

SMITHS LANE - STAGE 28

MIRVAC

CITY OF CASEY

City of Casey

Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
 Date: **5/8/2024**

Approval subject to below conditions:

- Works are to be carried out in accordance with an approved Environmental Management Plan (EMP) and Traffic Management Plan (TMP).
- Relevant service authorities notification and approval is obtained.
- Certification of all retaining walls to be undertaken and provided as required.
- All agreements and consent with neighbouring properties must be undertaken prior to works commencing.
- All works to be in accordance with the recommendation of the Hydrogeological report.
- Before starting any work, the contractor must contact Council's Construction Supervision Team on 9705 5200 to arrange Council supervision of the works.

CONSTRUCTION NOTES

SITE MANAGEMENT

- A1. Prior to commencement of works on site, the contractor must ensure that all matters relating to the Occupational Health & Safety Act 2004, including all relevant regulations, have been addressed. In particular, the required notifications must be conveyed to the Victorian Workcover Authority - Health & Safety division with respect to trenching operations. Details of the 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 City of Casey 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 72514/203) along extent of outfall drain where the drain is greater than 1.5m in depth & side slopes are steeper than 1 in 3. Safety fence to remain until permanent underground drainage is installed.
- A6. Contractor to remove existing irrigation & drainage pipes & pits encountered on site. Trenches to be backfilled in accordance with notes C2 & C3
- A7. Fourteen days prior to the start of development, a site specific Environmental Management Plan (site EMP) must be submitted and approved by responsible authority. All works must be undertaken in accordance with the approved site EMP to the satisfaction of the responsible authority.

GENERAL

- B1. All works to be carried out in accordance with AS2124-1992 general conditions of contract & the City of Casey current specification & standard drawings & to the satisfaction of the City of Casey 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 (2007) & undertake safety precautions in trenching operations in accordance with Workcover's code of practice (1988).
- B4. Lots to be graded (1 in 150 min slope) & left clean to the satisfaction of the engineer. Finished levels to be compatible with lots adjoining this stage.
- B5. On completion the contractor is responsible for the removal of all rubbish & spoil from site. No surplus trees, vegetation or other material is to be burnt on site.
- B6. Reserves to be free draining & to be left in a condition satisfactory to the City of Casey 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.
- B10. Prior to works around overhead and underground electricity assets, A No Go Zones (NGZ) request must be made to the relative authority. The conditions of the assessment must be done to AusNet's satisfaction.
- B11. All concrete and construction material must comply with AS 2159-2009 and AS 3600-2009
- B12. As-constructed plans and electronic asset information in D-Spec and R-Spec format must be submitted to Council prior to practical completion.
- B13. A traffic management plan (TMP) must be submitted to, and approved by Council prior to the commencement of any works on site and all traffic management must be carried out in accordance with TMP.

ROADWORKS

- C1. 100a agricultural pipe drains (MPA standard drawing EDCM 202) to be placed behind all kerb & channel & buffer pitchers & 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 conduct by Tonkin & Taylor, 1007259.1.R1. Level 1 inspection and testing to be carried out in accordance with AS3798-2007 Section 8.2. A fill report must be submitted to the Consultant, showing from a NATA registered soil testing laboratory.
- C3. Importing Fill:- All imported fill must be tested by a NATA approved laboratory to ensure it is suitable for use on site, & any contaminants are within accepted levels. Under no circumstances should fill material enter or leave the site without the permission of the supervising engineer & Council works supervisor, prior to it being appropriately tested. All vehicles transporting fill material to & from the site must have appropriate measures in place to ensure that material does not get onto roads & into stormwater systems & natural waterways.

- C4. Batters to be 1 in 5 for fill & 1 in 3 for cut unless noted otherwise.
- C5. Cut batters are to be grassed & mulched with a mixture of chopped grass, straw & bitumen emulsion.
- C6. Where cut batters exceed 700mm an additional 300mm berm shall be formed behind footpath.
- C7. Access ramps are to be constructed where cut batters exceed 1.0m. They are to be graded 1 in 10 for the first 2.5m from the back of path & then at a maximum of 1 in 4 to natural surface.
- C8. The water conduit offset from the lot boundary is given on the water reticulation plan. The contractor must construct conduits to accord with the given offset & ensure that the 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 City of Casey 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 (TGSi) are to be installed at all tram crossings & pedestrian cross points in accordance with AS1428.4 : 2002 & MPA standard drawing EDCM 403.
- C20. If any existing substandard filling is encountered on the site it must be removed and replaced with approved fill material properly compacted to Council requirements. A geo-technical report must be submitted showing details of depth, type of material, and density of the fill areas concerned.
- C21. Temporary crushed rock turn around areas must be maintained in a safe and sound condition so that vehicles are able to use them at all times.
- C22. All Council reserves must be provided with connections for drainage, sewer, electricity and other services.

DRAINAGE

- D1. Drainage & pits to be set out from offsets shown rather than from centreline pipe chainages. Centreline of pits at TP's to be offset 1.00m.
- D2. Terra Firma or fibreglass type pit lids are required for all drainage pits & all grates for pits are to be Class D, to comply with AS3996 unless otherwise shown. All drainage works are to be constructed to council specifications.
- D3. All pipes up to and including 750mm in diameter shall be rubber ring jointed (RRJ). Pipes above this size may be flush jointed with external sealing bands. For pipes greater than 900mm and changes in direction between 2 connecting pipes exceeding 10° construct segmented curves using splayed pipes with bandage joints, having deflections within the manufacturer's specification.
- D4. All pipes to be Class "2" R.C. rubber ring joint 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.
- D8. A CCTV report must be provided for all drainage lines prior to issue of practical completion.

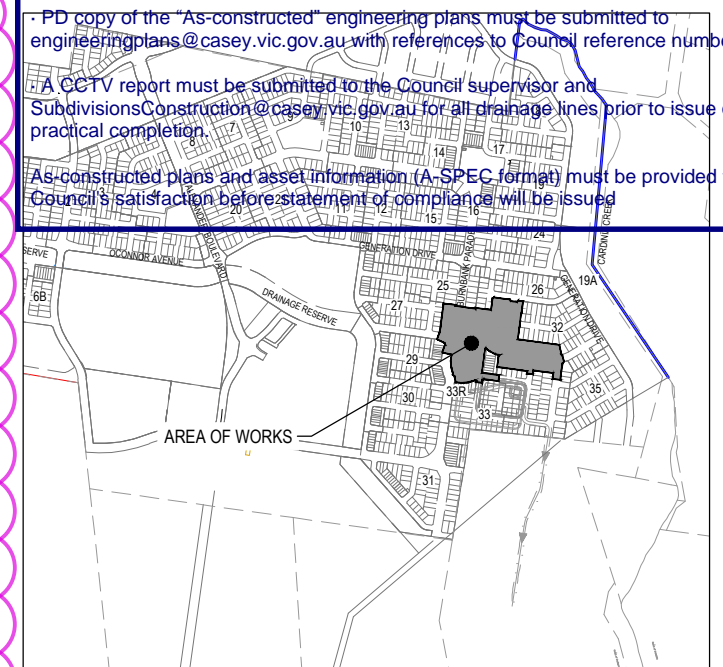
PAVEMENT

- E1. Modification of the pavement requires approval by the City of Casey works supervisor.
- E2. Pavement composition to include recycled materials approved by City of Casey works supervisor.

DRAWING INDEX		
DRAWING No.	TITLE	REVISION
1101438-28-001	COVER SHEET	E
1101438-28-002	TYPICAL ROAD CROSS SECTIONS (SHEET 1 OF 2)	B
1101438-28-003	TYPICAL ROAD CROSS SECTIONS (SHEET 2 OF 2) PAVEMENT MAKEUP & GENERAL DETAILS	B
1101438-28-004	GENERAL DETAILS	B
1101438-28-010	LAYOUT PLAN (SHEET 1 OF 2)	E
1101438-28-011	LAYOUT PLAN (SHEET 2 OF 2)	D
1101438-28-100	ROAD LONGITUDINAL SECTIONS BURNBANK PARADE	B
1101438-28-101	ROAD LONGITUDINAL SECTIONS DROMORE AVENUE & BLOOM STREET	B
1101438-28-102	ROAD LONGITUDINAL SECTIONS MONOCOT AVENUE	B
1101438-28-103	ROAD LONGITUDINAL SECTIONS ATWELL ROAD & MODESTA AVENUE	B
1101438-28-104	ROAD LONGITUDINAL SECTIONS CARDWELL ROAD & RAFFERTY DRIVE	B
1101438-28-105	ROAD LONGITUDINAL SECTIONS ZALE ROAD & HALISEND STREET	B
1101438-28-200	ROAD CROSS SECTIONS BURNBANK PARADE (SHEET 1 OF 2)	B
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1101438-28-202	ROAD CROSS SECTIONS DROMORE AVENUE & BLOOM STREET	B
1101438-28-203	ROAD CROSS SECTIONS MONOCOT AVENUE (SHEET 1 OF 2)	B
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1101438-28-206	ROAD CROSS SECTIONS MODESTA AVENUE	B
1101438-28-207	ROAD CROSS SECTIONS CARDWELL ROAD	B
1101438-28-208	ROAD CROSS SECTIONS RAFFERTY DRIVE	B
1101438-28-209	ROAD CROSS SECTIONS ZALE ROAD & HALISEND STREET	B
1101438-28-300	INTERSECTION DETAILS (SHEET 1 OF 4)	B
1101438-28-301	INTERSECTION DETAILS (SHEET 2 OF 4)	B
1101438-28-302	INTERSECTION DETAILS (SHEET 3 OF 4)	B
1101438-28-303	INTERSECTION DETAILS (SHEET 4 OF 4)	B
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1101438-28-400	DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 6)	B
1101438-28-401	DRAINAGE LONGITUDINAL SECTIONS (SHEET 2 OF 6)	B
1101438-28-402	DRAINAGE LONGITUDINAL SECTIONS (SHEET 3 OF 6)	B
1101438-28-403	DRAINAGE LONGITUDINAL SECTIONS (SHEET 4 OF 6)	B
1101438-28-404	DRAINAGE LONGITUDINAL SECTIONS (SHEET 5 OF 6)	B
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1101438-28-450	TEMPORARY SWALE LONGITUDINAL SECTIONS (SHEET 1 OF 2) & DETAILS	B
1101438-28-451	TEMPORARY SWALE LONGITUDINAL SECTIONS (SHEET 2 OF 2)	B
1101438-28-460	PASSIVE IRRIGATION BURNBANK PARADE	B
1101438-28-461	PASSIVE IRRIGATION MONOCOT AVENUE	A
1101438-28-462	PASSIVE IRRIGATION ROAD RUNOFF DETAIL	B

TBM SCHEDULE

TBM	EASTING	NORTHING	LEVEL	DESCRIPTION
MV203	9242.85	81293.56	20.575	RIVET
MV204	9219.21	81132.84	19.840	RIVET
MV205	9196.82	81016.79	19.420	RIVET



SITE PLAN

NOT TO SCALE
 MELWAY REF: 135K5

SURVEY ORIGIN

PM 77
 SMITHS LANE
 RL 26.472
 MGA Coords MGA Truncated
 E 355437.418 E 5437.424
 N 5782726.650 N 82726.644

COORDINATES ARE ON A LOCAL PLANE DATUM BASED UPON MGA ZONE 55 BEARINGS AND TRUNCATED COORDINATES AT PM77. THE SMES AHD VALUE FOR PM67 (RL27.221) HAS BEEN ADOPTED FOR OUR AHD LEVEL DATUM.

FOR CONVERSION TO MGA94 ZONE 55 COORDINATES. FOR PLANE SHIFT ADD +349,999.994 TO EASTINGS AND +5,700,000.006 TO NORTHINGS. FOR SCALE FACTOR MULTIPLY BY 0.999846 AT PM77

FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
E	DRAWING 461 ADDED, 28F & 28S REPLACED WITH REGULAR LOTS	21.05.24	L.M.	S.Y.					
D	SHEETS 010, 011, 405&406 UPDATED	15.03.24	B.P.	S.Y.					
C	SHEETS 010,011 & 350 UPDATED	01.03.24	B.P.	S.Y.					
B	SHEETS 010, 011, 400 & 406 AMENDED	19.01.24	B.P.	S.Y.					
A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.					



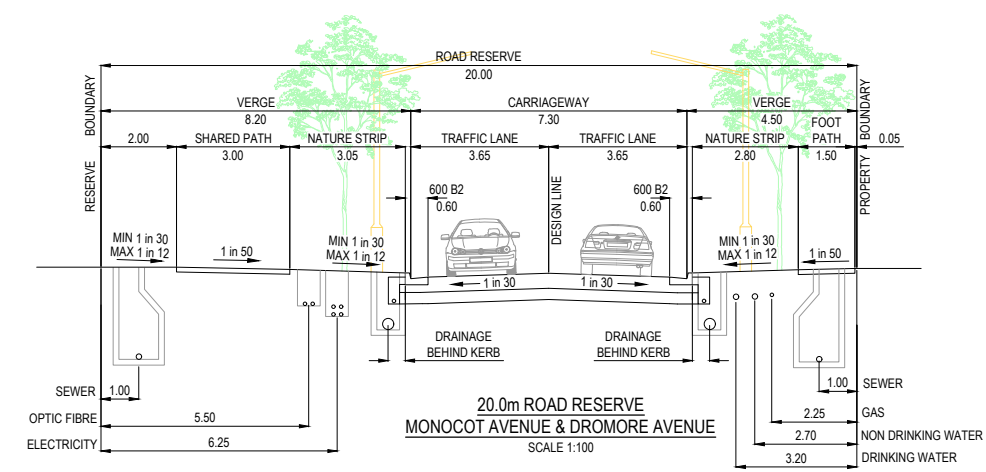
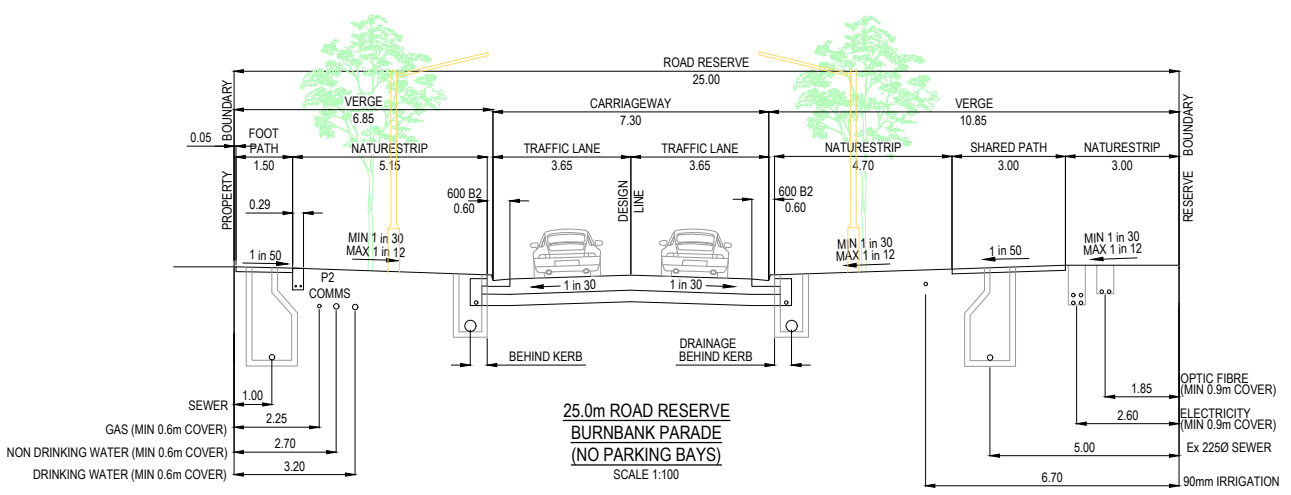
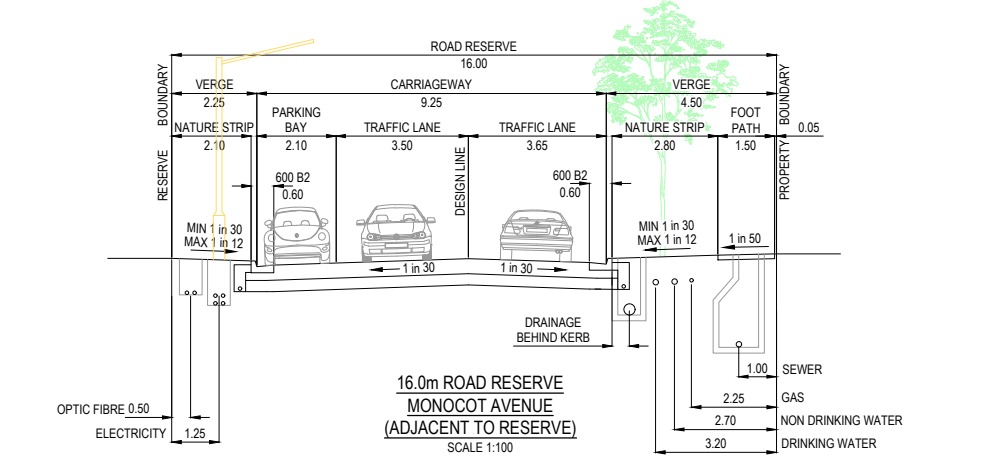
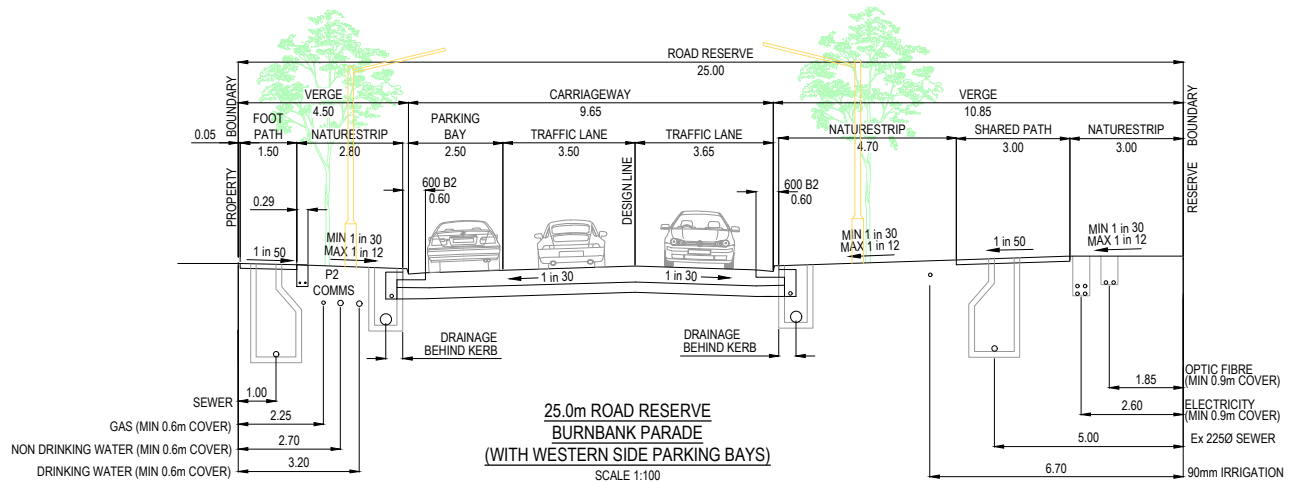
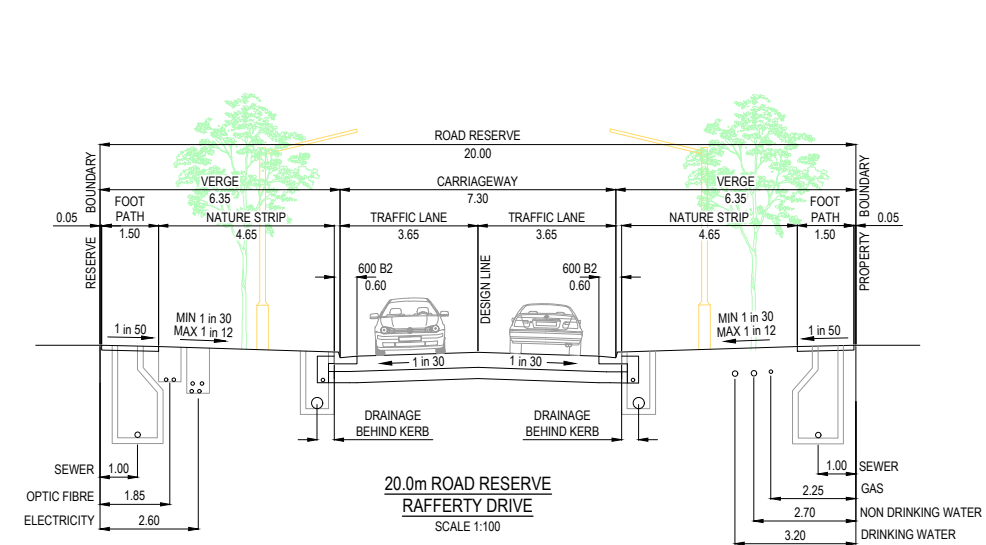
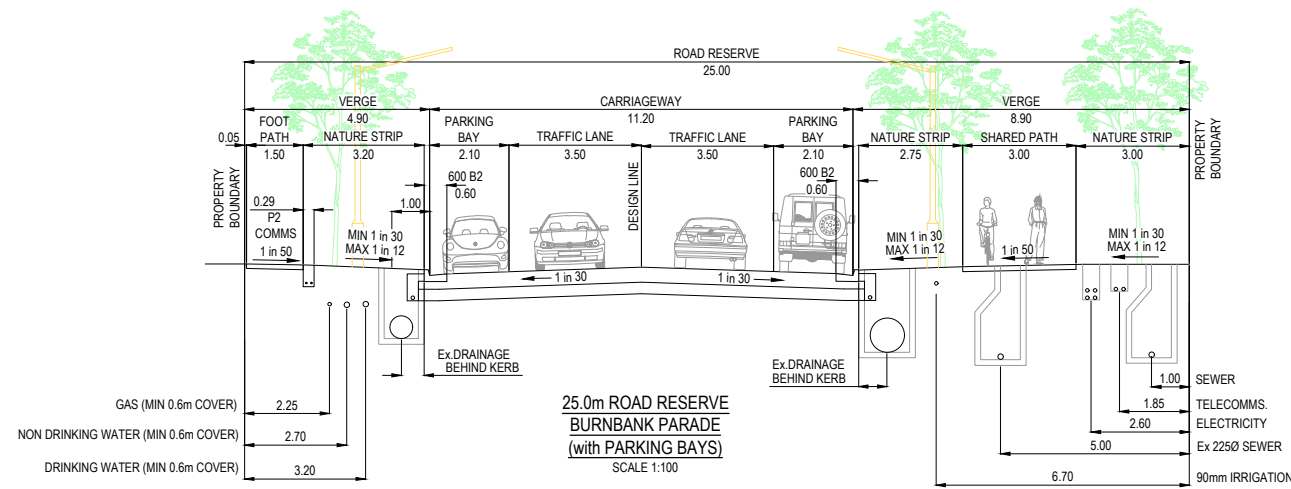
Designed	B.PAPPALARDO
Date	19.10.2023
Drawn	M.F. JAURIGUE
Checked	L.MURRAY
Date	24.11.2023
Approved	S.YOUNG
Reg. No.	PE0005608
Date	27.11.2023
PS Number	PS919014R

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Project Details	SMITHS LANE STAGE 28 CITY OF CASEY
Drawing Title	COVER SHEET
Project Ref	1101438
Stage No	28
Drawing No	001
Rev	E

Sheet **01 of 39**

Scale **NOT TO SCALE**



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A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.					



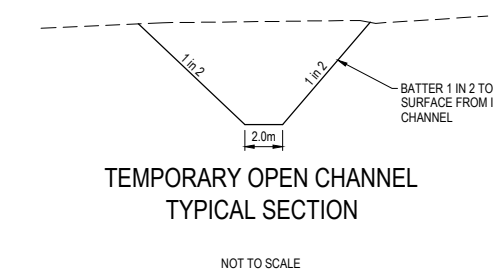
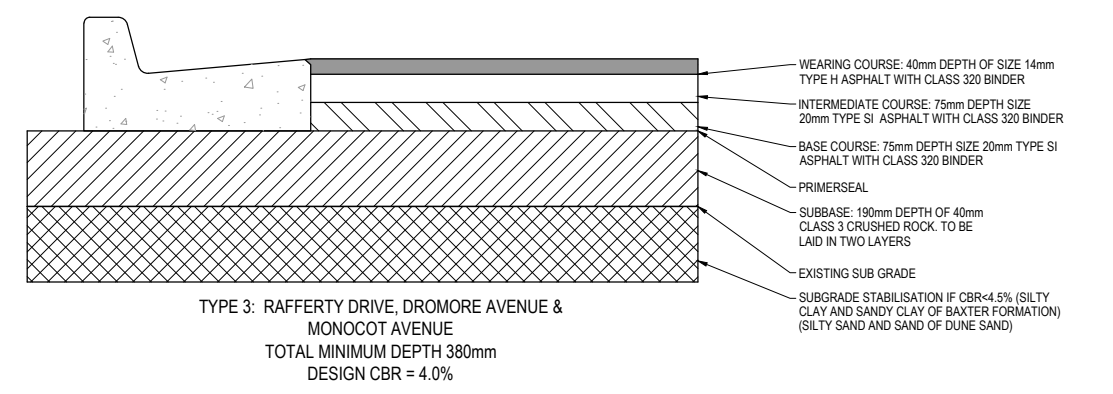
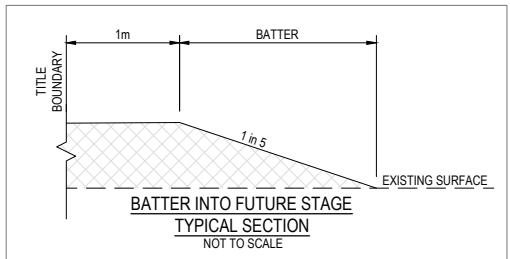
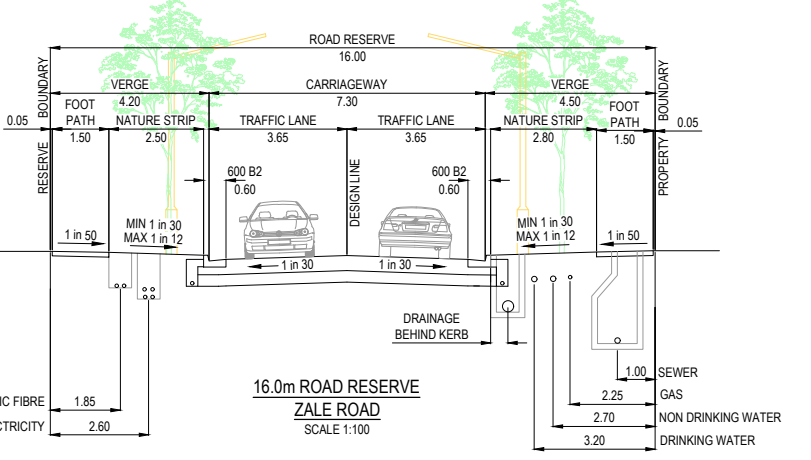
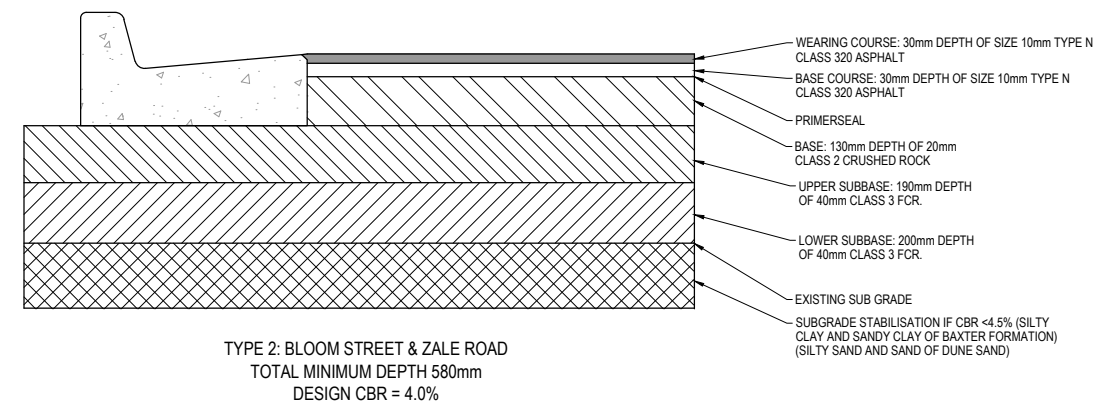
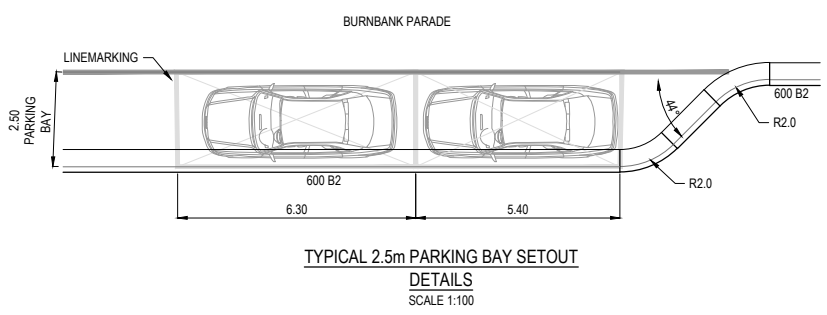
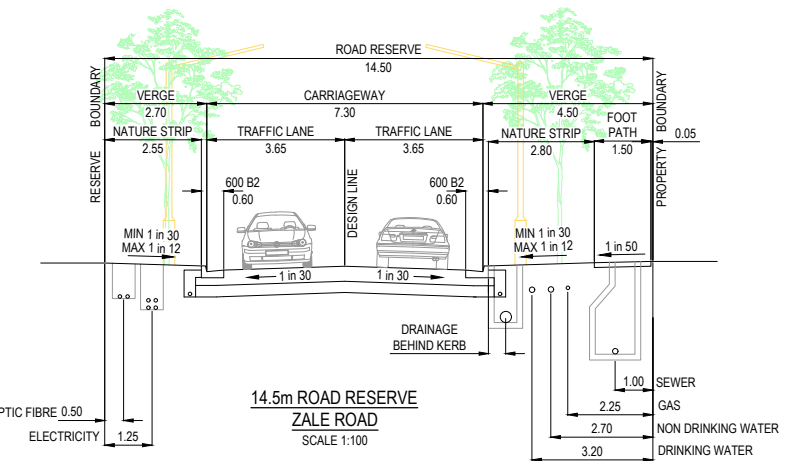
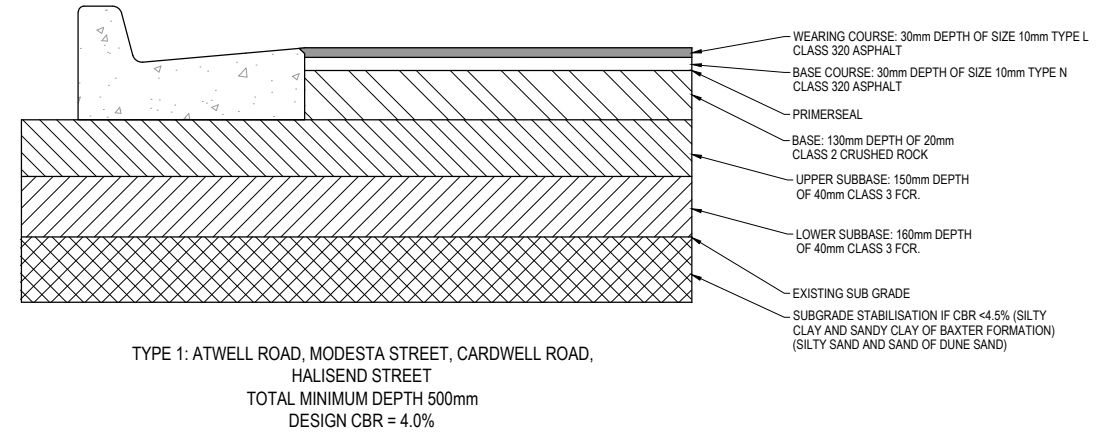
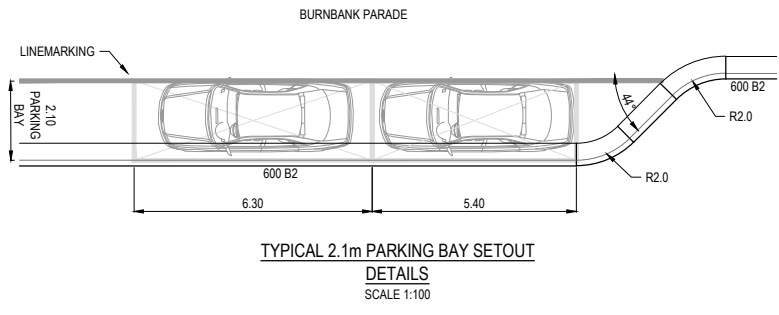
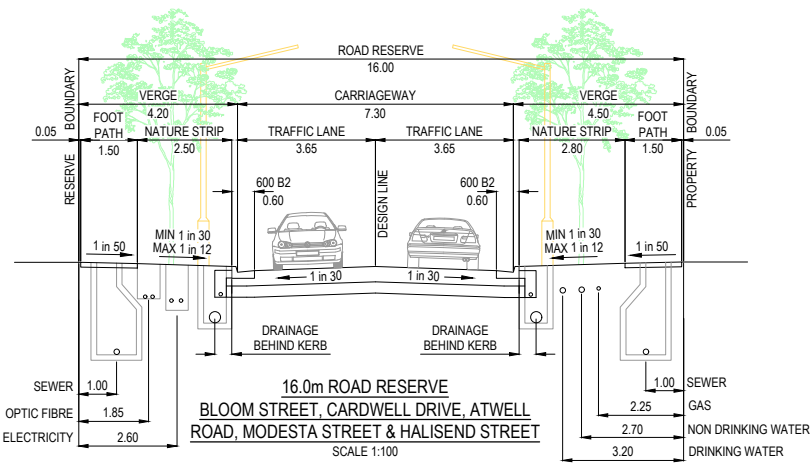
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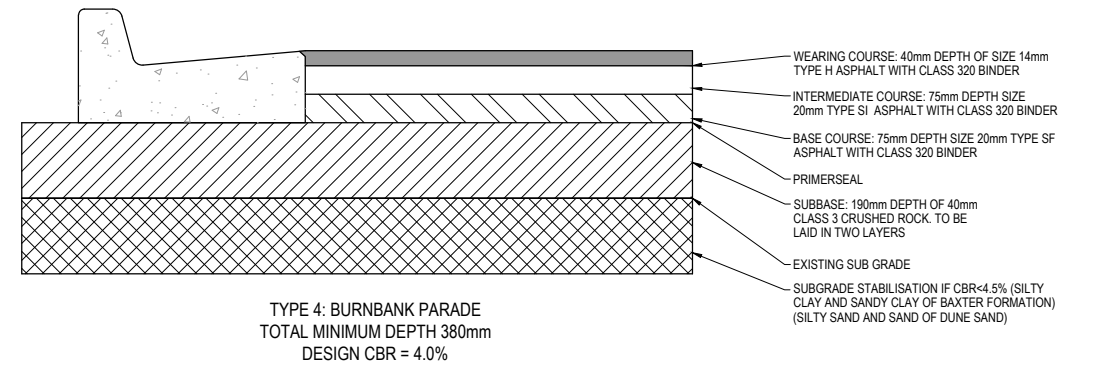
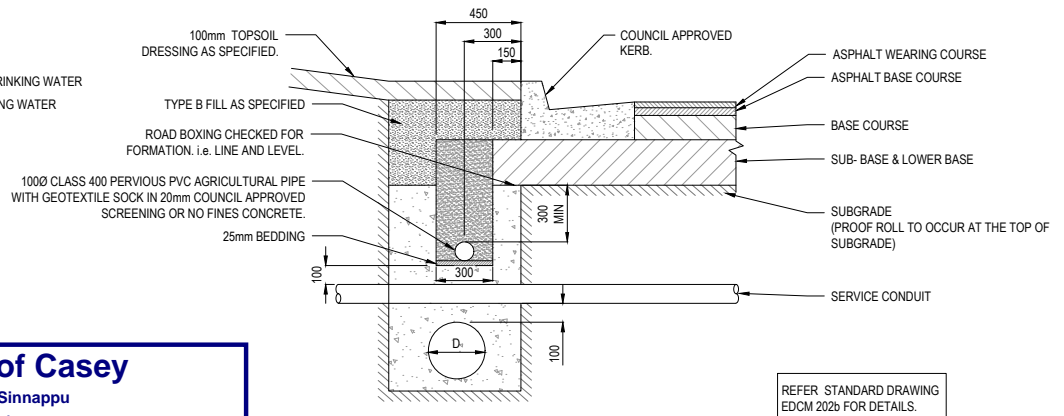
Project Details	SMITHS LANE STAGE 28 CITY OF CASEY
Drawing Title	TYPICAL ROAD CROSS SECTIONS (SHEET 1 OF 2)

Sheet	02 of 39
Scale	AS SHOWN
Project Ref	1101438
Stage No	28
Drawing No	002
Rev	B

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B	NUMBER OF PAGES AMENDED	21.05.24	L.M.	S.Y.	
A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.	
REV	DESCRIPTION	DATE	DRN.	APP.	REV



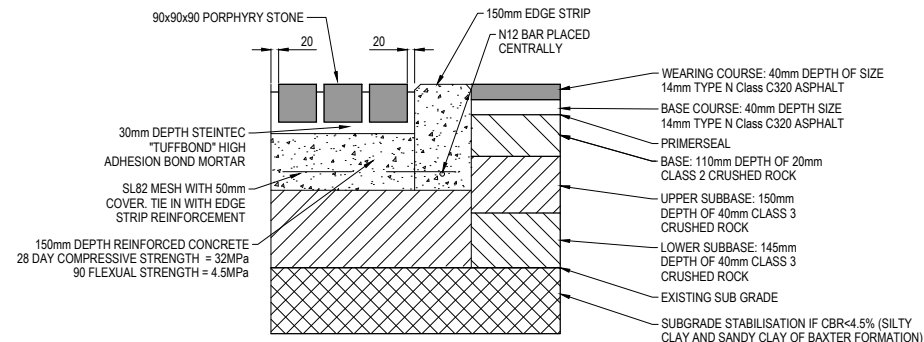
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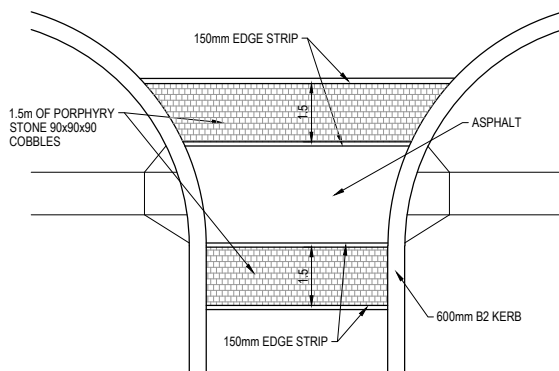
Project Details	SMITHS LANE STAGE 28 CITY OF CASEY
Drawing Title	TYPICAL ROAD CROSS SECTIONS (SHEET 2 OF 2) PAVEMENT MAKEUP & GENERAL DETAILS

Sheet	03 of 39
Scale	AS SHOWN
Project Ref	1101438
Stage No	28
Drawing No	003
Rev	B

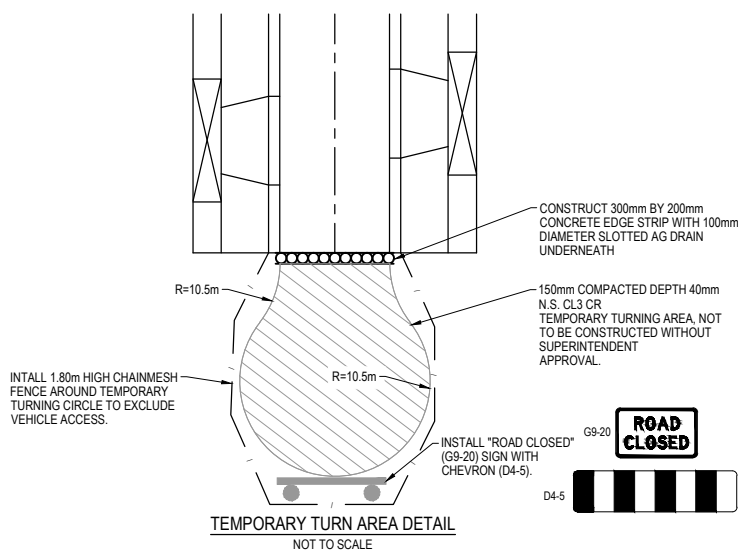
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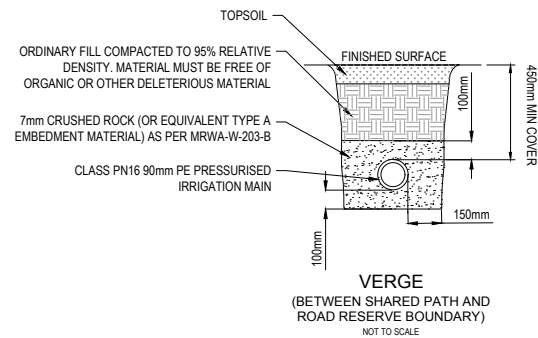
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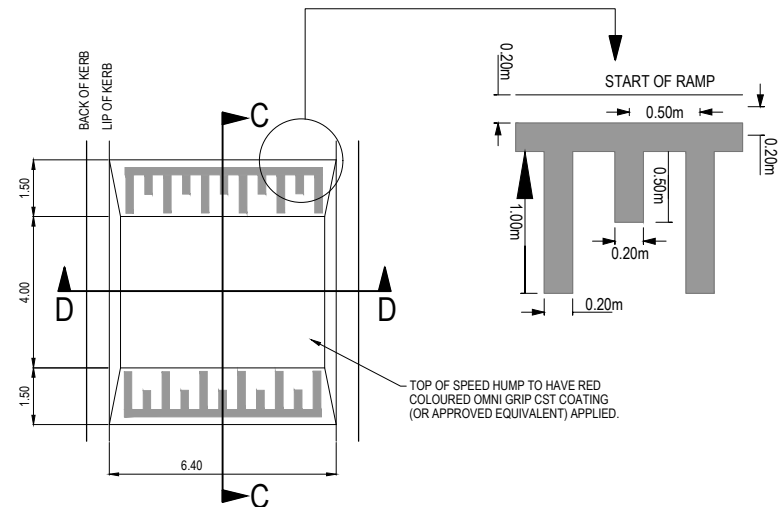
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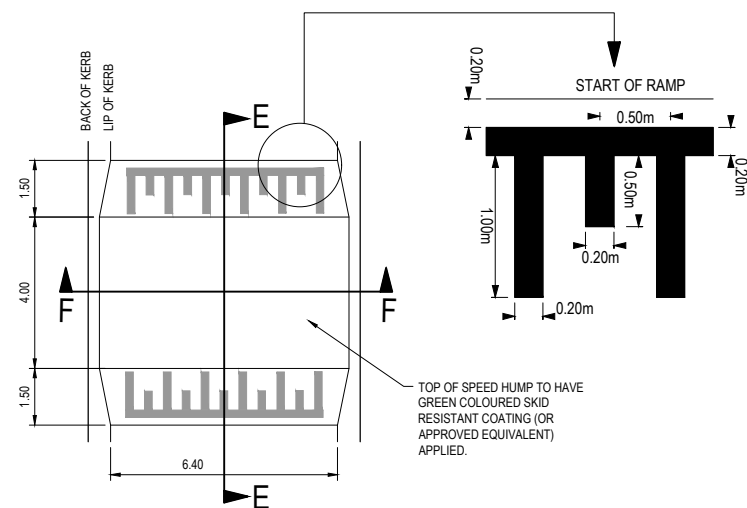
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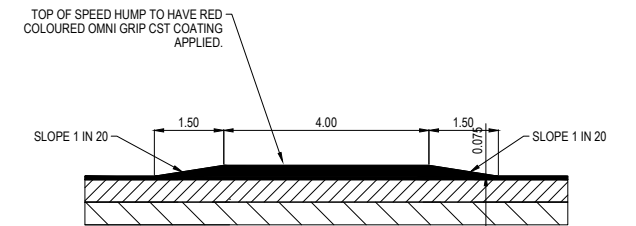
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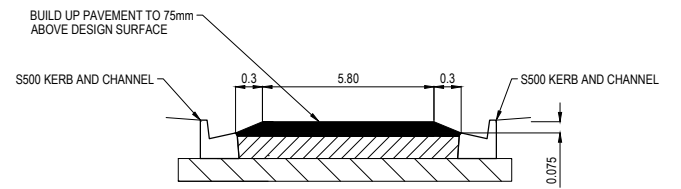
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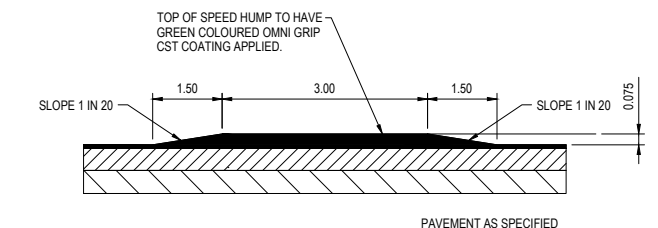
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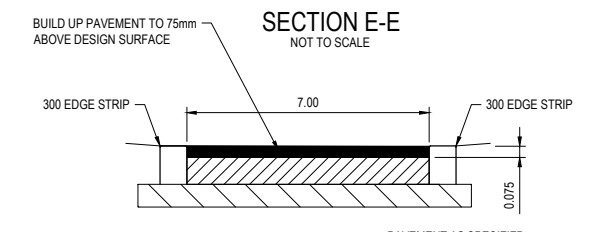
SECTION C-C
NOT TO SCALE



SECTION D-D
NOT TO SCALE



SECTION E-E
NOT TO SCALE



SECTION F-F
NOT TO SCALE

- NOTES REGARDING IRRIGATION MAIN**
- IRRIGATION MAIN TO BE LAID IN A SEPARATE TRENCH TO ALL OTHER SERVICES.
 - HORIZONTAL OFFSETS ARE SHOWN ON THE LAYOUT PLANS
 - CONTRACTORS TO MAINTAIN MINIMUM VERTICAL CLEARANCES WHEN CROSSING OTHER SERVICES (REFER TABLE BELOW)

Irrigation Main Vertical Clearances		Irrigation Main Vertical Clearances	
Existing or proposed service	Minimum Vertical Clearance(mm)	Existing or proposed service	Minimum Vertical Clearance(mm)
Water mains ≤ DN375	150	Electricity conduits and cables	225
Gas mains	150	Stormwater drains & pits	150
Teleco conduits and cables	150	Sewers - gravity	500

City of Casey
 Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
 Date: **5/8/2024**
 Approval subject to below conditions on cover page

FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
B	NUMBER OF PAGES AMENDED	21.05.24	L.M.	S.Y.					
A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.					



Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No: FE0005608
 Date: 27.11.2023
 PS Number: PS919014R

BW Beveridge Williams
 Development & Infrastructure Consultants
 1 Glenferrie Road Malvern VIC 3144
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Project Details: SMITHS LANE STAGE 28 CITY OF CASEY
 Drawing Title: GENERAL DETAILS

Sheet **04** of 39
 Scale: AS SHOWN
 Project Ref: 1101438 Stage No: 28 Drawing No: 004 Rev: B

K:\Jobs Data\1101438 110 Smiths Lane, Clyde (MIRVAC)_Eng\Stage 28\Drawings\1101438-28-002-DET.dwg



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
- OMNIGRIP CST COATING (OR APPROVED EQUIVALENT)

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
- RESERVES
- 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)

WARNING
BEWARE OF UNDERGROUND SERVICES
 The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works.
BEFORE YOU DIG
 www.byda.com.au

City of Casey
 Approved By: Timothy Sinnapp
 Planning Ref: PA21-0704
 Council Ref: R6138
 SD&E Ref: SEng00200/23
 Date: 5/8/2024
 Approval subject to below conditions on cover page

FOR CONTINUATION REFER DRG. 110/438-28-010

SERVICE OFFSET TABLE

Location	Gas		ND - Water		Water		Electricity		Telecommunication		Sewer		Irrigation	
	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)
DROMORE AVENUE	N	2.25	N	2.70	N	3.20	S	6.25	S	5.50	N	Ex1.0	-	-
BURNBANK PARADE	W	2.25	W	2.70	W	3.20	E	2.60	E	1.85	E/W	Ex1.0/Ex1.0	E	6.70
BLOOM STREET	E	2.25	E	2.70	E	3.20	W	2.60	W	1.85	E/W	Ex1.0/1.0	-	-
MONOCOT AVENUE (16m)	N	2.25	N	2.70	N	3.20	S	1.25	S	0.50	N	1.0	-	-
MONOCOT AVENUE (20m)	N	2.25	N	2.70	N	3.20	S	6.25	S	5.50	N/S	1.0/1.0	-	-
ATWELL ROAD	W	2.25	W	2.70	W	3.20	E	2.60	E	1.85	W	1.0	-	-
MODESTA STREET	S	2.25	S	2.70	S	3.20	N	2.60	N	1.85	N/S	1.0/1.0	-	-
CARDWELL ROAD	E	2.25	E	2.70	E	3.20	W	2.60	W	1.85	E	1.0	-	-
RAFFERTY DRIVE	E	2.25	E	2.70	E	3.20	W	2.60	W	1.85	E	1.0	-	-
ZALE ROAD (14.5m)	S	2.25	S	2.70	S	3.20	N	1.25	N	0.50	S	1.0	-	-
ZALE ROAD (16m)	S	2.25	S	2.70	S	3.20	N	2.60	N	1.85	S	1.0	-	-
HALISEND STREET	W	2.25	W	2.70	W	3.20	E	2.60	E	1.85	W	1.0	-	-
FUTURE SPINOSA WALK	E	1.00	E	1.45	E	1.95	-	-	-	-	-	-	-	-
FUTURE KAI LANE	-	-	-	-	-	-	E	1.25	E	0.5	W	2.5	-	-

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

ROAD LAYOUT TABLE

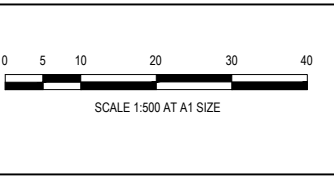
Road Name	Reserve Width (m)	Road Width (m)			Kerb Type		Verge Width (m)	
		Lip to Lip	Inv to Inv	Back to Back	Nth/West	Sth/East	Nth/West	Sth/East
DROMORE AVENUE	20.00	6.40	7.30	7.60	600 B2	600 B2	4.50	8.20
BURNBANK PARADE	25.00	10.30/8.75	11.20/9.65	11.50/9.95	600 B2	600 B2	4.90/4.50	8.90/10.85
BLOOM STREET	16.00	6.40	7.30	7.60	600 B2	600 B2	4.20	4.50
MONOCOT AVENUE (16m RR)	16.00	8.35	9.25	9.55	600 B2	600 B2	2.25	4.50
MONOCOT AVENUE (20m RR)	20.00	6.40	7.30	7.60	600 B2	600 B2	4.50	8.20
ATWELL ROAD	16.00	6.40	7.30	7.60	600 B2	600 B2	4.50	4.20
MODESTA STREET	16.00	6.40	7.30	7.60	600 B2	600 B2	4.20	4.50
CARDWELL ROAD	16.00	6.40	7.30	7.60	600 B2	600 B2	4.20	4.50
RAFFERTY DRIVE	20.00	6.40	7.30	7.60	600 B2	600 B2	6.35	6.35
ZALE ROAD (14.5m RR)	14.50	6.40	7.30	7.60	600 B2	600 B2	2.70	4.50
ZALE ROAD (16m RR)	16.00	6.40	7.30	7.60	600 B2	600 B2	4.20	4.50
HALISEND STREET	16.00	6.40	7.30	7.60	600 B2	600 B2	4.50	4.20

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
D	STAGE 28B REPLACED WITH REGULAR LOTS	21.05.24	L.M.	S.Y.					
E	PIT 28-82 & EP 28-83 ADDED/28R AMENDED	15.03.24	B.P.	S.Y.					
C	PAPER ROAD RENAMED	01.03.24	B.P.	S.Y.					
B	LINE 28-07 to 28-08 DIAMETER CHANGED	19.01.24	B.P.	S.Y.					
A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.					

SMITHS LANE
 CLYDE NORTH



Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No: R6309608
 Date: 27.11.2023
 PS Number: PS19014R

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

Project Details
SMITHS LANE
STAGE 28
CITY OF CASEY

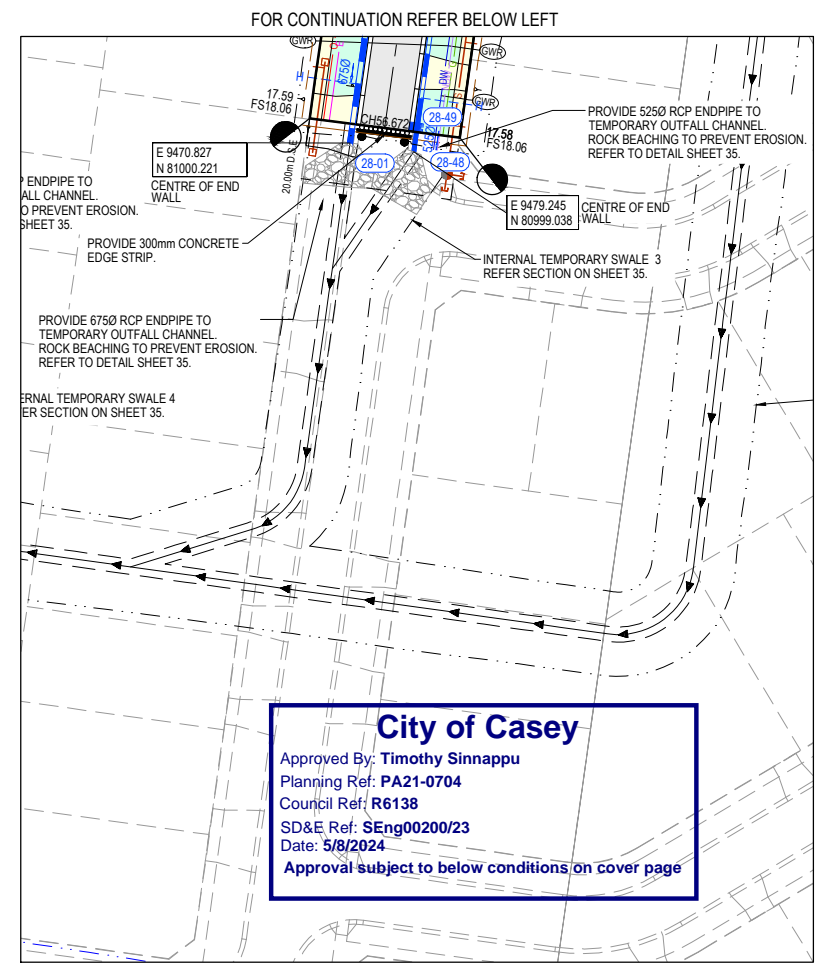
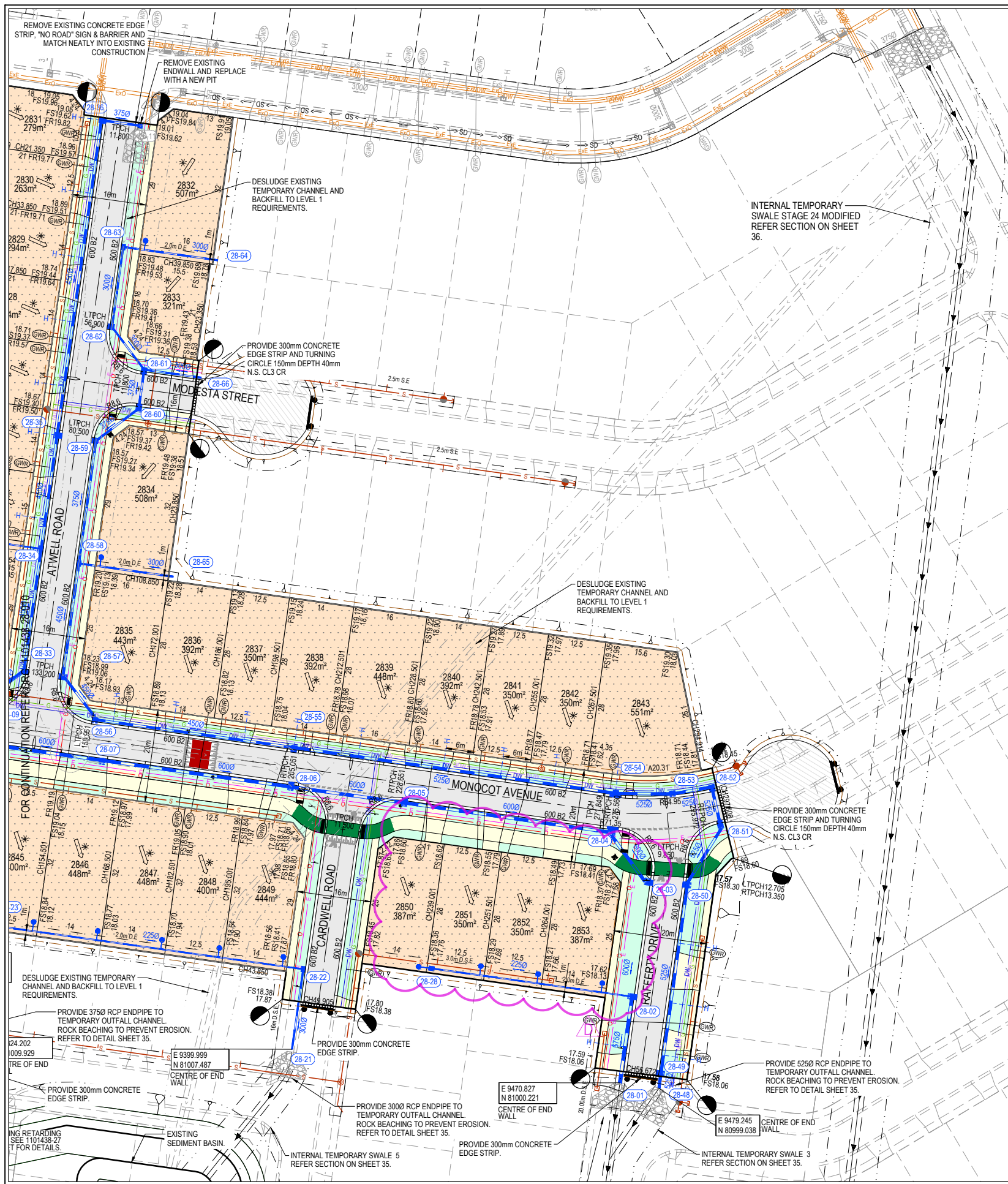
Drawing Title
LAYOUT PLAN
(SHEET 1 OF 2)

Sheet **05** of 39

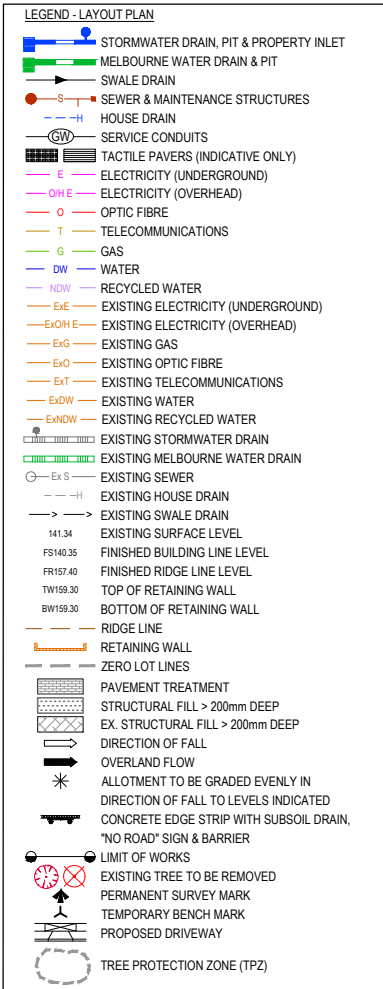
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Project Ref: **1101438** Stage No: **28** Drawing No: **010** Rev: **E**

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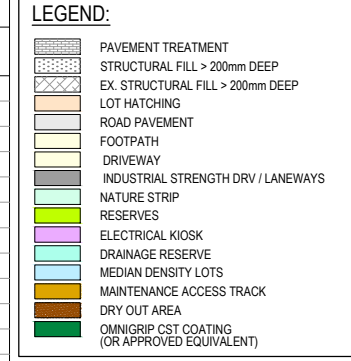
City of Casey
 Approved By: Timothy Sinnappu
 Planning Ref: PA21-0704
 Council Ref: R6138
 SD&E Ref: SEng00200/23
 Date: 5/8/2024
 Approval subject to below conditions on cover page



SERVICE OFFSET TABLE

Location	Side	Gas		ND - Water		Water		Electricity		Telecommunication		Sewer		Irrigation	
		Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)
DROMORE AVENUE	N	2.25		N	2.70	N	3.20	S	6.25	S	5.50	N	Ex1.0	-	-
BURNBANK PARADE	W	2.25		W	2.70	W	3.20	E	2.60	E	1.85	E/W	Ex1.0/Ex1.0	E	6.70
BLOOM STREET	E	2.25		E	2.70	E	3.20	W	2.60	W	1.85	E/W	Ex1.0/1.0	-	-
MONOCOT AVENUE (16m)	N	2.25		N	2.70	N	3.20	S	1.25	S	0.50	N	1.0	-	-
MONOCOT AVENUE (20m)	N	2.25		N	2.70	N	3.20	S	6.25	S	5.50	N/S	1.0/1.0	-	-
ATWELL ROAD	W	2.25		W	2.70	W	3.20	E	2.60	E	1.85	W	1.0	-	-
MODESTA STREET	S	2.25		S	2.70	S	3.20	N	2.60	N	1.85	N/S	1.0/1.0	-	-
CARDWELL ROAD	E	2.25		E	2.70	E	3.20	W	2.60	W	1.85	E	1.0	-	-
RAFFERTY DRIVE	E	2.25		E	2.70	E	3.20	W	2.60	W	1.85	E	1.0	-	-
ZALE ROAD (14.5m)	S	2.25		S	2.70	S	3.20	N	1.25	N	0.50	S	1.0	-	-
ZALE ROAD (16m)	S	2.25		S	2.70	S	3.20	N	2.60	N	1.85	S	1.0	-	-
HALISEND STREET	W	2.25		W	2.70	W	3.20	E	2.60	E	1.85	W	1.0	-	-
FUTURE SPINOSA WALK	E	1.00		E	1.45	E	1.95	-	-	-	-	-	-	-	-
FUTURE KAI LANE	-	-		-	-	-	-	E	1.25	E	0.5	W	2.5	-	-

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



WARNING
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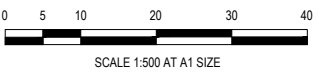
ROAD LAYOUT TABLE

Road Name	Reserve Width (m)	Road Width (m)			Kerb Type		Verge Width (m)	
		Lip to Lip	Inv to Inv	Back to Back	Nth/West	Sth/East	Nth/West	Sth/East
DROMORE AVENUE	20.00	6.40	7.30	7.60	600 B2	600 B2	4.50	8.20
BURNBANK PARADE	25.00	10.30/8.75	11.20/9.65	11.50/9.95	600 B2	600 B2	4.90/4.50	8.90/10.85
BLOOM STREET	16.00	6.40	7.30	7.60	600 B2	600 B2	4.20	4.50
MONOCOT AVENUE (16m RR)	16.00	8.35	9.25	9.55	600 B2	600 B2	2.25	4.50
MONOCOT AVENUE (20m RR)	20.00	6.40	7.30	7.60	600 B2	600 B2	4.50	8.20
ATWELL ROAD	16.00	6.40	7.30	7.60	600 B2	600 B2	4.50	4.20
MODESTA STREET	16.00	6.40	7.30	7.60	600 B2	600 B2	4.20	4.50
CARDWELL ROAD	16.00	6.40	7.30	7.60	600 B2	600 B2	4.20	4.50
RAFFERTY DRIVE	20.00	6.40	7.30	7.60	600 B2	600 B2	6.35	6.35
ZALE ROAD (14.5m RR)	14.50	6.40	7.30	7.60	600 B2	600 B2	2.70	4.50
ZALE ROAD (16m RR)	16.00	6.40	7.30	7.60	600 B2	600 B2	4.20	4.50
HALISEND STREET	16.00	6.40	7.30	7.60	600 B2	600 B2	4.50	4.20

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
D	STAGE 28S REPLACED WITH REGULAR LOTS	21.05.24	L.M.	S.Y.					
C	PAPER ROAD RENAMED	01.03.24	B.P.	S.Y.					
B	LINE 28-07 to 28-08 DIAMETER CHANGED	19.01.24	B.P.	S.Y.					
A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.					



Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No: F63003608
 Date: 27.11.2023
 PS Number: PS190141R

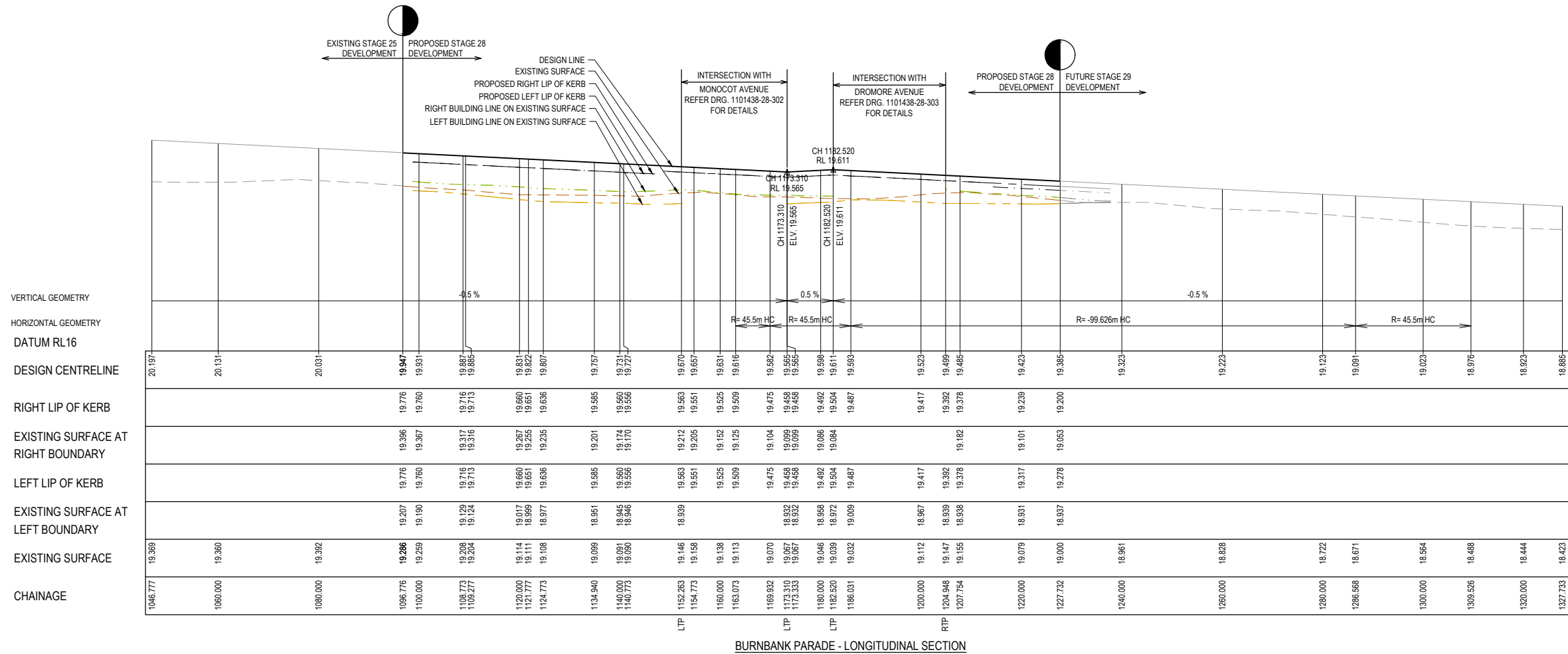
BW Beveridge Williams
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 www.beveridgewilliams.com.au

Project Details
SMITHS LANE STAGE 28 CITY OF CASEY
 Drawing Title
LAYOUT PLAN (SHEET 2 OF 2)

Sheet **06** of 39
 Scale
1:500 @ A1
 Project Ref: 1101438
 Stage No: 28
 Drawing No: 011
 Rev: D

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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

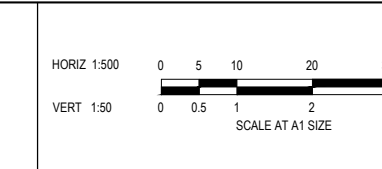


BURNBANK PARADE - LONGITUDINAL SECTION

City of Casey
 Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
 Date: **5/8/2024**
 Approval subject to below conditions on cover page

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B	NUMBER OF PAGES AMENDED	21.05.24	L.M.	S.Y.					
A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.					



Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No: P2003606
 Date: 27.11.2023
 PS Number: PS919014R

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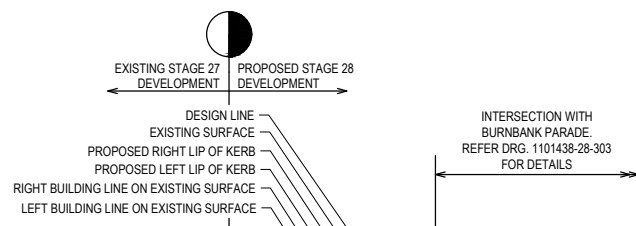
Project Details: SMITHS LANE STAGE 28 CITY OF CASEY
 Drawing Title: ROAD LONGITUDINAL SECTIONS BURNBANK PARADE

Sheet 07 of 39
Scale: 1:500 H 1:50 V @ A1
Project Ref: 1101438
Stage No: 28
Drawing No: 100
Rev: B

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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

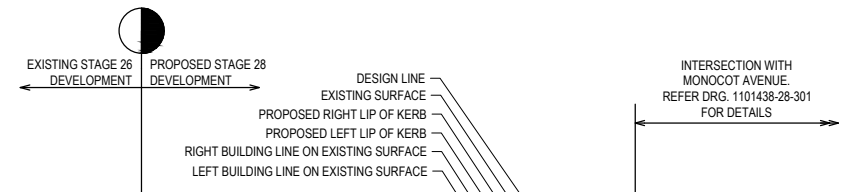
City of Casey
 Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
 Date: **5/8/2024**
 Approval subject to below conditions on cover page



VERTICAL GEOMETRY
 HORIZONTAL GEOMETRY
 DATUM RL17

	20.076	19.990	19.880	19.844	19.826	19.781	19.711	19.702	19.690	19.686	19.683	19.555	19.661
DESIGN CENTRELINE					19.826								
RIGHT LIP OF KERB					19.720	19.715	19.674	19.604					
EXISTING SURFACE AT RIGHT BOUNDARY					19.304	19.303	19.243	19.604					
LEFT LIP OF KERB					19.720	19.715	19.674	19.604	19.595				
EXISTING SURFACE AT LEFT BOUNDARY					19.194	19.186	19.177	19.114					
EXISTING SURFACE	19.309	19.292	19.345	19.276	19.243	19.226	19.189	19.162	19.159	19.146	19.145	19.088	19.057
CHAINAGE	120.793	140.000	160.000	167.192	170.793	171.688	180.000	194.002	196.833	198.108	198.335	201.081	204.958

DROMORE AVENUE - LONGITUDINAL SECTION



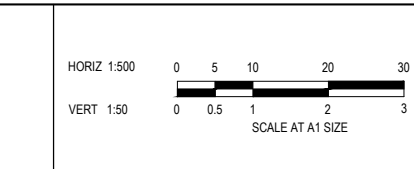
VERTICAL GEOMETRY
 HORIZONTAL GEOMETRY
 DATUM RL16

	19.882	19.843	19.743	19.643	19.632	19.604	19.562	19.543	19.534	19.517	19.493	19.481	19.442	19.434	19.406	19.393	19.382	19.343	19.305	19.295	19.292	19.136	19.238	19.242	
DESIGN CENTRELINE					19.632																				
RIGHT LIP OF KERB					19.537	19.525	19.498	19.455	19.453	19.428	19.410	19.386	19.374	19.337	19.300	19.287	19.275	19.237	19.198	19.194	19.194	19.136	19.198	19.194	
EXISTING SURFACE AT RIGHT BOUNDARY					19.010	19.005	19.003	18.994	18.981	18.974	18.949	18.911	18.896	18.895	18.888	18.878	18.735	18.765	18.778	18.761					
LEFT LIP OF KERB					19.537	19.525	19.498	19.455	19.437	19.428	19.410	19.386	19.374	19.337	19.300	19.287	19.275	19.237	19.198	19.194	19.194	19.136	19.198	19.194	19.194
EXISTING SURFACE AT LEFT BOUNDARY					18.968	18.953	18.918	18.895	18.891	18.887	18.874	18.863	18.852	18.847	18.830	18.797	18.780	18.780	18.794	18.638	18.627				
EXISTING SURFACE	19.128	19.122	18.917	18.943	18.933	18.924	18.863	18.856	18.849	18.837	18.819	18.809	18.809	18.809	18.818	18.859	18.872	18.711	18.740	18.740	18.760	18.724	18.724	18.722	18.722
CHAINAGE	72.350	80.000	100.000	120.000	122.350	127.850	136.350	140.000	141.850	145.313	150.146	152.490	160.000	161.848	167.372	170.000	172.256	180.000	187.661	187.661	188.688	196.925	200.000	201.125	201.125

BLOOM STREET - LONGITUDINAL SECTION

FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
B	NUMBER OF PAGES AMENDED	21.05.24	L.M.	S.Y.					
A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.					



Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No: PE0003608
 Date: 27.11.2023
 PS Number: PS919014R

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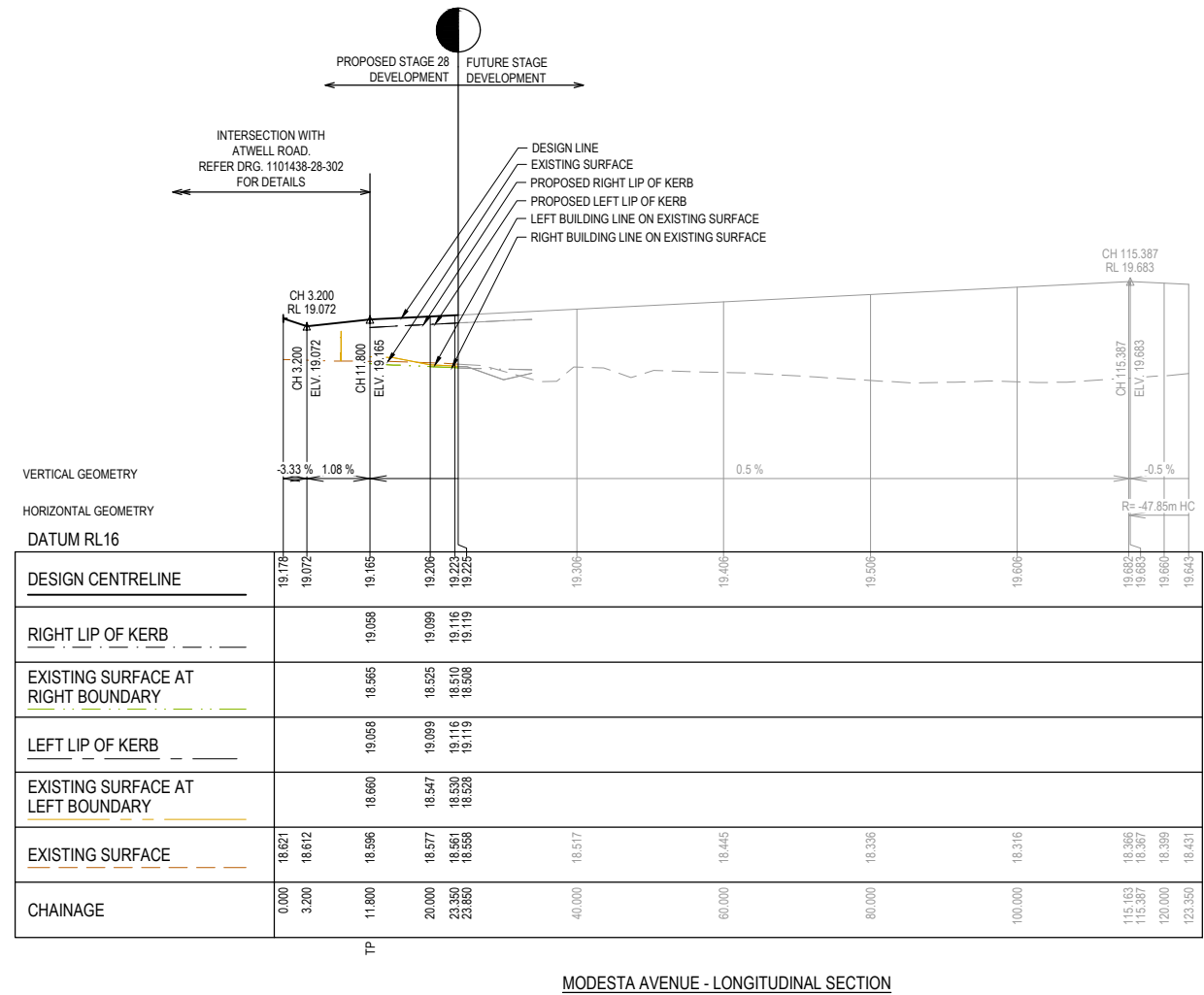
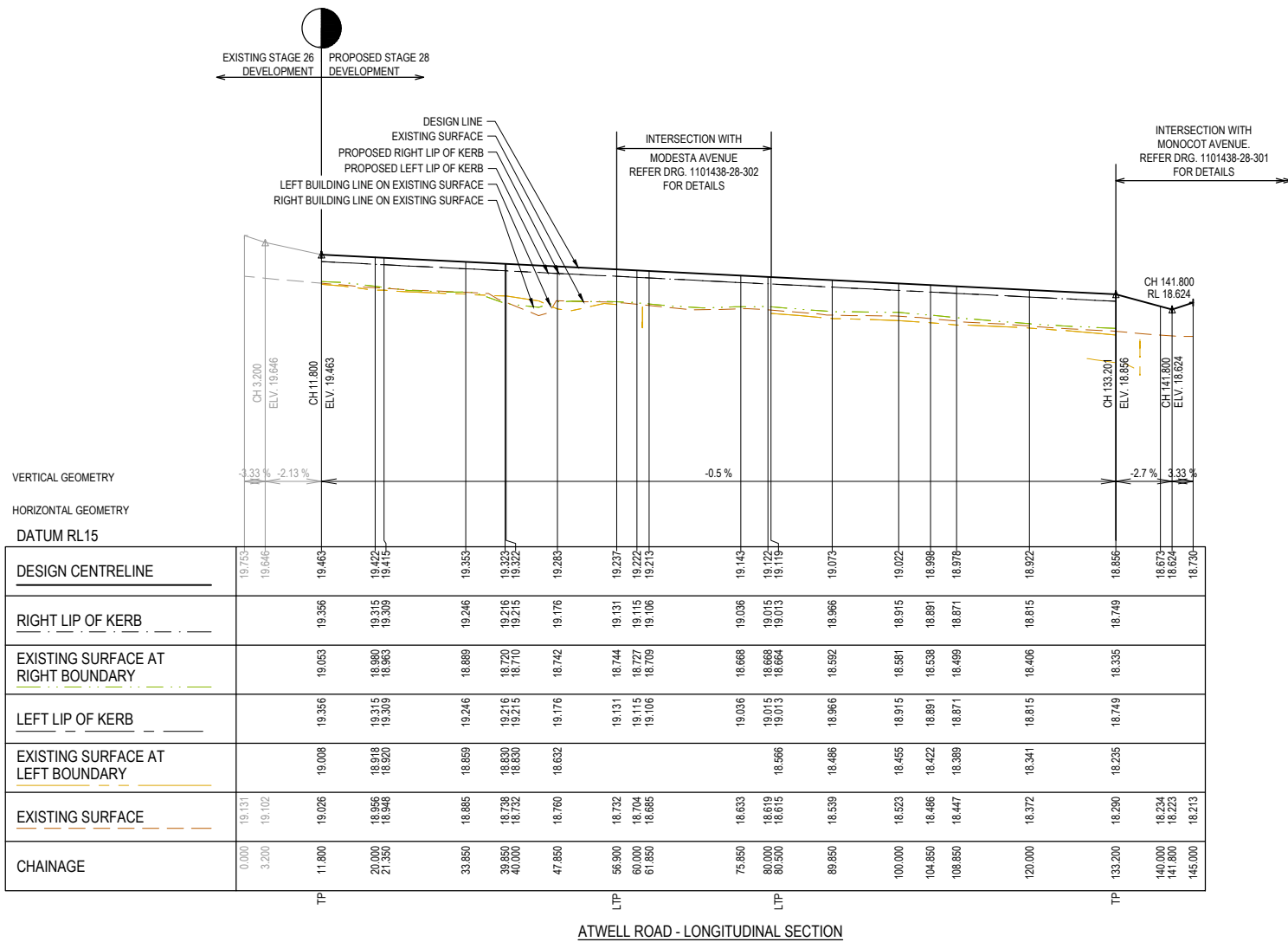
Project Details: SMITHS LANE STAGE 28 CITY OF CASEY
 Drawing Title: ROAD LONGITUDINAL SECTIONS DROMORE AVENUE & BLOOM STREET

Sheet 08 of 39	Scale: 1:500 H 1:50 V @ A1
Project Ref: 1101438	Stage No: 28
Drawing No: 101	Rev: B

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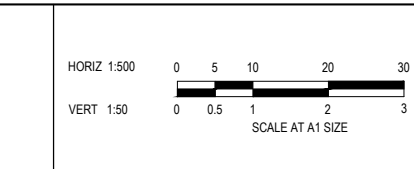
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	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB

City of Casey
 Approved By: Timothy Sinnappu
 Planning Ref: PA21-0704
 Council Ref: R6138
 SD&E Ref: SEng00200/23
 Date: 5/8/2024
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 Reg. No: PS3003608
 Date: 27.11.2023
 PS Number: PS919014R

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Project Details
 SMITHS LANE
 STAGE 28
 CITY OF CASEY

Drawing Title
 ROAD LONGITUDINAL SECTIONS
 ATWELL ROAD & MODESTA AVENUE

Sheet **10** of 39

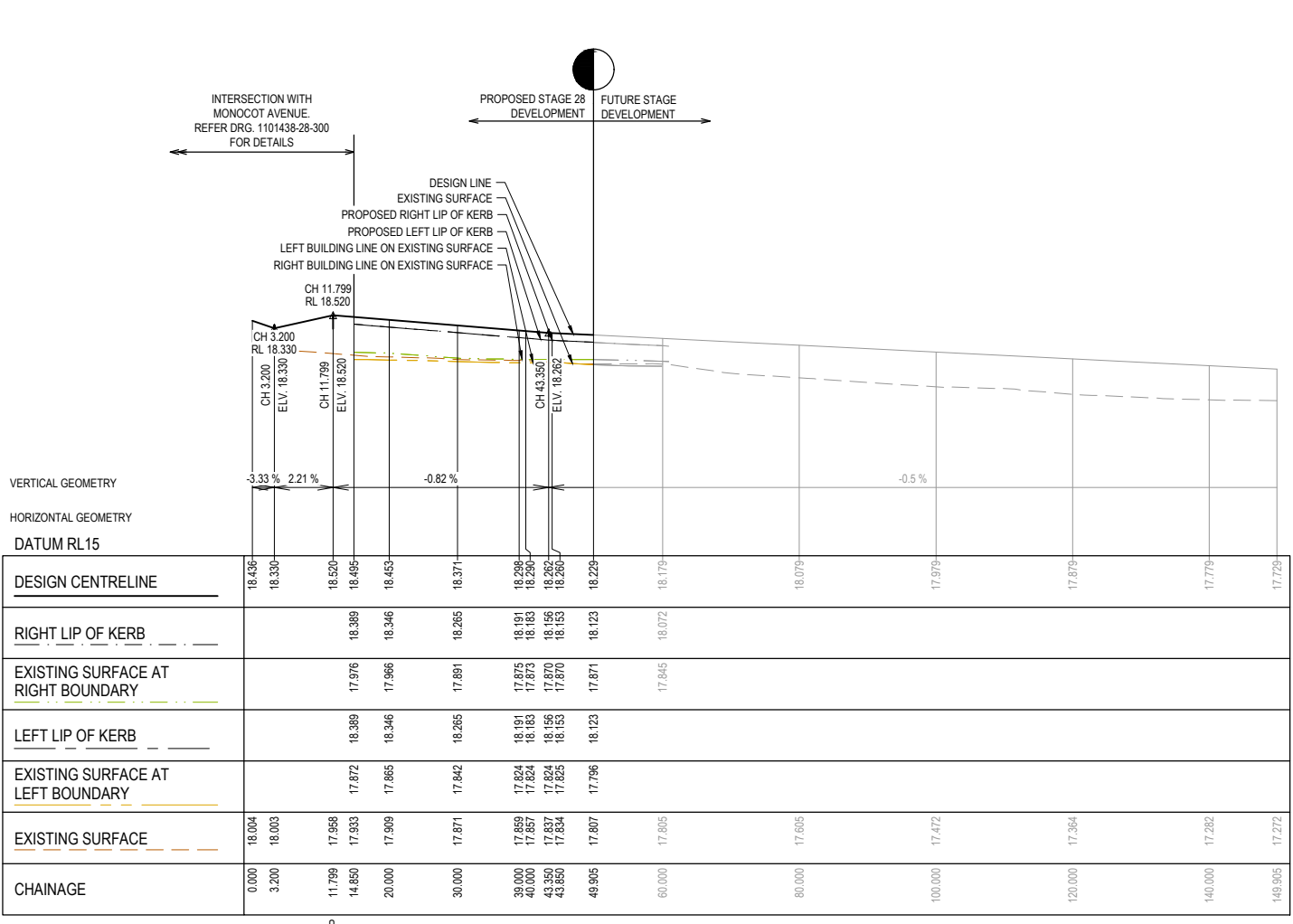
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Project Ref: 1101438 Stage No: 28 Drawing No: 103 Rev: B

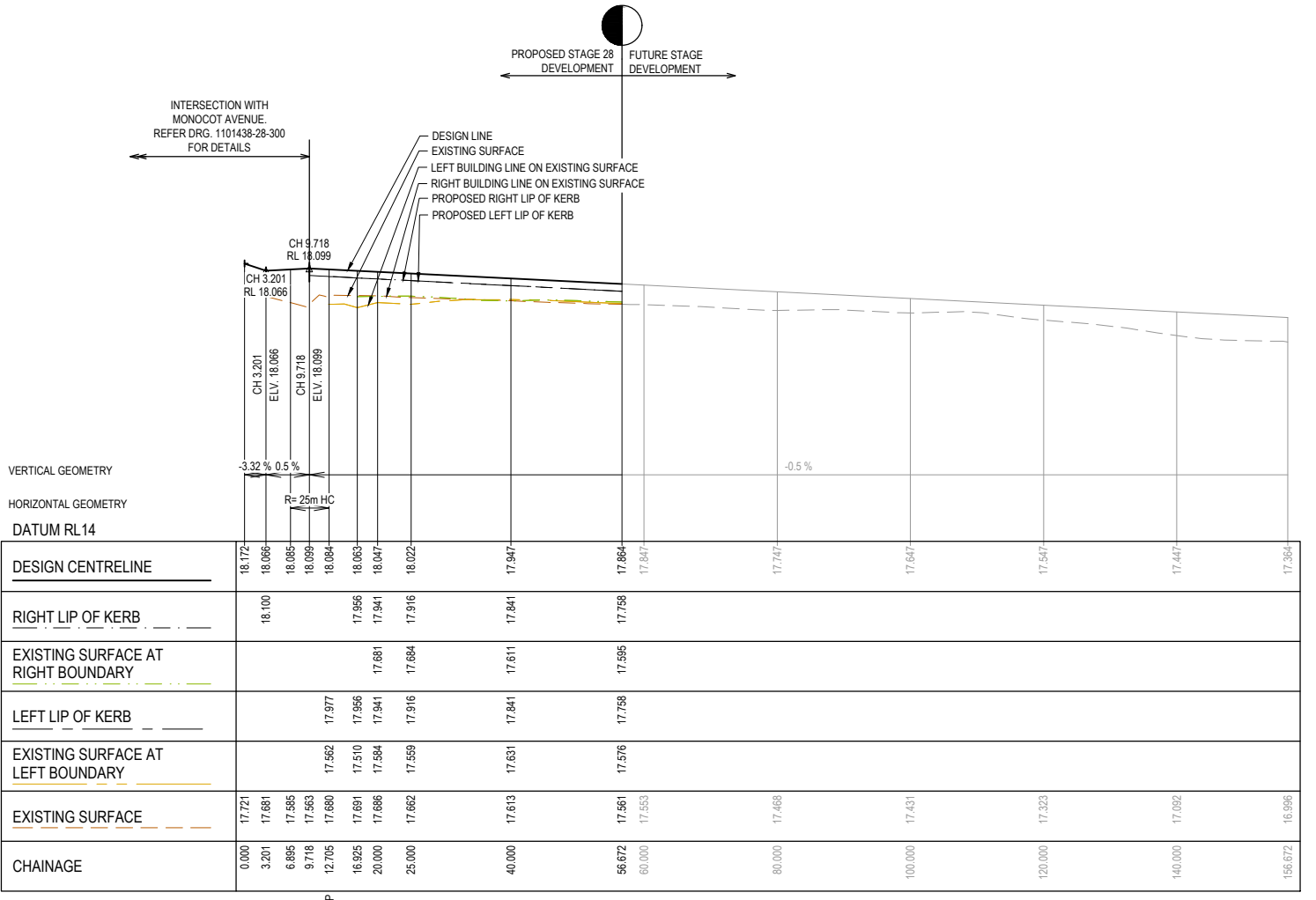
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LEGEND	
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	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB

City of Casey
 Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
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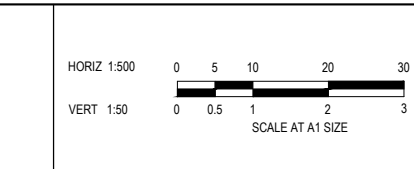
CARDWELL ROAD - LONGITUDINAL SECTION



RAFFERTY DRIVE - LONGITUDINAL SECTION

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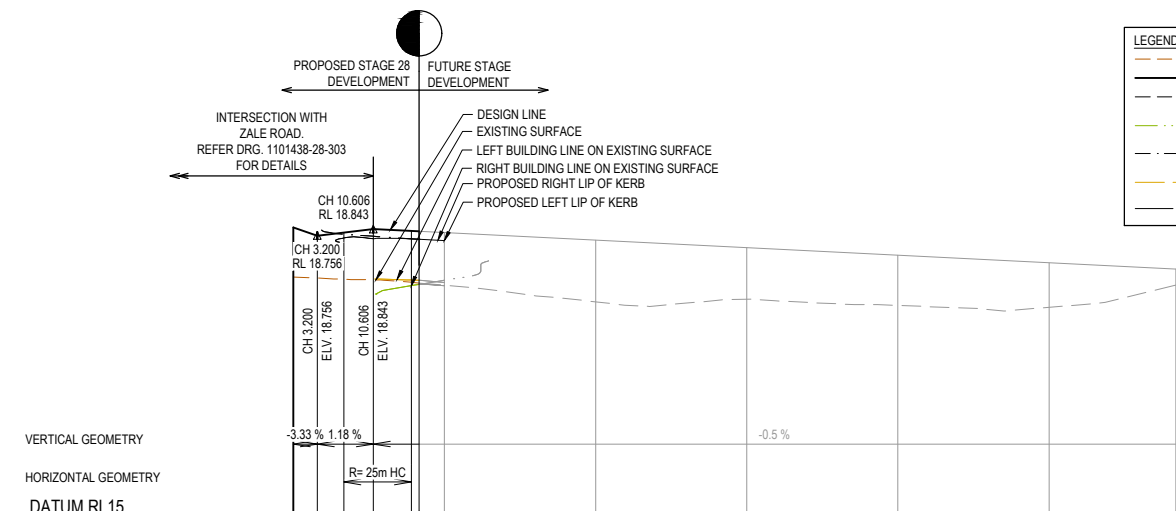
Project Details
 SMITHS LANE
 STAGE 28
 CITY OF CASEY

Drawing Title
 ROAD LONGITUDINAL SECTIONS
 CARDWELL ROAD & RAFFERTY DRIVE

Sheet 11 of 39			
Scale 1:500 H 1:50 V @ A1			
Project Ref 1101438	Stage No 28	Drawing No 104	Rev B

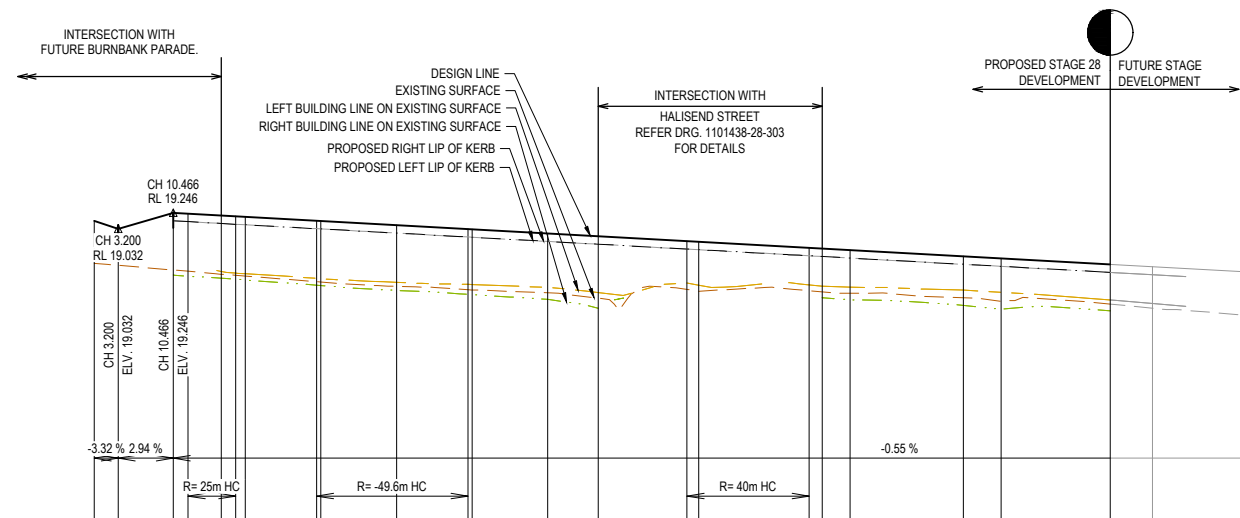
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LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB



VERTICAL GEOMETRY		HORIZONTAL GEOMETRY	
DATUM RL15			
DESIGN CENTRELINE	18.862	18.756	18.706
RIGHT LIP OF KERB	18.774	18.747	18.706
EXISTING SURFACE AT RIGHT BOUNDARY			18.112
LEFT LIP OF KERB	18.724	18.717	18.706
EXISTING SURFACE AT LEFT BOUNDARY		18.170	18.167
EXISTING SURFACE	18.209	18.194	18.100
CHAINAGE	0.000	3.200	116.780

HALISEND STREET - LONGITUDINAL SECTION



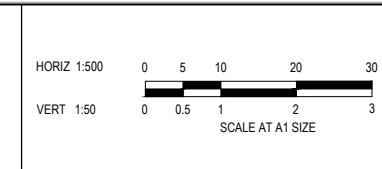
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EXISTING SURFACE AT RIGHT BOUNDARY	18.407	18.381	17.951
LEFT LIP OF KERB	19.128	19.104	18.458
EXISTING SURFACE AT LEFT BOUNDARY	18.470	18.291	18.092
EXISTING SURFACE	18.550	18.433	18.039
CHAINAGE	0.000	3.200	140.000

ZALE ROAD - LONGITUDINAL SECTION

City of Casey
 Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
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 Date: 24.11.2023
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 Reg. No: P2003606
 Date: 27.11.2023
 PS Number: **PS919014R**

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Project Details
SMITHS LANE
STAGE 28
CITY OF CASEY

Drawing Title
ROAD LONGITUDINAL SECTIONS
ZALE ROAD & HALISEND STREET

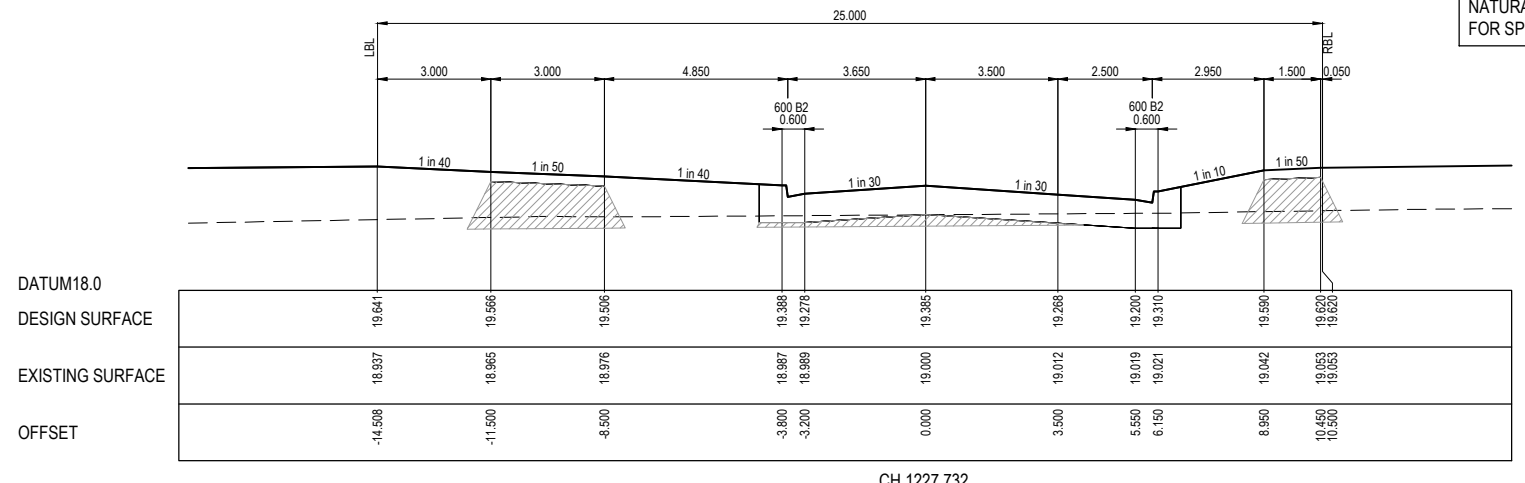
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Scale	1:500 H 1:50 V @ A1
Project Ref	1101438
Stage No	28
Drawing No	105
Rev	B

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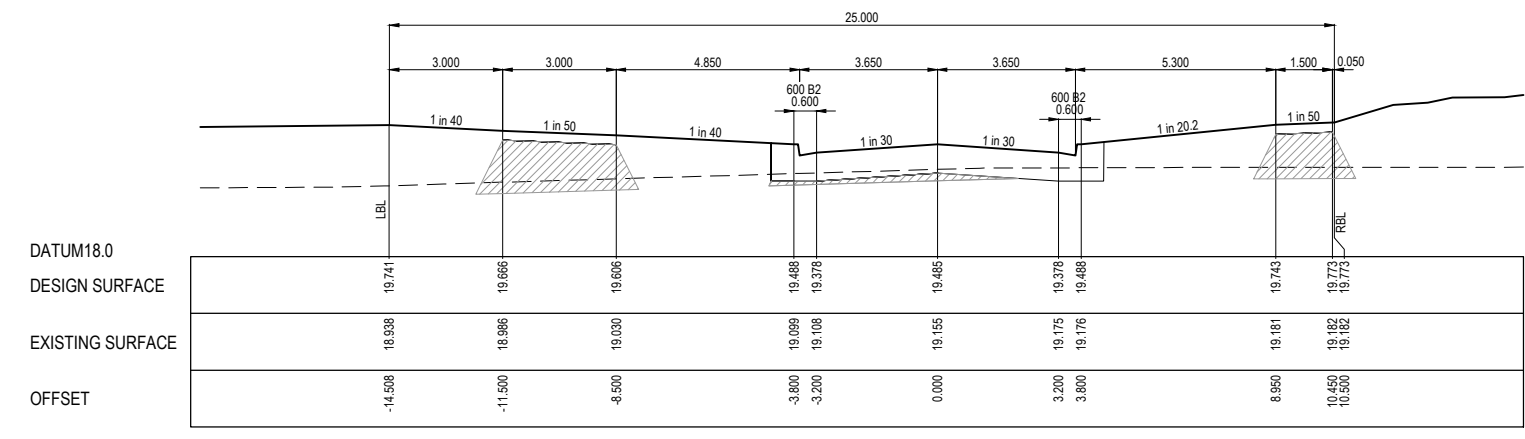
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LEGEND

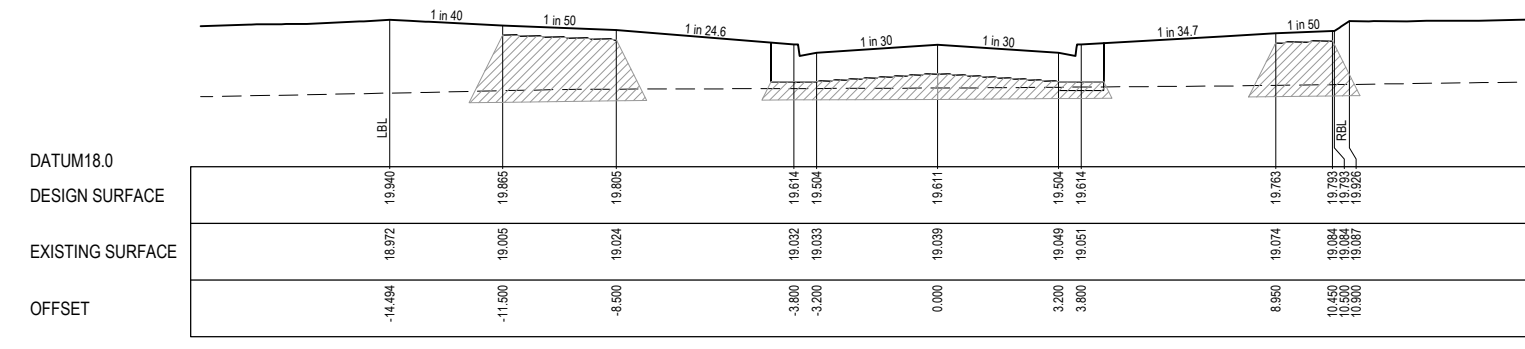
- EXISTING SURFACE
- DESIGN SURFACE
- ▨ STRUCTURAL FILL



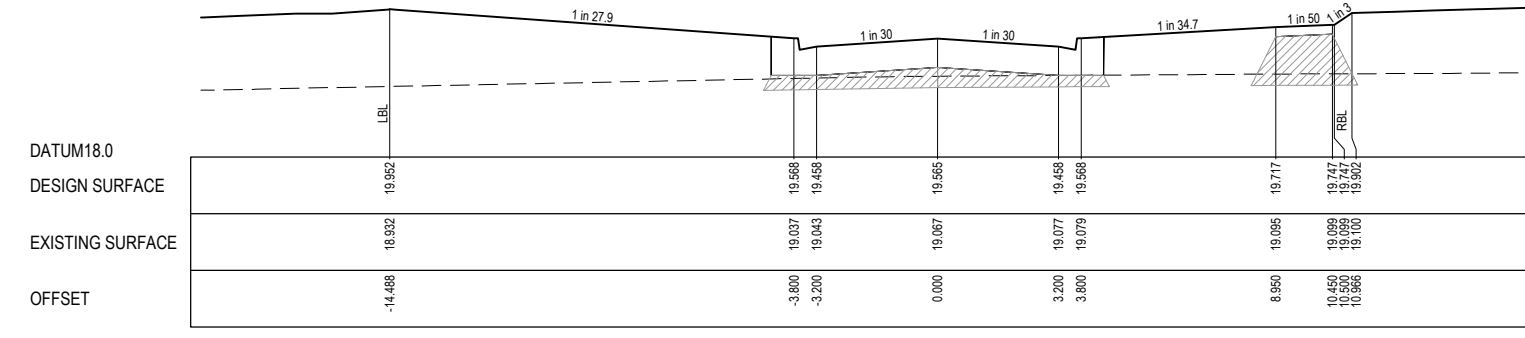
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CH 1207.754



RTPCH 1182.520

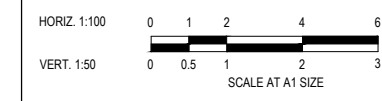


LTPCH 1173.333

City of Casey
 Approved By: **Timothy Sinnappu**
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 Date: 19.10.2023
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 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No. FE0003608
 Date: 27.11.2023
 PS Number: PS919014R

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Project Details
 SMITHS LANE
 STAGE 28
 CITY OF CASEY

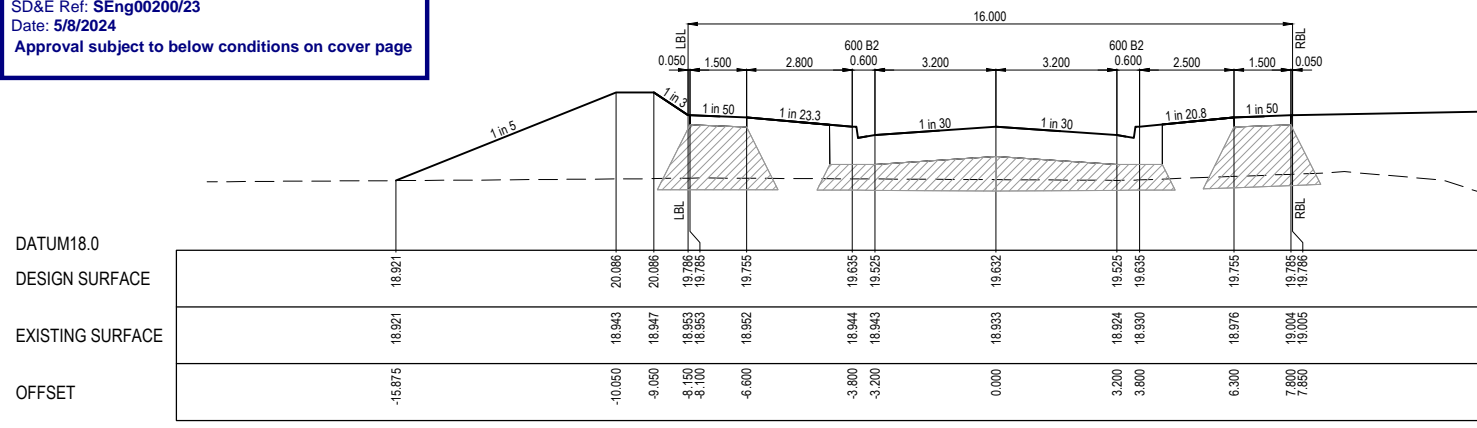
Drawing Title
 ROAD CROSS SECTIONS
 BURNBANK PARADE
 (SHEET 2 OF 2)

Sheet	14 of 39
Scale	1:100 H 1:50 V @ A1
Project Ref	1101438
Stage No	28
Drawing No	201
Rev	B

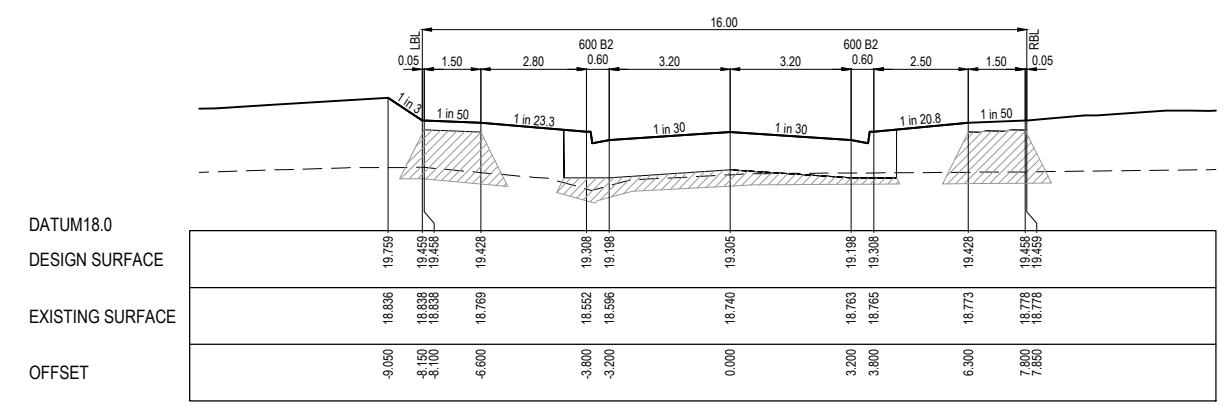
City of Casey
 Approved By: **Timothy Sinnappu**
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STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

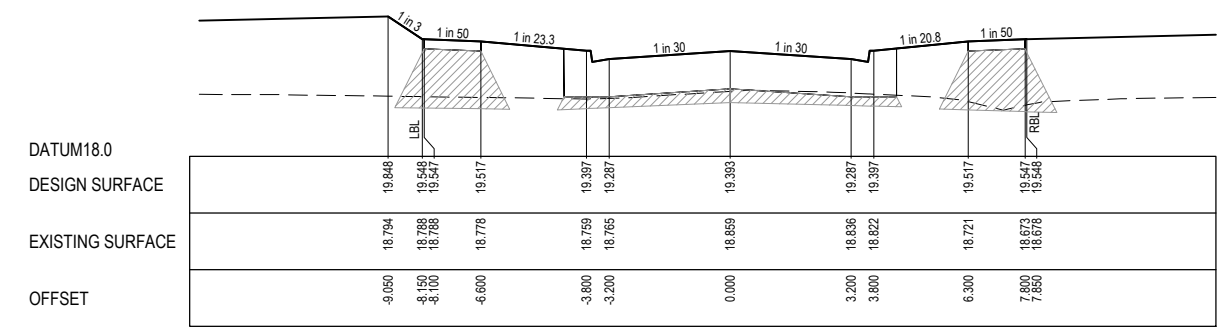
LEGEND	
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	DESIGN SURFACE
	STRUCTURAL FILL



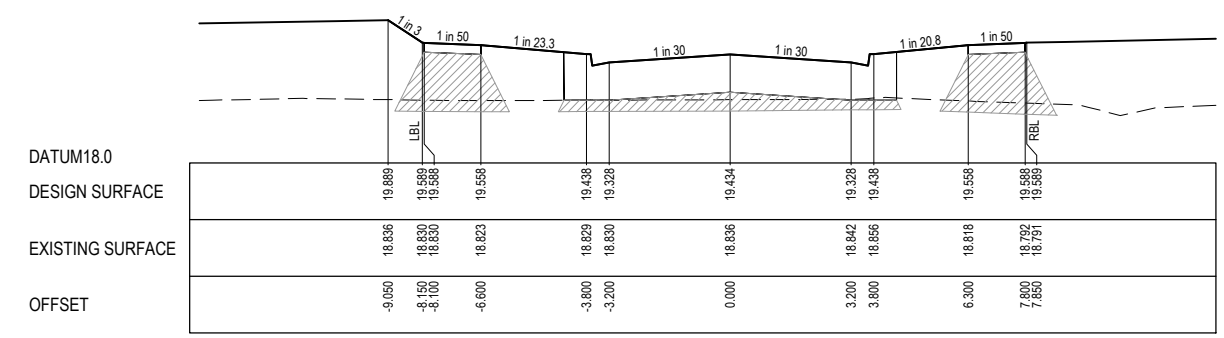
CH 122.350
 (LIMIT OF STAGE 26 WORKS)
 BLOOM STREET - ROAD CROSS SECTIONS



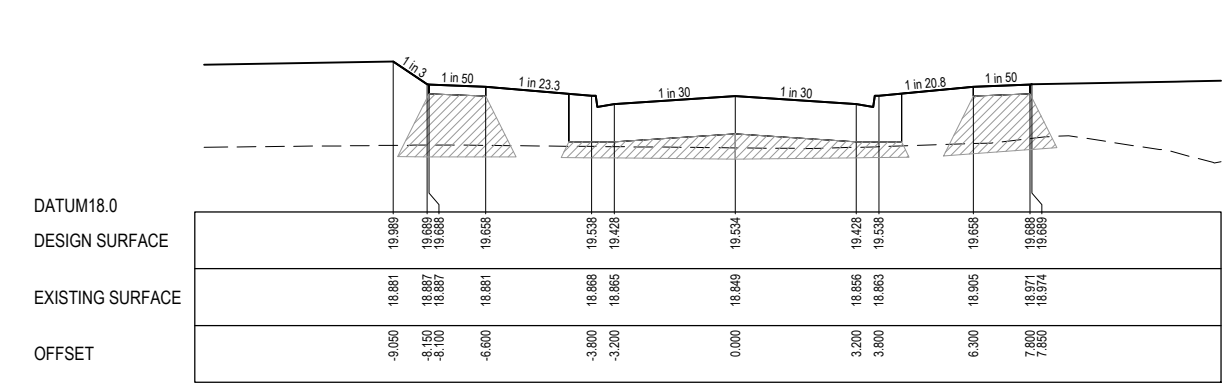
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CH 170.000



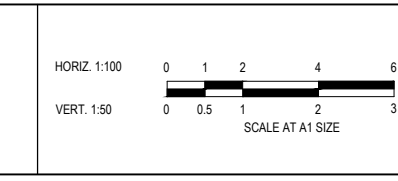
CH 161.848



CH 141.850
 BLOOM STREET - ROAD CROSS SECTIONS

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 Reg. No: PE3003608
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 PS Number: PS919014R

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Project Details: SMITHS LANE STAGE 28 CITY OF CASEY
 Drawing Title: ROAD CROSS SECTIONS DROMORE AVENUE & BLOOM STREET

Sheet 15 of 39
 Scale: 1:100 H 1:50 V @ A1
 Project Ref: 1101438 Stage No: 28 Drawing No: 202 Rev: B

K:\Jobs Data\1101438 110 Smiths Lane, Clyde (MIRVAC)_Eng\Stage 28\Drawings\1101438-28-200-RXS.dwg

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- STRUCTURAL FILL

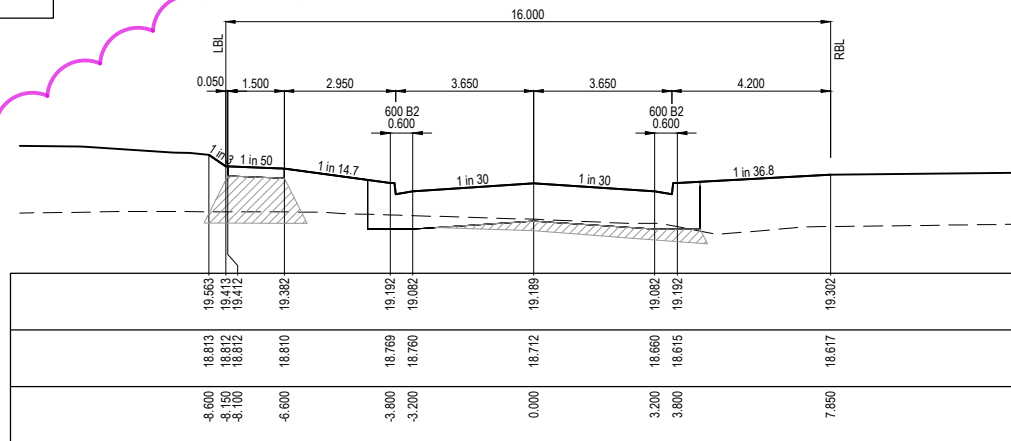
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

DATUM18.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET



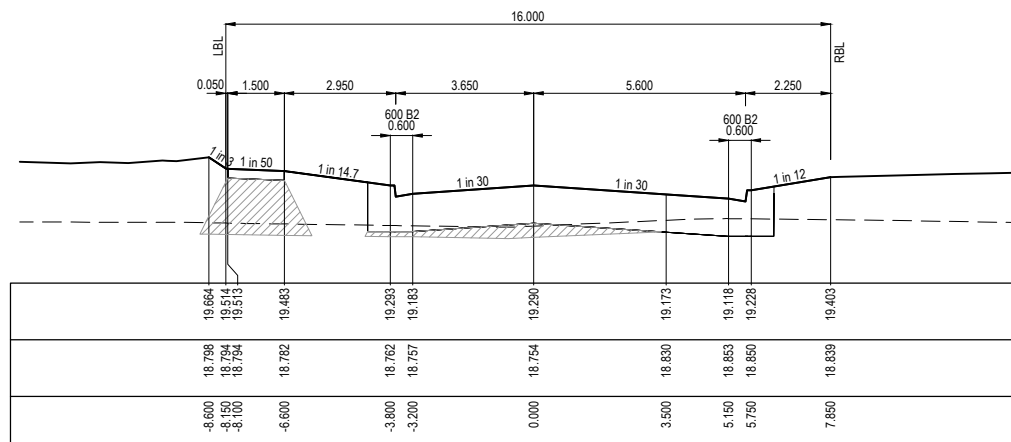
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DATUM18.0

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EXISTING SURFACE

OFFSET



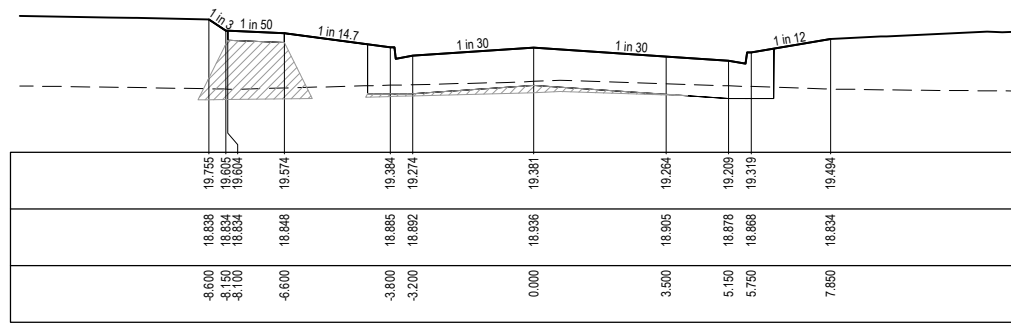
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DATUM18.0

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EXISTING SURFACE

OFFSET



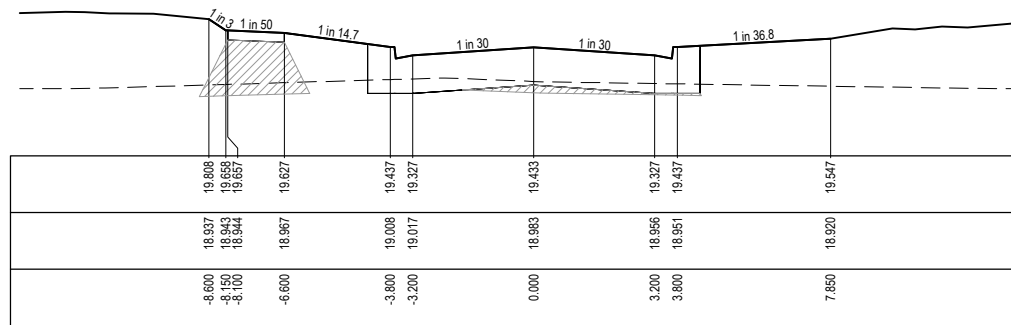
CH 27.988

DATUM18.0

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EXISTING SURFACE

OFFSET



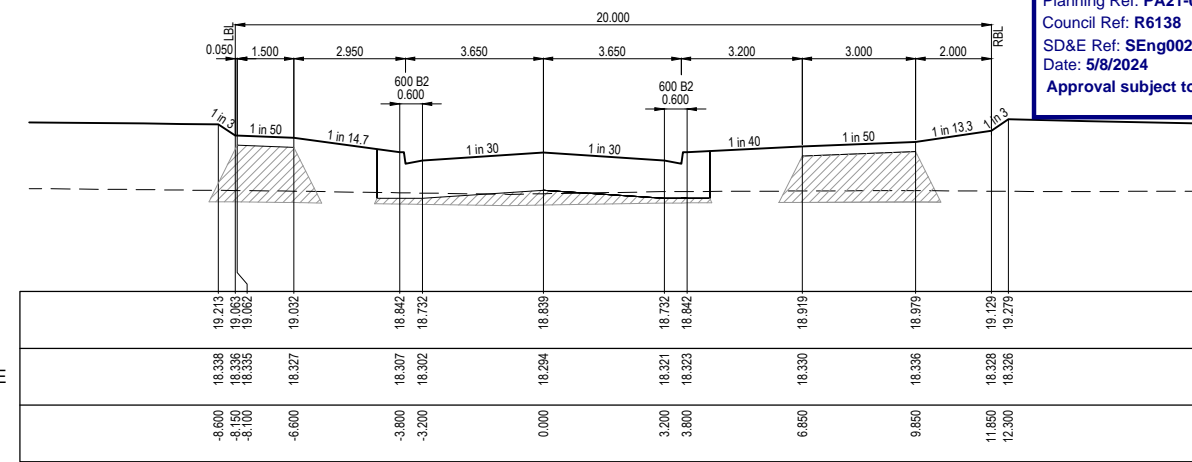
CH 17.488

DATUM17.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET



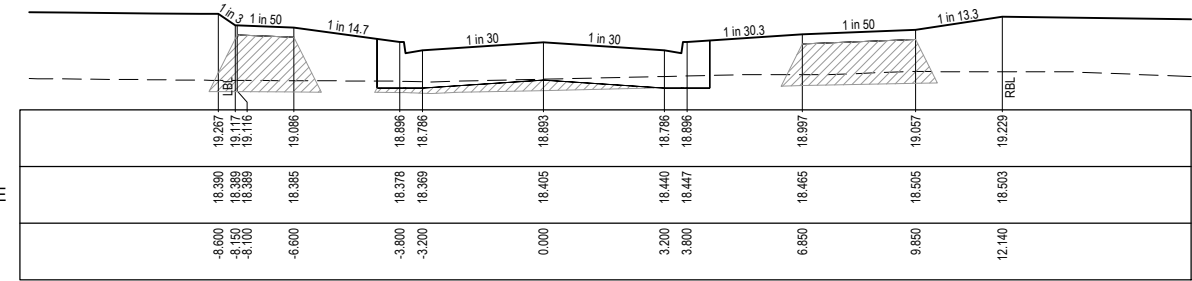
LTPCH 136.351

DATUM18.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET



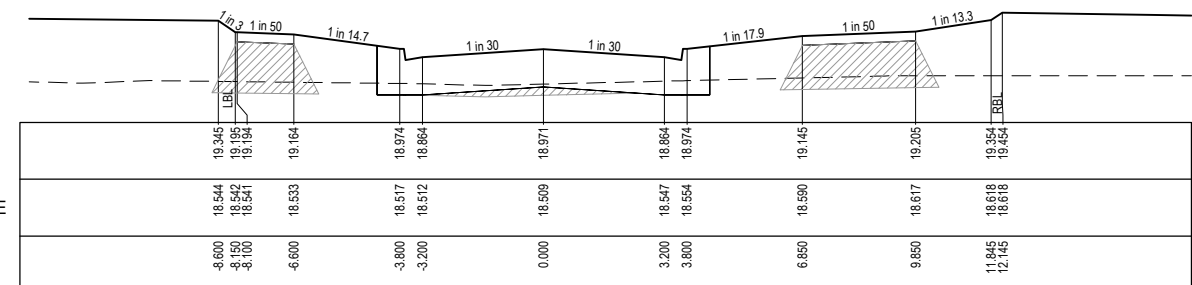
CH 125.565

DATUM18.0

DESIGN SURFACE

EXISTING SURFACE

OFFSET



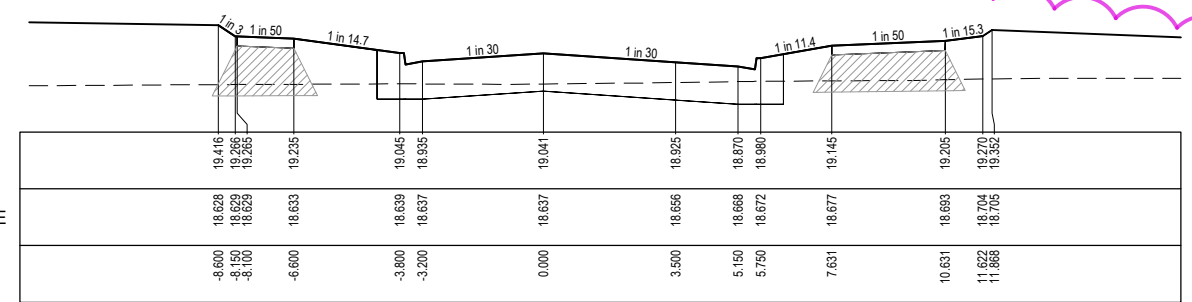
CH 110.000

DATUM18.0

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OFFSET



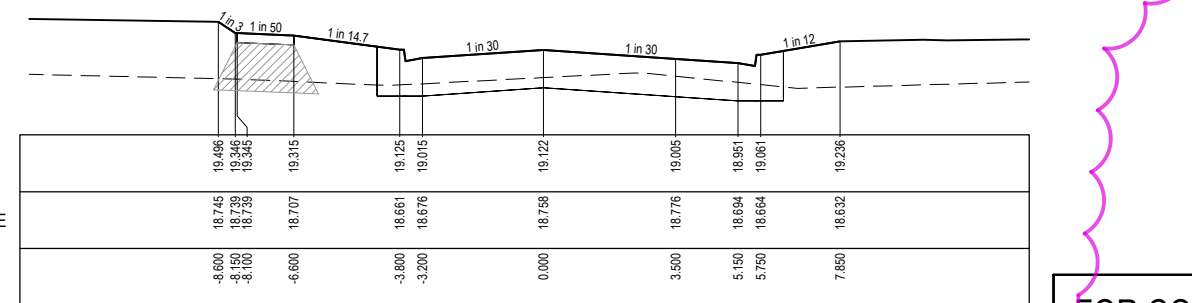
CH 95.886

DATUM18.0

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EXISTING SURFACE

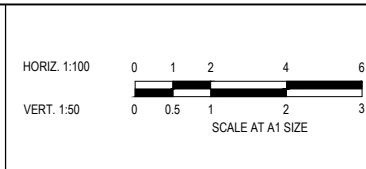
OFFSET



CH 79.762

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A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.						
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.	



Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
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 Approved: S.YOUNG
 Reg. No: PS3003698
 Date: 27.11.2023
 PS Number: PS19014R

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 www.beveridgewilliams.com.au

Project Details	SMITHS LANE STAGE 28 CITY OF CASEY
Drawing Title	ROAD CROSS SECTIONS MONOCOT AVENUE (SHEET 1 OF 2)

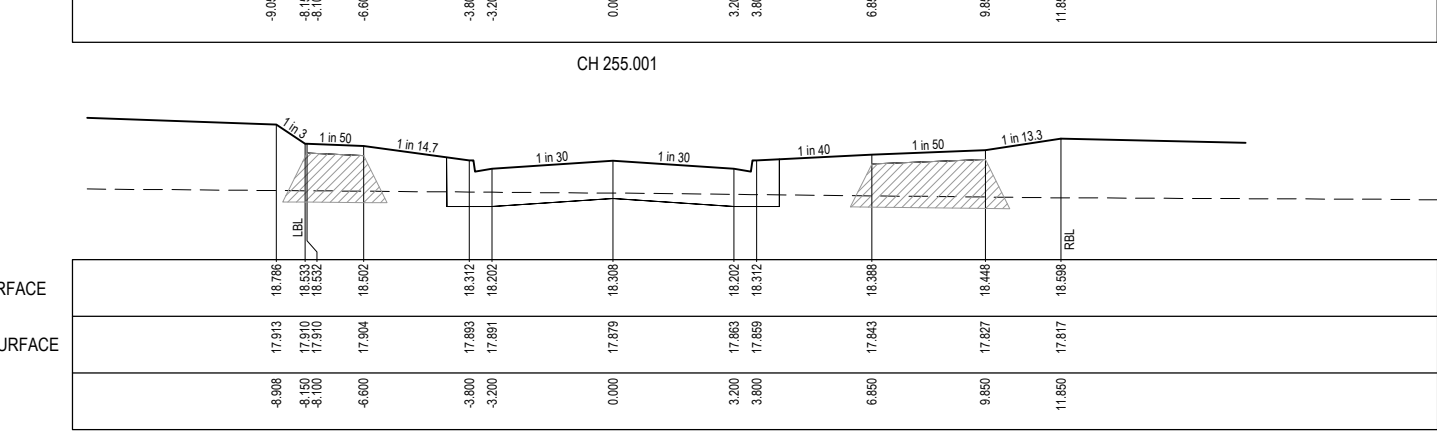
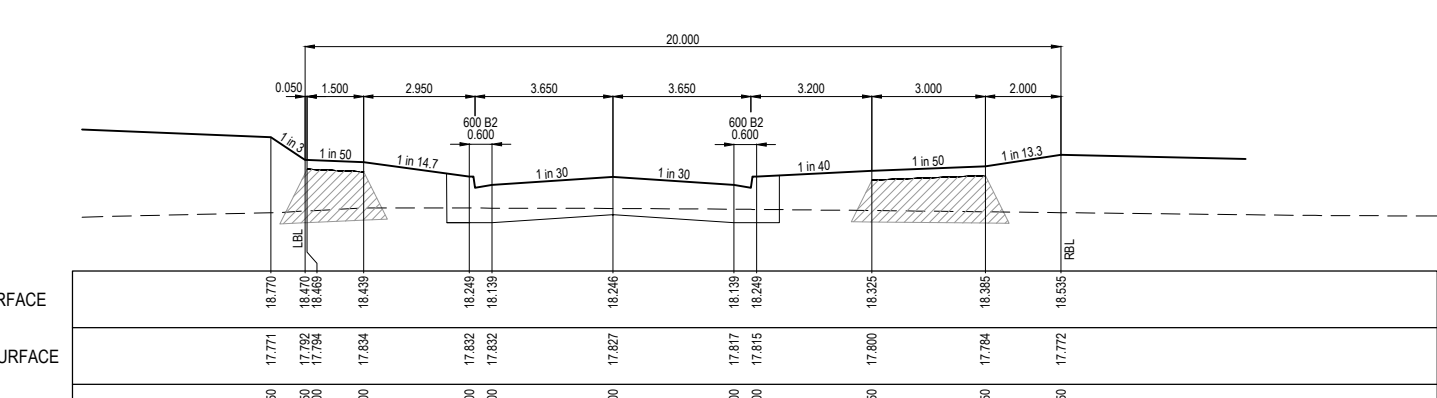
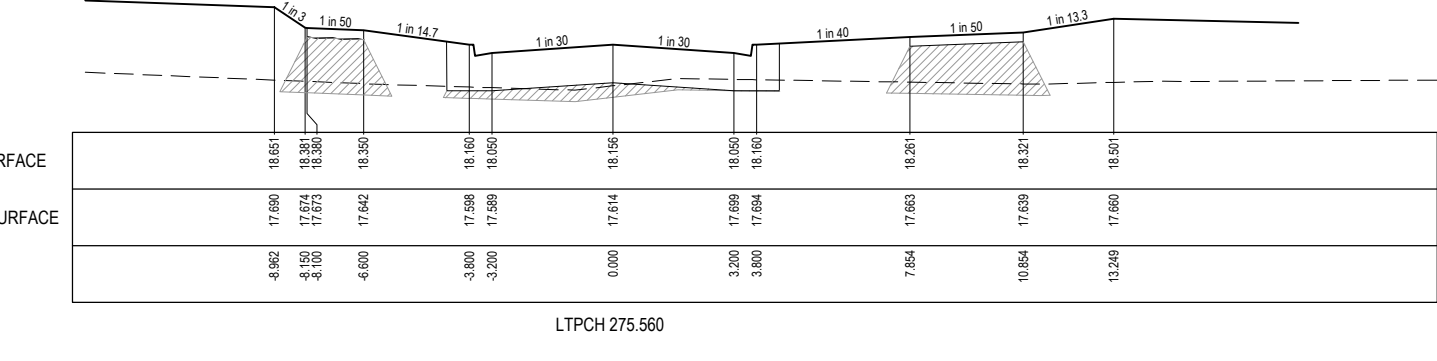
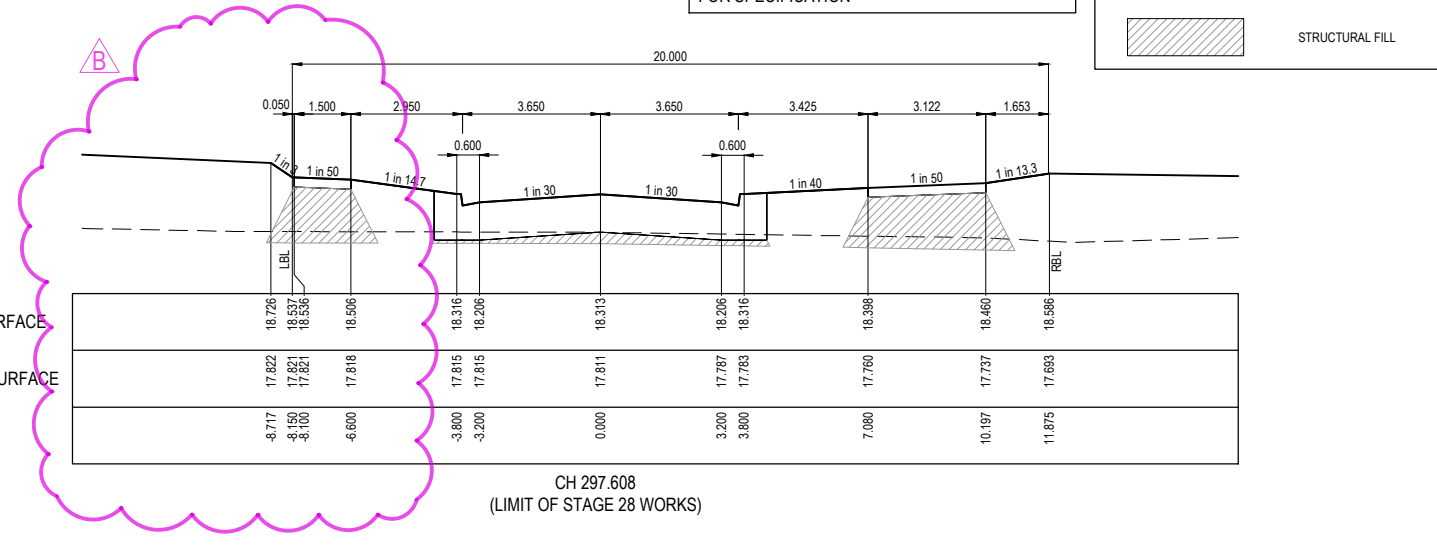
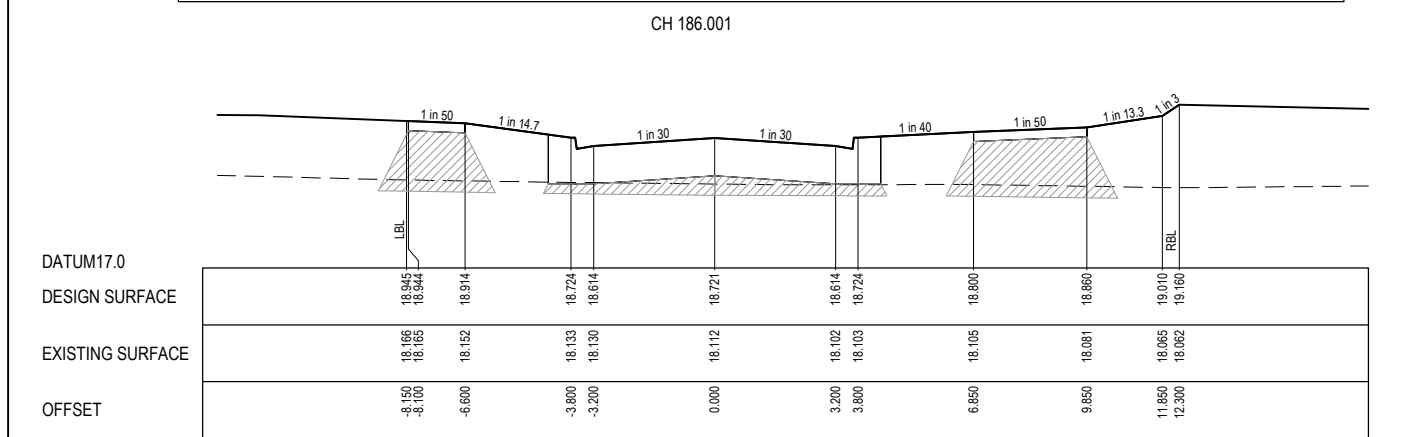
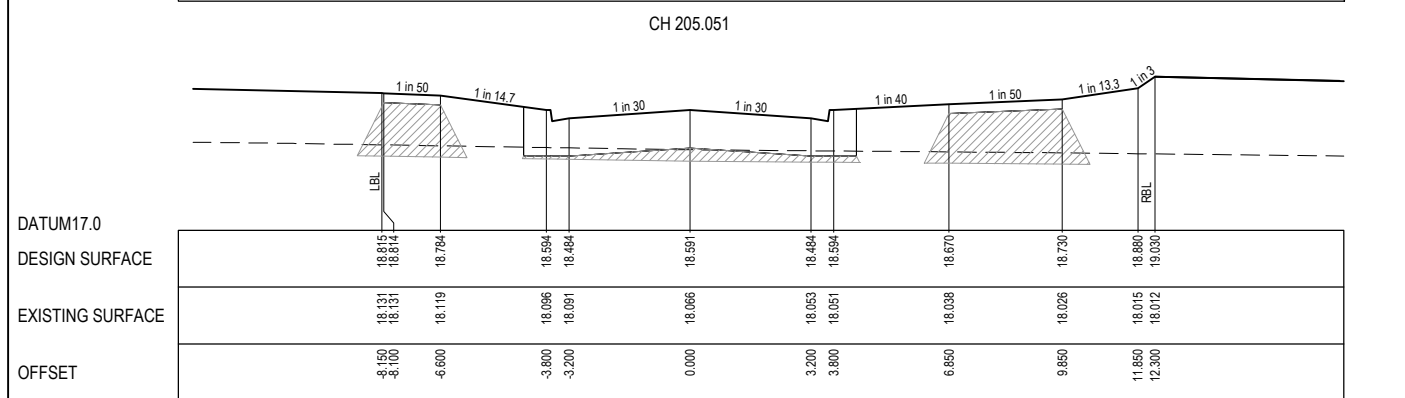
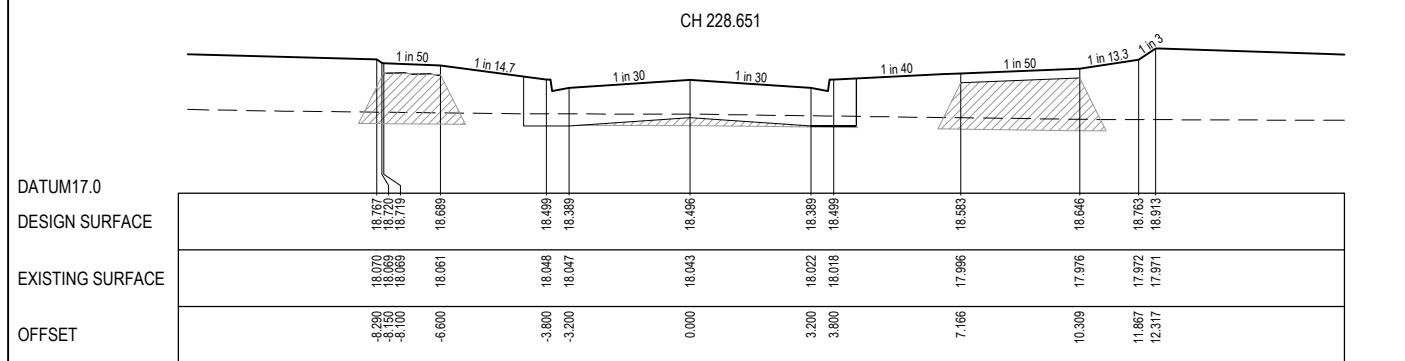
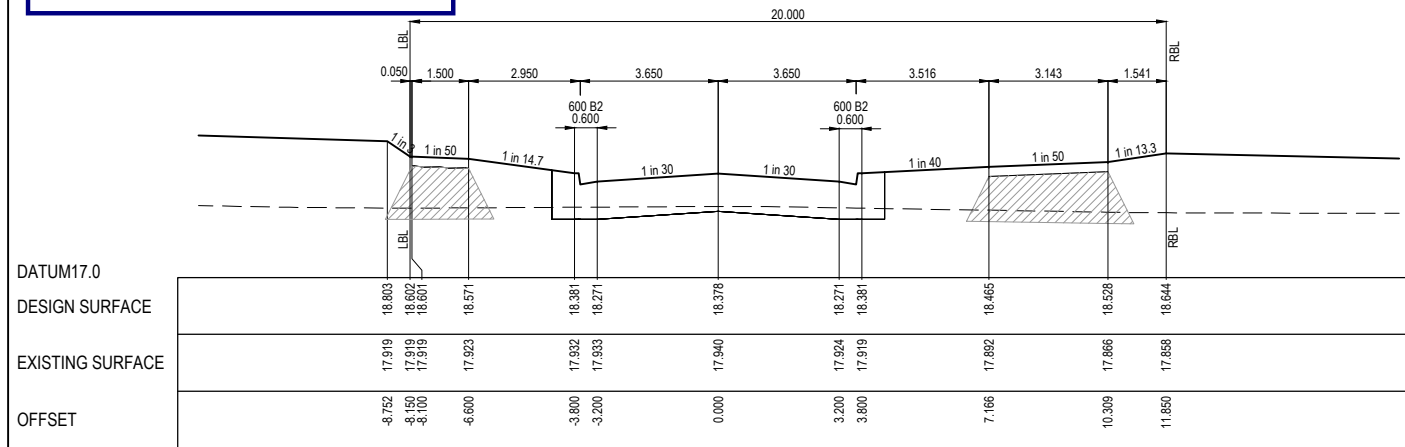
Sheet	16 of 39
Scale	1:100 H 1:50 V @ A1
Project Ref	1101438
Stage No	28
Drawing No	203
Rev	B

City of Casey

Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
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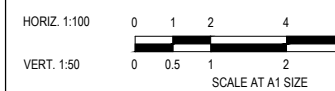
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	STRUCTURAL FILL



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Project Details: SMITHS LANE STAGE 28 CITY OF CASEY
 Drawing Title: ROAD CROSS SECTIONS MONOCOT AVENUE (SHEET 2 OF 2)

Sheet 17 of 39
Scale 1:100 H 1:50 V @ A1
Project Ref: 1101438
Stage No: 28
Drawing No: 204
Rev: B

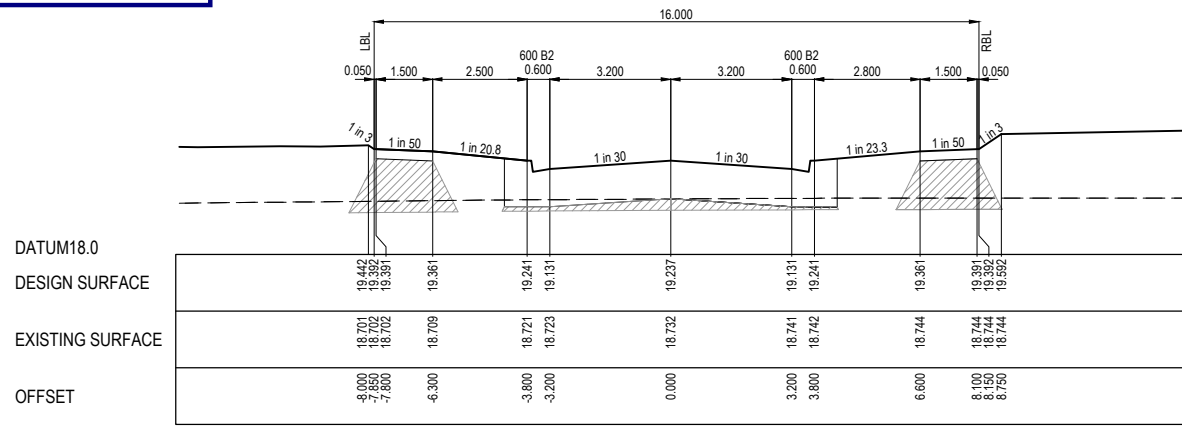
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City of Casey

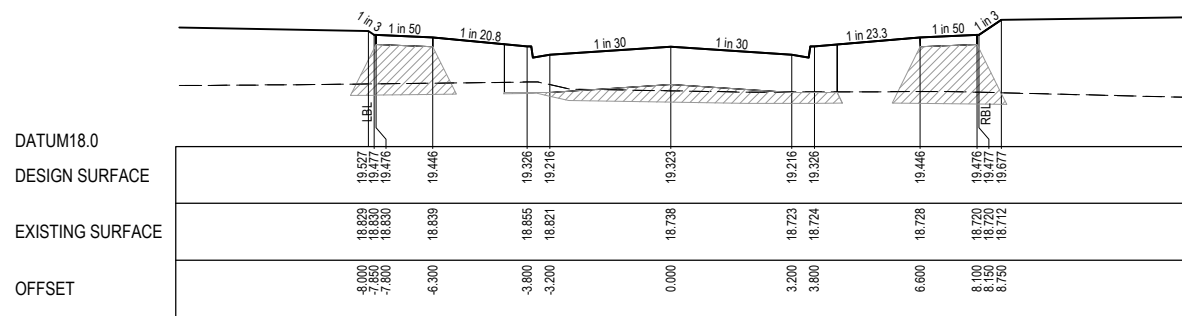
Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
 Date: **5/8/2024**
 Approval subject to below conditions on cover page

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

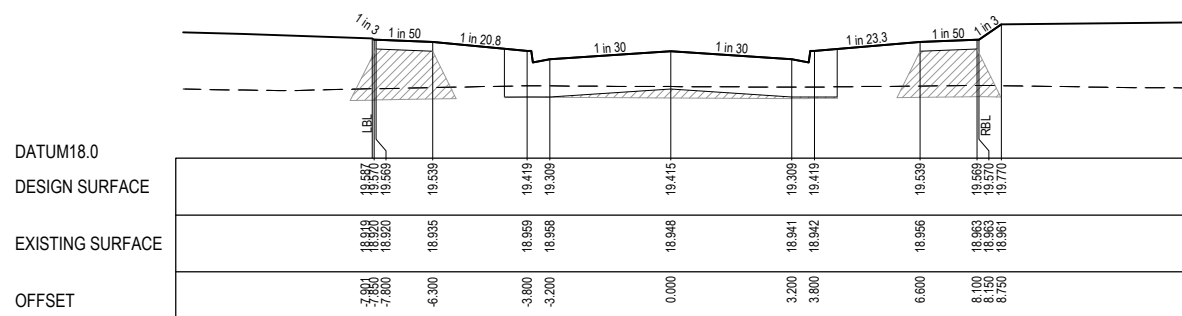
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	STRUCTURAL FILL



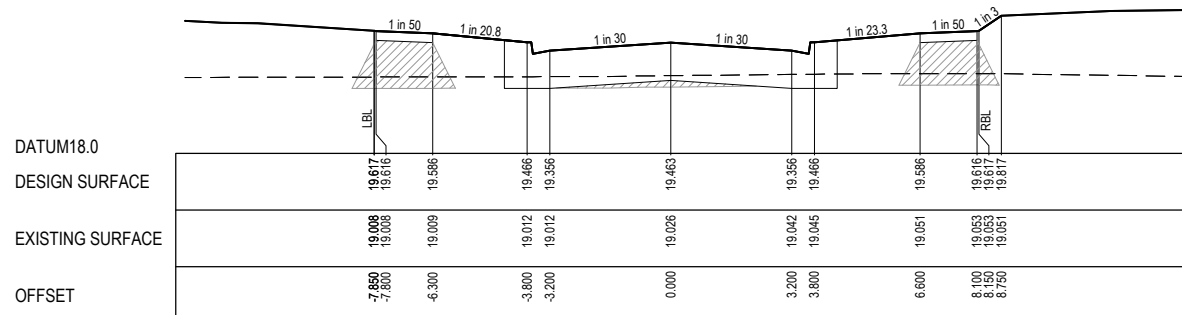
LTPCH 56.900



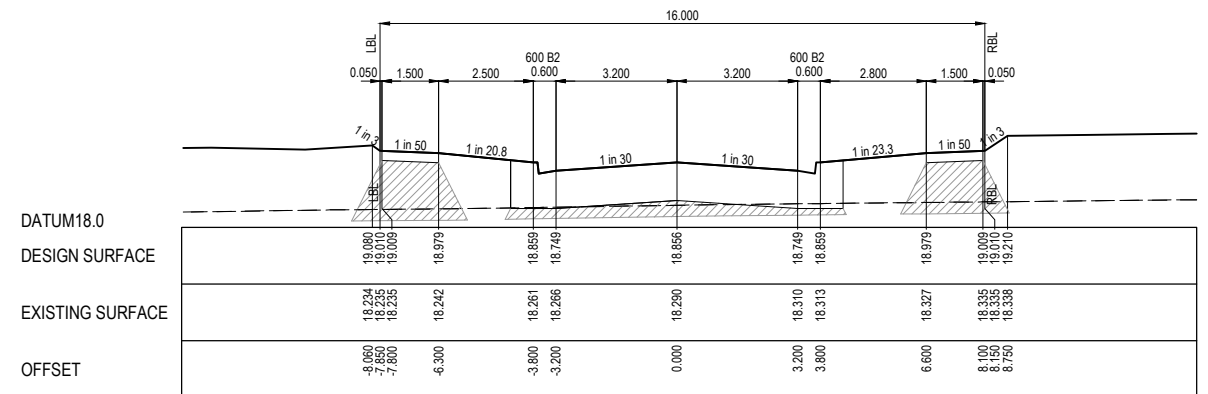
CH 39.850



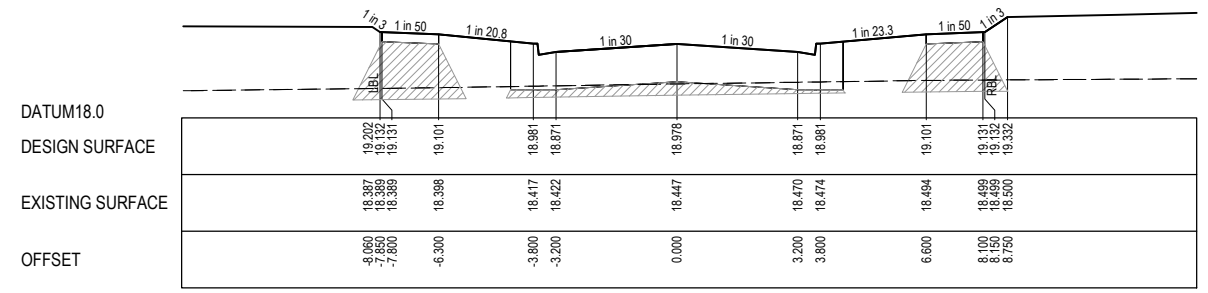
CH 21.350



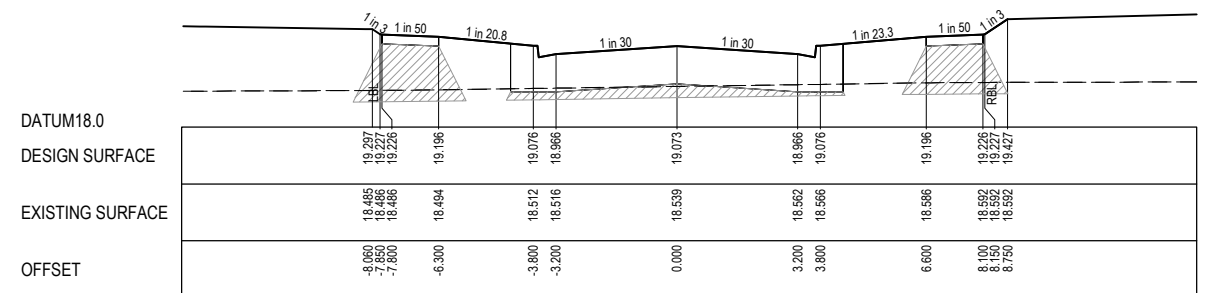
TPCH 11.800



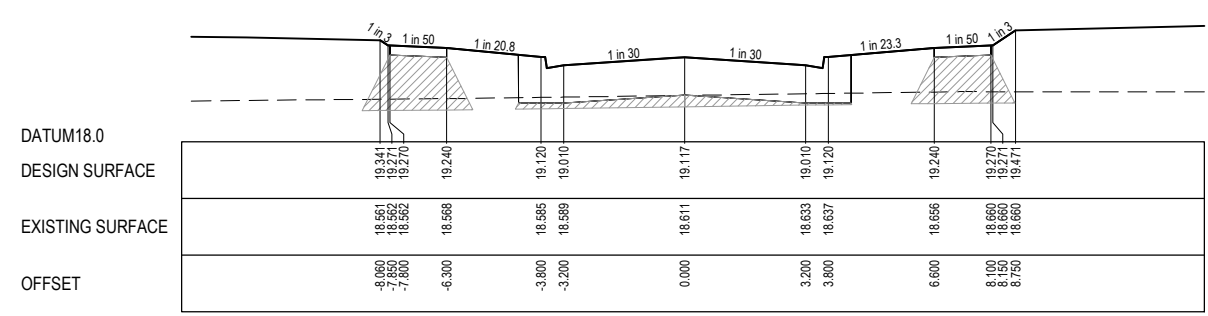
TPCH 133.200



CH 108.850



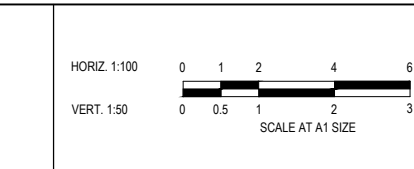
CH 89.850



CH 81.000

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B	NUMBER OF PAGES AMENDED	21.05.24	L.M.	S.Y.					
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Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No: PE3003608
 Date: 27.11.2023
 PS Number: PS919014R

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

Project Details: SMITHS LANE STAGE 28 CITY OF CASEY
 Drawing Title: ROAD CROSS SECTIONS ATWELL ROAD

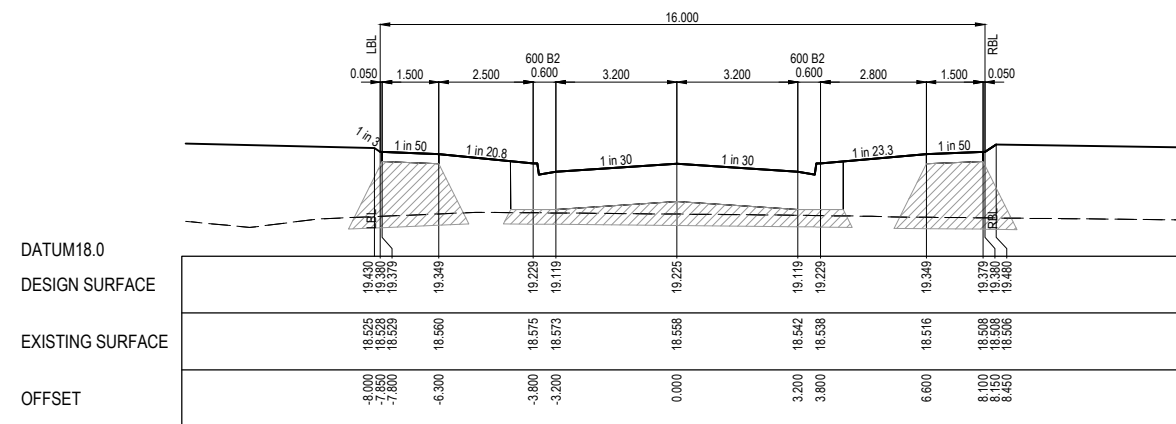
Sheet	18 of 39
Scale	1:100 H 1:50 V @ A1
Project Ref	1101438
Stage No	28
Drawing No	205
Rev	B

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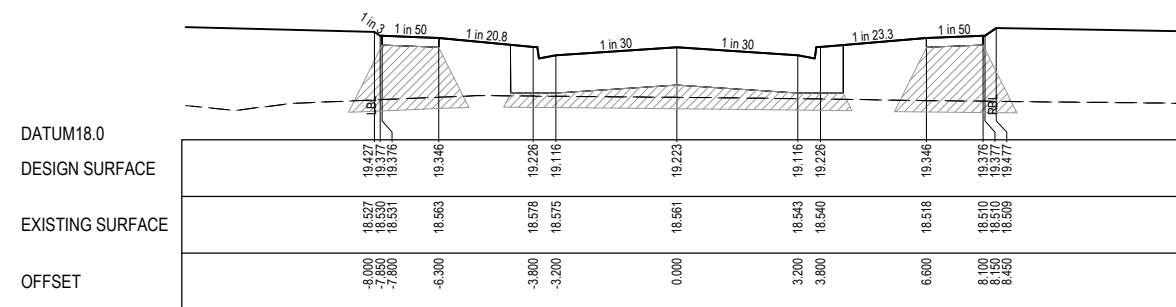
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

LEGEND

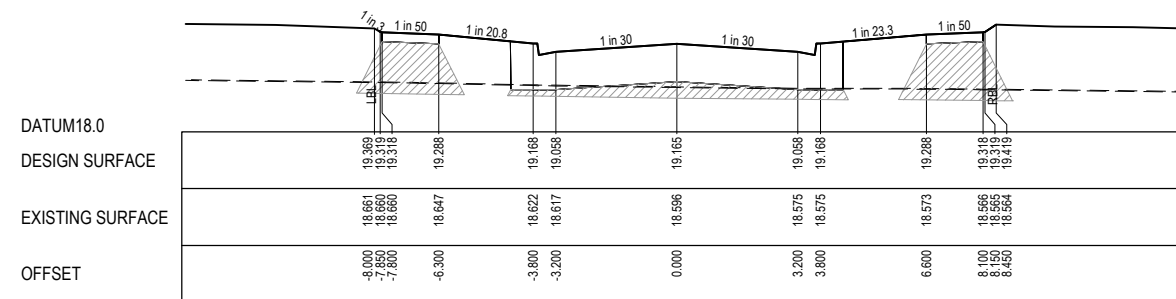
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 — DESIGN SURFACE
 [Hatched Box] STRUCTURAL FILL



CH 23.850



CH 23.350

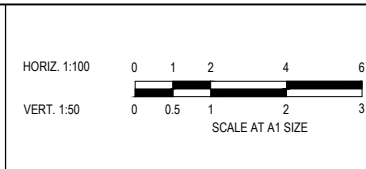


TPCH 11.800

City of Casey
 Approved By: Timothy Sinnappu
 Planning Ref: PA21-0704
 Council Ref: R6138
 SD&E Ref: SEng00200/23
 Date: 5/8/2024
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 Date: 19.10.2023
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 Approved: S.YOUNG
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 PS Number: PS919014R

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Project Details
 SMITHS LANE
 STAGE 28
 CITY OF CASEY

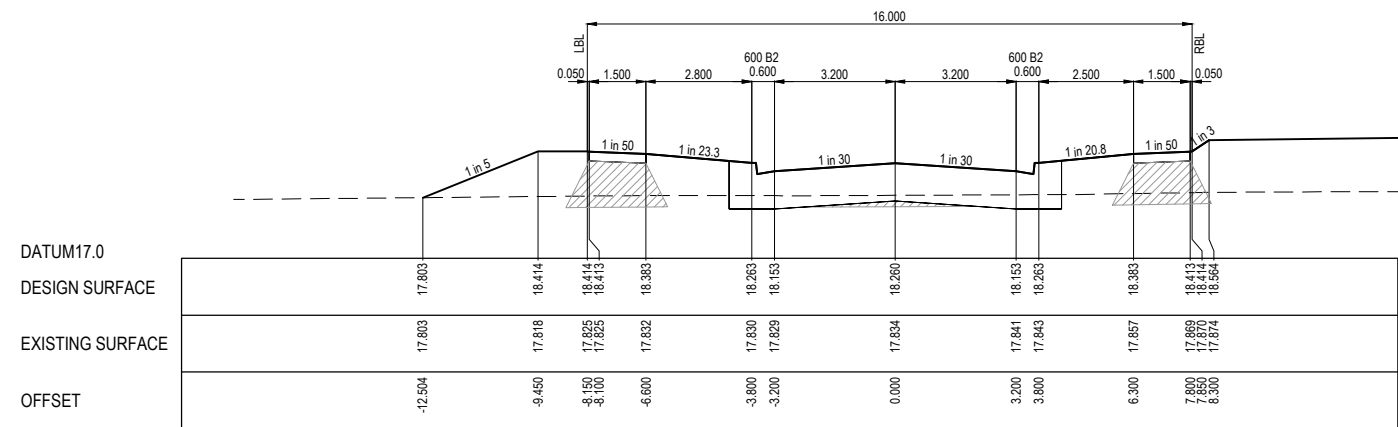
Drawing Title
 ROAD CROSS SECTIONS
 MODESTA AVENUE

Sheet 19 of 39	
Scale 1:100 H 1:50 V @ A1	
Project Ref 1101438	Stage No 28
Drawing No 206	Rev B

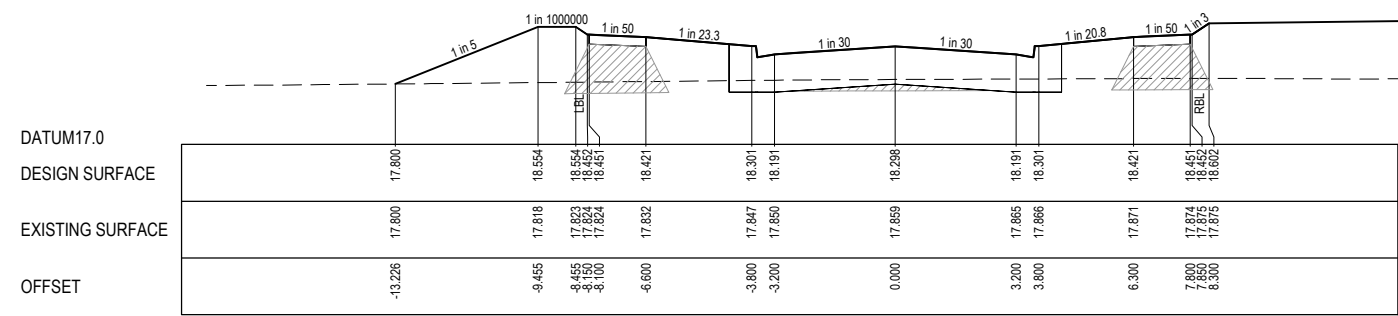
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	STRUCTURAL FILL

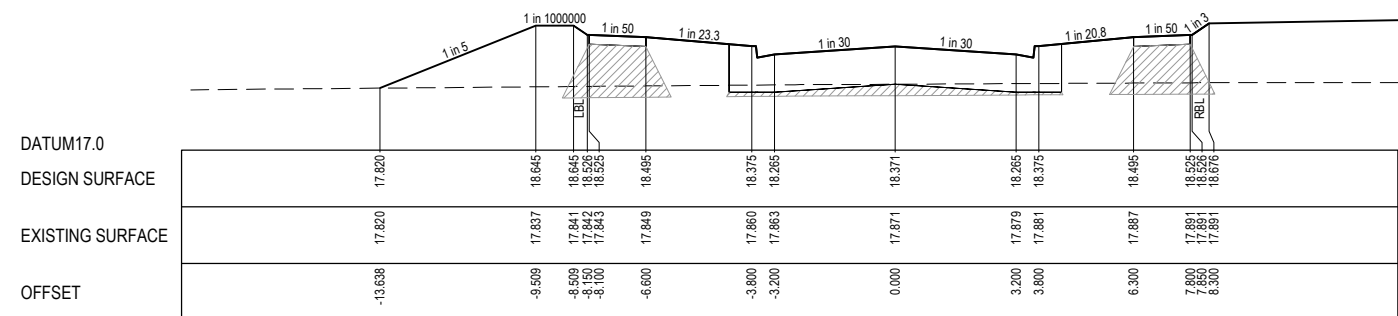
City of Casey
 Approved By: **Timothy Sinnappu**
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 Date: **5/8/2024**
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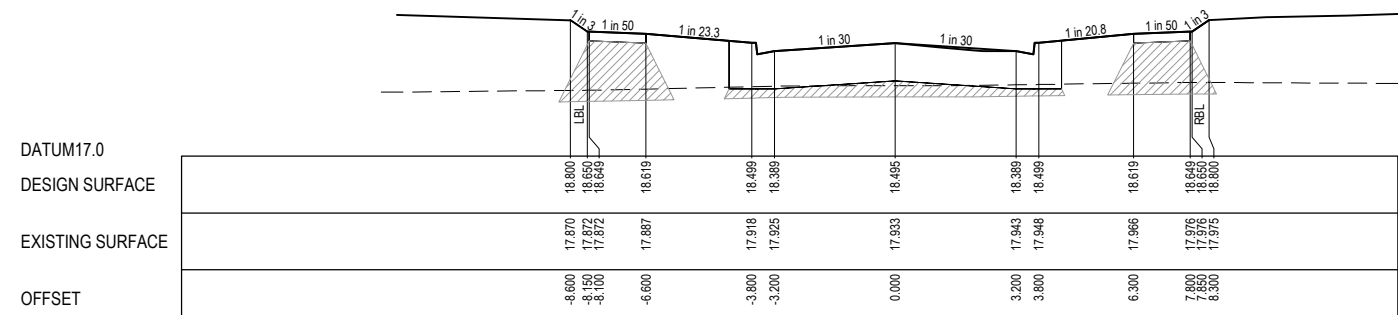
CH 43.850



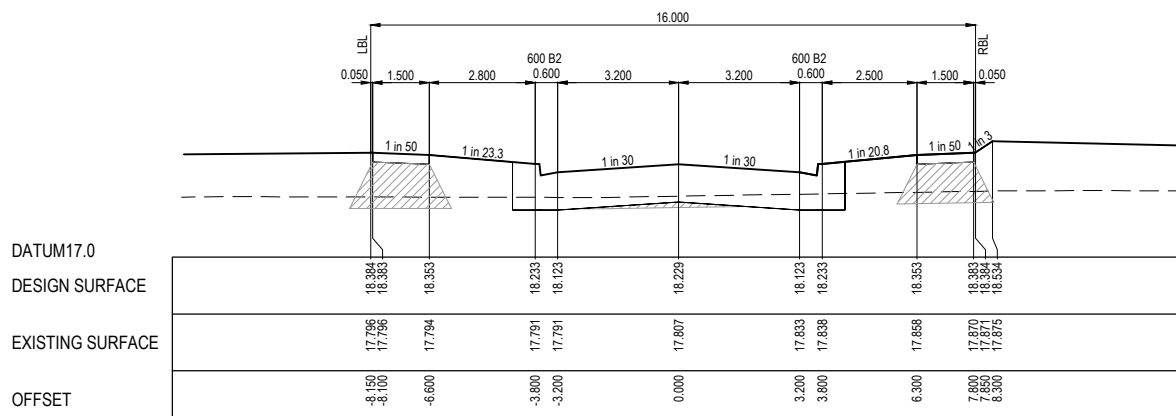
CH 39.000



CH 30.000



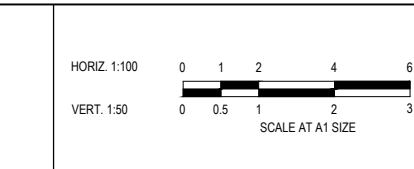
CH 14.850



CH 49.905

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 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No: F63003608
 Date: 27.11.2023
 PS Number: PS919014R


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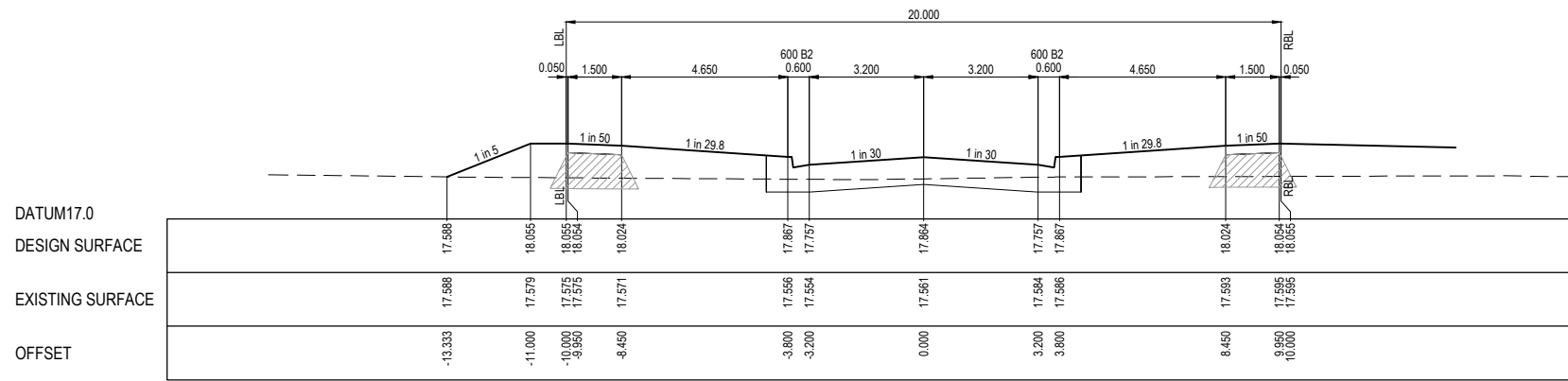
Project Details: SMITHS LANE STAGE 28 CITY OF CASEY
 Drawing Title: ROAD CROSS SECTIONS CARDWELL ROAD

Sheet	20 of 39
Scale	1:100 H 1:50 V @ A1
Project Ref	1101438
Stage No	28
Drawing No	207
Rev	B

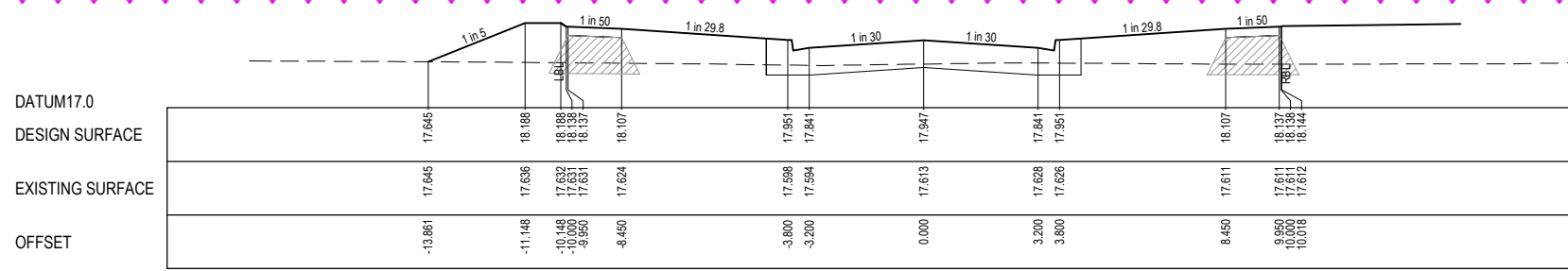
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STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

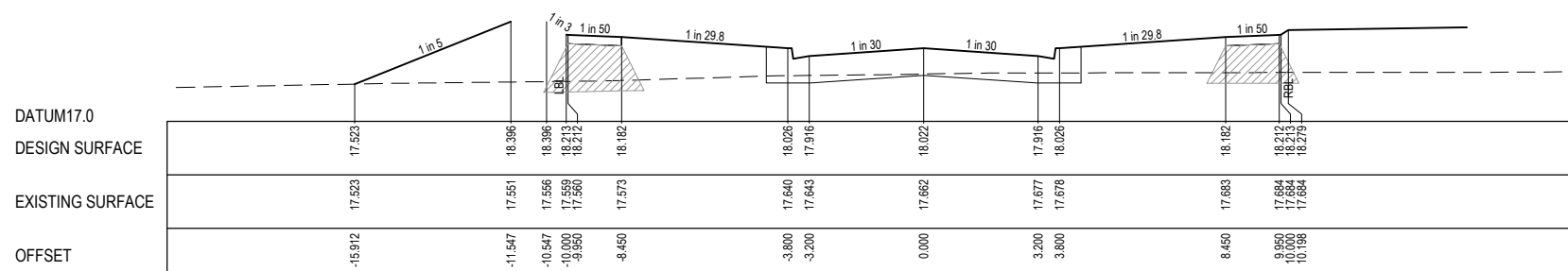
LEGEND	
---	EXISTING SURFACE
—	DESIGN SURFACE
	STRUCTURAL FILL



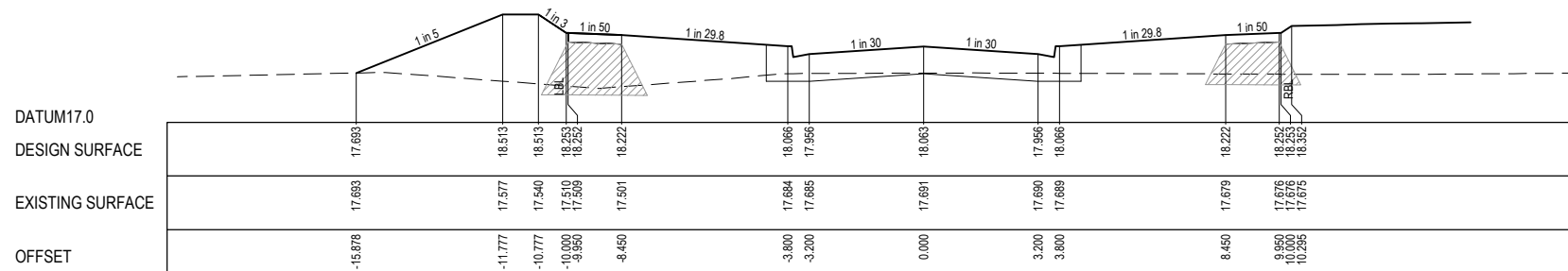
CH 56.672



CH 40.000



CH 25.000

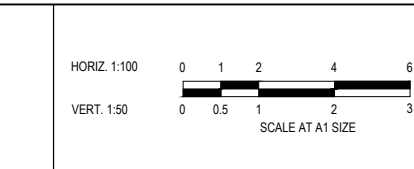


CH 16.925

City of Casey
 Approved By: Timothy Sinnappu
 Planning Ref: PA21-0704
 Council Ref: R6138
 SD&E Ref: SEng00200/23
 Date: 5/8/2024
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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
B	CROSS SECTIONS UPDATED	21.05.24	L.M.	S.Y.					
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Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No: PE3003606
 Date: 27.11.2023
 PS Number: PS919014R

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Project Details
 SMITHS LANE
 STAGE 28
 CITY OF CASEY

Drawing Title
 ROAD CROSS SECTIONS
 RAFFERTY DRIVE

Sheet	21 of 39
Scale	1:100 H 1:50 V @ A1
Project Ref	1101438
Stage No	28
Drawing No	208
Rev	B

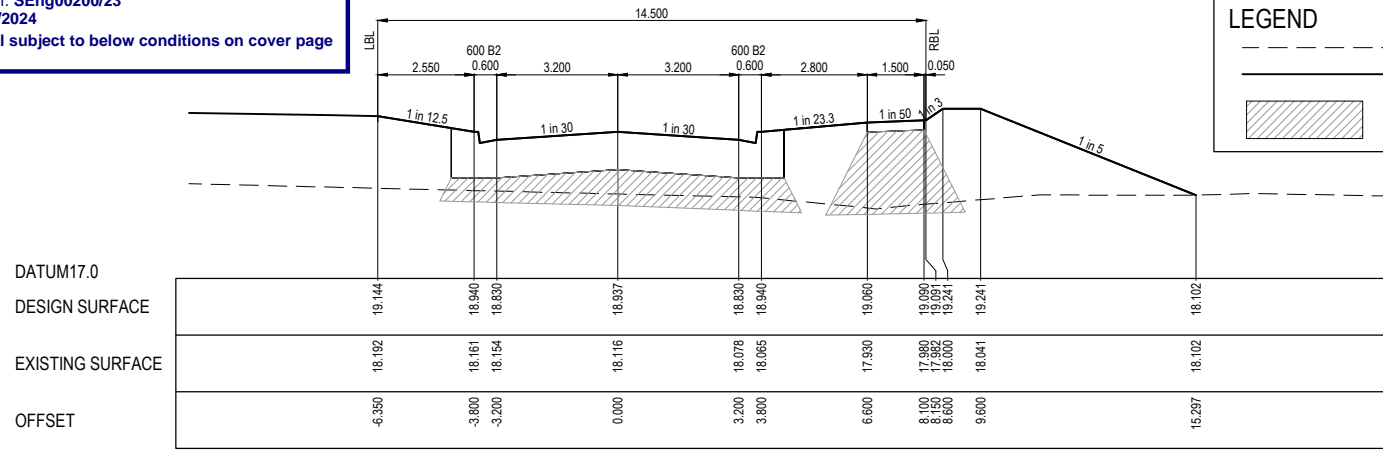
City of Casey

Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
 Date: **5/8/2024**
 Approval subject to below conditions on cover page

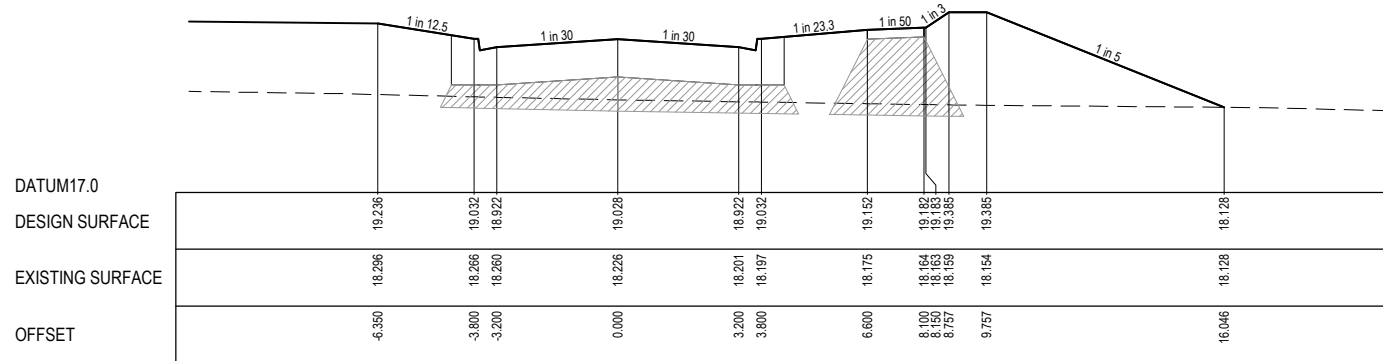
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

LEGEND

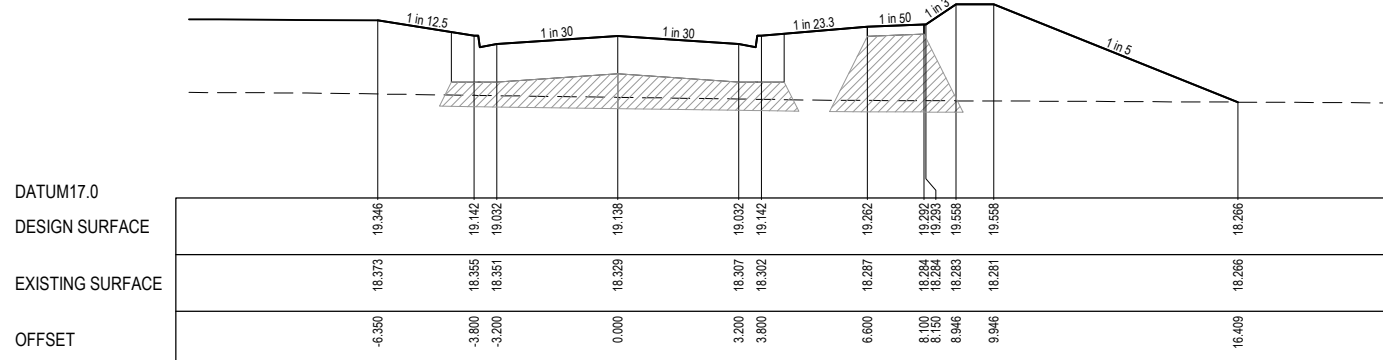
- EXISTING SURFACE
- DESIGN SURFACE
- ▨ STRUCTURAL FILL



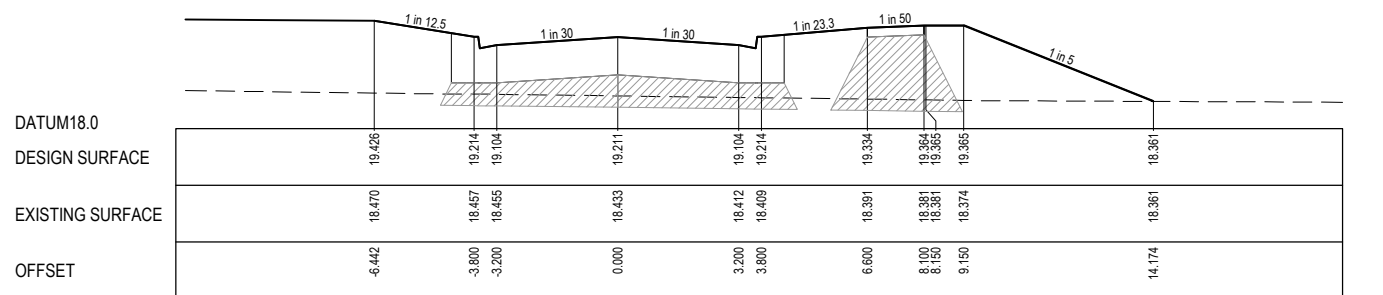
RTPCH 66.697



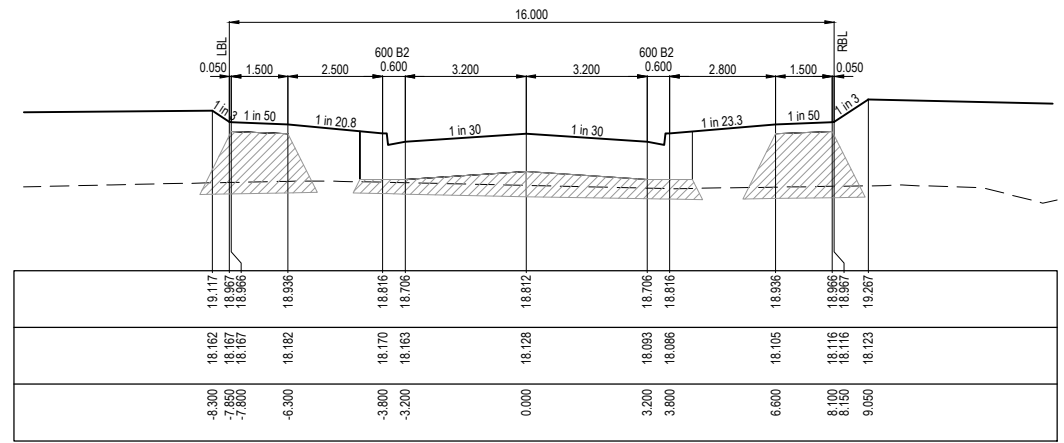
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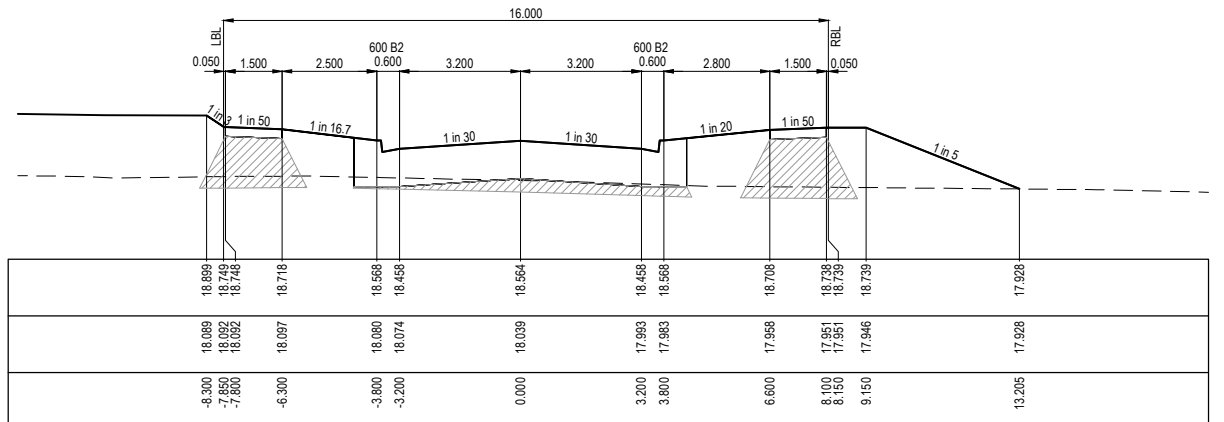
CH 30.000



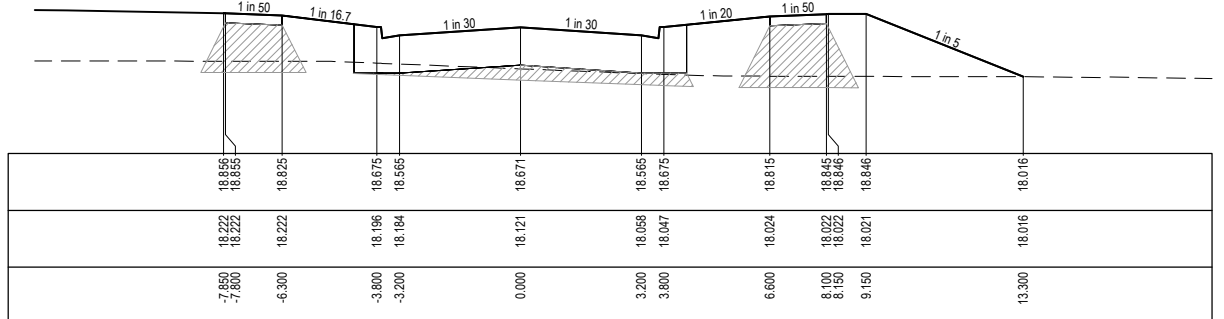
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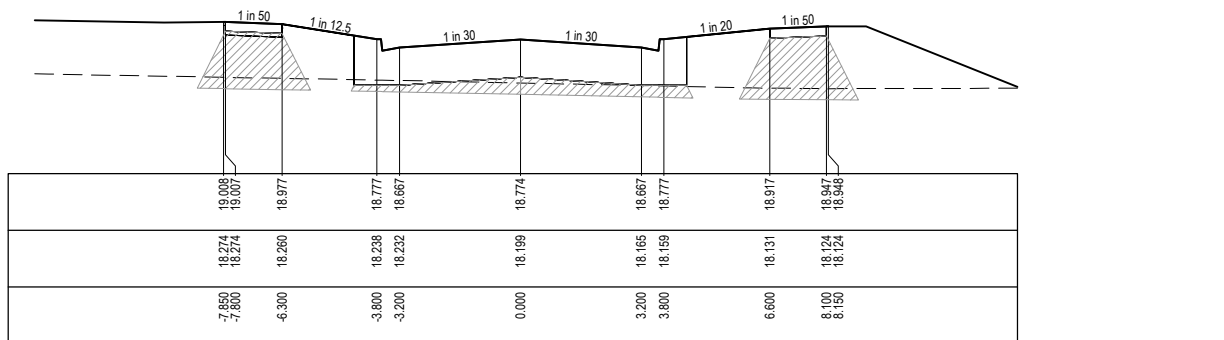
CH 16.760
HALISEND STREET - ROAD CROSS SECTIONS



CH 134.408
(LIMIT OF STAGE 28 WORKS)



CH 115.000

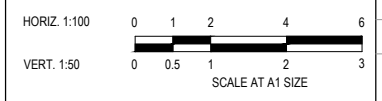


RTPCH 96.308

ZALE ROAD - ROAD CROSS SECTIONS

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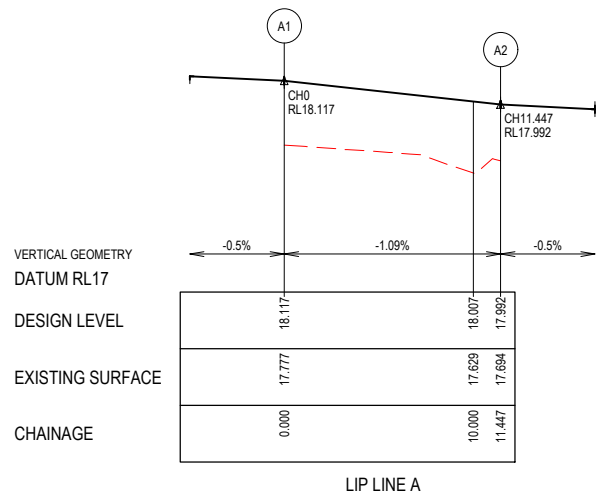
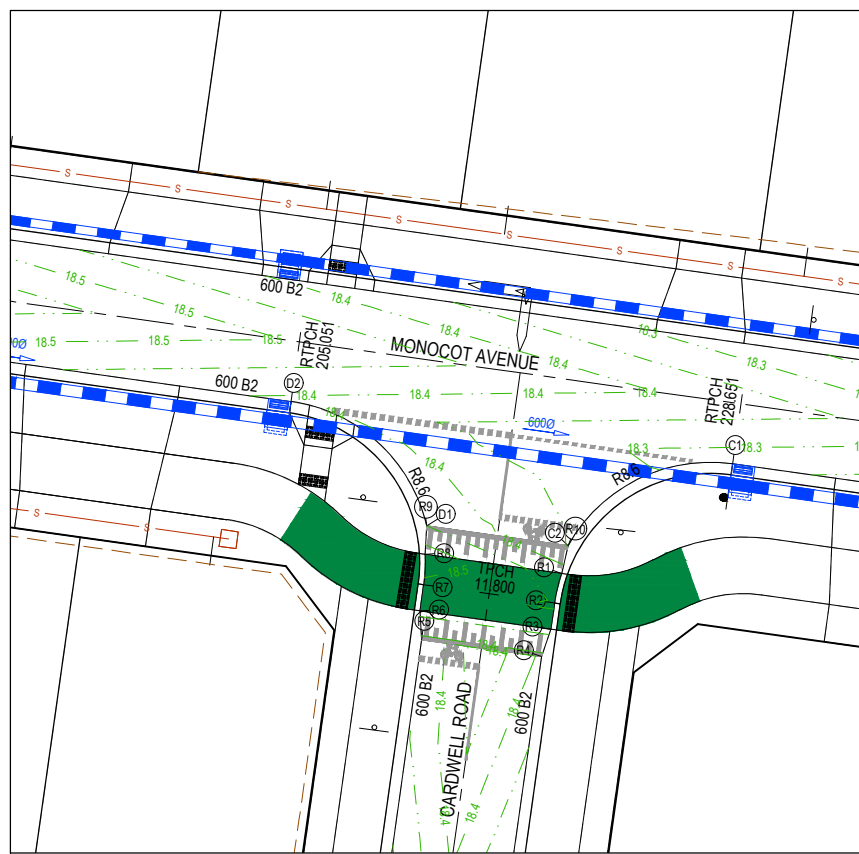
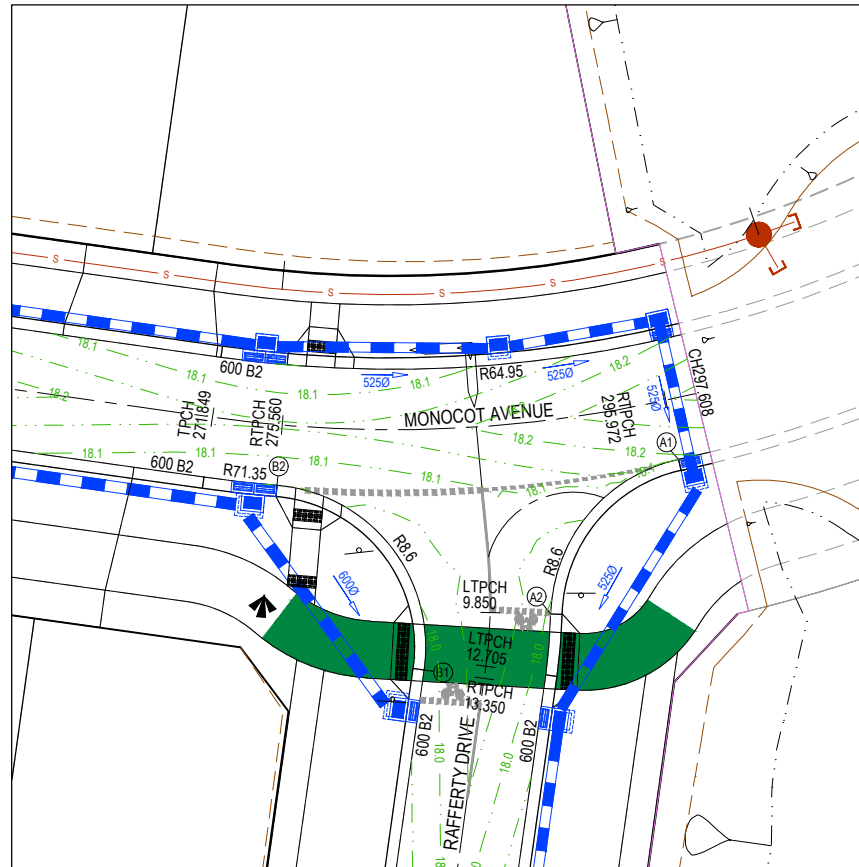
Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No: PS3003608
 Date: 27.11.2023
 PS Number: PS919014R

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Project Details
 SMITHS LANE
 STAGE 28
 CITY OF CASEY

Drawing Title
 ROAD CROSS SECTIONS
 ZALE ROAD & HALISEND STREET

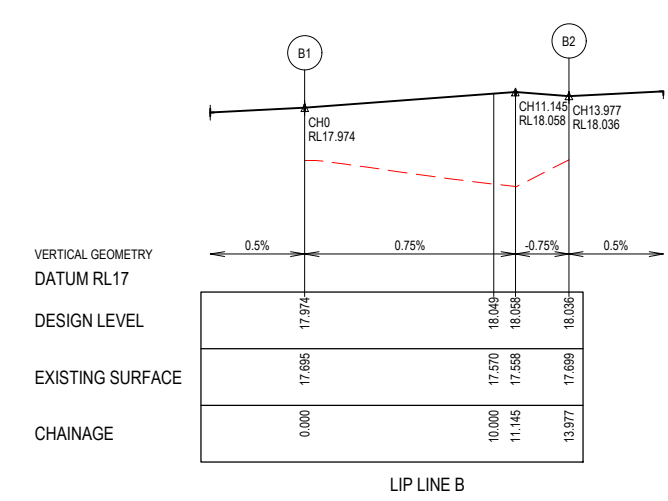
Sheet	22 of 39
Scale	1:100 H 1:50 V @ A1
Project Ref	1101438
Stage No	28
Drawing No	209
Rev	B



ALIGNMENT A

Point no	Easting	Northing	RL
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A2	9484.955	81048.551	17.992

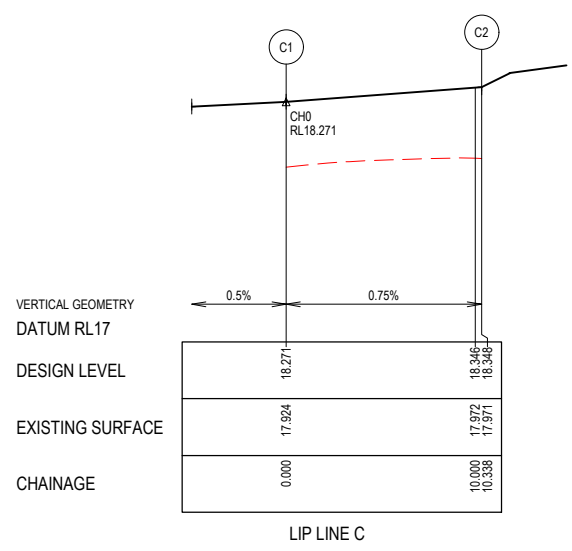
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A1 - A2	76.263	8.600	11.447	1.835	1.364	2.809	2.501	2.862	18.054



ALIGNMENT B

Point no	Easting	Northing	RL
B1	9478.263	81045.596	17.974
B2	9470.477	81055.361	18.036

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
B1 - B2	93.120	8.600	13.977	2.687	1.987	3.399	2.845	3.494	18.027



ALIGNMENT C

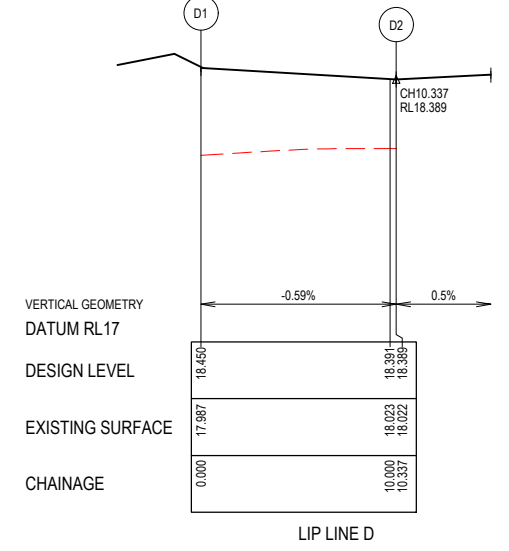
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C1	9423.839	81061.807	18.271
C2	9415.129	81057.476	18.348

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
C1 - C2	68.873	8.600	10.338	1.507	1.122	2.546	2.318	2.584	

RAISED BICYCLE PATH R

Point no	Easting	Northing	RL
R1	9414.800	81056.008	18.424
R2	9414.423	81054.445	18.446
R3	9414.228	81053.059	18.465
R4	9413.722	81051.615	18.390
R5	9407.385	81052.506	18.390
R6	9407.296	81054.033	18.465
R7	9407.491	81055.419	18.493
R8	9407.559	81057.026	18.525
R9	9407.647	81058.528	18.450
R10	9415.129	81057.476	18.349

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
R1 - R2	11.113	8.300	1.610	0.039	0.029	0.402	0.401	0.402	18.435
R7 - R8	11.116	8.300	1.610	0.039	0.029	0.402	0.401	0.403	18.509



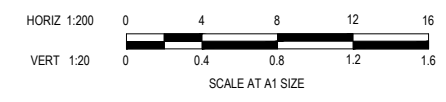
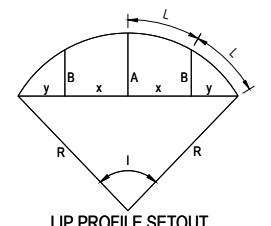
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Point no	Easting	Northing	RL
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D2	9400.468	81065.090	18.389

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
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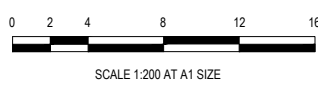
City of Casey
 Approved By: Timothy Sinnappu
 Planning Ref: PA21-0704
 Council Ref: R6138
 SD&E Ref: SEng00200/23
 Date: 5/8/2024
 Approval subject to below conditions on cover page

- 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



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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
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 Reg. No: FE0003608
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Project Details
**SMITHS LANE
 STAGE 28
 CITY OF CASEY**

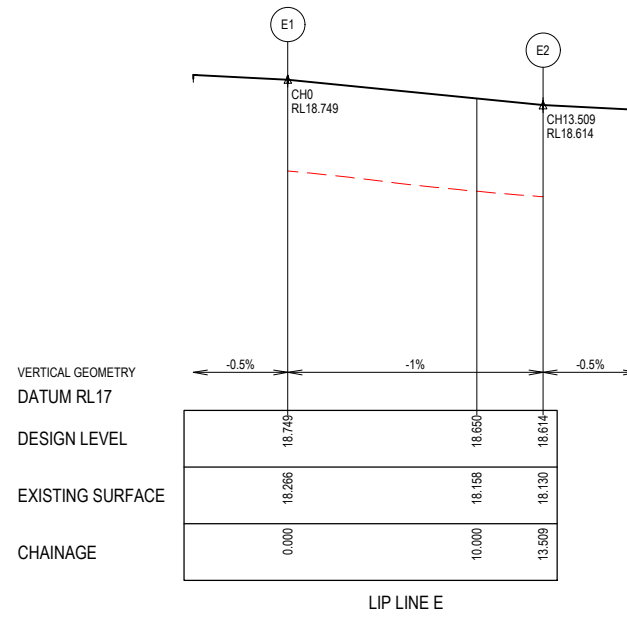
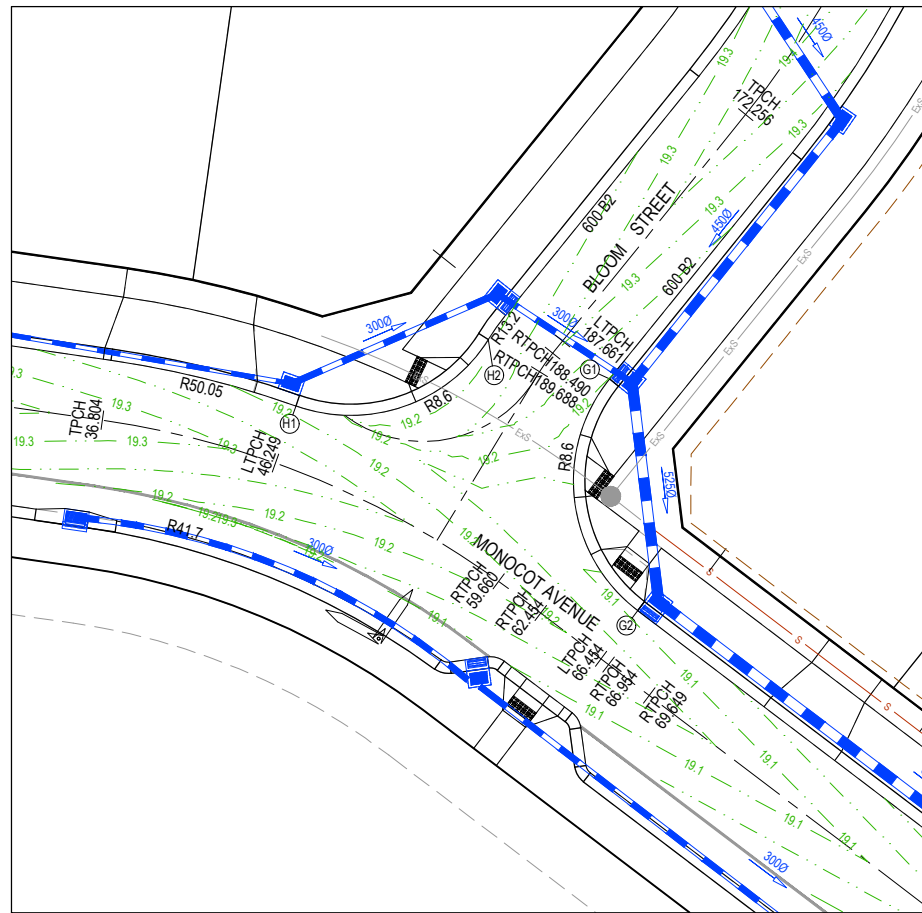
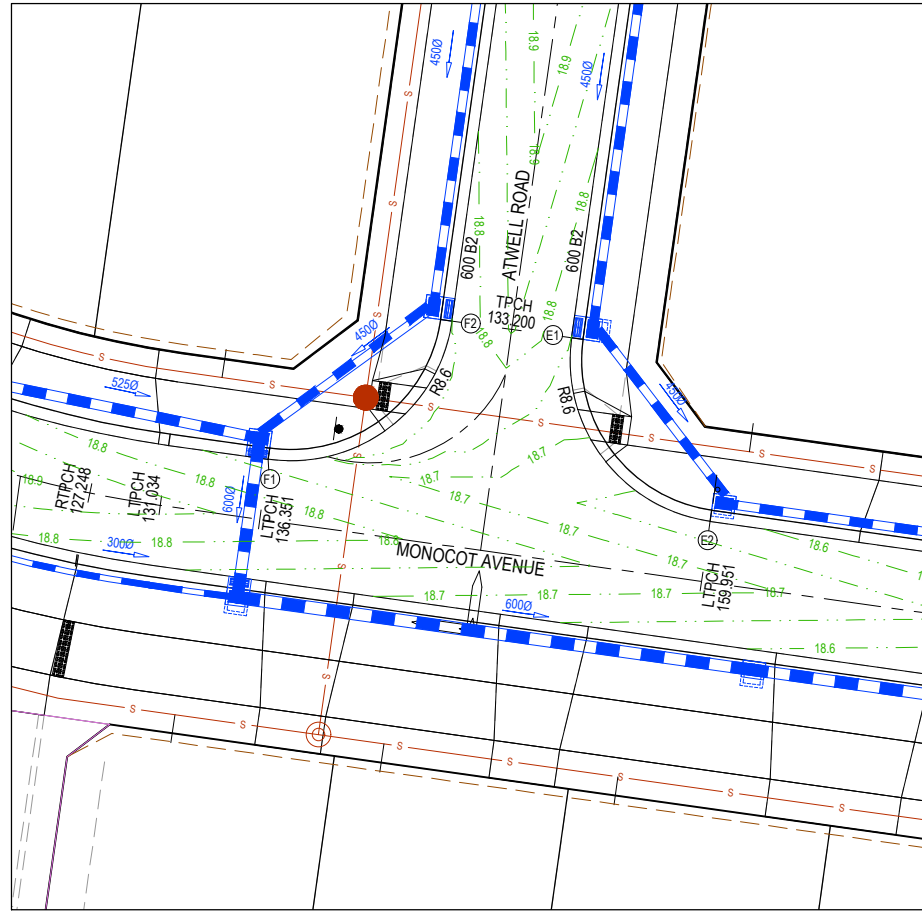
Drawing Title
**INTERSECTION DETAILS
 (SHEET 1 OF 4)**

Sheet **23** of 39

Scale: **1:200 @ A1**

Project Ref: **1101438** Stage No: **28** Drawing No: **300** Rev: **B**

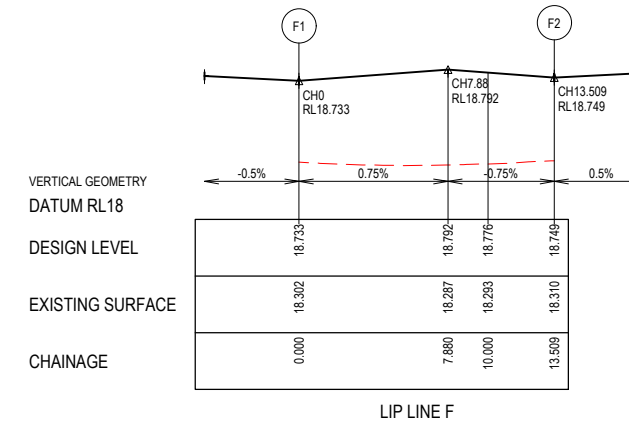
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ALIGNMENT E

Point no	Easting	Northing	RL
E1	9349.377	81087.416	18.749
E2	9356.697	81077.703	18.614

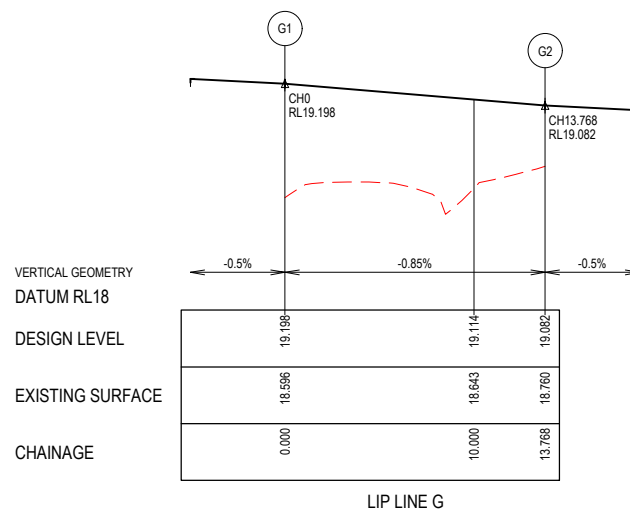
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
E1 - E2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	18.682



ALIGNMENT F

Point no	Easting	Northing	RL
F1	9333.327	81080.986	18.733
F2	9343.040	81088.306	18.749

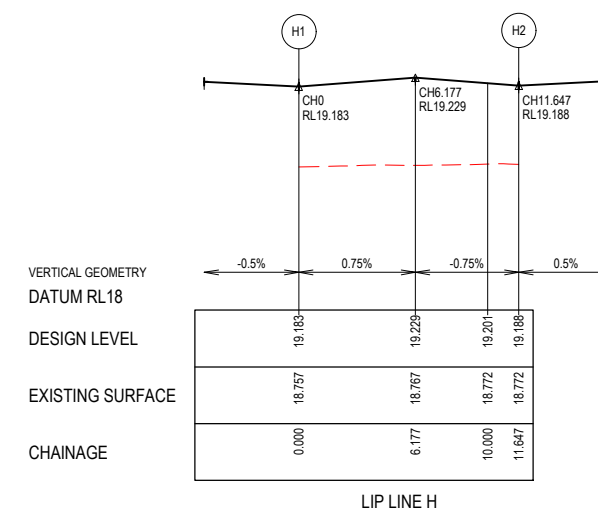
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
F1 - F2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	18.783



ALIGNMENT G

Point no	Easting	Northing	RL
G1	9273.184	81125.770	19.198
G2	9274.667	81113.515	19.082

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
G1 - G2	91.728	8.600	13.768	2.611	1.932	3.351	2.821	3.442	19.140



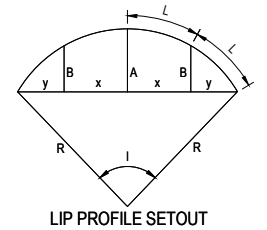
ALIGNMENT H

Point no	Easting	Northing	RL
H1	9256.584	81124.338	19.183
H2	9266.768	81127.864	19.188

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
H1 - H2	77.599	8.600	11.647	1.898	1.409	2.857	2.532	2.912	19.227

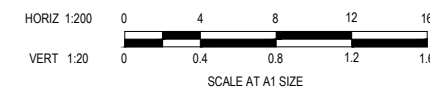
City of Casey

Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
 Date: **5/8/2024**
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LEGEND

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
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- LIMIT OF WORKS
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FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
B	NUMBER OF PAGES AMENDED	21.05.24		L.M.	S.Y.				
A	ISSUED FOR CONSTRUCTION	08.01.24		B.P.	S.Y.				



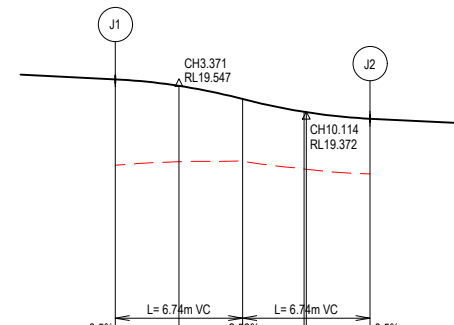
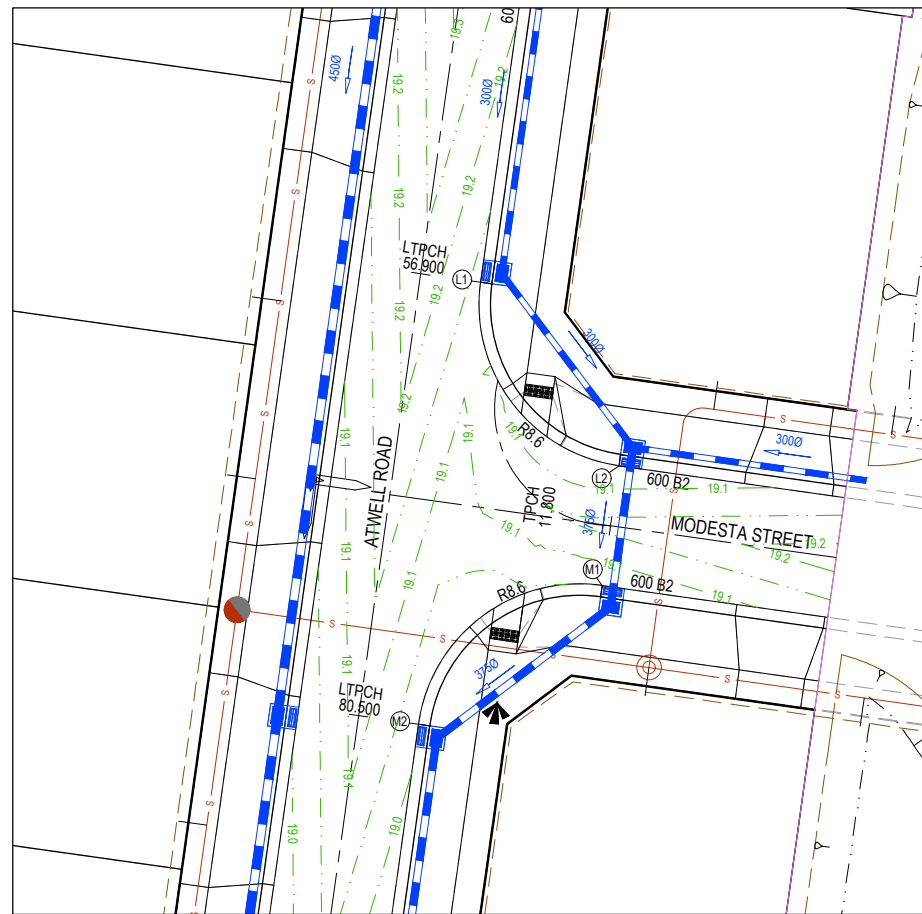
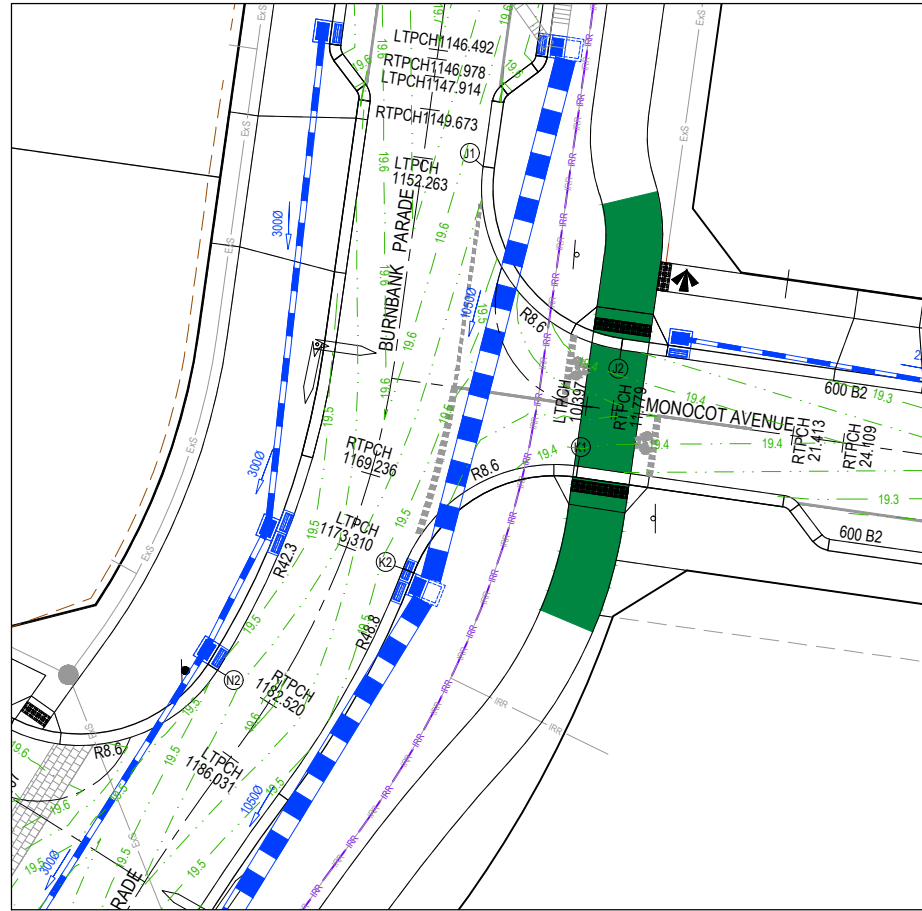
Designed: B.PAPPALARDO 19.10.2023
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY 24.11.2023
 Date: 24.11.2023
 Approved: S.YOUNG 27.11.2023
 Date: 27.11.2023
 PS Number: PS19014R

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Project Details: SMITHS LANE STAGE 28 CITY OF CASEY
 Drawing Title: INTERSECTION DETAILS (SHEET 2 OF 4)

Sheet **24** of 39
 Scale: 1:200 @ A1
 Project Ref: 1101438 Stage No: 28 Drawing No: 301 Rev: B

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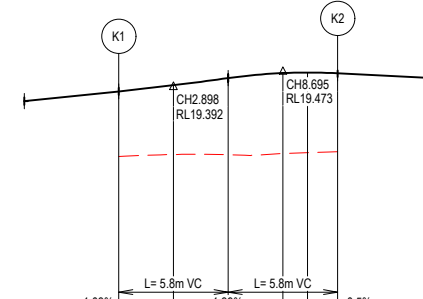


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DESIGN LEVEL	19.563	19.529	19.459	19.392	19.397	19.355
EXISTING SURFACE	19.109	19.128	19.130	19.088	19.088	19.083
CHAINAGE	0.000	3.371	6.743	10.000	10.114	13.486

ALIGNMENT J

Point no	Easting	Northing	RL
J1	9214.737	81140.020	19.563
J2	9222.034	81130.310	19.355

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
J1 - J2	89.848	8.600	13.486	2.511	1.858	3.286	2.787	3.371	19.459

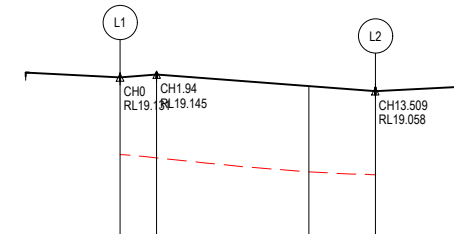


VERTICAL GEOMETRY DATUM RL18	19.362	19.395	19.432	19.459	19.462	19.458
DESIGN LEVEL	19.362	19.395	19.432	19.459	19.462	19.458
EXISTING SURFACE	19.018	19.028	19.027	19.033	19.038	19.043
CHAINAGE	0.000	2.886	5.797	8.685	10.000	11.594

ALIGNMENT K

Point no	Easting	Northing	RL
K1	9219.759	81124.171	19.362
K2	9210.506	81118.726	19.458

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
K1 - K2	77.243	8.600	11.594	1.881	1.397	2.844	2.524	2.886	19.432

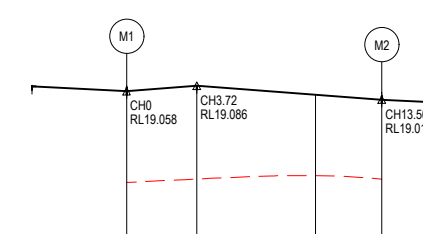


VERTICAL GEOMETRY DATUM RL18	19.131	19.145	19.085	19.058
DESIGN LEVEL	19.131	19.145	19.085	19.058
EXISTING SURFACE	18.723	18.705	18.632	18.617
CHAINAGE	0.000	1.940	10.000	13.509

ALIGNMENT L

Point no	Easting	Northing	RL
L1	9359.993	81162.974	19.131
L2	9367.313	81153.261	19.058

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
L1 - L2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	19.109

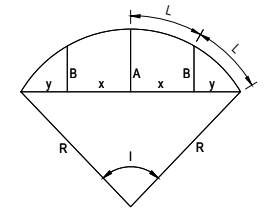


VERTICAL GEOMETRY DATUM RL18	19.058	19.086	19.039	19.013
DESIGN LEVEL	19.058	19.086	19.039	19.013
EXISTING SURFACE	18.575	18.593	18.611	18.593
CHAINAGE	0.000	3.720	10.000	13.509

ALIGNMENT M

Point no	Easting	Northing	RL
M1	9366.422	81146.923	19.058
M2	9356.709	81139.603	19.013

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
M1 - M2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	19.064



LIP PROFILE SETOUT

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B	NUMBER OF PAGES AMENDED	21.05.24	L.M.	S.Y.					
A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.					



Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
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 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No: PS2003608
 Date: 27.11.2023
 PS Number: PS919014R

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Project Details
SMITHS LANE
STAGE 28
CITY OF CASEY
 Drawing Title
INTERSECTION DETAILS
(SHEET 3 OF 4)

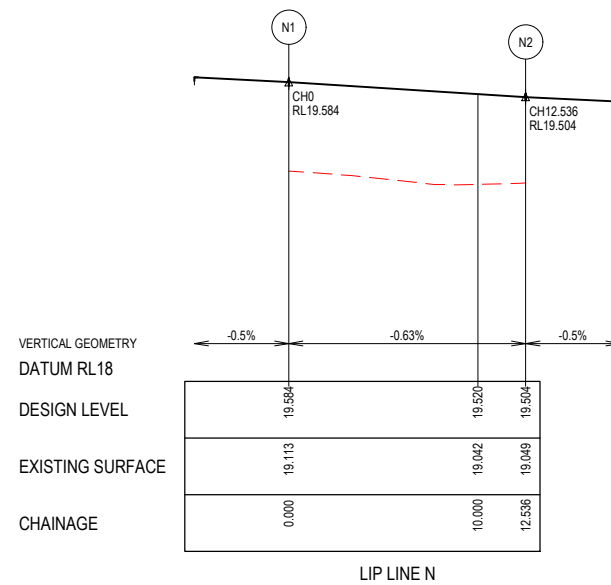
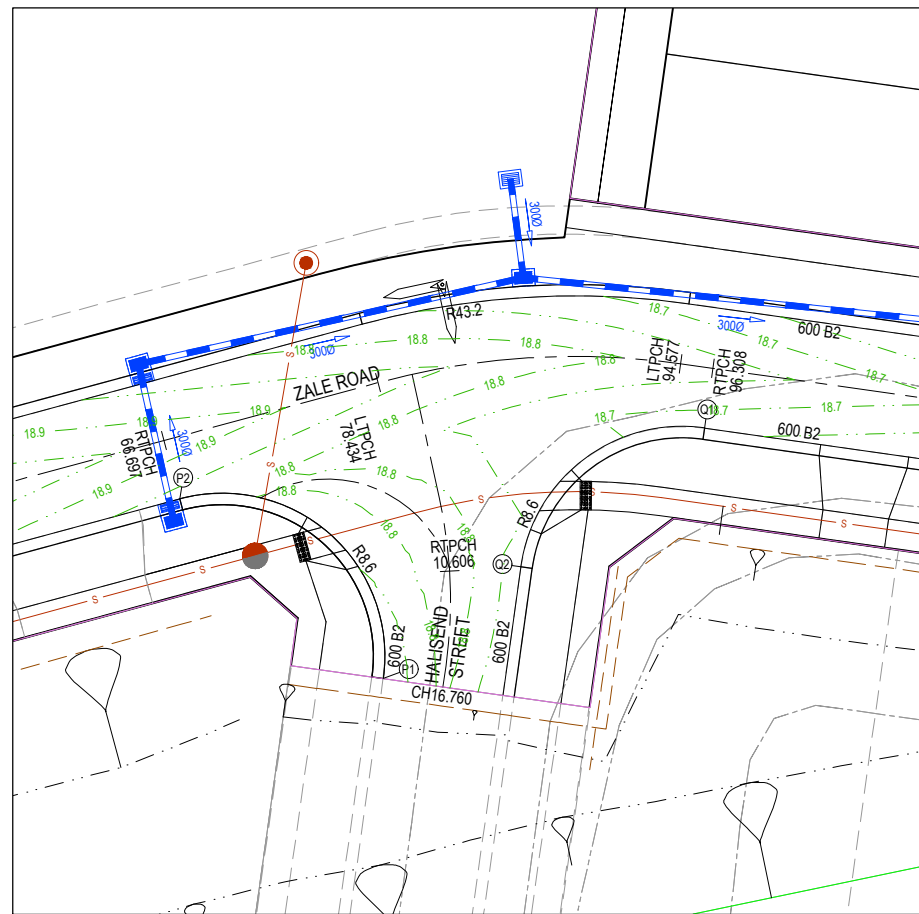
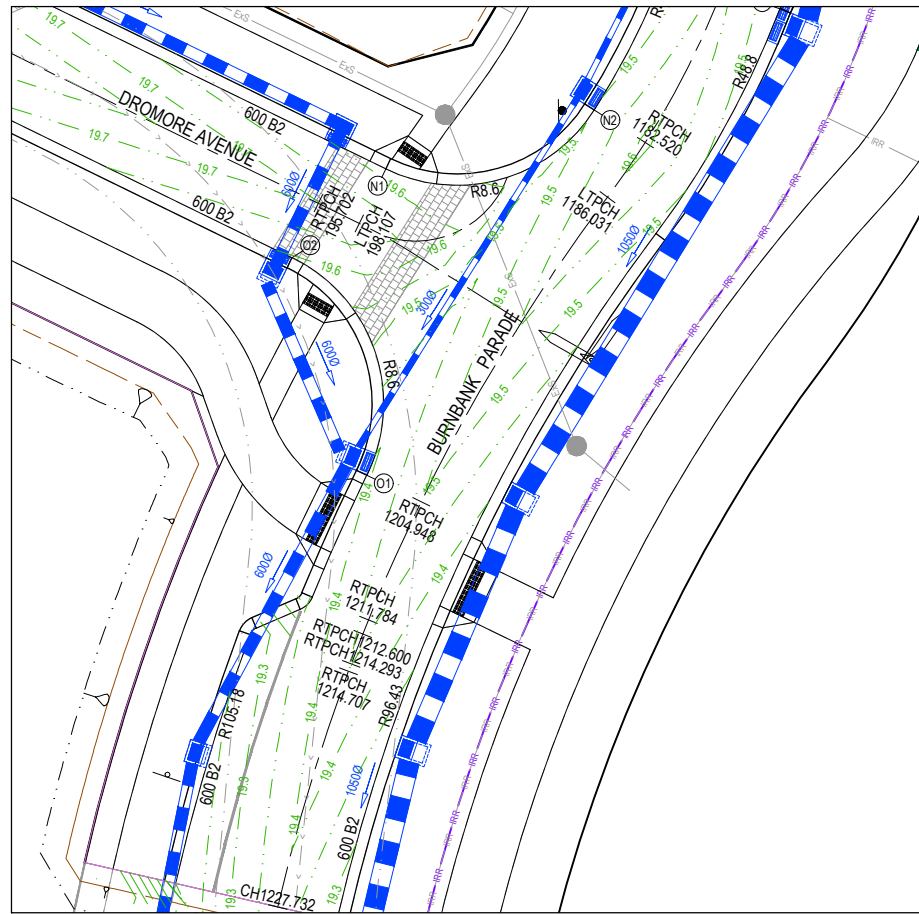
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Scale
1:200 @ A1

Project Ref
1101438
 Stage No
28
 Drawing No
302
 Rev
B

City of Casey

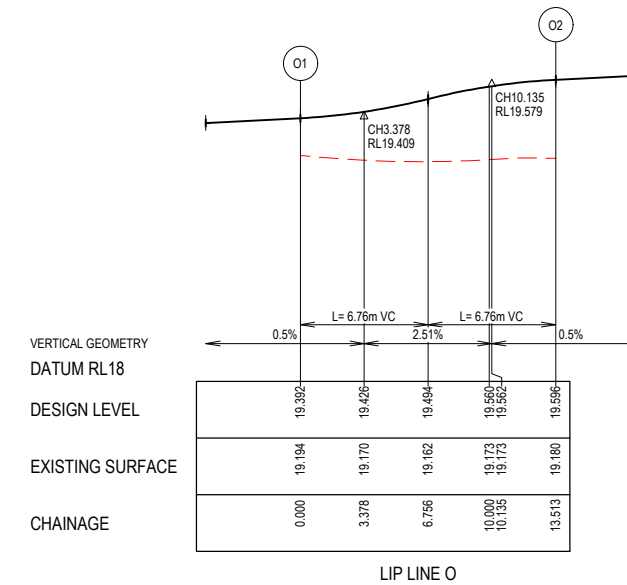
Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
 Date: **5/8/2024**
 Approval subject to below conditions on cover page



ALIGNMENT N

Point no	Easting	Northing	RL
N1	9189.663	81110.261	19.584
N2	9200.687	81113.372	19.504

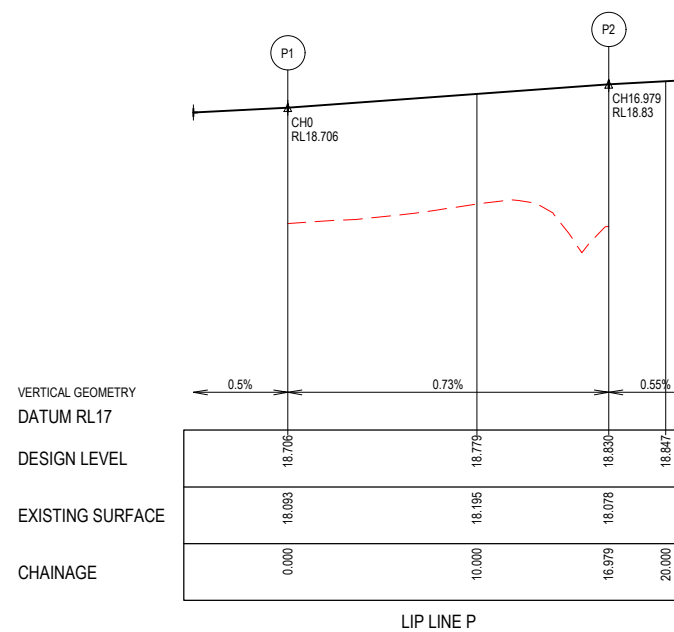
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
N1 - N2	83.516	8.600	12.536	2.185	1.620	3.065	2.662	3.134	19.544



ALIGNMENT O

Point no	Easting	Northing	RL
O1	9188.653	81094.060	19.392
O2	9184.695	81105.563	19.596

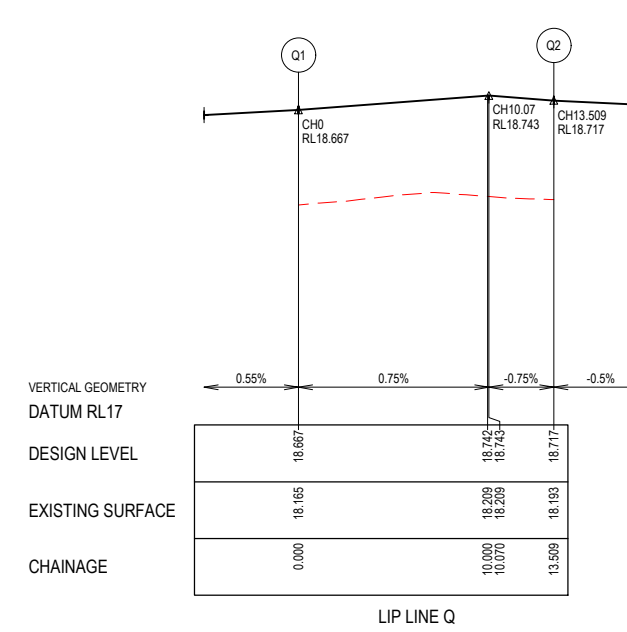
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
O1 - O2	90.026	8.600	13.513	2.520	1.865	3.292	2.791	3.378	19.494



ALIGNMENT P

Point no	Easting	Northing	RL
P1	9268.077	80994.650	18.706
P2	9257.317	81004.149	18.830

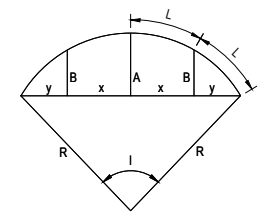
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
P1 - P2	113.122	8.600	16.979	3.861	2.834	4.075	3.102	4.245	18.768



ALIGNMENT Q

Point no	Easting	Northing	RL
Q1	9285.084	81007.887	18.667
Q2	9275.371	81000.567	18.717

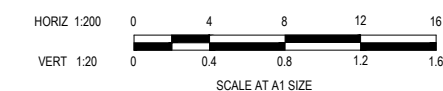
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
Q1 - Q2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	18.718



LIP PROFILE SETOUT

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 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No: FE0003608
 Date: 27.11.2023
 PS Number: PS919014R

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Project Details
SMITHS LANE
STAGE 28
CITY OF CASEY

Drawing Title
INTERSECTION DETAILS
(SHEET 4 OF 4)

Sheet **26** of 39
 Scale: **1:200 @ A1**

Project Ref: **1101438** Stage No: **28** Drawing No: **303** Rev: **B**

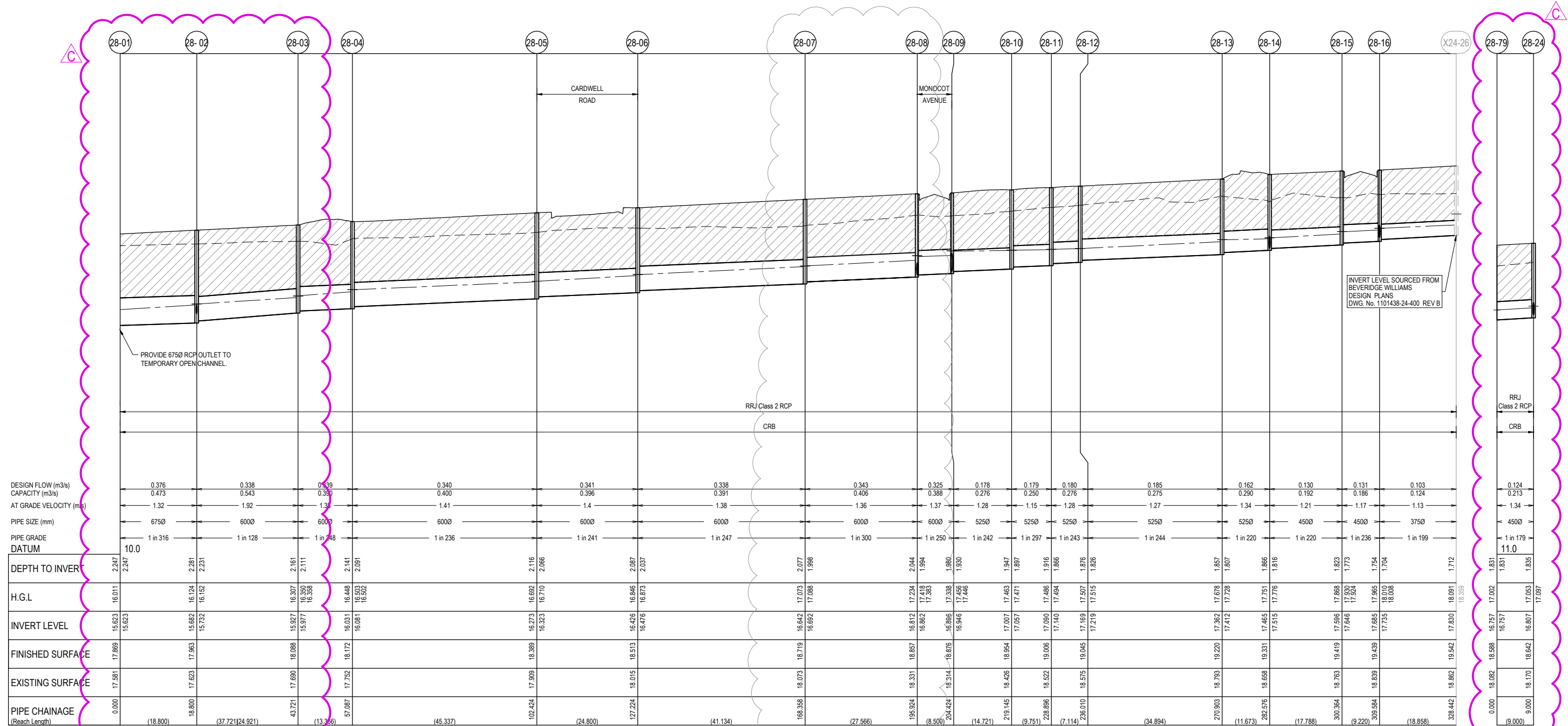
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NOTES:
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

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

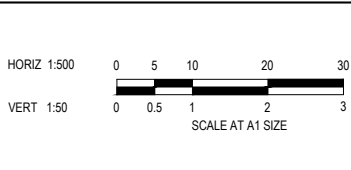
City of Casey

Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
 Date: **5/8/2024**
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C	DRAINAGE LINES AMENDED	21.05.24	L.M.	S.Y.					
B	LINE 28-07 TO 28-08 DIAMETER CHANGED	19.01.24	B.P.	S.Y.					
A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.					



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 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No.: PE005609
 Date: 27.11.2023
 PS Number: PS919014R

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Project Details
SMITHS LANE
STAGE 28
CITY OF CASEY

Drawing Title
DRAINAGE LONGITUDINAL SECTIONS
(SHEET 1 OF 6)

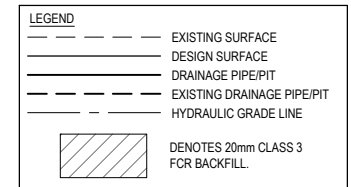
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Project Ref: **1101438** Stage No: **28** Drawing No: **400** Rev: **C**

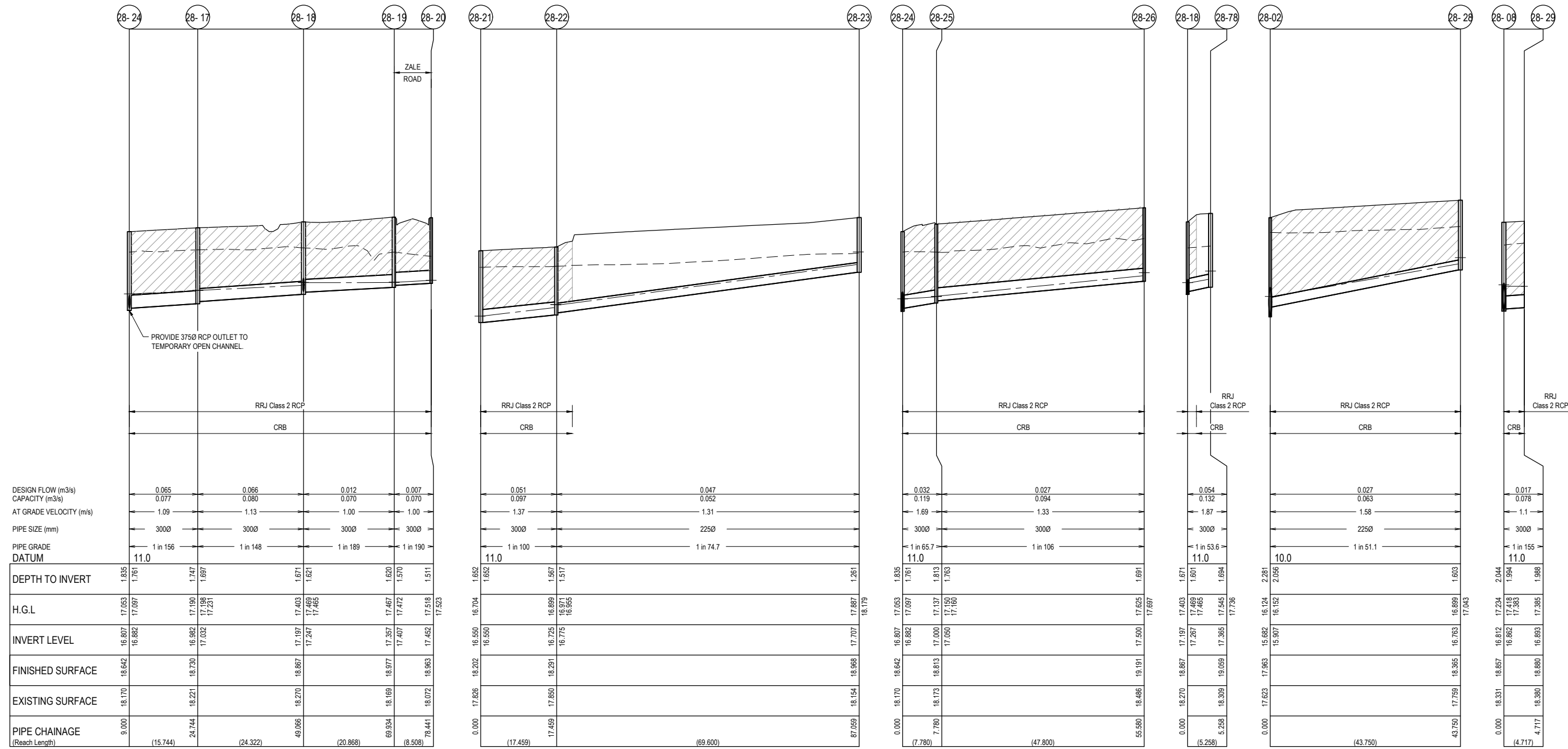
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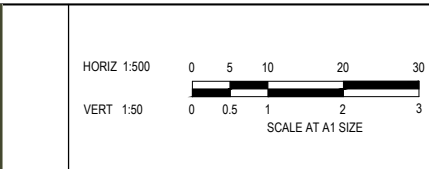
City of Casey

Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
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REV	DESCRIPTION	DATE	DRN.	APP.



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 Reg. No: PE3003606
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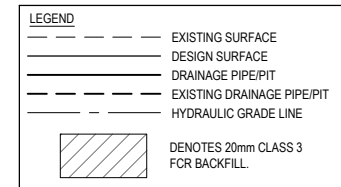
Project Details
**SMITHS LANE
 STAGE 28
 CITY OF CASEY**

Drawing Title
**DRAINAGE LONGITUDINAL SECTIONS
 (SHEET 2 OF 6)**

Sheet **29** of 39
 Scale
1:500 H 1:50 V @ A1

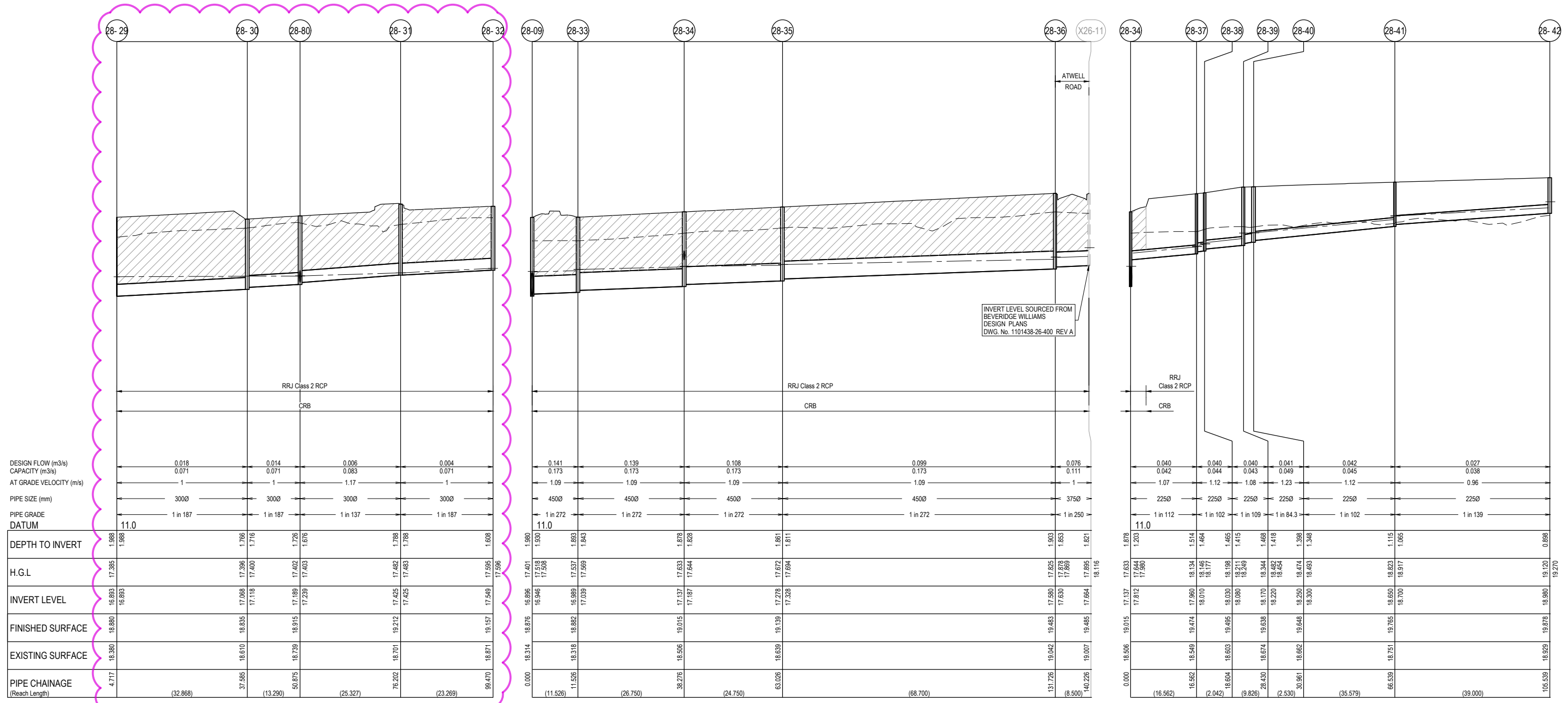
Project Ref: **1101438** Stage No: **28** Drawing No: **401** Rev: **B**

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City of Casey

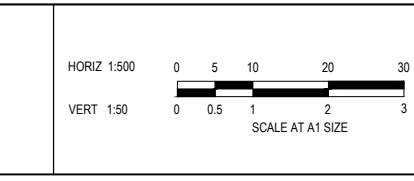
Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
 Date: **5/8/2024**
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DESIGN FLOW (m3/s)	CAPACITY (m3/s)	AT GRADE VELOCITY (m/s)	PIPE SIZE (mm)	PIPE GRADE DATUM	DEPTH TO INVERT	H.G.L.	INVERT LEVEL	FINISHED SURFACE	EXISTING SURFACE	PIPE CHAINAGE (Reach Length)
0.018	0.071	1	3000	11.0	1.988	17.385	16.893	18.890	18.390	4.717
0.014	0.071	1	3000	11.0	1.988	17.385	16.893	18.890	18.390	(32.868)
0.006	0.083	1.17	3000	11.0	1.766	17.400	17.118	18.835	18.610	37.985
0.004	0.071	1	3000	11.0	1.716	17.400	17.118	18.835	18.610	(13.290)
0.004	0.083	1.17	3000	11.0	1.726	17.403	17.239	18.915	18.739	50.875
0.004	0.071	1	3000	11.0	1.688	17.483	17.425	19.212	18.701	76.202
0.004	0.071	1	3000	11.0	1.788	17.483	17.425	19.212	18.701	(25.327)
0.004	0.071	1	3000	11.0	1.688	17.549	17.549	19.157	18.871	99.470
0.004	0.071	1	3000	11.0	1.688	17.549	17.549	19.157	18.871	(23.269)
0.141	0.173	1.09	4500	11.0	1.980	17.401	16.946	18.876	18.314	0.000
0.139	0.173	1.09	4500	11.0	1.930	17.508	16.946	18.876	18.314	(11.526)
0.108	0.173	1.09	4500	11.0	1.893	17.537	16.989	18.882	18.318	11.526
0.099	0.173	1.09	4500	11.0	1.843	17.569	17.039	18.882	18.318	(26.750)
0.076	0.111	1	3750	11.0	1.821	17.694	17.328	19.139	18.506	38.276
0.076	0.111	1	3750	11.0	1.861	17.672	17.278	19.139	18.506	(24.750)
0.076	0.111	1	3750	11.0	1.811	17.694	17.328	19.139	18.506	63.026
0.076	0.111	1	3750	11.0	1.861	17.672	17.278	19.139	18.506	(24.750)
0.076	0.111	1	3750	11.0	1.811	17.694	17.328	19.139	18.506	131.726
0.076	0.111	1	3750	11.0	1.861	17.672	17.278	19.139	18.506	(8.500)
0.040	0.044	1.07	2250	11.0	1.878	17.633	17.812	19.015	18.506	0.000
0.040	0.044	1.07	2250	11.0	1.828	17.633	17.812	19.015	18.506	(16.562)
0.040	0.044	1.07	2250	11.0	1.878	17.633	17.812	19.015	18.506	16.562
0.040	0.044	1.07	2250	11.0	1.828	17.633	17.812	19.015	18.506	(2.042)
0.041	0.049	1.23	2250	11.0	1.464	18.134	18.010	19.474	18.549	18.604
0.041	0.049	1.23	2250	11.0	1.415	18.134	18.010	19.474	18.549	(9.826)
0.041	0.049	1.23	2250	11.0	1.468	18.211	18.080	19.495	18.603	28.430
0.041	0.049	1.23	2250	11.0	1.418	18.211	18.080	19.495	18.603	(2.530)
0.042	0.045	1.12	2250	11.0	1.398	18.344	18.170	19.638	18.674	30.961
0.042	0.045	1.12	2250	11.0	1.348	18.344	18.170	19.638	18.674	(35.579)
0.042	0.045	1.12	2250	11.0	1.398	18.344	18.170	19.638	18.674	66.539
0.042	0.045	1.12	2250	11.0	1.348	18.344	18.170	19.638	18.674	(39.000)
0.027	0.038	0.96	2250	11.0	1.115	18.823	18.700	19.765	18.751	105.539
0.027	0.038	0.96	2250	11.0	1.065	18.823	18.700	19.765	18.751	(19.270)
0.027	0.038	0.96	2250	11.0	1.115	18.823	18.700	19.765	18.751	19.120
0.027	0.038	0.96	2250	11.0	1.065	18.823	18.700	19.765	18.751	(18.929)
0.027	0.038	0.96	2250	11.0	1.115	18.823	18.700	19.765	18.751	19.878
0.027	0.038	0.96	2250	11.0	1.065	18.823	18.700	19.765	18.751	(18.929)

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B	DRAINAGE LINES AMENDED	21.05.24	L.M.	S.Y.						
A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.						
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.	



Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No. PE0003608
 Date: 27.11.2023
 PS Number: PS919014R

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

Project Details: SMITHS LANE STAGE 28 CITY OF CASEY
 Drawing Title: DRAINAGE LONGITUDINAL SECTIONS (SHEET 3 OF 6)

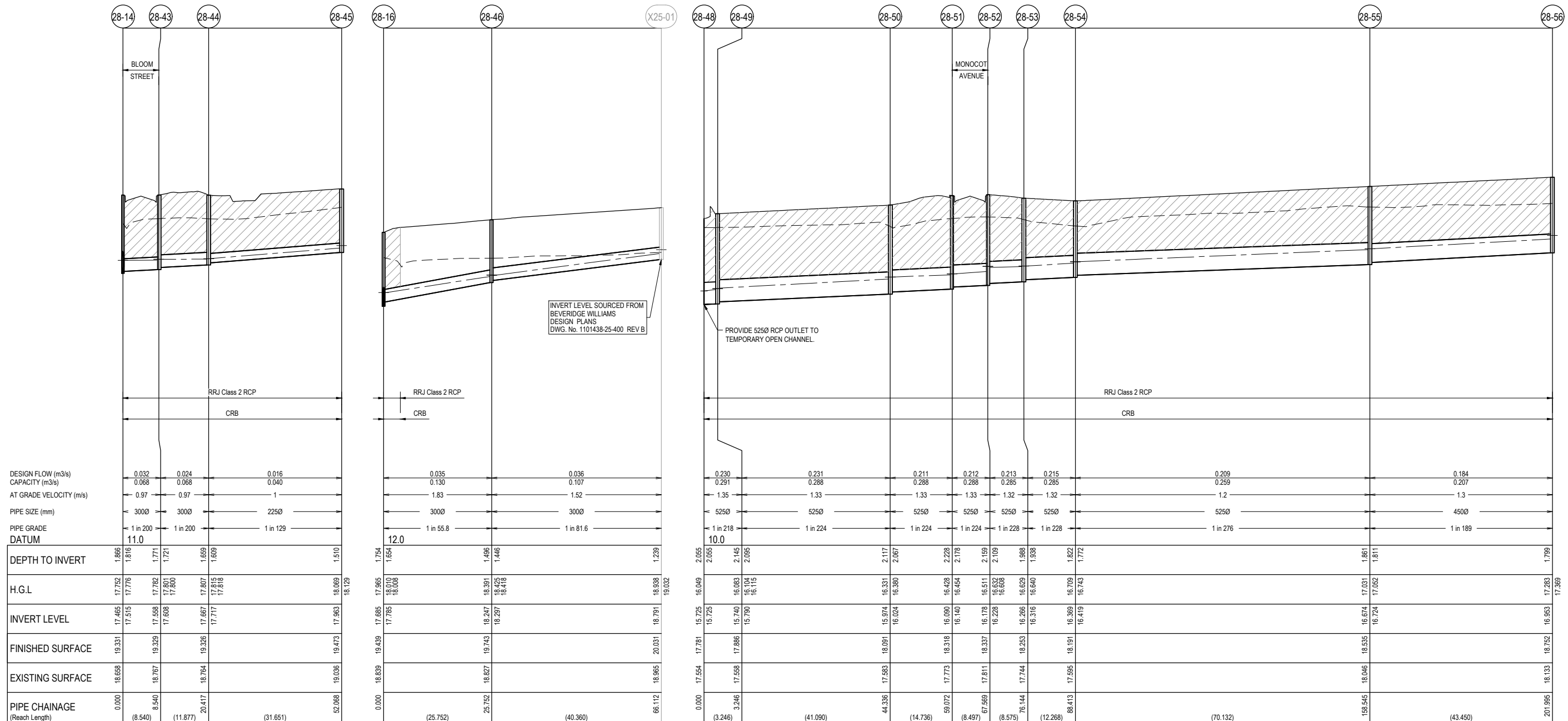
Sheet **30** of 39
 Scale: 1:500 H 1:50 V @ A1
 Project Ref: 1101438 Stage No: 28 Drawing No: 402 Rev: B

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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.

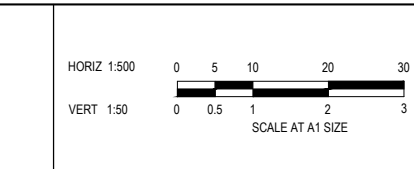
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	DENOTES 20mm CLASS 3 FCR BACKFILL

City of Casey
 Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
 Date: **5/8/2024**
 Approval subject to below conditions on cover page



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B	NUMBER OF PAGES AMENDED	21.05.24	L.M.	S.Y.						
A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.						
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.	



Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No. PS2003606
 Date: 27.11.2023
 PS Number: PS919014R

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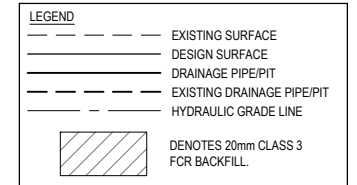
Project Details
 SMITHS LANE
 STAGE 28
 CITY OF CASEY

Drawing Title
 DRAINAGE LONGITUDINAL SECTIONS
 (SHEET 4 OF 6)

Sheet **31** of 39
 Scale
 1:500 H 1:50 V @ A1

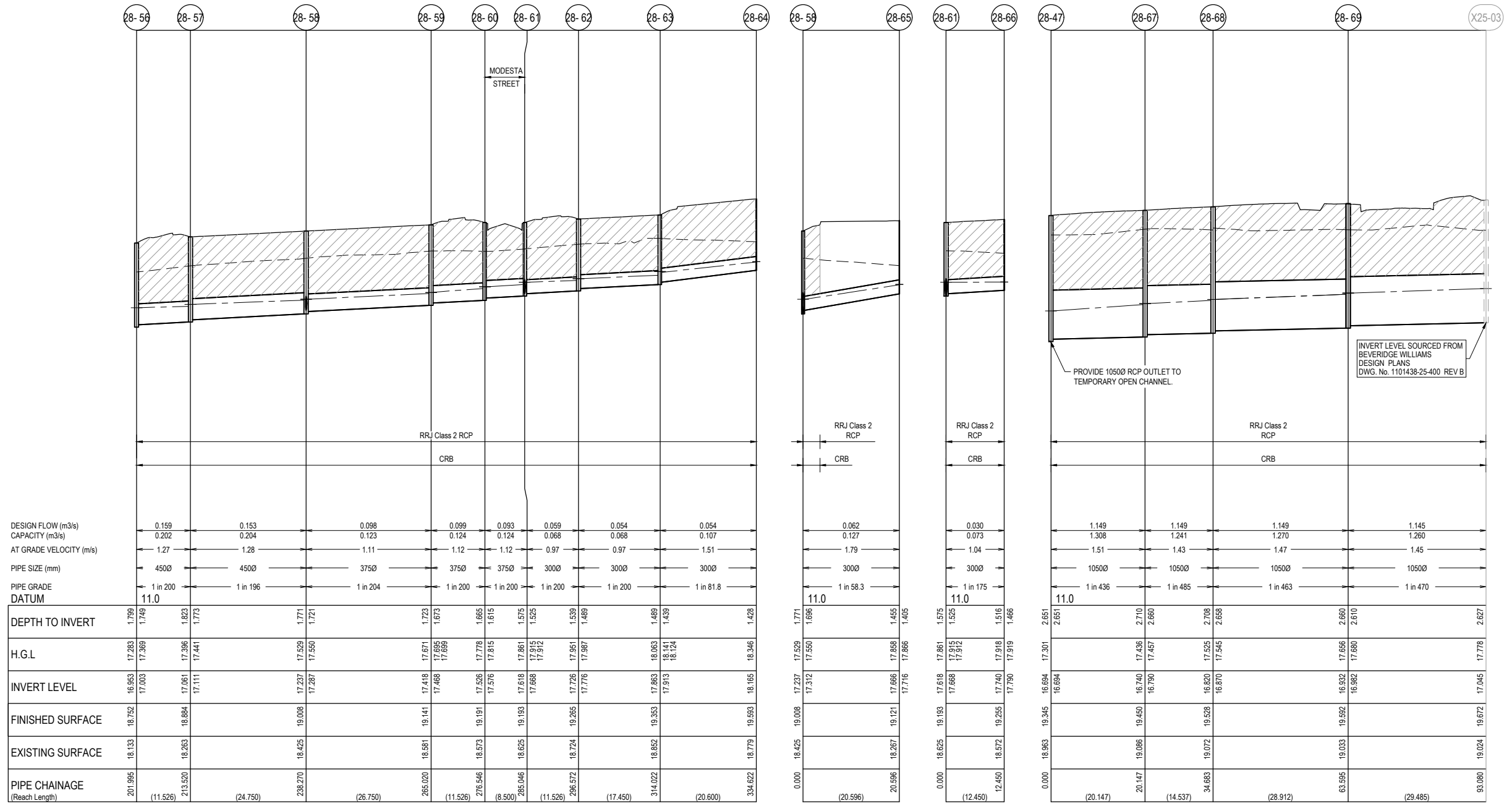
Project Ref: 1101438
 Stage No: 28
 Drawing No: 403
 Rev: B

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



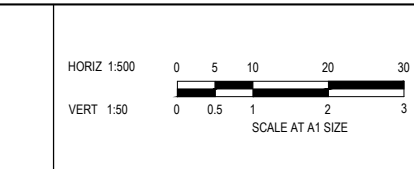
City of Casey

Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
 Date: **5/8/2024**
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B	NUMBER OF PAGES AMENDED	21.05.24	L.M.	S.Y.						
A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.						
REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.	



Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No: PS3003608
 Date: 27.11.2023
 PS Number: PS919014R

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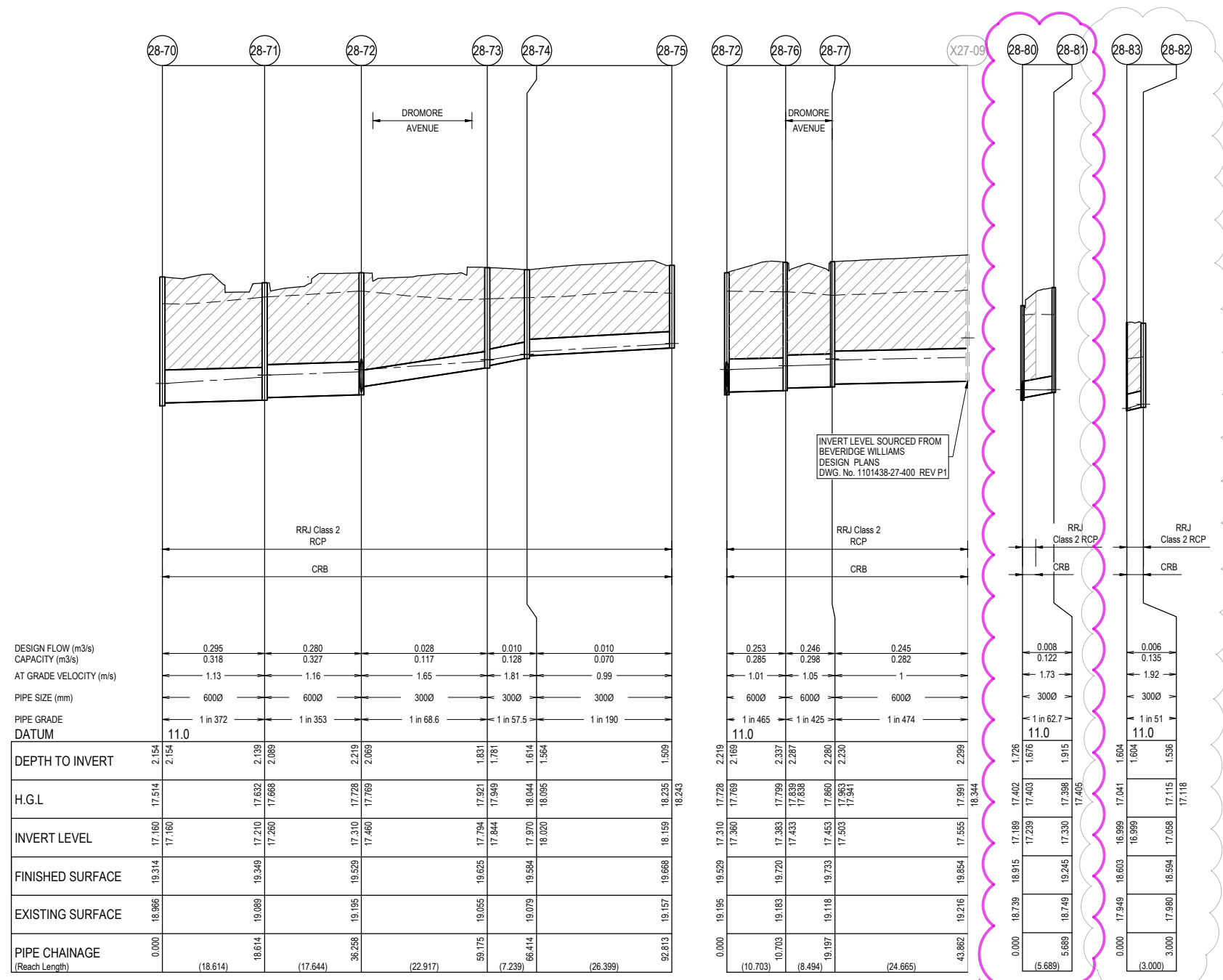
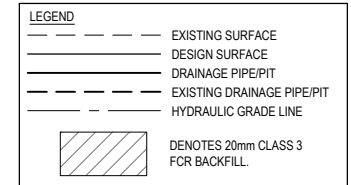
Project Details
**SMITHS LANE
 STAGE 28
 CITY OF CASEY**

Drawing Title
**DRAINAGE LONGITUDINAL SECTIONS
 (SHEET 5 OF 6)**

Sheet **32** of 39
 Scale
1:500 H 1:50 V @ A1

Project Ref: **1101438** Stage No: **28** Drawing No: **404** Rev: **B**

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



DESIGN FLOW (m ³ /s)	0.295	0.280	0.028	0.010	0.010
CAPACITY (m ³ /s)	0.318	0.327	0.117	0.128	0.070
AT GRADE VELOCITY (m/s)	1.13	1.16	1.65	1.81	0.99
PIPE SIZE (mm)	6000	6000	3000	3000	3000
PIPE GRADE	1 in 372	1 in 353	1 in 68.6	1 in 57.5	1 in 190
DATUM	11.0				
DEPTH TO INVERT	2.154	2.139	2.219	1.831	1.509
H.G.L	17.514	17.632	17.728	17.921	18.243
INVERT LEVEL	17.160	17.210	17.310	17.794	18.159
FINISHED SURFACE	19.314	19.349	19.529	19.625	19.668
EXISTING SURFACE	18.966	19.089	19.195	19.055	19.157
PIPE CHAINAGE (Reach Length)	0.000	18.614	17.644	36.258	92.813

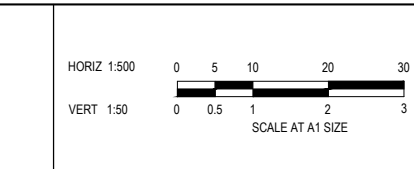
DESIGN FLOW (m ³ /s)	0.253	0.246	0.245	0.008	0.006
CAPACITY (m ³ /s)	0.285	0.298	0.282	0.122	0.135
AT GRADE VELOCITY (m/s)	1.01	1.05	1	1.73	1.92
PIPE SIZE (mm)	6000	6000	6000	3000	3000
PIPE GRADE	1 in 465	1 in 425	1 in 474	1 in 62.7	1 in 51
DATUM	11.0				
DEPTH TO INVERT	2.219	2.169	2.289	1.726	1.536
H.G.L	17.728	17.769	17.991	17.402	17.118
INVERT LEVEL	17.310	17.383	17.555	17.239	17.058
FINISHED SURFACE	19.529	19.720	19.854	19.915	19.999
EXISTING SURFACE	19.195	19.183	19.216	18.739	18.594
PIPE CHAINAGE (Reach Length)	0.000	10.703	43.862	5.689	3.000

City of Casey

Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
 Date: **5/8/2024**
 Approval subject to below conditions on cover page

FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
C	DRAINAGE LINES AMENDED	21.05.24	L.M.	S.Y.					
B	LINE 28-82 TO 28-83 ADDED	15.03.24	B.P.	S.Y.					
A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.					



Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No: PE0003608
 Date: 27.11.2023
 PS Number: PS919014R

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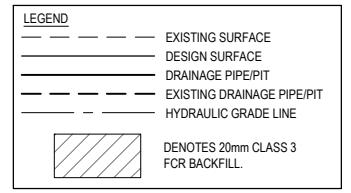
Project Details
**SMITHS LANE
 STAGE 28
 CITY OF CASEY**

Drawing Title
**DRAINAGE LONGITUDINAL SECTIONS
 (SHEET 6 OF 6)**

Sheet	33 of 39		
Scale	1:500 H 1:50 V @ A1		
Project Ref	Stage No	Drawing No	Rev
1101438	28	405	C

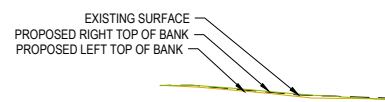
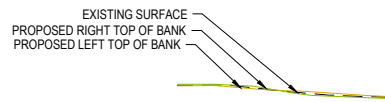
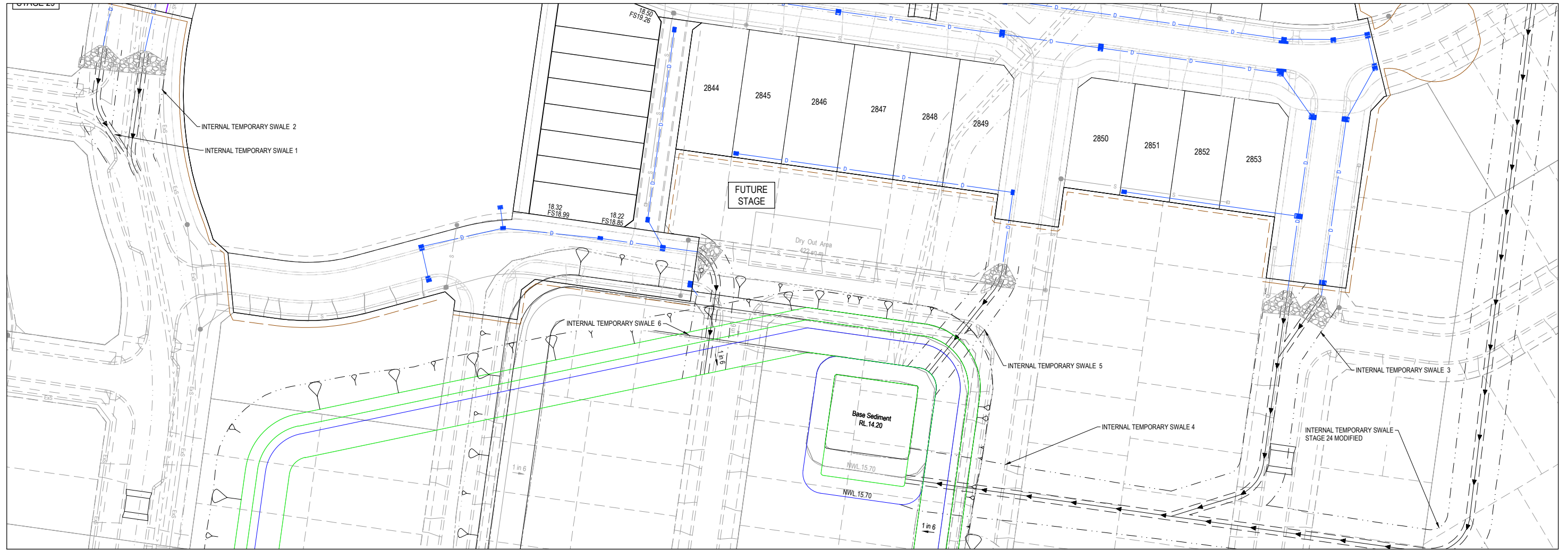
PIT SCHEDULE														
PIT NAME	PIT TYPE	LID		INTERNAL		INLET		OUTLET		F.S.L.	DEPTH (m)	PIT DETAIL	HAUNCH DETAIL	REMARKS
		WIDTH (mm)	LENGTH (mm)	WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (mm)	DIA.	INV R.L. (mm)					
28-01	TEMPORARY ENDWALL					675	15.623			17.869	2.247			REFER SHEET 36 FOR DETAIL.
28-02	GRADED SIDE ENTRY PIT	600	900	1000	900	600	15.732	675	15.682	17.963	2.281	EDCM 601	EDCM 607	HAUNCH WEST. REFER DETAIL 2 ON THIS SHEET.
28-03	GRADED SIDE ENTRY PIT	600	900	900	1200	600	15.977	600	15.927	18.088	2.161	EDCM 601	EDCM 607	HAUNCH WEST. REFER DETAIL 2 ON THIS SHEET.
28-04	DOUBLE GRADED SIDE ENTRY PIT	600	900	900	1200	600	16.031	600	16.011	18.172	2.141	EDCM 601	EDCM 607	HAUNCH SOUTH. REFER DETAIL 2 ON THIS SHEET.
28-05	GRADED SIDE ENTRY PIT	600	900	900	900	600	16.273	600	16.273	18.389	2.116	EDCM 601	EDCM 607	HAUNCH SOUTH. REFER DETAIL 2 ON THIS SHEET.
28-06	GRADED SIDE ENTRY PIT	600	900	900	900	600	16.476	600	16.426	18.513	2.087	EDCM 601	EDCM 607	HAUNCH SOUTH. REFER DETAIL 2 ON THIS SHEET.
28-07	JUNCTION PIT	600	900	900	900	600	16.642	600	16.642	18.719	2.077	EDCM 605	EDCM 607	-
28-08	GRADED SIDE ENTRY PIT	600	900	900	900	600	16.862	600	16.812	18.857	2.044	EDCM 601	EDCM 607	HAUNCH SOUTH. REFER DETAIL 1 ON THIS SHEET.
28-09	GRADED SIDE ENTRY PIT	600	900	900	900	600	16.946	600	16.896	18.876	1.98	EDCM 601	EDCM 607	HAUNCH SOUTH. REFER DETAIL 1 ON THIS SHEET.
28-10	JUNCTION PIT	600	900	900	900	600	17.057	600	17.007	18.964	1.947	EDCM 605	EDCM 607	HAUNCH SOUTH. REFER DETAIL 1 ON THIS SHEET.
28-11	JUNCTION PIT	600	900	900	900	600	17.14	600	17.09	19.006	1.916	EDCM 605	EDCM 607	HAUNCH SOUTH. REFER DETAIL 1 ON THIS SHEET.
28-12	JUNCTION PIT	600	900	900	900	600	17.219	600	17.169	19.045	1.878	EDCM 605	EDCM 607	HAUNCH SOUTH. REFER DETAIL 1 ON THIS SHEET.
28-13	GRADED SIDE ENTRY PIT	600	900	1000	900	600	17.412	600	17.362	19.222	1.857	EDCM 601	EDCM 607	HAUNCH SOUTH. REFER DETAIL 1 ON THIS SHEET.
28-14	GRADED SIDE ENTRY PIT	600	900	1000	900	600	17.515	600	17.465	19.331	1.868	EDCM 601	EDCM 607	HAUNCH WEST. REFER DETAIL 1 ON THIS SHEET.
28-15	JUNCTION PIT	600	900	600	900	600	17.646	450	17.596	19.419	1.823	EDCM 605	-	-
28-16	JUNCTION PIT	600	900	600	900	600	17.735	450	17.685	19.439	1.754	EDCM 605	-	-
28-17	JUNCTION PIT	600	900	600	900	600	17.857	300	17.807	19.542	1.712	EDCM 601	-	REMOVE TEMPORARY ENDWALL.
28-18	JUNCTION PIT	600	900	600	900	600	17.932	300	17.882	19.638	1.747	EDCM 605	-	-
28-19	GRADED SIDE ENTRY PIT	600	900	600	900	600	18.061	300	18.011	19.744	1.692	EDCM 601	-	REFER SHEET 35 FOR DETAIL.
28-20	GRADED SIDE ENTRY PIT	600	900	600	900	600	18.14	300	18.09	19.840	1.662	EDCM 601	-	-
28-21	TEMPORARY ENDWALL	600	900	600	900	600	18.225	300	18.175	19.942	1.622	EDCM 601	-	REFER SHEET 35 FOR DETAIL.
28-22	JUNCTION PIT	600	900	600	900	600	18.31	300	18.26	20.044	1.582	EDCM 605	-	-
28-23	JUNCTION PIT	600	900	600	900	600	18.395	300	18.345	20.146	1.542	EDCM 605	-	-
28-24	GRADED SIDE ENTRY PIT	600	900	600	900	600	18.48	300	18.43	20.248	1.502	EDCM 601	-	-
28-25	JUNCTION PIT	600	900	600	900	600	18.564	300	18.514	20.350	1.462	EDCM 605	-	PROVIDE TEMPORARY PIT COVER.
28-26	JUNCTION PIT	600	900	600	900	600	18.648	300	18.598	20.452	1.422	EDCM 605	-	PROVIDE TEMPORARY PIT COVER.
28-27	JUNCTION PIT	600	900	600	900	600	18.732	300	18.682	20.554	1.382	EDCM 605	-	-
28-28	JUNCTION PIT	600	900	600	900	600	18.816	300	18.766	20.656	1.342	EDCM 605	-	-
28-29	TANGENT POINT					300	18.900							CURVE TANGENT POINT.
28-30	GRADED SIDE ENTRY PIT	600	900	600	900	600	18.984	300	18.934	20.758	1.302	VICROADS SD1282	-	PROVIDE HEAVY DUTY COVER.
28-31	GRADED SIDE ENTRY PIT	600	900	600	900	600	19.068	300	19.018	20.860	1.262	EDCM 601	-	CURVE TANGENT POINT.
28-32	GRADED SIDE ENTRY PIT	600	900	600	900	600	19.152	300	19.102	20.962	1.222	VICROADS SD1282	-	PROVIDE HEAVY DUTY COVER.
28-33	GRADED SIDE ENTRY PIT	600	900	600	900	600	19.236	450	19.186	21.064	1.182	EDCM 601	-	-
28-34	JUNCTION PIT	600	900	600	900	600	19.320	450	19.270	21.166	1.142	EDCM 605	-	-
28-35	GRADED SIDE ENTRY PIT	600	900	600	900	600	19.404	450	19.354	21.268	1.102	EDCM 601	-	PROVIDE HEAVY DUTY GRADED COVER.
28-36	GRADED SIDE ENTRY PIT	600	900	600	900	600	19.488	450	19.438	21.370	1.062	EDCM 601	-	-
28-37	JUNCTION PIT	600	900	600	900	600	19.572	300	19.522	21.472	1.022	EDCM 601	-	REMOVE TEMPORARY ENDWALL AND REPLACE WITH PIT.
28-38	JUNCTION PIT	600	900	600	900	600	19.656	225	19.606	21.574	0.982	EDCM 605	-	-
28-39	JUNCTION PIT	600	900	600	900	600	19.740	225	19.690	21.676	0.942	EDCM 605	-	-
28-40	JUNCTION PIT	600	900	600	900	600	19.824	225	19.774	21.778	0.902	EDCM 605	-	-
28-41	JUNCTION PIT	600	900	600	900	600	19.908	225	19.858	21.880	0.862	EDCM 605	-	-
28-42	JUNCTION PIT	600	900	600	900	600	19.992	225	19.942	21.982	0.822	EDCM 605	-	-
28-43	GRADED SIDE ENTRY PIT	600	900	600	900	600	20.076	300	20.026	22.084	0.782	EDCM 601	-	-
28-44	JUNCTION PIT	600	900	600	900	600	20.160	300	20.110	22.186	0.742	EDCM 605	-	-
28-45	GRADED SIDE ENTRY PIT	600	900	600	900	600	20.244	300	20.194	22.288	0.702	EDCM 601	-	-
28-46	JUNCTION PIT	600	900	600	900	600	20.328	300	20.278	22.390	0.662	EDCM 605	-	-
28-47	JUNCTION PIT	600	900	600	900	600	20.412	300	20.362	22.492	0.622	EDCM 605	-	REPLACE TEMPORARY COVER.
28-48	TEMPORARY ENDWALL	600	900	600	900	600	20.496	300	20.446	22.594	0.582	EDCM 601	EDCM 607	REPLACE TEMPORARY COVER WITH GRADED LID.
28-49	TEMPORARY ENDWALL	600	900	600	900	600	20.580	300	20.530	22.696	0.542	EDCM 601	EDCM 607	REFER SHEET 35 FOR DETAIL.
28-50	GRADED SIDE ENTRY PIT	600	900	900	900	600	20.664	525	20.614	22.798	0.502	EDCM 601	EDCM 607	HAUNCH EAST. REFER DETAIL 2 ON THIS SHEET.
28-51	GRADED SIDE ENTRY PIT	600	900	900	900	600	20.748	525	20.698	22.900	0.462	EDCM 601	EDCM 607	HAUNCH EAST. REFER DETAIL 2 ON THIS SHEET.
28-52	GRADED SIDE ENTRY PIT	600	900	900	900	600	20.832	525	20.782	23.002	0.422	EDCM 601	EDCM 607	HAUNCH SOUTH. REFER DETAIL 2 ON THIS SHEET.
28-53	GRADED SIDE ENTRY PIT	600	900	900	900	600	20.916	525	20.866	23.104	0.382	EDCM 601	EDCM 607	HAUNCH SOUTH. REFER DETAIL 2 ON THIS SHEET.
28-54	DOUBLE GRADED SIDE ENTRY PIT	600	900	900	900	600	21.000	525	20.950	23.206	0.342	EDCM 601	EDCM 607	HAUNCH SOUTH. REFER DETAIL 1 ON THIS SHEET.
28-55	GRADED SIDE ENTRY PIT	600	900	900	900	600	21.084	525	21.034	23.308	0.302	EDCM 601	EDCM 607	HAUNCH SOUTH. REFER DETAIL 1 ON THIS SHEET.
28-56	JUNCTION PIT	600	900	900	900	600	21.168	450	21.118	23.410	0.262	EDCM 605	EDCM 607	HAUNCH SOUTH. REFER DETAIL 1 ON THIS SHEET.
28-57	GRADED SIDE ENTRY PIT	600	900	900	900	600	21.252	450	21.202	23.512	0.222	EDCM 601	EDCM 607	HAUNCH SOUTH. REFER DETAIL 1 ON THIS SHEET.
28-58	JUNCTION PIT	600	900	600	900	600	21.336	300	21.286	23.614	0.182	EDCM 601	EDCM 607	HAUNCH EAST. REFER DETAIL 2 ON THIS SHEET.
28-59	GRADED SIDE ENTRY PIT	600	900	600	900	600	21.420	300	21.370	23.716	0.142	EDCM 601	-	-
28-60	GRADED SIDE ENTRY PIT	600	900	600	900	600	21.504	300	21.454	23.818	0.102	EDCM 601	-	-
28-61	GRADED SIDE ENTRY PIT	600	900	600	900	600	21.588	300	21.538	23.920	0.062	EDCM 601	-	-
28-62	GRADED SIDE ENTRY PIT	600	900	600	900	600	21.672	300	21.622	24.022	0.022	EDCM 601	-	-
28-63	JUNCTION PIT	600	900	600	900	600	21.756	300	21.706	24.124	0.022	EDCM 605	-	-
28-64	ENDPIPE					300	21.840							-
28-65	ENDPIPE					300	21.924							-
28-66	ENDPIPE					300	22.008							-
28-67	JUNCTION PIT	600	900	1350	900	1050	22.092	1050	22.042	24.226	0.022	EDCM 605	EDCM 607	HAUNCH EAST. REFER DETAIL 2 ON THIS SHEET.
28-68	JUNCTION PIT	600	900	1350	900	1050	22.176	1050	22.126	24.328	0.022	EDCM 605	EDCM 607	HAUNCH EAST. REFER DETAIL 2 ON THIS SHEET.
28-69	DOUBLE GRADED SIDE ENTRY PIT	600	900	1350	900	1050	22.260	1050	22.210	24.430	0.022	EDCM 601	EDCM 607	HAUNCH EAST. REFER DETAIL 2 ON THIS SHEET.
28-70	TEMPORARY ENDWALL	600	900	1350	900	1050	22.344	1050	22.294	24.532	0.022	EDCM 601	EDCM 607	REPLACE TEMPORARY END WALL WITH PIT. HAUNCH EAST. REFER DETAIL 2.
28-71	JUNCTION PIT	600	900	900	900	600	22.428	600	22.378	24.634	0.022	EDCM 601	EDCM 607	REFER SHEET 35 FOR DETAIL.
28-72	GRADED SIDE ENTRY PIT	600	900	900	900	600	22.512	600	22.462	24.736	0.022	EDCM 605	EDCM 607	HAUNCH EAST. REFER DETAIL 1 ON THIS SHEET.
28-73	GRADED SIDE ENTRY PIT	600	900	600	900	600	22.596	600	22.546	24.838	0.022	EDCM 601	-	-
28-74	DOUBLE GRADED SIDE ENTRY PIT	600	900	600	900	600	22.680	600	22.630	24.940	0.022	EDCM 605	-	-
28-75	GRADED SIDE ENTRY PIT	600	900	600	900	600	22.764	600	22.714	25.042	0.022	EDCM 601	-	-
28-76	GRADED SIDE ENTRY PIT	600	900	600	900	600	22.848	600	22.798	25.144	0.022	EDCM 601	EDCM 607	HAUNCH SOUTH. REFER DETAIL 2 ON THIS SHEET.
28-77	GRADED SIDE ENTRY PIT	600	900	600	900	600	22.932	600	22.882	25.246	0.022	EDCM 601	EDCM 607	HAUNCH SOUTH. REFER DETAIL 1 ON THIS SHEET.
28-78	GRADED SIDE ENTRY PIT	600	900	600	900	600	23.016	600	22.966	25.348	0.022	EDCM 601	-	REPLACE TEMPORARY END WALL WITH PIT. HAUNCH SOUTH. REFER DETAIL 1.
28-79	TEMPORARY ENDWALL	600	900	600	900	600	23.100	600	23.050	25.450	0.022	EDCM 605	-	-
28-80	JUNCTION PIT	600	900	600	900	600	23.184	300	23.134	25.552	0.022	VICROADS SD1282	-	REFER SHEET 35 FOR DETAIL.
28-81	GRADED ENTRY PIT	600	900	600	900	600	23.268	300	23.218	25.654	0.022	-	-	PROVIDE HEAVY DUTY COVER.
28-82	GRADED ENTRY PIT	600	900	600	900	600	23.352	300	23.302	25.756	0.022	EDCM 605	-	-
28-83	ENDPIPE					300	23.436							-

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



CURVE DETAILS TABLE

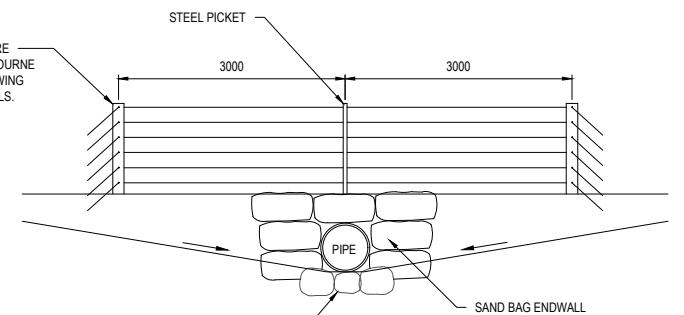
LOCATION	DEFLECTION ANGLE (I)	RADIUS (R)	ARC LENGTH (A)	CHORD LENGTH (C)	TP1 (E,N)	TP2 (E,N)	METHOD	DETAIL
----------	----------------------	------------	----------------	------------------	-----------	-----------	--------	--------



ROCK GRADING

% OF ROCK GREATER THAN	SIZE (mm)	% OF ROCK BY WEIGHT
0	400 - 900	50
50	200 - 400	40
90	0 - 200	10

TEMPORARY POST & WIRE FENCE. REFER TO MELBOURNE WATER STANDARD DRAWING No.7251/8/203 FOR DETAILS.



OUTLET SECTION A-A
NTS

VERTICAL GEOMETRY: -0.72 %
HORIZONTAL GEOMETRY: R= -10m HC
DATUM RL14

DESIGN CENTRELINE	EXISTING SURFACE AT RIGHT BOUNDARY	EXISTING SURFACE AT LEFT BOUNDARY	EXISTING SURFACE
17.000	18.981	18.960	18.967
16.928	18.954	18.921	18.934
16.856	18.825	18.864	18.839
20.000	18.825	18.864	18.839

CHAINAGE: 0.000, 10.000, 20.000

Temporary Swale 1 LONGITUDINAL SECTION

VERTICAL GEOMETRY: -0.15 %
HORIZONTAL GEOMETRY: R= -10m HC
DATUM RL14

DESIGN CENTRELINE	EXISTING SURFACE AT RIGHT BOUNDARY	EXISTING SURFACE AT LEFT BOUNDARY	EXISTING SURFACE
16.590	18.960	18.966	18.963
16.575	18.924	18.896	18.912
16.560	18.833	18.796	18.832
16.545	18.775	18.781	18.796

CHAINAGE: 0.000, 10.000, 20.000, 30.000

Temporary Swale 2 LONGITUDINAL SECTION

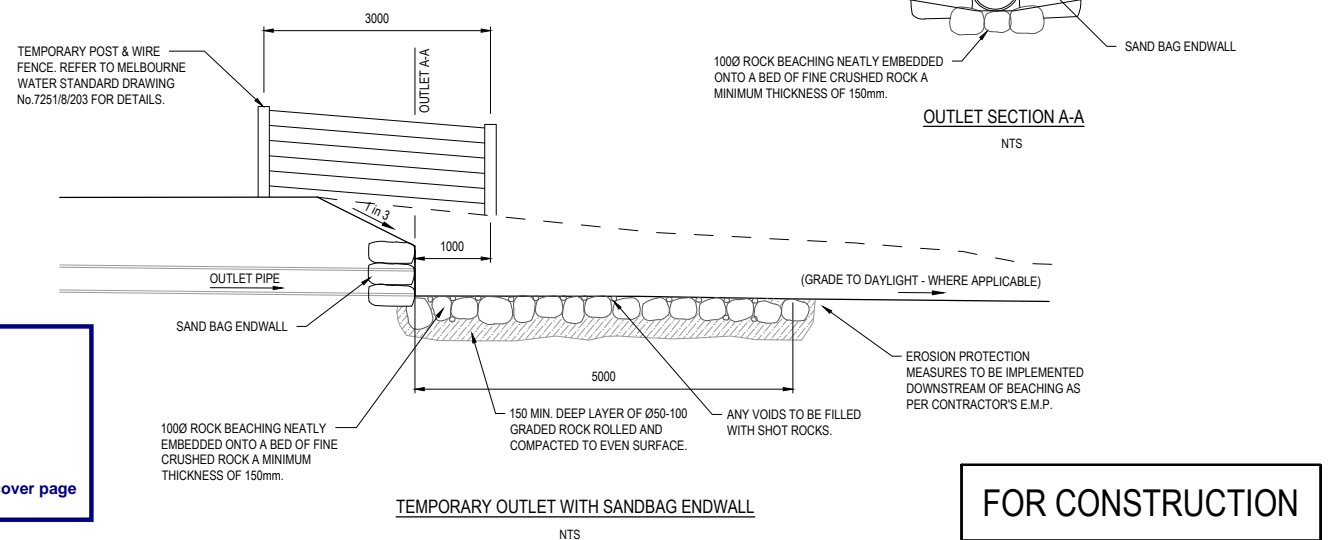
VERTICAL GEOMETRY: -1.06 %
HORIZONTAL GEOMETRY: R= -10m HC
DATUM RL13

DESIGN CENTRELINE	EXISTING SURFACE AT RIGHT BOUNDARY	EXISTING SURFACE AT LEFT BOUNDARY	EXISTING SURFACE
15.600	17.561	17.596	17.554
15.494	17.569	17.527	17.529
10.000	17.529	17.529	17.529

CHAINAGE: 0.000, 10.000

Temporary Swale 3 LONGITUDINAL SECTION

City of Casey
 Approved By: Timothy Sinnappu
 Planning Ref: PA21-0704
 Council Ref: R6138
 SD&E Ref: SEng00200/23
 Date: 5/8/2024
 Approval subject to below conditions on cover page



TEMPORARY OUTLET WITH SANDBAG ENDWALL
NTS

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B	NUMBER OF PAGES AMENDED	21.05.24	L.M.	S.Y.					
A	ISSUED FOR CONSTRUCTION	08.01.24	B.P.	S.Y.					



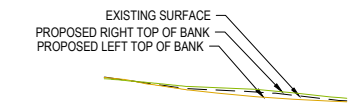
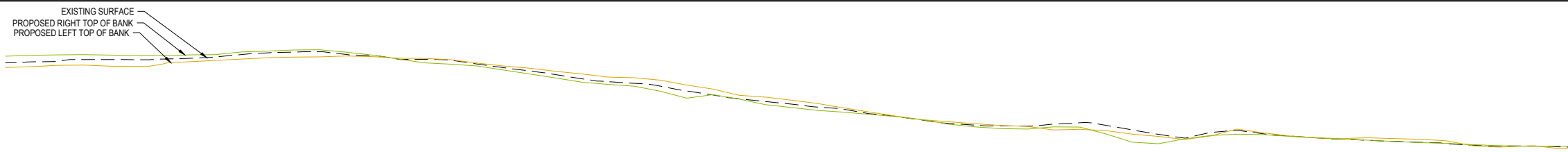
Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No.: FC0003608
 Date: 27.11.2023
 PS Number: PS919014R

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

Project Details: SMITHS LANE STAGE 28 CITY OF CASEY
 Drawing Title: TEMPORARY SWALE LONGITUDINAL SECTIONS (SHEET 1 OF 2) & DETAILS

Sheet 35 of 39
 Scale: 1:500 @ A1
 Project Ref: 1101438
 Stage No: 28
 Drawing No: 450
 Rev: B

K:\Jobs Data\1101438 110 Smiths Lane, Clyde (MIRVAC)_Eng\Stage 28\Drawings\1101438-28-450-RB.dwg



VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM RL13

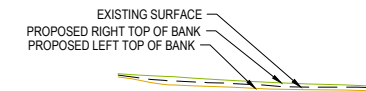
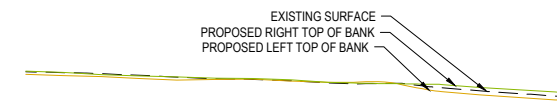
DESIGN CENTRELINE	16.170	16.138	16.106	16.074	16.042	16.010	15.978	15.946	15.914	15.883	15.851	15.819	15.787	15.755	15.723	15.691	15.659	15.627	15.595	15.563	15.531	15.499	15.467	15.435	15.403	15.372	15.340	15.308	15.276	15.244	15.212
EXISTING SURFACE AT RIGHT BOUNDARY	19.236	19.258	19.257	19.247	19.263	19.334	19.357	19.255	19.106	19.046	18.897	18.741	18.663	18.436	18.416	18.255	18.168	18.082	17.941	17.854	17.888	17.753	17.566	17.722	17.742	17.677	17.633	17.589	17.550	17.522	17.519
EXISTING SURFACE AT LEFT BOUNDARY	19.019	19.060	19.044	19.088	19.152	19.206	19.221	19.227	19.192	19.103	19.006	18.895	18.824	18.686	18.489	18.395	18.250	18.091	17.985	17.913	17.829	17.815	17.707	17.714	17.773	17.680	17.652	17.529	17.525	17.522	17.472
EXISTING SURFACE	19.107	19.141	19.169	19.180	19.219	19.299	19.319	19.243	19.176	19.087	18.994	18.804	18.718	18.571	18.424	18.322	18.223	18.087	17.955	17.905	17.940	17.916	17.746	17.784	17.757	17.681	17.595	17.538	17.522	17.484	
CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000	300.000

Temporary Swale STG 24 Modified LONGITUDINAL SECTION

VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM RL13

DESIGN CENTRELINE	16.600	16.319	16.039	15.758
EXISTING SURFACE AT RIGHT BOUNDARY	18.061	17.968	17.919	17.818
EXISTING SURFACE AT LEFT BOUNDARY	18.076	17.929	17.823	17.763
EXISTING SURFACE	18.082	17.943	17.884	17.785
CHAINAGE	0.000	10.000	20.000	30.000

Temporary Swale 6 LONGITUDINAL SECTION



VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM RL12

DESIGN CENTRELINE	15.212	15.200	15.150	15.071	14.991	14.912	14.833	14.753	14.674	14.595	14.515	14.436	14.356	14.277	14.232
EXISTING SURFACE AT RIGHT BOUNDARY	17.519	17.515	17.479	17.436	17.431	17.418	17.371	17.339	17.314	17.298	17.341	17.353	17.411	17.540	17.544
EXISTING SURFACE AT LEFT BOUNDARY	17.472	17.458	17.432	17.386	17.404	17.304	17.237	17.208	17.204	17.223	17.240	17.252	17.308	17.400	17.433
EXISTING SURFACE	17.484	17.482	17.449	17.403	17.416	17.349	17.295	17.270	17.243	17.273	17.284	17.301	17.359	17.429	17.474
CHAINAGE	300.000	303.703	310.000	320.000	330.000	340.000	350.000	360.000	370.000	380.000	390.000	400.000	410.000	420.000	430.000

Temporary Swale STG 24 Modified LONGITUDINAL SECTION CONT.

VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM RL12

DESIGN CENTRELINE	15.400	15.316	15.232	15.148	15.064	14.980	14.896	14.812
EXISTING SURFACE AT RIGHT BOUNDARY	17.589	17.544	17.515	17.493	17.442	17.422	17.376	17.315
EXISTING SURFACE AT LEFT BOUNDARY	17.547	17.517	17.473	17.484	17.441	17.405	17.279	17.211
EXISTING SURFACE	17.581	17.556	17.512	17.481	17.435	17.426	17.332	17.261
CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000

Temporary Swale 4 LONGITUDINAL SECTION

VERTICAL GEOMETRY
HORIZONTAL GEOMETRY
DATUM RL13

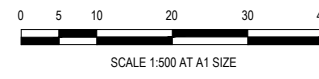
DESIGN CENTRELINE	16.300	16.118	15.936	15.755
EXISTING SURFACE AT RIGHT BOUNDARY	17.844	17.786	17.728	17.695
EXISTING SURFACE AT LEFT BOUNDARY	17.801	17.881	17.841	17.826
EXISTING SURFACE	17.824	17.734	17.687	17.683
CHAINAGE	0.000	10.000	20.000	30.000

Temporary Swale 5 LONGITUDINAL SECTION

City of Casey
 Approved By: **Timothy Sinnappu**
 Planning Ref: **PA21-0704**
 Council Ref: **R6138**
 SD&E Ref: **SEng00200/23**
 Date: **5/8/2024**
 Approval subject to below conditions on cover page

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Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: L.MURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No: F3003606
 Date: 27.11.2023
 PS Number: PS919014R

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

Project Details
 SMITHS LANE
 STAGE 28
 CITY OF CASEY

Drawing Title
 TEMPORARY SWALE
 LONGITUDINAL SECTIONS
 (SHEET 2 OF 2)

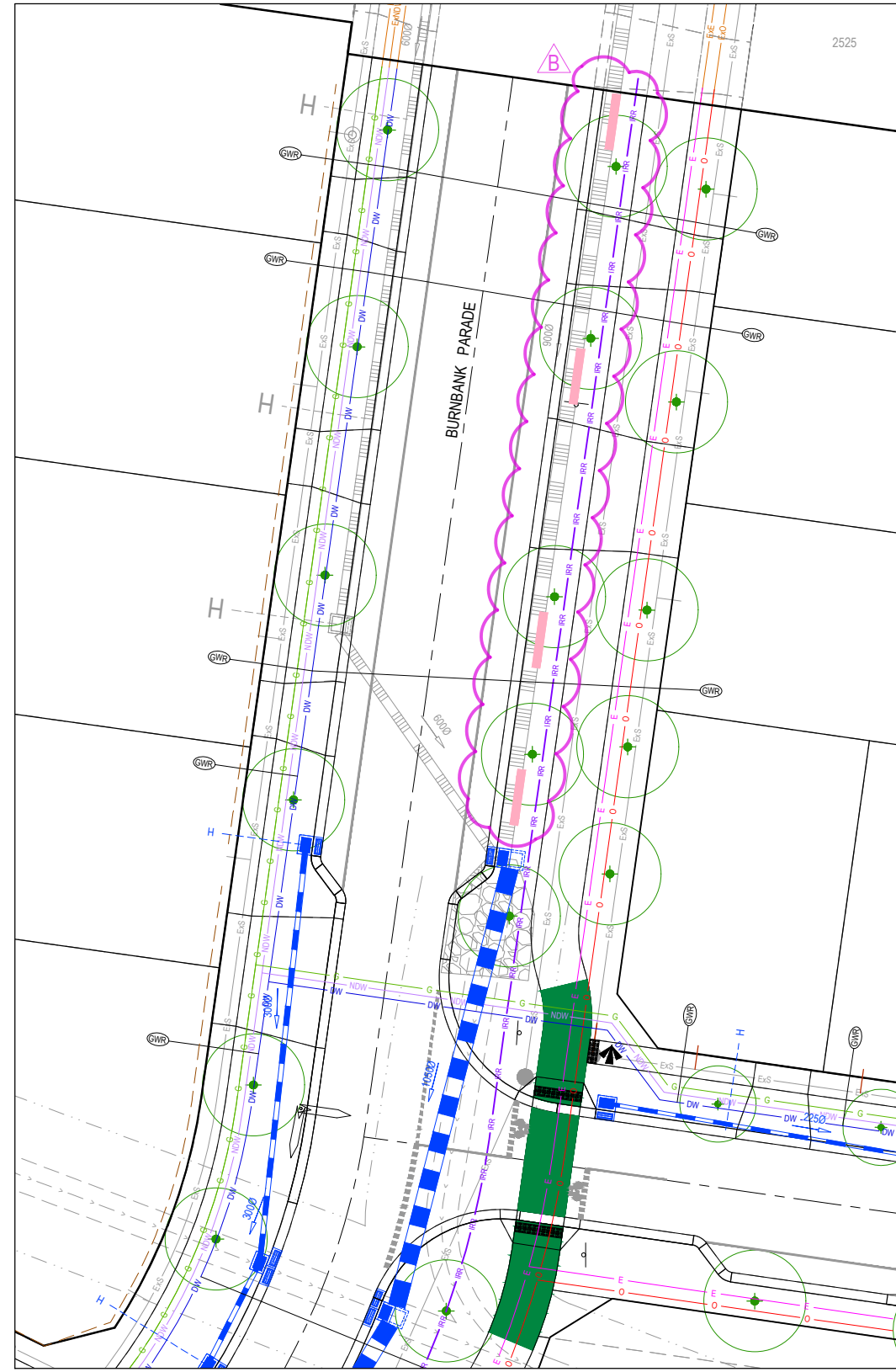
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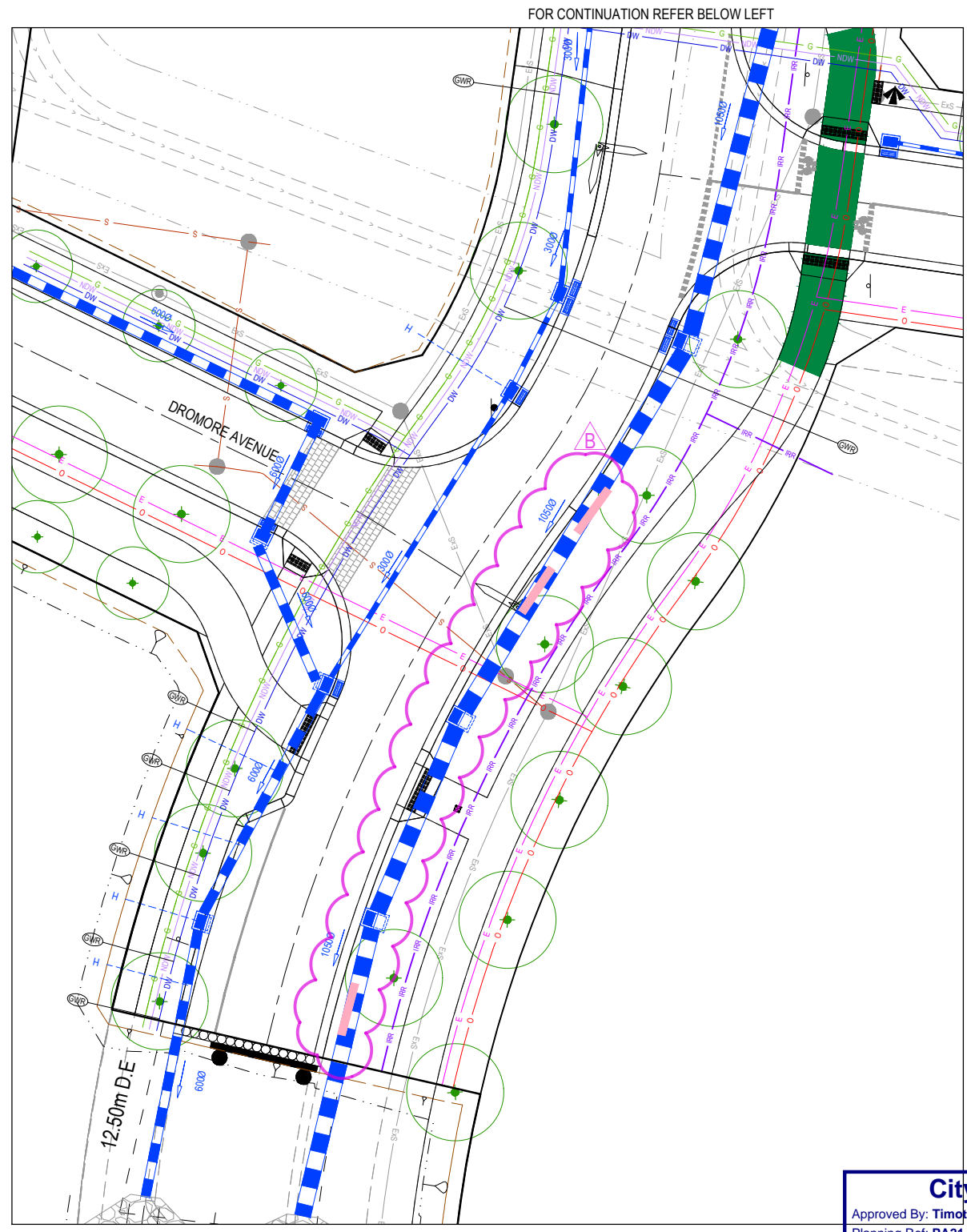
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 Stage No: 28
 Drawing No: 451
 Rev: B

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LEGEND
 ROAD RUN OFF PASSIVE IRRIGATION (3.5m L x 0.5m W x 0.55m D)
 LOT RUNOFF PASSIVE IRRIGATION (3.5m L x 0.5m W x 0.55m D)



FOR CONTINUATION REFER ABOVE RIGHT



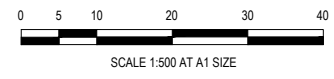
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NOTE:
 TREE AND IRRIGATION PIT LOCATIONS ARE INDICATIVE UNTIL TREE LOCATIONS ARE RECEIVED FROM LANDSCAPERS. DETAIL IS ALSO INDICATIVE UNTIL IWMP IS RECEIVED.

City of Casey
 Approved By: Timothy Sinnappu
 Planning Ref: PA21-0704
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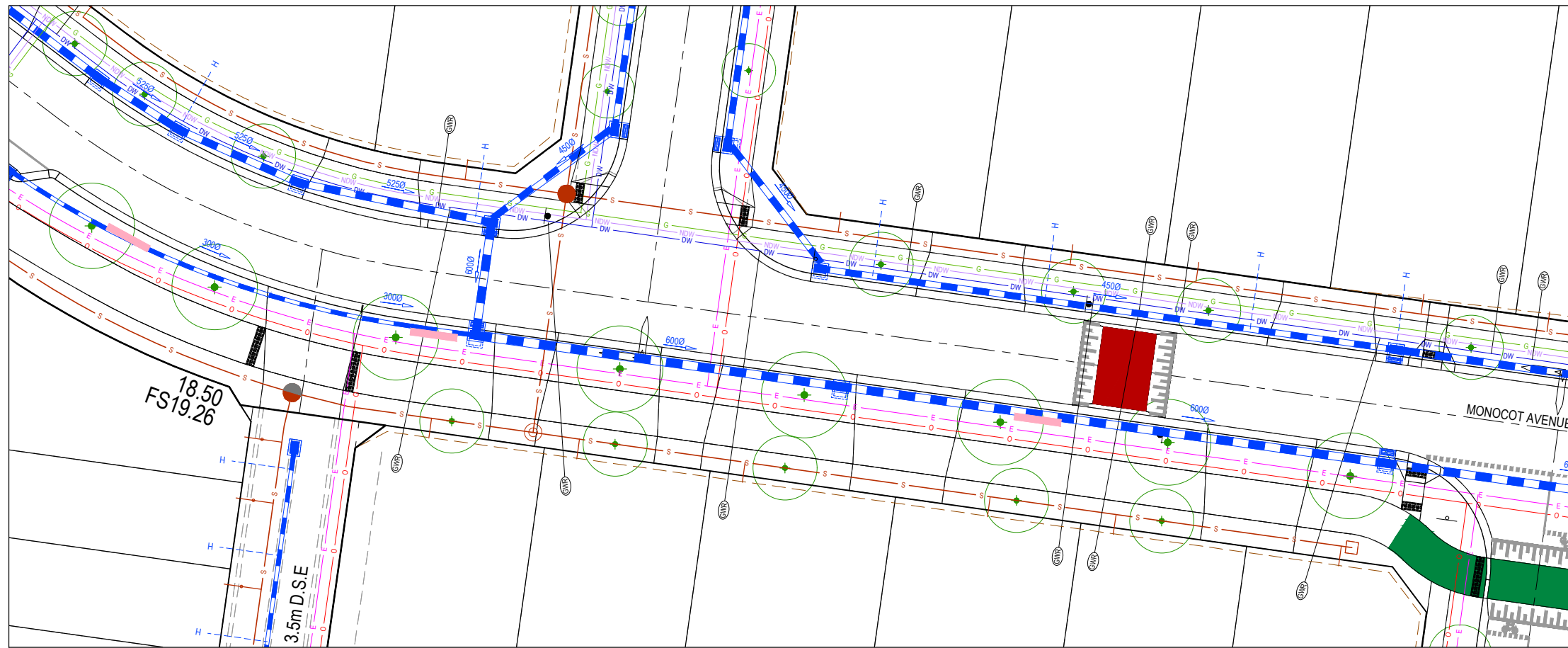
Designed: B.PAPPALARDO
 Date: 19.10.2023
 Drawn: M.F. JAURIGUE
 Checked: LMURRAY
 Date: 24.11.2023
 Approved: S.YOUNG
 Reg. No. (P2003608)
 Date: 27.11.2023
 PS Number: PS919014R

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

Project Details: SMITHS LANE STAGE 28 CITY OF CASEY
 Drawing Title: PASSIVE IRRIGATION BURNBANK PARADE

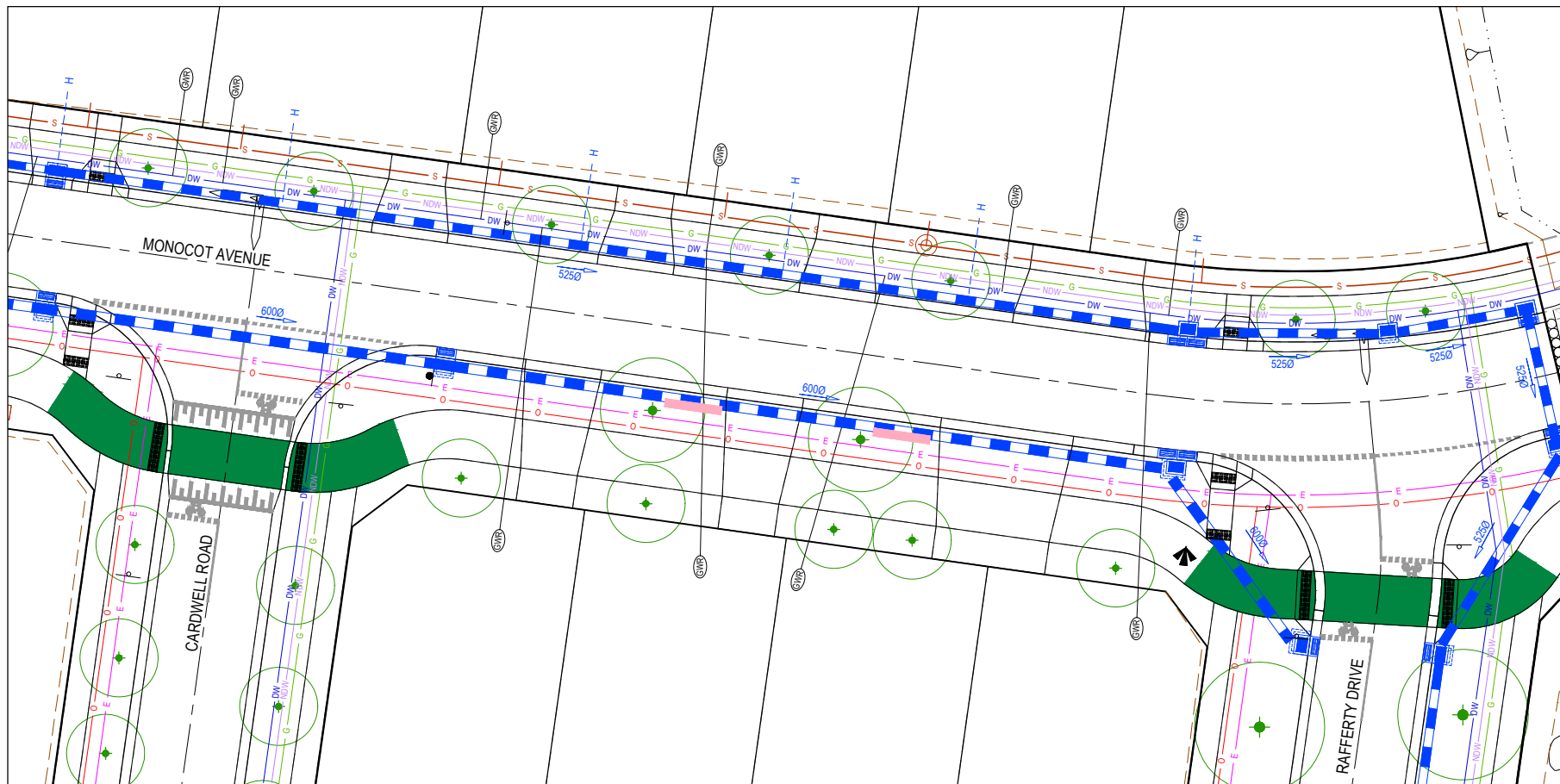
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 Project Ref: 1101438
 Stage No: 28
 Drawing No: 460
 Rev: B

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 LOT RUNOFF PASSIVE IRRIGATION (3.5m L x 0.5m W x 0.55m D)

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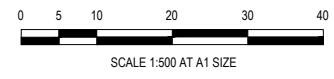
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City of Casey
 Approved By: Timothy Sinnappu
 Planning Ref: PA21-0704
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 1 Glenferrie Road
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Project Details
 SMITHS LANE
 STAGE 28
 CITY OF CASEY

Drawing Title
 PASSIVE IRRIGATION
 MONOCOT AVENUE

Sheet 38 of 39

Scale
 1:500 @ A1

Project Ref: 1101438
 Stage No: 28
 Drawing No: 461
 Rev: A



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