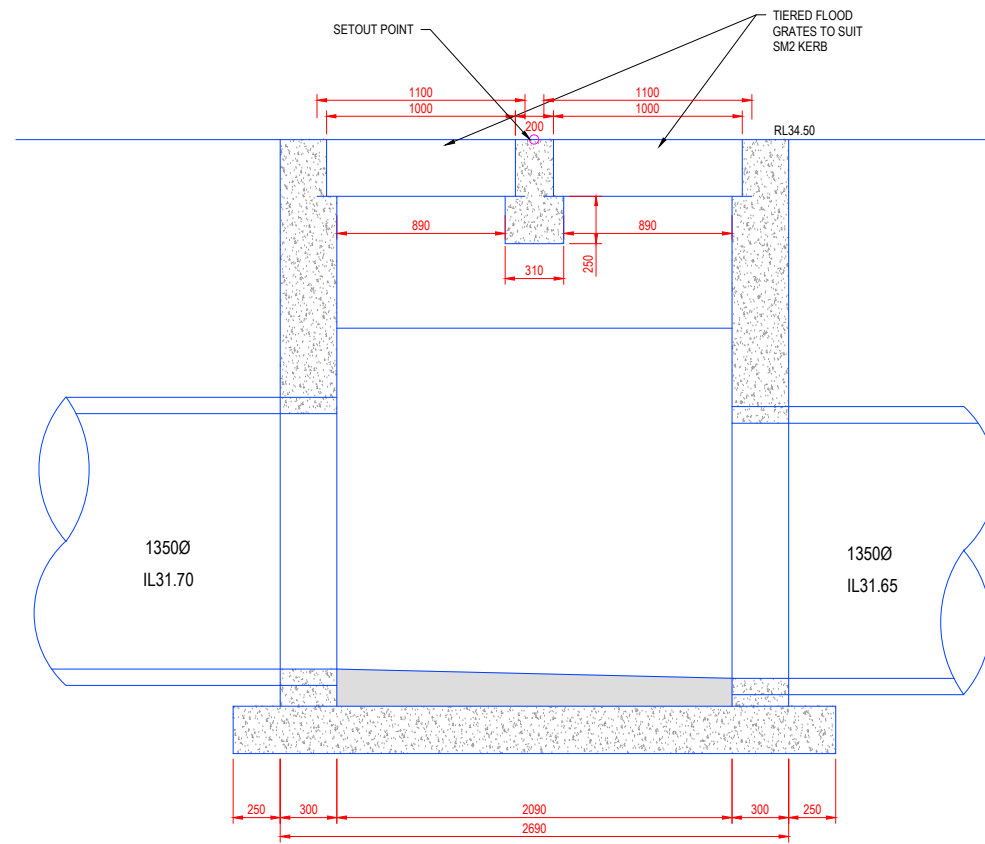
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Project Ref	Stage No	Drawing No	Rev
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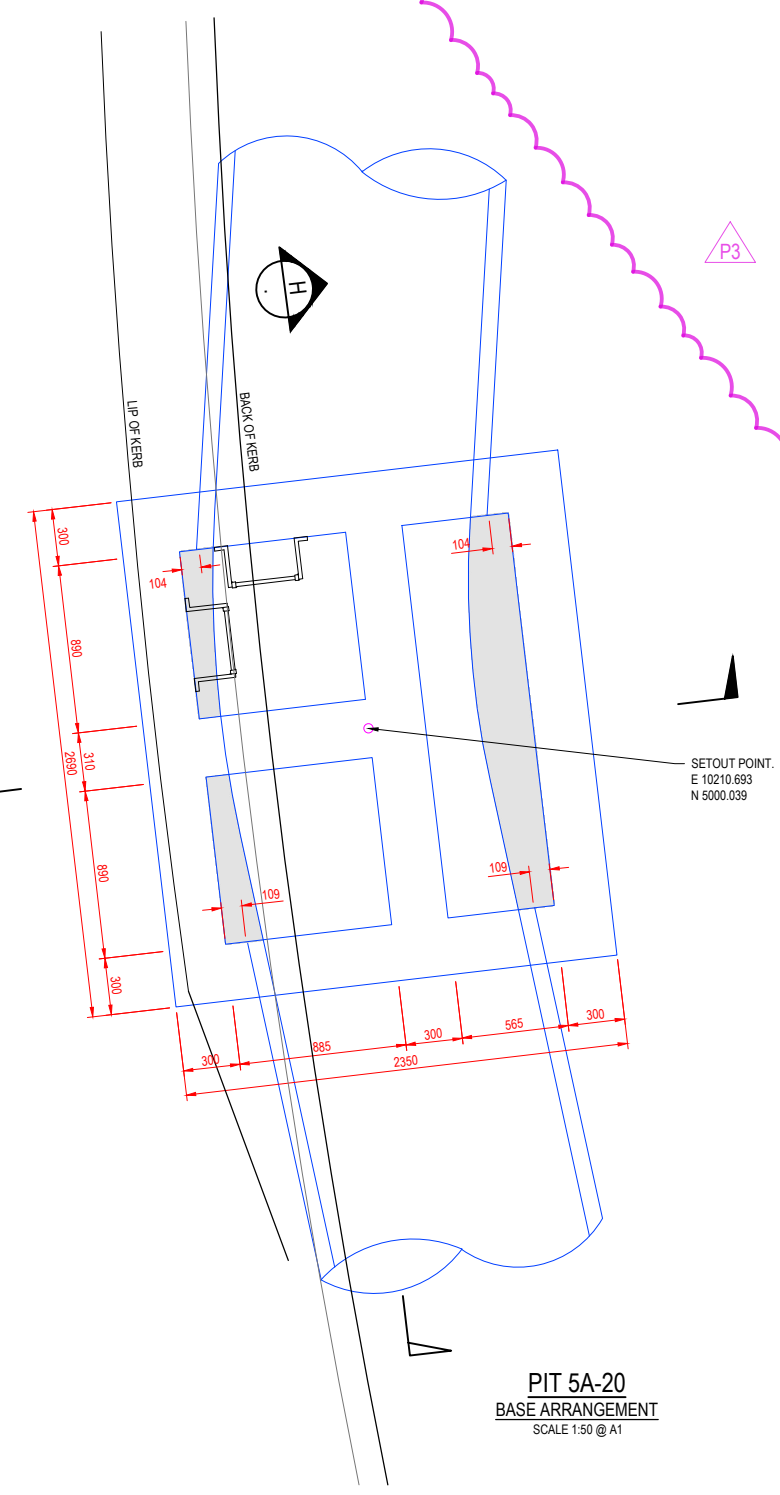
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PIT 5A-20
SECTION H
SCALE 1:50 @ A1



PIT 5A-20
SECTION G
SCALE 1:50 @ A1



PIT 5A-20
BASE ARRANGEMENT
SCALE 1:50 @ A1

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P2	UPDATED AS PER COUNCIL COMMENTS	24.09.25	NS	CD					
P1	ISSUED FOR INFORMATION	28.08.25	NS	CD					

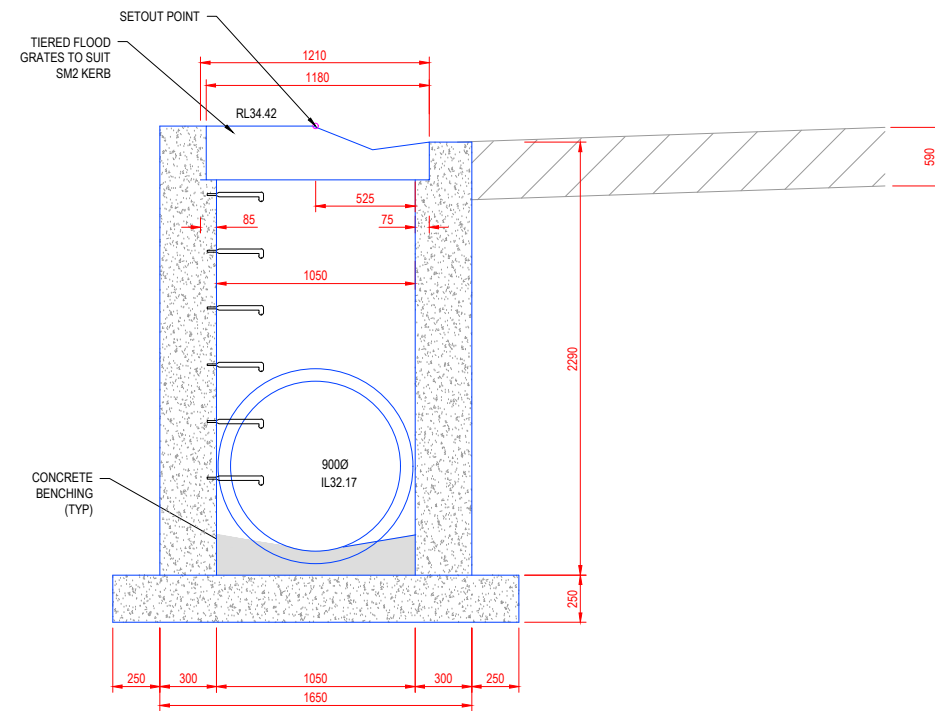
Designed	N.SMOLENAARS
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Date	28.08.25
Approved	C.DAWSON
Reg. No.	PE0012536
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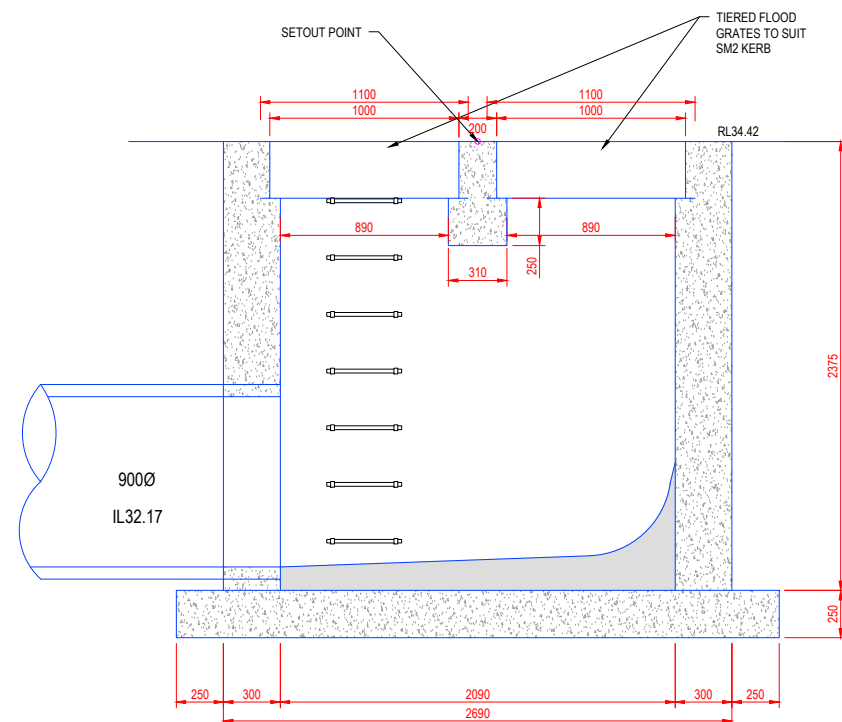
Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	PIT DETAILS (SHEET 3 OF 4)

Sheet 75 of 76			
Scale			
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Project Ref	Stage No	Drawing No	Rev
1701814	05	418	P3

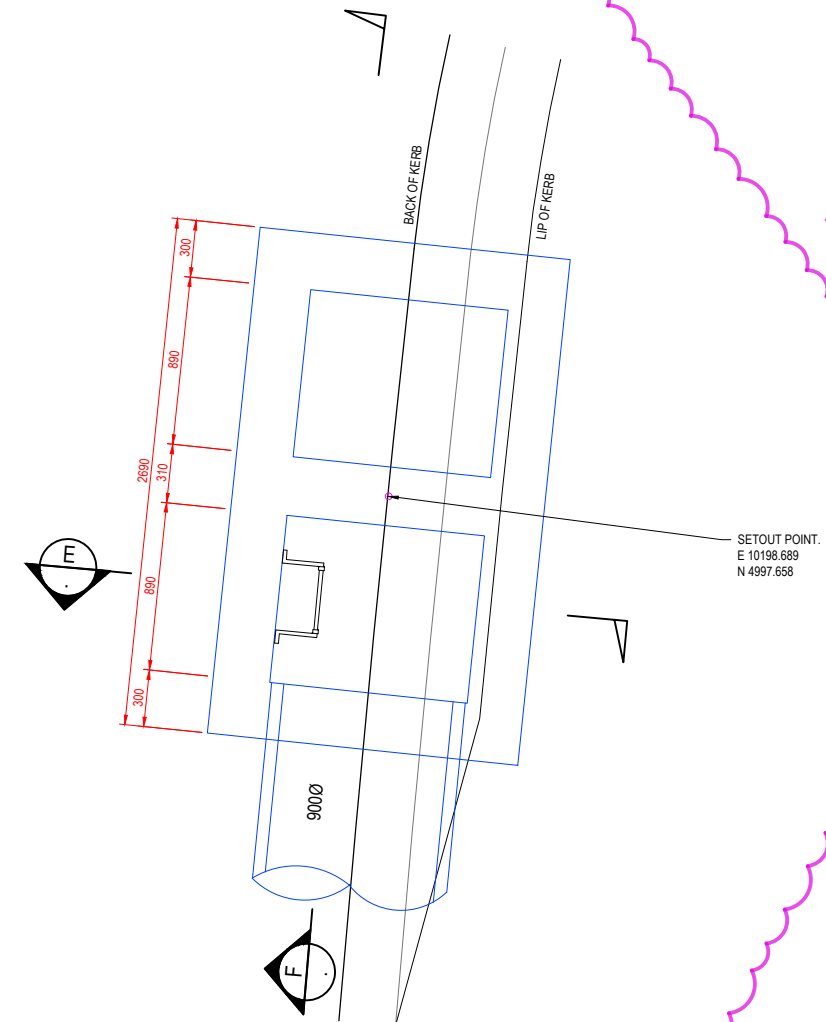
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PIT 5I-19
SECTION E
SCALE 1:50 @ A1



PIT 5I-19
SECTION F
SCALE 1:50 @ A1



PIT 5I-19
BASE ARRANGEMENT
SCALE 1:50 @ A1

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Drawn	L.SUTHERLAND
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Reg. No.	PE0012526
Date	28.08.25
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Project Details	MAPLE GROVE ESTATE STAGE 05 CARDINIA SHIRE COUNCIL
Drawing Title	PIT DETAILS (SHEET 4 OF 4)

Sheet 76 of 76

Scale

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Project Ref	Stage No	Drawing No	Rev
1701814	05	419	P3

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