

# RIVERFIELD SQUARE - STAGE 35

## BROWN PROPERTY GROUP

### CITY OF CASEY

#### CONSTRUCTION NOTES

##### SITE MANAGEMENT

- A1. Prior to commencement of works on site, the contractor must ensure that all matters relating to the Occupational Health & Safety Act 2004, including all relevant regulations, have been addressed. In particular, the required notifications must be conveyed to the Worksafe Victoria - Health & Safety division with respect to trenching operations. Details of the contractors occupational health & safety procedures must be lodged with the superintendent prior to commencement of works.
- A2. All native trees & shrubs to be retained unless road construction necessitates their removal or removal is directed by the engineer. A town planning permit is required for the removal of native trees & / or vegetation. The removal or retention of any existing trees must be in accordance with the approved landscape plan, or else approval will be required from the 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 7251/08/203) along extent of outfall drain where the drain is greater than 1.5m in depth & side slopes are steeper than 1 in 3. Safety fence to remain until permanent underground drainage is installed.
- A6. Contractor to remove existing irrigation & drainage pipes & pits encountered on site. Trenches to be backfilled in accordance with notes C2 & C3.

##### GENERAL

- B1. All works to be carried out in accordance with AS2142-1992 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 (2017) & undertake safety precautions in trenching operations in accordance with Worksafe Compliance Code - Excavations Edition 2, December 2019.
- B4. Lots to be graded (1 in 150 min slope) & left clean to the satisfaction of the engineer. Finished levels to be compatible with lots adjoining this stage.
- B5. On completion the contractor is responsible for the removal of all rubbish & spoil from site. No surplus trees, vegetation or other material is to be burnt on site.
- B6. Reserves to be free draining & to be left in a condition satisfactory to the 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.

##### ROADWORKS

- C1. 100e 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. 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. Opticom 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 AS1428.4.1: 2009.4 & VicRoads Supplementary Standard TEM Vol 2 Part 2.2.3. Product must be DTP approved in accordance with DTP RDN 06-05. Adhesive TGSi must not be used.

##### DRAINAGE

- D1. Drainage & pits to be set out from offsets shown rather than from centreline pipe chainages.
- D2. Lightweight fibreglass type pit lids are required for all drainage pits & all grates for pits are to be Class D, to comply with AS3996 - 2019 unless otherwise shown. All drainage works are to be constructed to council specifications.
- D3. All pipes up to and including 750mm in diameter shall be rubber ring jointed (RRJ). Pipes above this size may be flush jointed with external sealing bands. For pipes greater than 900mm and changes in direction between 2 connecting pipes exceeding 10° construct segmented curves using splayed pipes with bandage joints, having deflections within the manufacturer's specification.
- D4. All pipes to be Class '2' R.C. unless noted otherwise. PVC pipes to be Class SH unless specified.
- D5. Pipe trenches beneath the road pavement, footpath or within 150mm of the kerb & channel to be backfilled with 20mm Class 3 FCR in 150mm layers.
- D6. Property inlets to be constructed as per MPA standard drawing EDCM 701 - EDCM 704.
- D7. All proposed drainage stubs to be blanked off at end of pipe with timber planks to the satisfaction of the supervising engineer.

##### PAVEMENT

- E1. Modification of the pavement requires approval by the City of Casey works supervisor.

##### COUNCIL

- F1. As constructed plans and electronic asset information in D-Spec and R-Spec format must be submitted to Council prior to practical completion.
- F2. A CCTV report must be provided for all drainage lines prior to issue of practical completion.
- F3. Street lighting must be provided on all newly created roads and reserves including all intersections, speed humps and LTM devices in accordance with the approved public lighting plan.
- F4. 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 this TMP.

##### Survey Origin:

Coordinates are on a local plane datum based upon MGA Zone 55 bearings and truncated MGA Zone 55 co-ordinates at PM103 (CRANBOURNE).  
Heights are to AHD vide Permanent Mark PM 52 (SHERWOOD) RL 8.611.

Plane Grid Coordinates to MGA2020 Zone 55 Grid Coordinates Conversion.  
(PLANE SHIFT) Add + 350,000.471 to Eastings  
Add + 5,700,001.511 to Northings

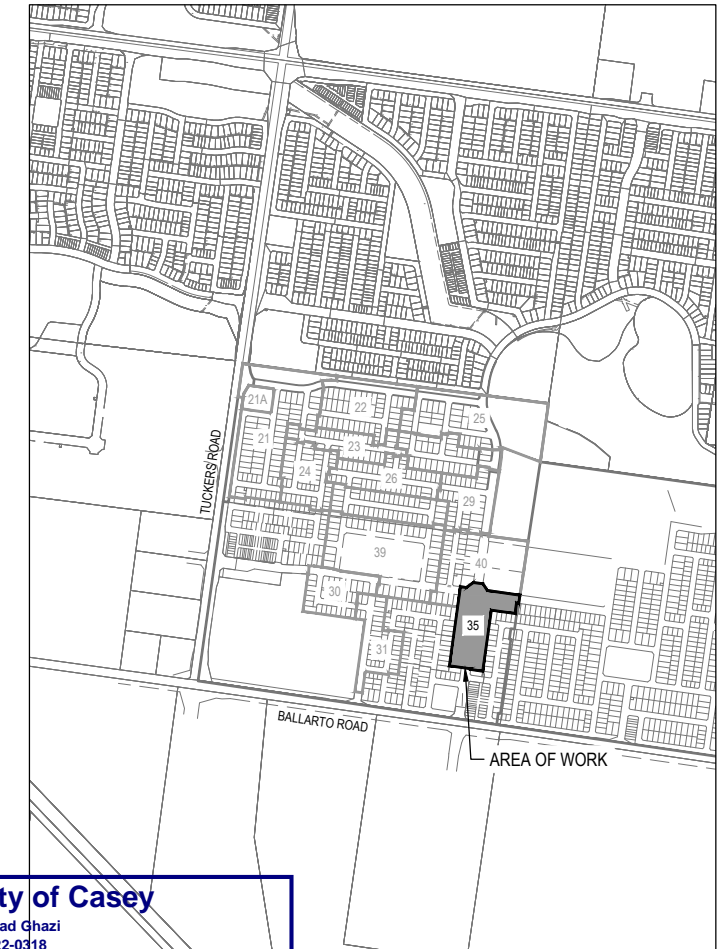
(APPLY SCALE FACTOR) Scale by 0.999861 at point PM103

#### DRAWING INDEX

DRAWING No.	TITLE	REVISION
2101578-35-001	COVER SHEET	A
2101578-35-002	TYPICAL ROAD CROSS SECTIONS	A
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2101578-35-010	LAYOUT PLAN	A
2101578-35-100	ROAD LONGITUDINAL SECTIONS VIRIDIAN BOULEVARD	A
2101578-35-101	ROAD LONGITUDINAL SECTIONS ERNSTBROOK DRIVE	A
2101578-35-200	ROAD CROSS SECTIONS VIRIDIAN BOULEVARD	A
2101578-35-201	ROAD CROSS SECTIONS ERNSTBROOK DRIVE (SHEET 1 OF 4)	A
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177-01-S04	MA CIVIL DESIGN RETAINING WALL DETAILS (SHEET 4)	P1

#### TBM SCHEDULE

TBM/PSM	EASTING	NORTHING	LEVEL	DESCRIPTION
TBM MA6	4850.46	78259.87	27.97	STEEL PICKET
TBM DR6	4825.94	78161.94	26.59	STEEL PICKET
TBM DR19	5359.48	78196.66	21.77	STEEL PICKET
TBM DR20	4982.89	78175.00	23.84	STEEL PICKET
TBM DR22	5069.42	78086.46	21.89	STEEL PICKET
TBM DR23	5357.54	78052.09	21.27	STEEL PICKET
TBM DR44	5052.46	78289.97	22.40	STEEL PICKET



#### City of Casey

Approved By: **Irshad Ghazi**  
Planning Ref: **PA22-0318**  
File No: **SEng0012725**  
Council Ref: **R6381**  
Date: **4/03/2026**

#### Approved 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.
- Before starting any work, the contractor must contact Council's Construction Supervision Team on 9705 5200 to arrange Council supervision of the works.
- PDF copy of the "As-constructed" engineering plans must be submitted to engineeringplans@casey.vic.gov.au with references to Council reference numbers.
- A CCTV report must be submitted to the Council supervisor and Subdivisions/Construction@casey.vic.gov.au for all drainage lines prior to issue of practical completion.
- As-constructed plans and asset information (A-SPEC format) must be provided to Council's satisfaction before statement of compliance will be issued. Grid Coordinates must be MGA Zone 55 (GDA 2020).

#### SITE PLAN

NOT TO SCALE  
MELWAY REF: 135 E11

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					

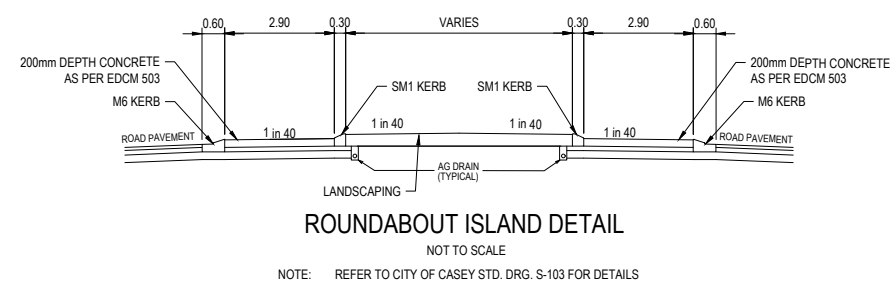
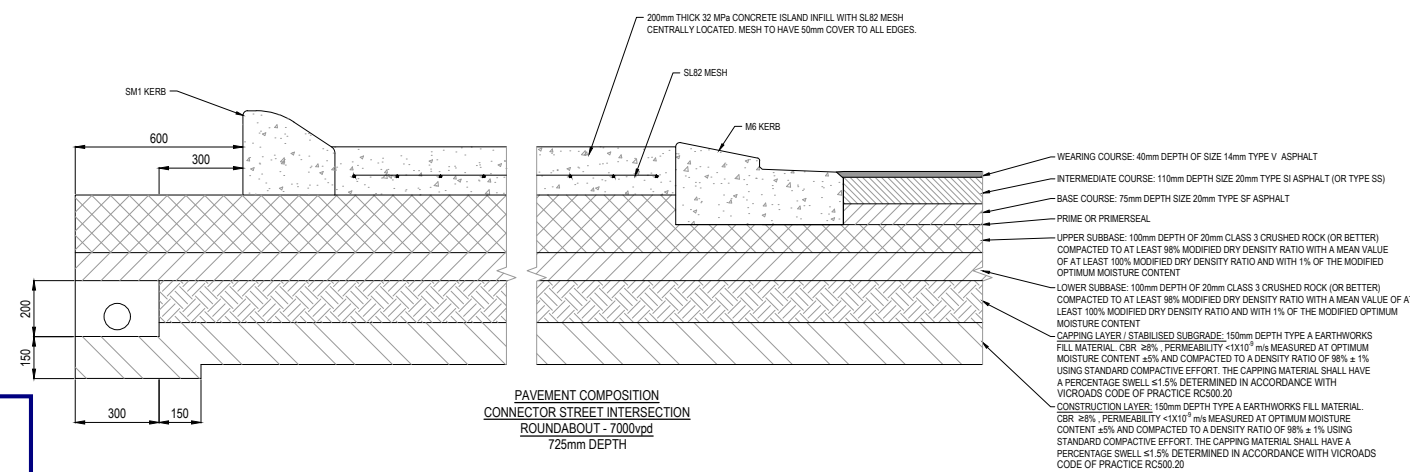
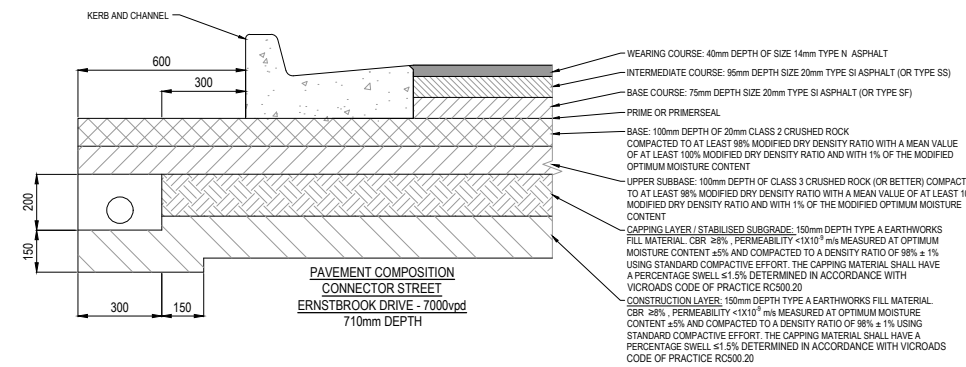
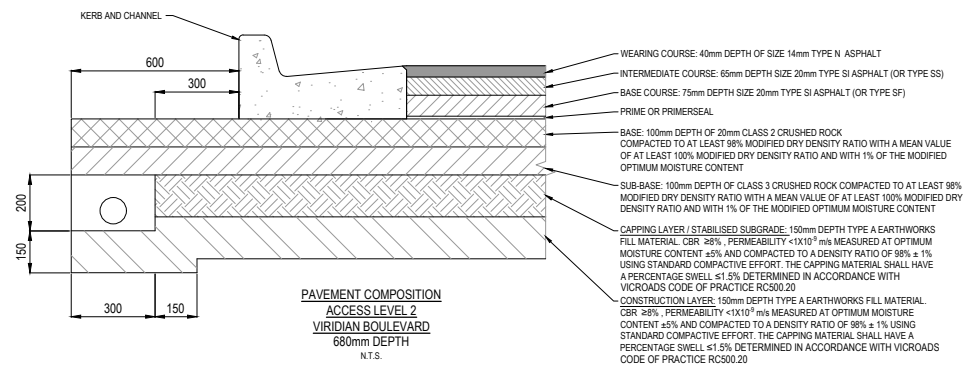
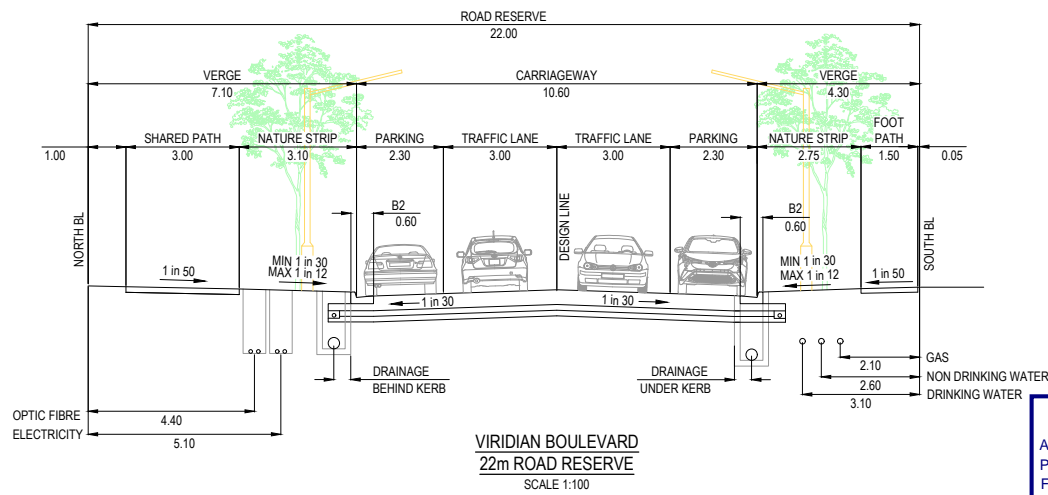
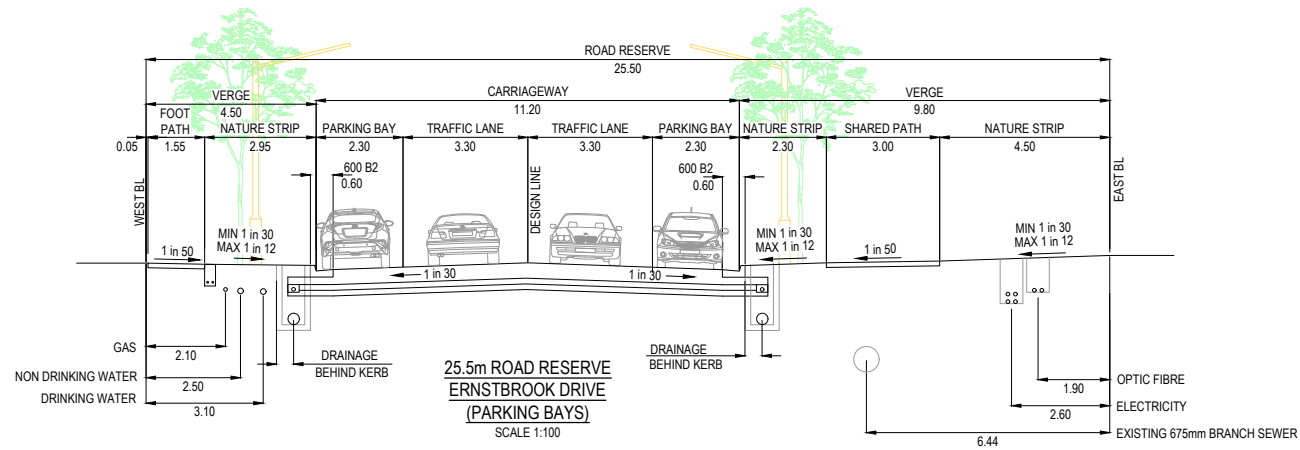
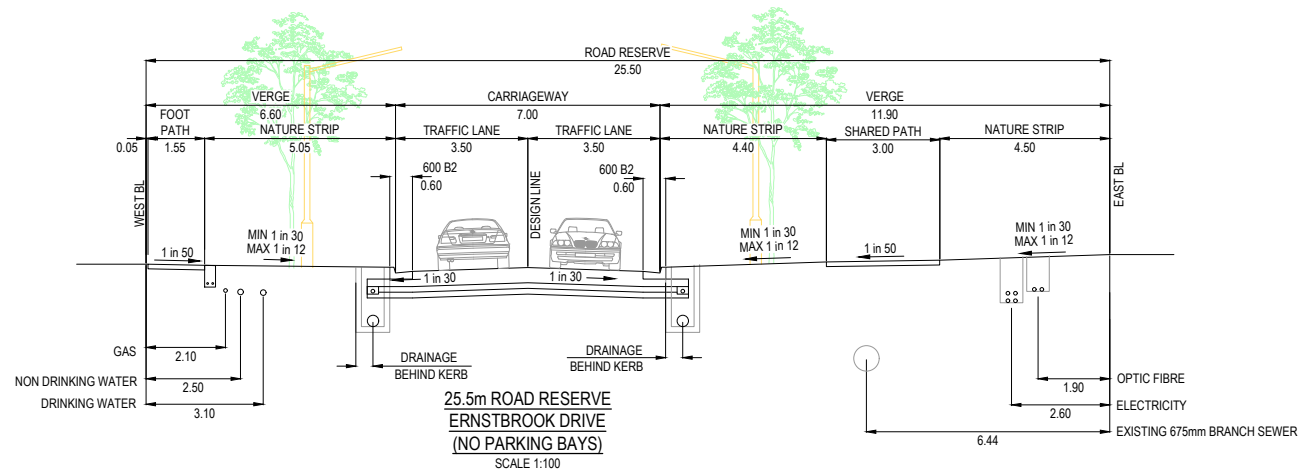


Designed K. LIM WAN  
Date 29.07.2025  
Drawn M.F. JAURIGUE  
Checked A. PHILALAY  
Date 01.08.2025  
Approved A. PHILALAY  
Reg. No. PE0130714  
Date 01.08.2025  
PS Number PSS33889S

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Project Details  
RIVERFIELD  
STAGE 35  
CITY OF CASEY  
Drawing Title  
COVER SHEET

Sheet 01 of 21  
Scale AS SHOWN  
Project Ref 2101578  
Stage No 35  
Drawing No 001  
Rev A



**City of Casey**

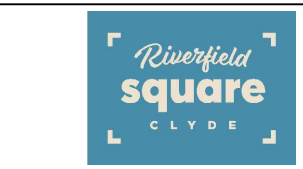
Approved By: **Irshad Ghazi**  
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File No: **SEng00127/25**  
Council Ref: **R6381**  
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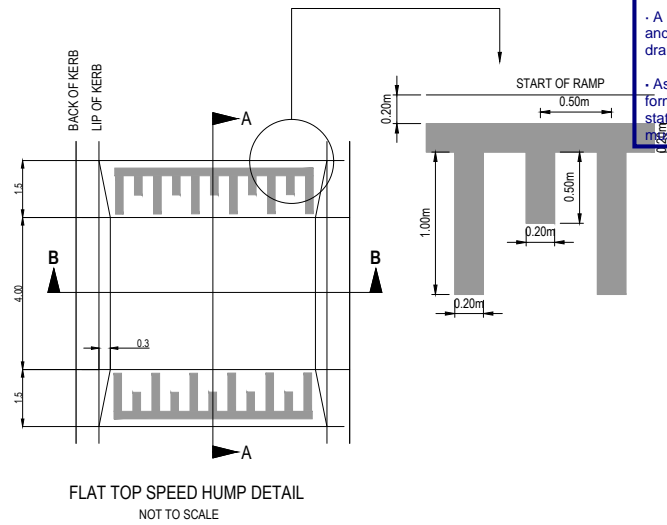
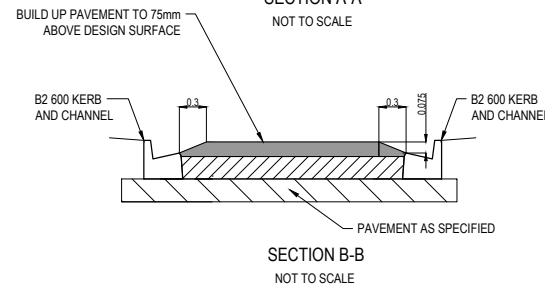
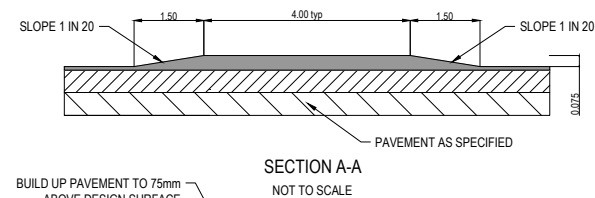
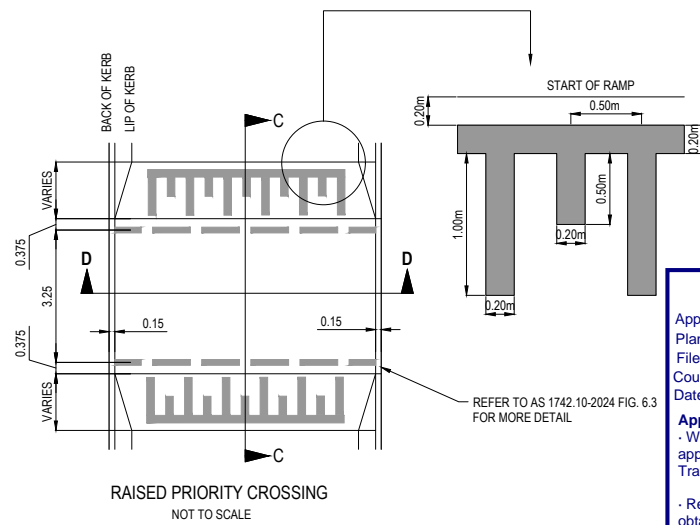
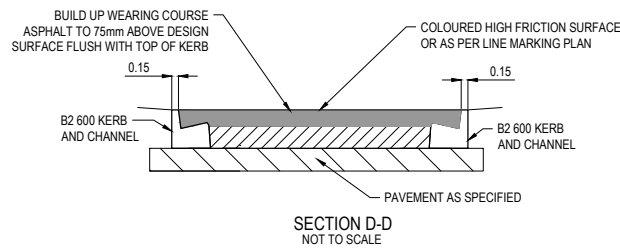
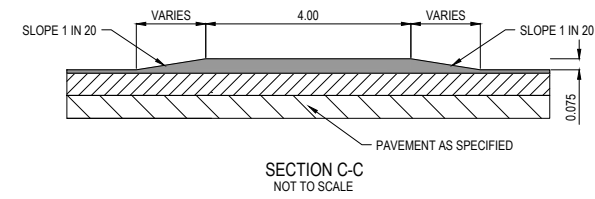
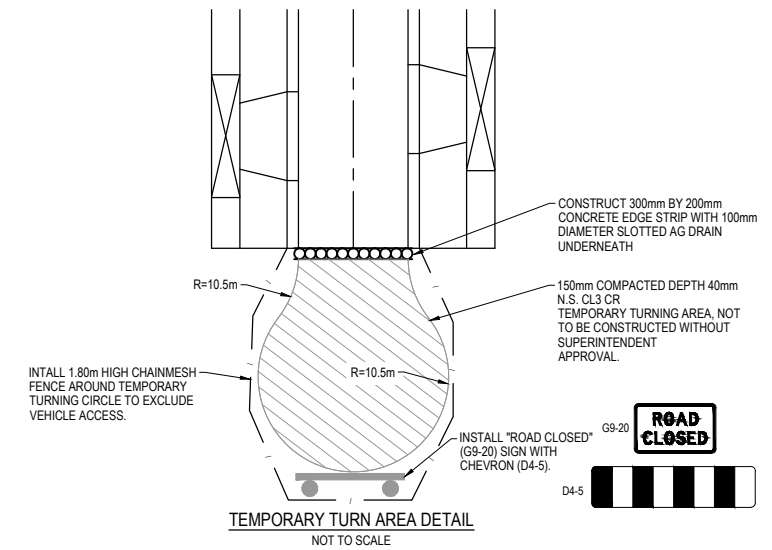
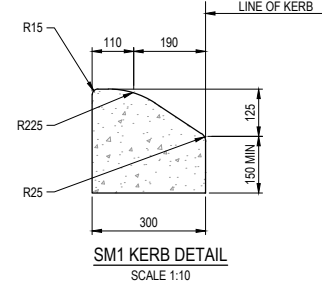
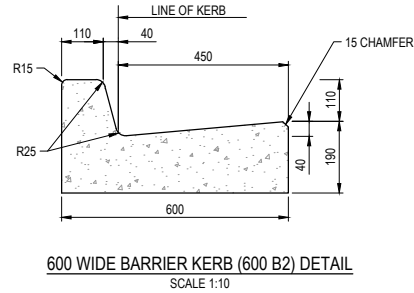
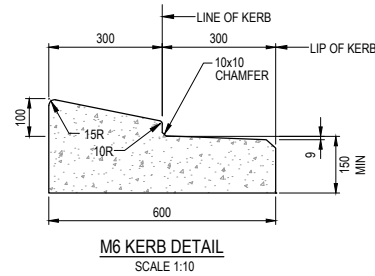
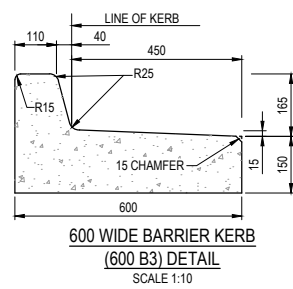


Designed: **K. LIM WAN**  
Date: 29.07.2025  
Drawn: **M.F. JAURIGUE**  
Checked: **A. PHILALAY**  
Date: 01.08.2025  
Approved: **A. PHILALAY**  
Reg. No: PE0132014  
Date: 01.08.2025  
PS Number: P5933889S

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Project: **RIVERFIELD STAGE 35 CITY OF CASEY**  
Drawing Title: **TYPICAL ROAD CROSS SECTIONS**

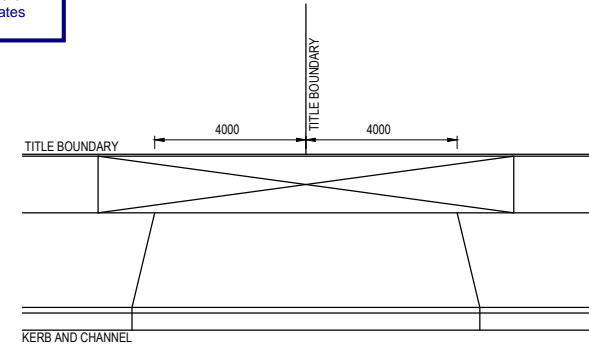
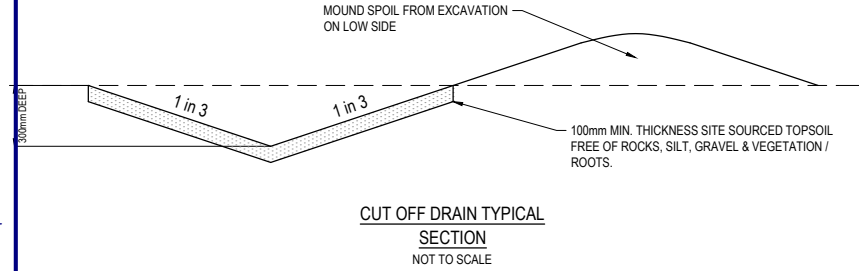
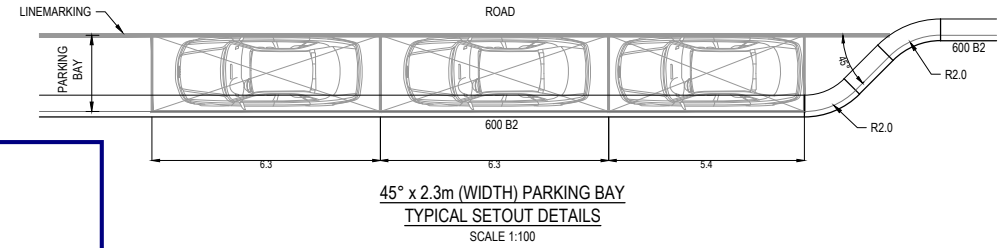
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Project Ref: <b>2101578</b>	Stage No: <b>35</b>
Drawing No: <b>002</b>	Rev: <b>A</b>



**City of Casey**  
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 Planning Ref: **PA22-0318**  
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NOTES  
 1. REFER TO EDCM 502 FOR FURTHER DETAILS  
**8.0m DOUBLE VEHICLE CROSSING DETAIL**  
 NOT TO SCALE

**ISSUED FOR CONSTRUCTION**

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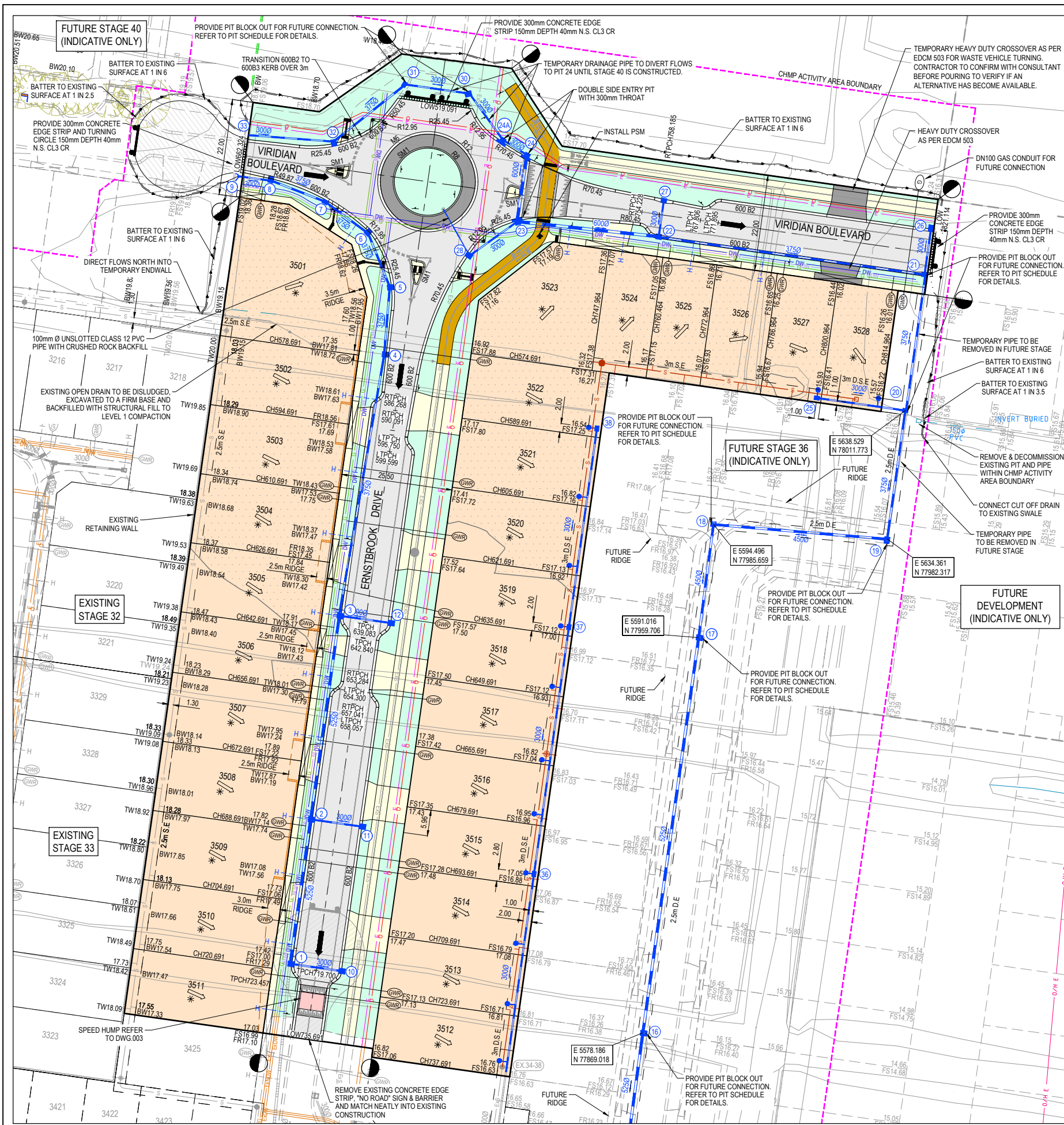


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 Checked: **A. PHILALAY**  
 Date: 01.08.2025  
 Approved: **A. PHILALAY**  
 Reg. No: PE0012014  
 Date: 01.08.2025  
 PS Number: PSS933889S

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Project Details: **RIVERFIELD STAGE 35 CITY OF CASEY**  
 Drawing Title: **PAVEMENT MAKEUP & GENERAL DETAILS**

Sheet <b>03</b> of <b>21</b>	
Scale: <b>AS SHOWN</b>	
Project Ref: <b>2101578</b>	Stage No: <b>35</b>
Drawing No: <b>003</b>	Rev: <b>A</b>



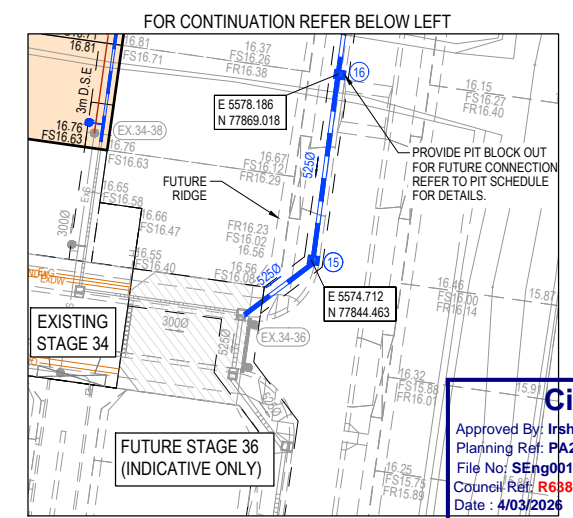
NOTE:  
1. PASSIVE IRRIGATION PRESENT IN THIS STAGE. REFER TO DWG 2101578-35-480-IRR FOR DETAILS.

**LEGEND:**

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



**City of Casey**  
Approved By: **Irshad Ghazi**  
Planning Ref: **PA22-0318**  
File No: **SENG0012725**  
Council Ref: **R6881**  
Date: **4/03/2024**

**Approval subject to below conditions:**

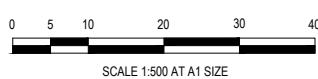
- Works are to be carried out in accordance with an approved Environmental Management Plan (EMP) and Traffic Management Plan (TMP).
- Relevant service authorities notification and approval is obtained.
- Before starting any work, the contractor must contact Council's Construction Supervision Team on 9705 5200 to arrange Council supervision of the works.
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SERVICE OFFSET TABLE

Location	Gas		ND - Water		Water		Electricity		Telecommunication		Sewer	
	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)
ERNSTBROOK DRIVE	W	2.10	W	2.60	W	3.10	E	2.60	E	1.90	E	Ex 6.44
VIRIDIAN BOULEVARD	S	2.10	S	2.60	S	3.10	N	5.10	N	4.40	-	-

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

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



**ISSUED FOR CONSTRUCTION**

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REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	04.03.24	LS	AP					



Designed Date: 29.07.2025  
Drawn: M.F. JAURIGUE  
Checked Date: 01.08.2025  
Approved: A.PHILALAY PEO130914  
Date: 01.08.2025  
PS Number: PSS33889S

**BW Beveridge Williams**  
Development & Infrastructure Consultants  
1 Glenferrie Road Malvern VIC 3144  
ph: 03 9524 8888  
[www.beveridgewilliams.com.au](http://www.beveridgewilliams.com.au)

Project Details: RIVERFIELD STAGE 35 CITY OF CASEY  
Drawing Title: LAYOUT PLAN

Project Ref: 2101578  
Stage No: 35  
Drawing No: 010  
Rev: A

Sheet 04 of 21  
Scale: 1:500 @ A1

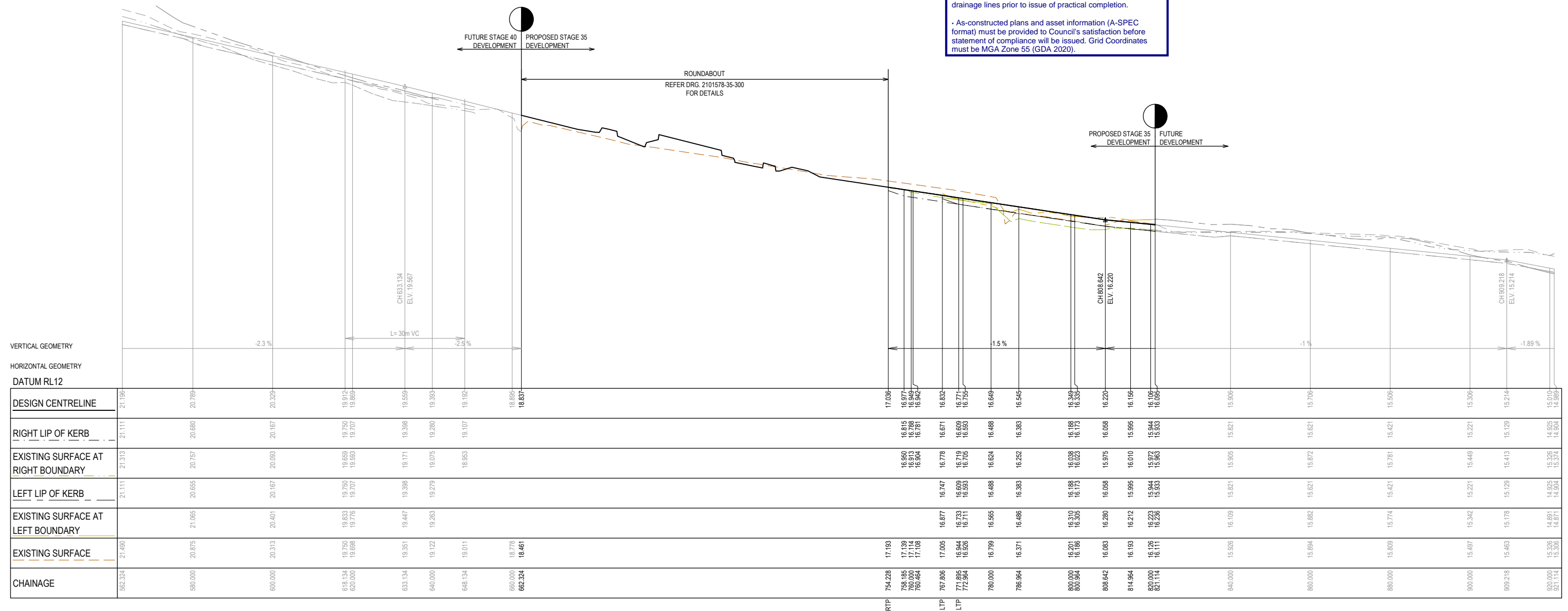
LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB

**City of Casey**

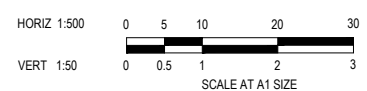
Approved By: **Irshad Ghazi**  
 Planning Ref: **PA22-0318**  
 File No: **SEng00127/25**  
 Council Ref: **R6381**  
 Date: **4/03/2026**

**Approval subject to below conditions:**

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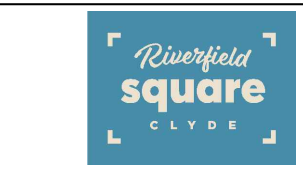


**VRIDIAN BOULEVARD - LONGITUDINAL SECTION**



**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



Designed By: **K. LIM WAN**  
 Date: 29.07.2025  
 Drawn By: **M.F. JAURIGUE**  
 Checked By: **A. PHILALAY**  
 Date: 01.08.2025  
 Approved By: **A. PHILALAY**  
 Reg. No: PE0013074  
 Date: 01.08.2025  
 PS Number: PSS33889S

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

Project Details  
**RIVERFIELD STAGE 35 CITY OF CASEY**

Drawing Title  
**ROAD LONGITUDINAL SECTIONS VRIDIAN BOULEVARD**

Sheet 05 of 21			
Scale 1:500 H 1:50 V @ A1			
Project Ref	Stage No	Drawing No	Rev
2101578	35	100	A

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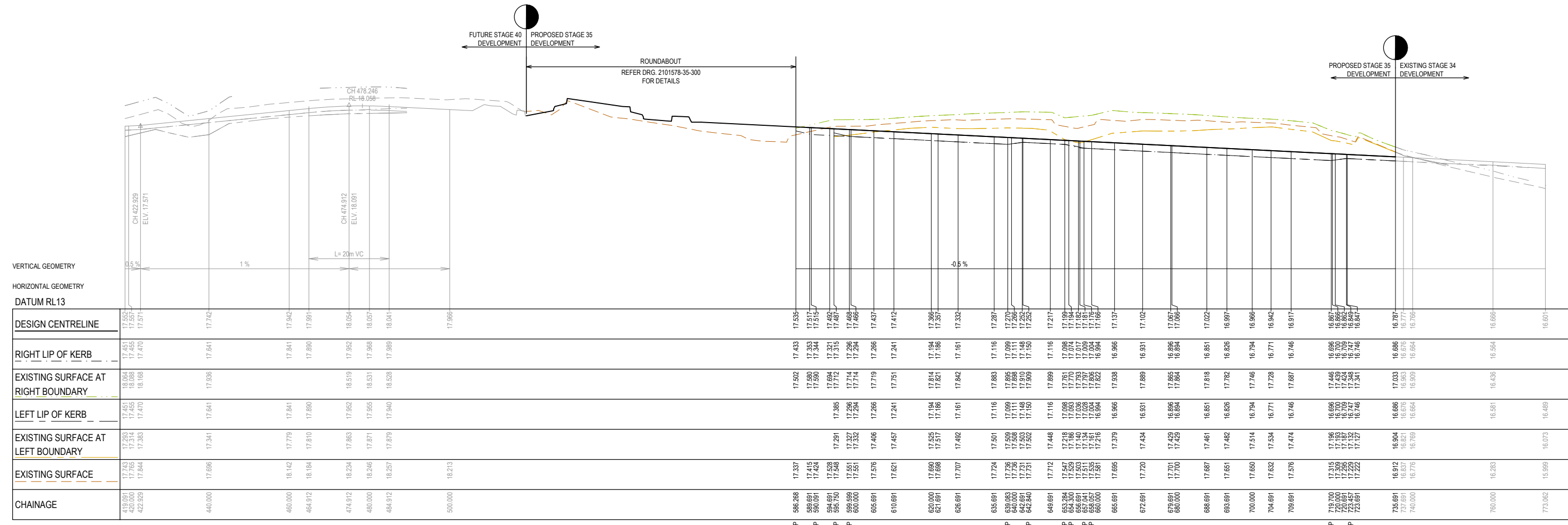
LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	FUTURE DESIGN LINE
	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB

**City of Casey**

Approved By: **Irshad Ghazi**  
 Planning Ref: **PA22-0318**  
 File No: **SEng00127/25**  
 Council Ref: **R6381**  
 Date: **4/03/2026**

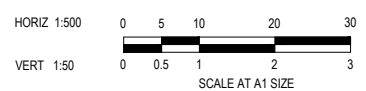
**Approval subject to below conditions:**

- Works are to be carried out in accordance with an approved Environmental Management Plan (EMP) and Traffic Management Plan (TMP).
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- As-constructed plans and asset information (A-SPEC format) must be provided to Council's satisfaction before statement of compliance will be issued. Grid Coordinates must be MGA Zone 55 (GDA 2020).



	419.091	420.000	422.929	440.000	460.000	464.912	474.912	480.000	484.912	500.000	586.266	589.691	590.091	591.691	596.750	598.599	600.000	605.691	610.691	620.000	621.691	626.691	635.691	639.083	640.000	642.691	642.840	649.691	652.284	654.300	656.691	657.041	659.000	665.691	672.691	679.691	680.000	686.691	690.691	700.000	704.691	709.691	719.700	720.000	720.000	723.451	723.691	735.691	737.691	740.000	760.000	773.062
DESIGN CENTRELINE	17.552	17.551	17.571	17.742	17.942	17.991	18.054	18.057	18.041	17.966	17.535	17.517	17.344	17.515	17.492	17.467	17.468	17.437	17.412	17.366	17.351	17.332	17.287	17.270	17.266	17.252	17.217	17.194	17.184	17.182	17.181	17.166	17.137	17.102	17.067	17.066	17.022	16.997	16.966	16.942	16.917	16.867	16.851	16.849	16.847	16.787	16.777	16.756	16.666	16.601		
RIGHT LIP OF KERB	17.451	17.455	17.470	17.641	17.841	17.890	17.952	17.955	17.989	17.906	17.433	17.353	17.344	17.321	17.315	17.296	17.294	17.266	17.241	17.194	17.186	17.161	17.116	17.099	17.099	17.086	17.050	17.016	17.008	17.004	17.017	17.009	16.984	16.966	16.931	16.896	16.884	16.851	16.826	16.794	16.771	16.746	16.696	16.680	16.676	16.654	16.564	16.501				
EXISTING SURFACE AT RIGHT BOUNDARY	18.864	18.868	18.168	17.936	17.841	17.890	18.519	18.531	18.528	17.966	17.502	17.500	17.424	17.492	17.474	17.448	17.434	17.406	17.381	17.334	17.286	17.271	17.252	17.207	17.190	17.186	17.172	17.148	17.139	17.137	17.134	17.122	17.097	17.066	17.031	16.996	16.961	16.926	16.891	16.866	16.841	16.816	16.791	16.766	16.741	16.716	16.691	16.666	16.641			
LEFT LIP OF KERB	17.451	17.455	17.470	17.641	17.841	17.890	17.952	17.955	17.940	17.906	17.433	17.353	17.344	17.321	17.315	17.296	17.294	17.266	17.241	17.194	17.186	17.161	17.116	17.099	17.099	17.086	17.050	17.016	17.008	17.004	17.017	17.009	16.984	16.966	16.931	16.896	16.884	16.851	16.826	16.794	16.771	16.746	16.696	16.680	16.676	16.654	16.564	16.501				
EXISTING SURFACE AT LEFT BOUNDARY	17.293	17.314	17.303	17.341	17.779	17.810	17.863	17.871	17.879	17.823	17.337	17.415	17.424	17.426	17.436	17.432	17.431	17.406	17.381	17.334	17.286	17.271	17.252	17.207	17.190	17.186	17.172	17.148	17.139	17.137	17.134	17.122	17.097	17.066	17.031	16.996	16.961	16.926	16.891	16.866	16.841	16.816	16.791	16.766	16.741	16.716	16.691	16.666	16.641			
EXISTING SURFACE	17.743	17.765	17.641	17.696	18.142	18.184	18.234	18.246	18.257	18.213	17.337	17.415	17.424	17.426	17.436	17.432	17.431	17.406	17.381	17.334	17.286	17.271	17.252	17.207	17.190	17.186	17.172	17.148	17.139	17.137	17.134	17.122	17.097	17.066	17.031	16.996	16.961	16.926	16.891	16.866	16.841	16.816	16.791	16.766	16.741	16.716	16.691	16.666	16.641			
CHAINAGE	419.091	420.000	422.929	440.000	460.000	464.912	474.912	480.000	484.912	500.000	586.266	589.691	590.091	591.691	596.750	598.599	600.000	605.691	610.691	620.000	621.691	626.691	635.691	639.083	640.000	642.691	642.840	649.691	652.284	654.300	656.691	657.041	659.000	665.691	672.691	679.691	680.000	686.691	690.691	700.000	704.691	709.691	719.700	720.000	720.000	723.451	723.691	735.691	737.691	740.000	760.000	773.062

**ERNSTBROOK DRIVE - LONGITUDINAL SECTION**



**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN	APP.	REV	DESCRIPTION	DATE	DRN	APP.
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



Designed: **K. LIM WAN**  
 Date: 29.07.2025  
 Drawn: **M.F. JAURIGUE**  
 Checked: **A. PHILALAY**  
 Date: 01.08.2025  
 Approved: **A. PHILALAY**  
 Reg. No: PE0132014  
 Date: 01.08.2025  
 PS Number: PSS33889S

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

Project Details: **RIVERFIELD STAGE 35 CITY OF CASEY**

Drawing Title: **ROAD LONGITUDINAL SECTIONS ERNSTBROOK DRIVE**

Sheet <b>06</b> of <b>21</b>			
Scale: <b>1:500 H 1:50 V @ A1</b>			
Project Ref: <b>2101578</b>	Stage No: <b>35</b>	Drawing No: <b>101</b>	Rev: <b>A</b>

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### City of Casey

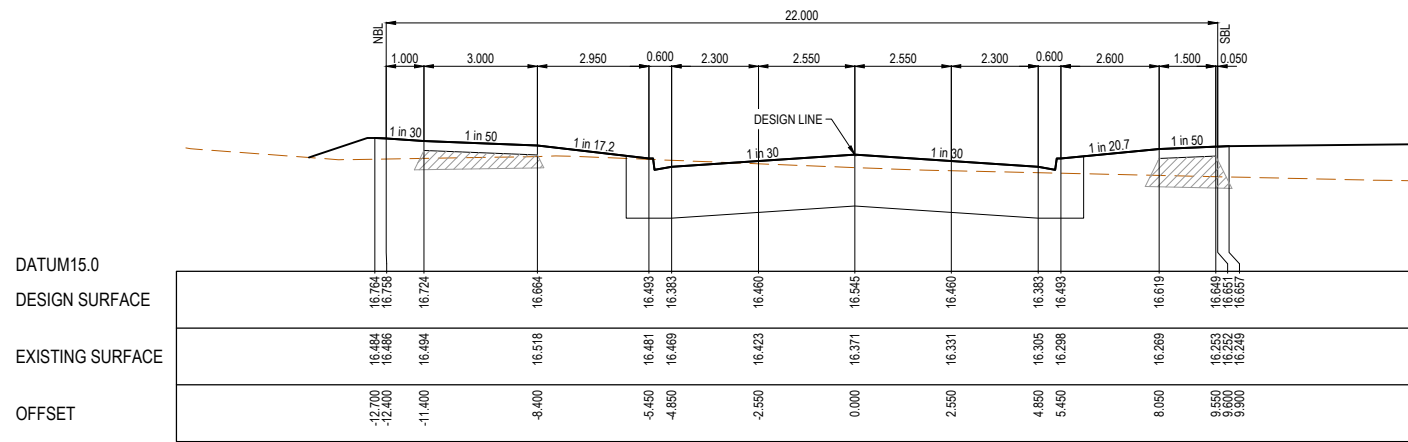
Approved By: **Irshad Ghazi**  
 Planning Ref: **PA22-0318**  
 File No: **SEng00127/25**  
 Council Ref: **R6381**  
 Date: **4/03/2026**

**Approval subject to below conditions:**

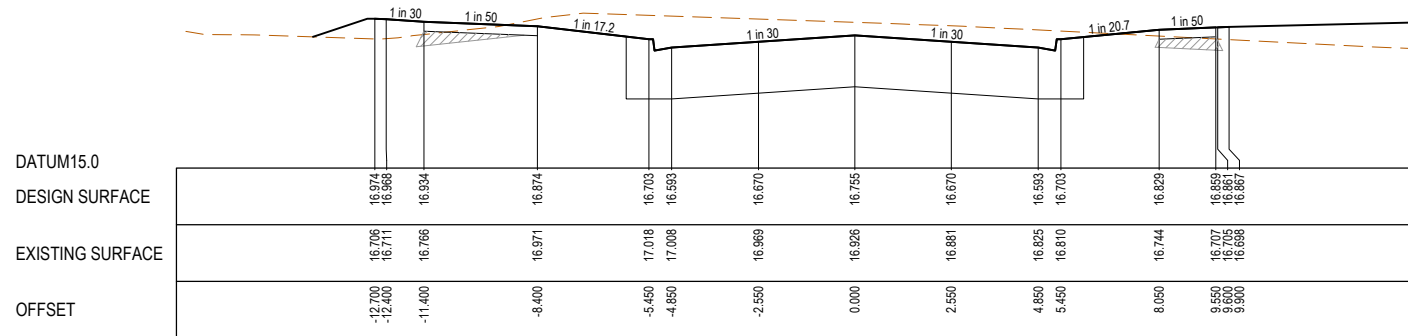
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STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

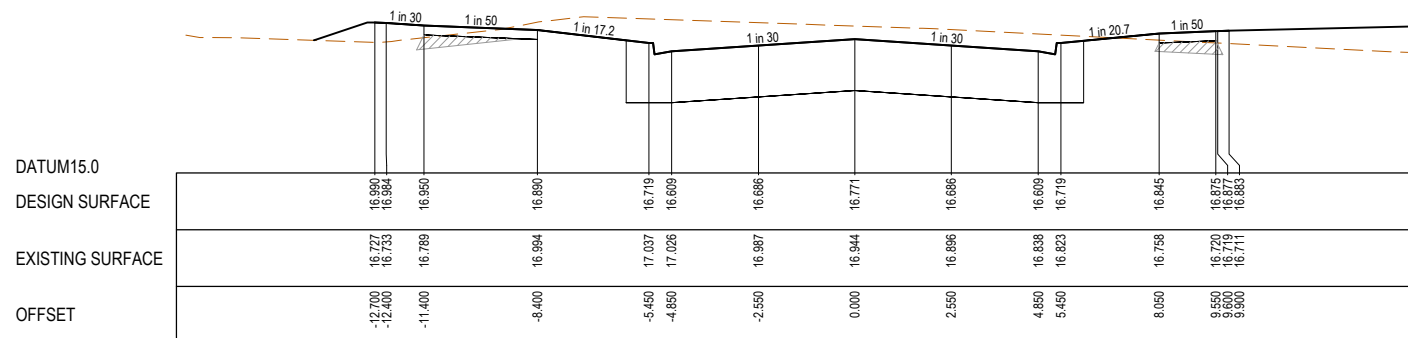
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	STRUCTURAL FILL



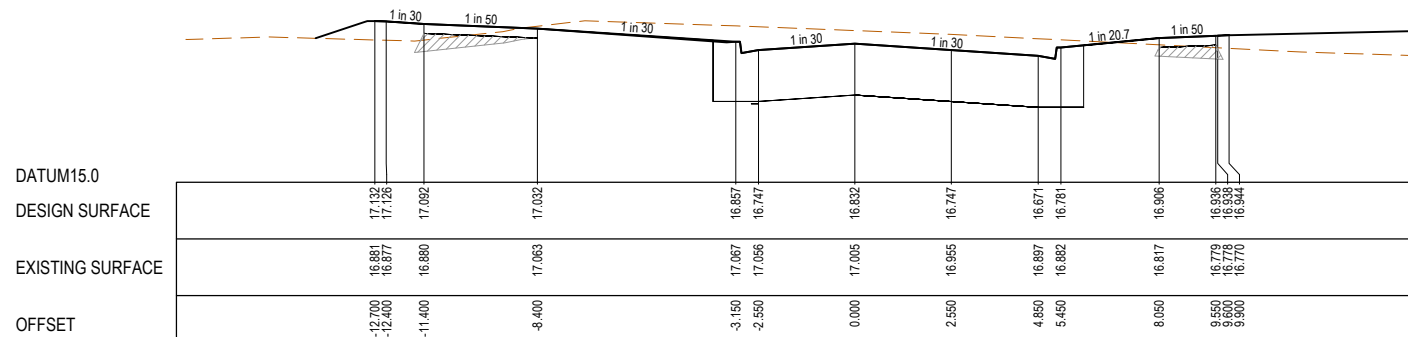
CH 786.964



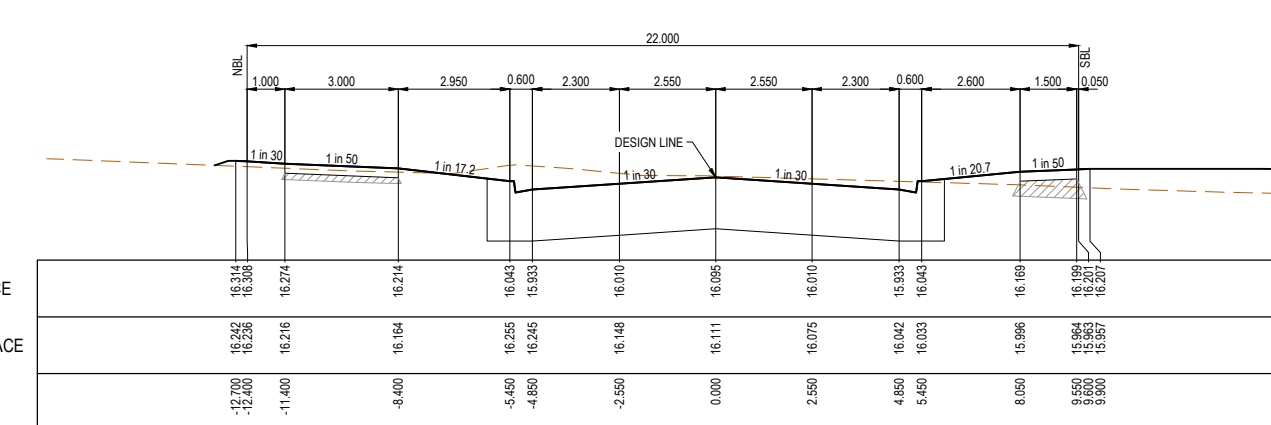
CH 772.964



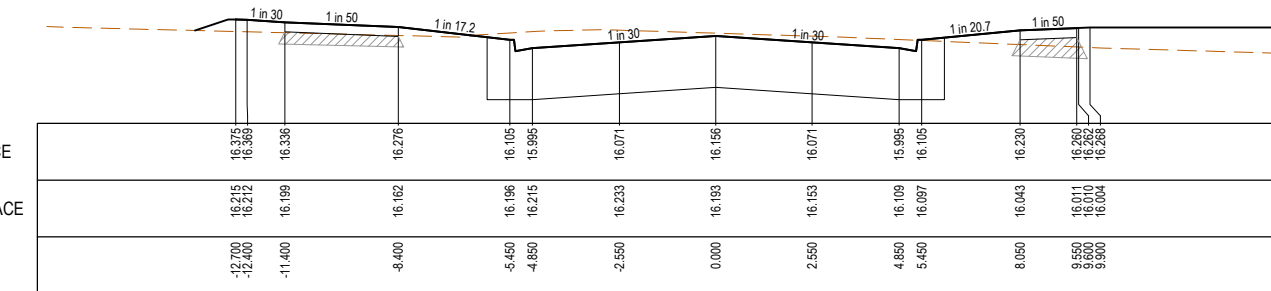
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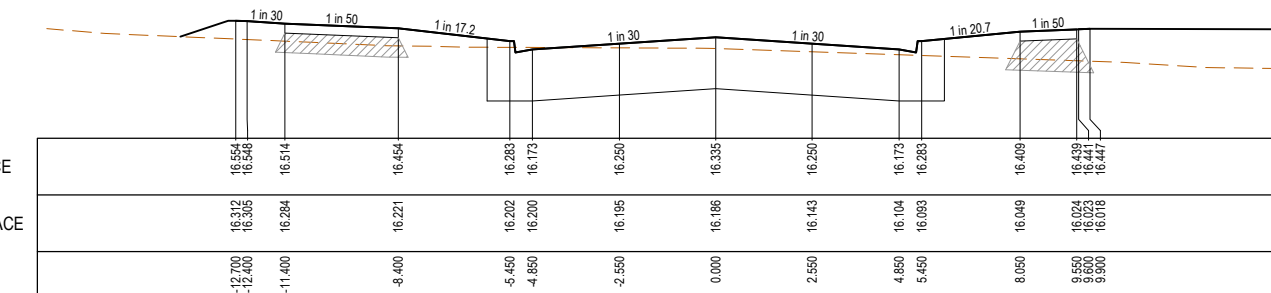
CH 767.806



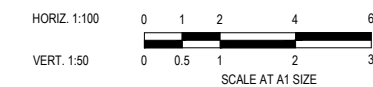
CH 821.114  
(LIMIT OF STAGE 35 WORKS)



CH 814.964



CH 800.964



ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



Designed: K. LIM WAN  
 Date: 29.07.2025  
 Drawn: M.F. JAURIGUE  
 Checked: A. PHILALAY  
 Date: 01.08.2025  
 Approved: A. PHILALAY  
 Reg. No: PE0013014  
 Date: 01.08.2025  
 PS Number: PSS33889S

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

Project: RIVERFIELD STAGE 35 CITY OF CASEY  
 Drawing Title: ROAD CROSS SECTIONS VIRIDIAN BOULEVARD

Sheet	07 of 21
Scale	1:100 H 1:50 V @ A1
Project Ref	2101578
Stage No	35
Drawing No	200
Rev	A

K:\jobs data\2101578 - Di Renzo - 1675 Ballarto Road, Clyde\_Eng\Stage 35\Drawings\2101578-35-200-RXS.dwg









FUTURE STAGE 40  
(INDICATIVE ONLY)

**City of Casey**

Approved By: **Irshad Ghazi**  
 Planning Ref: **PA22-0318**  
 File No: **SEng00127/25**  
 Council Ref: **R6381**  
 Date: **4/03/2026**

**Approval subject to below conditions:**

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**ALIGNMENT AU**

Point no	Easting	Northing	RL
AU1	5540.428	78064.243	17.683
AU2	5528.928	78075.743	17.959
AU3	5517.428	78064.243	18.050
AU4	5528.928	78052.743	17.679

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AU1 - AU2	90.000	11.500	18.064	3.368	2.493	4.401	3.731	4.516	17.821
AU2 - AU3	90.000	11.500	18.064	3.368	2.493	4.401	3.731	4.516	18.017
AU3 - AU4	90.000	11.500	18.064	3.368	2.493	4.401	3.731	4.516	17.935
AU4 - AU1	90.000	11.500	18.064	3.368	2.493	4.401	3.731	4.516	17.540

**ALIGNMENT AV**

Point no	Easting	Northing	RL
AV1	5505.975	78066.227	18.396
AV2	5509.370	78064.986	18.306
AV3	5510.887	78065.699	18.295
AV4	5511.163	78067.746	18.328
AV5	5510.825	78068.106	18.337
AV6	5506.091	78067.384	18.413
AV7	5505.584	78066.850	18.415

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AV2 - AV3	96.984	1.000	1.693	0.337	0.249	0.411	0.338	0.423	18.289
AV4 - AV5	110.965	0.300	0.581	0.130	0.096	0.140	0.108	0.145	18.333
AV6 - AV7	75.624	0.600	0.792	0.126	0.094	0.194	0.173	0.198	18.417
AV7 - AV1	75.624	0.600	0.792	0.126	0.094	0.194	0.173	0.198	18.406

**ALIGNMENT AW**

Point no	Easting	Northing	RL
AW1	5531.039	78082.439	17.816
AW2	5532.551	78081.994	17.783
AW3	5533.024	78082.344	17.777
AW4	5532.612	78084.043	17.807
AW5	5532.114	78084.496	17.821
AW6	5530.890	78084.671	17.845
AW7	5530.558	78084.452	17.852
AW8	5530.345	78083.661	17.847

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AW2 - AW3	119.350	0.300	0.625	0.149	0.109	0.149	0.110	0.156	17.778
AW4 - AW5	68.277	0.600	0.715	0.103	0.077	0.176	0.161	0.179	17.814
AW6 - AW7	83.023	0.300	0.435	0.075	0.056	0.106	0.093	0.109	17.849
AW8 - AW1	89.350	1.000	1.559	0.289	0.214	0.380	0.323	0.390	17.831

**ALIGNMENT AX**

Point no	Easting	Northing	RL
AX1	5547.165	78062.727	17.538
AX2	5546.627	78060.439	17.491
AX3	5546.968	78060.075	17.480
AX4	5549.693	78060.530	17.436
AX5	5550.188	78061.038	17.437
AX6	5550.394	78062.491	17.466
AX7	5550.199	78062.815	17.476
AX8	5548.479	78063.438	17.530

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AX2 - AX3	112.732	0.300	0.590	0.134	0.098	0.142	0.108	0.148	17.485
AX4 - AX5	72.470	0.600	0.759	0.116	0.086	0.187	0.168	0.190	17.434
AX6 - AX7	78.133	0.300	0.409	0.067	0.050	0.100	0.089	0.102	17.471
AX8 - AX1	96.665	1.000	1.687	0.335	0.248	0.409	0.338	0.422	17.549

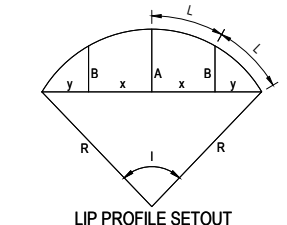
**ALIGNMENT AY**

Point no	Easting	Northing	RL
AY1	5529.259	78044.665	17.640
AY2	5527.546	78046.000	17.660
AY3	5525.194	78046.532	17.690
AY4	5524.832	78046.188	17.695
AY5	5525.698	78041.127	17.653
AY6	5526.229	78040.632	17.657
AY7	5526.849	78041.012	17.661

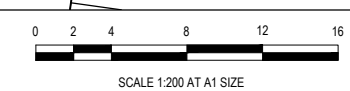
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AY1 - AY2	98.381	1.000	1.717	0.346	0.256	0.416	0.341	0.429	17.649
AY3 - AY4	112.432	0.300	0.589	0.133	0.098	0.141	0.108	0.147	17.693
AY5 - AY6	74.594	0.600	0.781	0.123	0.091	0.192	0.172	0.195	17.654
AY6 - AY7	74.594	0.600	0.781	0.123	0.091	0.192	0.172	0.195	17.660

**LEGEND**

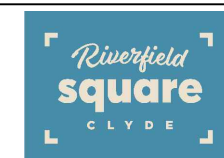
- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
- EXISTING HOUSE DRAIN
- RETAINING WALL
- PAVEMENT TREATMENT
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN
- "NO ROAD" SIGN & BARRIER
- LIMIT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



**ISSUED FOR CONSTRUCTION**



REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



Designed: **K. LIM WAN** 29.07.2025  
 Drawn: **M.F. JAURIGUE**  
 Checked: **A. PHILALAY** 01.08.2025  
 Approved: **A. PHILALAY** PE00120714 01.08.2025  
 PS Number: **PSS933889S**

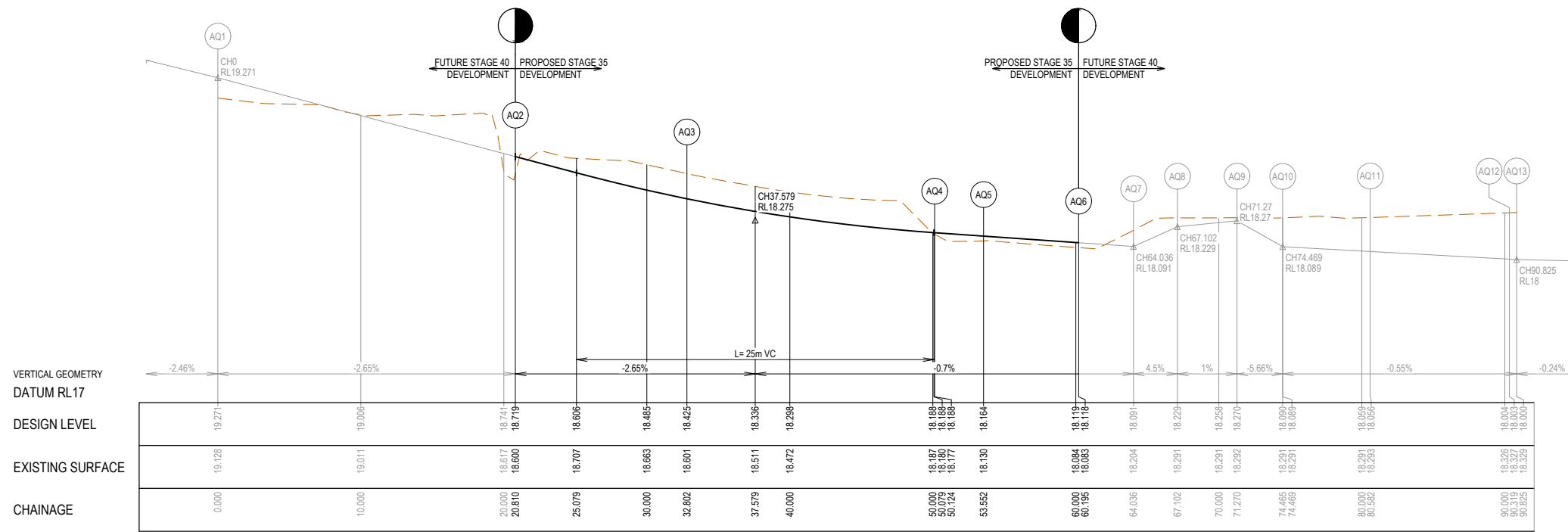
**BW Beveridge Williams**  
 Development & Infrastructure Consultants  
 1 Glenferrie Road Malvern VIC 3144  
 ph: 03 9524 8888  
 www.beveridgewilliams.com.au

Project: **RIVERFIELD STAGE 35 CITY OF CASEY**  
 Drawing Title: **INTERSECTION DETAILS (SHEET 1 OF 3)**

Sheet **12 of 21**  
 Scale: **1:200 @ A1**

Project Ref: **2101578** Stage No: **35** Drawing No: **300** Rev: **A**

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**ALIGNMENT AQ**

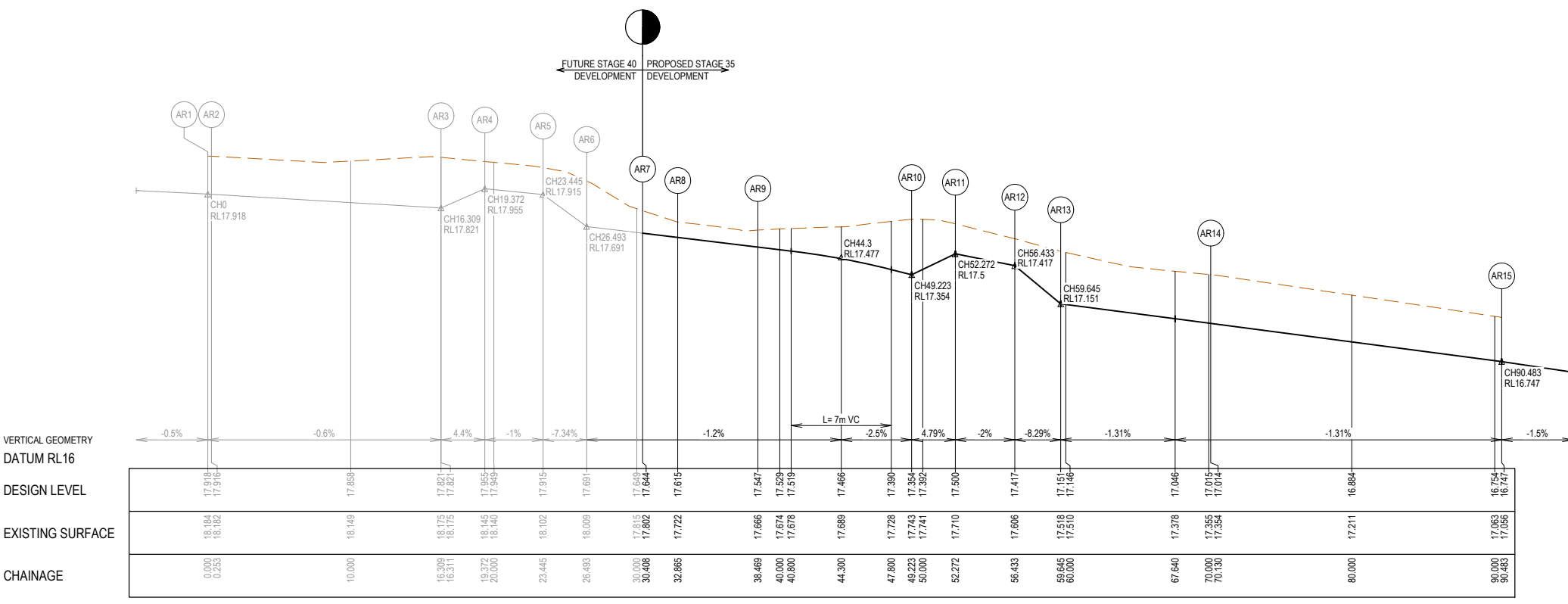
Point no	Easting	Northing	RL
AQ1	5466.837	78075.604	19.271
AQ2	5487.522	78073.325	18.719
AQ3	5499.441	78072.012	18.425
AQ4	5515.982	78075.896	18.188
AQ5	5518.588	78078.106	18.164
AQ6	5522.707	78083.312	18.118
AQ7	5524.764	78086.554	18.091
AQ8	5525.816	78089.435	18.229
AQ9	5527.535	78093.230	18.270
AQ10	5529.048	78096.045	18.290
AQ11	5530.619	78101.952	18.056
AQ12	5532.548	78111.497	18.003
AQ13	5532.633	78111.995	18.000

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AQ3 - AQ4	38.999	25.450	17.323	1.460	1.092	4.310	4.185	4.331	18.277
AQ4 - AQ5	15.166	12.950	3.428	0.113	0.085	0.856	0.853	0.857	18.176
AQ5 - AQ6	7.544	50.450	6.643	0.109	0.082	1.660	1.659	1.661	18.141
AQ6 - AQ7	4.362	50.450	3.841	0.037	0.027	0.960	0.960	0.960	18.104
AQ8 - AQ9	4.776	50.000	4.168	0.043	0.033	1.042	1.041	1.042	18.250
AQ10 - AQ11	6.947	50.450	6.117	0.093	0.070	1.529	1.528	1.529	18.073
AQ12 - AQ13	3.370	8.600	0.506	0.004	0.003	0.126	0.126	0.126	18.001

**ALIGNMENT AR**

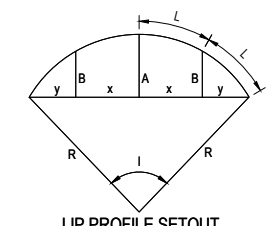
Point no	Easting	Northing	RL
AR1	5538.673	78111.140	17.918
AR2	5538.641	78110.890	17.916
AR3	5536.860	78094.931	17.821
AR4	5537.038	78091.875	17.955
AR5	5537.213	78087.810	17.915
AR6	5537.323	78084.764	17.891
AR7	5538.557	78081.053	17.644
AR8	5539.616	78078.837	17.615
AR9	5543.244	78074.622	17.547
AR10	5552.303	78068.849	17.354
AR11	5555.197	78067.885	17.500
AR12	5558.998	78066.195	17.417
AR13	5561.807	78064.636	17.151
AR14	5571.905	78061.852	17.014
AR15	5591.874	78057.917	16.747

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
AR1 - AR2	1.684	8.600	0.253	0.001	0.001	0.063	0.063	0.063	17.917
AR4 - AR5	9.336	25.000	4.074	0.083	0.062	1.018	1.018	1.018	17.935
AR6 - AR7	8.813	25.450	3.915	0.075	0.058	0.978	0.977	0.978	17.898
AR7 - AR8	5.532	25.450	2.457	0.030	0.022	0.614	0.614	0.614	17.629
AR8 - AR9	24.795	12.950	5.604	0.302	0.226	1.398	1.382	1.401	17.581
AR9 - AR10	8.746	70.450	10.753	0.205	0.154	2.688	2.684	2.688	17.474
AR11 - AR12	3.405	70.000	4.160	0.031	0.023	1.040	1.040	1.040	17.459
AR13 - AR14	8.527	70.450	10.484	0.195	0.146	2.621	2.617	2.621	17.082



**City of Casey**  
 Approved By: **Irshad Ghazi**  
 Planning Ref: **PA22-0318**  
 File No: **SEng00127/25**  
 Council Ref: **R6381**  
 Date: **4/03/2026**

**Approval subject to below conditions:**  
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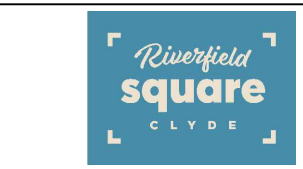


**LEGEND**

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- TACTILE PAVERS (INDICATIVE ONLY)
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- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY

**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



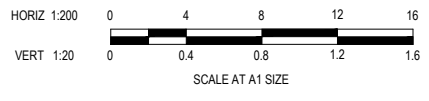
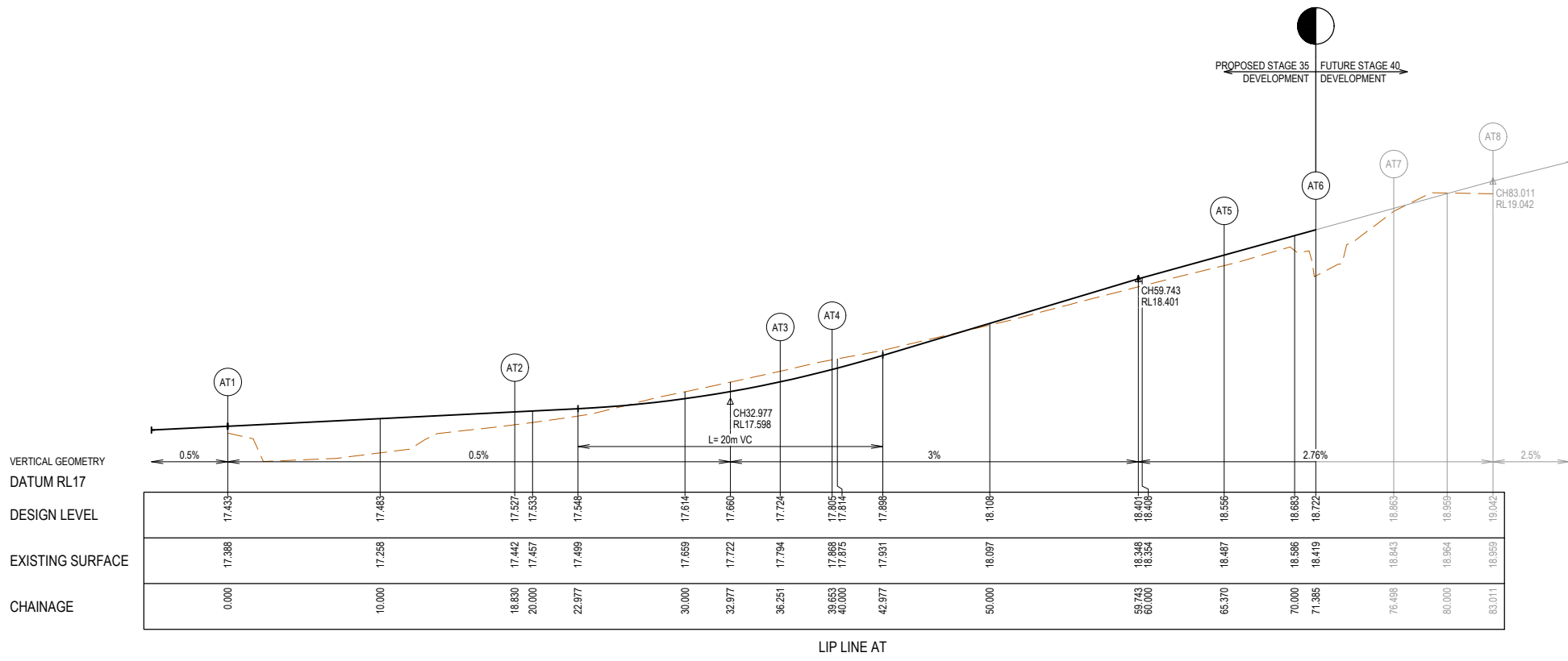
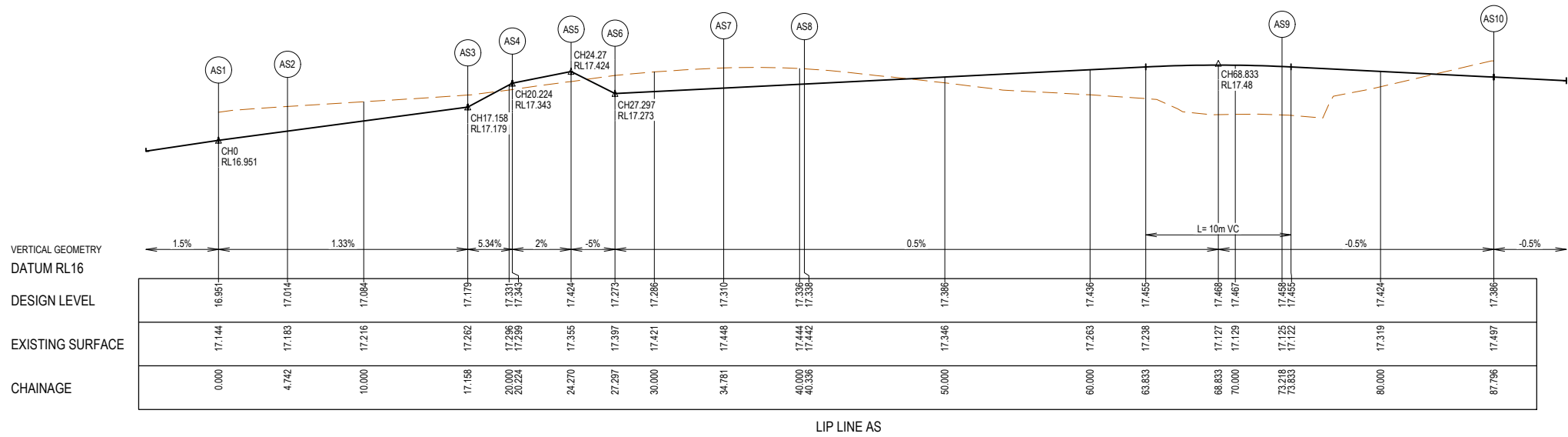
Designed By: **K. LIM WAN**  
 Date: 29.07.2025  
 Drawn: **M.F. JAURIGUE**  
 Checked Date: **A. PHILALAY**  
 Date: 01.08.2025  
 Approved: **A. PHILALAY**  
 Reg. No: PE0013014  
 Date: 01.08.2025  
 PS Number: PSS33889S

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

Project Details: **RIVERFIELD STAGE 35 CITY OF CASEY**  
 Drawing Title: **INTERSECTION DETAILS (SHEET 2 OF 3)**

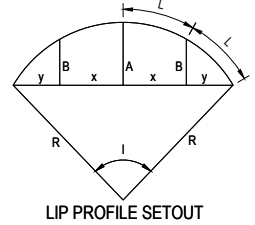
Sheet	13 of 21
Scale	AS SHOWN
Project Ref	2101578
Stage No	35
Drawing No	301
Rev	A

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**City of Casey**  
Approved By: **Irshad Ghazi**  
Planning Ref: **PA22-0318**  
File No: **SEng00127/25**  
Council Ref: **R6381**  
Date: **4/03/2026**

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**LEGEND**

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**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



Designed: **K. LIM WAN**  
Date: 29.07.2025  
Drawn: **M.F. JAURIGUE**  
Checked: **A. PHILALAY**  
Date: 01.08.2025  
Approved: **A. PHILALAY**  
Reg. No: PE0013074  
Date: 01.08.2025  
PS Number: PSS33889S

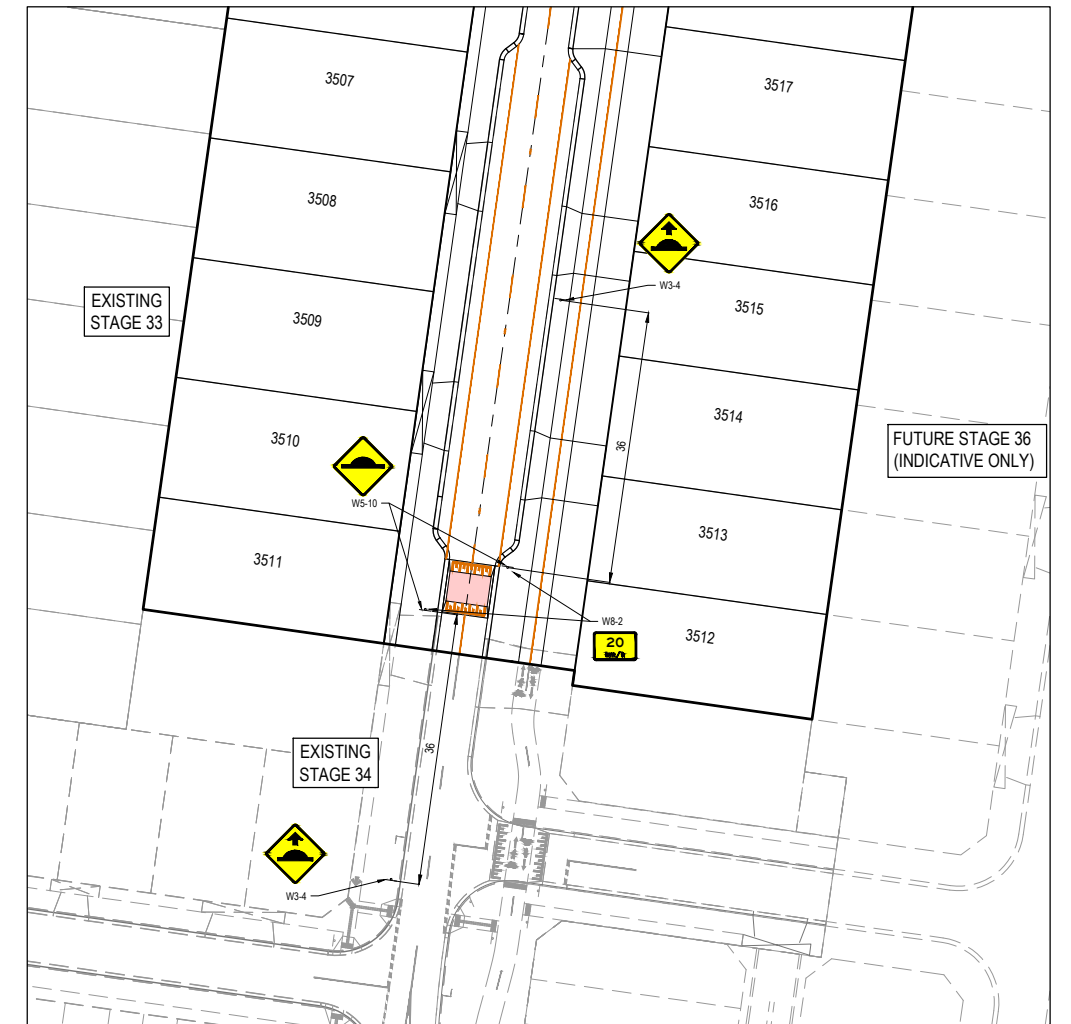
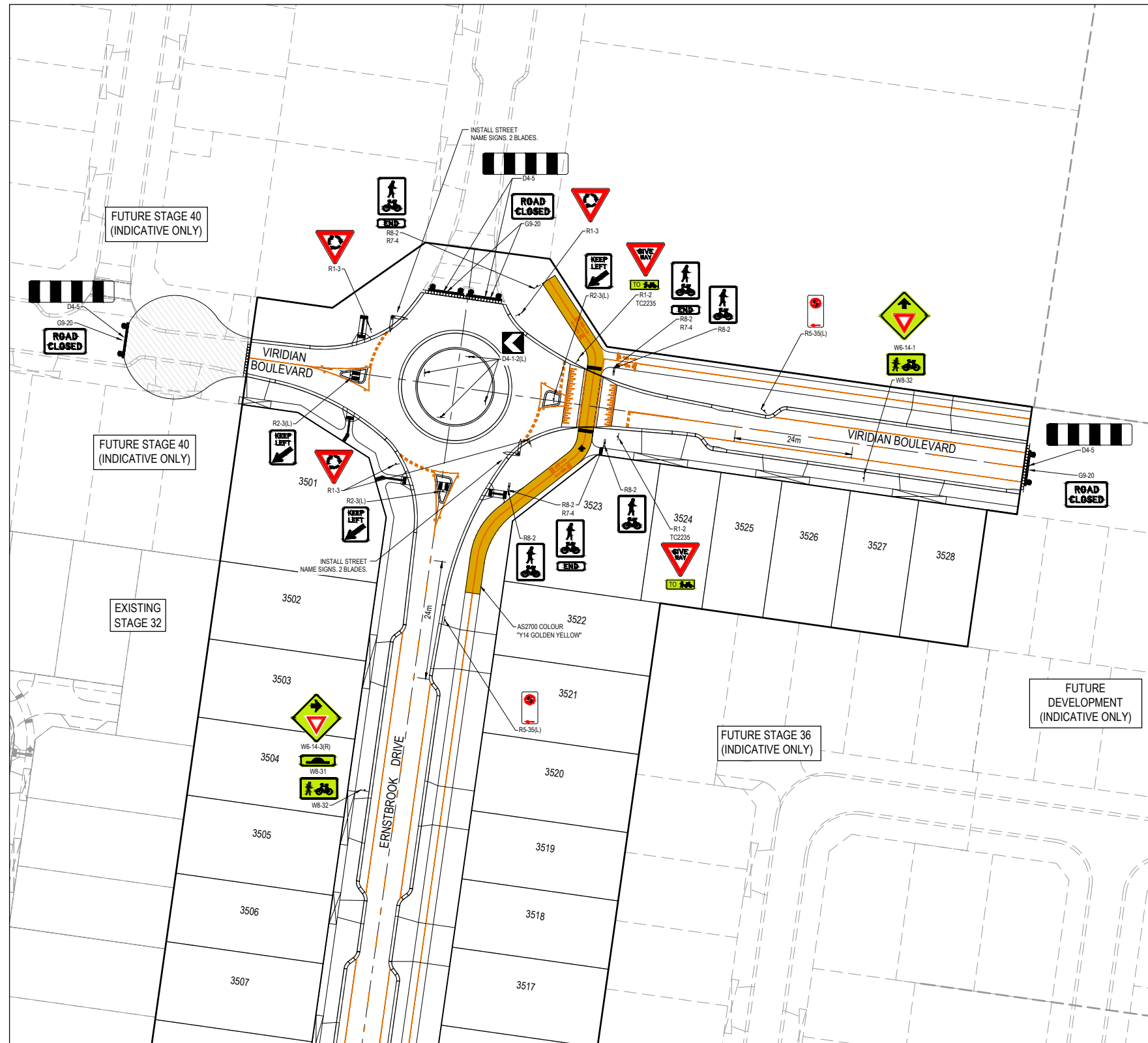
**BW Beveridge Williams**  
Development & Infrastructure Consultants  
1 Glenferrie Road  
Malvern VIC 3144  
ph: 03 9524 8888  
www.beveridgewilliams.com.au

Project: **RIVERFIELD STAGE 35 CITY OF CASEY**  
Drawing Title: **INTERSECTION DETAILS (SHEET 3 OF 3)**

Sheet **14 of 21**  
Scale: **AS SHOWN**

Project Ref	Stage No	Drawing No	Rev
2101578	35	302	A

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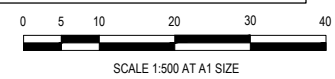
**City of Casey**

Approved By: **Irshad Ghazi**  
 Planning Ref: **PA22-0318**  
 File No: **SEng0012725**  
 Council Ref: **R6381**  
 Date: **4/03/2026**

**Approval subject to below conditions:**

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- NOTES**
- RRPM'S AT MAX 6m SPACING.
  - LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
  - LINEMARKING IN ACCORDANCE WITH AS1742.
  - TGSI TO BE INSTALLED IN ACCORDANCE WITH AS1428.4.1-2009 & VICROADS SUPPLEMENTARY STANDARD TEM Vol 2 Part 2.23. PRODUCT MUST BE DTP APPROVED AS PER DTP RDN 06-05. ADHESIVE TGSI MUST NOT BE USED.
  - ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVANT STREET NUMBERING.
  - ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
  - EVERY LOT TO HAVE STREET NUMBER STAMPED ON KERB IN ACCORDANCE WITH COUNCIL REQUIREMENTS. CONTRACTOR TO OBTAIN LATEST STREET NUMBERING FROM SURVEY CONSULTANT PRIOR TO STAMPING.



**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



Designed: K. LIM WAN  
 Date: 29.07.2025  
 Drawn: M.F. JAURIGUE  
 Checked: A. PHILALAY  
 Date: 01.08.2025  
 Approved: A. PHILALAY  
 Reg. No: PE013074  
 Date: 01.08.2025  
 PS Number: PSS933889S

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

Project: RIVERFIELD STAGE 35 CITY OF CASEY  
 Drawing Title: SIGNAGE & LINE MARKING PLANS

Sheet 15 of 21  
 Scale 1:500 @ A1  
 Project Ref: 2101578  
 Stage No: 35  
 Drawing No: 350  
 Rev: A

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# City of Casey

Approved By: **Irshad Ghazi**  
 Planning Ref: **PA22-0318**  
 File No: **SEng00127/25**  
 Council Ref: **R6381**  
 Date: **4/03/2026**

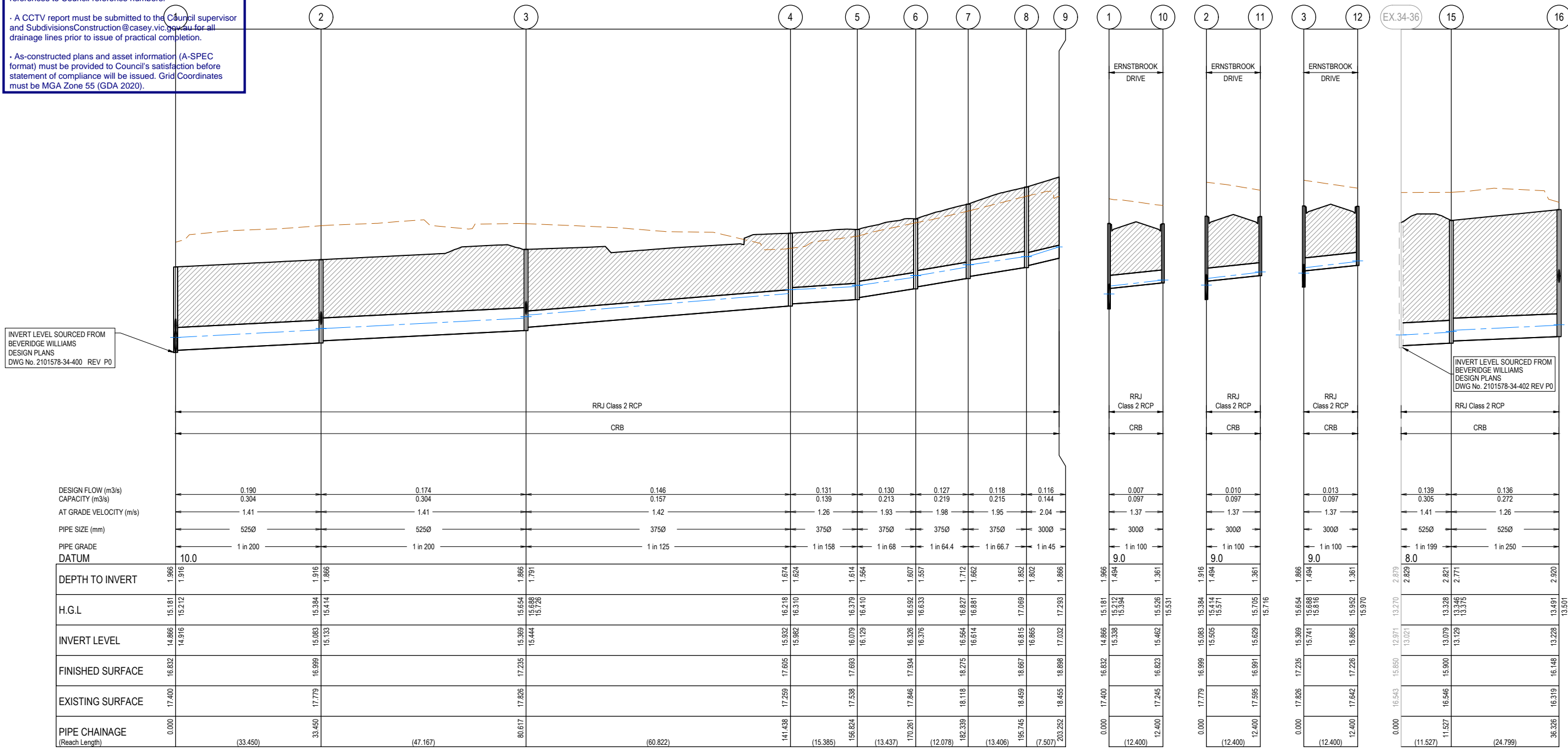
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**NOTES:**  
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

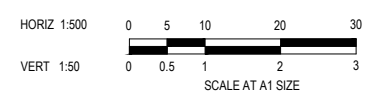
**LEGEND**

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



INVERT LEVEL SOURCED FROM BEVERIDGE WILLIAMS DESIGN PLANS DWG No. 2101578-34-400 REV P0

INVERT LEVEL SOURCED FROM BEVERIDGE WILLIAMS DESIGN PLANS DWG No. 2101578-34-402 REV P0



**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



Designed: **K. LIM WAN**  
 Date: 29.07.2025  
 Drawn: **M.F. JAURIGUE**  
 Checked: **A. PHILALAY**  
 Date: 01.08.2025  
 Approved: **A. PHILALAY**  
 Reg. No: PE0132014  
 Date: 01.08.2025  
 PS Number: PSS933889S

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

Project Details: **RIVERFIELD STAGE 35 CITY OF CASEY**  
 Drawing Title: **DRAINAGE LONGITUDINAL SECTIONS (SHEET 1 OF 3)**

Sheet	16 of 21
Scale	1:500 H 1:50 V @ A1
Project Ref	2101578
Stage No	35
Drawing No	400
Rev	A

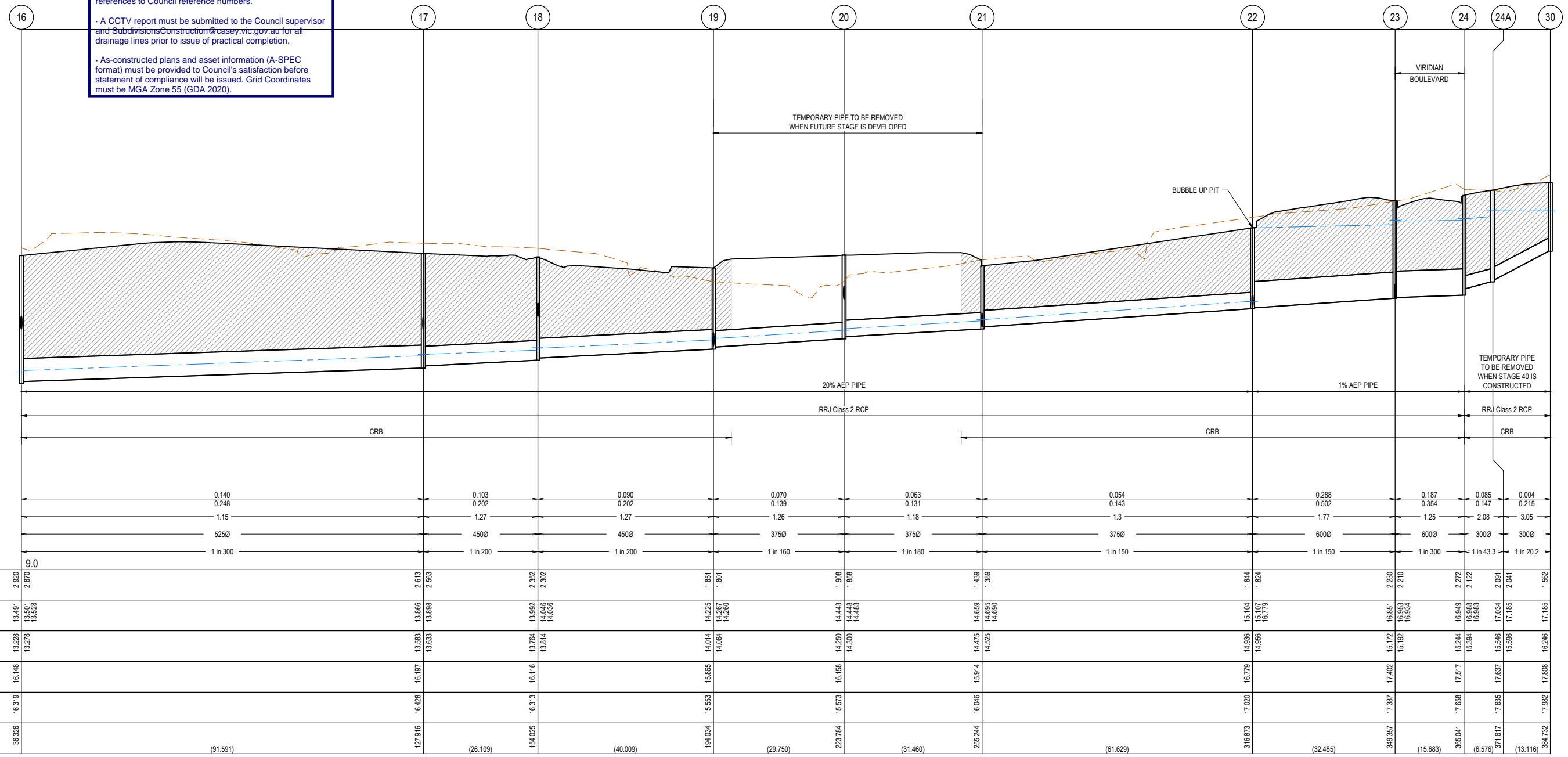
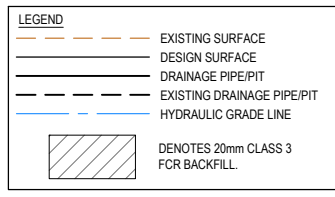
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**City of Casey**  
 Approved By: **Irshad Ghazi**  
 Planning Ref: **PA22-0318**  
 File No: **SEng00127/25**  
 Council Ref: **R6381**  
 Date: **4/03/2026**

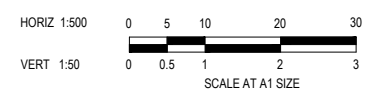
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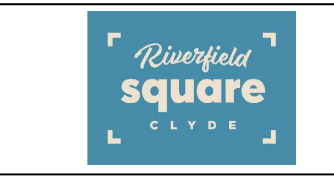


	16	17	18	19	20	21	22	23	24	24A	30
DESIGN FLOW (m3/s)			0.140		0.070		0.054		0.187		0.004
CAPACITY (m3/s)			0.248		0.202		0.143		0.354		0.215
AT GRADE VELOCITY (m/s)			1.15		1.27		1.3		1.25		3.05
PIPE SIZE (mm)			5250		4500		3750		6000		3000
PIPE GRADE DATUM	9.0		1 in 300		1 in 200		1 in 150		1 in 150		1 in 20.2
DEPTH TO INVERT	2.920 2.870		2.613 2.563		2.352 2.302		1.844 1.824		2.230 2.210		1.582
H.G.L.	13.491 13.278 13.258		13.866 13.898		13.992 14.046 14.336		15.104 15.107 16.779		16.851 16.953 16.934		17.185 17.185
INVERT LEVEL	13.228 13.278		13.583 13.633		13.764 13.814		14.936 14.956		15.172 15.192		16.246
FINISHED SURFACE	16.148		16.197		16.116		16.779		17.402		17.808
EXISTING SURFACE	16.319		16.428		16.553		16.046		17.387		17.982
PIPE CHAINAGE (Reach Length)	36.326	(91.591)	127.916 (26.109)	154.025 (40.009)	194.034 (29.750)	223.784 (31.460)	255.244 (61.629)	316.873 (32.485)	349.357 (15.683)	365.041 (6.576)	371.617 (13.116)



**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



Designed: K. LIM WAN  
 Date: 29.07.2025  
 Drawn: M.F. JAURIGUE  
 Checked: A. PHILALAY  
 Date: 01.08.2025  
 Approved: A. PHILALAY  
 Reg. No: PE013074  
 Date: 01.08.2025  
 PS Number: PSS33889S

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

Project Details: RIVERFIELD STAGE 35 CITY OF CASEY  
 Drawing Title: DRAINAGE LONGITUDINAL SECTIONS (SHEET 2 OF 3)

Sheet 17 of 21  
 Scale: 1:500 H 1:50 V @ A1  
 Project Ref: 2101578  
 Stage No: 35  
 Drawing No: 401  
 Rev: A

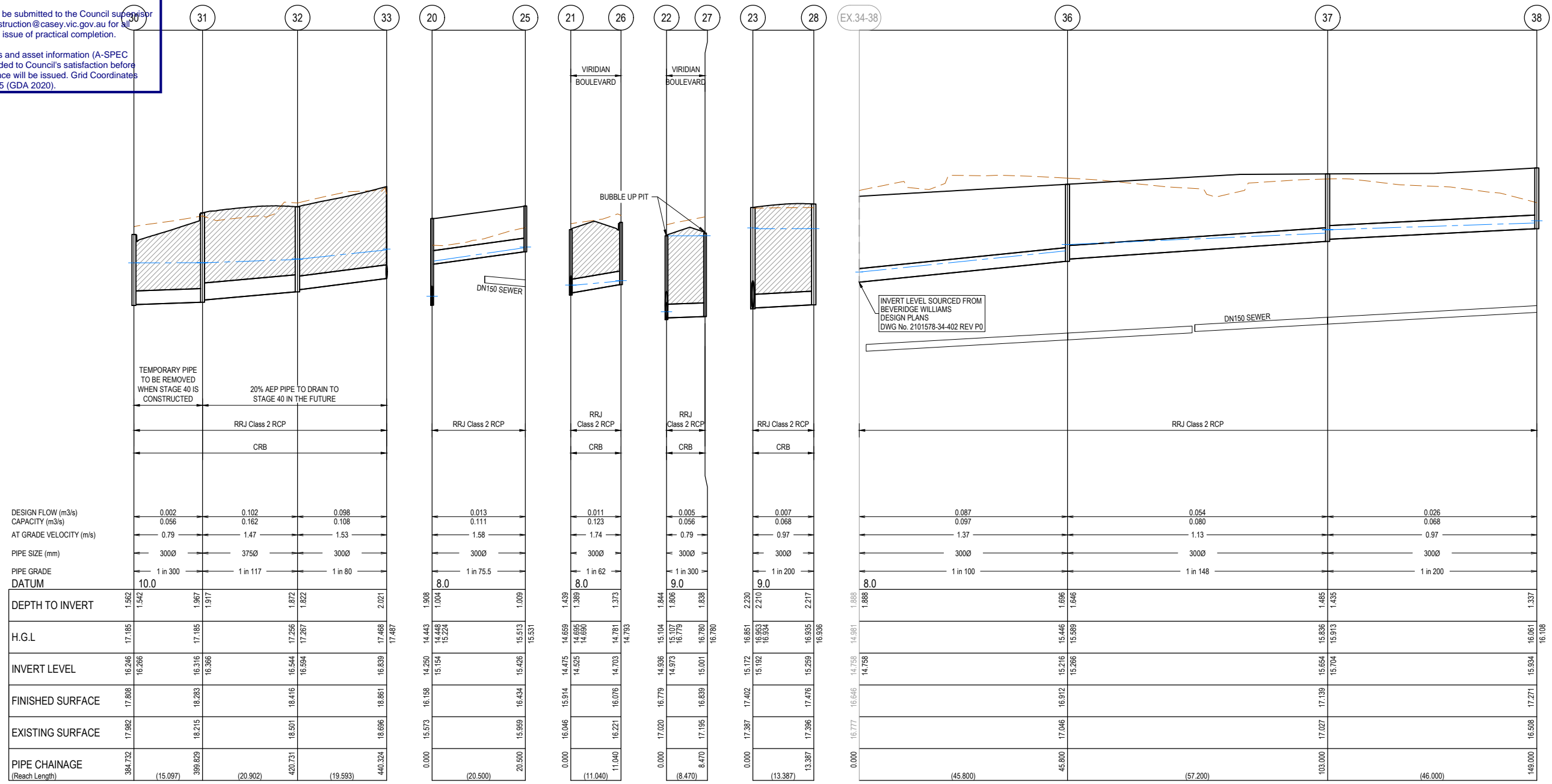
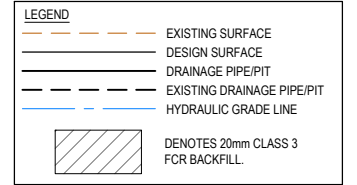
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# City of Casey

Approved By: **Irshad Ghazi**  
 Planning Ref: **PA22-0318**  
 File No: **SEng00127/25**  
 Council Ref: **R6381**  
 Date: **4/03/2026**

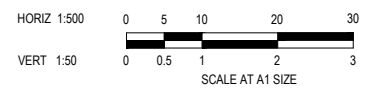
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**NOTES:**  
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.



DESIGN FLOW (m3/s)	0.002	0.102	0.098
CAPACITY (m3/s)	0.056	0.162	0.108
AT GRADE VELOCITY (m/s)	0.79	1.47	1.53
PIPE SIZE (mm)	3000	3750	3000
PIPE GRADE	1 in 300	1 in 117	1 in 80
DATUM	10.0		

DEPTH TO INVERT	1.582	1.542	1.967	1.917	2.021
H.G.L.	17.185	16.266	17.185	16.366	17.468
INVERT LEVEL	16.246	16.266	16.316	16.366	16.839
FINISHED SURFACE	17.808	17.808	18.283	18.283	18.861
EXISTING SURFACE	17.982	17.982	18.215	18.215	18.696
PIPE CHAINAGE (Reach Length)	384.732	(15.097)	399.829	(20.902)	440.324



**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	04.03.26	LS	AP					



Designed: **K. LIM WAN**  
 Date: 29.07.2025  
 Drawn: **M.F. JAURIGUE**  
 Checked: **A. PHILALAY**  
 Date: 01.08.2025  
 Approved: **A. PHILALAY**  
 Reg. No.: PE0132014  
 Date: 01.08.2025  
 PS Number: PSS33889S

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Project Details	RIVERFIELD STAGE 35 CITY OF CASEY
Drawing Title	DRAINAGE LONGITUDINAL SECTIONS (SHEET 3 OF 3)

Sheet	18 of 21
Scale	1:500 H 1:50 V @ A1
Project Ref	2101578
Stage No	35
Drawing No	402
Rev	A

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# City of Casey

Approved By: **Irshad Ghazi**  
 Planning Ref: **PA22-0318**  
 File No: **SEng00127/25**  
 Council Ref: **R6381**  
 Date : **4/03/2026**

**Approval subject to below conditions:**

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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 FOR BACKFILL.

**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)	DIAMETER (mm)	INV R.L. (m)					
1	SIDE ENTRY PIT	600	900	900	900	525	14.916	525	14.866	16.832	1.966	EDCM 601	EDCM 607	HAUNCH PIT EAST. REMOVE MARKER POST AND UNCAP PIPE. CONSTRUCT PIT OVER EXSITING PIPE.
2	SIDE ENTRY PIT	600	900	900	900	525	15.133	525	15.083	16.999	1.916	EDCM 601	EDCM 607	HAUNCH PIT EAST.
3	SIDE ENTRY PIT	600	900	900	900	375	15.444	525	15.369	17.235	1.866	EDCM 601	EDCM 607	HAUNCH PIT EAST.
4	SIDE ENTRY PIT	600	900	600	900	375	15.982	375	15.932	17.605	1.674	EDCM 601	-	
5	SIDE ENTRY PIT	600	900	600	900	375	16.129	375	16.079	17.693	1.614	EDCM 601	-	
6	SIDE ENTRY PIT	600	900	600	900	375	16.376	375	16.326	17.934	1.607	EDCM 601	-	
7	JUNCTION PIT	600	900	600	900	375	16.614	375	16.564	18.275	1.712	EDCM 605	-	
8	SIDE ENTRY PIT	600	900	600	900	300	16.865	375	16.815	18.667	1.852	EDCM 601	-	
9	ENDWALL					300	17.032	300	17.032	18.898	1.866	-	-	TEMPORARY SANDBAG ENDWALL TO SUIT DN800 PIPE.
10	SIDE ENTRY PIT	600	900	600	900	-	-	300	15.462	16.823	1.361	EDCM 601	-	
11	SIDE ENTRY PIT	600	900	600	900	-	-	300	15.629	16.991	1.361	EDCM 601	-	
12	SIDE ENTRY PIT	600	900	600	900	-	-	300	15.865	17.226	1.361	EDCM 601	-	
15	SIDE ENTRY PIT	600	900	900	1050	525	13.129	525	13.079	15.9	2.821	EDCM 601	EDCM 607	HAUNCH PIT EAST.
16	SIDE ENTRY PIT	600	900	900	900	525	13.278	525	13.228	16.148	2.920	EDCM 601	EDCM 607	HAUNCH PIT EAST. PIT BLOCKOUT ON EAST WALL FOR FUTURE 300mm CONNECTION- IL14.473
17	SIDE ENTRY PIT	600	900	900	900	450	13.633	525	13.583	16.197	2.613	EDCM 601	EDCM 607	HAUNCH PIT EAST. PIT BLOCKOUT ON EAST WALL FOR FUTURE 300mm CONNECTION- IL14.459
18	GRADED PIT	600	900	900	900	450	13.814	450	13.764	16.116	2.352	EDCM 605	EDCM 607	PROVIDE HEAVY DUTY GRATED COVER. HAUNCH PIT NORTH. PIT BLOCKOUT ON WEST WALL FOR FUTURE 300mm CONNECTION- IL14.764
19	SIDE ENTRY PIT	600	900	900	900	375	14.064	450	14.014	15.865	1.851	EDCM 601	EDCM 607	HAUNCH PIT SOUTH. PIT BLOCKOUT ON SOUTH WALL FOR FUTURE 300mm CONNECTION- IL14.089
20	JUNCTION PIT	600	900	600	900	375	14.3	375	14.25	16.158	1.908	EDCM 605	-	PIT BLOCKOUT ON EAST WALL FOR FUTURE 300mm CONNECTION- IL14.25
21	SIDE ENTRY PIT	750	1000	750	1000	375	14.525	375	14.475	15.914	1.439	VR SD1322	-	PIT BLOCKOUT ON EAST WALL FOR FUTURE 375mm CONNECTION- IL14.475
22	SIDE ENTRY PIT	750	1000	900	1000	600	14.956	375	14.936	16.779	1.844	VR SD1322	VR SD1021	HAUNCH PIT NORTH.
23	DOUBLE SIDE ENTRY PIT	600	900	900	900	600	15.192	600	15.172	17.402	2.230	EDCM 602	EDCM 607	HAUNCH PIT NORTH. PROVIDE 300mm PIPE BETWEEN CATCH PIT & JUNCTION PIT.
24	DOUBLE SIDE ENTRY PIT	600	900	600	900	300	15.394	600	15.244	17.517	2.272	EDCM 602	-	PROVIDE 300mm PIPE BETWEEN CATCH PIT & JUNCTION PIT.
24A	DOUBLE SIDE ENTRY PIT	600	900	600	900	300	15.596	300	15.546	17.637	2.091	EDCM 602	-	PROVIDE 300mm PIPE BETWEEN CATCH PIT & JUNCTION PIT.
25	JUNCTION PIT	600	900	600	900	-	-	300	15.426	16.434	1.009	EDCM 605	-	
26	SIDE ENTRY PIT	600	900	600	900	-	-	300	14.703	16.076	1.373	EDCM 601	-	
27	SIDE ENTRY PIT	750	1000	750	1000	-	-	300	15.001	16.839	1.838	VR SD1322	-	
28	SIDE ENTRY PIT	600	900	600	900	-	-	300	15.259	17.476	2.217	EDCM 601	-	
30	SIDE ENTRY PIT	600	900	600	900	300	16.266	300	16.246	17.808	1.562	EDCM 601	-	PIT BLOCKOUT ON NORTH WALL FOR FUTURE 375mm CONNECTION- IL16.316
31	JUNCTION PIT	600	900	600	900	375	16.366	300	16.316	18.283	1.967	EDCM 605	-	PIT BLOCKOUT ON NORTH WALL FOR FUTURE 375mm CONNECTION- IL16.316
32	SIDE ENTRY PIT	600	900	600	900	300	16.594	375	16.544	18.416	1.872	EDCM 601	-	
33	END PIPE	-	-	-	-	300	16.839	300	16.839	18.861	2.021	-	-	CAP AND SEAL. PROVIDE MARKER POST.
36	JUNCTION PIT	600	900	600	900	300	15.266	300	15.216	16.912	1.696	EDCM 605	-	
37	JUNCTION PIT	600	900	600	900	300	15.704	300	15.654	17.139	1.485	EDCM 605	-	
38	JUNCTION PIT	600	900	600	900	-	-	300	15.934	17.271	1.337	EDCM 605	-	

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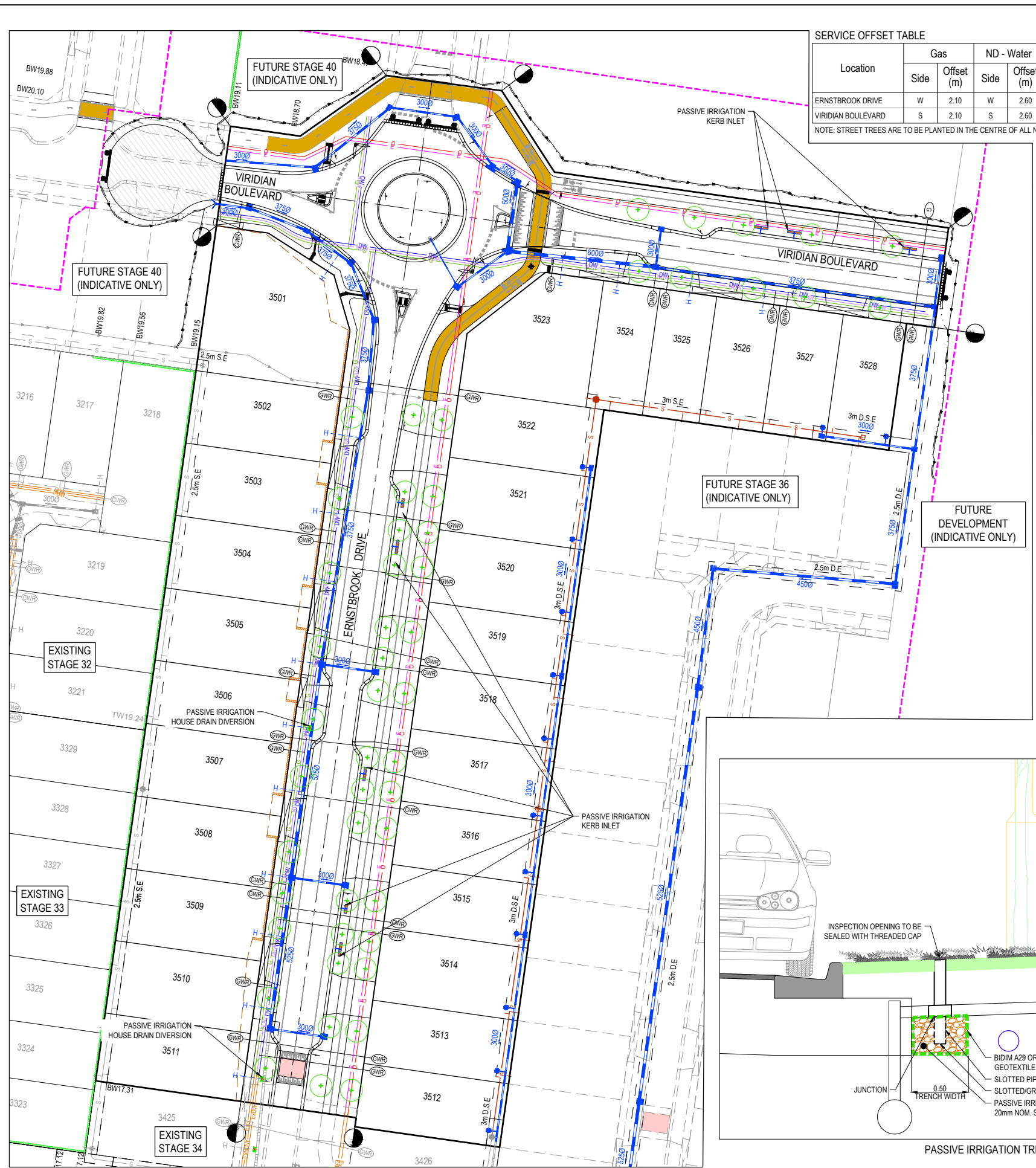


Designed: **K. LIM WAN** 29.07.2025  
 Drawn: **M.F. JAURIGUE**  
 Checked: **A. PHILALAY** 01.08.2025  
 Approved: **A. PHILALAY** PE0012074 01.08.2025  
 PS Number: **PSS933889S**

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

Project Details: **RIVERFIELD STAGE 35 CITY OF CASEY**  
 Drawing Title: **PIT SCHEDULE**

Sheet	19 of 21
Scale	AS SHOWN
Project Ref	2101578
Stage No	35
Drawing No	403
Rev	A



**SERVICE OFFSET TABLE**

Location	Gas		ND - Water		Water		Electricity		Telecommunication		Sewer	
	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)	Side	Offset (m)
ERNSTBROOK DRIVE	W	2.10	W	2.60	W	3.10	E	2.60	E	1.90	E	Ex 6.44
VIRIDIAN BOULEVARD	S	2.10	S	2.60	S	3.10	N	5.10	N	4.40	-	-

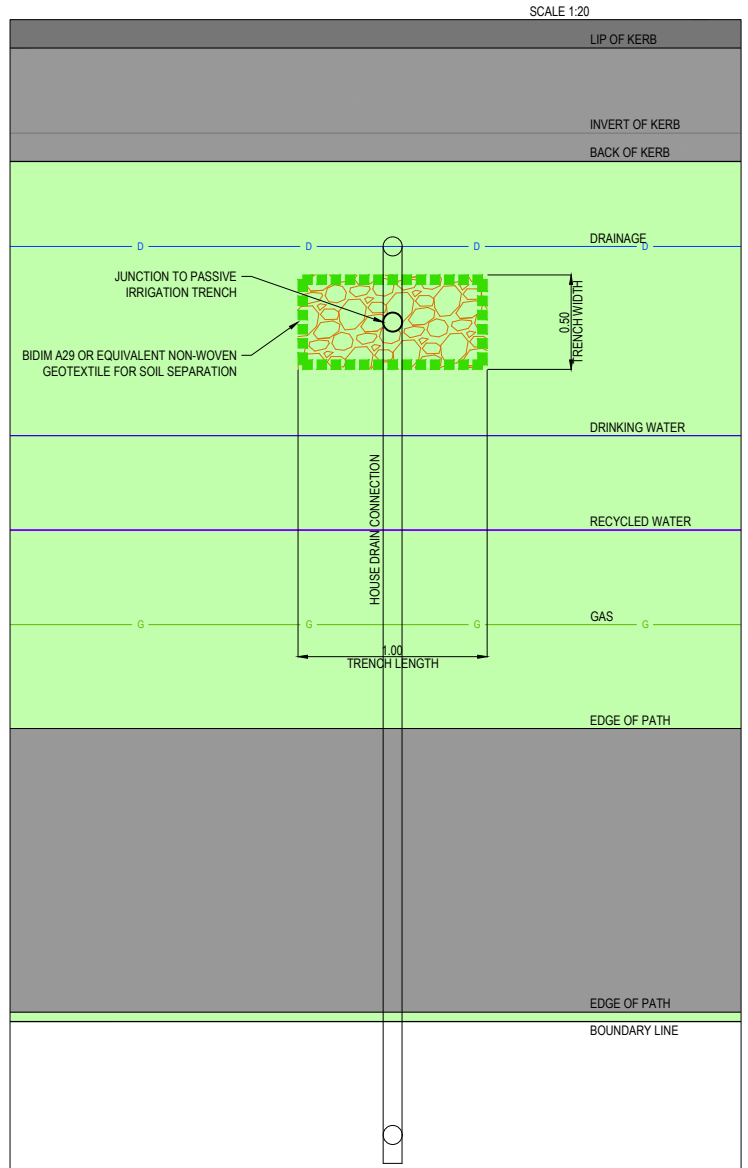
NOTE: STREET TREES ARE TO BE PLANTED IN THE CENTRE OF ALL NATURE STRIPS

**City of Casey**

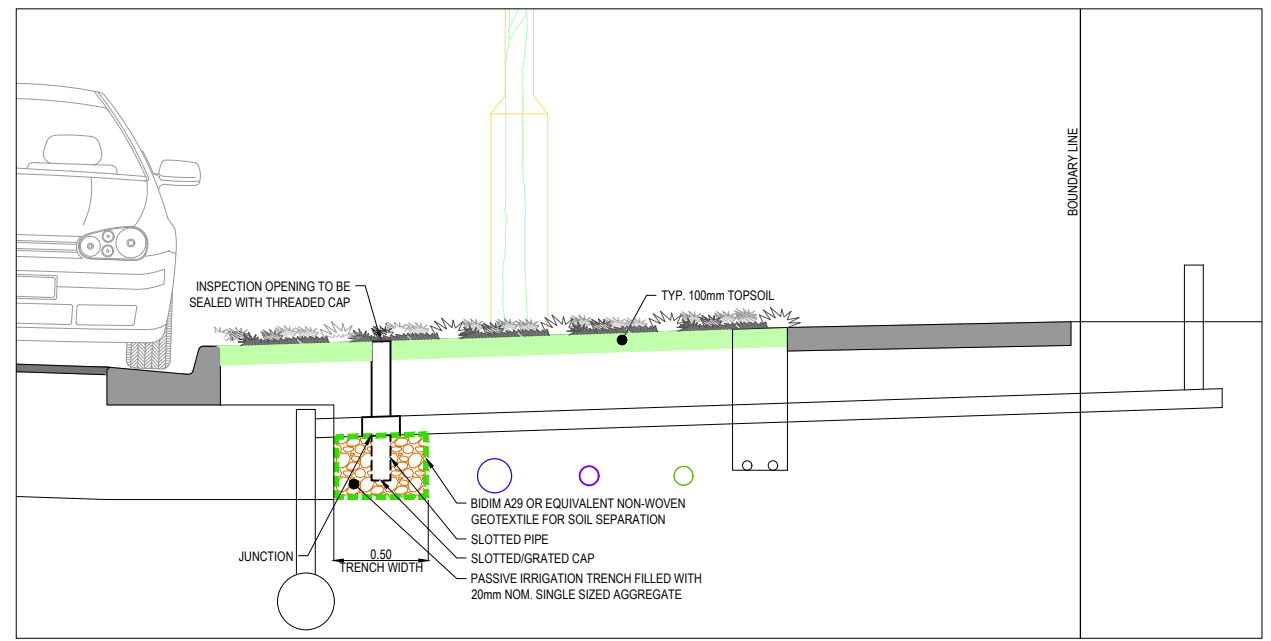
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 Council Ref: **R6381**  
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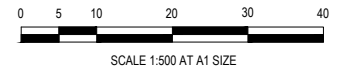
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PASSIVE IRRIGATION TRENCH DETAIL PLAN - HOUSE DRAIN  
SCALE 1:20



PASSIVE IRRIGATION TRENCH DETAIL SECTION - HOUSE DRAIN  
SCALE 1:20



**WARNING**  
**BWARE OF UNDERGROUND SERVICES**  
 The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works  
**BEFORE YOU DIG**  
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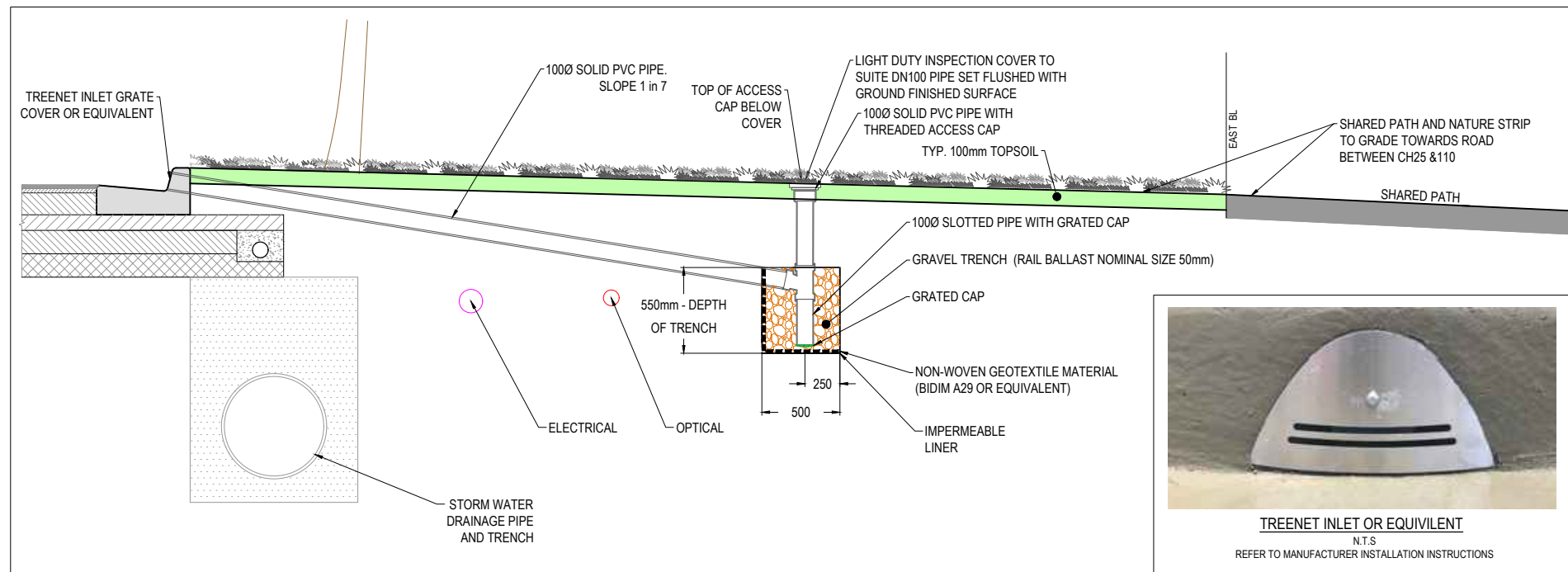
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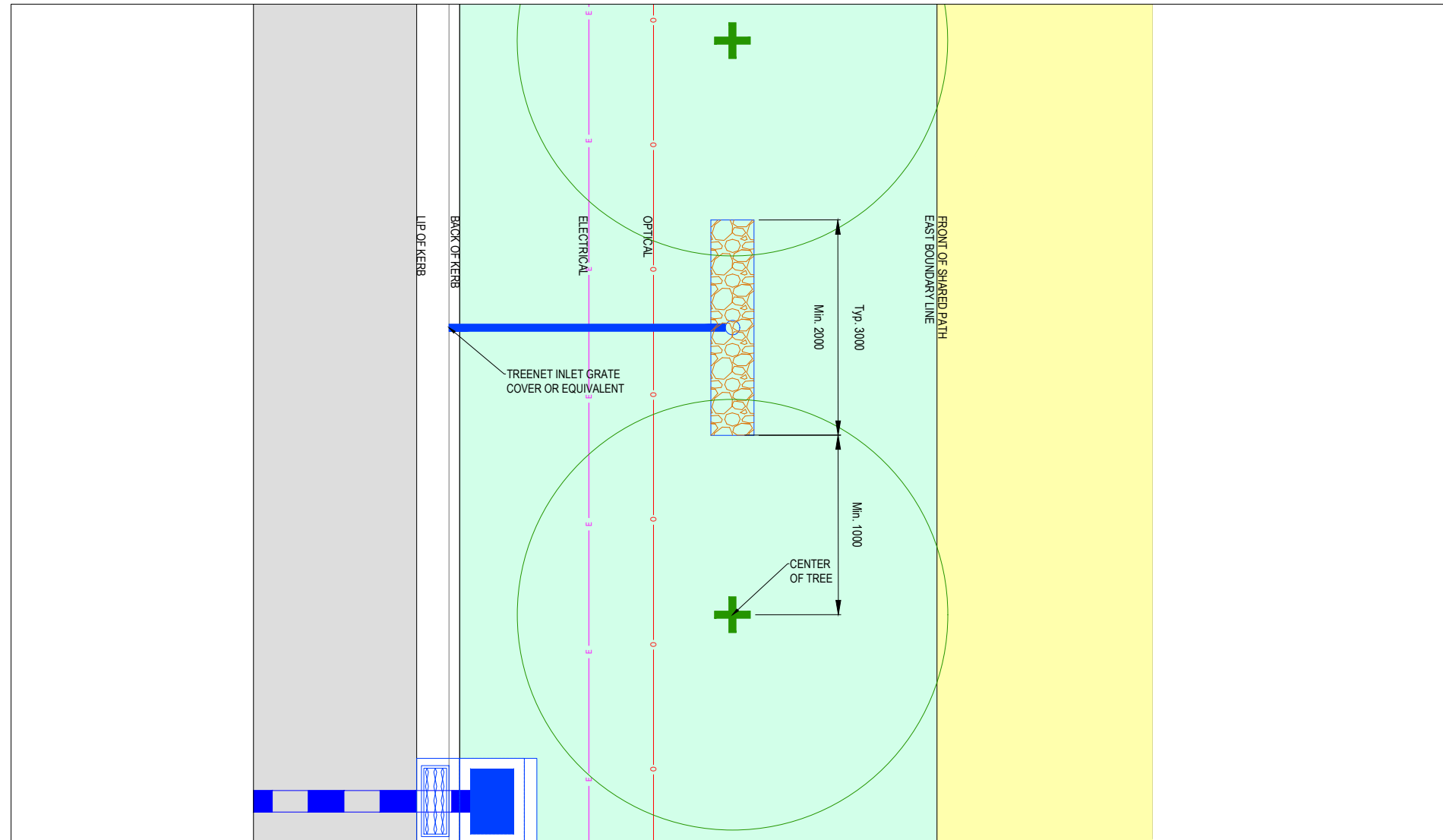
Project: RIVERFIELD STAGE 35 CITY OF CASEY  
 Drawing Title: IRRIGATION PLAN (SHEET 1 OF 2)

Sheet 20 of 21  
 Scale: 1:500 @ A1  
 Project Ref: 2101578  
 Stage No: 35  
 Drawing No: 480  
 Rev: A

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PASSIVE IRRIGATION TRENCH DETAIL SECTION - KERB INLET  
SCALE 1:20



PASSIVE IRRIGATION TRENCH DETAIL PLAN - KERB INLET  
SCALE 1:40

**City of Casey**

Approved By: **Irshad Ghazi**  
 Planning Ref: **PA22-0318**  
 File No: **SEng00127/25**  
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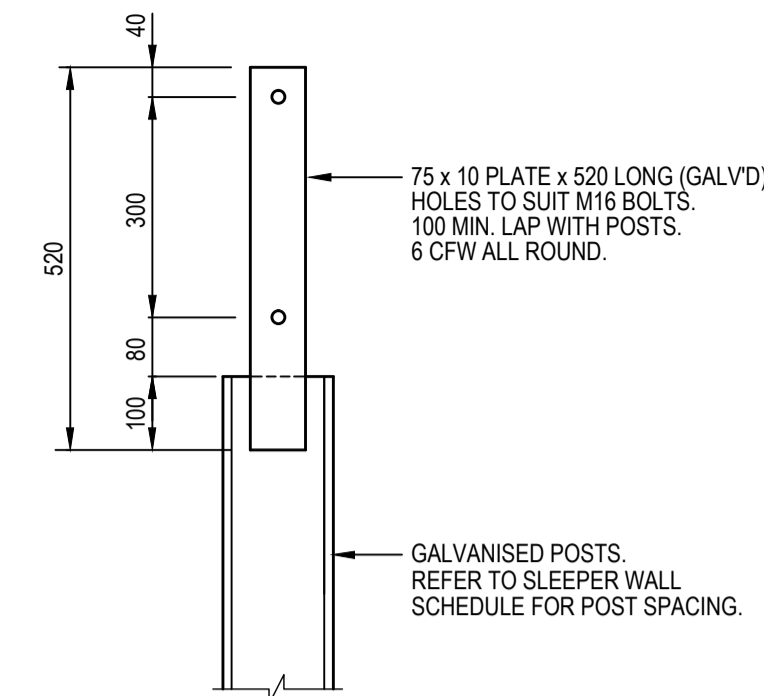
Designed	K. LIM WAN
Date	29.07.2025
Drawn	M.F. JAURIGUE
Checked	A. PHILALAY
Date	01.08.2025
Approved	A. PHILALAY
Reg. No.	PE013074
Date	01.08.2025
PS Number	PSS933889S

**BW Beveridge Williams**  
 Development & Infrastructure Consultants

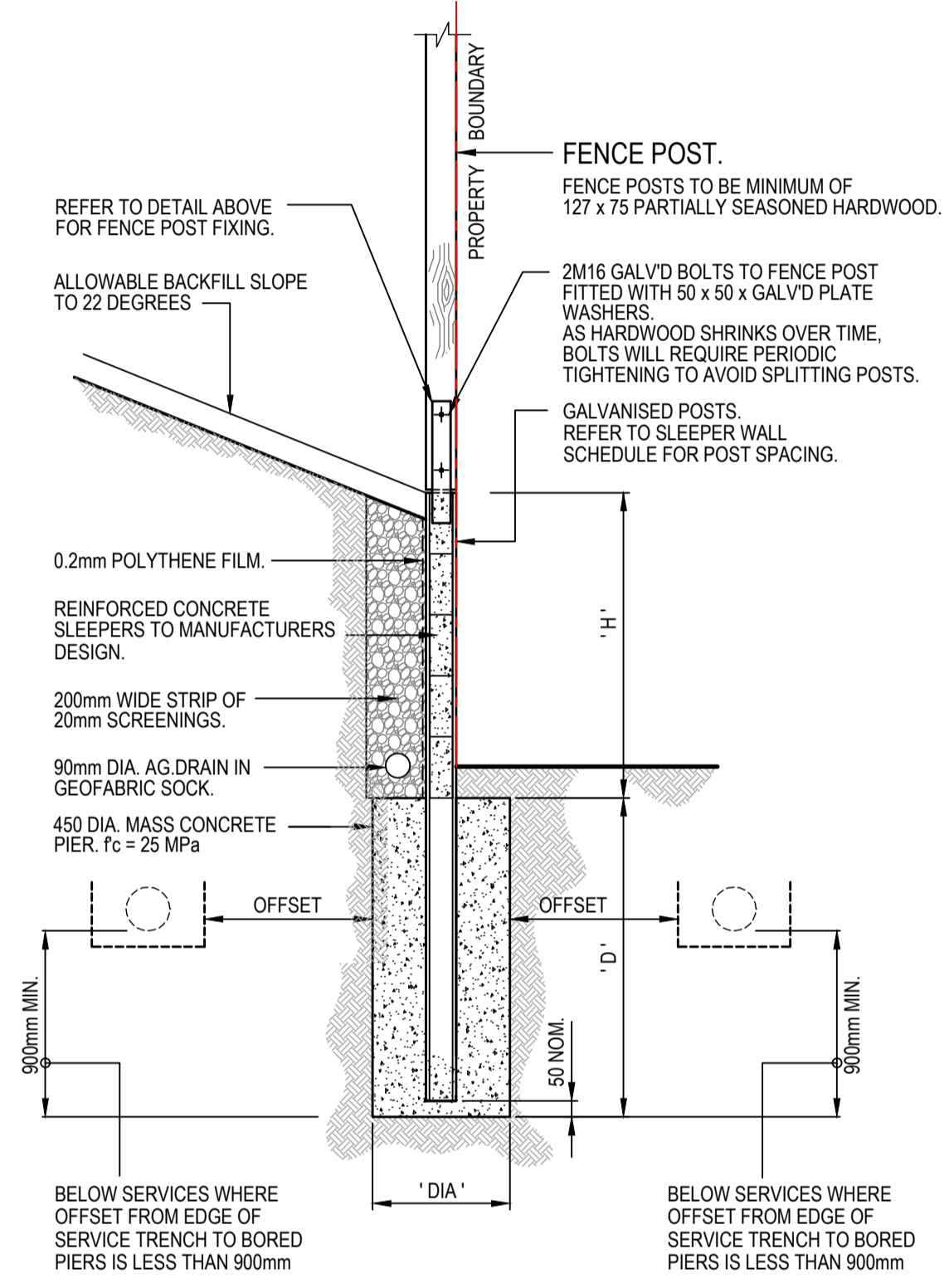
1 Glenferrie Road  
 Malvern VIC 3144  
 ph: 03 9524 8888  
[www.beveridgewilliams.com.au](http://www.beveridgewilliams.com.au)

Project Details	RIVERFIELD STAGE 35 CITY OF CASEY
Drawing Title	IRRIGATION PLAN (SHEET 2 OF 2)

Sheet	21 of 21
Scale	AS SHOWN
Project Ref	2101578
Stage No	35
Drawing No	481
Rev	A



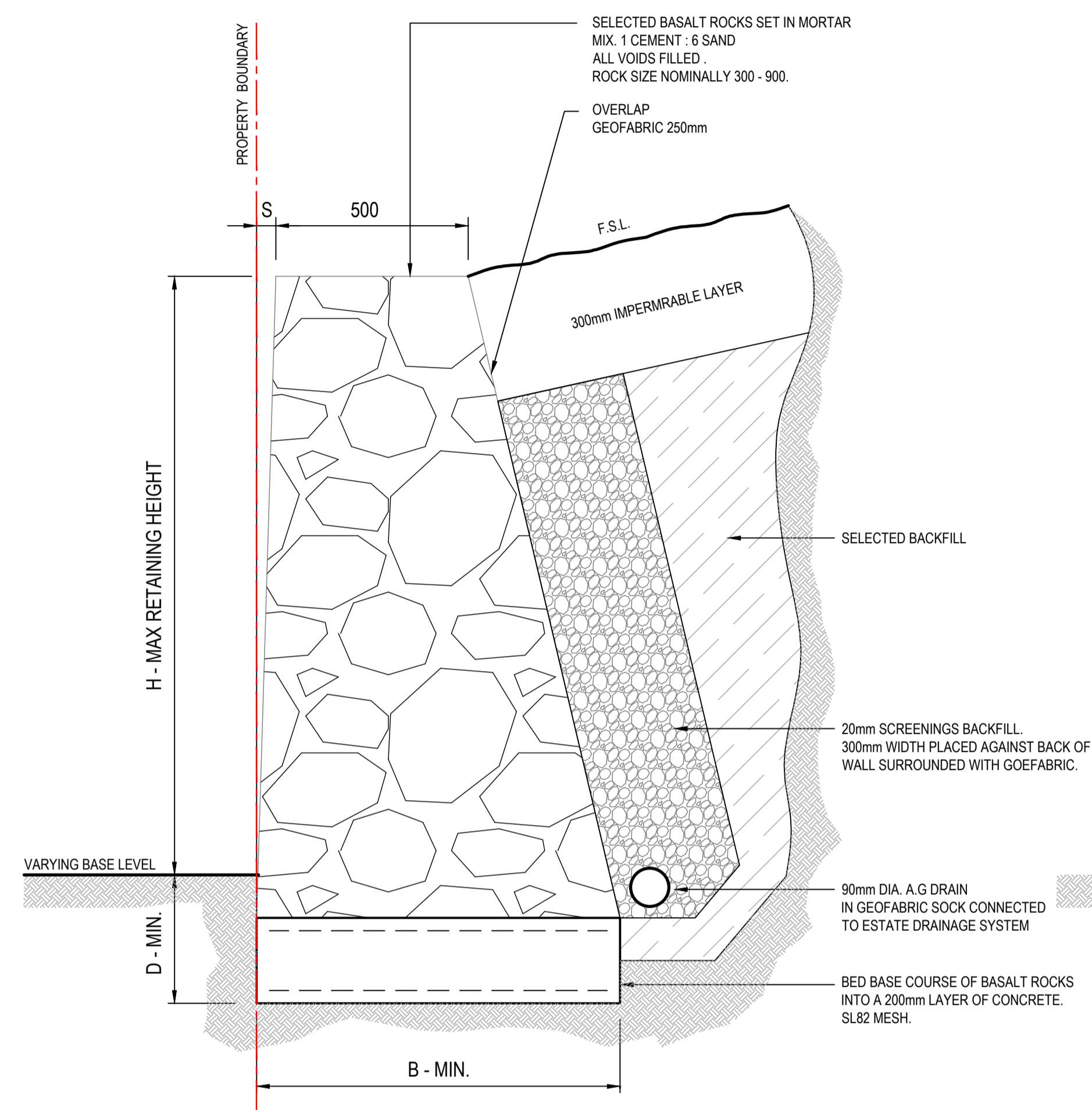
**FENCE POST FIXING PLATE DETAIL**  
SCALE 1:10



**REINFORCED CONCRETE SLEEPER RETAINING WALL WITH 1.8m HIGH PAILING OR COLORBOND FENCE**  
SCALE 1:20

- REFER BEVERIDGE WILLIAMS DRAWINGS FOR WALL LOCATIONS AND HEIGHTS.
- WHERE BASALT IS PRESENT, THE BORED PIER FOOTINGS SHALL BE SOCKETED 900mm MINIMUM INTO SOLID UNDISTURBED BEDROCK

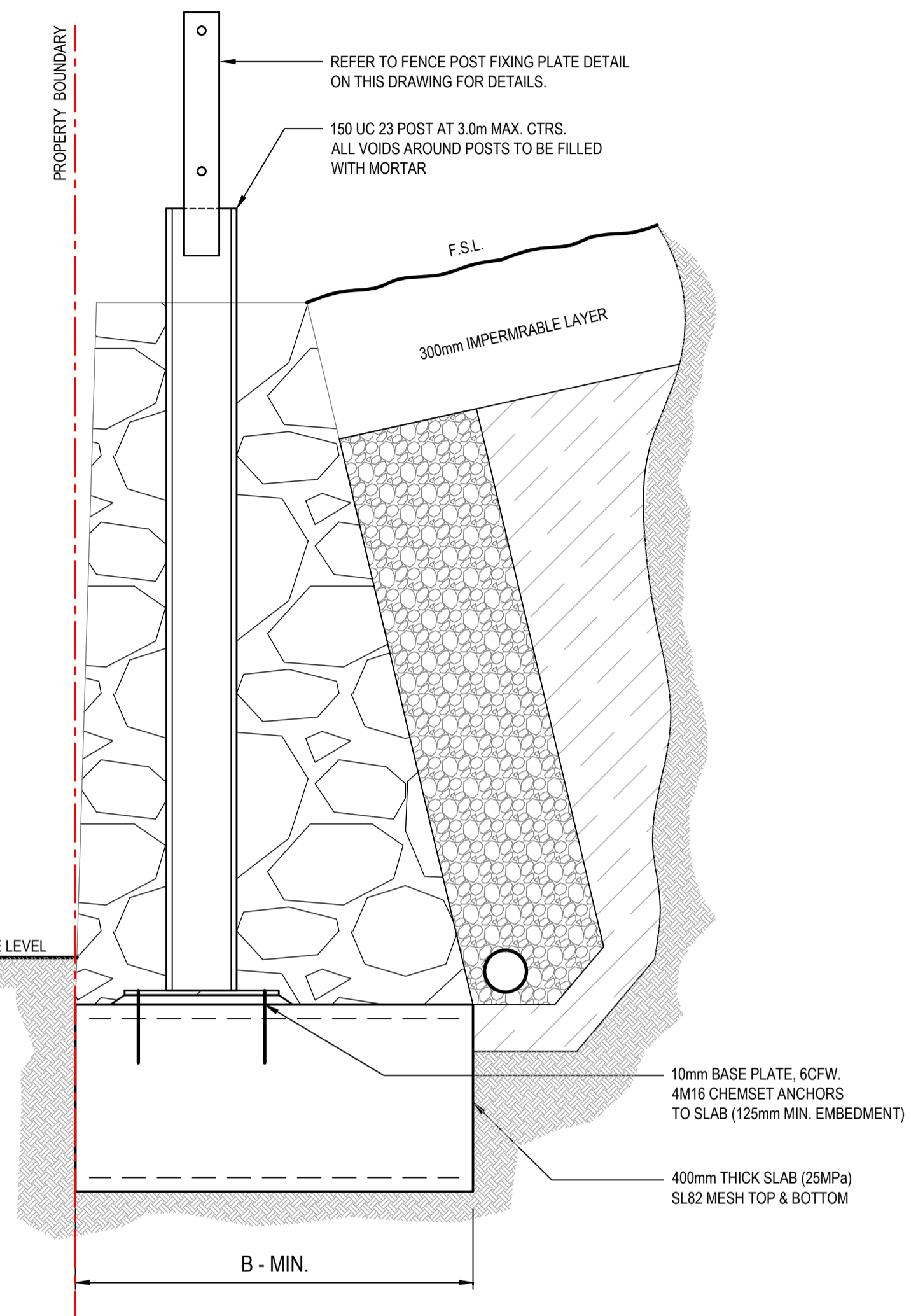
SPACING OF POSTS (mm)	RETAINED HEIGHT 'H' (mm)	DEPTH 'D' (mm)	POST SIZE	DIAMETER 'DIA' OF PIER (mm)
2400	0 - 600mm	1000	150 UB 14	450
2400	601 - 800mm	1400	150 UB 14	450
2400	801 - 1000mm	1800	150 UB 14	450
2400	1001 - 1200mm	2100	150 UB 14	450
2400	1201 - 1400mm	2400	150 UB 18	450
2400	1401 - 1600mm	2700	150 UB 18	450
2400	1601 - 1800mm	3000	200 UB 22	450



**MASS ROCK RETAINING WALL DETAIL**  
SCALE 1:10

MAX WALL HEIGHT (mm)	FOUNDING DEPTH - D (mm)	BASE WIDTH - B (mm)	FRONT FACE SETBACK - S (mm)
500	400	515	15
1000	400	600	30
1500	400	1000	45
1800	400	1200	60

**RETAINING WALL NOTE:**  
THE RETAINING WALL DESIGN ASSUMES THAT ALL FILLING USED ON SITE IS APPROVED IMPORTED MATERIAL THAT HAS BEEN COMPACTED IN LAYERS TO MINIMUM OF 95% STANDARD COMPACTION IN ACCORDANCE WITH AS1289 AND THAT THE FILLING HAS BEEN PLACED UNDER CLASS 1 GEOTECHNICAL ENGINEER SUPERVISION IN ACCORDANCE WITH AS3786. SHOULD THIS BE FOUND NOT TO BE THE CASE DURING THE CONSTRUCTION PROCESS, REDESIGN OF RETAINING WALLS WILL BE REQUIRED.



**MASS ROCK RETAINING WALL DETAIL WITH FENCE**  
SCALE 1:10

MAX WALL HEIGHT (mm)	FOUNDING DEPTH - D (mm)	BASE WIDTH - B (mm)	FRONT FACE SETBACK - S (mm)
500	400	515	15
1000	400	600	30
1500	400	1000	45
1800	400	1200	60

**NOTE 1:**  
ALL STEELWORK TO BE HOT DIP GALVANISED AFTER FABRICATION.

- CONCRETE NOTES**
- ALL CONCRETE BASED ON  $f_c = 25\text{MPa}$  NORMAL CONCRETE MIX.
  - CONCRETE SLUMP TO BE 80mm WITH A MAXIMUM AGGREGATE SIZE = 20mm.
  - CONCRETE THICKNESS NOMINATED ARE MINIMUM STRUCTURAL REQUIREMENTS.
  - ALL REINFORCEMENT TO BE 'N' TYPE HOT ROLLED DEFORMED BARS IN ACCORDANCE WITH AS471 AND BE GRADE D500N.
  - ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED AND MAINTAINED IN CORRECT POSITION DURING CONCRETING.
  - WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. ALL WELDING SHALL BE IN ACCORDANCE WITH AS1554.3
  - ALL CONCRETE WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE AS3600 AND OTHER RELEVANT AUSTRALIAN STANDARDS.
  - CONCRETE SHALL BE SUPPLIED BY AN APPROVED MANUFACTURER IN ACCORDANCE WITH AS1379.

- STEELWORK**
- CORROSION PROTECTION OF STEELWORK SHALL BE AS FOLLOWS. STEELWORK PERMANENTLY EXPOSED TO WEATHER OR AGGRESSIVE ENVIRONMENT SHALL BE HOT DIPPED GALVANISED.
- ALL WORKMANSHIP & MATERIALS SHALL BE IN ACCORDANCE WITH AS4100 S.A STEEL STRUCTURES. WELDING SHALL BE PERFORMED BY A QUALIFIED OPERATOR IN ACCORDANCE WITH AS1554. UNLESS STATED OTHERWISE.
- A. ALL CLEATS, GUSSETS & END PLATES SHALL BE 10mm THICK.  
 B. WELDING ELECTRODE SHALL BE E48XX.  
 C. ALL FILLET WELDS SHALL BE 6mm CONTINUOUS.  
 D. ALL BUTT WELDS SHALL BE FULL PENETRATION.  
 E. BOLT HOLE CLEARANCE SHALL BE 2mm.  
 F. ALL WELDS SHALL BE STRUCTURAL PURPOSE.
- THE GRADE OF STRUCTURAL STEEL SHALL BE AS FOLLOWS U.N.O.

SECTION	GRADE (MPa)
HOT ROLLED SECTIONS	300

**MASS CONCRETE RETAINING WALL FOOTING NOTES**

TOE OF WALL SHALL PENETRATE THROUGH ANY FILL MATERIAL & THE NATURAL SILT SOILS TO BE FOUND AT LEAST 100mm INTO THE UNDERLYING NATURAL STIFF CLAY OR WEATHERED ROCK.

- ALL EXCAVATIONS SHALL HAVE FOUNDING DEPTHS & BEARING CAPACITY APPROVED BY THE ENGINEER OR BUILDING SURVEYOR BEFORE CONCRETE IS PLACED.
- FOOTING EXCAVATIONS WHICH ARE DEEPEMED TO PENETRATE THROUGH UNSUITABLE SOILS SHALL BE BACKFILLED UP TO UNDERSIDE OF FOOTINGS WITH 15 MPa BLINDING CONCRETE.
- ALL EXCAVATION FOUNDING SURFACES SHALL BE LEVEL (NOT INCLINED), CLEAN CUT & FREE OF MUD OR WATER.
- ALL SEEPAGE INFLOW SHALL BE REMOVED BEFORE PLACEMENT OF CONCRETE.
- FOOTINGS SHALL BE FOUND IN STIFF NATURAL CLAY HAVING A SAFE BEARING CAPACITY OF 100 kPa.

**City of Casey**

Approved By: **Irshad Ghazi**  
 Planning Ref: **PA22-0318**  
 File No: **SEng0012725**  
 Council Ref: **R6381**  
 Date: **4/03/2026**

**Approval subject to below conditions:**

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- Relevant service authorities notification and approval is obtained.
- Before starting any work, the contractor must contact Council's Construction Supervision Team on 9705 5200 to arrange Council supervision of the works.
- PDF copy of the "As-constructed" engineering plans must be submitted to [engineeringplans@casey.vic.gov.au](mailto:engineeringplans@casey.vic.gov.au) with references to Council reference numbers.
- A CCTV report must be submitted to the Council supervisor and SubdivisionsConstruction@casey.vic.gov.au for all drainage lines prior to issue of practical completion.
- As-constructed plans and asset information (A-SPEC format) must be provided to Council's satisfaction before settlement of compliance will be issued. Grid Coordinates must be MGA Zone 55 (GDA 2020).



REVISION	DETAILS	DATE	APPROVED
P2	APPROVAL ISSUE	30.08.2024	MA
P1	APPROVAL ISSUE	26.08.2024	MA

**APPROVAL**

CIVIL	
Designed M ALLAN	Date APRIL 2023
Drawn M.T	Scale AS SHOWN @ A1 SHEET

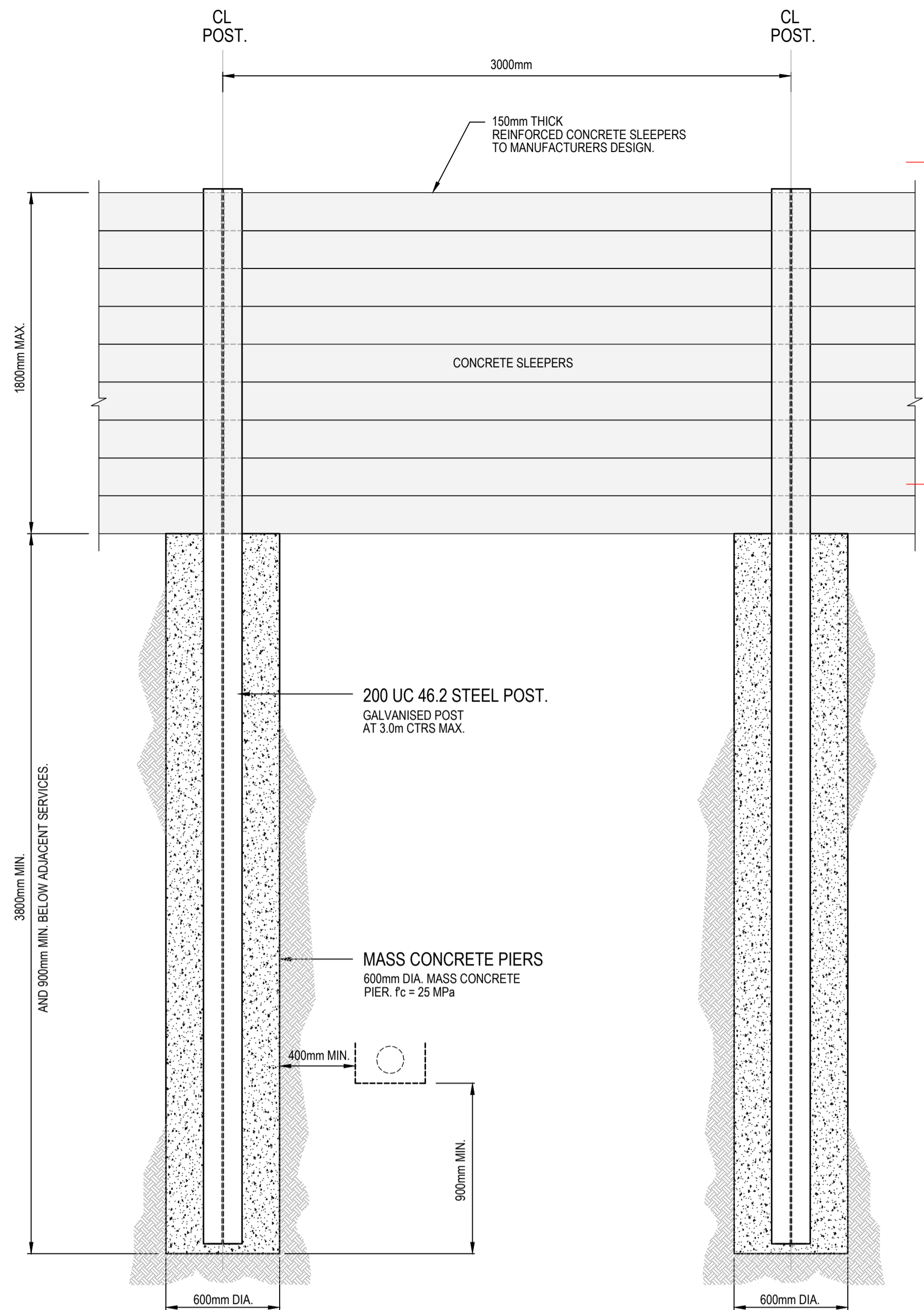


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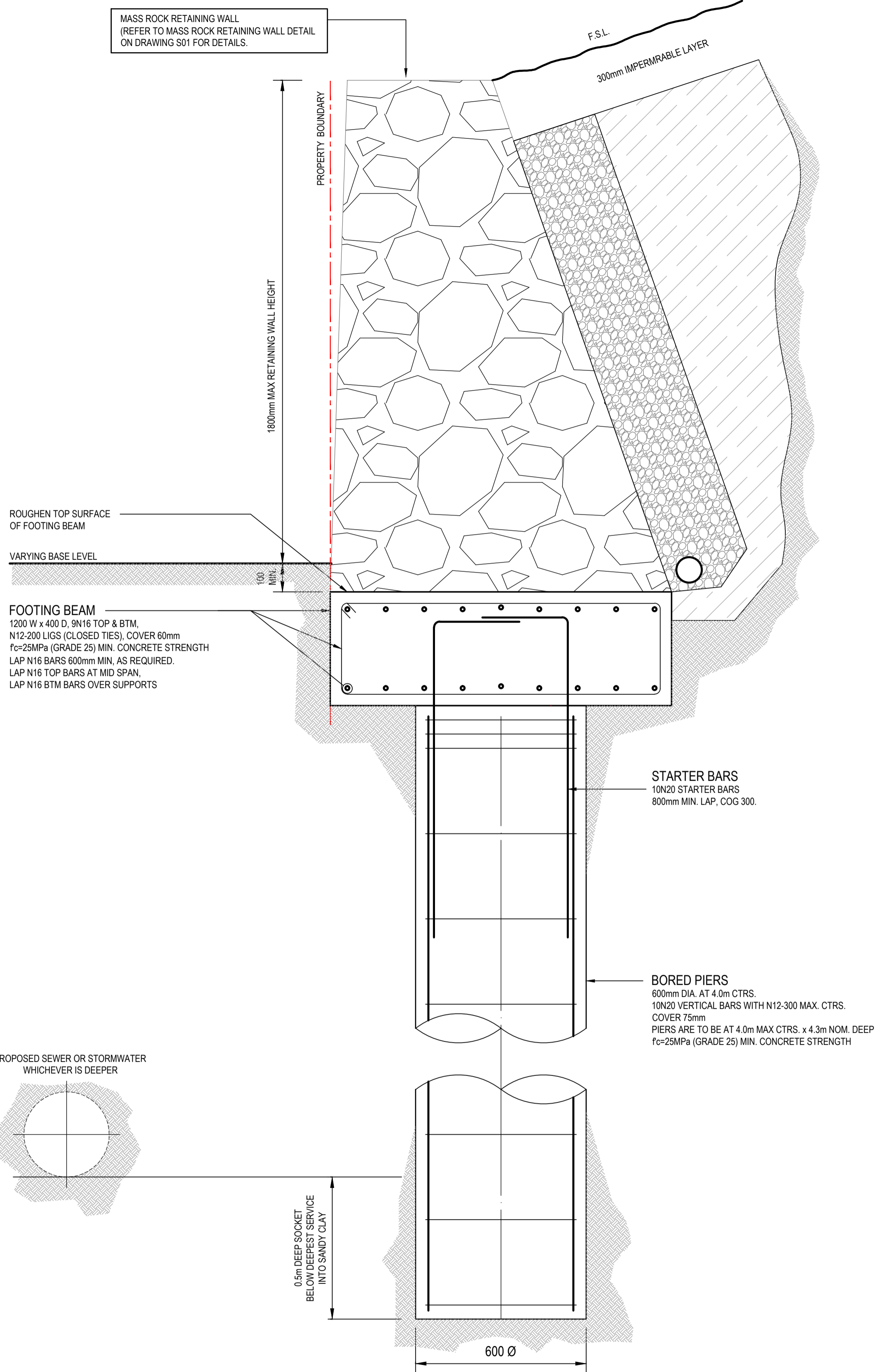
Project Title :  
**RIVERFIELD SQUARE ESTATE**  
**1675 BALLATO ROAD,**  
**CLYDE NORTH**

Drawing Title :  
**RETAINING WALL DETAILS**  
**SHEET 1**

Drawing No :  
**177-01-S01**



RETAINING WALL DETAIL  
CONCRETE SLEEPER WITH 3.0m SPAN



MASS ROCK RETAINING WALL ON PIERS NEAR PARALLEL SEWER OR STORMWATER DETAIL  
SCALE 1:10

**City of Casey**  
 Approved By: Irshad Ghazi  
 Planning Ref: PA22-0318  
 File No: SEng00127/25  
 Council Ref: R6381  
 Date: 4/03/2026

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APPROVAL

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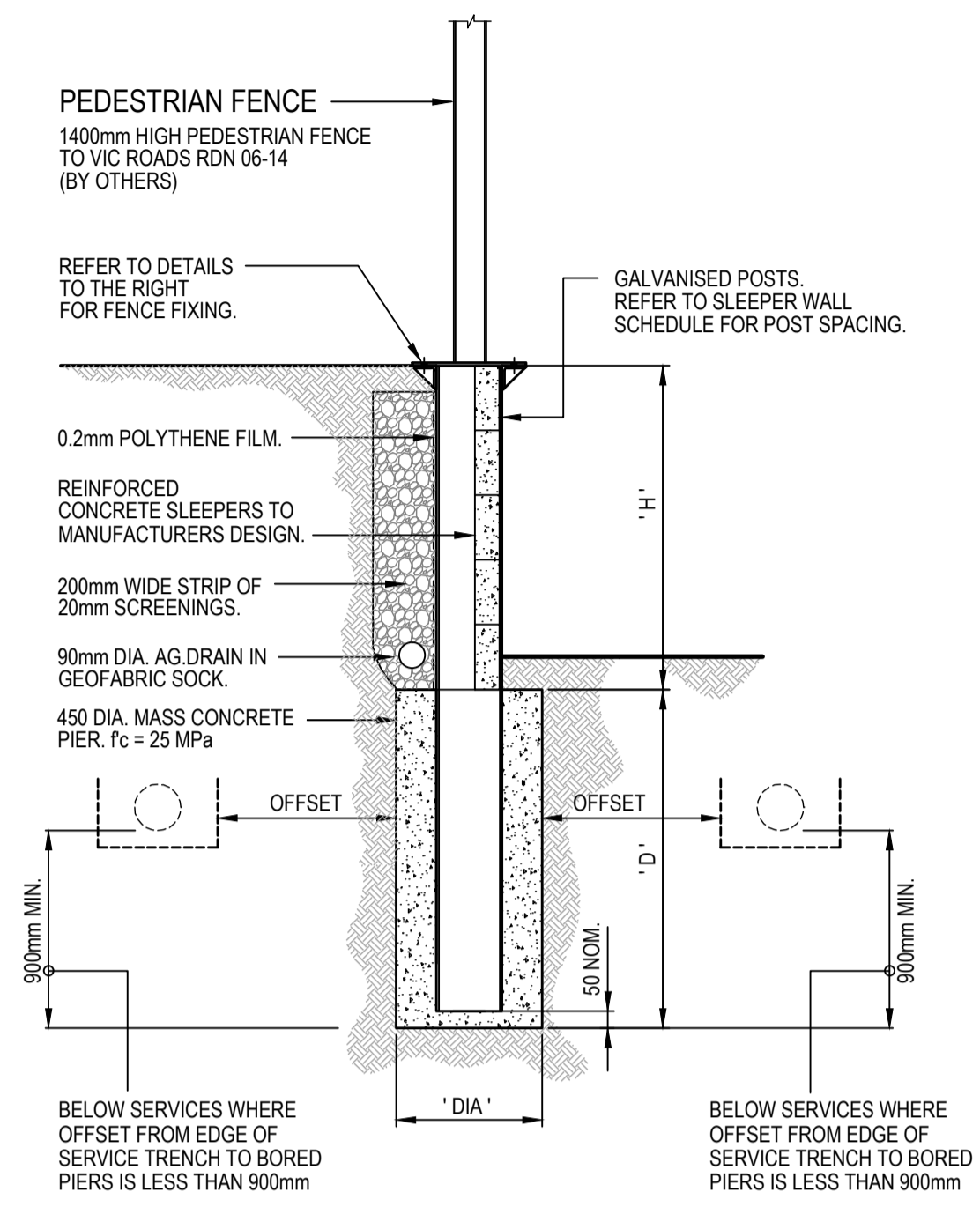
RIVERFIELD SQUARE ESTATE  
 1675 BALLATO ROAD,  
 CLYDE NORTH

Drawing Title :

RETAINING WALL DETAILS  
 SHEET 2

Drawing No :

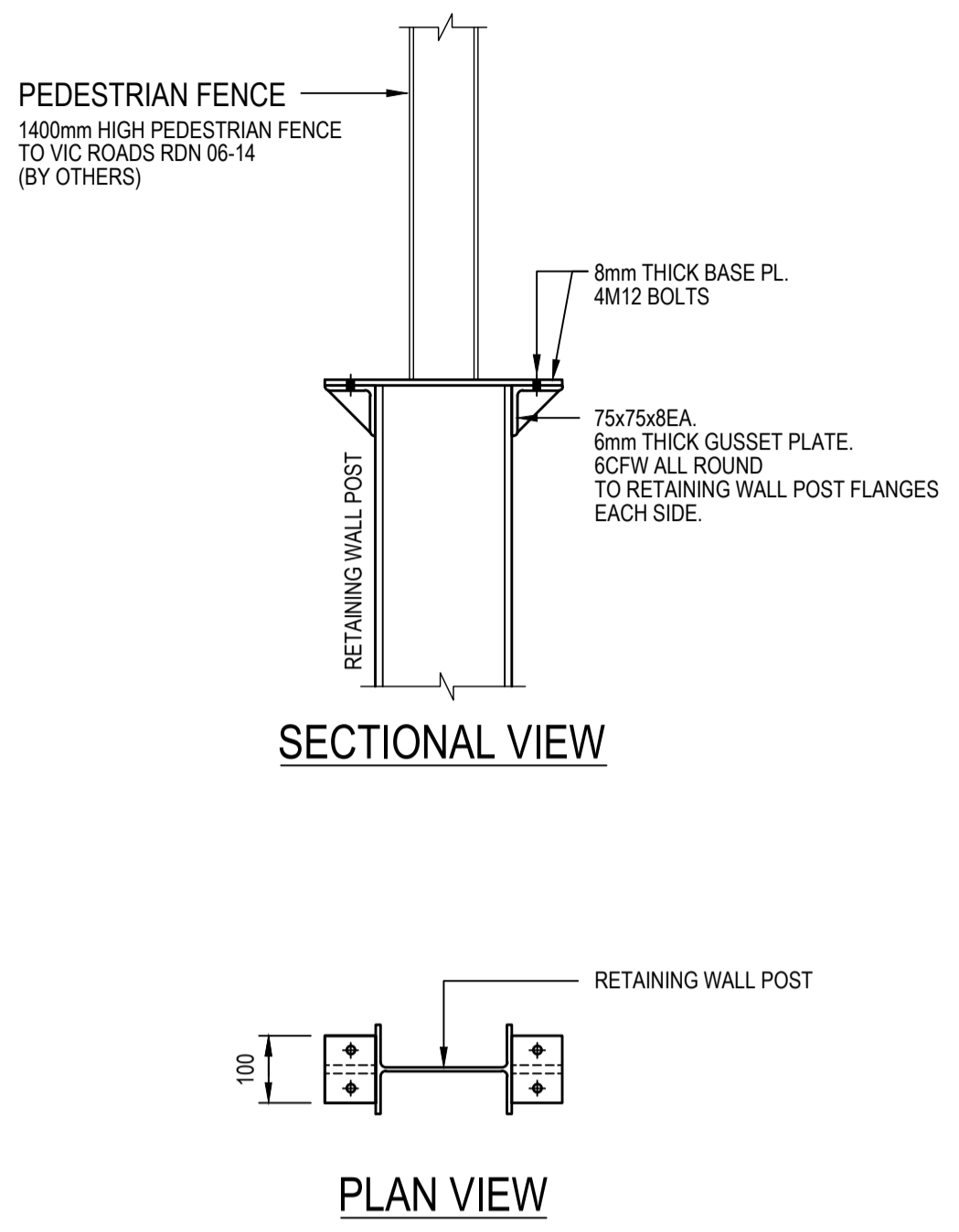
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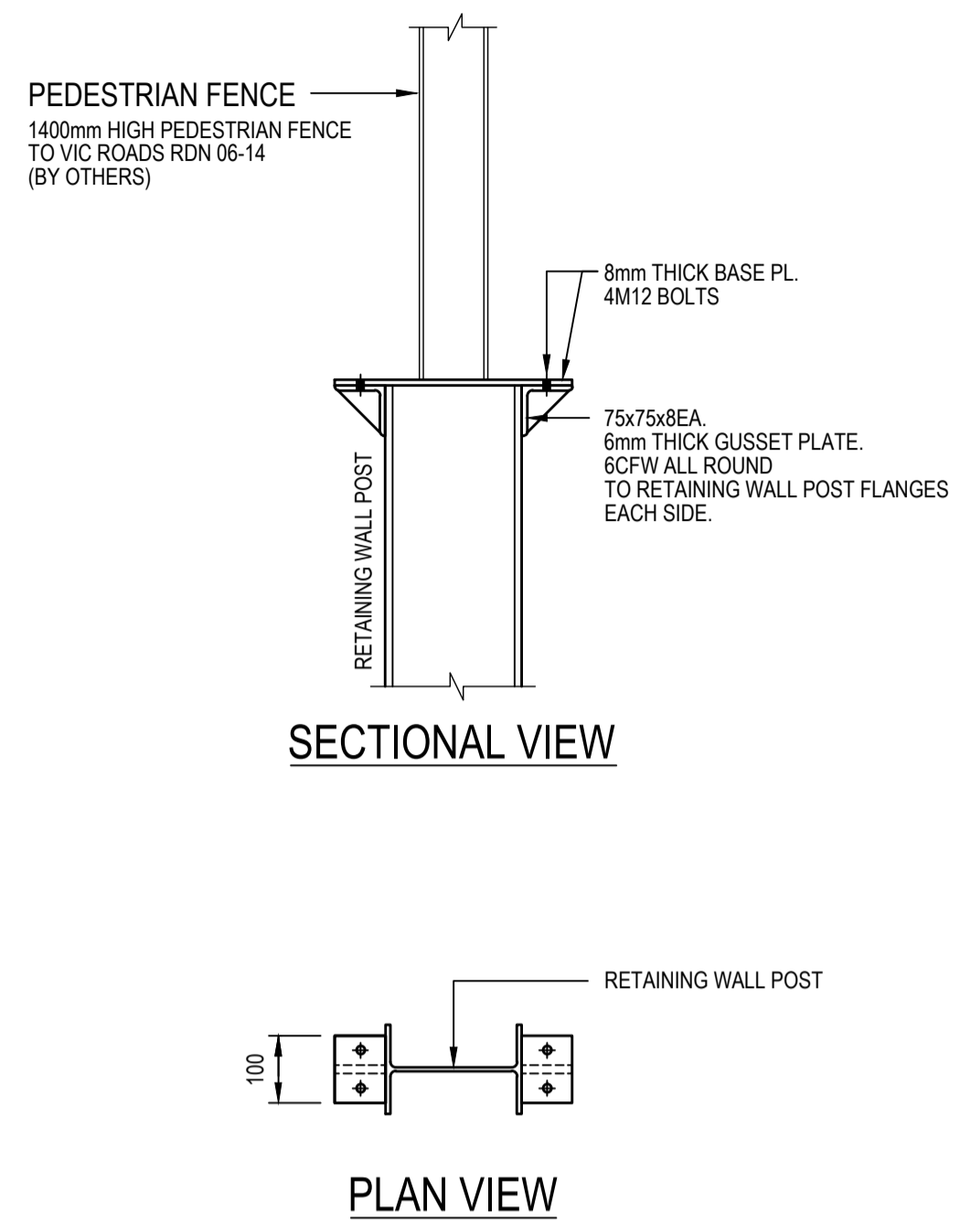
**REINFORCED CONCRETE SLEEPER RETAINING WALL WITH 1.4m HIGH PEDESTRIAN FENCE TO VIC ROADS STANDARDS**  
SCALE 1:20

- REFER BEVERIDGE WILLIAMS DRAWINGS FOR WALL LOCATIONS AND HEIGHTS.
- WHERE BASALT IS PRESENT, THE BORED PIER FOOTINGS SHALL BE SOCKETED 900mm MINIMUM INTO SOLID UNDISTURBED BEDROCK

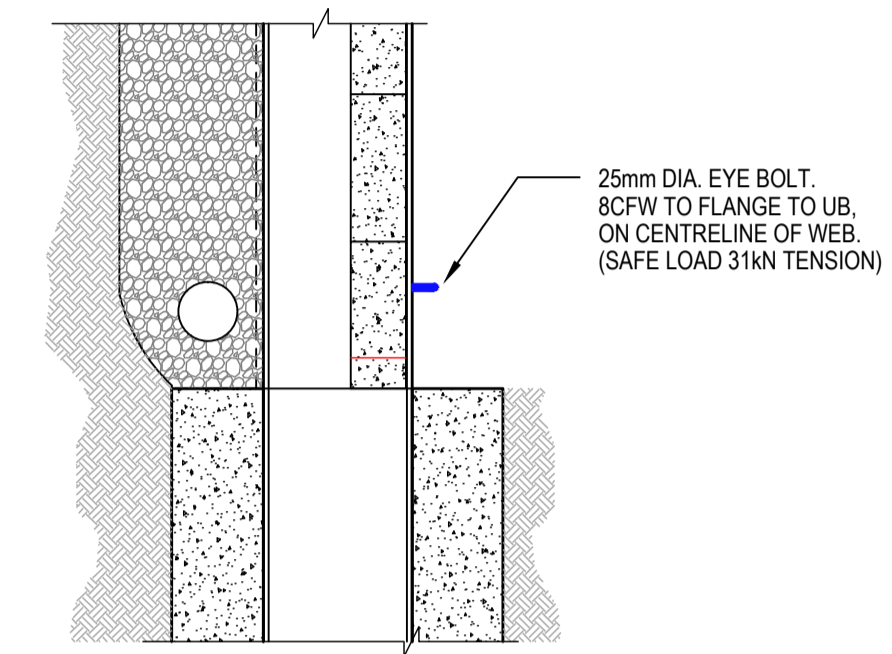
SLEEPER WALL SCHEDULE				
SPACING OF POSTS (mm)	RETAINED HEIGHT 'H'	DEPTH 'D'	POST SIZE	DIAMETER 'DIA' OF PIER (mm)
2400	0 - 600mm	1300	150 UB 14	450
2400	601 - 800mm	1700	150 UB 14	450
2400	801 - 1000mm	2000	150 UB 14	450
2400	1001 - 1200mm	2400	150 UB 14	450
2400	1201 - 1400mm	2700	150 UB 18	450
2400	1401 - 1600mm	3000	150 UB 18	450
2400	1601 - 1800mm	3300	200 UB 22	450



**FENCE POST BASE FIXING DETAIL TO 150 UB**  
SCALE 1:10



**FENCE POST BASE FIXING DETAIL TO 200 UB**  
SCALE 1:10



**TYPICAL ELECTRICAL EYE BOLT DETAIL**  
SCALE 1:10

**City of Casey**

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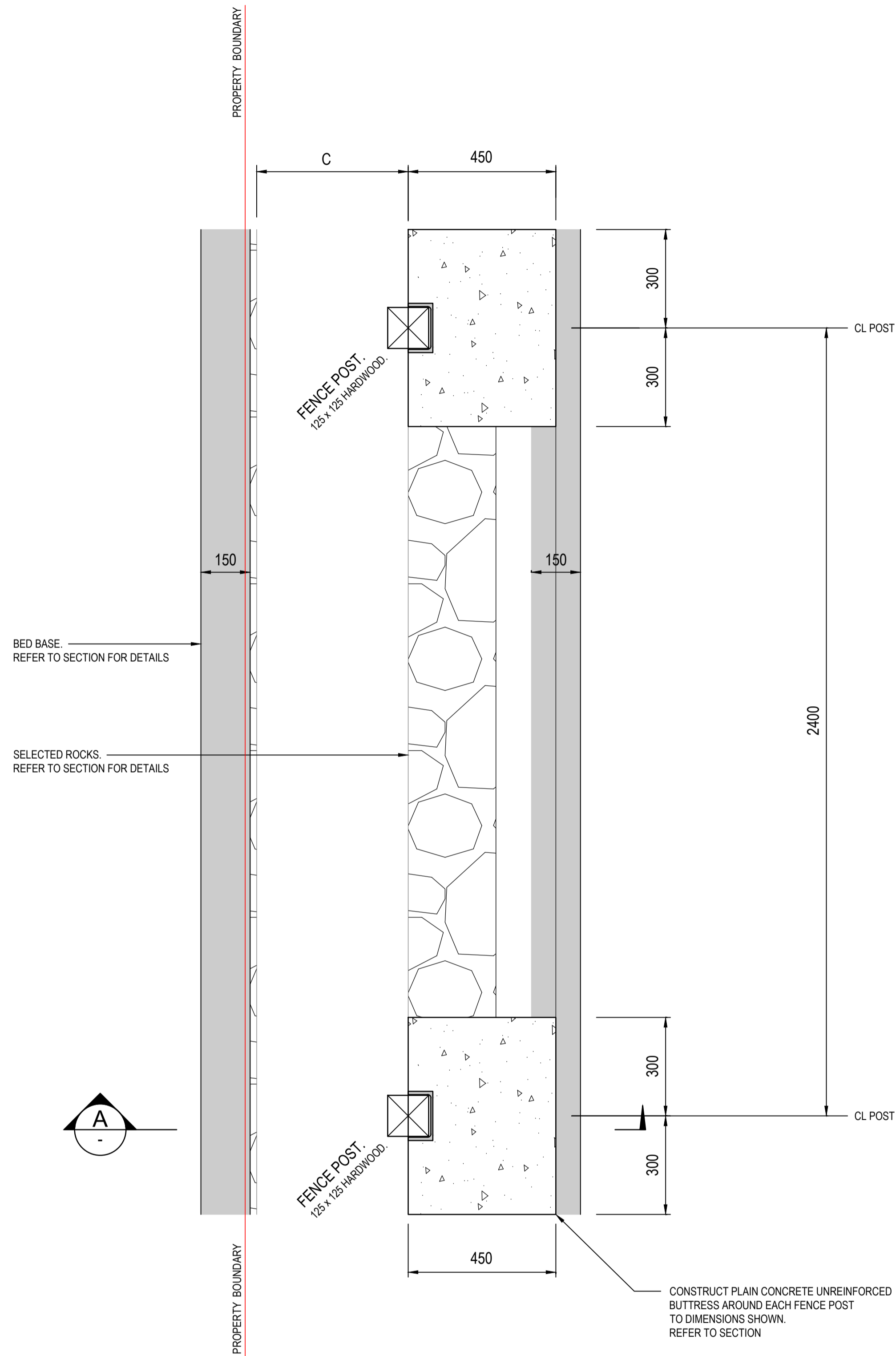


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**SHEET 3**

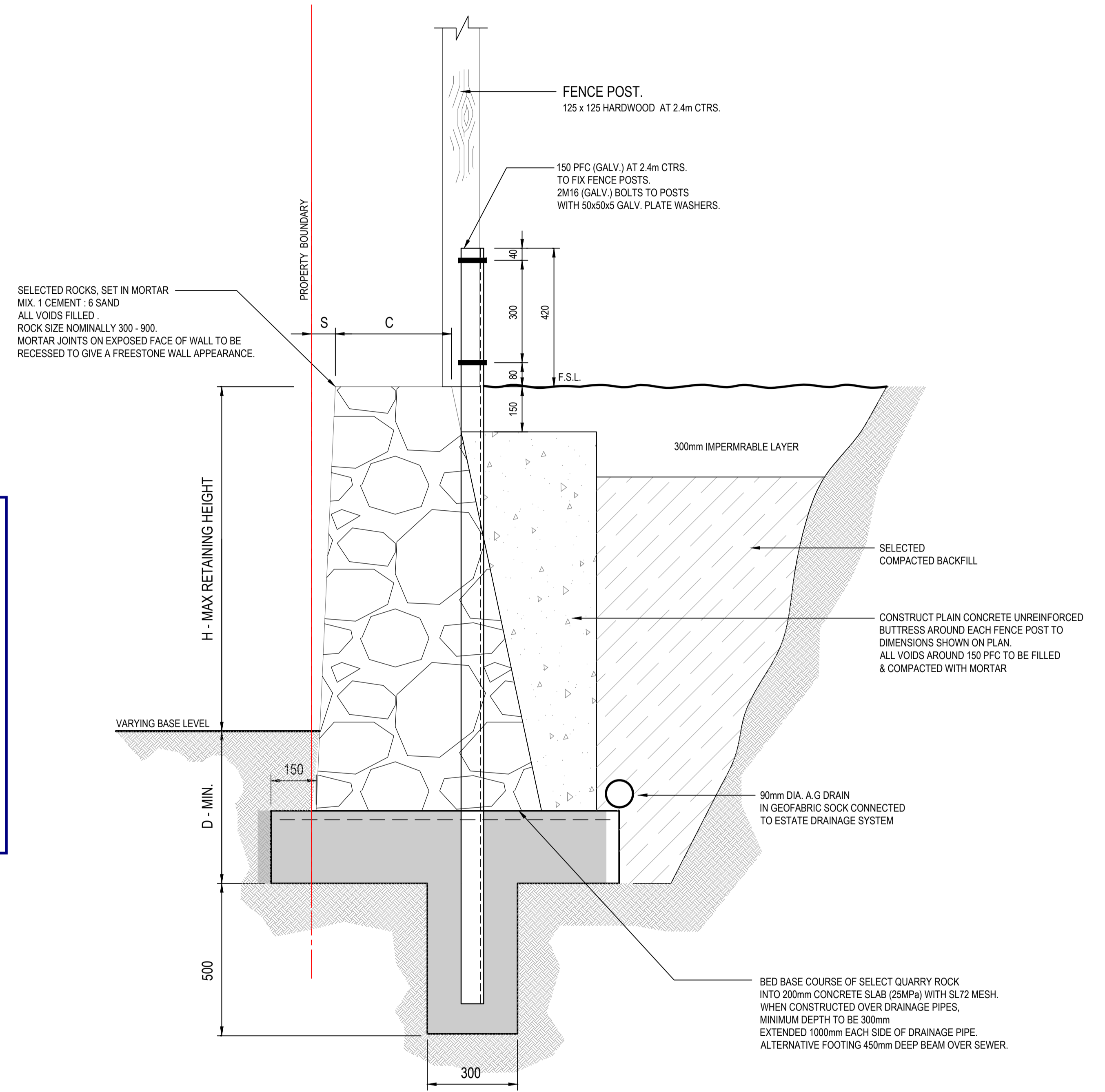
Drawing No :  
**177-01-S03**



PLAN VIEW

MASS ROCK RETAINING WALL DETAIL WITH PAILING TIMBER FENCE - TYPE RR

SCALE 1:10



SECTION A-A

MASS ROCK RETAINING WALL DETAIL WITH PAILING TIMBER FENCE - TYPE RR

SCALE 1:10

**City of Casey**

Approved By: **Irshad Ghazi**  
 Planning Ref: **PA22-0318**  
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P1	APPROVAL ISSUE	30.08.2024	MA
REVISION	DETAILS	DATE	APPROVED

**APPROVAL**

CIVIL	
Designed	Date
M ALLAN	APRIL 2023
Drawn	Scale
M.T	AS SHOWN @ A1 SHEET



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**SHEET 4**

Drawing No :  
**177-01-S04**