

# MERIDIAN CENTRAL ESTATE - STAGE 41

## BROWNS PROPERTY PTY. LTD.

### CITY OF CASEY

#### City of Casey

Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date: 19/04/2023  
 Council Drawing No.: R5956  
**Approval subject to:**  
 - A free draining out being available prior to Statement of Compliance.  
 - Drainage in future Stages 42, 43 & 45 may be amended  
 - A TMP approved prior to commencement of works.  
 - An EMP approved prior to commencement of works.  
 - Relevant service authorities notification and approval

Signed:

#### 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 7251/4/203) along extent of outfall drain where the drain is greater than 1.5m in depth & side slopes are steeper than 1 in 3. Safety fence to remain until permanent underground drainage is installed.
- A6. Contractor to remove existing irrigation & drainage pipes & pits encountered on site. Trenches to be backfilled in accordance with notes C2 & C3.
- A7. An environmental management plan (EMP) must be submitted to and approved by Council prior to the commencement of any works on site and all works must be carried out in accordance with this EMP.
- A8. 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.

##### GENERAL

- B1. All works to be carried out in accordance with AS2124-1992 general conditions of contract & the City of Casey and EDCM 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 TBMs & control points are to be maintained & protected at all times during construction. Should any marks be disturbed, the contractor will immediately notify the consultant to arrange re-installment at the 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. As constructed plans and electronic asset information in D-Spec and R-Spec format must be submitted to Council prior to practical completion.
- B11. 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.

##### 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 concrete marks the kerb & footpath exactly above the conduit.
- C9. Irrigation conduits are to be DN100 DWV PVC installed beneath the pavement and/or capping layer, if present. Locations are to be marked using a green dot spray painted on the top of kerb.
- C10. All footpaths are to be 125mm thick 25MPa concrete with SL72 mesh centrally located in accordance with the MPA standard drawing EDCM 401.
- C11. NBN Co to be notified seven (7) days prior to concrete works being placed.
- C12. Electrical distribution pits within footpaths are to be a minimum of 300mm within the edge of the path. Concrete is to be placed around distribution pits to a minimum depth of 200mm.
- C13. All street signs to be constructed & erected to current 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 pram 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.

##### 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.

##### TEMPORARY DRAINAGE FACILITY NOTES

1. All construction to be in accordance with Melbourne Water corporation & City of Casey standard drawings & specifications.

2. All drains to be nominal size RC pipes unless shown otherwise.
3. Pipe connections to pipeline to be as per Melbourne Water corporation standard drawing 7251/4/306 & 7251/4/307.
4. Pipe bedding & backfill to be as per Melbourne Water corporation standard drawing 7251/4/301 & 7251/4/302.
5. All coordinates are to local datum.
6. All levels are to Australian Height Datum (AHD).
7. The location of existing services should be determined by the contractor prior to commencing any excavations by contacting all local service authorities. Any existing services shown on the drawing are offered as a guide only & are not guaranteed as correct.
8. The contractor when engaged in blasting shall not blast within 4.5m of any existing line of water, gas or sewer pipes or within 15m of any completed part of the works without consent of the superintendent.
9. The contractor is to ensure that his construction procedures & standards control the volume & location for collection of sediment discharge according to current best practices. This includes the erection of silt fences & silt collection measures such as hay bales & other approved methods.
10. Upon completion of construction the whole site shall be cleaned up, graded & all rubbish removed. The site is to be left in a clean & tidy condition to the satisfaction of the superintendent.
11. Inlets shall be sealed with close boarded hardwood except those connected to existing drains.
12. All exposed earth surfaces to be top soiled to a minimum thickness of 75mm & grassed at the completion of the contract.
13. Existing open water course to be kept clear of obstructions to allow flows to discharge without flooding at all times.
14. If stable rock invert is encountered on site, grouted rock work shall not be required.
15. Before commencing work on drains in excess of 1.5m deep, a notice of such a proposal is to be sent to the Occupational Health & Safety Authority in accordance with Clause 202 of the Mines (Trenches) Regulations. The contractor shall erect & maintain all shoring, planking & strutting, the watering devices, barricades, signs, lights etc, necessary to keep works in a safe & stable condition, & to protect the public from hazards associated with the works.

Grassing of reserve to be carried out using "tree-way mix" or similar approved which is made up of the following grasses:

%	by count
Jazz rye	19
Citation FL rye	18
Duet FL rye	18
Annual rye	23
Tudor CR red fescue	9
Kentucky blue	12
O'connors strawberry	1
Nutricote slow release fertilizer	(10)
Total	100 (110)

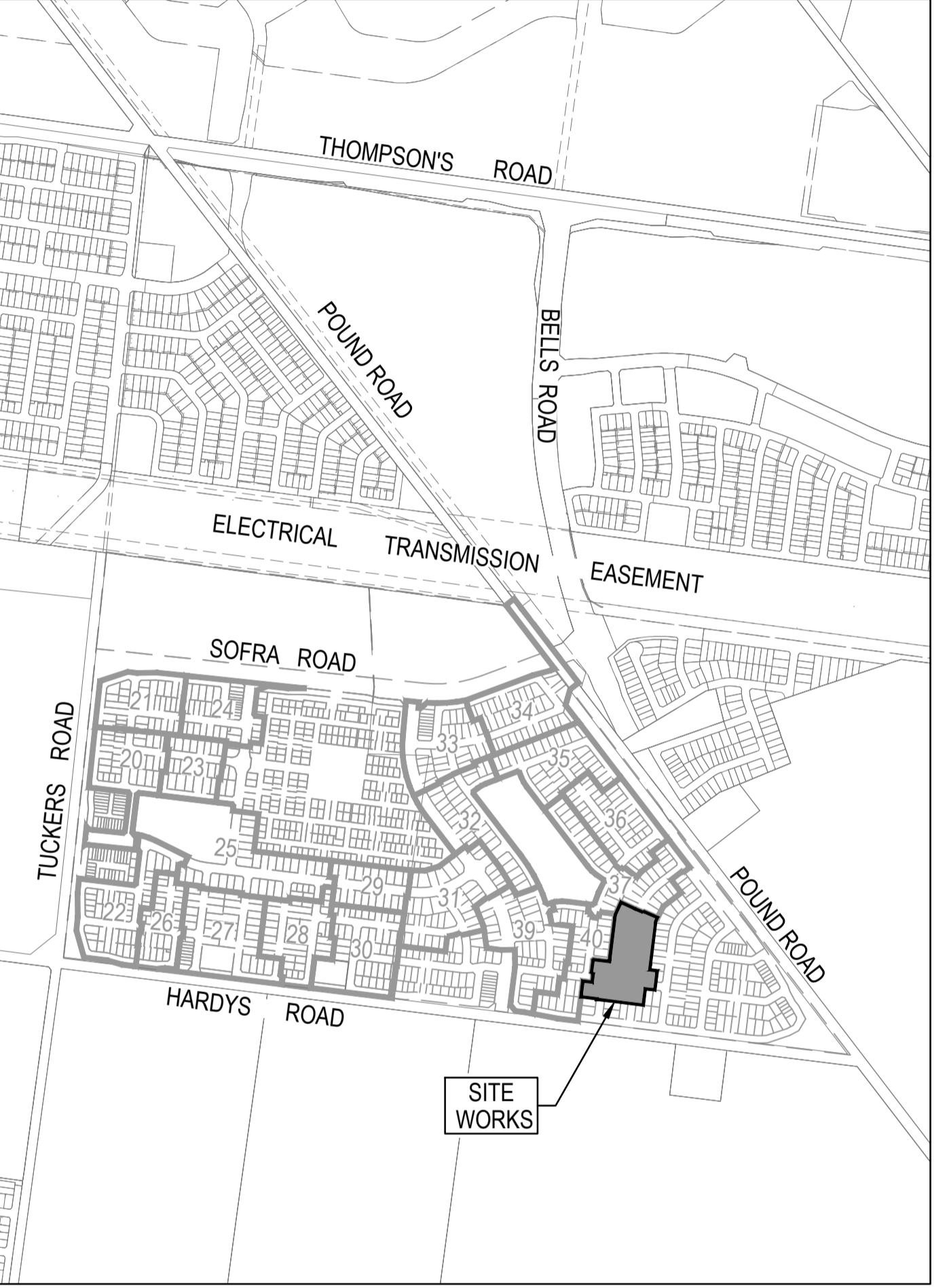
17. 5 clear days notice prior to the commencement of the works must be given to program leader surveillance, waterways, Melbourne Water (ph. 03 9235 2171).
18. Filling to be carried out in 150mm layers & compacted to the requirements of the specification. Testing to be carried out as advised by the superintendent.
19. Bottom step iron to be located 300mm max from invert of pipe.
20. Geotechnical testing of outlet embankment fill material must be carried out by a NATA accredited laboratory and include assessment of fill suitability for prevention of piping failure.
21. Outlet embankment is to have select fill compacted in max. 300mm layers to 95% MMDM with moisture content at OMC to +2%.
22. The project area contains hazardous services including underground fibre optic cables & other communication cables, & overhead electrical cables. For assistance in locating underground cables refer to construction please contact a credited plant locator.
23. No construction is allowed within 3m of overhead power lines on poles, a "spotter" (safety observer) is required for works within the range 3 to 6.4m of overhead power lines. The contractor is to notify SP Ausnet on 9238 6300 before the commencement of works, written permission must be obtained from SP Ausnet to operate equipment within the area of overhead power lines & a pre-start on site meeting & a risk assessment must be completed.
24. The contractor is to liaise with property owners & the supervising engineer while construction proceeds through private property. The area of works are to be kept to a minimum. Temporary fencing is to be erected to restrict livestock wandering into works area.
25. HDPE Plastic Liner to be 2mm thick. Contractor to ensure liner is laid taut to avoid loose placement or folds. Liner is to be installed from downstream end with 300mm overlap in the direction of the flow. Liner sections are to be heat welded to form impermeable seal. Liner to be tucked down pit walls and any other concrete structures at a minimum 500mm. Liner to be keyed in along top of embankment minimum 700mm deep.

##### DRAWING INDEX

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##### ROCKWORK

26. Areas on which rock is to be placed shall be trimmed as required to provide a finished surface level of rock in accordance with the drawings, any scours or hollows in the surface shall be stripped of organic matter and any unsuitable base material and then filled with compacted crushed rock.
27. The general concept of rockwork construction is:
- It should be made up of angular rock (either quarried or broken up field rock) with a minimum specific density of 2.4.
  - It must be made up of well sized, well graded, well embedded, well interlocked rock.
  - All voids must be sealed to provide stability and resistance to flow velocities and infiltrations/undermining.
  - It should form an interlocking mass of rock in which the larger rocks in the mix are not free to move.
28. All rockwork shall be done to the satisfaction of the Council on-site representative.
29. Rocks should finish flush with surrounding ground.
30. Toe and edge rocks should be trenched into in-situ ground, ground should be boxed-out to enable toe and edge rocks to be placed before filter layer and lining rocks.
31. LINING ROCKS  
 Lining rock is the mass rock medium contained by the leading edge rock to armour/protect the given earth surface. With lining rocks the following should be considered:
- A filter/embedment layer should be used underneath (refer note 32).
  - Lining rocks should be well graded to form a tightly sealed rock layer which is free of voids and provides resistance to flow velocities and infiltration/undermining as per the general intent of rockwork mentioned in note 27. In sealing voids consideration should be given to using a smaller graded rock mix (ie. also referred to as an infill mix). Depending on the size of the voids, a 0-150mm infill mix may be appropriate. Depending on rock availability and construction method adopted, sealing of the rockwork may occur as a pre-mix (ie. infill mix is combined with larger lining rocks before placement), or by working the infill mix between the larger rocks as they are laid.
  - The contractor should use methods for handling and placement of lining rock that will avoid segregation of the rock sizes. Rocks shall be carefully placed and positioned, not dumped directly.
32. Filter/embedment layer  
 Granular filter/embedment layers are usually sufficient, however some sandy, dispersive soils may warrant the use of a geotextile filter layer in addition to the granular filter layer. Where a geotextile filter layer is used, special care needs to be exercised in the laying of the rockwork and consideration given to a thinner granular filter/embedment layer over the geotextile layer to prevent damage to the fabric.
- With granular filter/embedment layers the following should be considered:
- Layer thickness - should generally be 100mm or thicker - depending on type of underlying soil (ie. more or less dispersive), rock size, and hydraulic conditions.
  - Use of graded rock - should generally be limited to 0-100mm graded rock, one size ballast rock is considered ineffective as it does not resist flow infiltration.



##### SITE PLAN

NOT TO SCALE  
 MELWAY REF: 135 F4

**Survey Origin:**  
 Coordinates are on a local plane datum based upon MGA2020 Zone 55 bearings and truncated MGA2020 Zone 55 co-ordinates at PM77. Heights are to AHD via Permanent Mark PM 56 (Cranbourne) RL 26.71 Bearing Datum is MGA2020 Zone 55 which has been derived by our GPSnet Survey.  
 Plane Grid Coordinates to MGA2020 Zone 55 Grid Coordinates  
**Conversion.**  
 (PLANE SHIFT) Add + 353,823.586 to Eastings  
 (APPLY SCALE FACTOR) Add +5,780,840.520 to Northings  
 Scale by 0.999846 at point PM77

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
C	DRAWING INDEX UPDATED	11.04.23	MF	MF					
B	DRAWING INDEX UPDATED	06.02.23	MF	MF					
A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					



Designed: C.DAWSON  
 Date: 28.10.2022  
 Drawn: L.SUTHERLAND  
 Checked: M.FELICIANO  
 Date: 21.11.2022  
 Approved: M.FELICIANO  
 Reg. No.: PE0905645  
 Date: 21.11.2022  
 PS Number: PS906797B

**BW Beveridge Williams**  
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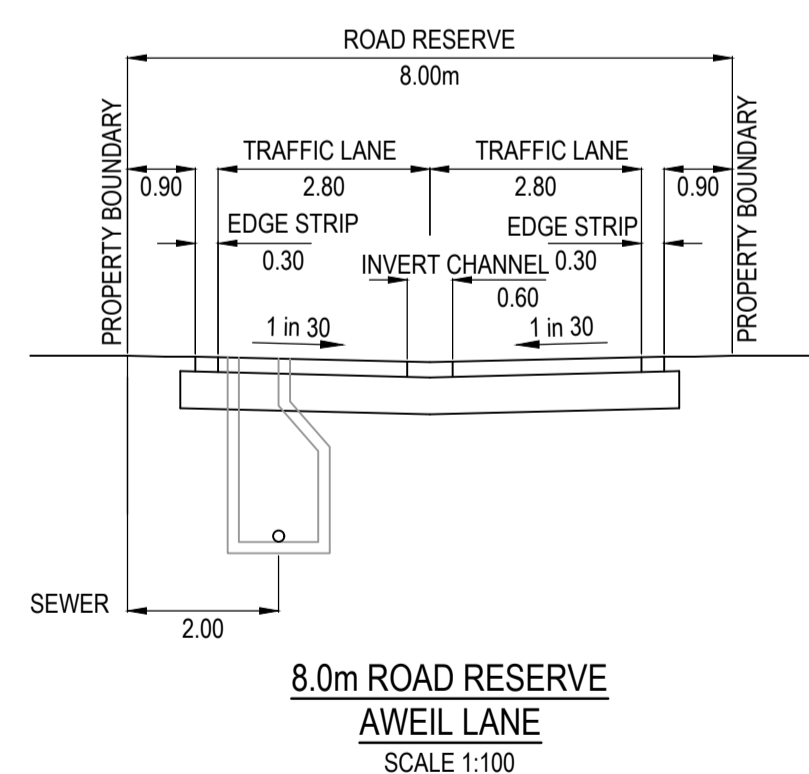
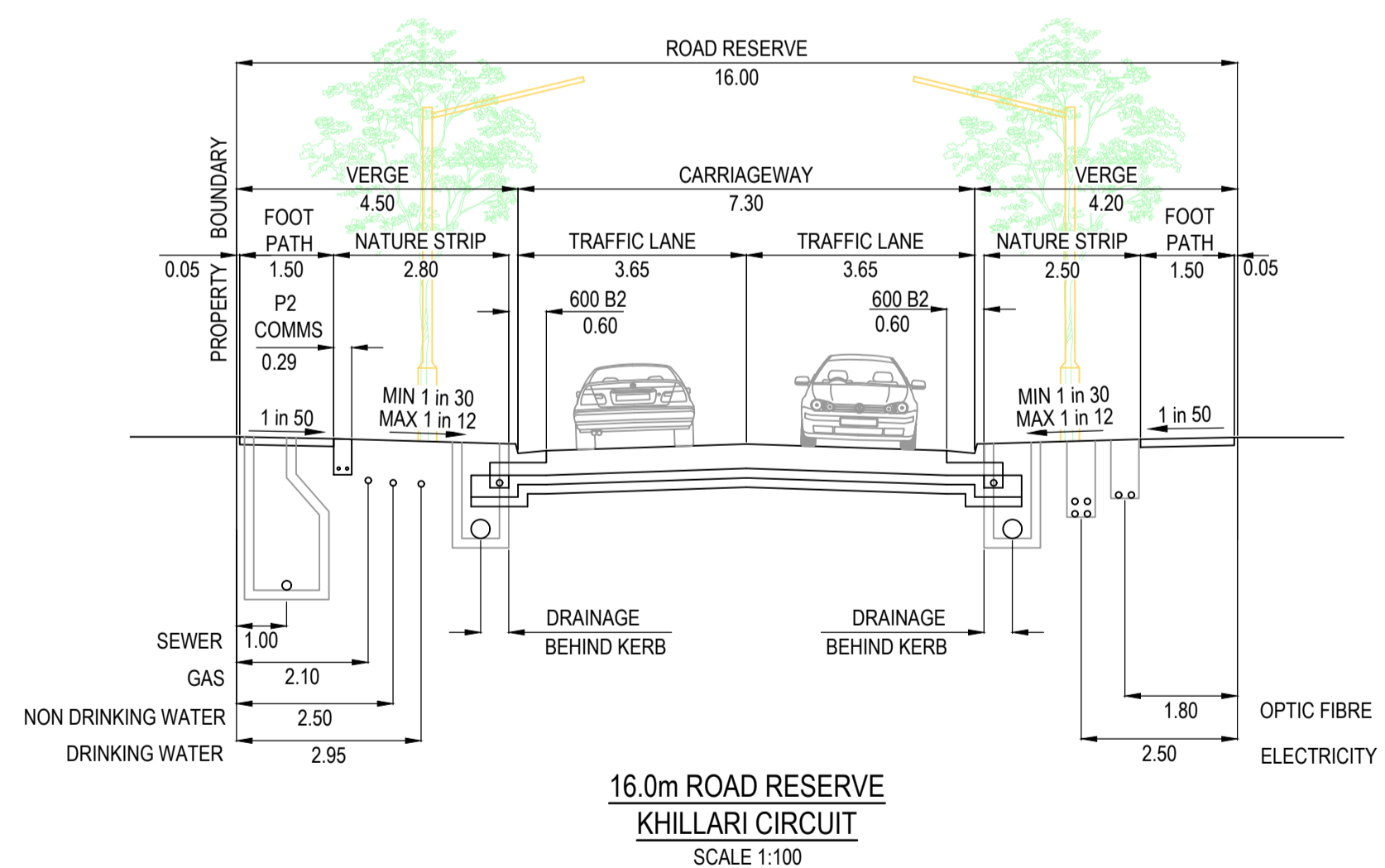
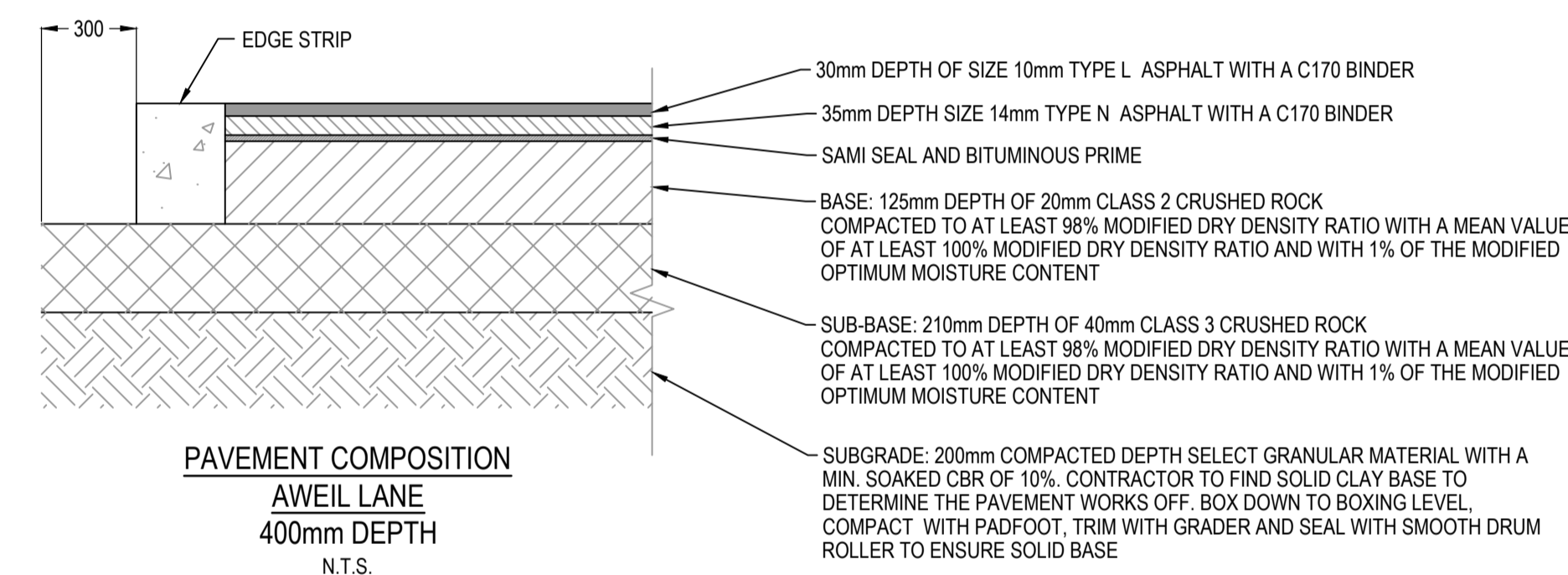
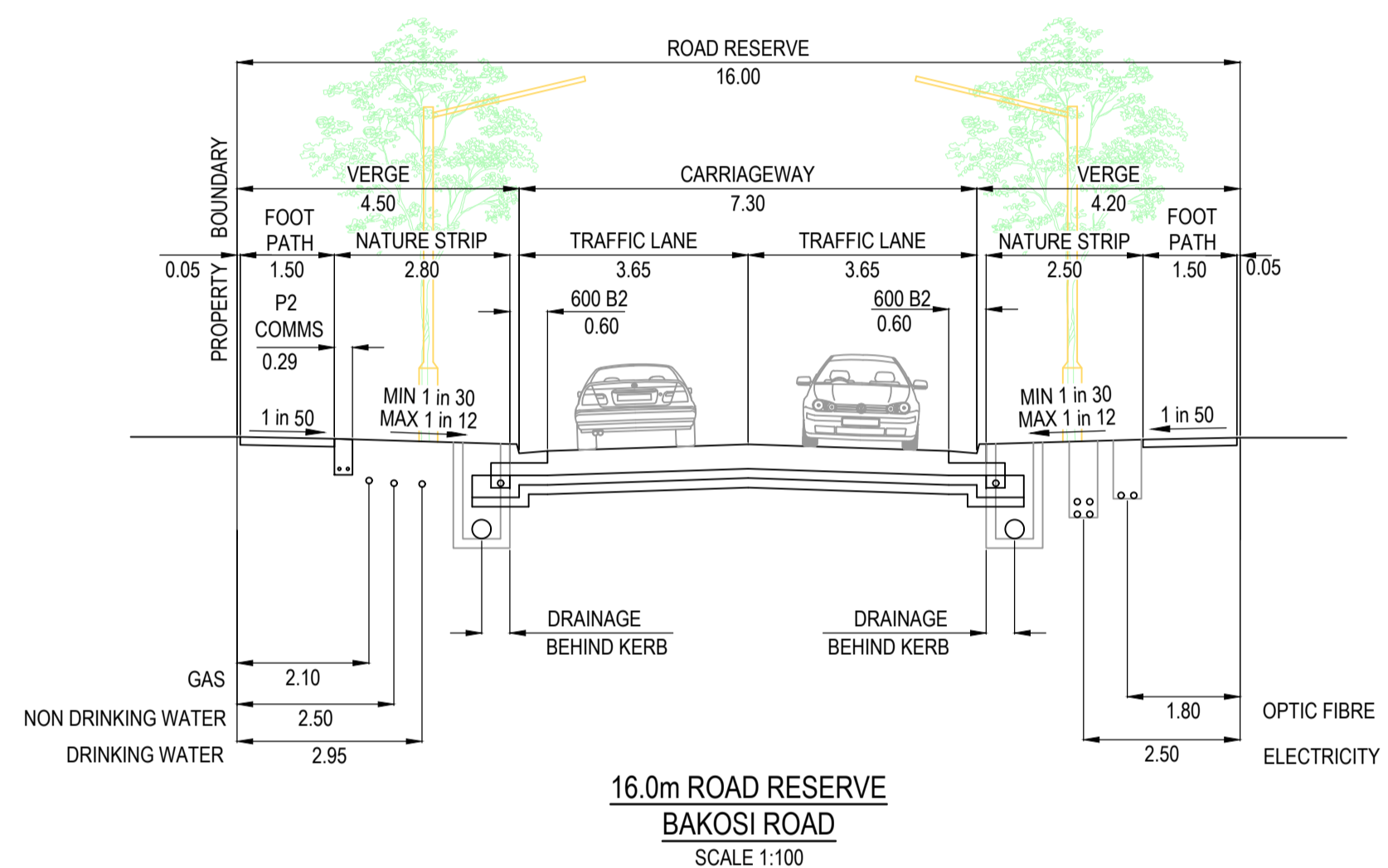
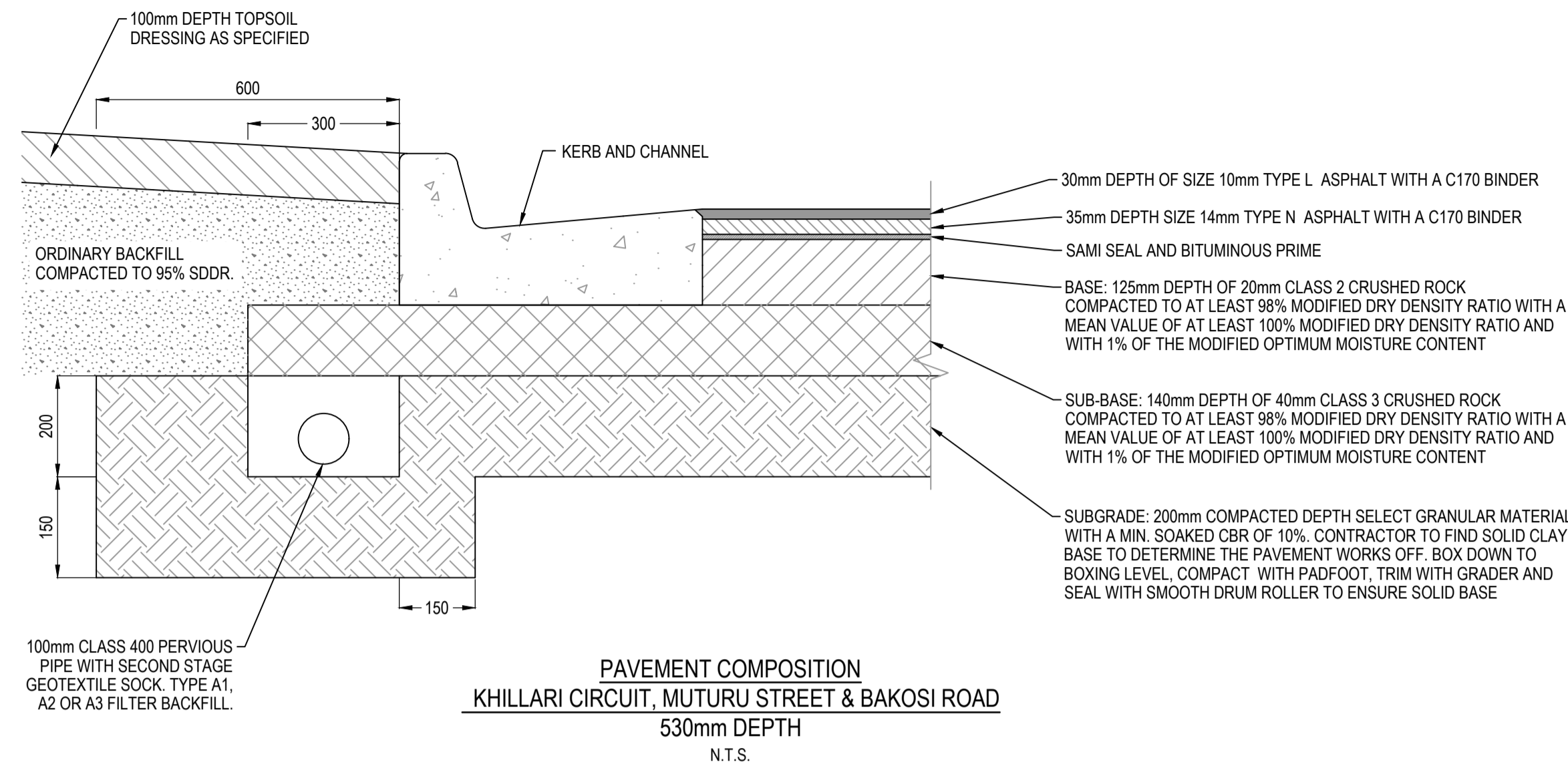
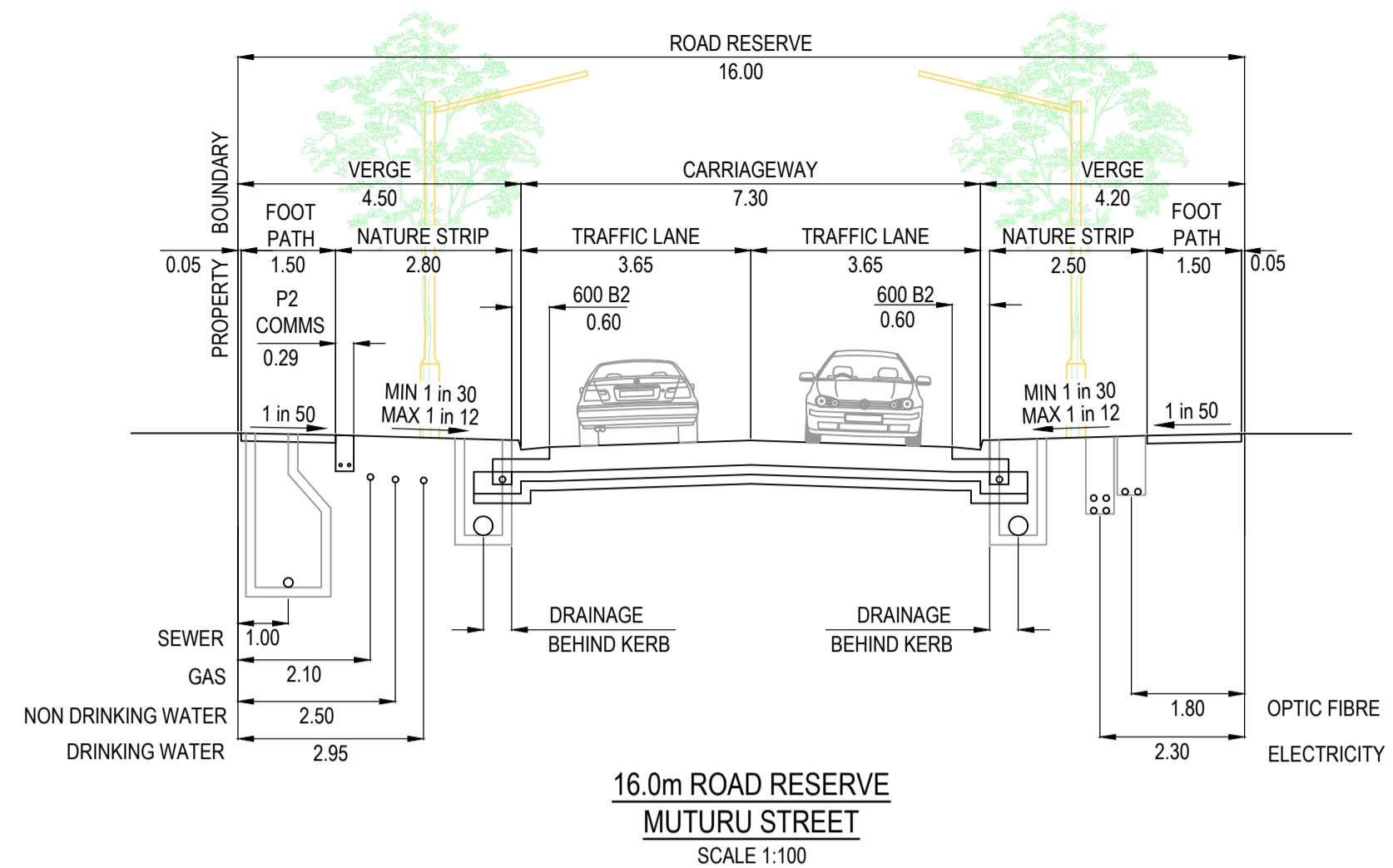
Project Details: MERIDIAN CENTRAL ESTATE  
 STAGE 41  
 CITY OF CASEY

Drawing Title: COVER SHEET

Sheet 01 of 23

Scale:

Project Ref: 1801767  
 Stage No: 41  
 Drawing No: 001  
 Rev: C



**City of Casey**

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					



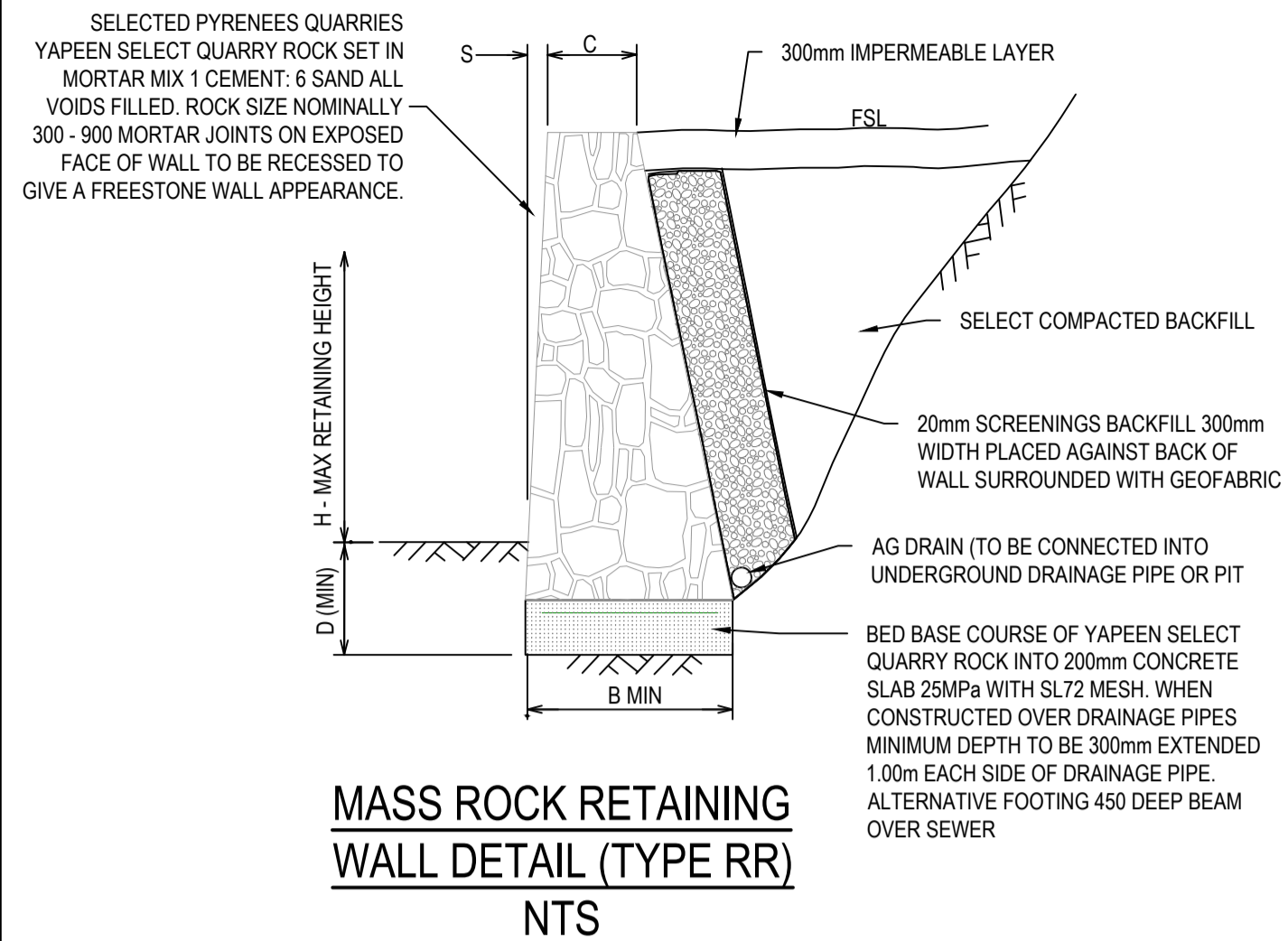
Designed	C.DAWSON
Date	28.10.2022
Drawn	L.SUTHERLAND
Checked	M.FELICIANO
Date	21.11.2022
Approved	M.FELICIANO
Reg. No.	PE0005645
Date	21.11.2022
PS Number	PS906797B

**BW Beveridge Williams**  
 Development and Infrastructure Consultants

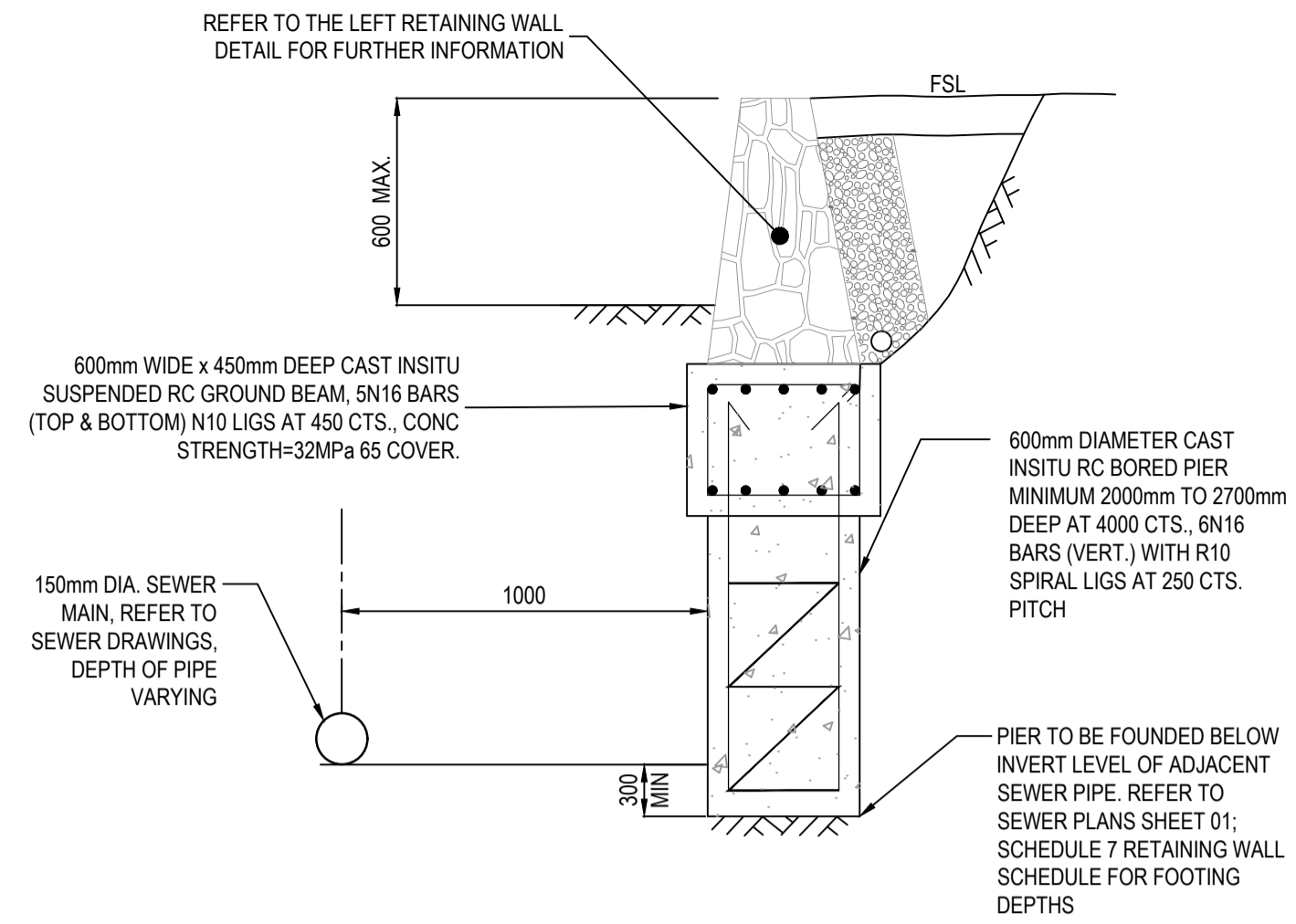
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Project Details	MERIDIAN CENTRAL ESTATE STAGE 41 CITY OF CASEY
Drawing Title	TYPICAL ROAD CROSS SECTIONS

Sheet	02 of 23
Scale	AS SHOWN
Project Ref	1801767
Stage No	41
Drawing No	002
Rev	A



**MASS ROCK RETAINING WALL DETAIL (TYPE RR)**  
NTS

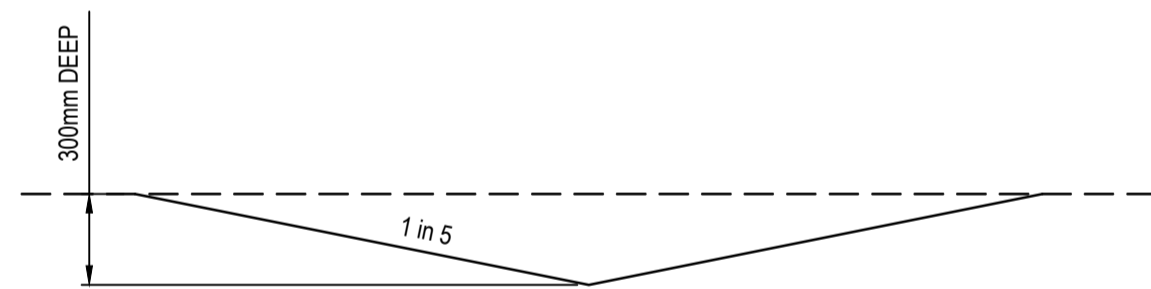


**MASS ROCK RETAINING WALL FOOTING DETAIL PARALLEL WITH SEWER MAIN (MAX. 600mm HEIGHT)**  
NTS

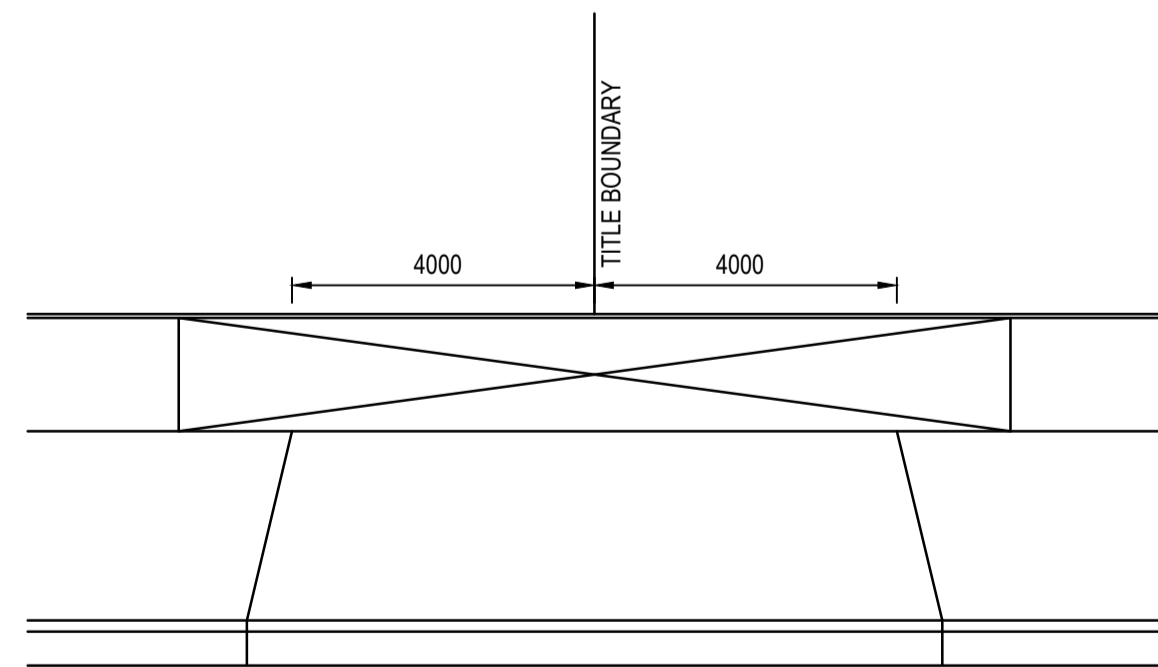
**MASS ROCK RETAINING WALL SCHEDULE**

MAX WALL HEIGHT-H(mm)	FOUNDING DEPTH-D(mm)	BASE WIDTH - B(mm)	FRONT FACE SETBACK-S (mm)	CREST WIDTH-C(mm)
400	400	450	15	300
500	400	500	15	300
600	400	500	30	300
800	400	600	30	300
1000	400	700	30	300

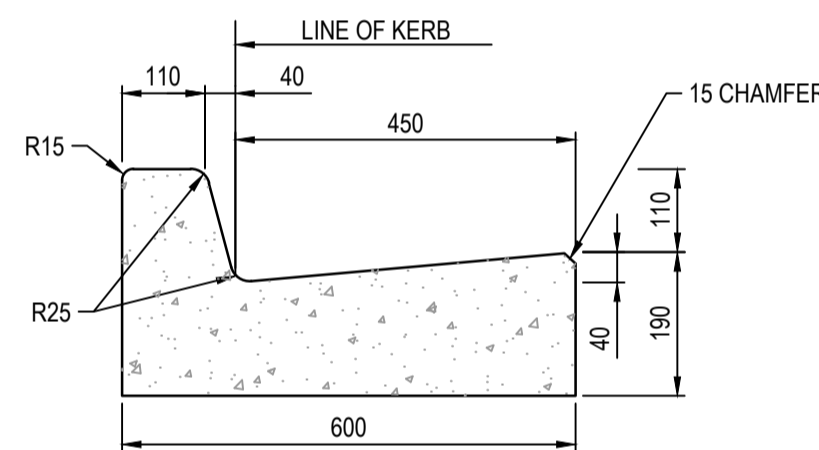
- RETAINING WALL NOTE R.1  
a. WHERE FOOTPATH ABUTS RETAINING WALL CONTINUE CONCRETE UP TO BASE OF RETAINING WALL.
- FOOTING NOTE F.2  
a. TOE OF WALL SHALL PENETRATE THROUGH ANY FILL MATERIAL & THE NATURAL SILT SOILS TO BE FOUNDED AT LEAST 100mm INTO THIS UNDERLYING NATURAL STILL CLAY OR WEATHERED ROCK.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



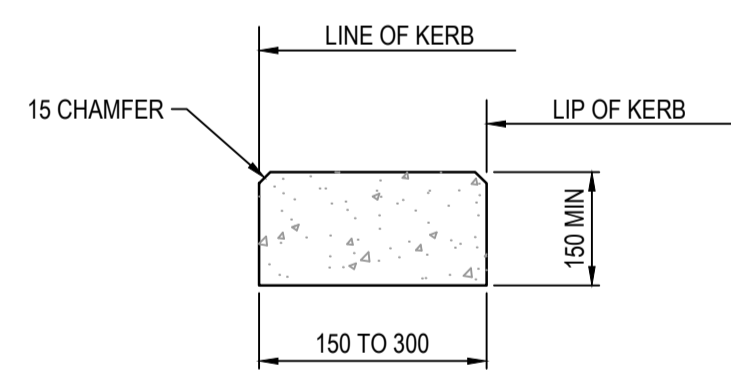
**CUT OFF DRAIN TYPICAL SECTION**  
NOT TO SCALE



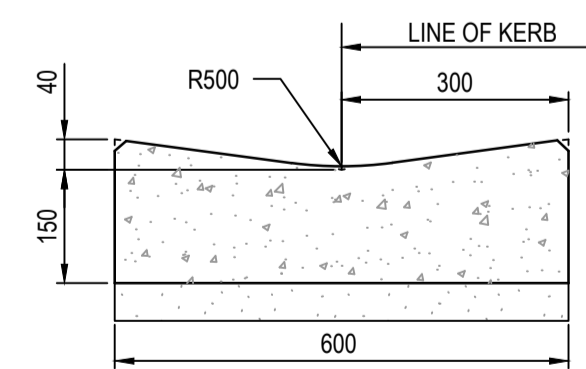
**8.0m DOUBLE VEHICLE CROSSING DETAIL**  
NOT TO SCALE



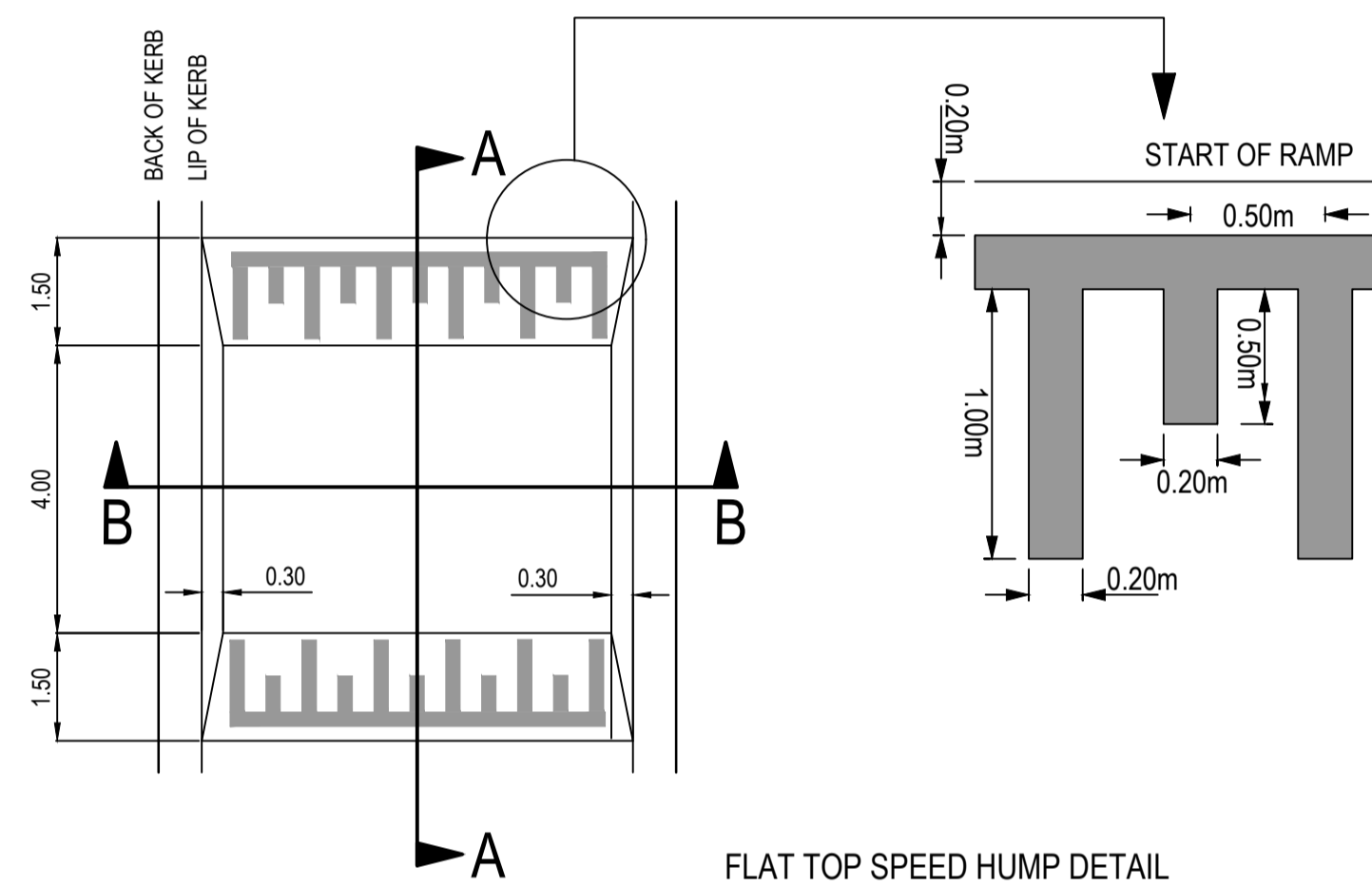
**600 WIDE BARRIER KERB (600 B2) DETAIL**  
SCALE 1:10



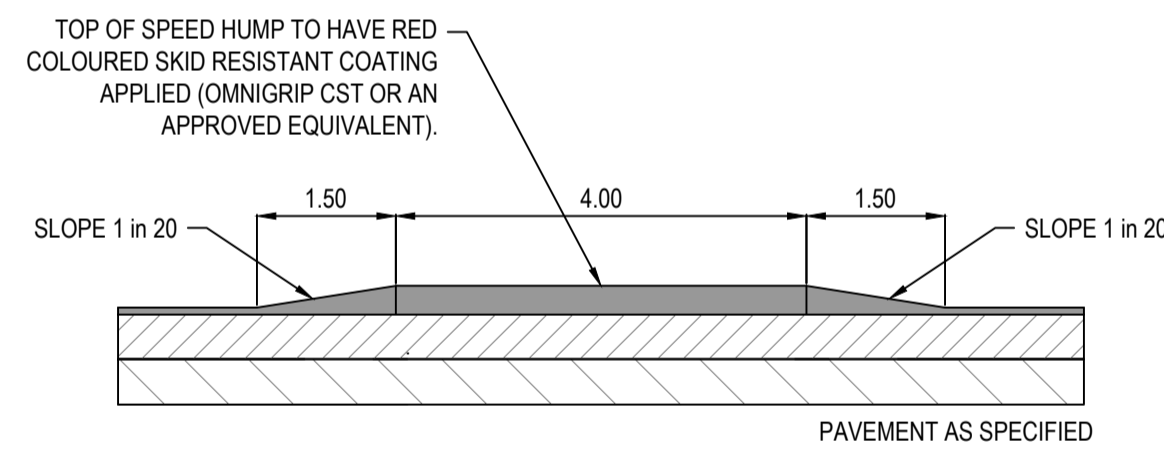
**EDGE STRIP DETAIL**  
SCALE 1:10



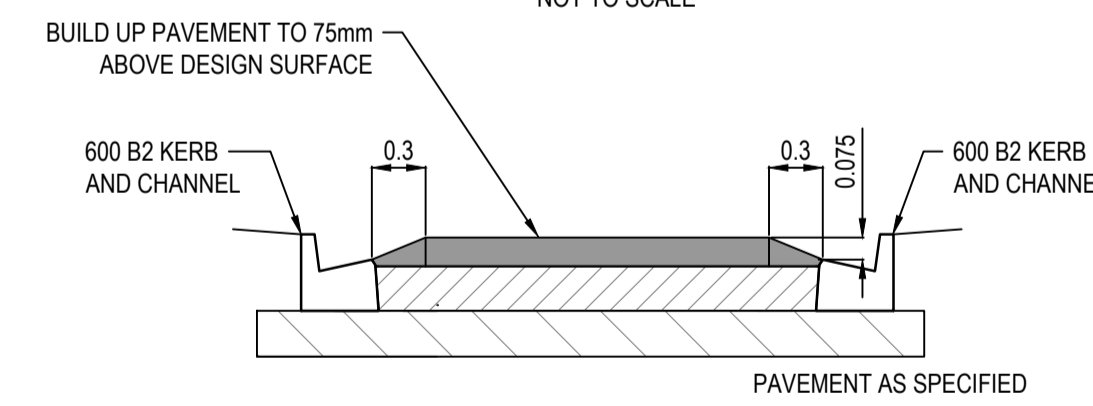
**600 WIDE INVERT CHANNEL (600 INV) DETAIL**  
SCALE 1:10



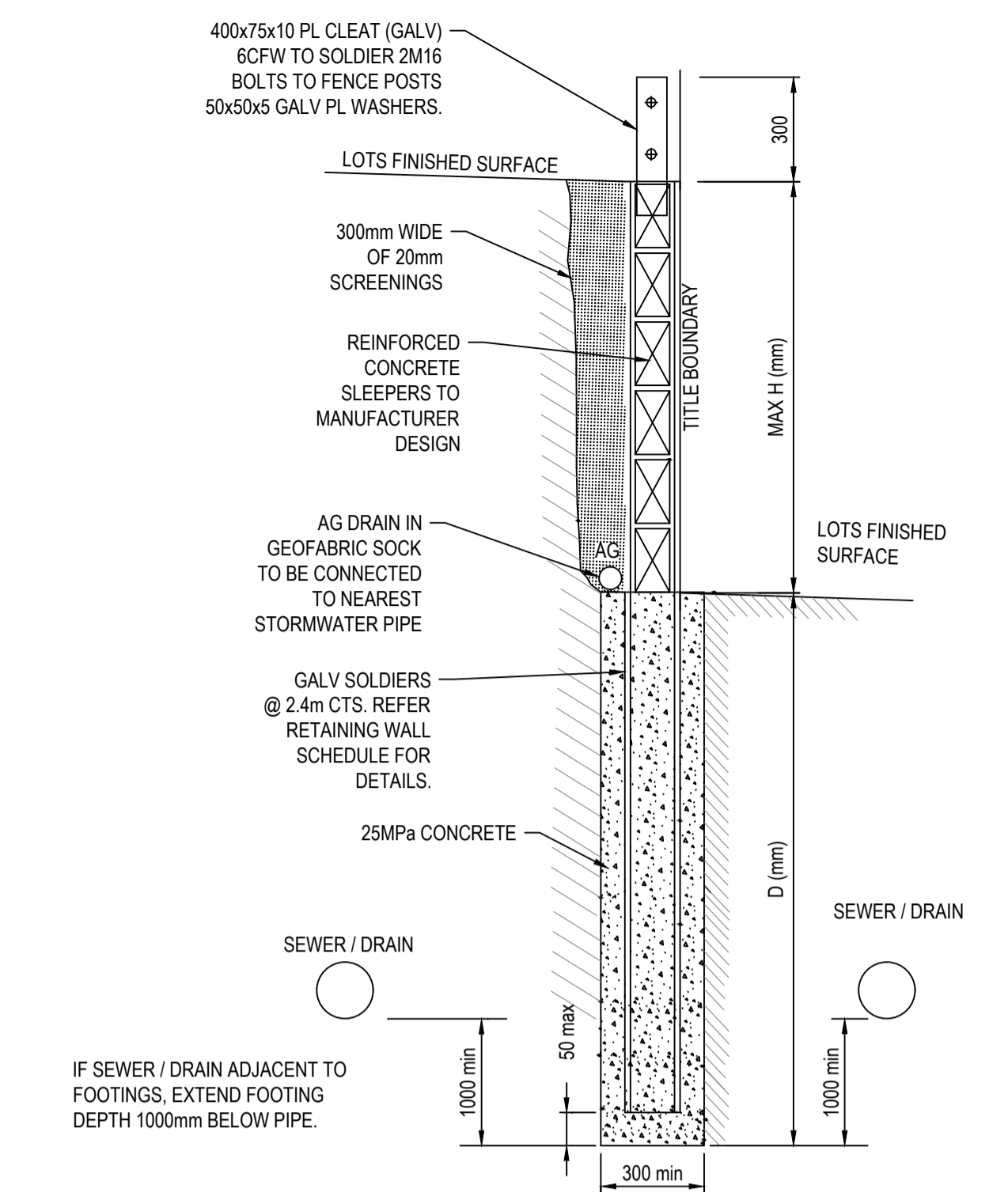
**FLAT TOP SPEED HUMP DETAIL**  
NOT TO SCALE



**SECTION A-A**  
NOT TO SCALE



**SECTION B-B**  
NOT TO SCALE

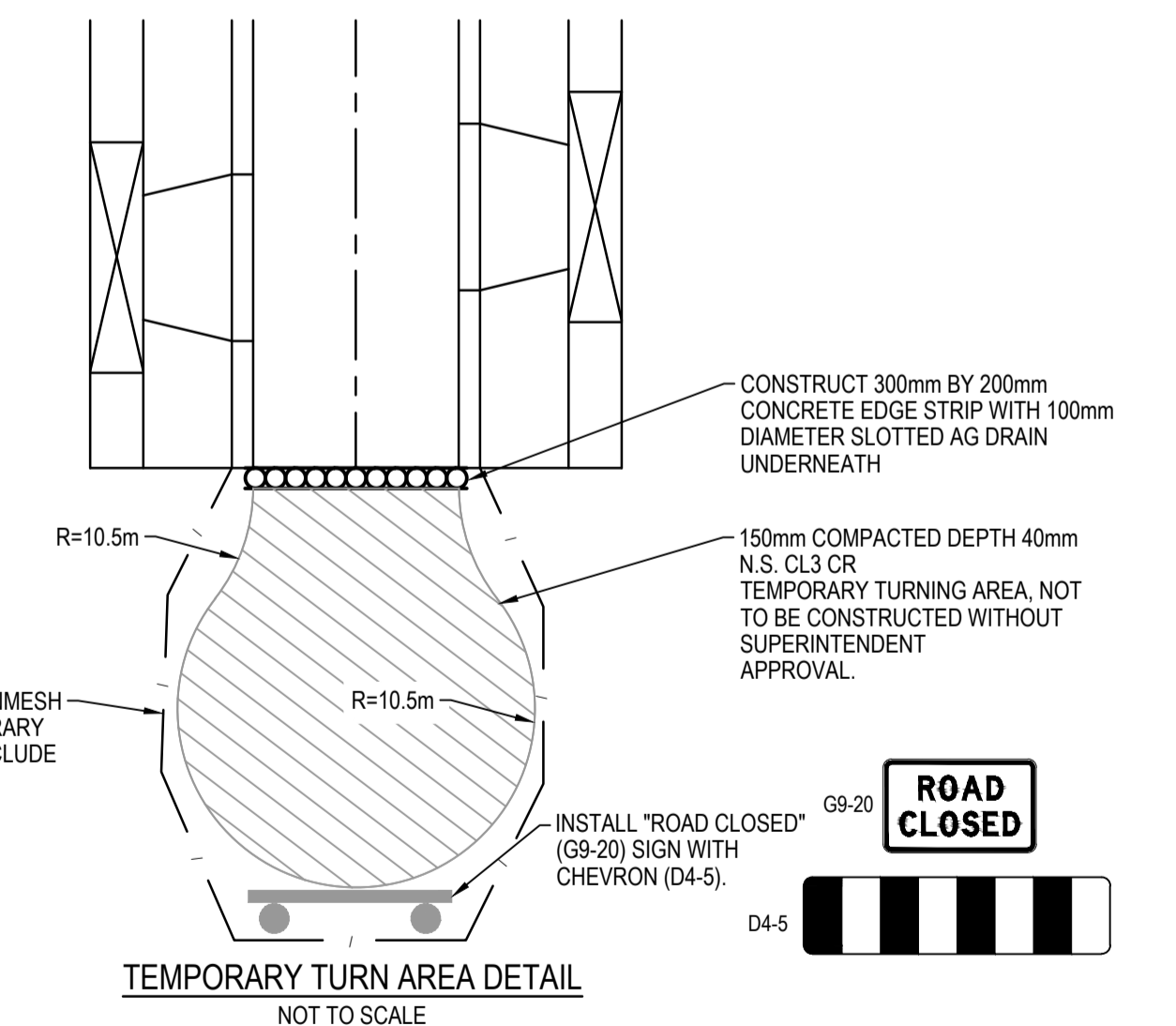


**CONCRETE SLEEPER RETAINING WALL DETAILS**  
NTS

**CONCRETE SLEEPER RETAINING WALL SCHEDULE**

HEIGHT - H(mm)	DEPTH - D(mm)	SOLDIERS SIZE @ 2.4m CTS
600	900	100 UC 14.8
800	1200	100 UC 14.8
1000	1500	100 UC 14.8

Dmin TO BE GREATER OF THAT SHOWN ABOVE OR 1000mm BELOW ADJACENT SEWER / DRAINAGE



**TEMPORARY TURN AREA DETAIL**  
NOT TO SCALE

**ISSUED FOR CONSTRUCTION**

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REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
B	SPEED HUMP DETAIL ADDED	11.04.23	MF	MF					
A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					



Designed C.DAWSON  
Date 28.10.2022  
Drawn L.SUTHERLAND  
Checked M.FELICIANO  
Date 21.11.2022  
Approved M.FELICIANO  
Reg. No. PE0005645  
Date 21.11.2022  
PS Number PS906797B

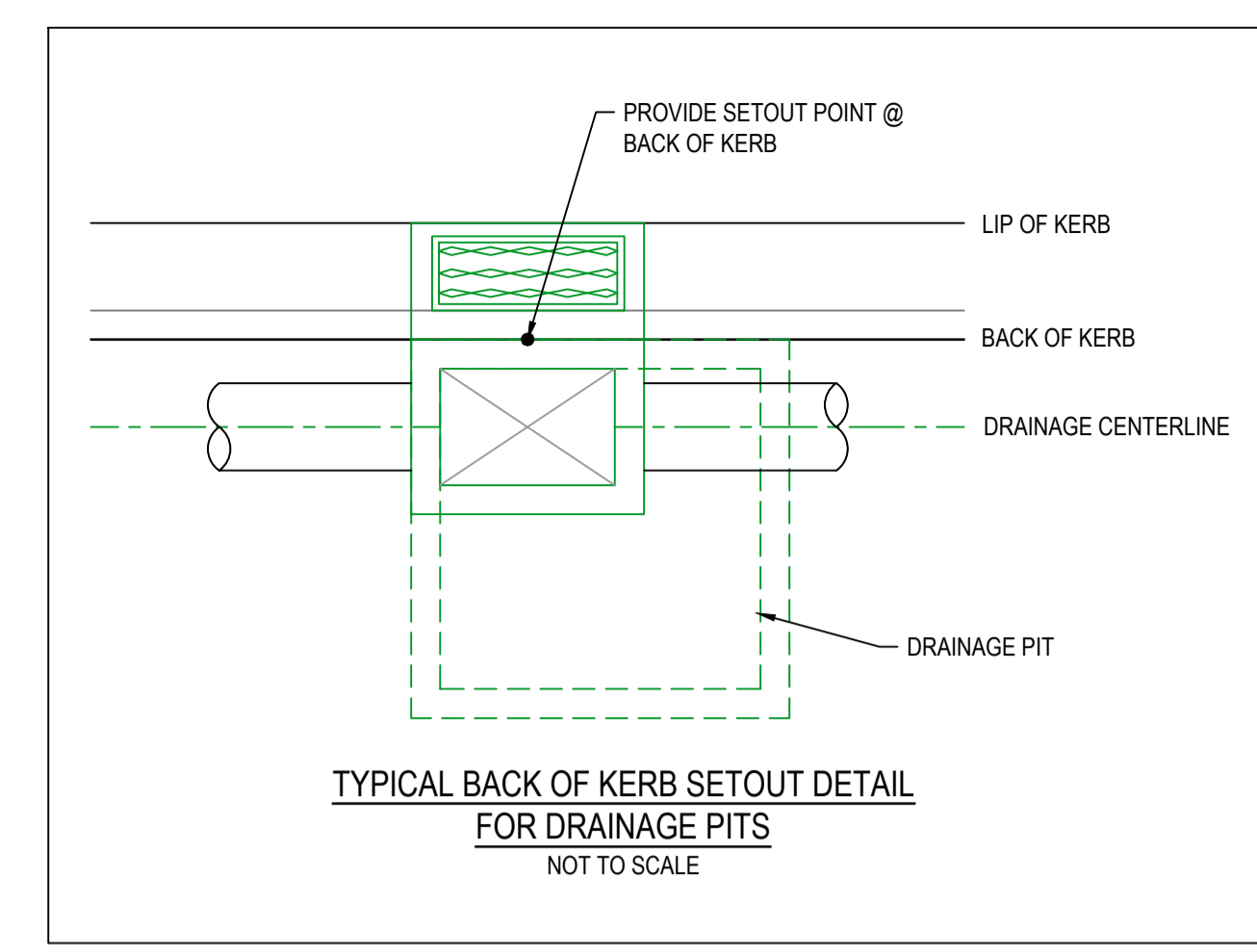
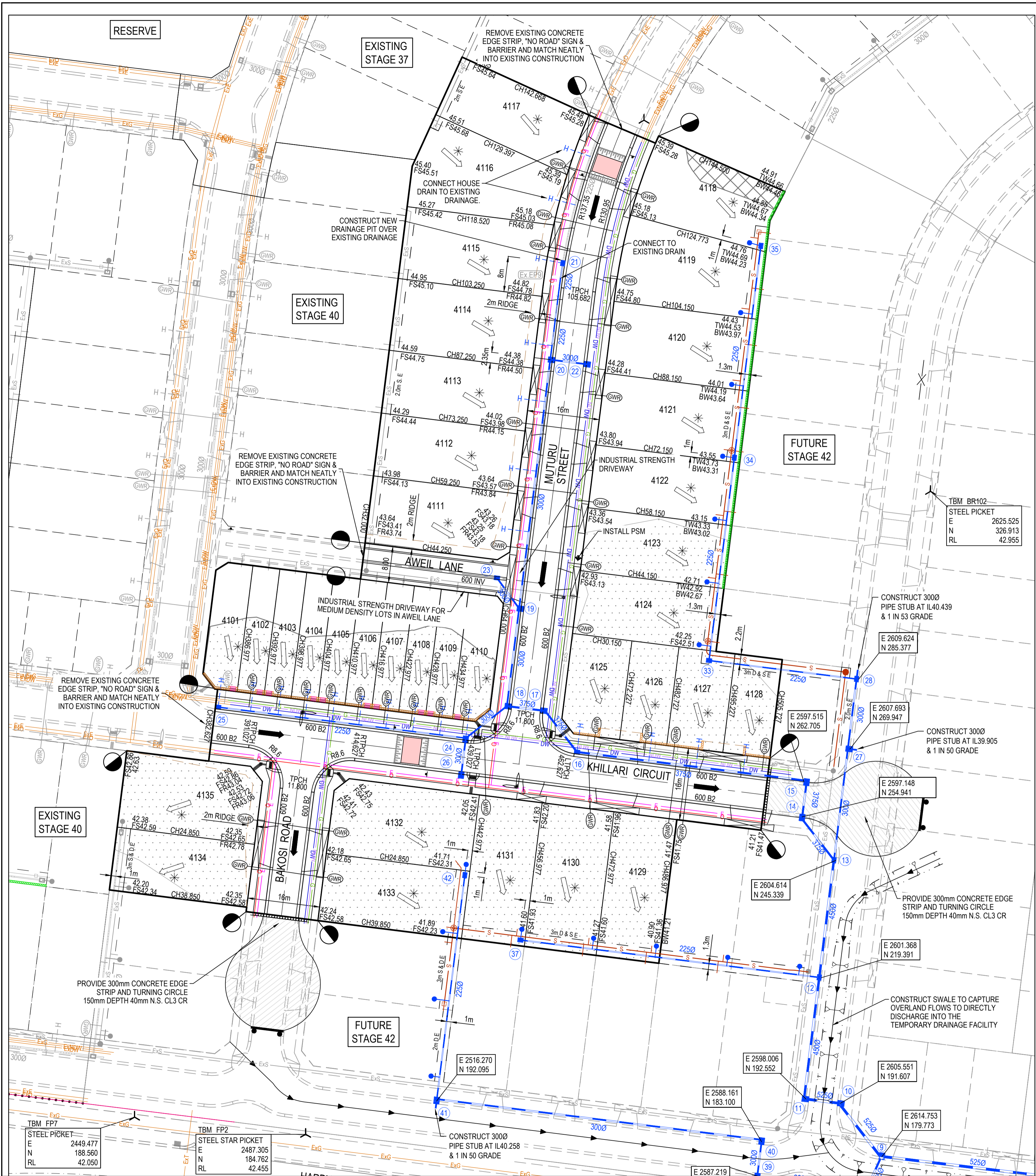


Project Details  
MERIDIAN CENTRAL ESTATE  
STAGE 41  
CITY OF CASEY  
Drawing Title  
PAVEMENT MAKEUP & GENERAL DETAILS

Sheet 03 of 23

Scale  
AS SHOWN

Project Ref 1801767  
Stage No 41  
Drawing No 003  
Rev B



**City of Casey**

Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date : 19/04/2023  
 Council Drawing No.: R5956

**Approval subject to:**  
 - A free draining out being available prior to Statement of Compliance.  
 - Drainage in future Stages 42, 43 & 45 may be amended  
 - A TMP approved prior to commencement of works.  
 - An EMP approved prior to commencement of works.  
 - Relevant service authorities notification and approval

Signed: *[Signature]*

**LEGEND - LAYOUT PLAN**

- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- RECYCLED WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LINE LEVEL
- FINISHED RIDGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- RIDGE LINE
- MASS ROCK RETAINING WALL
- CONCRETE SLEEPER RETAINING WALL
- CONCRETE SLEEPER RETAINING WALL AS PER STRUCTURAL PLAN V22043-ST-0005
- ZERO LOT LINES
- PAVEMENT TREATMENT
- STRUCTURAL FILL 200mm DEEP
- PROPOSED CUT > 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)

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)
KHILLARI CIRCUIT	N	2.10	N	2.50	N	2.95	S	2.50	S	1.85	N	Ex1.0
MUTURU STREET	E	2.10	E	2.50	E	2.95	W	2.30	W	1.80	E	Ex1.0
BAKOSI ROAD	E	2.10	E	2.50	E	2.95	W	2.50	W	1.85	-	-
AWEIL LANE	-	-	-	-	-	-	-	-	-	-	S	2.00

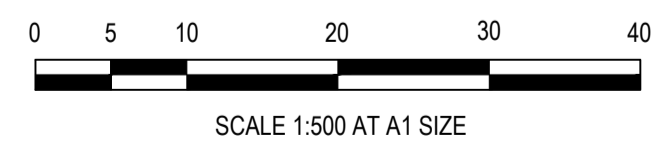
NOTE: STREET TREES ARE TO BE PLANTED IN THE CENTRE OF ALL NATURE STRIPS

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
KHILLARI CIRCUIT	16.00	6.40	7.30	7.60	600 B2	600 B2	4.50	4.20
MUTURU STREET	16.00	6.40	7.30	7.60	600 B2	600 B2	4.20	4.50
BAKOSI ROAD	16.00	6.40	7.30	7.60	600 B2	600 B2	4.20	4.50
AWEIL LANE	8.00	5.60	-	6.20	300 ES	300 ES	0.90	0.90

NOTE:

- THE AMOUNT OF STEPS SHOWN LEADING INTO THE ENTRY DOOR FOR LOTS 4101 - 4110 ARE INDICATIVE ONLY AND SHOWN TO THE PORCH. STEPS TO BE DETERMINED BY CONTRACTOR ON-SITE TO THE FINISHED FLOOR LEVEL OF THE HOUSES
- STEPS TO BE IN ACCORDANCE TO THE AS1657-2013 "FIXED PLATFORMS, WALKWAYS, STAIRWAYS AND LADDERS"



**WARNING**  
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**DIAL 1100 BEFORE YOU DIG**  
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**ISSUED FOR CONSTRUCTION**

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
B	COUNCIL COMMENTS	11.04.23	MF	MF					
A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					

**BROWN**  
PROPERTY GROUP

**MERIDIAN**  
CENTRAL

**Beveridge Williams**  
Development and Infrastructure Consultants

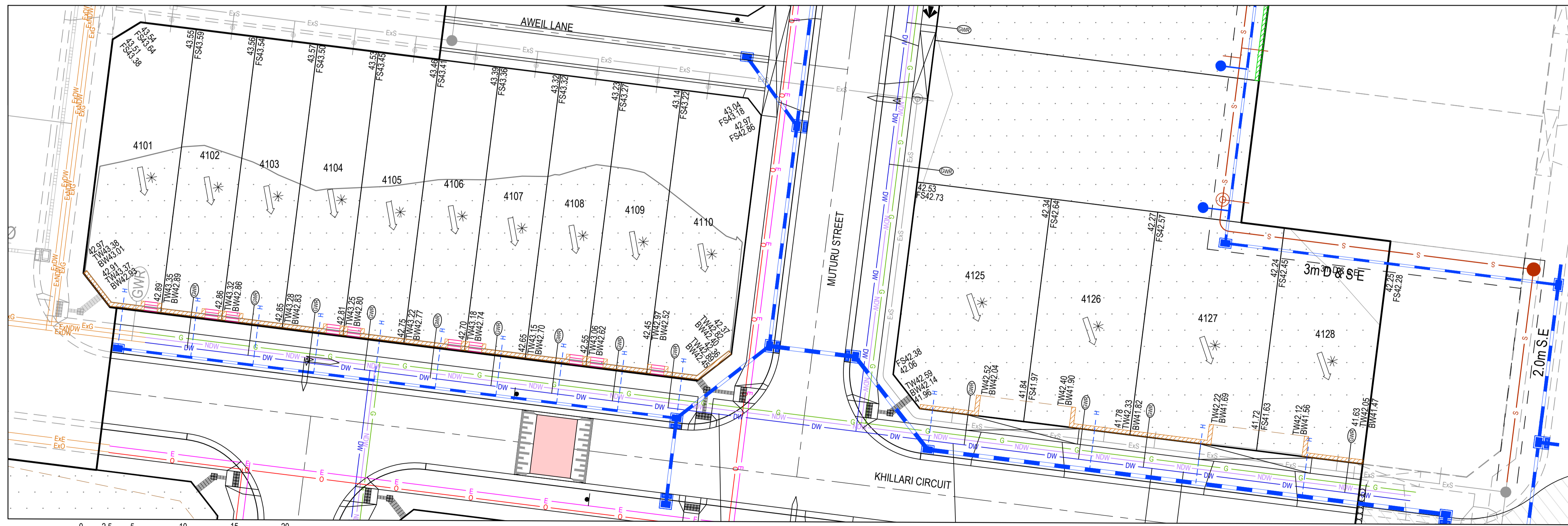
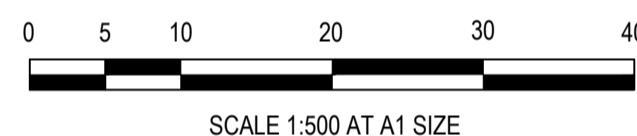
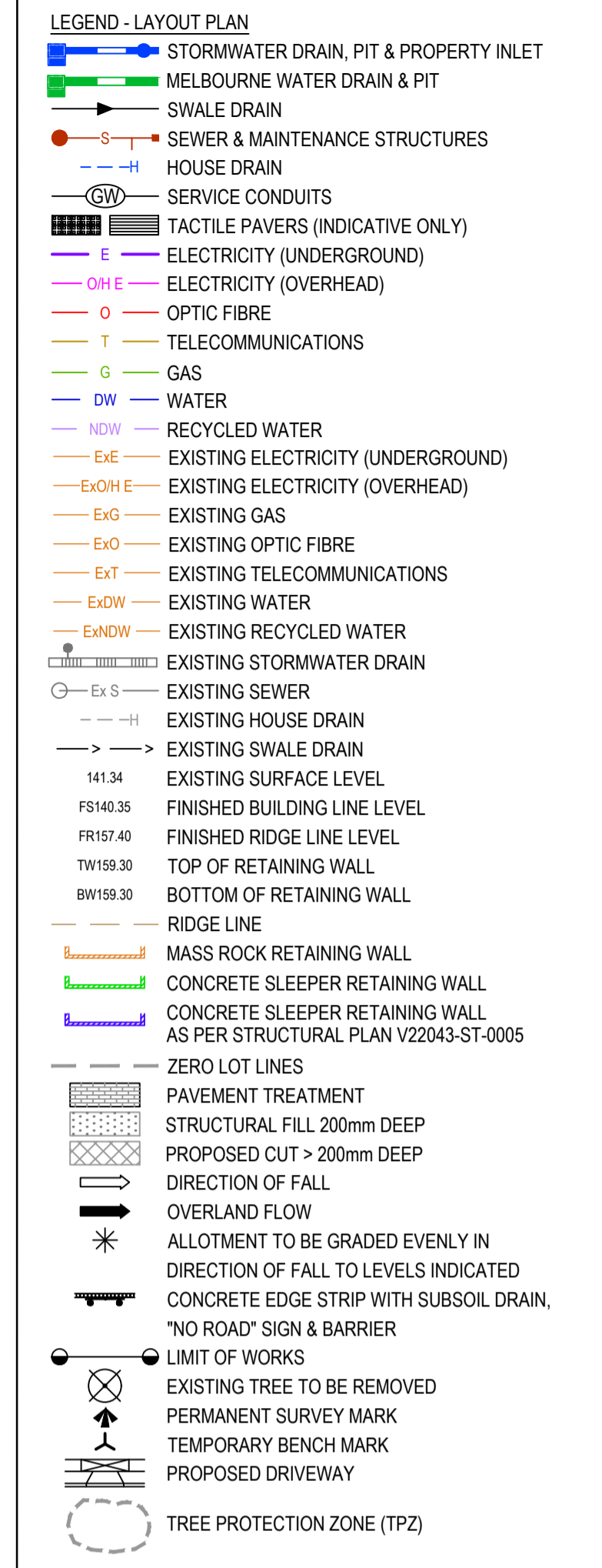
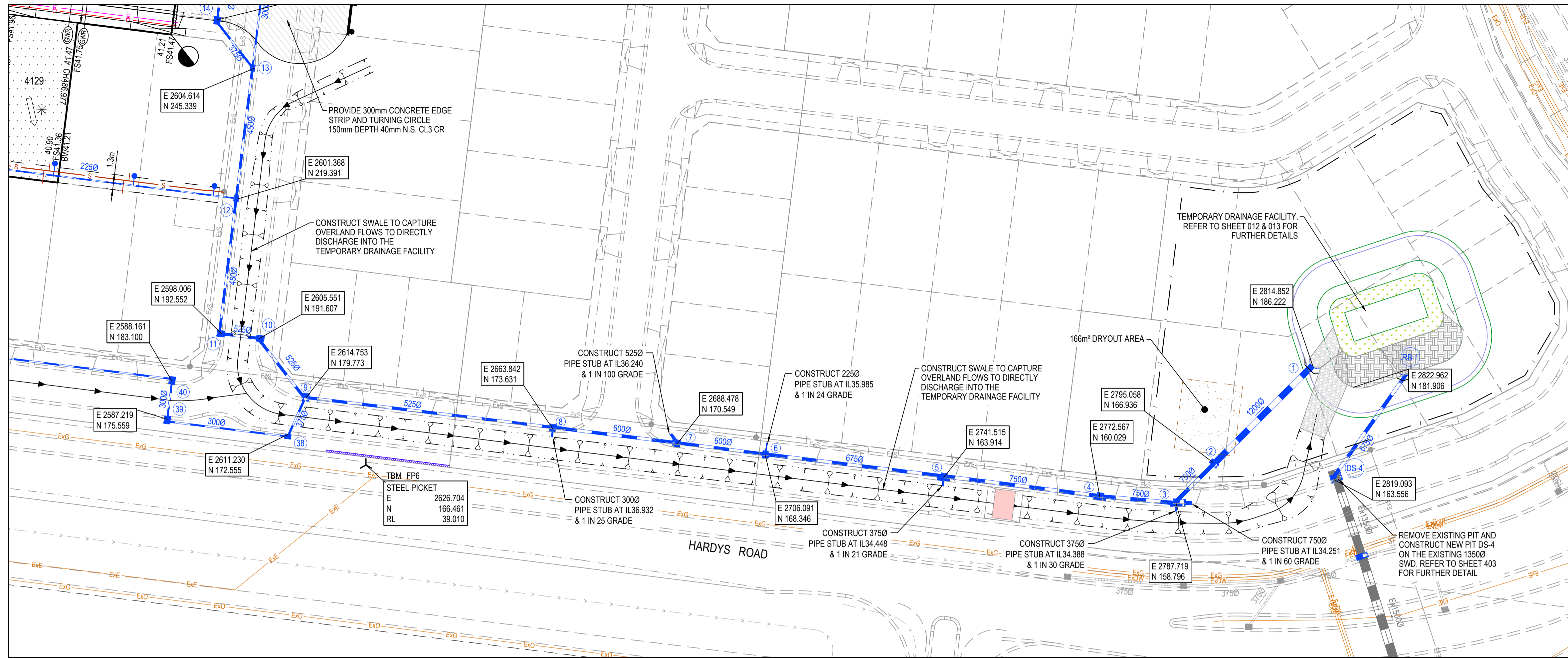
1 Glenferrie Road  
Malvern VIC 3144  
ph: 03 9524 8888  
www.beveridgewilliams.com.au

Designed	C.DAWSON
Date	28.10.2022
Drawn	L.SUTHERLAND
Checked	M.FELICIANO
Date	21.11.2022
Approved	M.FELICIANO
Reg. No.	PE000545
Date	21.11.2022
PS Number	PS906797B

Project Name	MERIDIAN CENTRAL ESTATE
Stage	STAGE 41
City	CITY OF CASEY
Drawing Title	LAYOUT PLAN (SHEET 1 OF 2)

Sheet	04 of 23
Scale	1:500 @ A1
Project Ref	1801767
Stage No	41
Drawing No	010
Rev	B

FOR CONTINUATION SEE SHEET 1801767-41-010



**NOTE:**

- THE AMOUNT OF STEPS SHOWN LEADING INTO THE ENTRY DOOR FOR LOTS 4101 - 4110 ARE INDICATIVE ONLY AND SHOWN TO THE PORCH. STEPS TO BE DETERMINED BY CONTRACTOR ON-SITE TO THE FINISHED FLOOR LEVEL OF THE HOUSES
- STEPS TO BE IN ACCORDANCE TO THE AS1657-2013 "FIXED PLATFORMS, WALKWAYS, STAIRWAYS AND LADDERS"

**City of Casey**

Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date : 19/04/2023  
 Council Drawing No.: R5956

**Approval subject to:**

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- Relevant service authorities notification and approval

Signed:

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**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
B	COUNCIL COMMENTS	11.04.23	MF	MF					
A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					



Designed: C.DAWSON  
 Date: 28.10.2022  
 Drawn: L.SUTHERLAND  
 Checked: M.FELICIANO  
 Date: 21.11.2022  
 Approved: M.FELICIANO  
 Reg. No.: PE0005645  
 Date: 21.11.2022  
 PS Number: PS906797B

**BW Beveridge Williams**  
 Development and Infrastructure Consultants

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

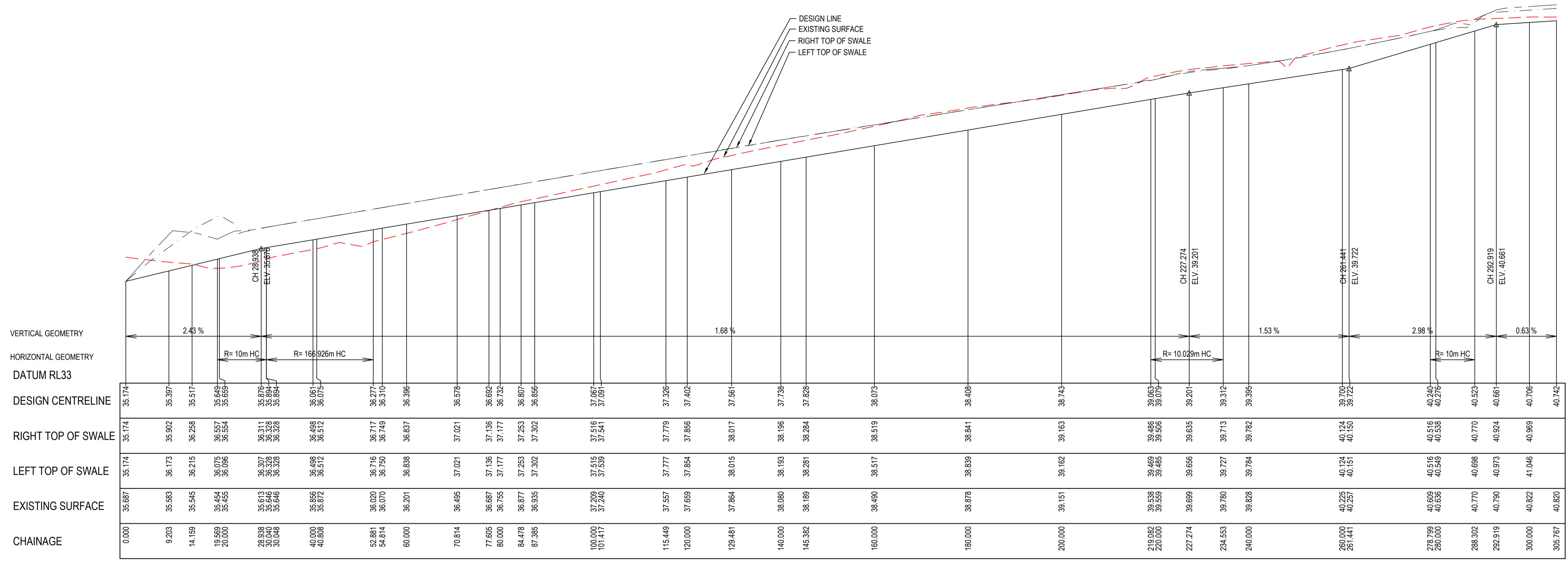
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 STAGE 41  
 CITY OF CASEY

Drawing Title: LAYOUT PLAN  
 (SHEET 2 OF 2)

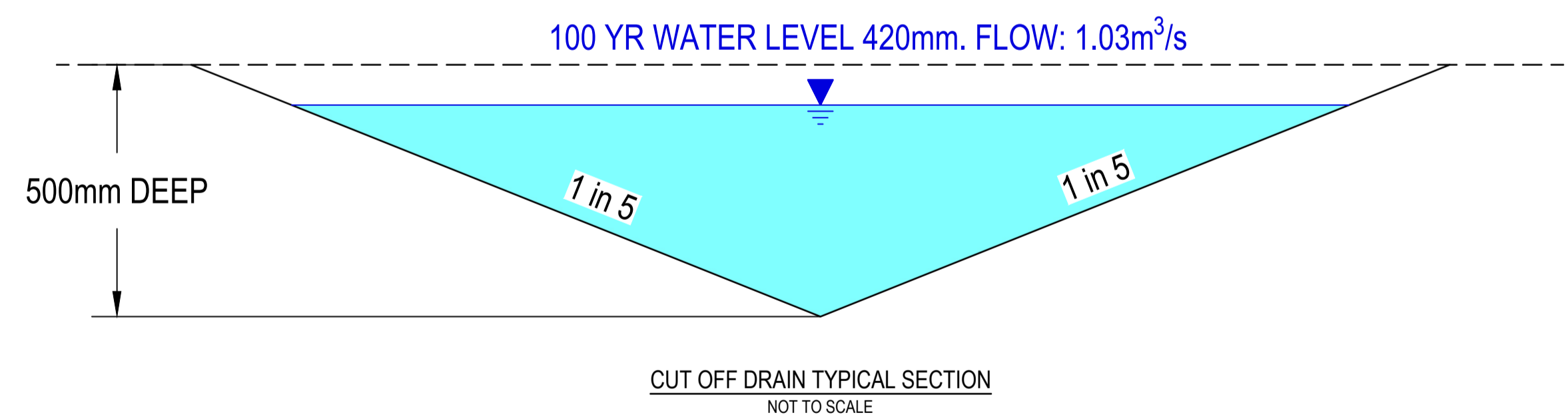
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Project Ref: 1801767  
 Stage No: 41  
 Drawing No: 011  
 Rev: B

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SWALE LONGITUDINAL SECTION  
NOT TO SCALE



**City of Casey**

Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date : 19/04/2023  
 Council Drawing No.: R5956

**Approval subject to:**

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A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					



Designed: C.DAWSON  
 Date: 28.10.2022  
 Drawn: L.SUTHERLAND  
 Checked: M.FELICIANO  
 Date: 21.11.2022  
 Approved: M.FELICIANO  
 Reg. No.: PE0005645  
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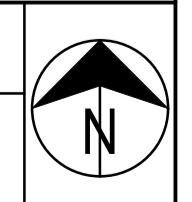
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 MERIDIAN CENTRAL ESTATE  
 STAGE 41  
 CITY OF CASEY

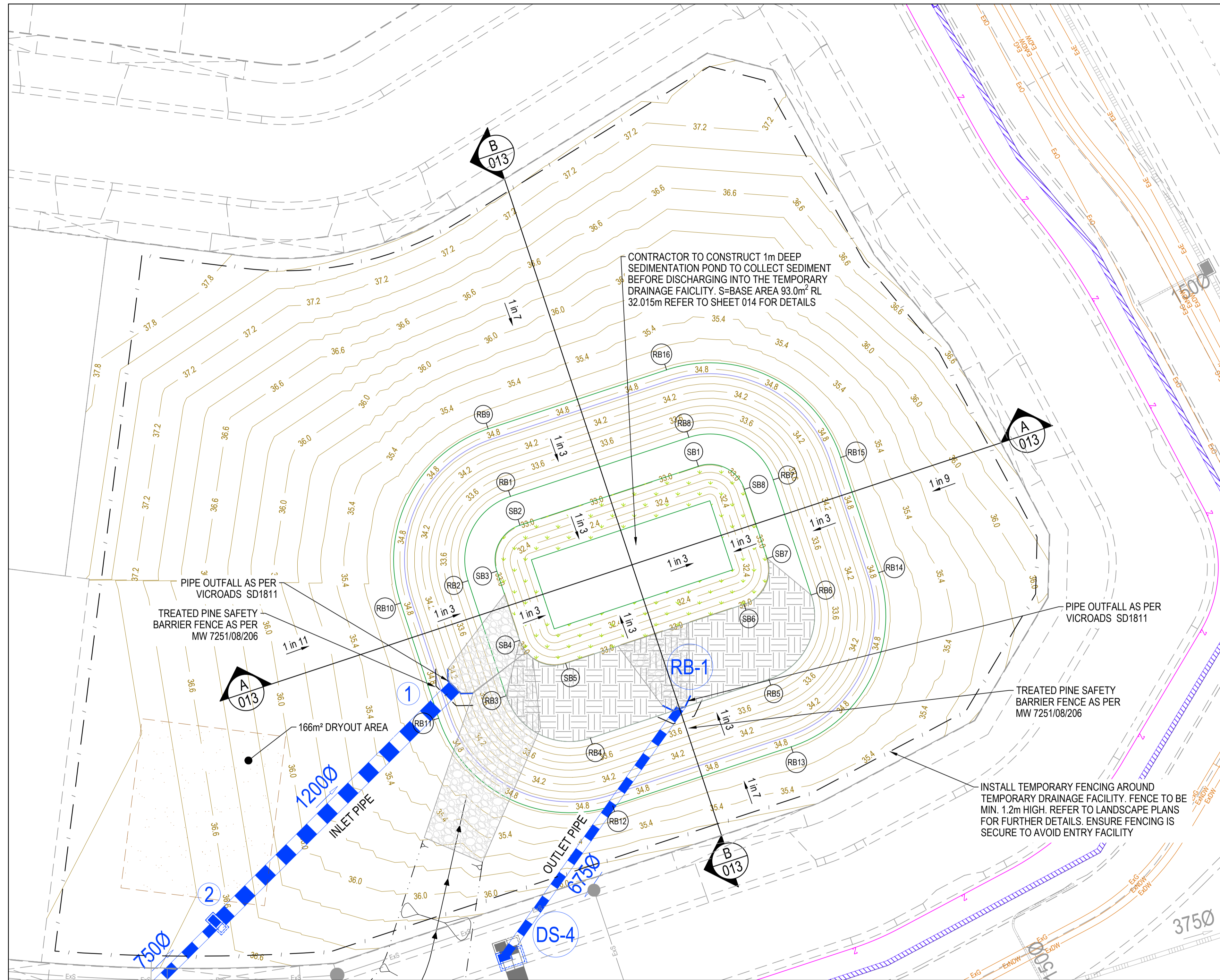
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 SWALE DRAIN  
 LONGITUDINAL SECTION  
 & TYPICAL CROSS SECTION

Sheet 06 of 23

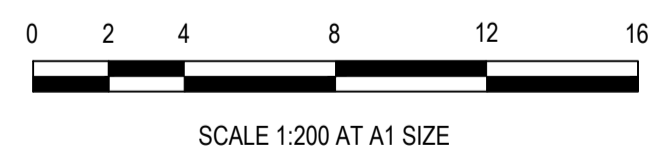
Scale  
 AS SHOWN

Project Ref	Stage No	Drawing No	Rev
1801767	41	012	A





TEMPORARY BASIN - INSERT FROM SHEET 011



**RETARDING BASIN SETOUT**

Point no	Easting	Northing	RL
RB1	2819.467	201.949	33.015
RB2	2815.972	195.000	33.015
RB3	2819.112	185.506	33.015
RB4	2826.060	182.011	33.015
RB5	2840.777	186.877	33.015
RB6	2844.272	193.826	33.015
RB7	2841.132	203.320	33.015
RB8	2834.183	206.815	33.015

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
RB1 - RB2	90.000	5.500	8.639	1.611	1.192	2.105	1.784	2.160	33.015
RB3 - RB4	90.000	5.500	8.639	1.611	1.192	2.105	1.784	2.160	33.015
RB5 - RB6	90.000	5.500	8.639	1.611	1.192	2.105	1.784	2.160	33.015
RB7 - RB8	90.000	5.500	8.639	1.611	1.192	2.105	1.784	2.160	33.015

**RETARDING BASIN SETOUT**

Point no	Easting	Northing	RL
RB9	2817.625	207.517	34.970
RB10	2810.404	193.159	34.970
RB11	2813.543	183.664	34.970
RB12	2827.902	176.442	34.970
RB13	2842.618	181.309	34.970
RB14	2849.840	195.668	34.970
RB15	2846.700	205.162	34.970
RB16	2832.342	212.384	34.970

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
RB9 - RB10	90.000	11.365	17.852	3.329	2.464	4.349	3.687	4.463	34.970
RB11 - RB12	90.000	11.365	17.852	3.329	2.464	4.349	3.687	4.463	34.970
RB13 - RB14	90.000	11.365	17.852	3.329	2.464	4.349	3.687	4.463	34.970
RB15 - RB16	90.000	11.365	17.852	3.329	2.464	4.349	3.687	4.463	34.970

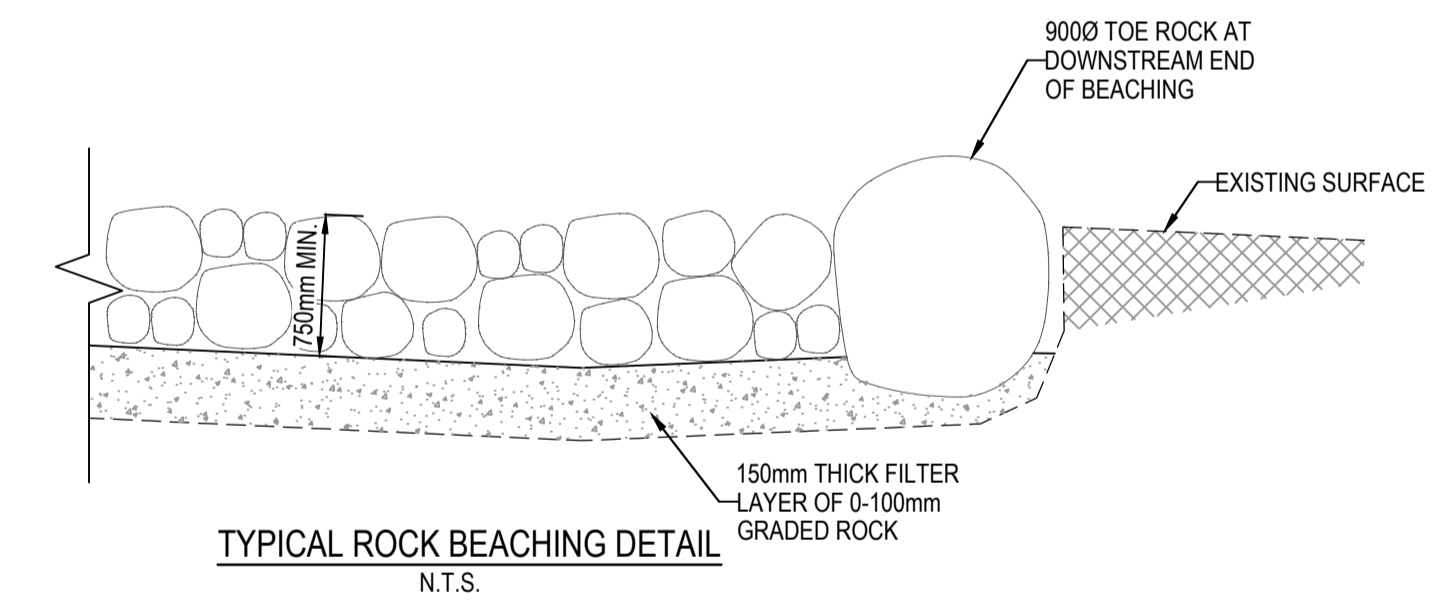
**SEDIMENT BASIN SETOUT**

Point no	Easting	Northing	RL
SB1	2834.968	204.442	33.015
SB2	2820.252	199.575	33.015
SB3	2818.345	195.785	33.015
SB4	2820.229	190.088	33.015
SB5	2824.020	188.182	33.015
SB6	2838.736	193.049	33.015
SB7	2840.642	196.839	33.015
SB8	2838.758	202.535	33.015

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
SB2 - SB3	90.000	3.000	4.712	0.879	0.650	1.148	0.973	1.178	33.015
SB4 - SB5	90.000	3.000	4.712	0.879	0.650	1.148	0.973	1.178	33.015
SB6 - SB7	90.000	3.000	4.712	0.879	0.650	1.148	0.973	1.178	33.015
SB8 - SB1	90.000	3.000	4.712	0.879	0.650	1.148	0.973	1.178	33.015

**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)
- E ELECTRICITY (UNDERGROUND)
- OH E ELECTRICITY (OVERHEAD)
- O OPTIC FIBRE
- T TELECOMMUNICATIONS
- G GAS
- DW WATER
- NDW RECYCLED WATER
- ExE EXISTING ELECTRICITY (UNDERGROUND)
- ExOH E EXISTING ELECTRICITY (OVERHEAD)
- ExO EXISTING GAS
- ExO EXISTING OPTIC FIBRE
- ExT EXISTING TELECOMMUNICATIONS
- ExDW EXISTING WATER
- ExNDW EXISTING RECYCLED WATER
- EXISTING STORMWATER DRAIN
- EXISTING MELBOURNE WATER DRAIN
- Ex S EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- 141.34 EXISTING SURFACE LEVEL
- FR140.35 FINISHED BUILDING LINE LEVEL
- FR157.40 FINISHED RIDGE LINE LEVEL
- TW159.30 TOP OF RETAINING WALL
- BW159.30 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)



**NOTES**

- ROCK SURFACE TO FINISH FLUSH WITH SURROUNDING EXISTING SURFACE.
- ALL ROCKS TO BE GRANITIC & ANGULAR IN SHAPE.
- ROCKS TO BE PLACED WITH LARGER KEYSTONES INTERLOCKED AND EMBEDDED INTO FILTER LAYER AND VOIDS GRADUALLY FILLED WITH SMALLER SIZED ROCKS.

**ROCK GRADING**

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

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
B	COUNCIL COMMENTS	11.04.23	MF	MF					
A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					



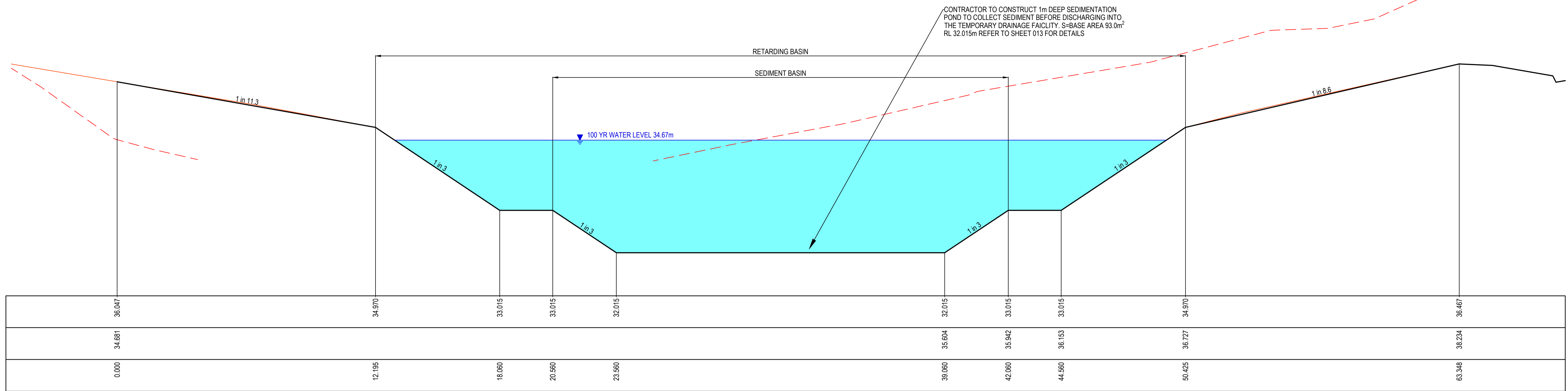
Designed: C.DAWSON  
 Date: 28.10.2022  
 Drawn: L.SUTHERLAND  
 Checked: M.FELICIANO  
 Date: 21.11.2022  
 Approved: M.FELICIANO  
 Reg. No.: PE0005645  
 Date: 21.11.2022  
 PS Number: PS906797B



Project Details: MERIDIAN CENTRAL ESTATE  
 STAGE 41  
 CITY OF CASEY  
 Drawing Title: TEMPORARY RETARDING BASIN (SHEET 2 OF 2)

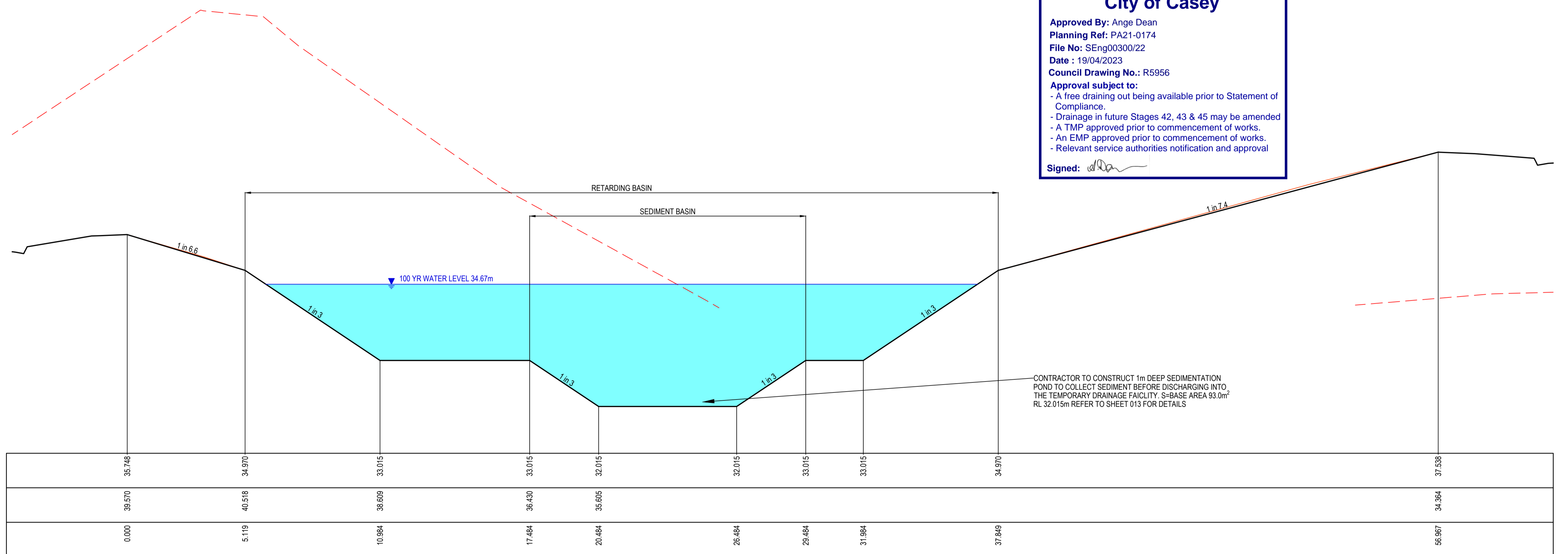
Sheet	07 of 23
Scale	
Project Ref	1801767
Stage No	41
Drawing No	013
Rev	B

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DATUM31.0													
DESIGN SURFACE	36.047	34.970	33.015	33.015	32.015	32.015	33.015	33.015	33.015	34.970			36.467
EXISTING SURFACE	34.681								35.604	35.942	36.153	36.727	38.234
OFFSET	0.000	12.095	18.060	20.560	23.560	39.060	42.060	44.560	50.425				63.348

**City of Casey**  
 Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date : 19/04/2023  
 Council Drawing No.: R5956  
 Approval subject to:  
 - A free draining out being available prior to Statement of Compliance.  
 - Drainage in future Stages 42, 43 & 45 may be amended  
 - A TMP approved prior to commencement of works.  
 - An EMP approved prior to commencement of works.  
 - Relevant service authorities notification and approval  
 Signed: *[Signature]*



DATUM31.0													
DESIGN SURFACE	35.748	34.970	33.015	33.015	32.015	32.015	33.015	33.015	34.970				37.538
EXISTING SURFACE	39.570	40.518	38.609	36.430	35.605								34.364
OFFSET	0.000	5.119	10.964	17.484	20.484	26.484	29.484	31.984	37.849				56.967

**ISSUED FOR CONSTRUCTION**

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A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					

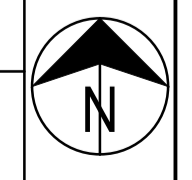


Designed	C.DAWSON
Date	28.10.2022
Drawn	L.SUTHERLAND
Checked	M.FELICIANO
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 1 Glenferrie Road  
 Malvern VIC 3144  
 ph: 03 9524 8888  
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Project Details	MERIDIAN CENTRAL ESTATE STAGE 41 CITY OF CASEY
Drawing Title	TEMPORARY RETARDING BASIN (SHEET 2 OF 2)

Sheet	08 of 23
Scale	1:200 @ A1
Project Ref	1801767
Stage No	41
Drawing No	014
Rev	A





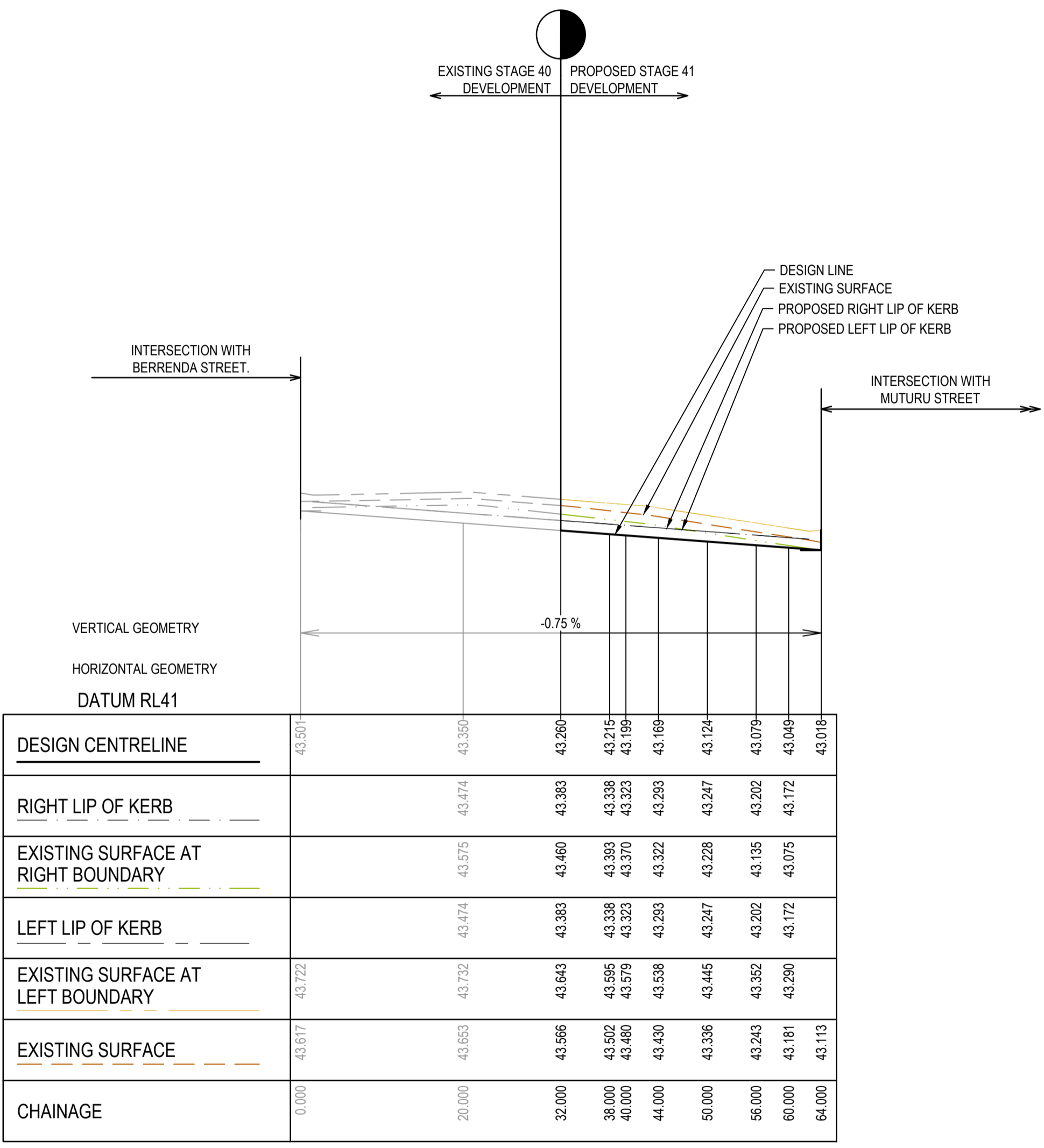
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	FUTURE DESIGN LINE
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	EXISTING SURFACE AT LEFT BOUNDARY
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	LEFT LIP OF KERB

**City of Casey**

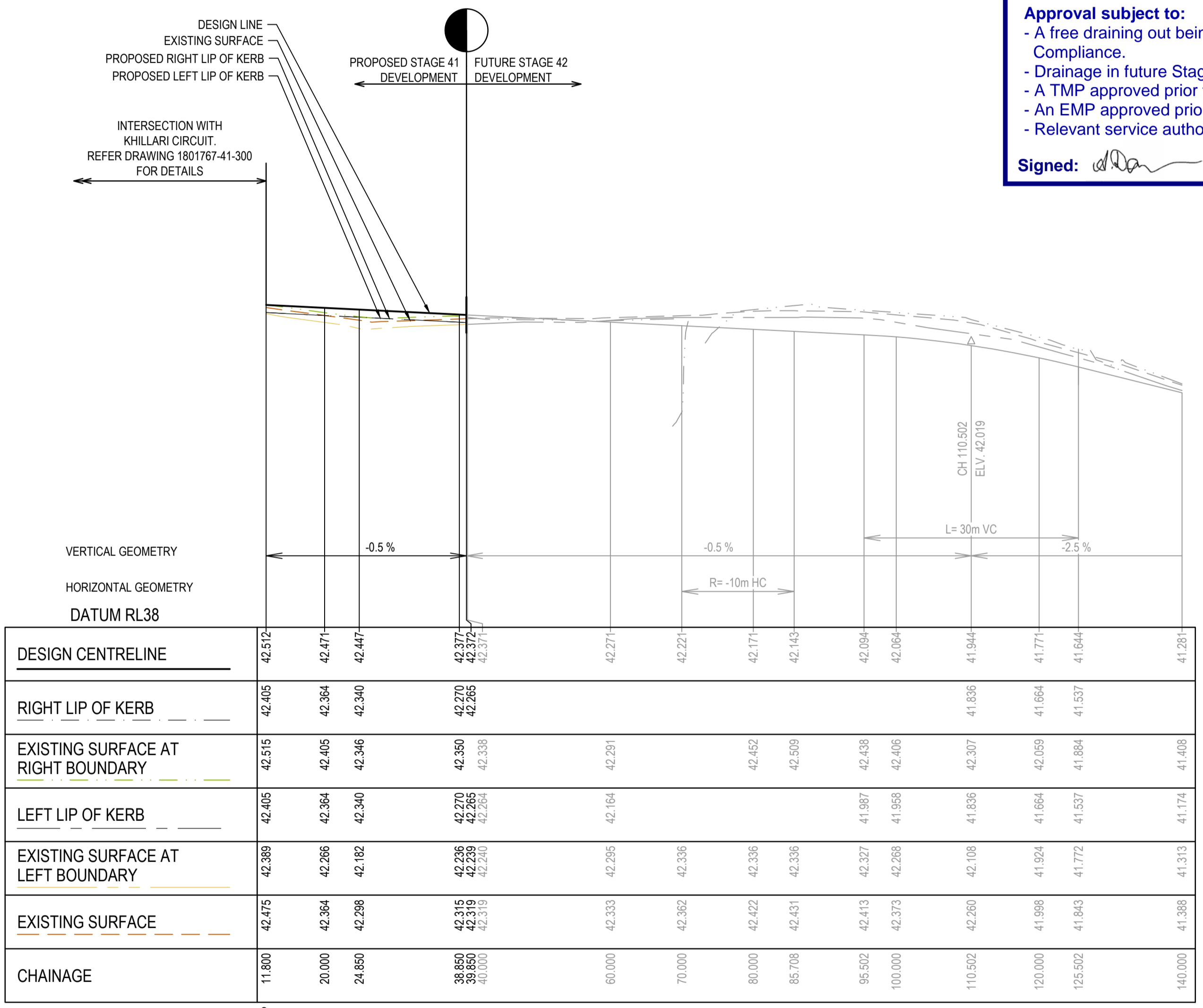
Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date : 19/04/2023  
 Council Drawing No.: R5956

**Approval subject to:**  
 - A free draining out being available prior to Statement of Compliance.  
 - Drainage in future Stages 42, 43 & 45 may be amended.  
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 - Relevant service authorities notification and approval

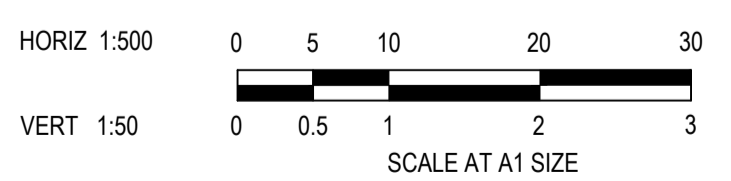
Signed:



AWEIL LANE LONGITUDINAL SECTION



BAKOSI CIRCUIT LONGITUDINAL SECTION



**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					



Designed: C.DAWSON  
 Date: 28.10.2022  
 Drawn: L.SUTHERLAND  
 Checked: M.FELICIANO  
 Date: 21.11.2022  
 Approved: M.FELICIANO  
 Reg. No.: PE0005645  
 Date: 21.11.2022  
 PS Number: PS906797B

**BW Beveridge Williams**  
 Development and Infrastructure Consultants

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

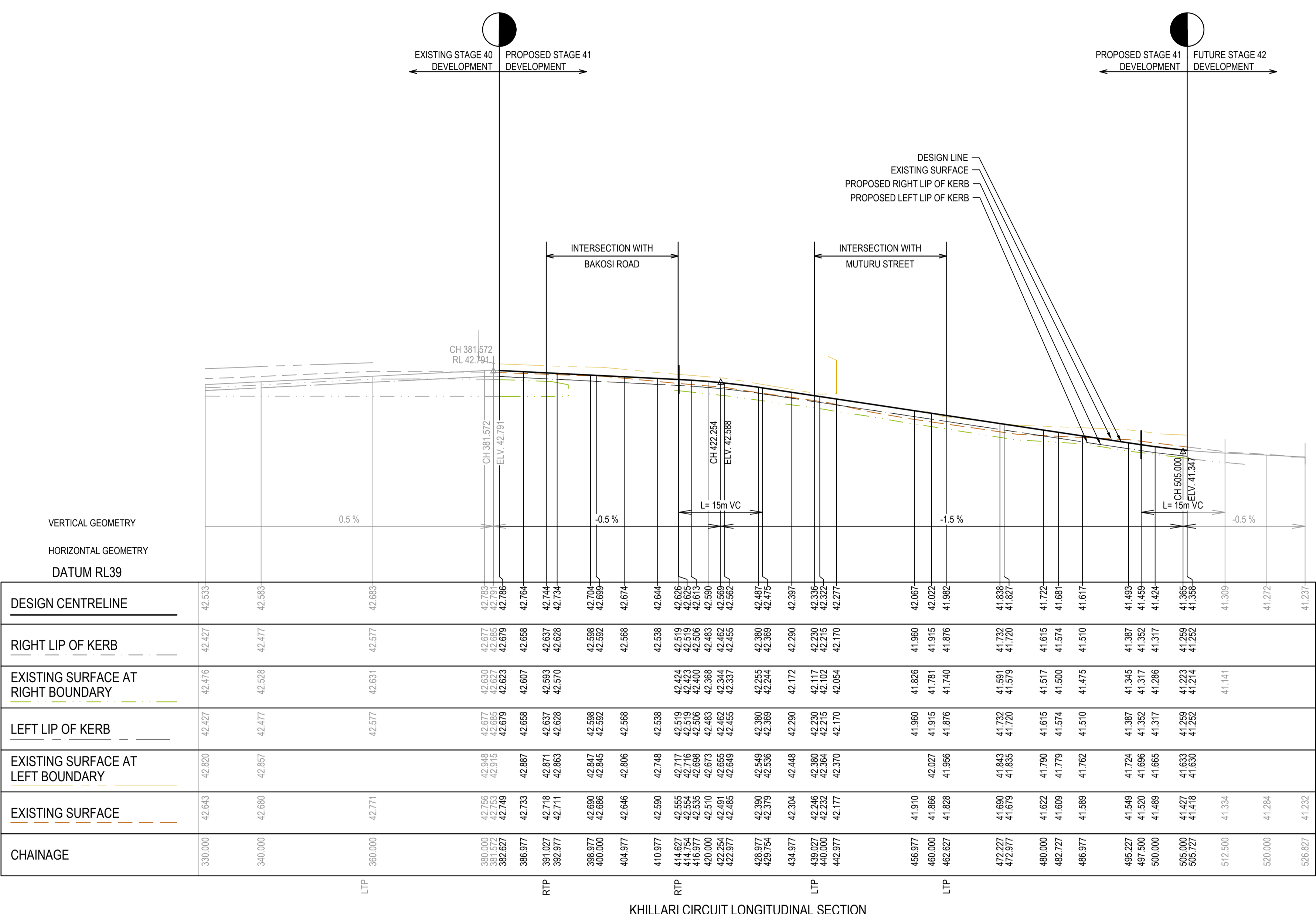
Project Details: MERIDIAN CENTRAL ESTATE  
 STAGE 41  
 CITY OF CASEY

Drawing Title: ROAD LONGITUDINAL SECTIONS  
 AWEIL LANE & BAKOSI CIRCUIT

Sheet	09 of 23
Scale	1:500 H 1:50 V @ A1
Project Ref	1801767
Stage No	41
Drawing No	100
Rev	A

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LEGEND	
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	EXISTING SURFACE AT RIGHT BOUNDARY
	RIGHT LIP OF KERB
	EXISTING SURFACE AT LEFT BOUNDARY
	LEFT LIP OF KERB

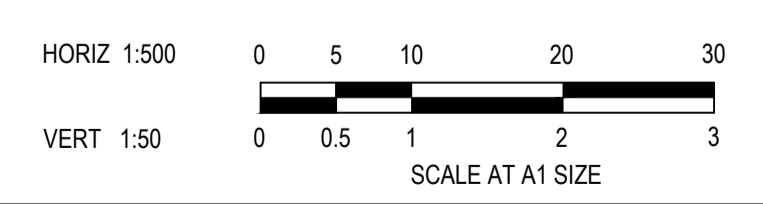


**City of Casey**

**Approved By:** Ange Dean  
**Planning Ref:** PA21-0174  
**File No:** SEng00300/22  
**Date:** 19/04/2023  
**Council Drawing No.:** R5956

**Approval subject to:**  
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**Signed:**



**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					

DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP



Designed: C.DAWSON  
 Date: 28.10.2022  
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 Date: 21.11.2022  
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**Beveridge Williams**  
 Development and Infrastructure Consultants

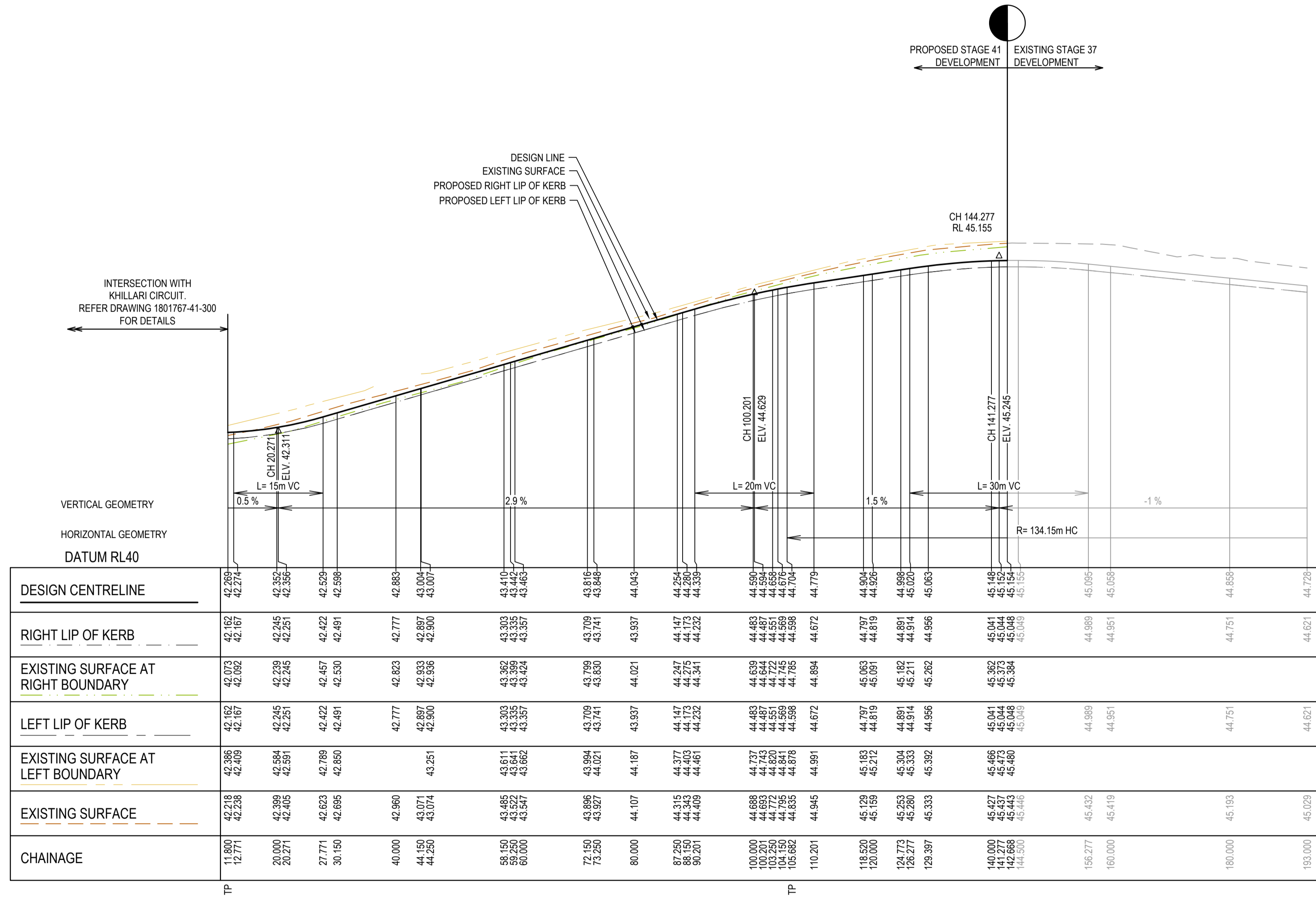
1 Glenferrie Road  
 Malvern VIC 3144  
 ph: 03 9524 8888  
 www.beveridgewilliams.com.au

Project Details  
 MERIDIAN CENTRAL ESTATE  
 STAGE 41  
 CITY OF CASEY

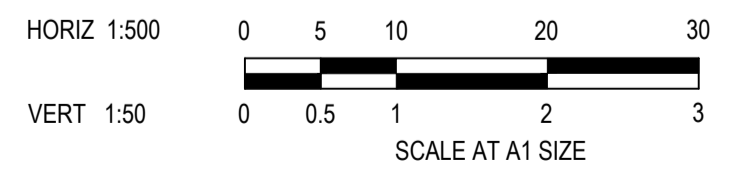
Drawing Title  
 ROAD LONGITUDINAL SECTIONS  
 KHILLARI CIRCUIT

Sheet	10 of 23
Scale	1:500 H 1:50 V @ A1
Project Ref	1801767
Stage No	41
Drawing No	101
Rev	A

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



MUTURU STREET LONGITUDINAL SECTION



**City of Casey**

Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date : 19/04/2023  
 Council Drawing No.: R5956

**Approval subject to:**  
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Signed:

**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
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Designed: C.DAWSON  
 Date: 28.10.2022  
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Project Details  
 MERIDIAN CENTRAL ESTATE  
 STAGE 41  
 CITY OF CASEY

Drawing Title  
 ROAD LONGITUDINAL SECTIONS  
 MUTURU STREET

Sheet	11 of 23
Scale	1:500 H 1:50 V @ A1
Project Ref	1801767
Stage No	41
Drawing No	102
Rev	A

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# City of Casey

Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date: 19/04/2023  
 Council Drawing No.: R5956

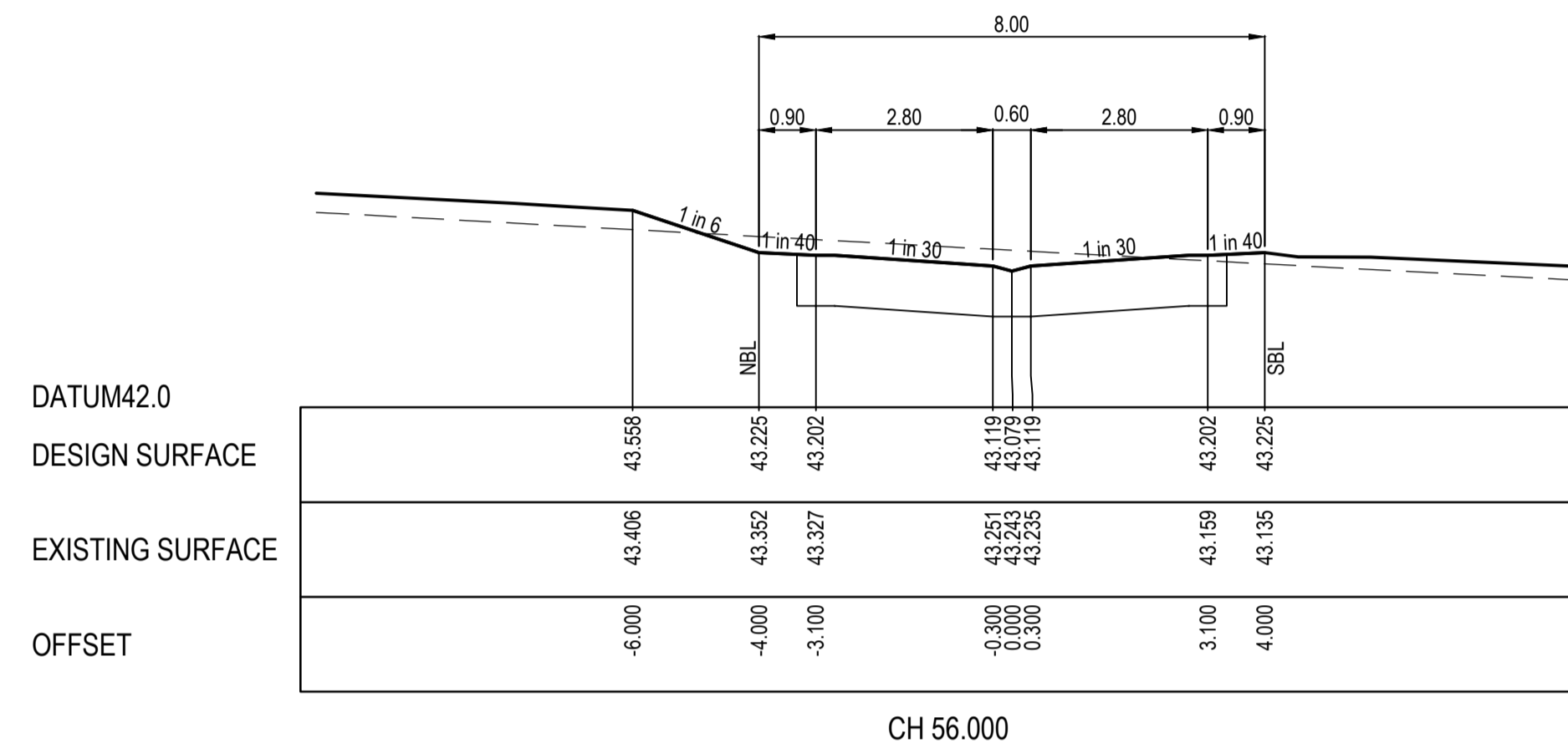
Approval subject to:  
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Signed: *[Signature]*

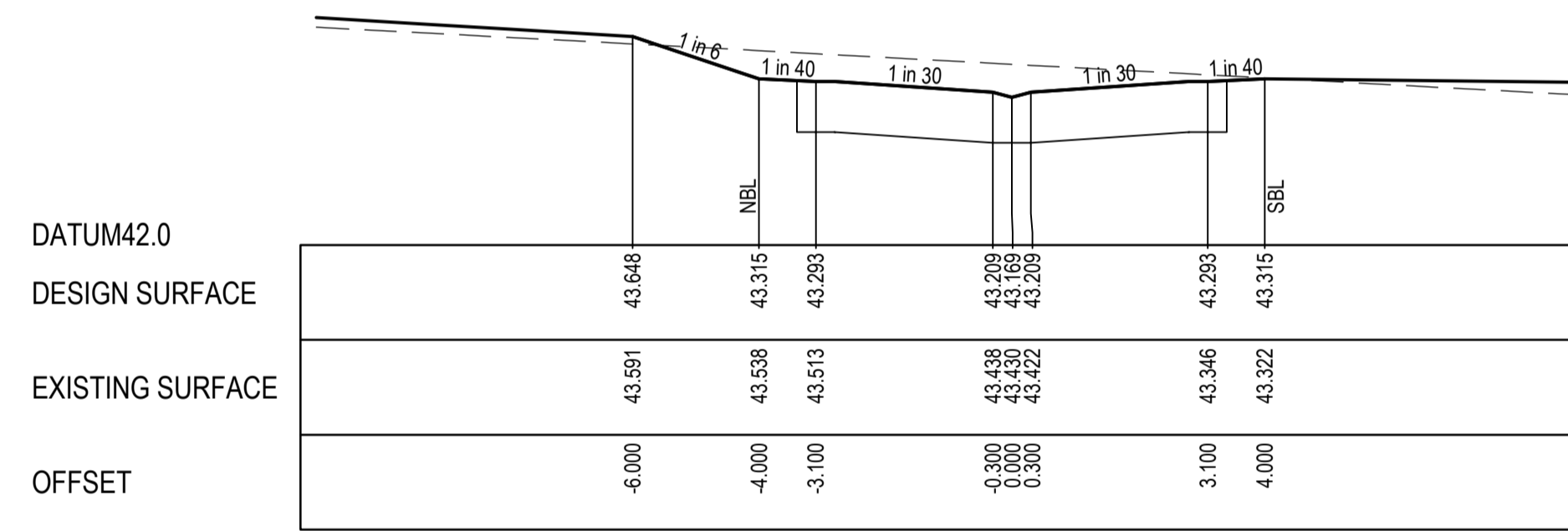
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

**LEGEND**

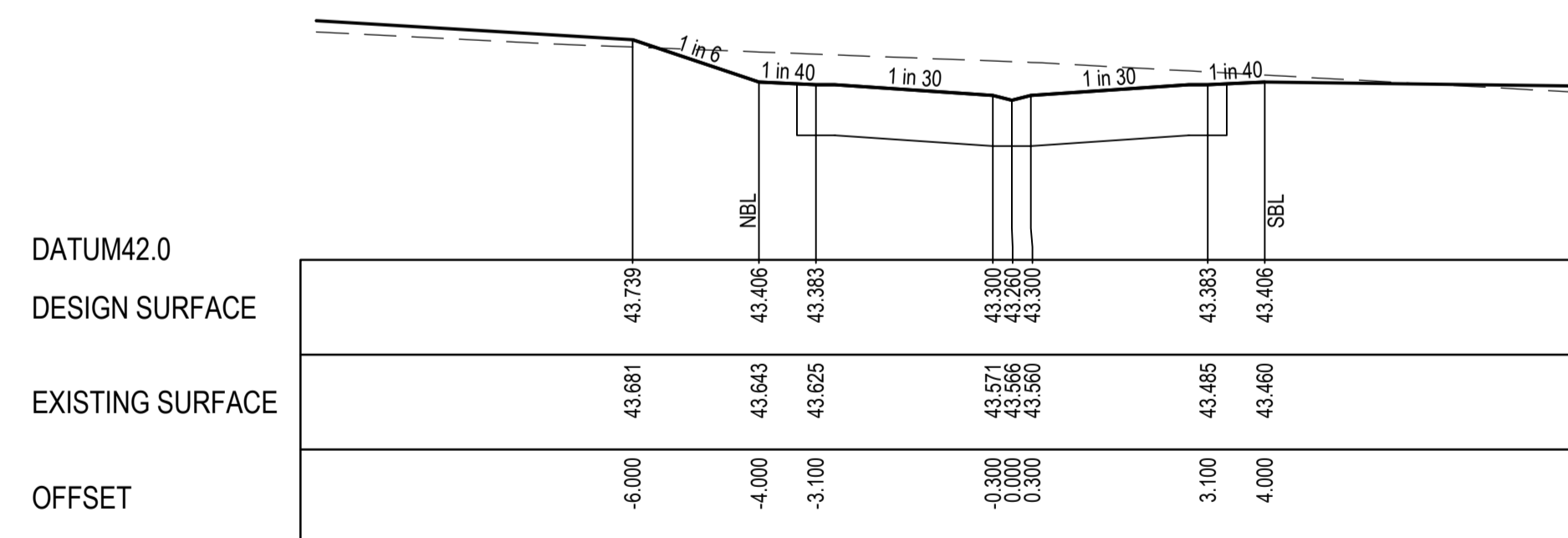
- EXISTING SURFACE
- DESIGN SURFACE
- ▨ STRUCTURAL FILL



CH 56.000

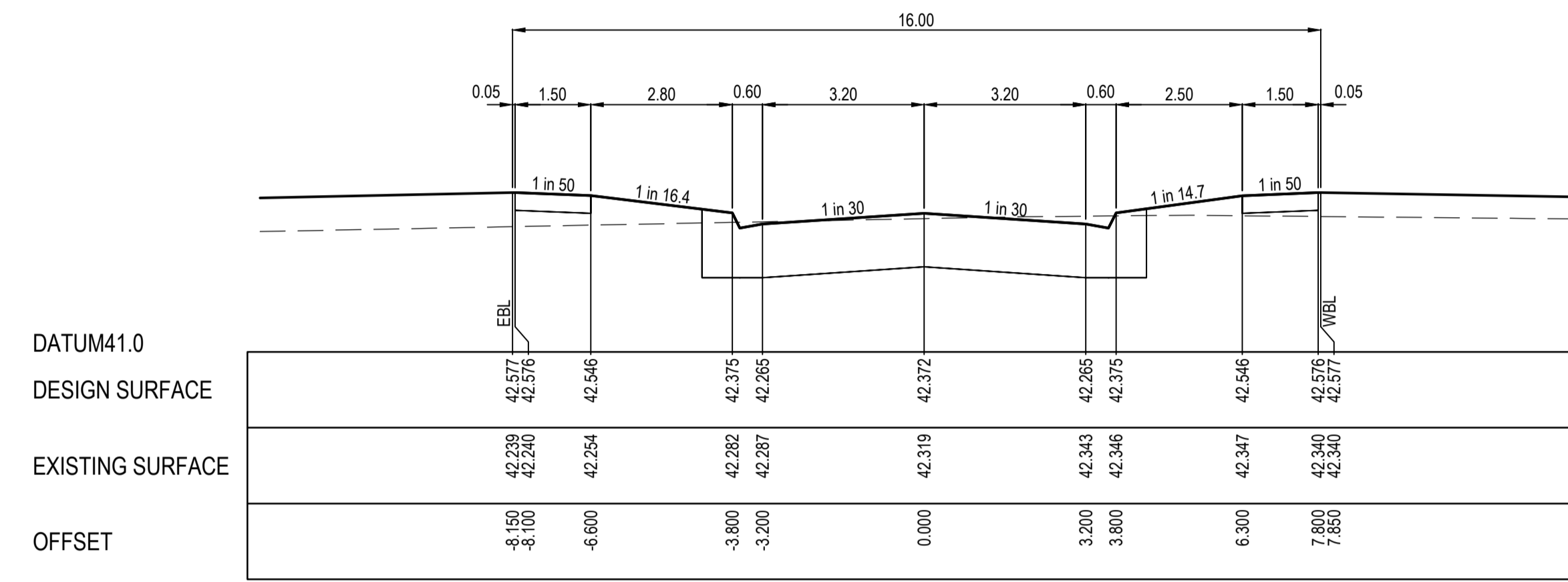


CH 44.000

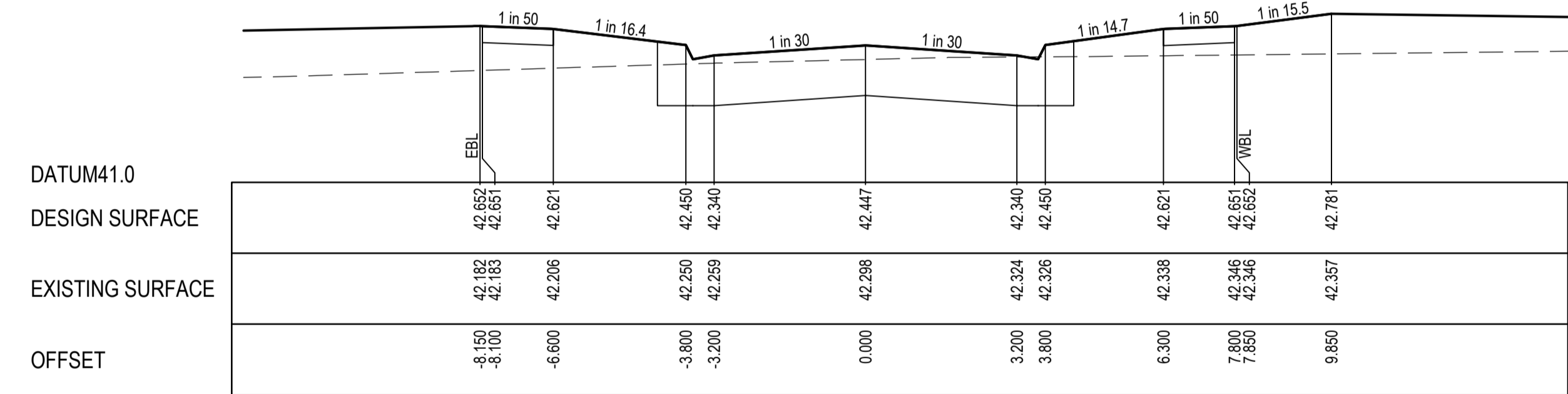


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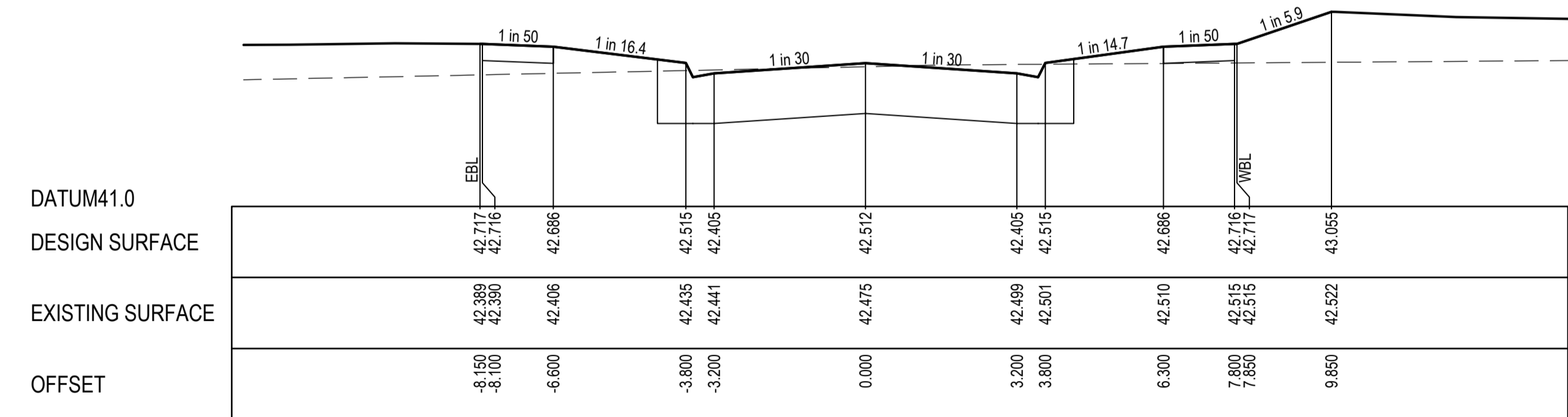
AWEIL LANE CROSS SECTIONS



CH 39.850



CH 24.850



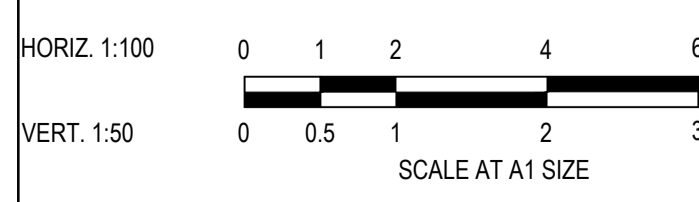
TPCH 11.800

BAKOSI STREET CROSS SECTIONS

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 Malvern VIC 3144  
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 www.beveridgewilliams.com.au

Project Details  
 MERIDIAN CENTRAL ESTATE  
 STAGE 41  
 CITY OF CASEY

Drawing Title  
 ROAD CROSS SECTIONS  
 AWEIL LANE & BAKOSI CIRCUIT

Sheet	12 of 23
Scale	1:100 H 1:50 V @ A1
Project Ref	1801767
Stage No	41
Drawing No	200
Rev	A

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# City of Casey

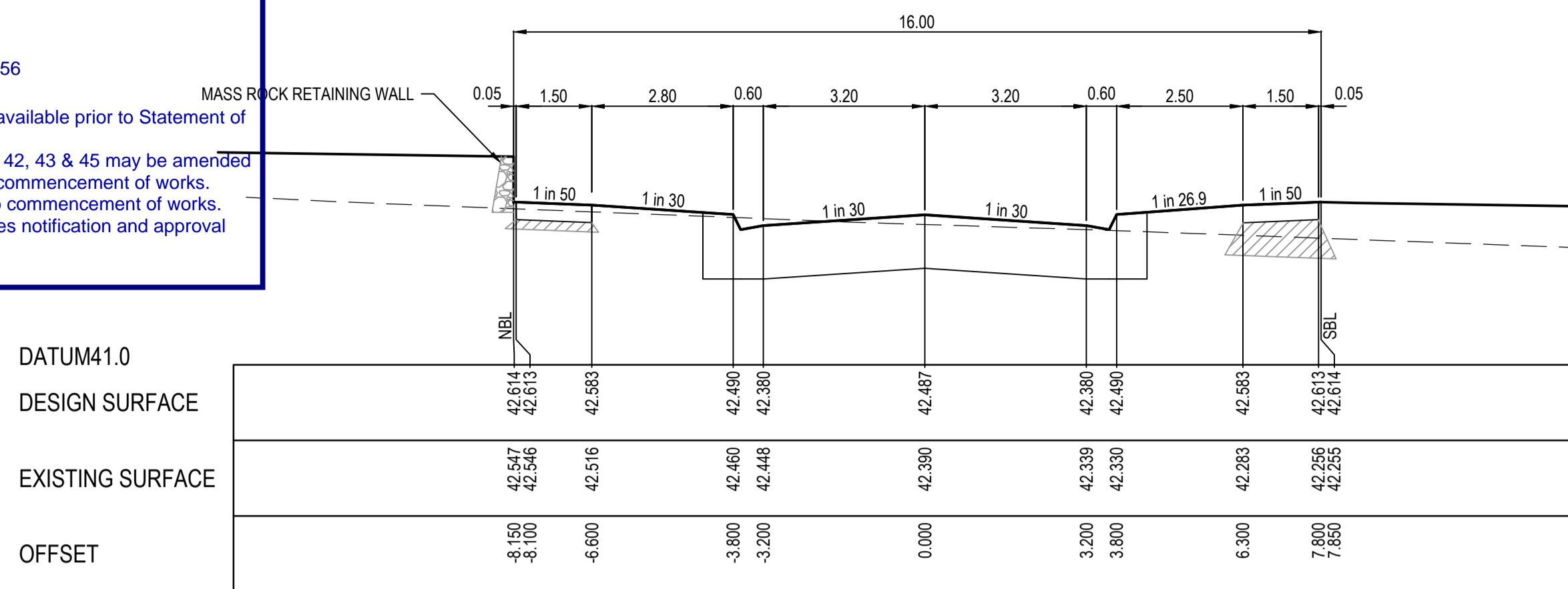
Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date: 19/04/2023  
 Council Drawing No.: R5956

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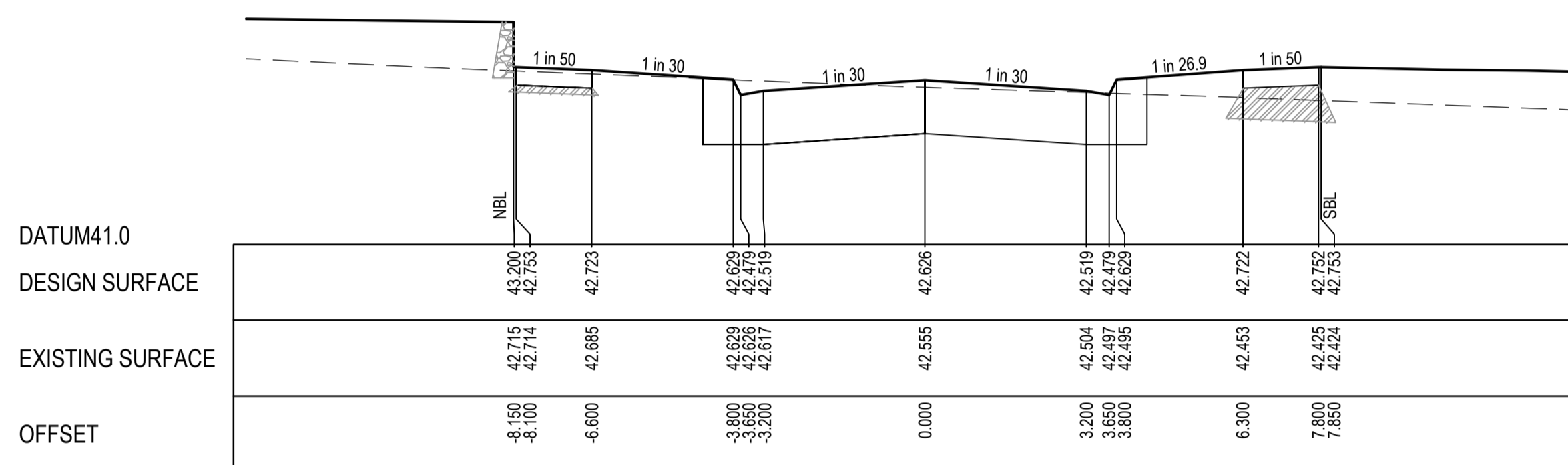
Signed:

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

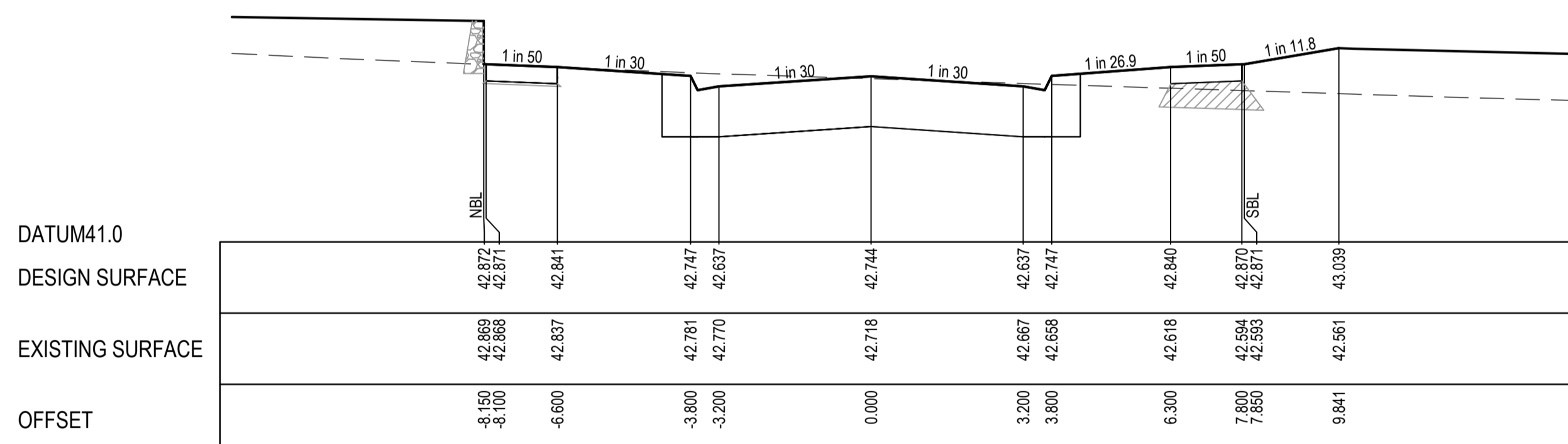
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	DESIGN SURFACE
	STRUCTURAL FILL



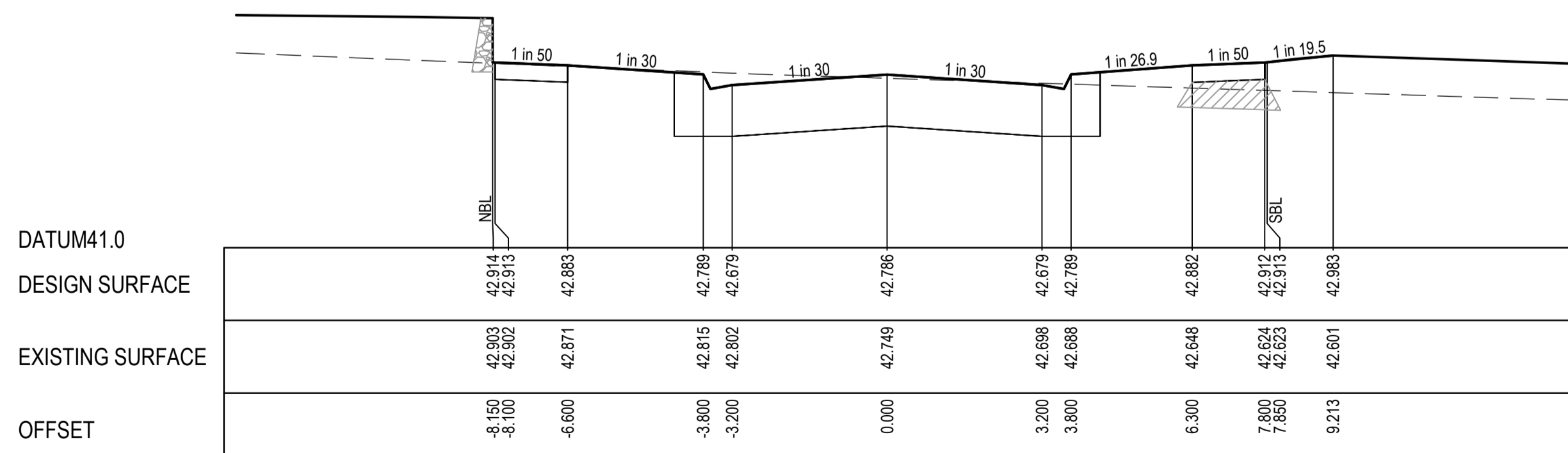
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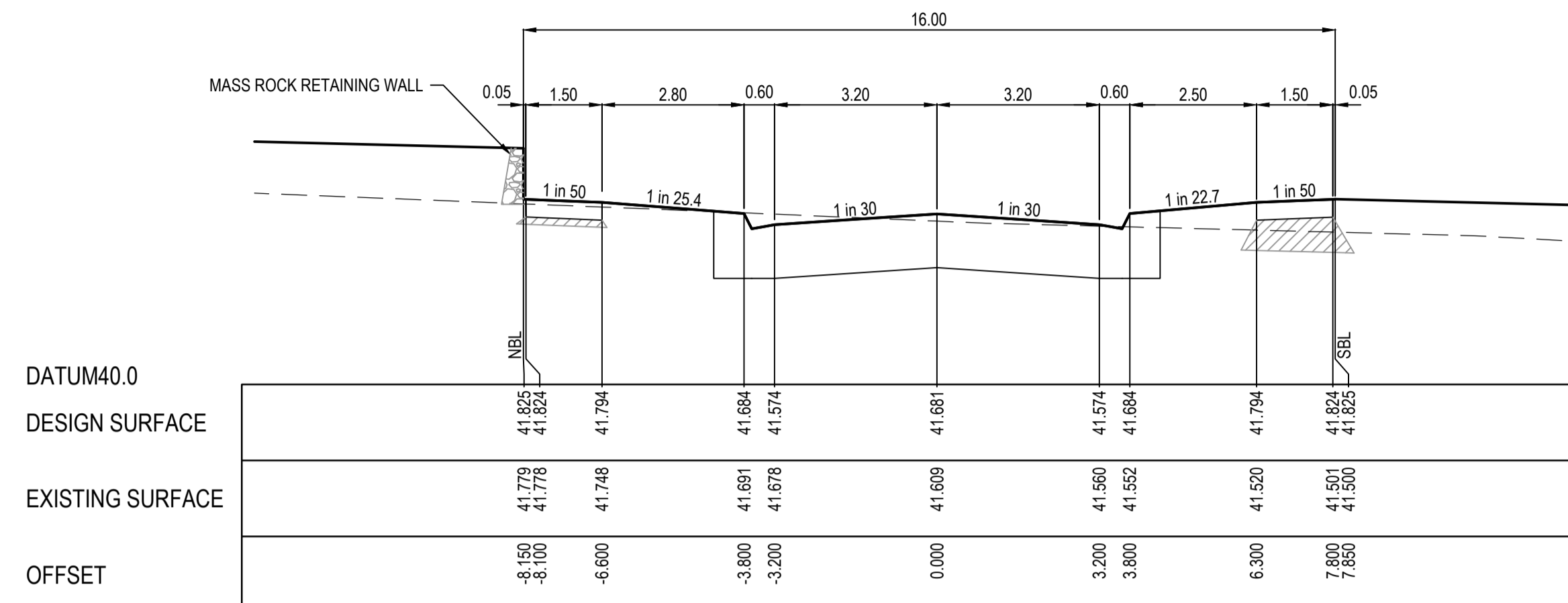
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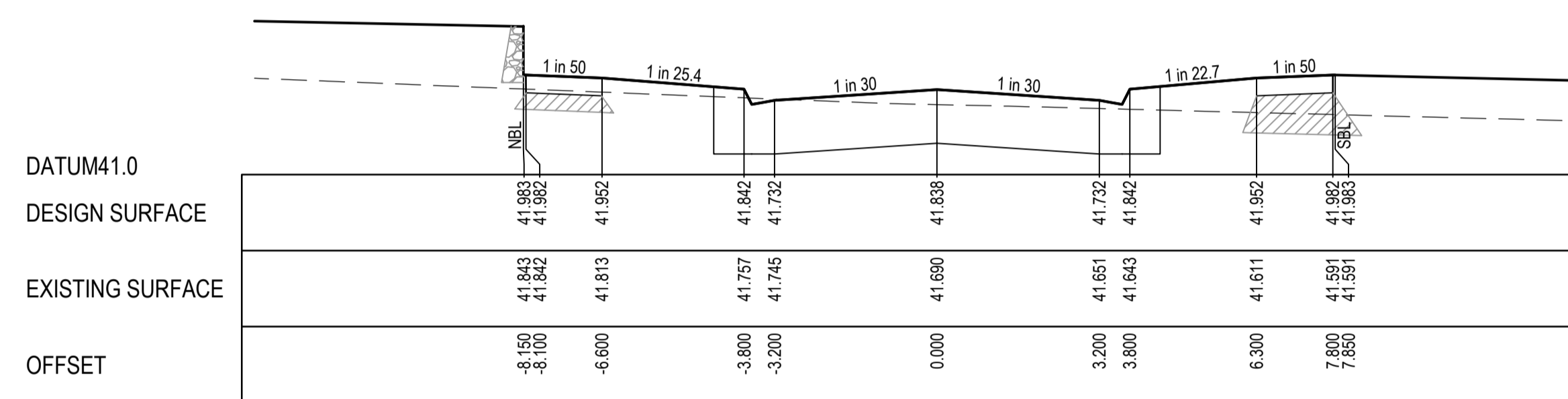
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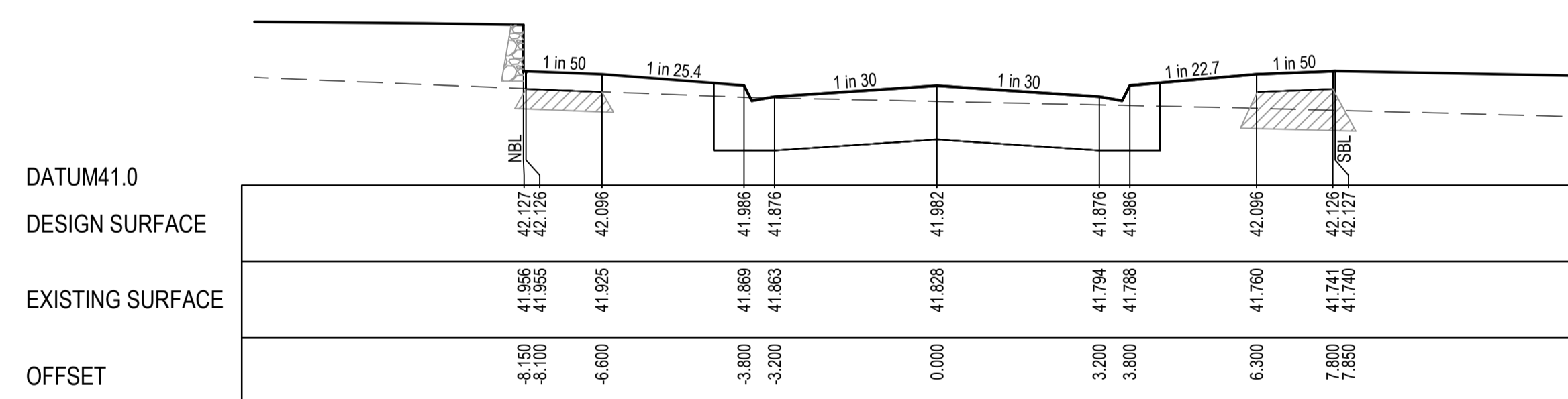
TPCH 382.627



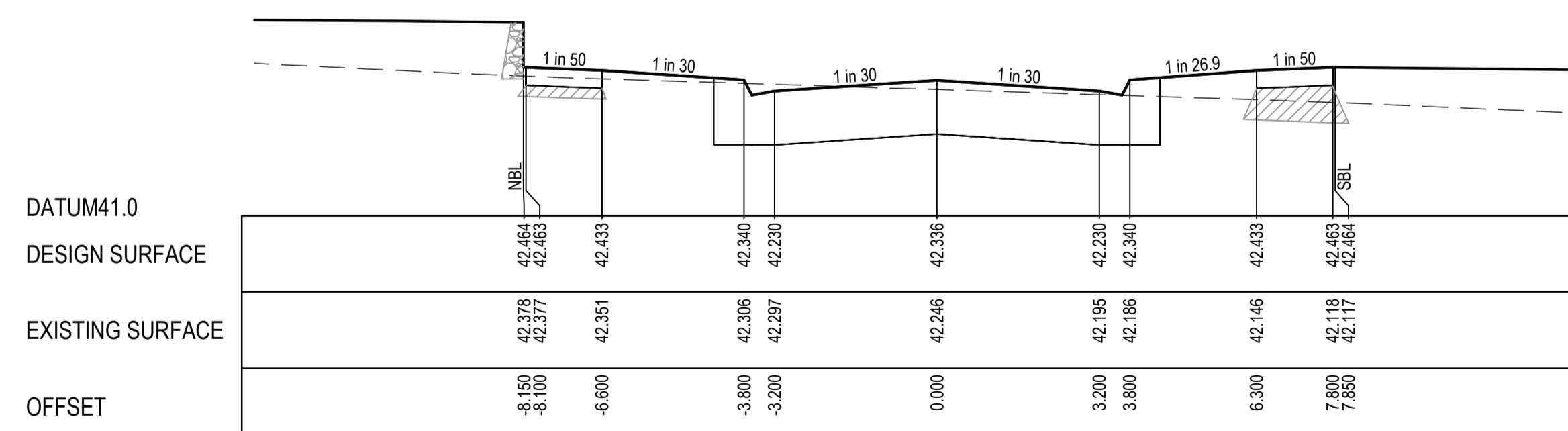
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CH 472.227



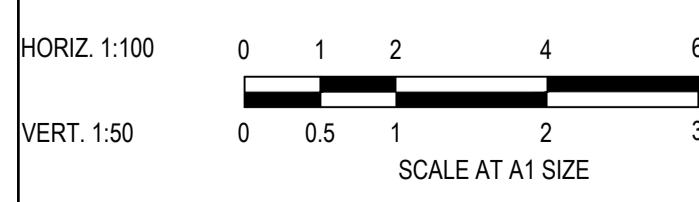
LTPCH 462.627



LTPCH 439.027

ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					



Designed: C.DAWSON  
 Date: 28.10.2022  
 Drawn: L.SUTHERLAND  
 Checked: M.FELICIANO  
 Date: 21.11.2022  
 Approved: M.FELICIANO  
 Reg. No: PE0005645  
 Date: 21.11.2022  
 PS Number: PS906797B

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


Project Details  
 MERIDIAN CENTRAL ESTATE  
 STAGE 41  
 CITY OF CASEY

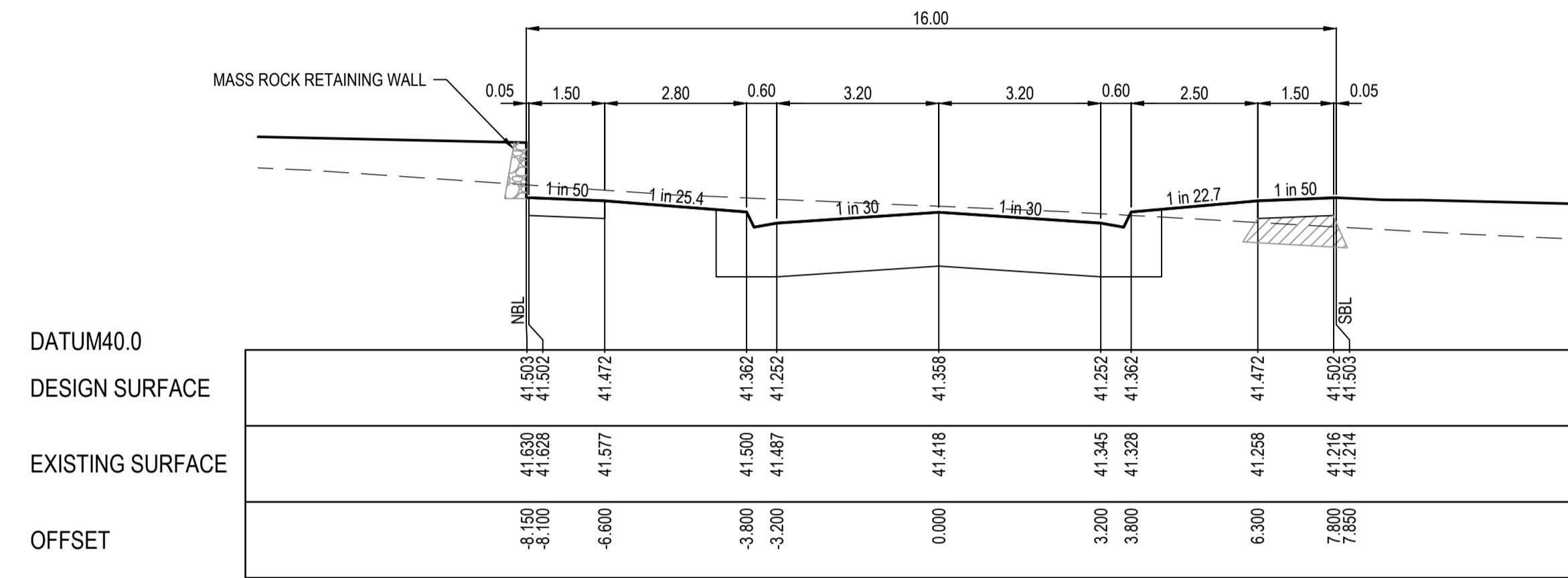
Drawing Title  
 ROAD CROSS SECTIONS  
 KHILLARI CIRCUIT  
 (SHEET 1 OF 2)

Sheet	13 of 23
Scale	1:100 H 1:50 V @ A1
Project Ref	1801767
Stage No	41
Drawing No	201
Rev	A

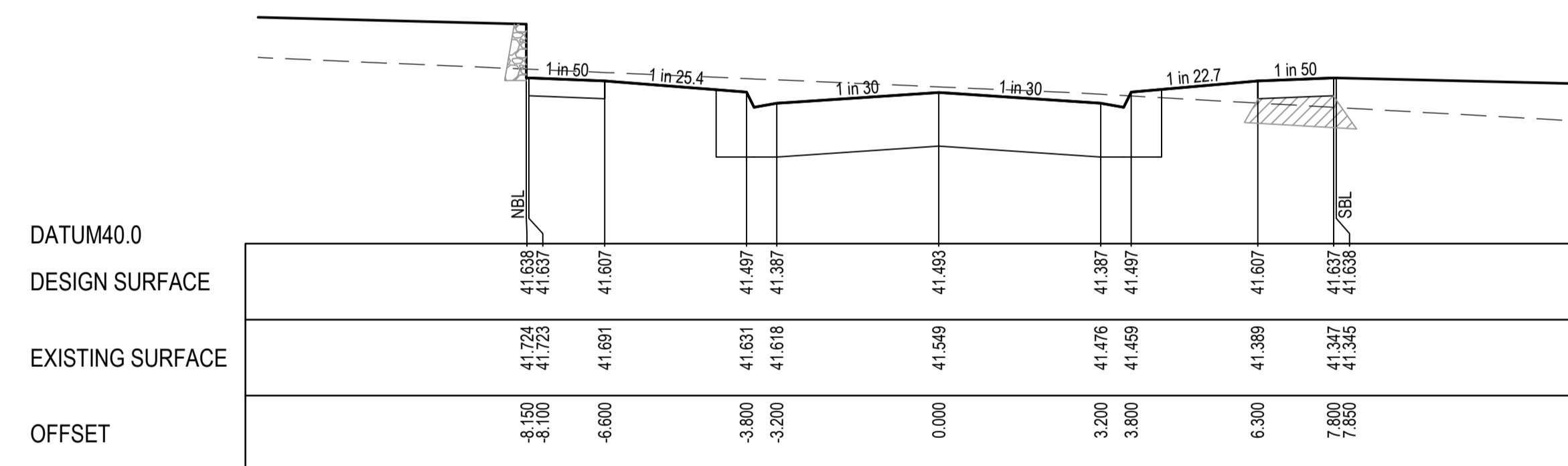
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STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE NATURAL SURFACE. REFER GEOTECH REPORT FOR SPECIFICATION

LEGEND	
---	EXISTING SURFACE
—	DESIGN SURFACE
	STRUCTURAL FILL



CH 505.727



CH 495.227

### City of Casey

Approved By: Ange Dean

Planning Ref: PA21-0174

File No: SEng00300/22

Date : 19/04/2023

Council Drawing No.: R5956

Approval subject to:

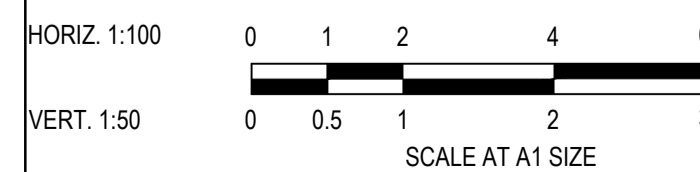
- A free draining out being available prior to Statement of Compliance.
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- Relevant service authorities notification and approval

Signed: 

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

Project Details	MERIDIAN CENTRAL ESTATE STAGE 41 CITY OF CASEY
Drawing Title	ROAD CROSS SECTIONS KHILLARI CIRCUIT (SHEET 2 OF 2)

Sheet 14 of 23

Scale  
1:100 H 1:50 V @ A1




Project Ref	Stage No	Drawing No	Rev
1801767	41	202	A

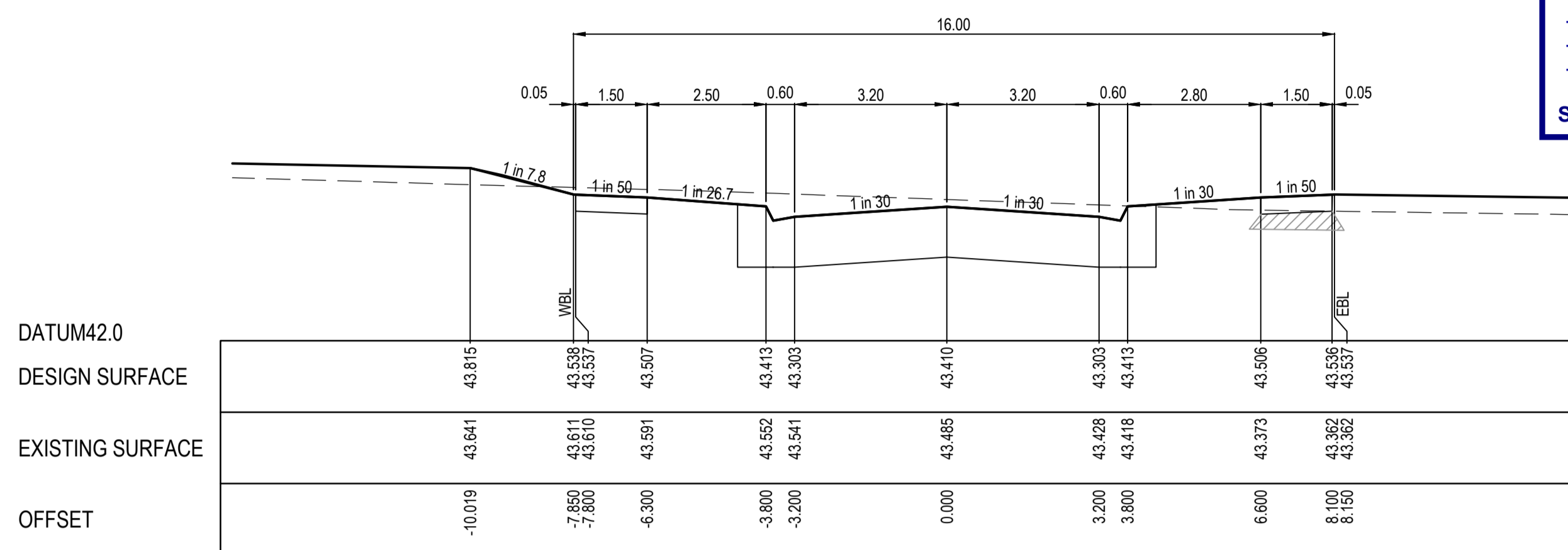
# City of Casey

**Approved By:** Ange Dean  
**Planning Ref:** PA21-0174  
**File No:** SEng00300/22  
**Date :** 19/04/2023  
**Council Drawing No.:** R5956  
**Approval subject to:**  
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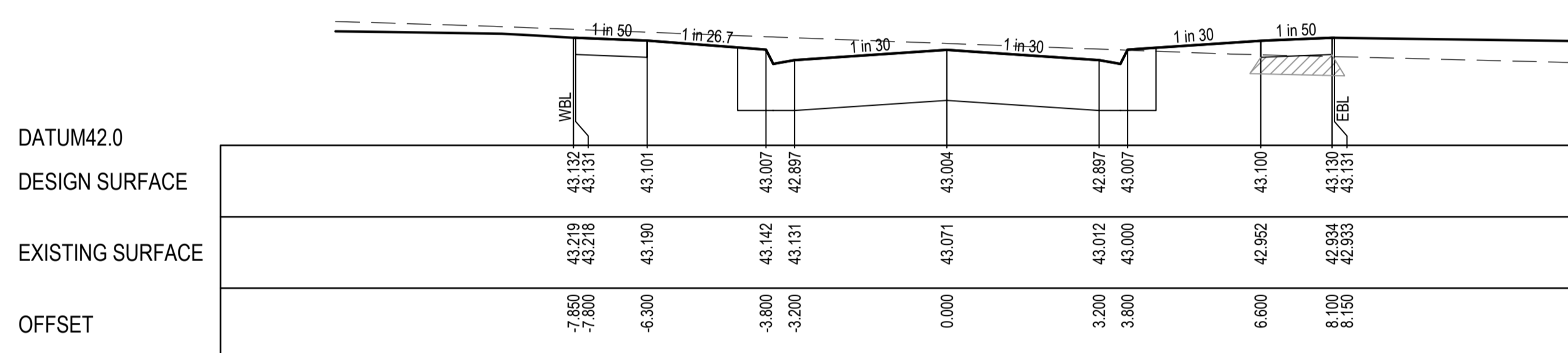
Signed: 

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

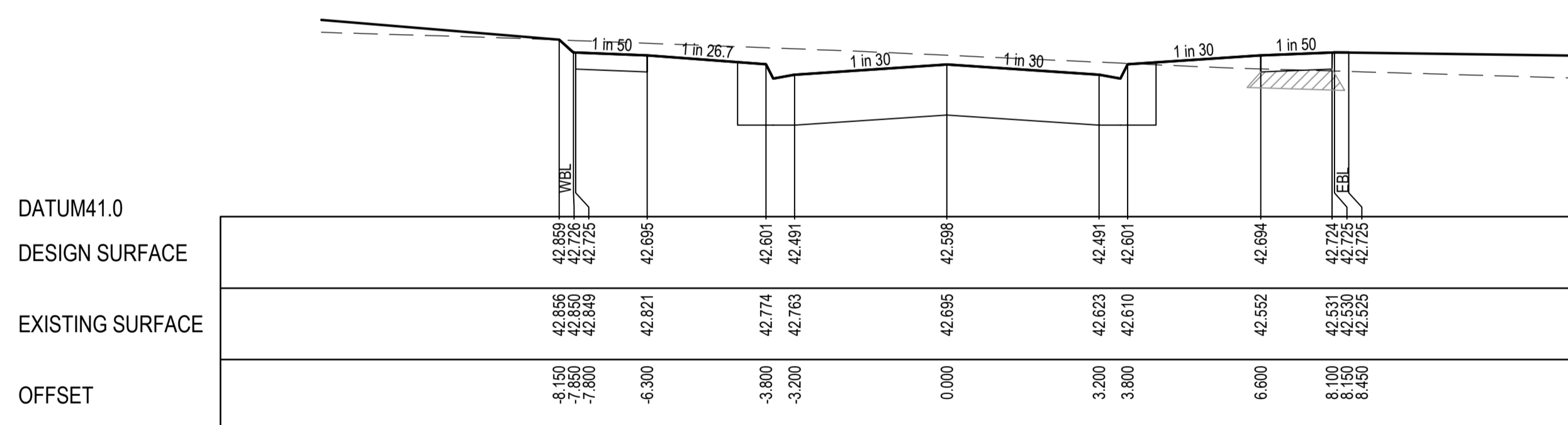
LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	STRUCTURAL FILL



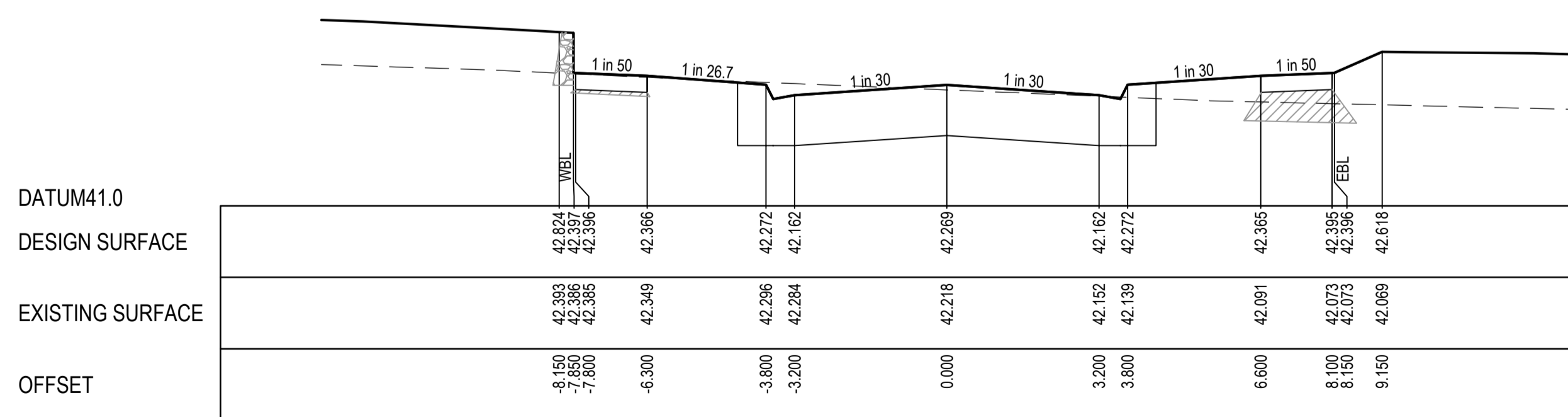
CH 58.150



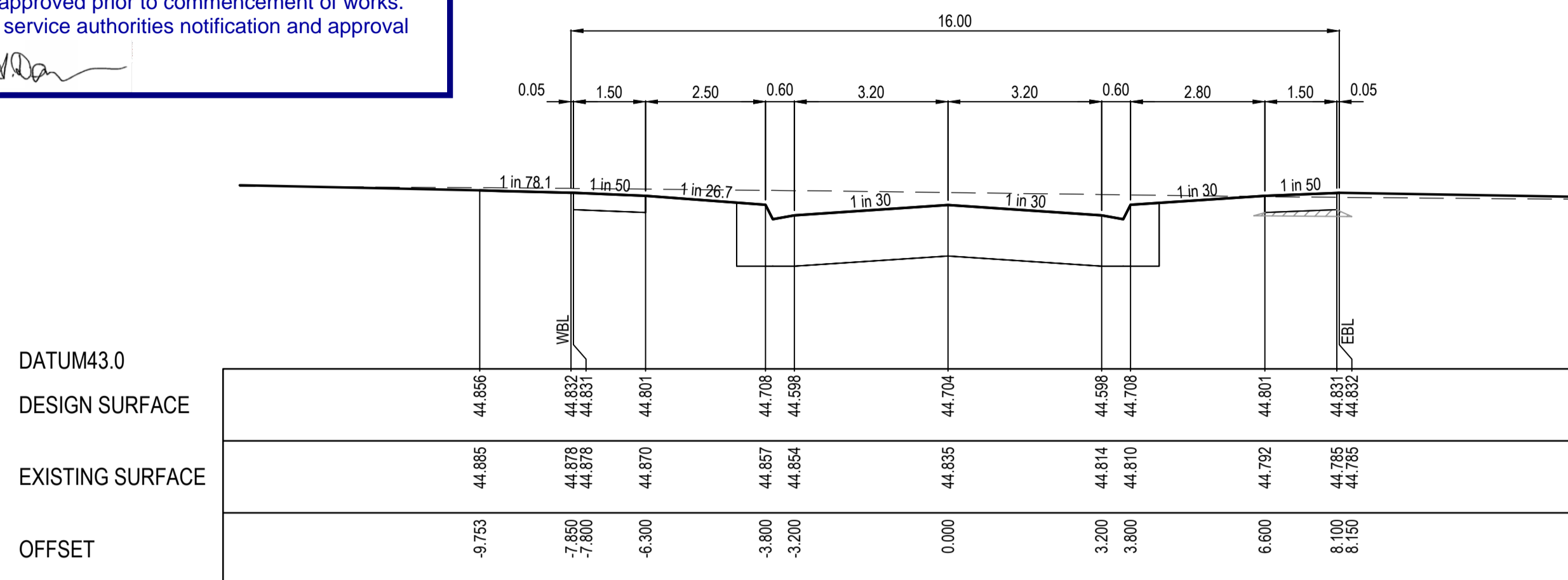
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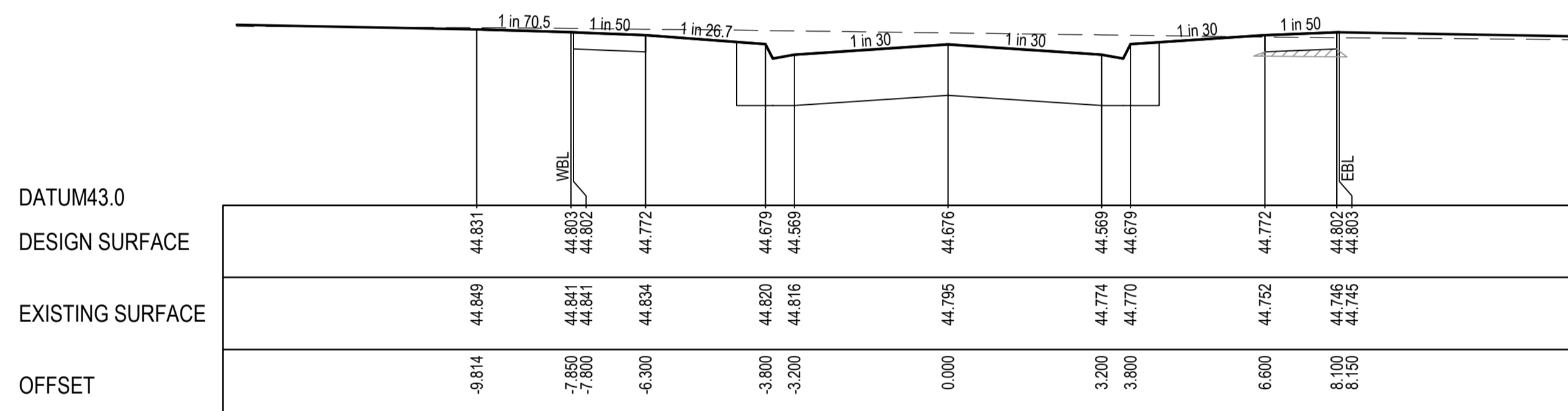
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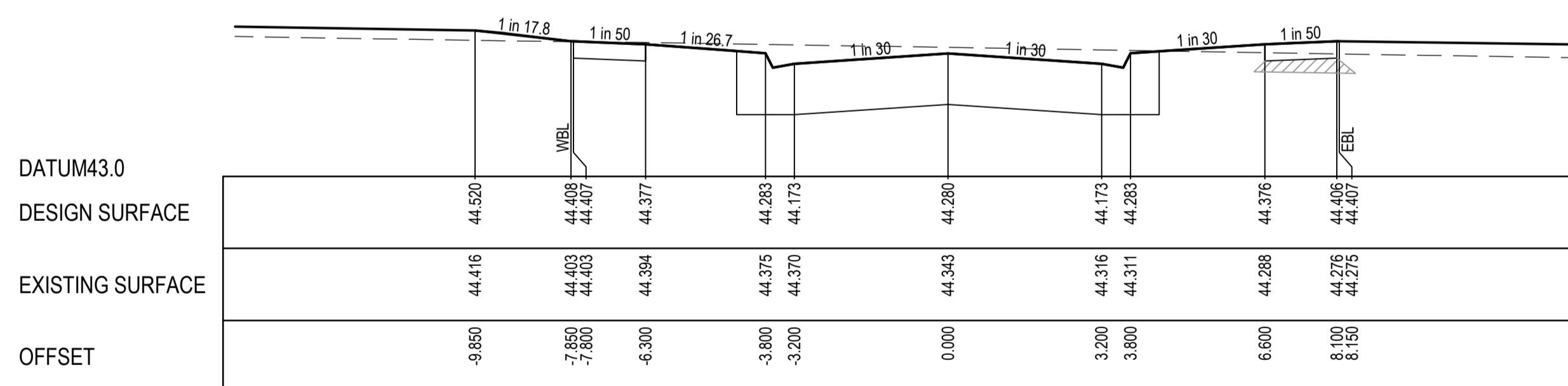
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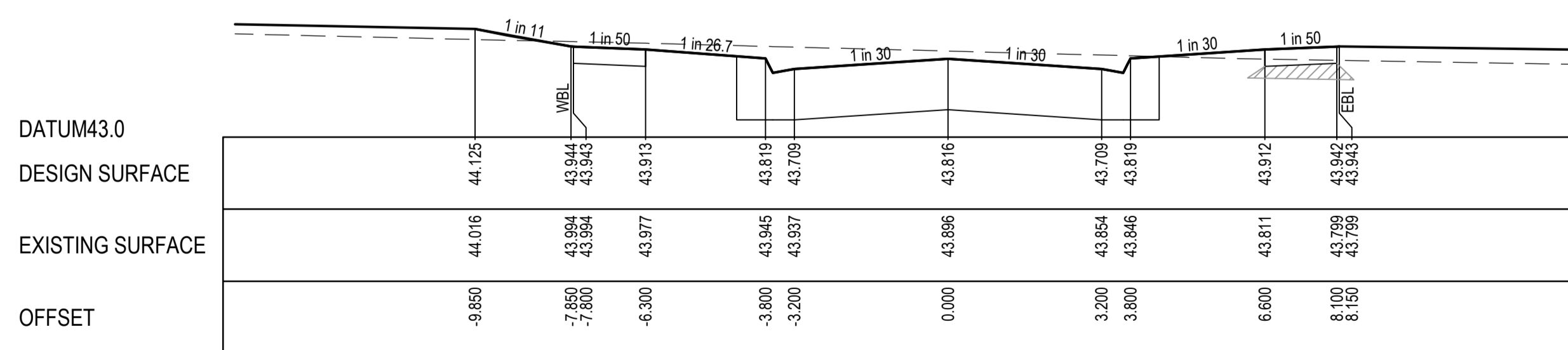
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CH 104.150



CH 88.150

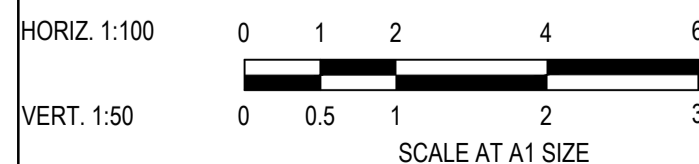


CH 72.150

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REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
B	COUNCIL COMMENTS	11.04.23	MF	MF					
A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					



Designed	C.DAWSON
Date	28.10.2022
Drawn	L.SUTHERLAND
Checked	M.FELICIANO
Date	21.11.2022
Approved	M.FELICIANO
Reg. No.	PE0005645
Date	21.11.2022
PS Number	PS906797B

**Beveridge Williams**  
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 1 Glenferrie Road  
 Malvern VIC 3144  
 ph: 03 9524 8888  
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Project Details  
 MERIDIAN CENTRAL ESTATE  
 STAGE 41  
 CITY OF CASEY  
 Drawing Title  
 ROAD CROSS SECTIONS  
 MUTURU STREET  
 (SHEET 1 OF 2)

Sheet 15 of 23

Scale 1:100 H 1:50 V @ A1


Project Ref 1801767

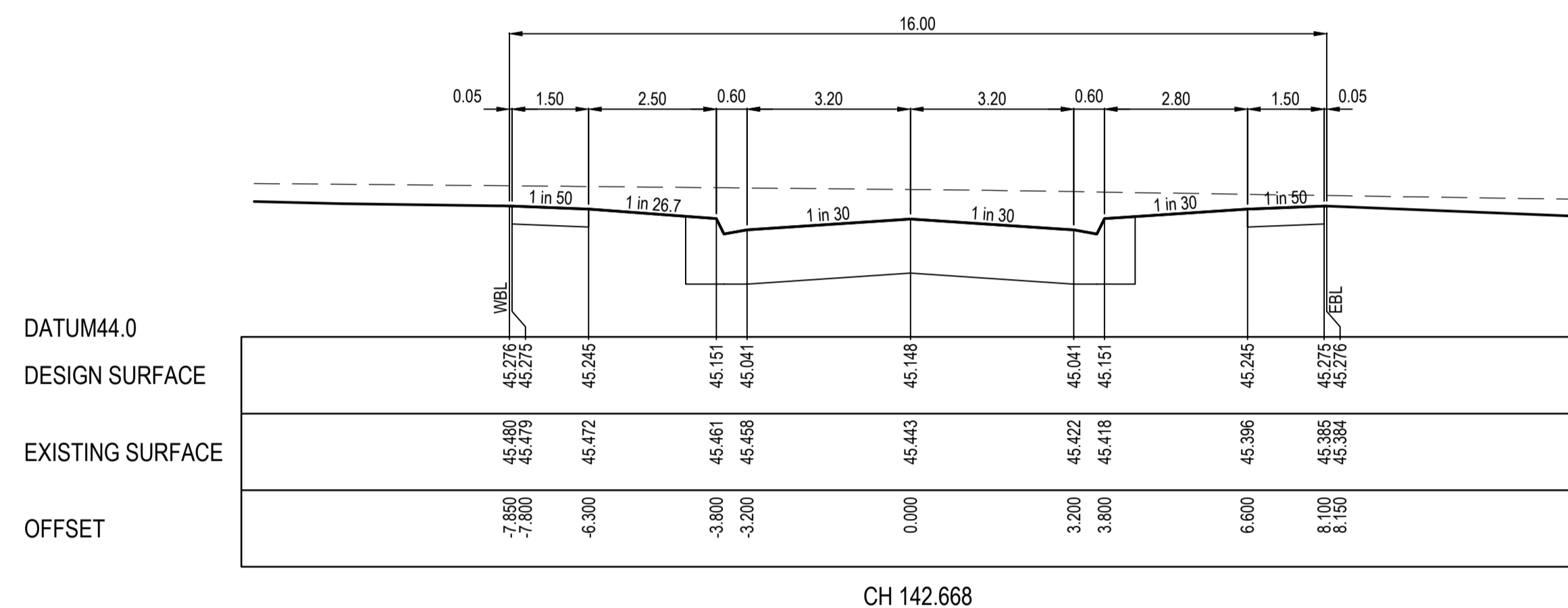
Stage No 41

Drawing No 203

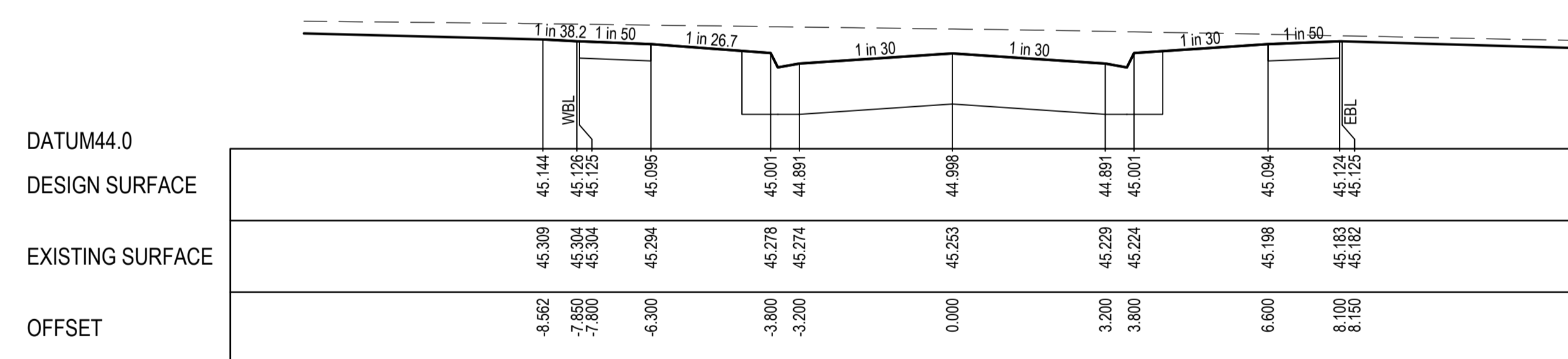
Rev B

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

LEGEND	
---	EXISTING SURFACE
—	DESIGN SURFACE
	STRUCTURAL FILL



CH 142.668



CH 124.773

**City of Casey**

Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date : 19/04/2023  
 Council Drawing No.: R5956

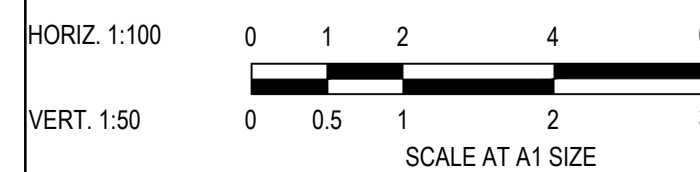
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Signed: 

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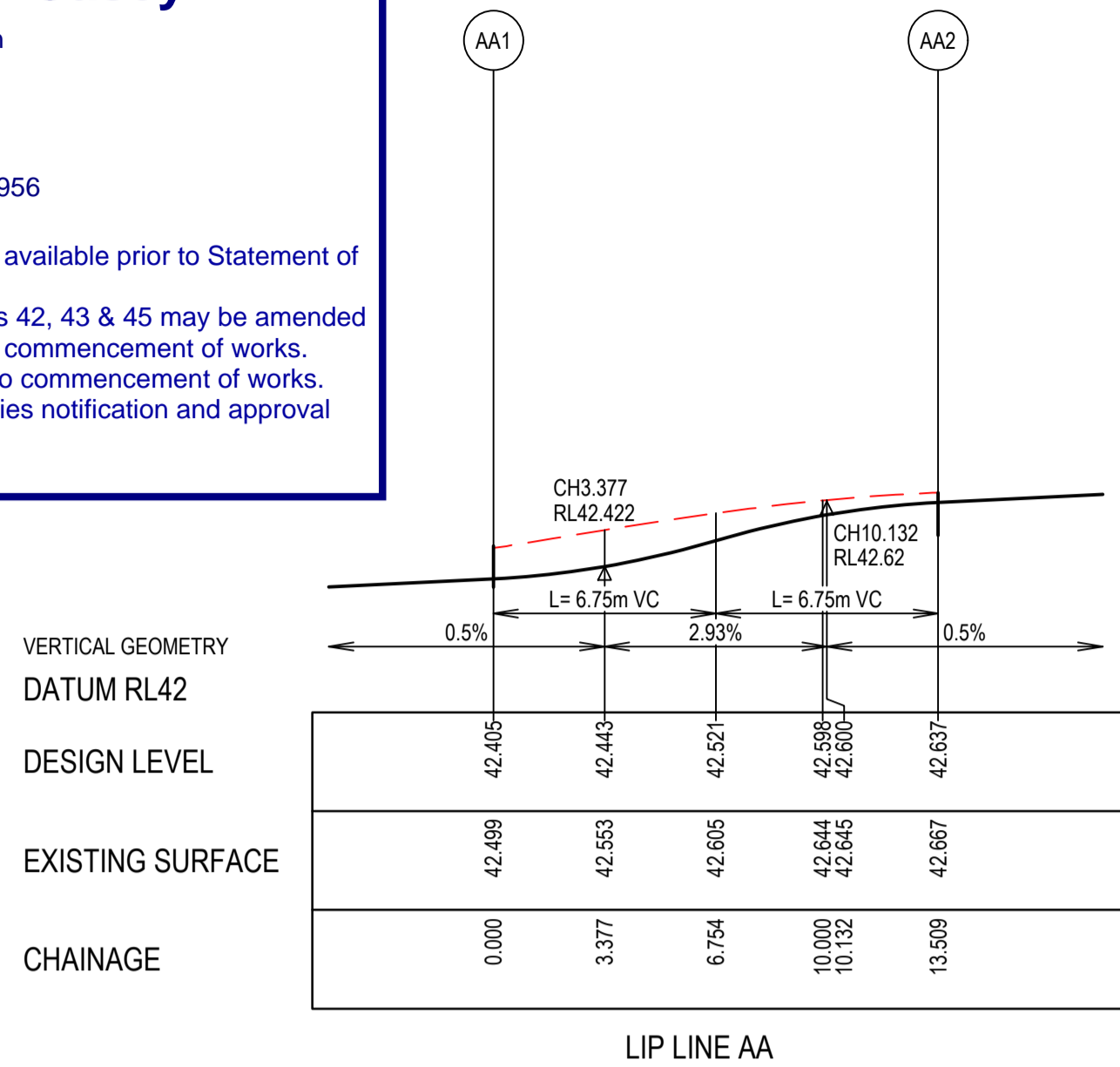
Project Details	MERIDIAN CENTRAL ESTATE STAGE 41 CITY OF CASEY
Drawing Title	ROAD CROSS SECTIONS MUTURU STREET (SHEET 2 OF 2)

Sheet	16 of 23
Scale	1:100 H 1:50 V @ A1
Project Ref	1801767
Stage No	41
Drawing No	204
Rev	B



# City of Casey

Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date: 19/04/2023  
 Council Drawing No.: R5956  
**Approval subject to:**  
 - A free draining out being available prior to Statement of Compliance.  
 - Drainage in future Stages 42, 43 & 45 may be amended.  
 - A TMP approved prior to commencement of works.  
 - An EMP approved prior to commencement of works.  
 - Relevant service authorities notification and approval  
 Signed: 

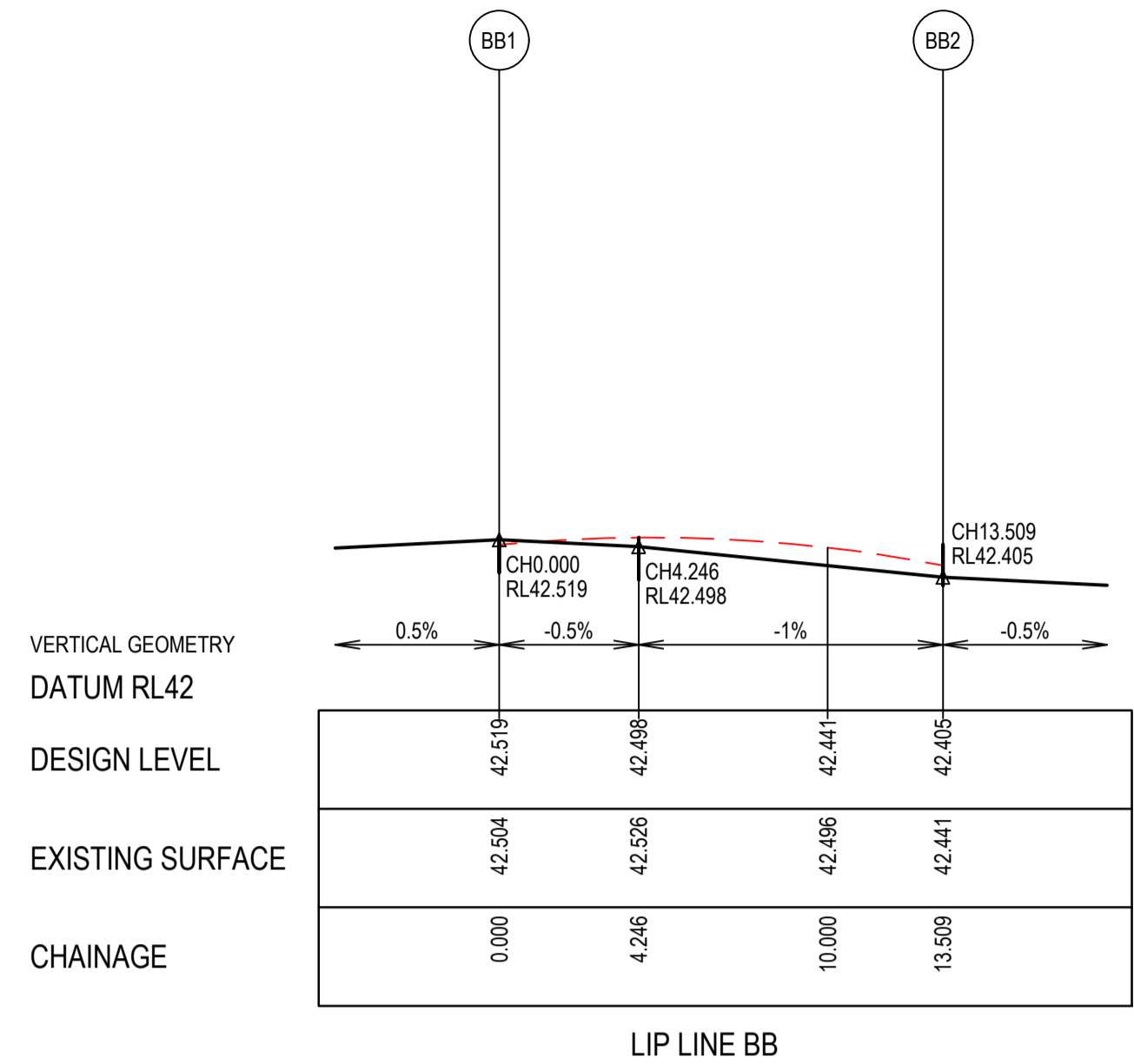


**LIP LINE AA**

Point no	Easting	Northing	RL
AA1	2482.244	261.254	42.405
AA2	2474.778	270.855	42.637

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
AA1 - AA2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	42.521

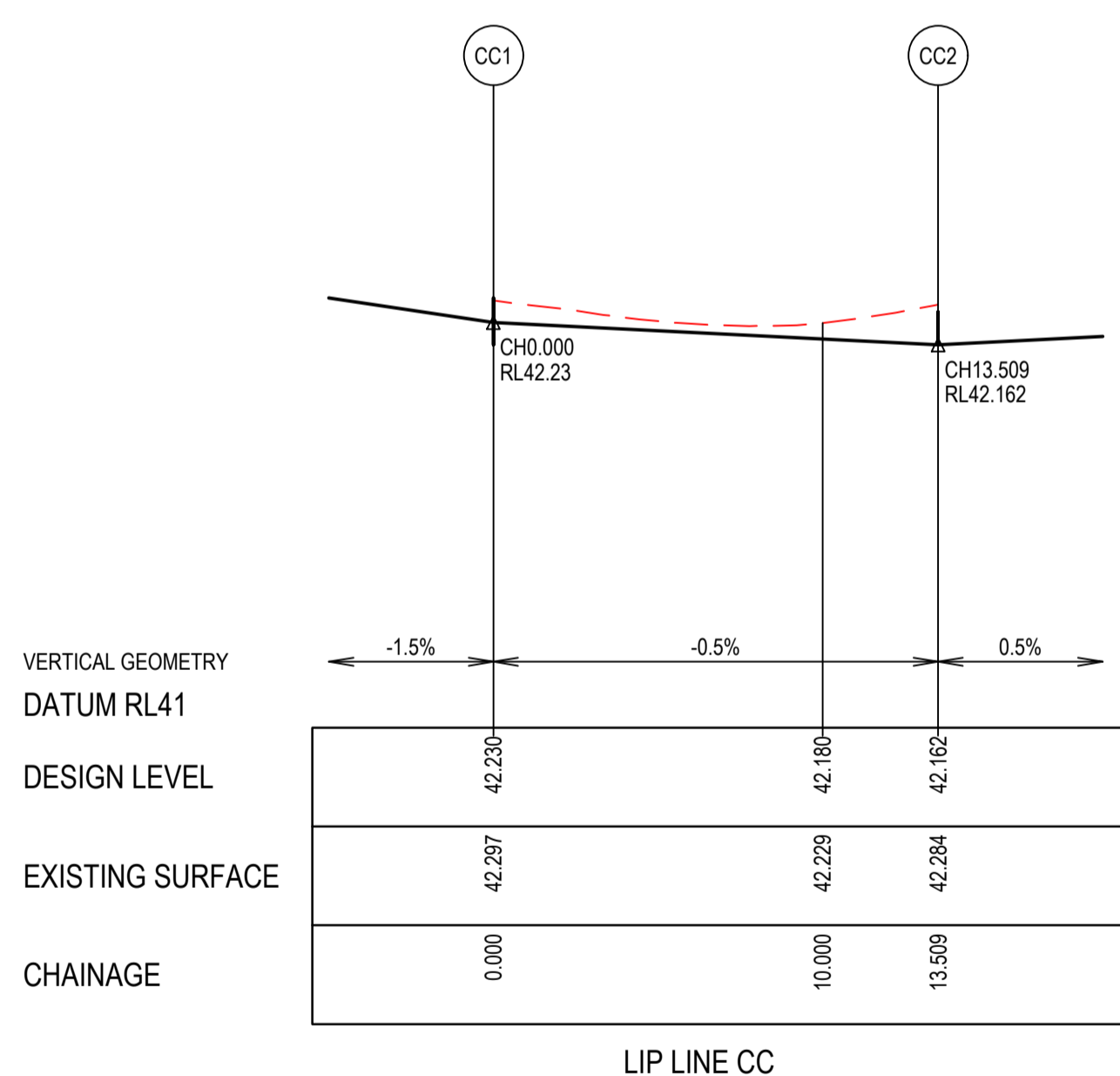
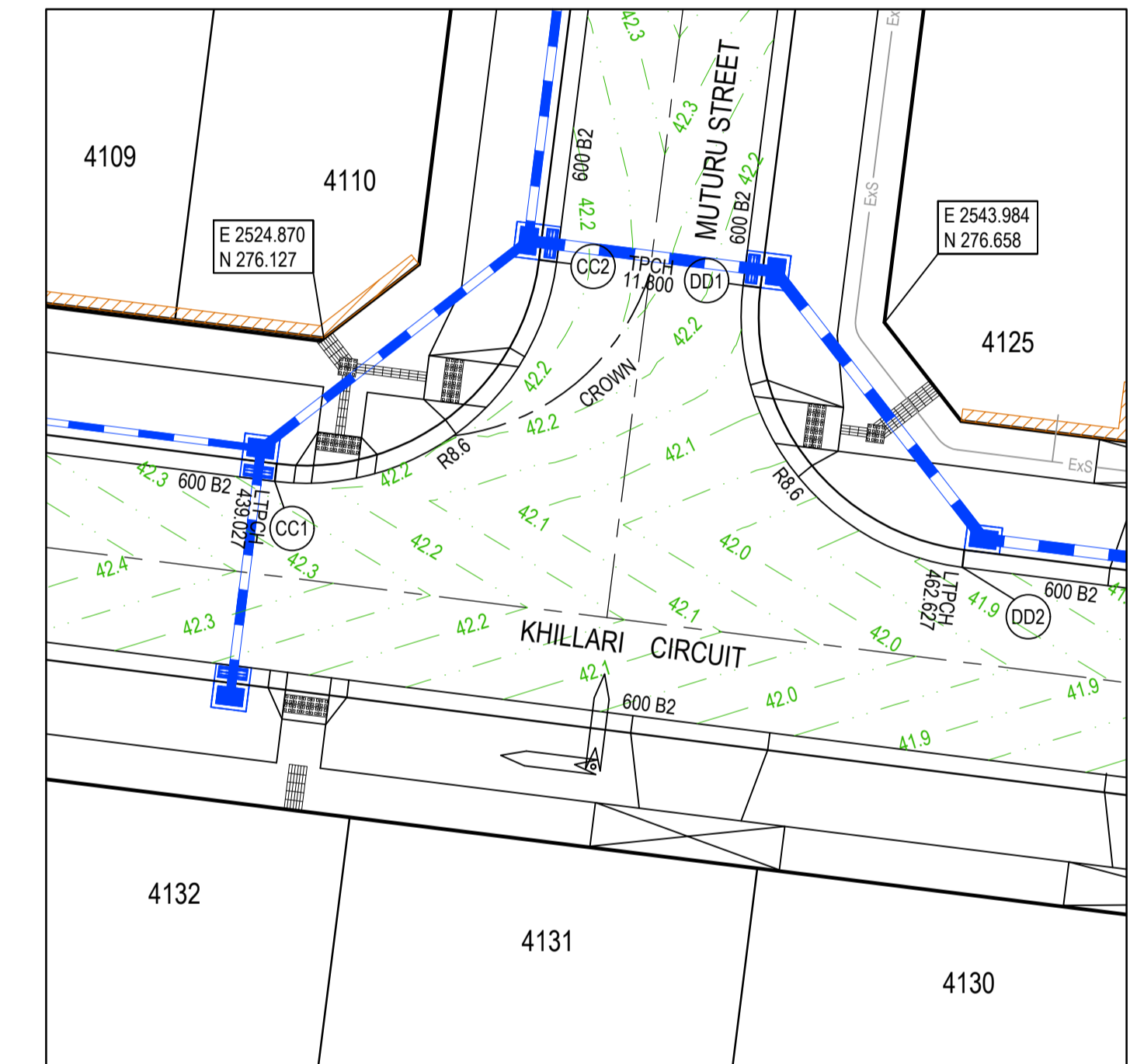
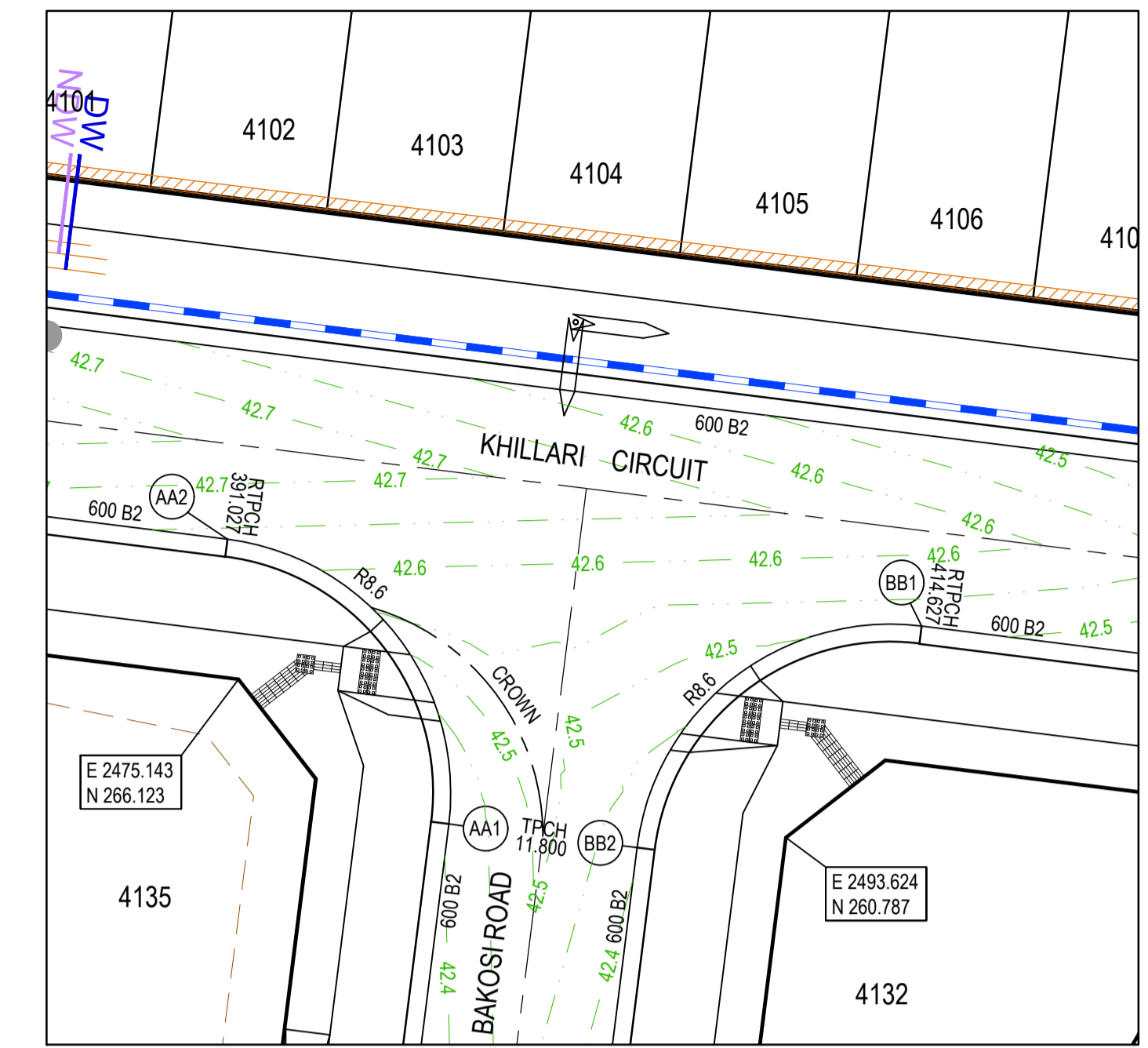


**LIP LINE BB**

Point no	Easting	Northing	RL
BB1	2498.195	267.925	42.519
BB2	2488.594	260.459	42.405

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
BB1 - BB2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	42.473

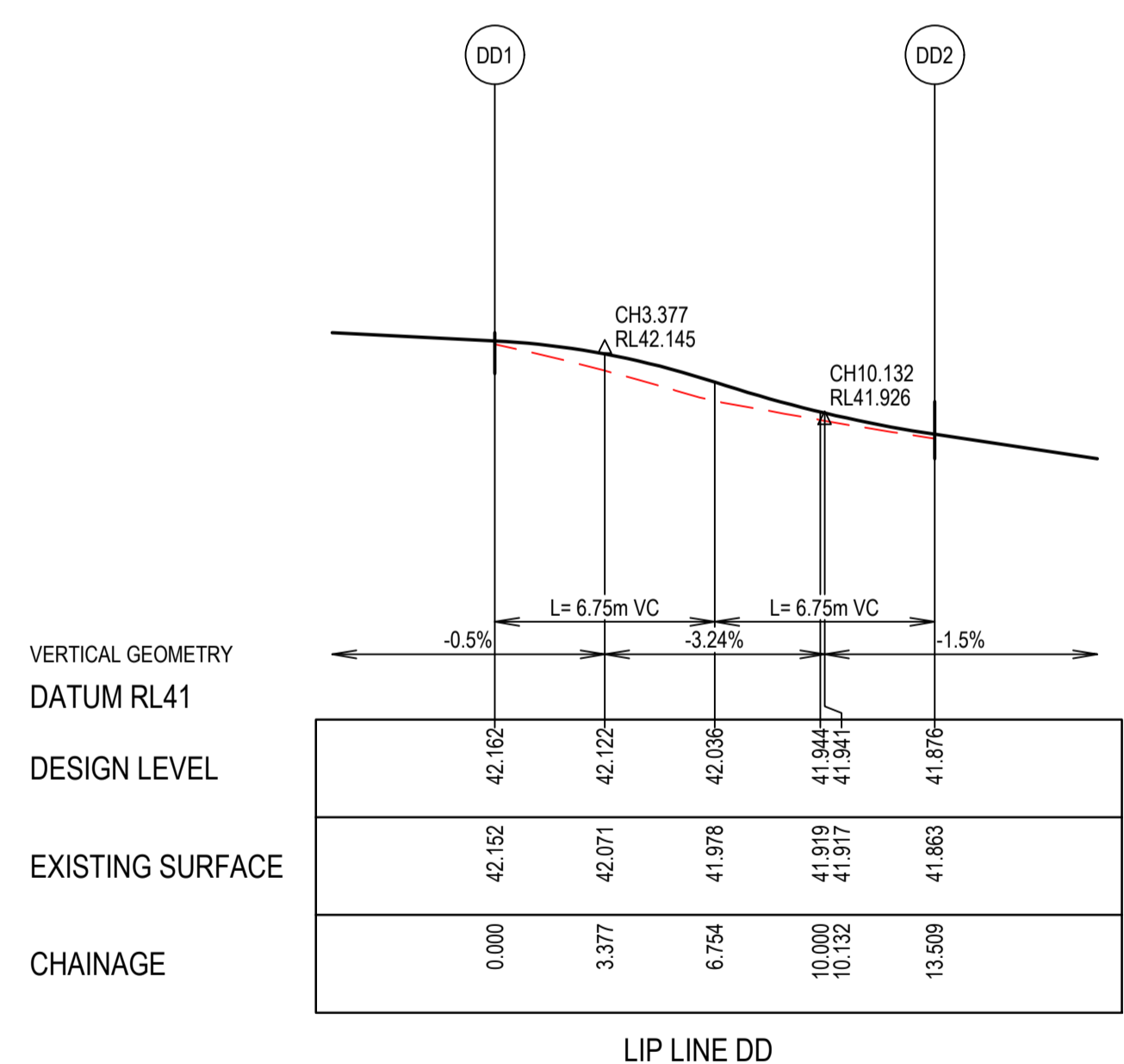


**LIP LINE CC**

Point no	Easting	Northing	RL
CC1	2523.201	271.246	42.230
CC2	2532.802	278.712	42.162

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
CC1 - CC2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	42.196



**LIP LINE DD**

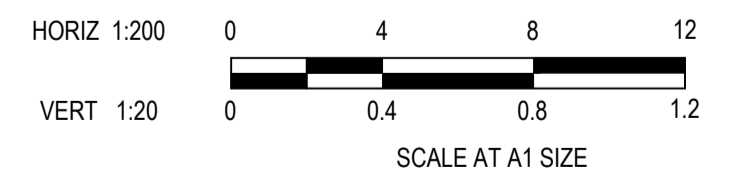
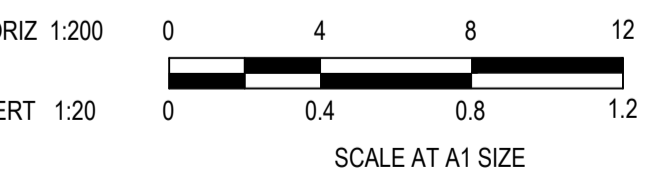
Point no	Easting	Northing	RL
DD1	2539.152	277.918	42.162
DD2	2546.618	268.317	41.876

Curve no	L	Radius	Arc	A	B	X	Y	I	Mid point RL
DD1 - DD2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	42.036

**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	01.02.23	MF	MF					



Designed: C.DAWSON  
 Date: 28.10.2022  
 Drawn: L.SUTHERLAND  
 Checked: M.FELICIANO  
 Date: 21.11.2022  
 Approved: M.FELICIANO  
 Reg. No: PE0005645  
 Date: 21.11.2022  
 PS Number: PS906797B

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

Project: MERIDIAN CENTRAL ESTATE  
 STAGE 41  
 CITY OF CASEY  
 Drawing Title: INTERSECTION DETAILS

Sheet 17 of 23  
 Scale: 1:200 H 1:20 V @ A1  
 Project Ref: 1801767  
 Stage No: 41  
 Drawing No: 300  
 Rev: A

K:\Jobs Data\1801767 - Meridian\_Eng\Stage 41\Drawings\1801767-41-300-INT.dwg

# City of Casey

Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date : 19/04/2023  
 Council Drawing No.: R5956

**Approval subject to:**  
 - A free draining out being available prior to Statement of Compliance.  
 - Drainage in future Stages 42, 43 & 45 may be amended  
 - A TMP approved prior to commencement of works.  
 - An EMP approved prior to commencement of works.  
 - Relevant service authorities notification and approval

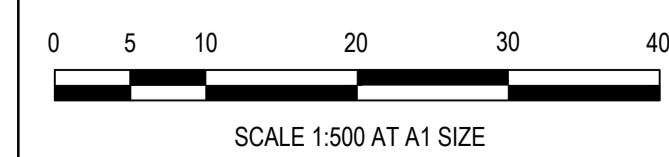
Signed: 



- NOTES**
1. RRPMS AT MAX 6m SPACING.
  2. LINEMARKING TO BE EXTENDED AT LEAST 6m FROM THE TANGENT POINT
  3. LINEMARKING IN ACCORDANCE WITH AS1742.
  4. TGS1 TO BE INSTALLED IN ACCORDANCE WITH AS1428.4 & VICROADS SUPPLEMENTARY STANDARD TEM Vol 2 Part 2.23
  5. ALL STREET NAME SIGNS AT INTERSECTIONS TO INCLUDE RELEVANT STREET NUMBERING.
  6. ALL LINE MARKING PAINT SHALL BE LONG LIFE TYPE. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.

**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN	APP	REV	DESCRIPTION	DATE	DRN	APP
B	COUNCIL COMMENTS	11.04.23	MF	MF					
A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					



Designed: C.DAWSON  
 Date: 28.10.2022  
 Drawn: L.SUTHERLAND  
 Checked: M.FELICIANO  
 Date: 21.11.2022  
 Approved: M.FELICIANO  
 Reg. No: PE0005645  
 Date: 21.11.2022  
 PS Number: PS906797B

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 www.beveridgewilliams.com.au

Project Details: MERIDIAN CENTRAL ESTATE  
 STAGE 41  
 CITY OF CASEY  
 Drawing Title: SIGNAGE & LINE MARKING PLANS

Sheet	18 of 23
Scale	1:500 @ A1
Project Ref	1801767
Stage No	41
Drawing No	350
Rev	B


# City of Casey

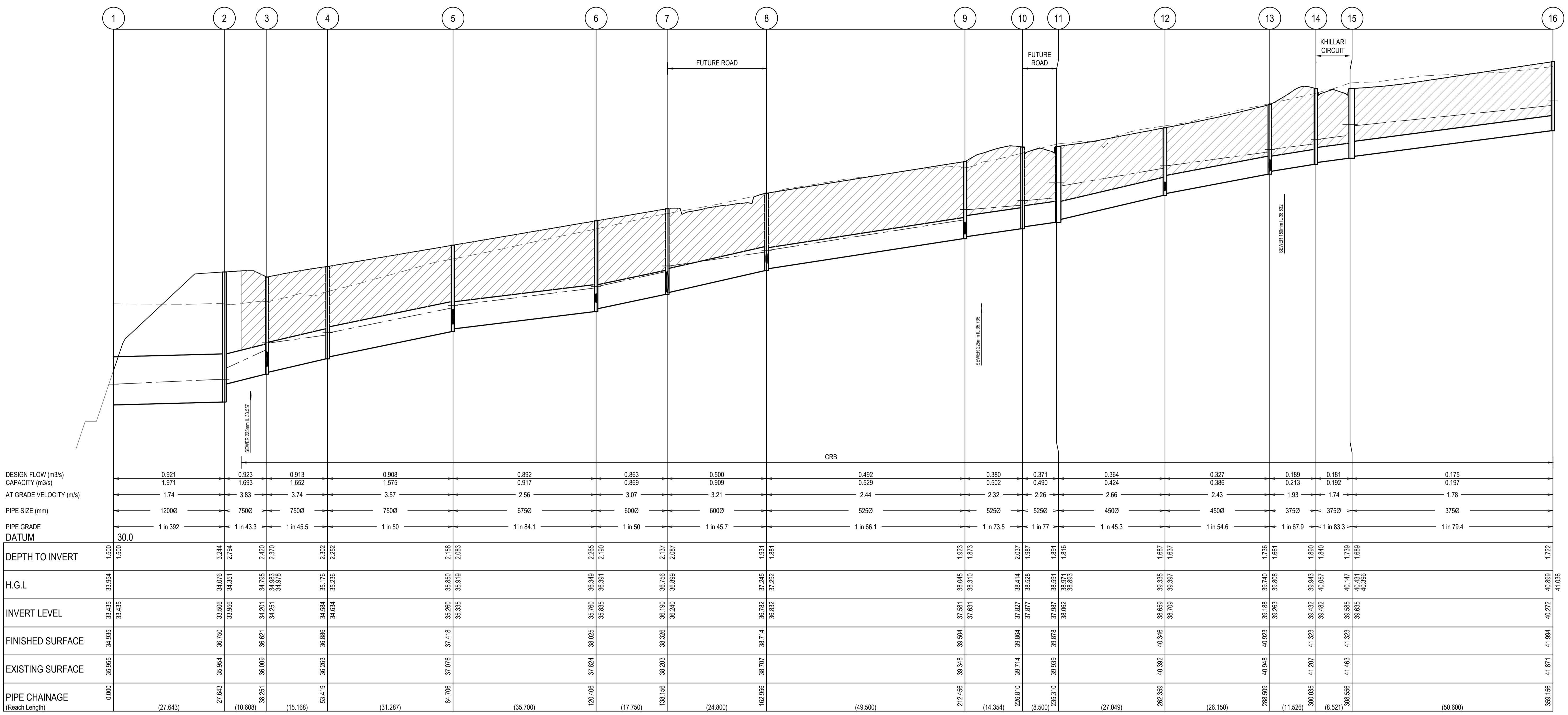
Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date : 19/04/2023  
 Council Drawing No.: R5956  
**Approval subject to:**  
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 - An EMP approved prior to commencement of works.  
 - Relevant service authorities notification and approval

Signed: 

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

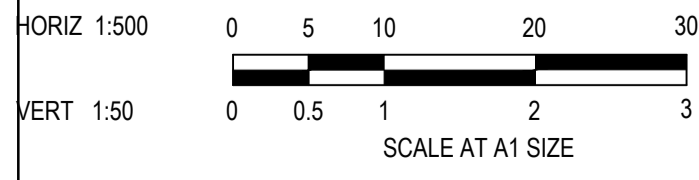
**LEGEND**

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



**ISSUED FOR CONSTRUCTION**

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					



Designed: C.DAWSON  
 Date: 28.10.2022  
 Drawn: L.SUTHERLAND  
 Checked: M.FELICIANO  
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 Approved: M.FELICIANO  
 Reg. No: PE0005645  
 Date: 21.11.2022  
 PS Number: PS906797B

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 www.beveridgewilliams.com.au

Project Details: MERIDIAN CENTRAL ESTATE  
 STAGE 41  
 CITY OF CASEY

Drawing Title: DRAINAGE LONGITUDINAL SECTIONS  
 (SHEET 1 OF 4)

Sheet 19 of 23  
 Scale: 1:500 H 1:50 V @ A1  
 Project Ref: 1801767  
 Stage No: 41  
 Drawing No: 400  
 Rev: A

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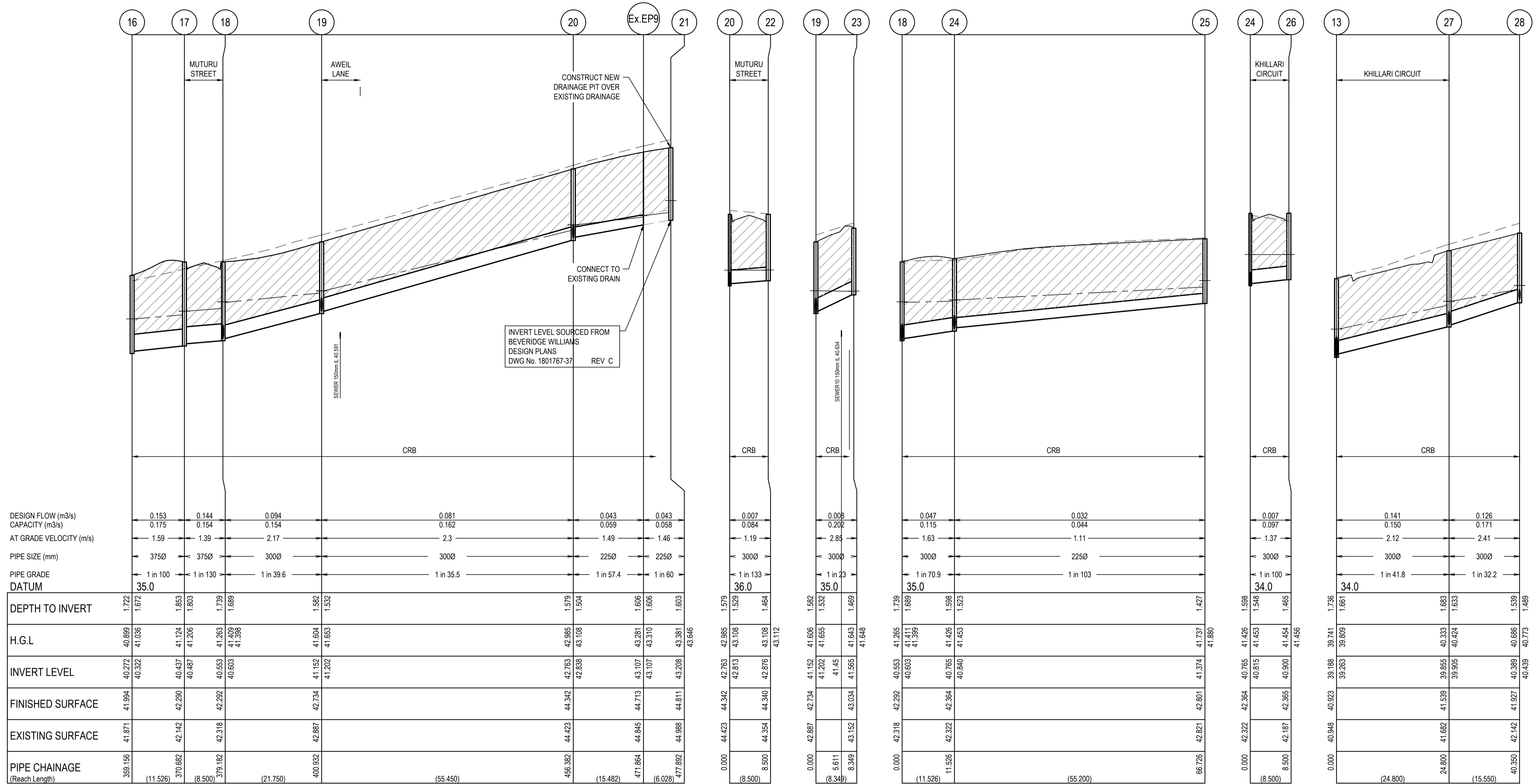
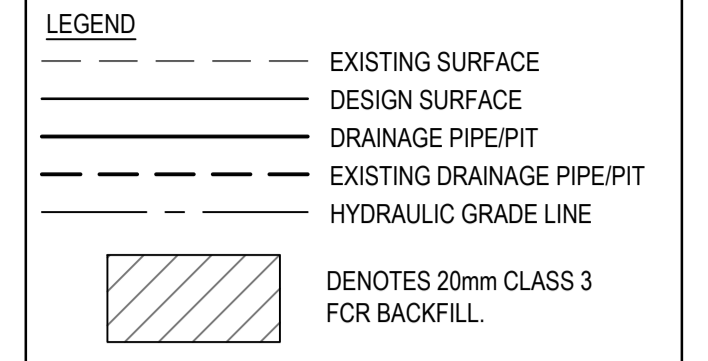
# City of Casey

Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date : 19/04/2023  
 Council Drawing No.: R5956

**Approval subject to:**  
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 - Relevant service authorities notification and approval

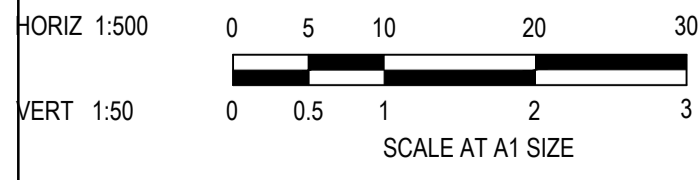
Signed: 

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



ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					



Designed: C.DAWSON  
 Date: 28.10.2022  
 Drawn: L.SUTHERLAND  
 Checked: M.FELICIANO  
 Date: 21.11.2022  
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 Reg. No.: PE0005645  
 Date: 21.11.2022  
 PS Number: PS906797B

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Project Details: MERIDIAN CENTRAL ESTATE  
 STAGE 41  
 CITY OF CASEY

Drawing Title: DRAINAGE LONGITUDINAL SECTIONS (SHEET 2 OF 4)

Sheet	20 of 23
Scale	1:500 H 1:50 V @ A1
Project Ref	1801767
Stage No	41
Drawing No	401
Rev	A

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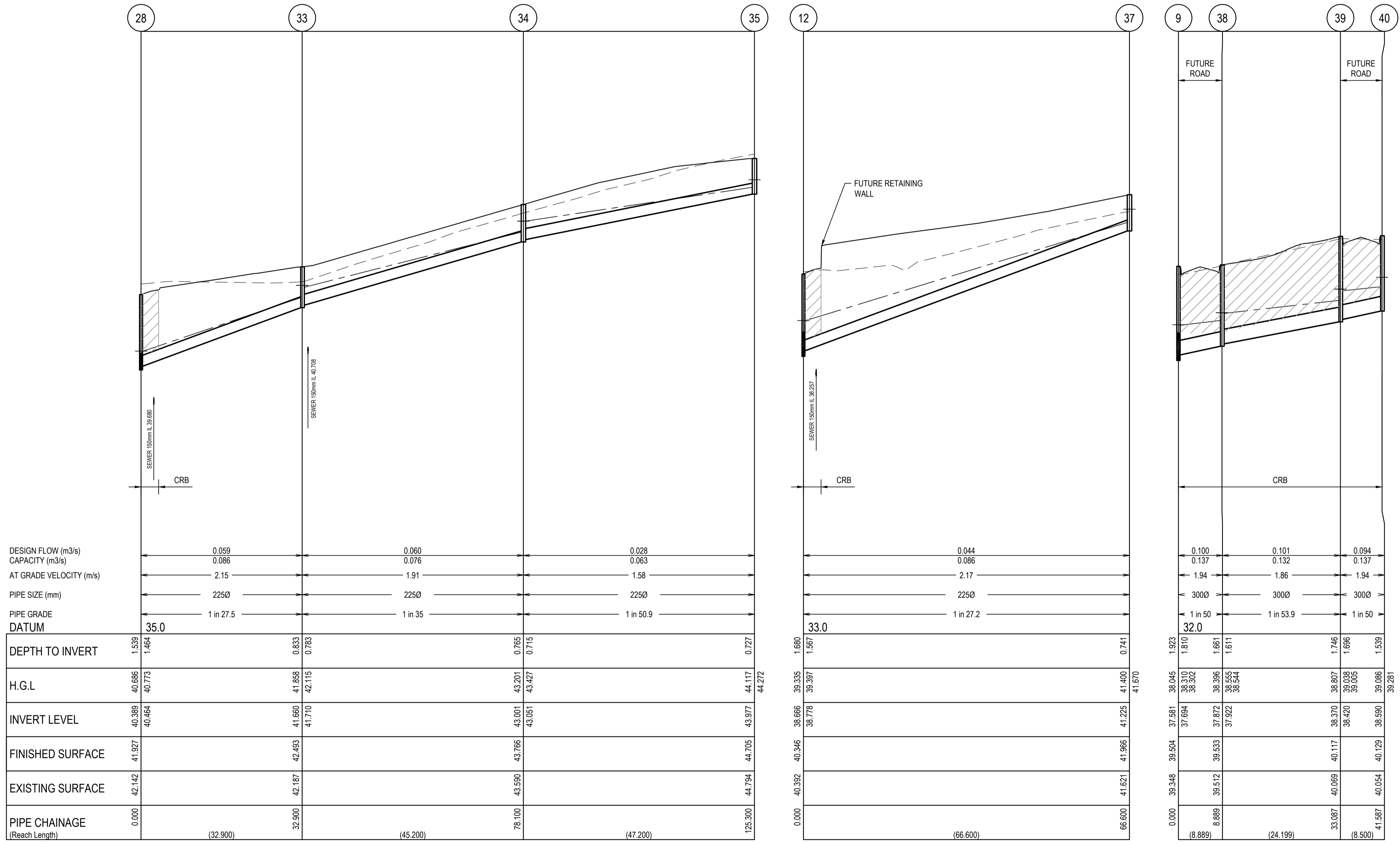
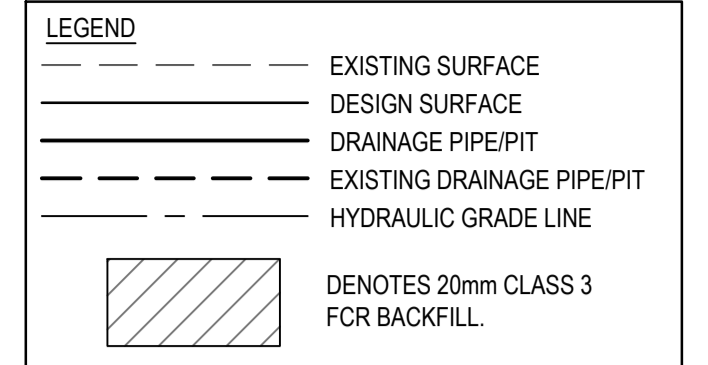
# City of Casey

Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date : 19/04/2023  
 Council Drawing No.: R5956

**Approval subject to:**  
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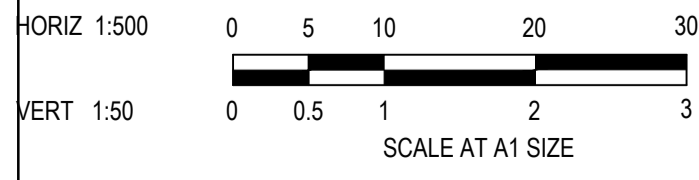
**NOTES:**  
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ISSUED FOR CONSTRUCTION

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REV	DESCRIPTION	DATE	DRN	APP.	REV	DESCRIPTION	DATE	DRN	APP.
A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					



Designed C.DAWSON  
 Date 28.10.2022  
 Drawn L.SUTHERLAND  
 Checked M.FELICIANO  
 Date 21.11.2022  
 Approved M.FELICIANO  
 Reg. No. PE0005645  
 Date 21.11.2022  
 PS Number PS906797B



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Project Details  
 MERIDIAN CENTRAL ESTATE  
 STAGE 41  
 CITY OF CASEY  
 Drawing Title  
 DRAINAGE LONGITUDINAL SECTIONS  
 (SHEET 3 OF 4)


Sheet	21 of 23
Scale	1:500 H 1:50 V @ A1
Project Ref	1801767
Stage No	41
Drawing No	402
Rev	A

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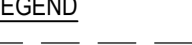

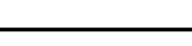
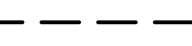
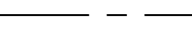

# City of Casey

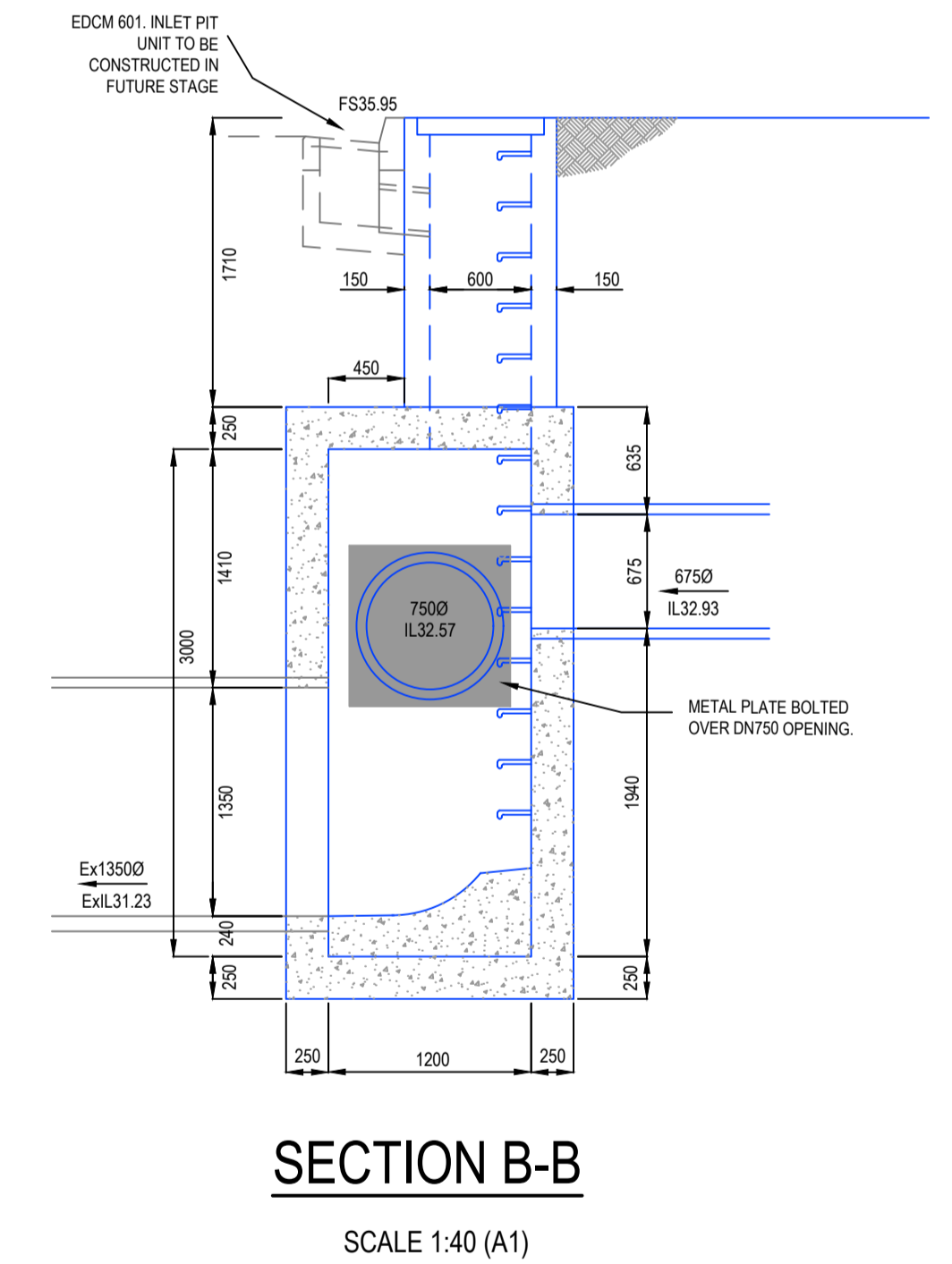
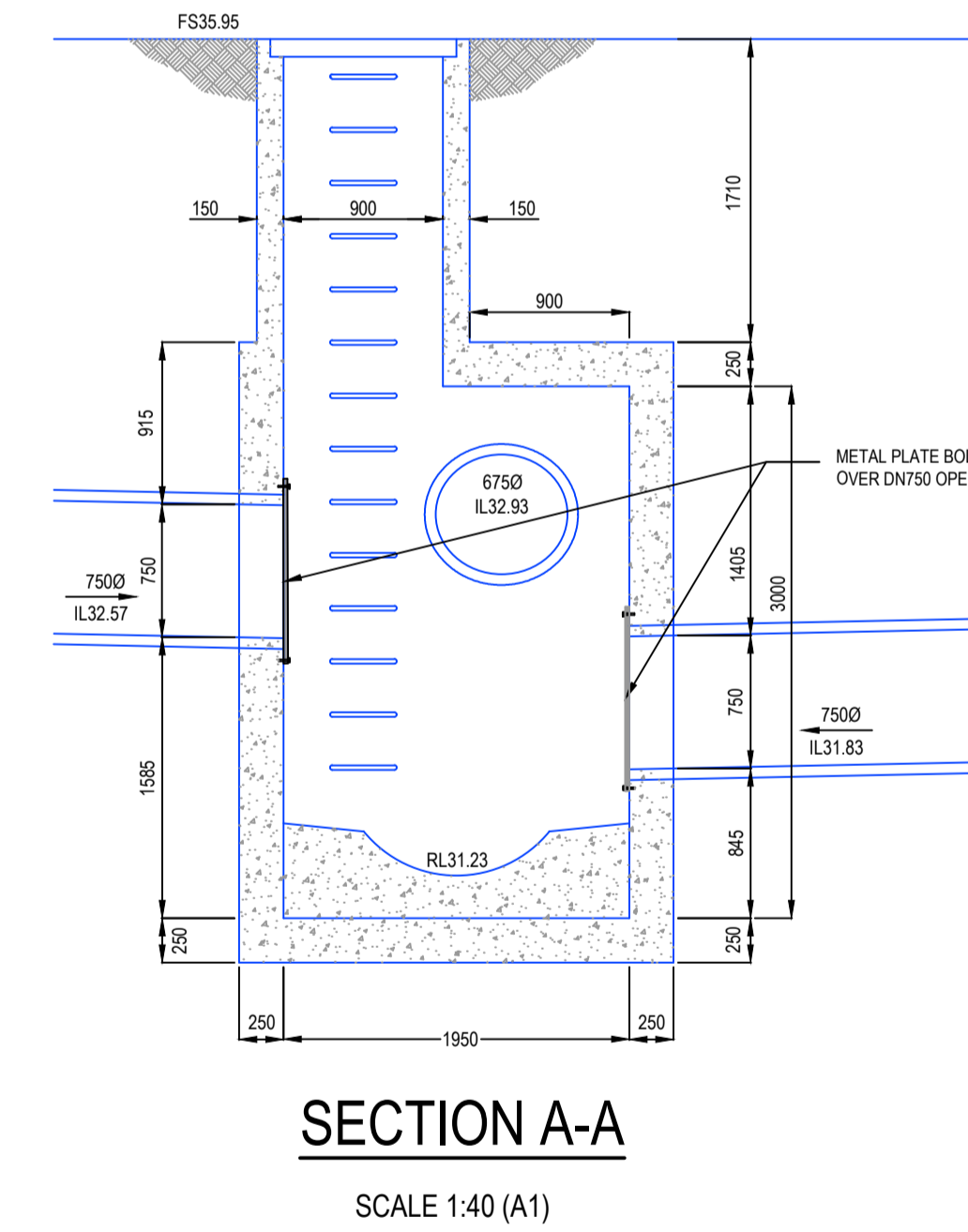
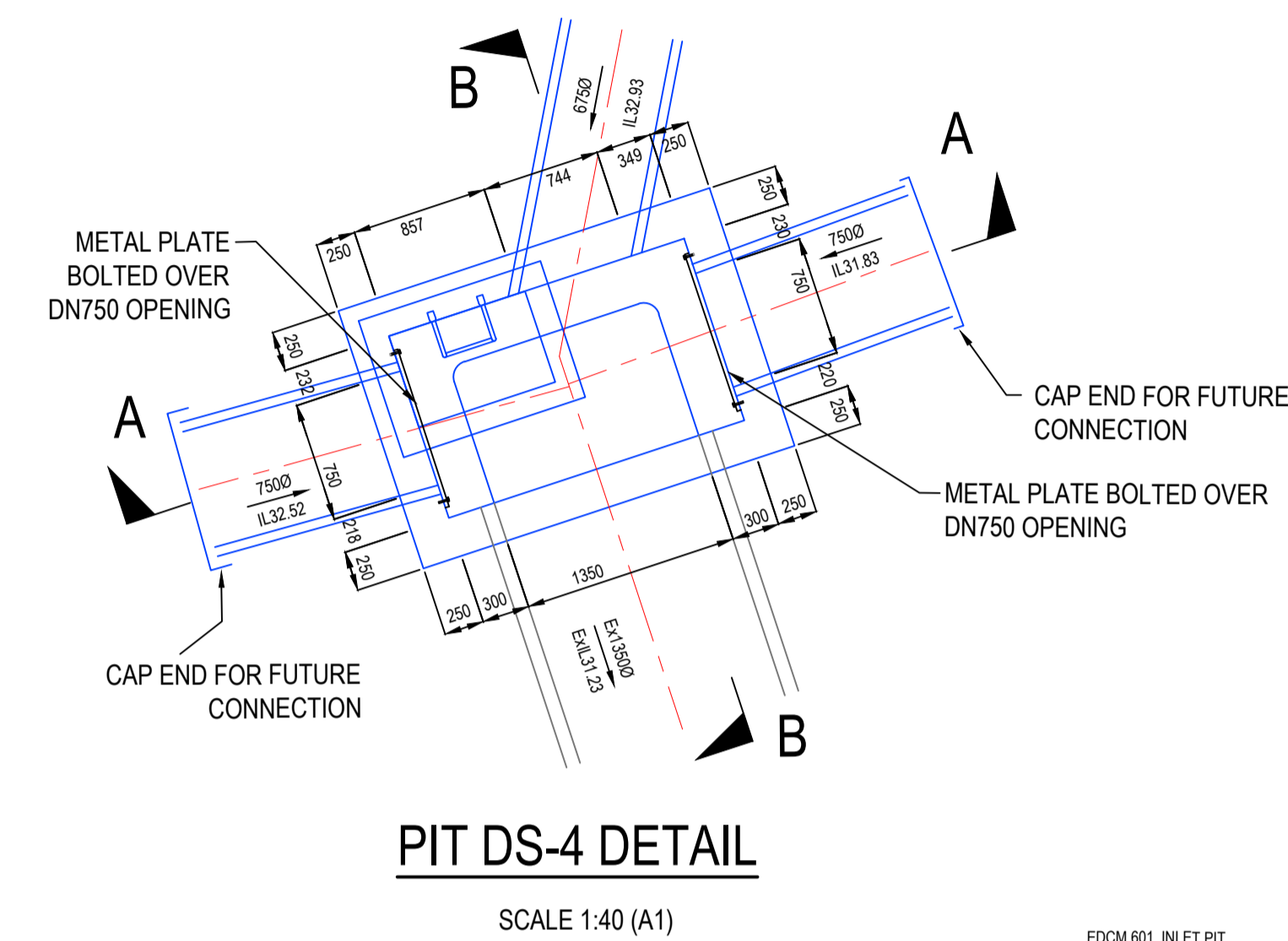
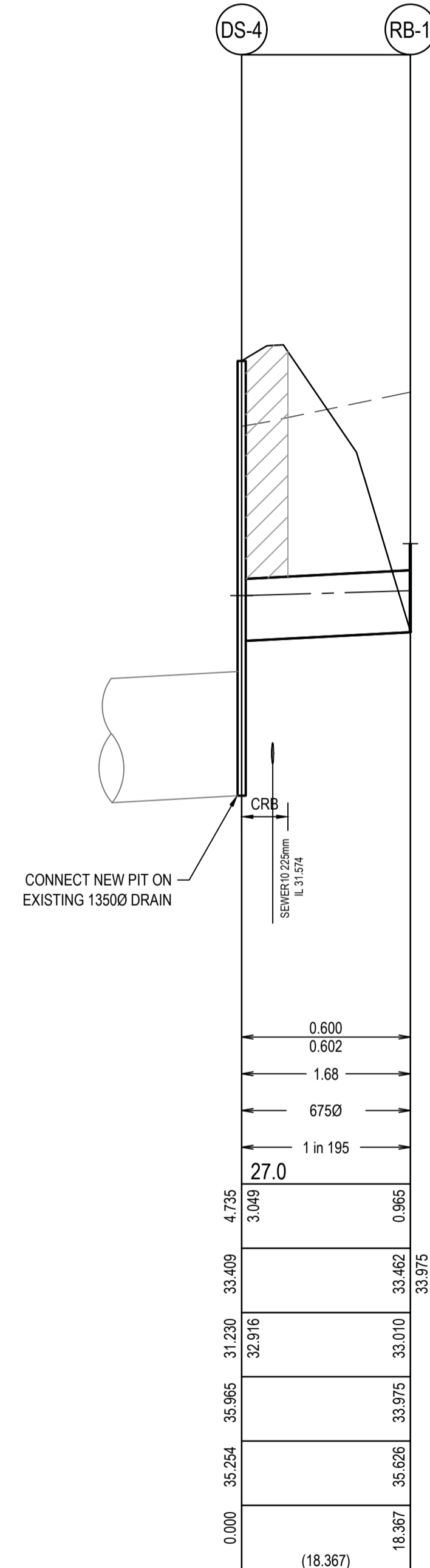
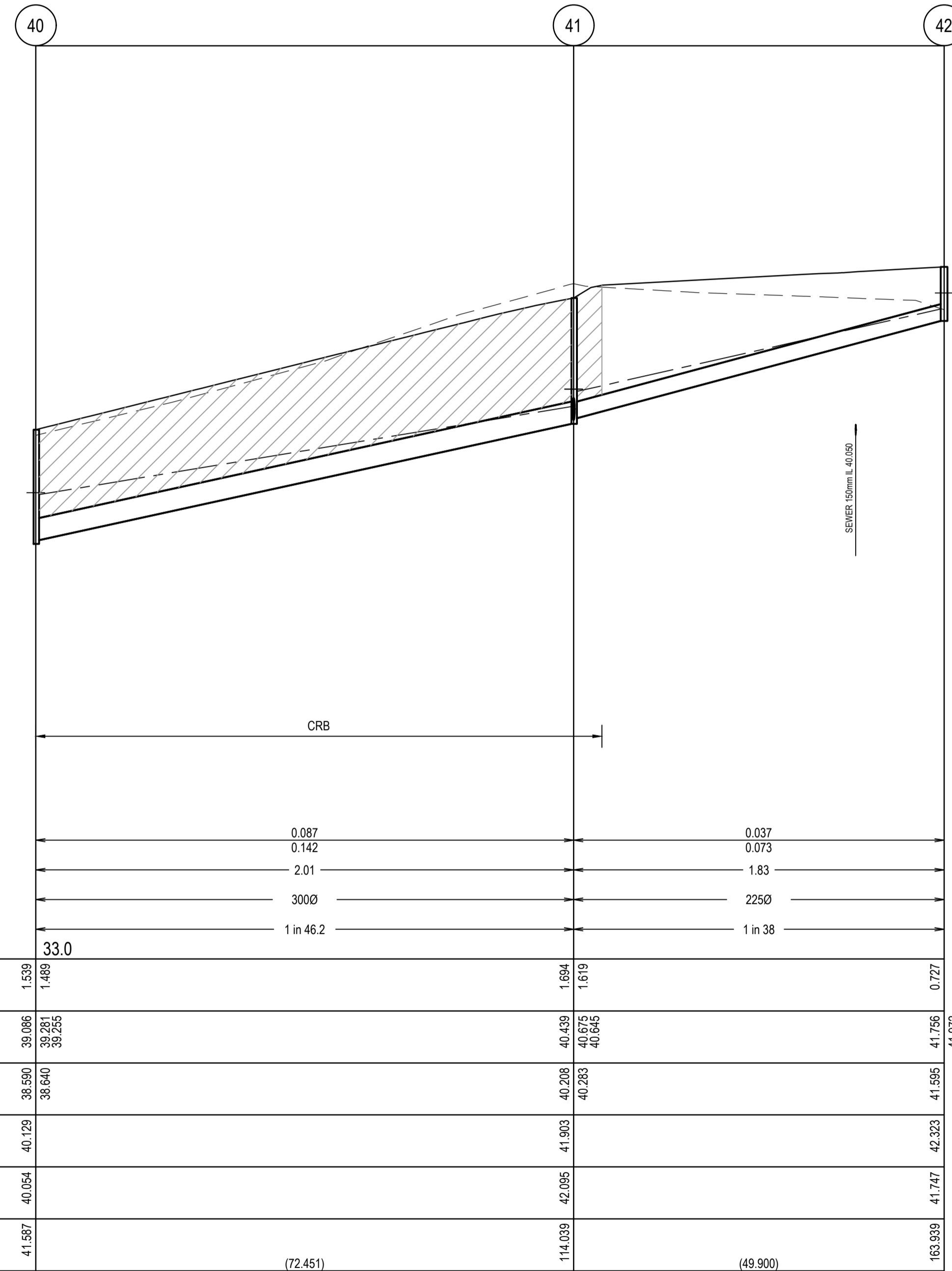
Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date: 19/04/2023  
 Council Drawing No.: R5956

Approval subject to:  
 - A free draining out being available prior to Statement of Compliance.  
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Signed: 

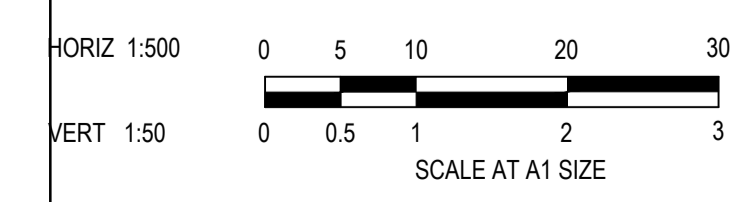
NOTES:  
 ALL STORMWATER DRAINS UP TO AND INCLUDING 750mm DIA. ARE TO BE CLASS 2 R.R.J. PIPES UNLESS NOTED OTHERWISE.

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



ISSUED FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRN.	APP.	REV	DESCRIPTION	DATE	DRN.	APP.
A	ISSUED FOR CONSTRUCTION	01.02.23	MF	MF					



Designed	C.DAWSON
Date	28.10.2022
Drawn	L.SUTHERLAND
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Project Details	MERIDIAN CENTRAL ESTATE STAGE 41 CITY OF CASEY
Drawing Title	DRAINAGE LONGITUDINAL SECTIONS (SHEET 4 OF 4) AND PIT DETAILS

Sheet	22 of 23
Scale	1:500 H 1:50 V @ A1
Project Ref	1801767
Stage No	41
Drawing No	403
Rev	A

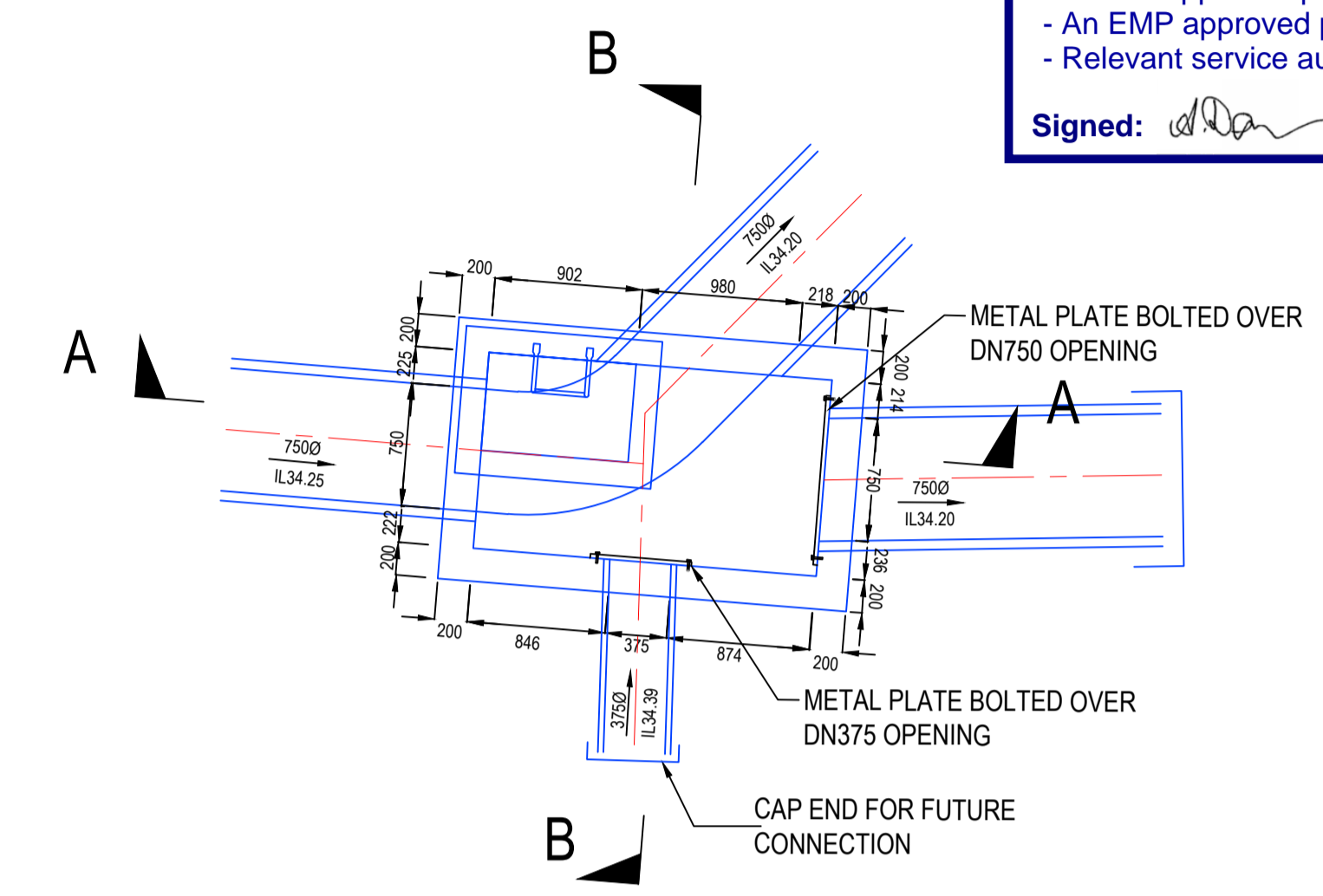
# City of Casey

Approved By: Ange Dean  
 Planning Ref: PA21-0174  
 File No: SEng00300/22  
 Date : 19/04/2023  
 Council Drawing No.: R5956

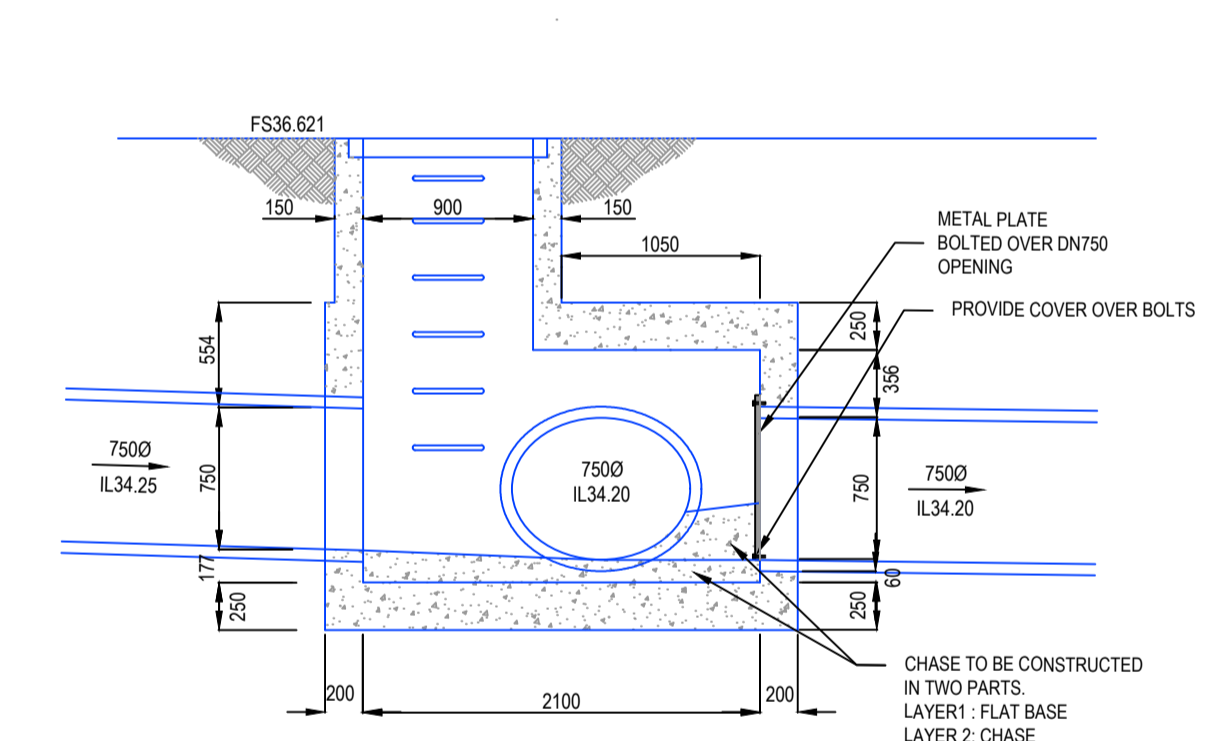
**Approval subject to:**  
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Signed: *[Signature]*

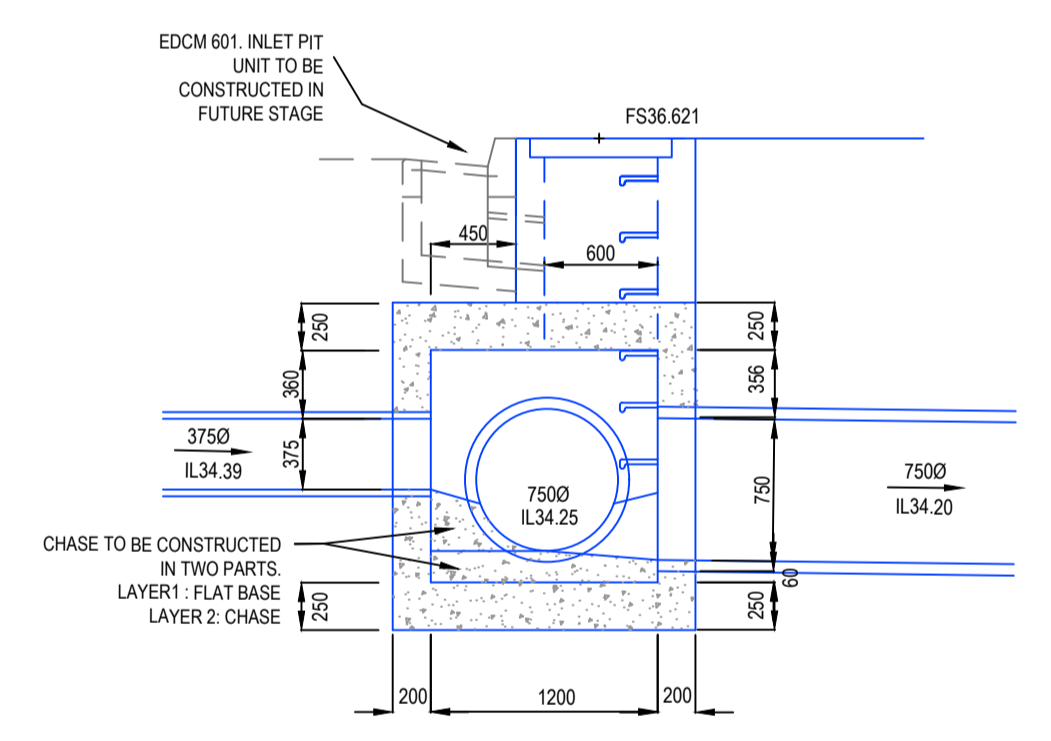
PIT NAME	PIT TYPE	INTERNAL		INLET		OUTLET		PIT		STD DWG	REMARKS
		WIDTH	LENGTH	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH		
1	MASS CONCRETE ENDWALL	-	-			1200	33.435	34.935	1.500	VICROADS SD1821	INSTALL ROCKBEACHING FOR INLET PIPE TO TEMPORARY RETARDING BASIN
2	JUNCTION PIT	600(T)	900(T)	750	33.956	1200	33.506	36.750	3.244	EDCM 607	
		600(B)	1500(B)								
3	DOUBLE GRATED SIDE ENTRY PIT	600(T)	900(T)	750	34.251	750	34.201	36.621	2.420	EDCM 602/607	HAUNCH UNDER ROAD. PROVIDE TEMPORARY PIT COVER
		1200(B)	1500(B)	375	34.388						REFER THIS SHEET FOR PIT DETAILS
4	DOUBLE GRATED SIDE ENTRY PIT	600(T)	900(T)	750	34.634	750	34.584	36.886	2.302	EDCM 602/607	HAUNCH UNDER ROAD. PROVIDE TEMPORARY PIT COVER
		1050(B)	900(B)								
5	DOUBLE GRATED SIDE ENTRY PIT	600(T)	900(T)	675	35.335	750	35.260	37.42	2.16	EDCM 602/607	HAUNCH UNDER ROAD. PROVIDE TEMPORARY PIT COVER
		1050(B)	900(B)	375	35.448						
6	GRATED SIDE ENTRY PIT	600(T)	900(T)	600	35.835	675	35.760	38.03	2.27	EDCM 601 / 607	HAUNCH UNDER ROAD. PROVIDE TEMPORARY PIT COVER
		900(B)	900(B)	225	35.985						
7	GRATED SIDE ENTRY PIT	600(T)	900(T)	600	36.240	600	36.190	38.33	2.14	EDCM 601 / 607	HAUNCH UNDER ROAD. PROVIDE TEMPORARY PIT COVER
		900(B)	1050(B)	525	36.240						
8	GRATED SIDE ENTRY PIT	600(T)	900(T)	525	36.832	600	36.782	38.71	1.93	EDCM 601/607	HAUNCH UNDER ROAD. PROVIDE TEMPORARY PIT COVER
		900(B)	900(B)	300	36.932						
9	JUNCTION PIT	600(T)	900(T)	525	37.631	525	37.581	39.50	1.92	EDCM 607	HAUNCH UNDER ROAD. PROVIDE TEMPORARY PIT COVER
		1050(B)	900(B)	300	37.694						
10	GRATED SIDE ENTRY PIT	600(T)	900(T)	525	37.877	525	37.827	39.86	2.04	EDCM 601/607	HAUNCH UNDER ROAD. PROVIDE TEMPORARY PIT COVER
		1050(B)	900(B)								
11	GRATED SIDE ENTRY PIT	600	900	450	38.062	525	37.987	39.87	1.89	EDCM 601/605	PROVIDE TEMPORARY PIT COVER
12	JUNCTION PIT	600	900	450	38.709	450	38.659	40.35	1.68	EDCM 605	PROVIDE TEMPORARY PIT COVER
				225	38.772						
13	JUNCTION PIT	600	900	375	39.263	450	39.188	40.92	1.74	EDCM 605	PROVIDE TEMPORARY PIT COVER
				300	39.263						
14	GRATED SIDE ENTRY PIT	600	900	375	39.482	375	39.432	41.32	1.89	EDCM 601/605	PROVIDE TEMPORARY PIT COVER
15	GRATED SIDE ENTRY PIT	600	900	375	39.635	375	39.585	41.32	1.74	EDCM 601/605	PROVIDE TEMPORARY PIT COVER
16	JUNCTION PIT	600	900	375	40.322	375	40.272	41.99	1.72	EDCM 605	
17	GRATED SIDE ENTRY PIT	600	900	375	40.487	375	40.437	42.29	1.85	EDCM 601/605	
18	GRATED SIDE ENTRY PIT	600	900	300	40.603	375	40.553	42.29	1.74	EDCM 601/605	
				300	40.603						
19	GRATED SIDE ENTRY PIT	600	900	300	41.202	300	41.152	42.73	1.58	EDCM 601/605	
				300	41.202						
20	GRATED SIDE ENTRY PIT	600	900	225	42.838	300	42.763	44.34	1.58	EDCM 601/605	
				300	42.813						
Ex.EP9	END PIPE			225	43.107	225	43.107	44.71	1.61		CONNECT TO EXISTING END PIPE
21	JUNCTION PIT	600	900			225	43.208	44.81	1.60		CONSTRUCT NEW DRAINAGE PIT OVER EXISTING DRAINAGE
22	GRATED SIDE ENTRY PIT	600	900			300	42.876	44.34	1.46	EDCM 601/605	
23	GRATED PIT	600	900			300	41.565	43.03	1.47	EDCM 605	INSTALL "BIKE SAFE" 600x900 ECO-WEAVED V-GRATE OR APPROVED EQUIVALENT & FRAME TO SUIT
24	GRATED SIDE ENTRY PIT	600	900	225	40.840	300	40.765	42.36	1.60	EDCM 601/605	
				300	40.815						
25	JUNCTION PIT	600	900			225	41.374	42.80	1.43	EDCM 605	
26	GRATED SIDE ENTRY PIT	600	900			300	40.900	42.37	1.47	EDCM 601/605	
27	GRATED SIDE ENTRY PIT	600	900	300	39.905	300	39.855	41.54	1.68	EDCM 601/605	PROVIDE TEMPORARY PIT COVER
				300	39.905						
28	JUNCTION PIT	600	900	300	40.439	300	40.389	41.93	1.54	EDCM 605	PROVIDE TEMPORARY PIT COVER
				225	40.464						
33	JUNCTION PIT	600	900	225	41.710	225	41.660	42.49	0.83	EDCM 605	
34	JUNCTION PIT	600	900	225	43.051	225	43.001	43.77	0.77	EDCM 605	
35	JUNCTION PIT	600	900			225	43.977	44.71	0.73	EDCM 605	
37	JUNCTION PIT	600	900			225	41.225	41.97	0.74	EDCM 605	
38	JUNCTION PIT	600	900	300	37.922	300	37.872	39.53	1.66	EDCM 605	PROVIDE TEMPORARY PIT COVER
39	GRATED SIDE ENTRY PIT	600	900	300	38.420	300	38.370	40.12	1.75	EDCM 601/605	PROVIDE TEMPORARY PIT COVER
40	GRATED SIDE ENTRY PIT	600	900	300	38.640	300	38.590	40.13	1.54	EDCM 601/605	PROVIDE TEMPORARY PIT COVER
41	GRATED SIDE ENTRY PIT	600	900	225	40.283	300	40.208	41.90	1.69	EDCM 601/605	PROVIDE TEMPORARY PIT COVER
				300	40.258						
42	JUNCTION PIT	600	900			225	41.595	42.32	0.73	EDCM 605	
DS-4	JUNCTION PIT	600(T)	900(T)	675	32.916	Ex1350	Ex31.23	35.97	4.74	EDCM 608	REFER PIT DETAILS ON SHEET 403. HAUNCH UNDER ROAD. PROVIDE TEMPORARY PIT COVER
		1200(B)	1950(B)	750	32.570						
				750	31.830						
RB-1	MASS CONCRETE ENDWALL	-	-			675	33.010	33.98	0.97	VICROADS SD1821	INSTALL ROCKBEACHING FOR OUTLET PIPE OF TEMPORARY RETARDING BASIN



**PIT 3 DETAIL**  
 SCALE 1:40 (A1)



**SECTION A-A**  
 SCALE 1:40 (A1)



**SECTION B-B**  
 SCALE 1:40 (A1)

**ISSUED FOR CONSTRUCTION**

DESIGNED	C.DAWSON	28.10.2022
DRAWN	L.SUTHERLAND	
CHECKED	M.FELICIANO	21.11.2022
APPROVED	M.FELICIANO	21.11.2022
PS NUMBER	PS906797B	



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Project Details	MERIDIAN CENTRAL ESTATE STAGE 41 CITY OF CASEY
Drawing Title	PIT SCHEDULE AND PIT DETAILS

Sheet	23 of 23
Scale	AS SHOWN
Project Ref	1801767
Stage No	41
Drawing No	404
Rev	B