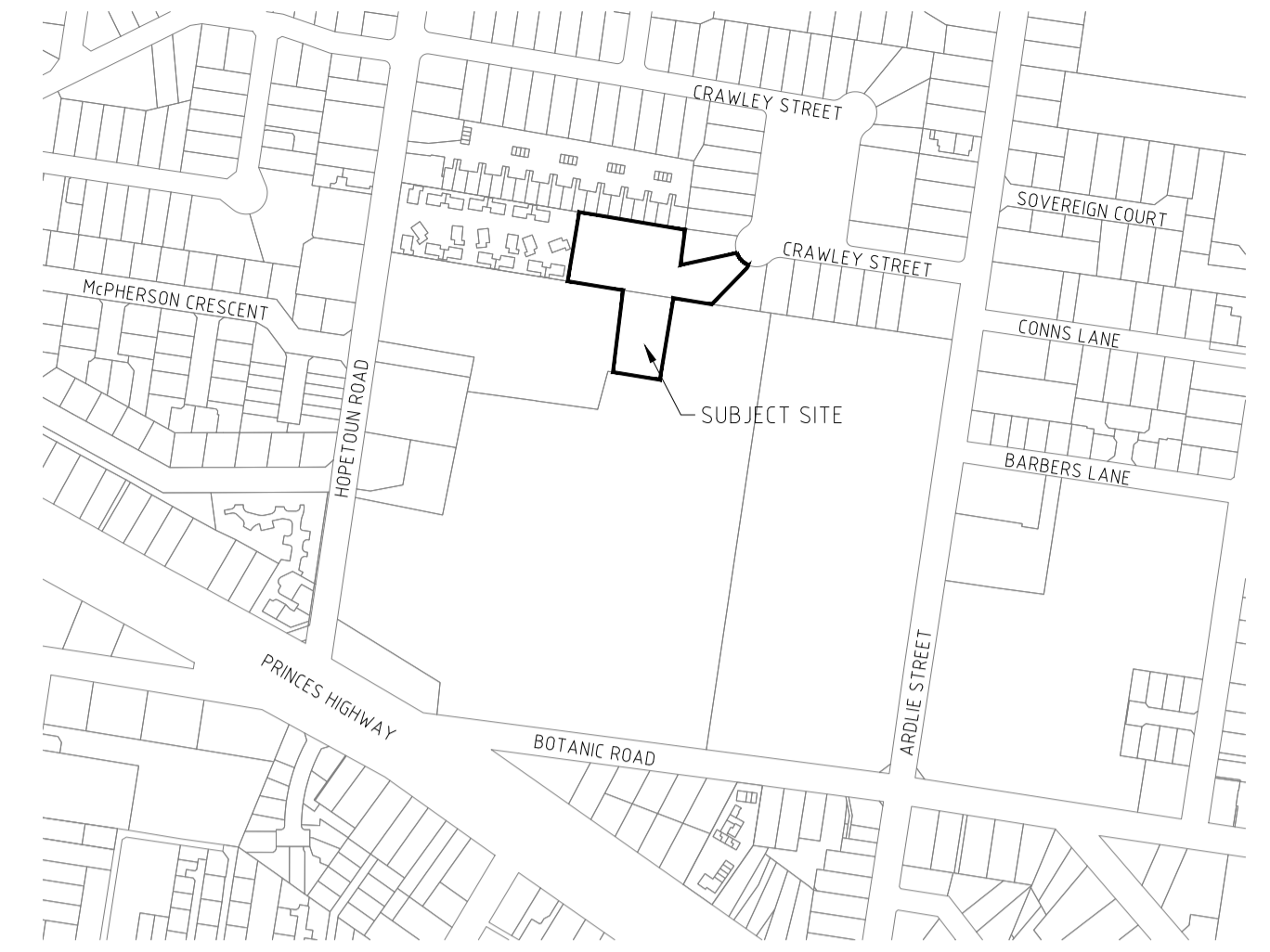


PLANNING and ENVIRONMENT ACT
Warrnambool PLANNING SCHEME

PERMIT NO. PA2201869

ENDORSED PLAN
Sheet 1 of 9

Signed: *[Signature]* for
MINISTER FOR PLANNING
Date: 16/6/2023



LOCALITY PLAN
SCALE 15,000

LEGEND	PROPOSED	EXISTING
AREA OF ROOF		
DRAINAGE CATCHMENT BOUNDARY		
DRAINAGE CATCHMENT No.	CAT-22A XYZ m ²	
EASEMENTS		
STORMWATER DRAIN-DETAIL CHARGED		
STORMWATER DRAIN-DETAIL GRAVITY		
DOWNPIPES	DP	
ARCHITECTS EXISTING SEWER		
ARCHITECTS EXISTING STORMWATER DRAIN-INDICATIVE		



YEAR 9 CENTRE LAYOUT PLAN
SCALE 1500

EARTHWORKS - GENERAL

- E 1 Unless otherwise noted all vegetation and topsoil containing organic matter shall be stripped to a minimum depth of 300mm under all pavement and building areas.
- E 2 All uncontrolled fill material shall be material approved by the Superintendent and the Council Engineer and compacted in 150mm maximum compacted thickness layers. Prior to the placement of any fill material under buildings or pavements the exposed subgrade shall be compacted to 95% modified AASHO (AS 1289). Any soft or unsuitable material in the subgrade shall be removed and replaced with approved granular fill material.
- E 4 It is the responsibility of the contractor to adequately drain the site during all stages of construction.
- E 5 All cut batters to be 1 in 5 and all fill batters to be 1 in 5 unless otherwise shown.
- E 6 Grade evenly between finished surface spot levels shown on drawings. Where finished levels are not shown the surface shall be graded smoothly so that it will drain, and to match existing surfaces or structures.

EXPOSED ROCK FACE

- ERF 1 Exposed rock face shall be a clean uniform surface, without evidence of bucket teeth marks.
- ERF 2 Observation of exposed material which is not sandstone or limestone shall be referred to the engineer and an approved work method replacing unsuitable material with coloured cement stabilised sand, shall be in place before proceeding further.

GENERAL

- G 1 These drawings are to be read in conjunction with the project specification.
- G 2 All dimensions are in metres, unless otherwise noted.
- G 3 All dimensions and reduced levels must be verified on site before commencement of any work. Any discrepancy shall be referred to the Design Engineer before proceeding with the work.
- G 4 All dimensions shown are to edge of road or face of wall unless otherwise shown. The CSE Group drawings shall not be scaled.
- G 5 All levels are to A.H.D. vide Ausgeoid corrected GNSS observations obtained using the Smartnet Aus network of CORS receivers. Bearing datum - MGA 94 ZONE 54. This plan is to ground co-ordinates.
- G 6 Unless noted otherwise, underground service information is provided with a quality level 'C' (refer AS5488) and is based on Dial Before You Dig information and surface pit lid information only. There remains a high risk of damage to assets if relied upon. To avoid damage to underground assets the contractor shall verify by excavation the actual location of services prior to the commencement of construction.
- G 7 The contractor shall liaise directly with all service authorities and shall comply with all regulations concerned.
- G 8 All work within the road reserve shall be approved by the Municipal Council.

CHARGED STORMWATER NETWORK

- CSW 1 All pipework from eaves gutter to rain tank must be solvent cement jointed in accordance with manufacturers recommendations and must be water tight.
- CSW 2 All underground pipework must have minimum cover as shown below:
uPVC under concrete - 400mm cover.
uPVC under trafficked gravel areas - 600mm cover.
uPVC under non trafficked areas - 300mm cover.
- CSW 3 As the system is pressurised, pipe shall follow finished surface level with appropriate cover.

STORMWATER DRAINAGE

- SW 1 For excavations 1.5 m deep or deeper, the construction contractor shall submit a "Notice of Intention to Commence Excavation Operations in Trenches, Shafts and Tunnels" form to Worksafe. This shall be done 3 days prior to commencing any excavations.
- SW 2 All gravity stormwater pipes shall be either uPVC DWV S88 SCI, ribbed polypropylene RRI or reinforced concrete pipe RRI.
- SW 3 Pipe handling, trenching, laying, jointing & refilling is to be in accordance with the manufacturers recommendations.
- SW 4 Trenching backfill to be in accordance with ID18 SD-310 and pipe/conduit/cable manufacturers specification.
- SW 5 All pit covers to be class 'D' if located in pavement and class 'B' if located in reserves unless specified. Refer to stormwater pit schedule for pit details and cover types.
- SW 6 Refer to Infrastructure Design Manual standard drawing No SD-420 for Junction pit details.
- SW 7 Refer to Infrastructure Design Manual standard drawing No SD-455 for grated pit details.

CONCRETE

- C1 Minimum compressive strength shall be 25 Mpa at 28 days unless noted otherwise.

KERB & CHANNEL

- KC 1 Cross section details shall be as shown in Infrastructure Design Manual standard drawing No. SD 100
- KC 2 Construction joints shall be constructed at 2.50m spacings
- KC 3 75mm compacted layer of pavement material shall be placed under all kerb & channel
- KC 4 Sub-surface drains to be installed behind all kerbs unless noted otherwise. Sub-surface drains to be installed as per Infrastructure Design Manual Standards Drawing SD 145.

REFER LANDSCAPE ARCHITECTS DRAWINGS FOR SURFACE FINISHES, PLANTING & DETAILS

Sheet List Table	
Sheet Number	Sheet Title
C-01	YEAR 9 CENTRE LOCALITY PLAN, NOTES & LAYOUT
C-02	EXISTING CONTOURS
C-03	PROPOSED CONTOURS
C-04	CUT & FILL PLAN
C-11	WALKWAY LAYOUT
C-12	BUILDING LAYOUT PLAN
C-21	DRAINAGE LONGITUDINAL SECTION
C-31	PAVEMENT DETAILS
C-32	STORMWATER DETAILS

NOTE: UNDERGROUND SERVICES IN AREA OF CONSTRUCTION, CONTRACTOR TO LOCATE & DEPTH ALL SERVICES PRIOR TO CONSTRUCTION

REV.	DESCRIPTION	DATE
G	MINOR AMENDMENTS FOR TENDER ISSUE	24/04/2023
F	TENDER ISSUE	21/04/2023
E	TENDER ISSUE	11/04/2023
D	ISSUED FOR TENDER COORDINATION	16/03/2023
C	DETAILED DESIGN ISSUE	27/02/2023
B	DESIGN DEVELOPMENT ISSUE	5/10/2022
A	ISSUED FOR COMMENT	28/09/2022

APPROVED

APPROVED

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DESIGNED	S. Brodie
DRAWN	A. Stevenson
SCALE	1:500
DATE	APRIL 2023

PROJECT TITLE
**YEAR 9 CENTRE AND CARPARK
EMMANUEL COLLEGE
BOTANIC ROAD, WARRNAMBOOL**

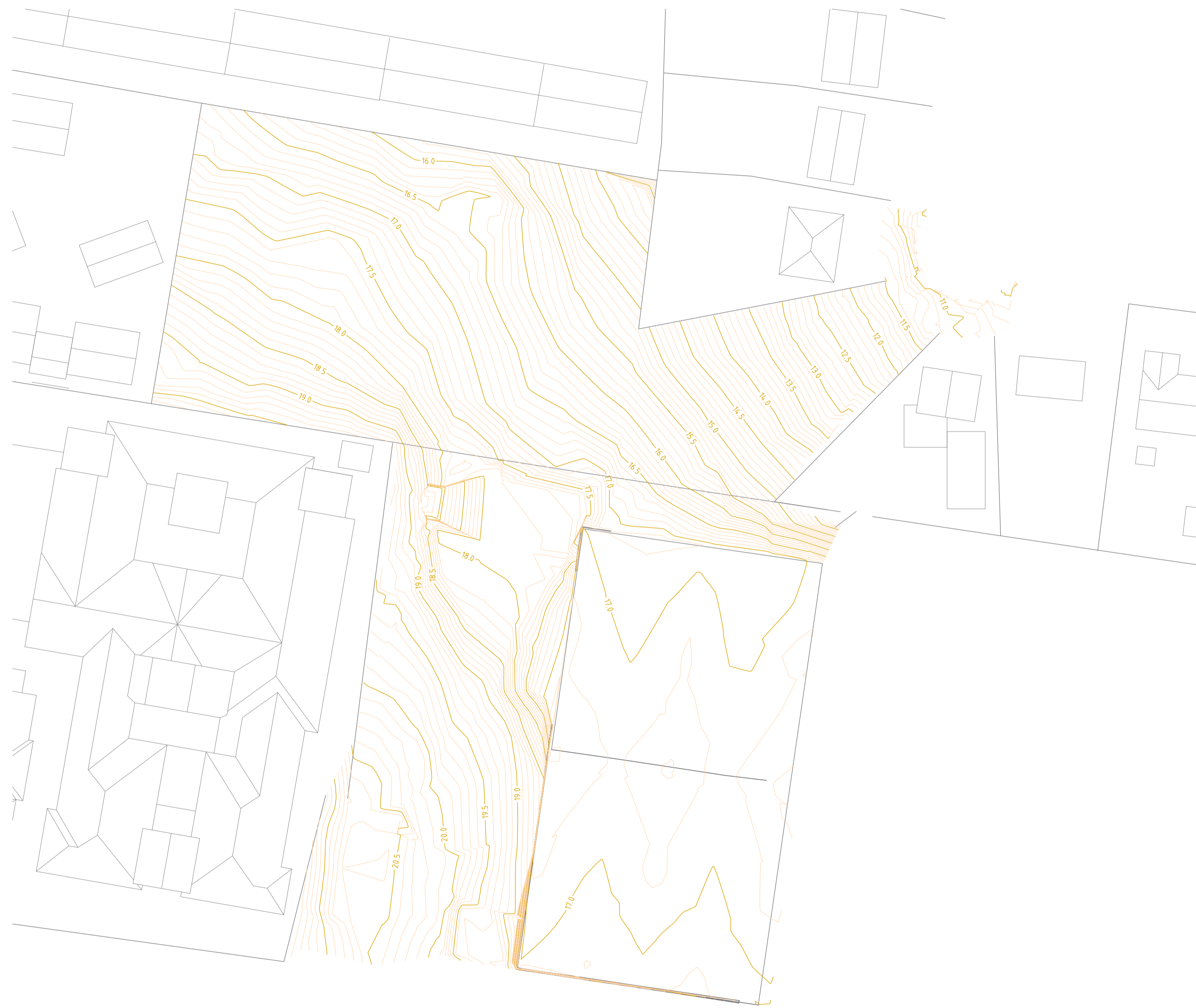
DRAWING TITLE
YEAR 9 CENTRE LOCALITY PLAN, NOTES & LAYOUT

NORTH

PROJECT No.
2022.152

SHEET
C-01

REV. G



PLANNING and ENVIRONMENT ACT
Warrnambool PLANNING SCHEME

PERMIT NO. PA2201869

ENDORSED PLAN
Sheet 2 of 9

Signed: *[Signature]* for
MINISTER FOR PLANNING
Date: 16/6/2023

LAYOUT PLAN
SCALE 1:500

G	MINOR AMENDMENTS FOR TENDER ISSUE	24/04/2023
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A	ISSUED FOR COMMENT	28/09/2022
REV.	DESCRIPTION	DATE

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SCALE	A1 1:500
DATE	APRIL 2023

PROJECT TITLE	YEAR 9 CENTRE AND CARPARK EMMANUEL COLLEGE BOTANIC ROAD, WARRNAMBOOL
DRAWING TITLE	EXISTING CONTOURS

N
↑
NORTH

PROJECT NO. 2022.152

SHEET C-02 REV. G



PLANNING and ENVIRONMENT ACT
Warrnambool PLANNING SCHEME

PERMIT NO. PA2201869

ENDORSED PLAN
Sheet 3 of 9

Signed: *B. Brodie* for
MINISTER FOR PLANNING
Date: 16/6/2023

NOTE: LEVELS PROVIDED ARE FINISHED LEVELS. NO ALLOWANCE HAS BEEN MADE FOR PAVEMENT AND SLAB THICKNESSES..

LAYOUT PLAN
SCALE 1:500

G	MINOR AMENDMENTS FOR TENDER ISSUE	24/04/2023
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REV.	DESCRIPTION	DATE

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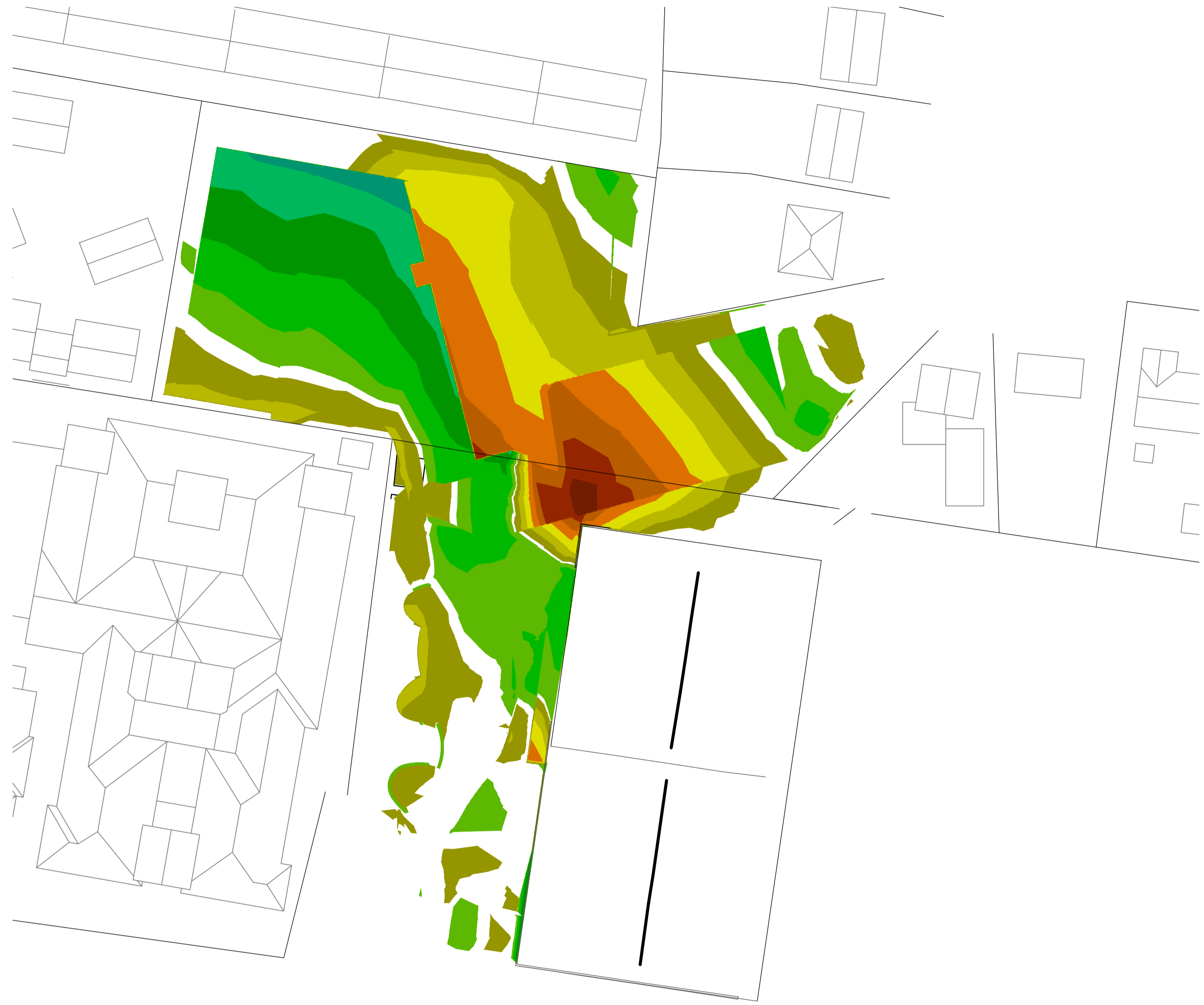
DESIGNED	S. Brodie
DRAWN	A. Stevenson
SCALE	A1 1:500
DATE	APRIL 2023

PROJECT TITLE	YEAR 9 CENTRE AND CARPARK EMMANUEL COLLEGE BOTANIC ROAD, WARRNAMBOOL
DRAWING TITLE	PROPOSED CONTOURS

N
↑
NORTH

PROJECT NO. 2022.152

SHEET C-03 REV. G



CUT & FILL LAYOUT PLAN
SCALE 1:500

NOTE: UNDERGROUND SERVICES IN AREA OF CONSTRUCTION, CONTRACTOR TO LOCATE & DEPTH ALL SERVICES PRIOR TO CONSTRUCTION

Levels Table				
No.	From Depth	To Depth	Colour	2D Area
1	-3.500	-3.000	Dark Red	28m ²
2	-3.000	-2.500	Red	118m ²
3	-2.500	-2.000	Orange	223m ²
4	-2.000	-1.500	Light Orange	473m ²
5	-1.500	-1.000	Yellow	528m ²
6	-1.000	-0.500	Light Green	714m ²
7	-0.500	-0.100	Green	1220m ²
8	0.100	0.500	Light Green	937m ²
9	0.500	1.000	Green	714m ²
10	1.000	1.500	Dark Green	451m ²
11	1.500	2.000	Dark Green	277m ²
12	2.000	2.500	Dark Green	63m ²

NOTE: LEVEL DIFFERENCES ARE TO FINISHED SURFACES. NO ALLOWANCE HAS BEEN MADE FOR PAVEMENT AND SLAB THICKNESSES..

SOIL TEST INVESTIGATION RESULTS	
APPRX DEPTHS	SOIL TYPE DESCRIPTION
200 - 350	BLACK SANDY TOPSOIL/RED FINE SAND
DEPTH VARIES BETWEEN 1200 & >2800	PLIESTOCENE DUNE LIMSTONE
BELOW LIMSTONE	SAND / SANDY CLAY

REFER - 2022.152 Soil Test Report Rev B for further information

- EARTHWORKS – GENERAL**
- E 1 Unless otherwise noted all vegetation and topsoil containing organic matter shall be stripped to a minimum depth of 300mm under all pavement and building areas.
 - E 2 All Uncontrolled fill material shall be material approved by the Superintendent and the Council Engineer and compacted in 150mm maximum compacted thickness layers. Prior to the placement of any fill material under buildings or pavements the exposed subgrade shall be compacted to 95% modified AASHO (AS 1289). Any soft or unsuitable material in the subgrade shall be removed and replaced with approved granular fill material.
 - E 4 It is the responsibility of the contractor to adequately drain the site during all stages of construction.
 - E 5 All cut batters to be 1 in 5 and all fill batters to be 1 in 5 unless otherwise shown.
 - E 6 Grade evenly between finished surface spot levels shown on drawings. Where finished levels are not shown the surface shall be graded smoothly so that it will drain, and to match existing surfaces or structures.
- STRUCTURAL CONTROLLED FILL ON RESIDENTIAL & COMMERCIAL SITES**
- CF 1 Structural controlled fill shall be placed in accordance with AS3798-2007 Guidelines on earthworks for commercial and residential developments.
 - CF 2 This specification shall only apply to residential and commercial developments of no more than two storeys with floor slab average imposed bearing pressure not exceeding 20kPa and strip or pad footings not exceeding imposed bearing pressures of 100kPa.
 - CF 3 The ground to be filled shall be stripped to design founding level and all unsuitable material such as organic soils, roots and vegetative matter, contaminated soils, silts, building rubble, uncontrolled fill and boulders shall be removed and disposed of away from the site.
 - CF 4 The insitu subgrade shall be shaped to assist drainage and the top 150mm shall be compacted to 95% minimum relative compaction (standard compaction) for residential sites and 98% minimum relative compaction (standard compaction) for commercial sites. Moisture content shall be maintained as close to optimum as practical whilst compaction is in progress.
 - CF 5 Imported fill shall be cohesionless, non-reactive material as approved by the Design Engineer with no contaminants and shall be placed at optimum moisture content, near horizontal and compacted in layers not exceeding 150mm in depth to 95% minimum relative compaction (standard compaction) for residential sites and 98% minimum relative compaction (standard compaction) for commercial sites.
 - CF 6 All layers, including the subgrade, shall be proof rolled with either a 12static smooth wheeled roller, 20T Pneumatic tyred roller or truck with 8T load on each axle. Any areas where visible deformation or springing is observed should be rectified and retested.
 - CF 7 In addition tests for compaction shall be conducted at the rate of 1 test per layer for every 1000 square metres or 1 test per 200 cubic metres of fill, whichever requires the most tests.

PLANNING and ENVIRONMENT ACT
Warrnambool PLANNING SCHEME
PERMIT NO. PA2201869
ENDORSED PLAN
Sheet 4 of 9
Signed: *[Signature]* for
MINISTER FOR PLANNING
Date: 16/6/2023

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APPROVED

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DESIGNED: S. Brodie
DRAWN: A. Stevenson
SCALE: A1 1:500
DATE: APRIL 2023

PROJECT TITLE
YEAR 9 CENTRE AND CARPARK
EMMANUEL COLLEGE
BOTANIC ROAD, WARRNAMBOOL

DRAWING TITLE
CUT & FILL PLAN

N
NORTH

PROJECT NO.
2022.152

SHEET
C-04

REV. G



NOTE: UNDERGROUND SERVICES IN AREA OF CONSTRUCTION, CONTRACTOR TO LOCATE & DEPTH ALL SERVICES PRIOR TO CONSTRUCTION

PLANNING and ENVIRONMENT ACT
Warrnambool PLANNING SCHEME
PERMIT NO. PA2201869
ENDORSED PLAN
Sheet 5 of 9
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MINISTER FOR PLANNING
Date: 16/6/2023

WALKWAY LAYOUT PLAN

SCALE 1:200

REV.	DESCRIPTION	DATE
G	MINOR AMENDMENTS FOR TENDER ISSUE	24/04/2023
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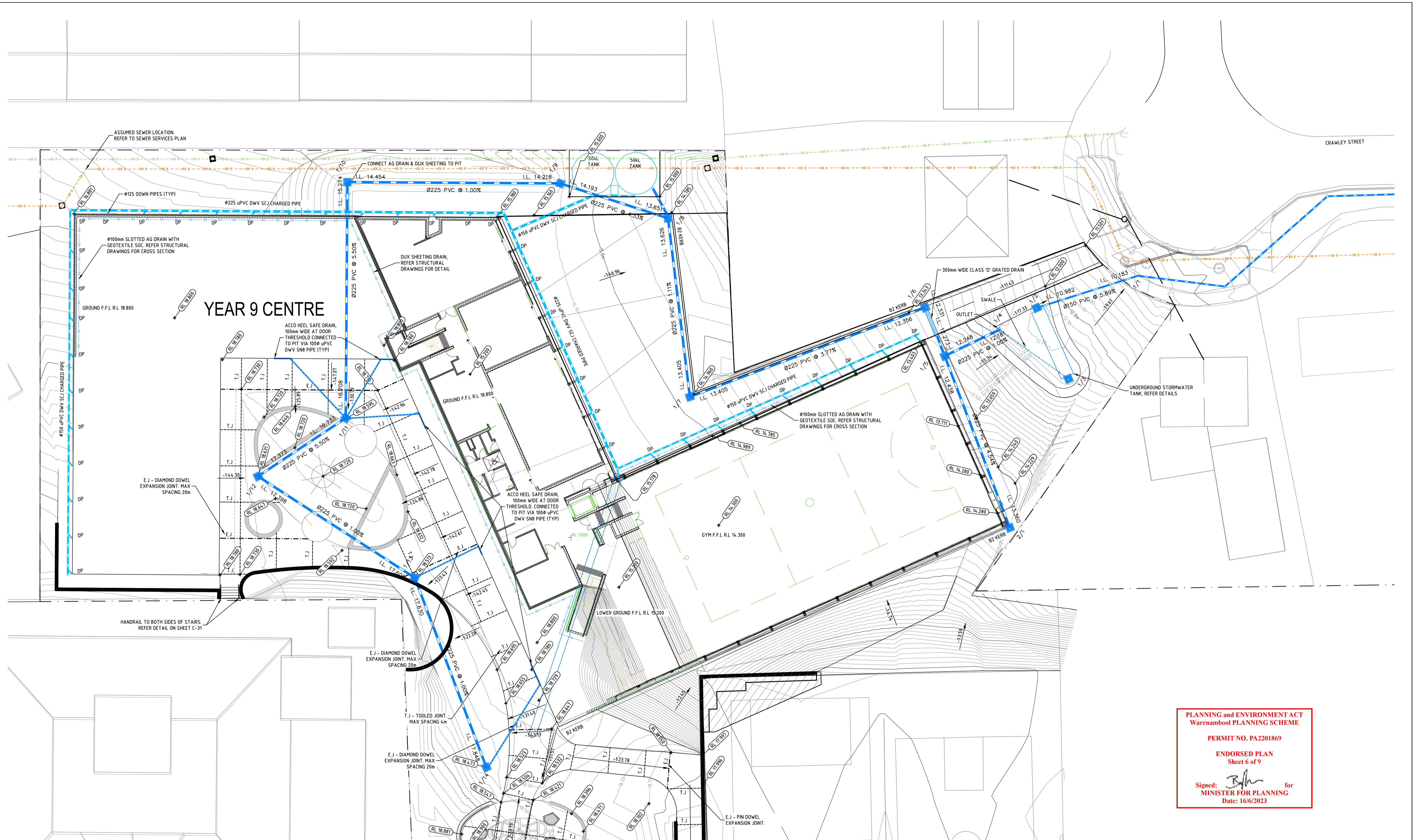
DESIGNED	S. Brodie
DRAWN	A. Stevenson
SCALE	1:200
DATE	APRIL 2023

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DRAWING TITLE	WALKWAY LAYOUT

NORTH

PROJECT No. 2022.152

SHEET C-11 REV. G



BUILDING LAYOUT PLAN
SCALE 1:200

NOTE: UNDERGROUND SERVICES IN AREA OF CONSTRUCTION, CONTRACTOR TO LOCATE & DEPTH ALL SERVICES PRIOR TO CONSTRUCTION

PLANNING and ENVIRONMENT ACT
Warrnambool PLANNING SCHEME

PERMIT NO. PA2201869

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Sheet 6 of 9

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SCALE	1:200
DATE	APRIL 2023

PROJECT TITLE	YEAR 9 CENTRE AND CARPARK EMMANUEL COLLEGE BOTANIC ROAD, WARRNAMBOOL
DRAWING TITLE	BUILDING LAYOUT PLAN

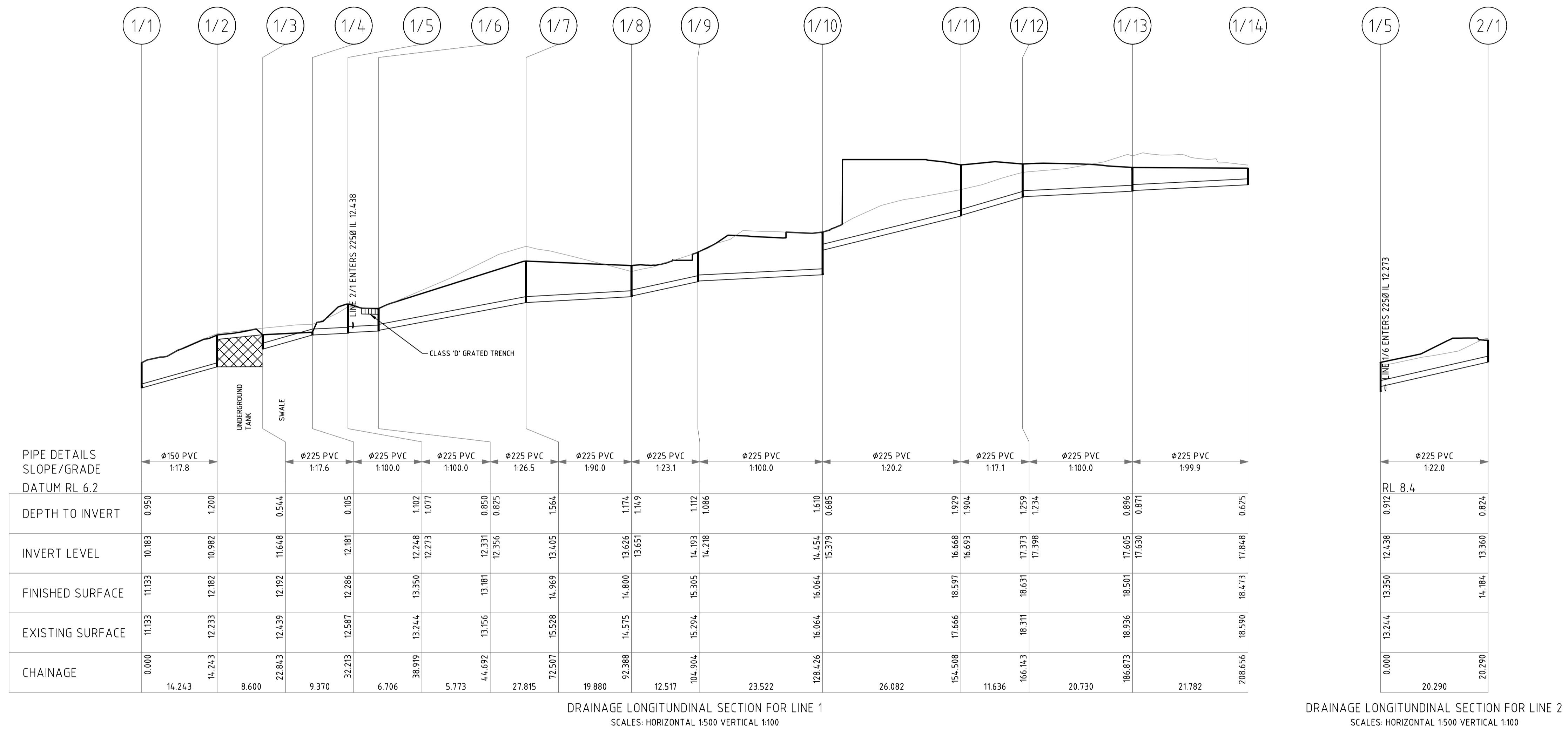
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PROJECT No.	2022.152
SHEET	C-12
REV.	G

PLANNING and ENVIRONMENT ACT
Warrnambool PLANNING SCHEME

PERMIT NO. PA2201869

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Sheet 7 of 9

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MINISTER FOR PLANNING
Date: 16/6/2023



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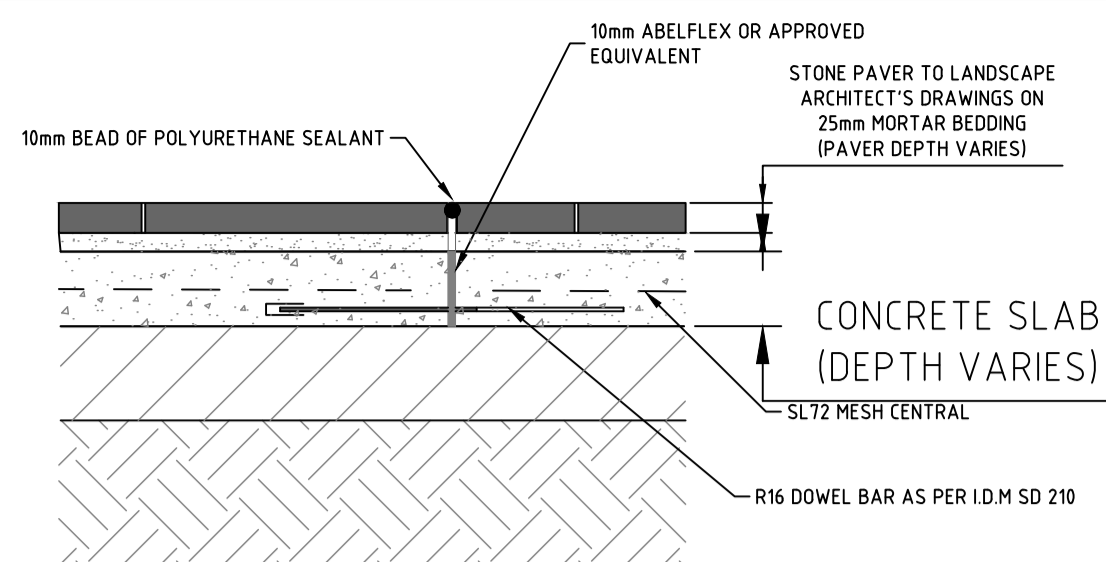
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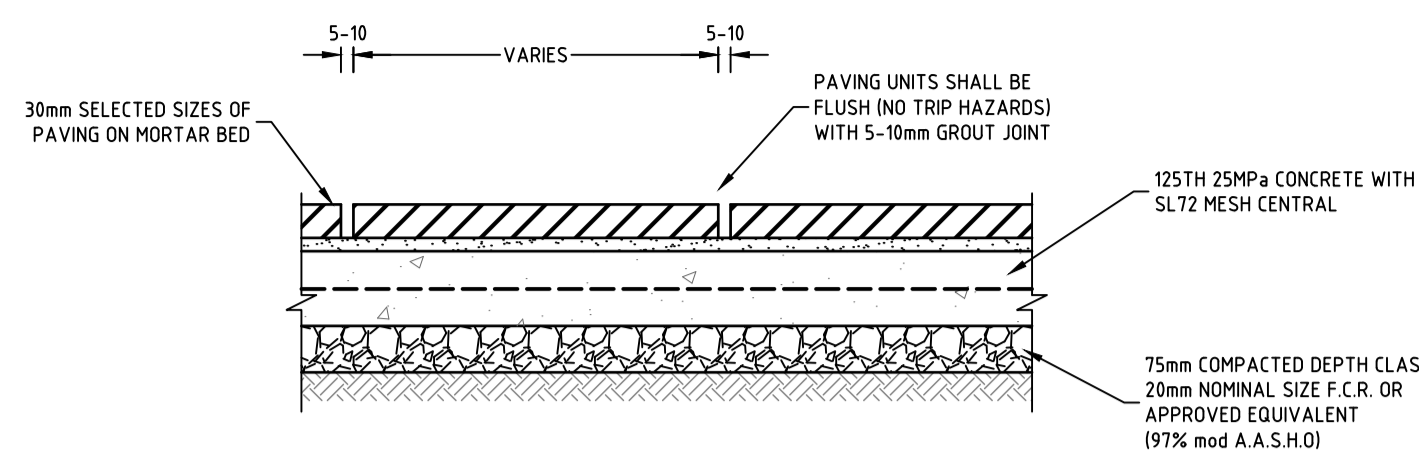
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DRAWN	A. Stevenson
SCALE	A1 AS SHOWN
DATE	APRIL 2023

PROJECT TITLE	YEAR 9 CENTRE AND CARPARK EMMANUEL COLLEGE BOTANIC ROAD, WARRNAMBOOL
DRAWING TITLE	DRAINAGE LONGITUDINAL SECTION

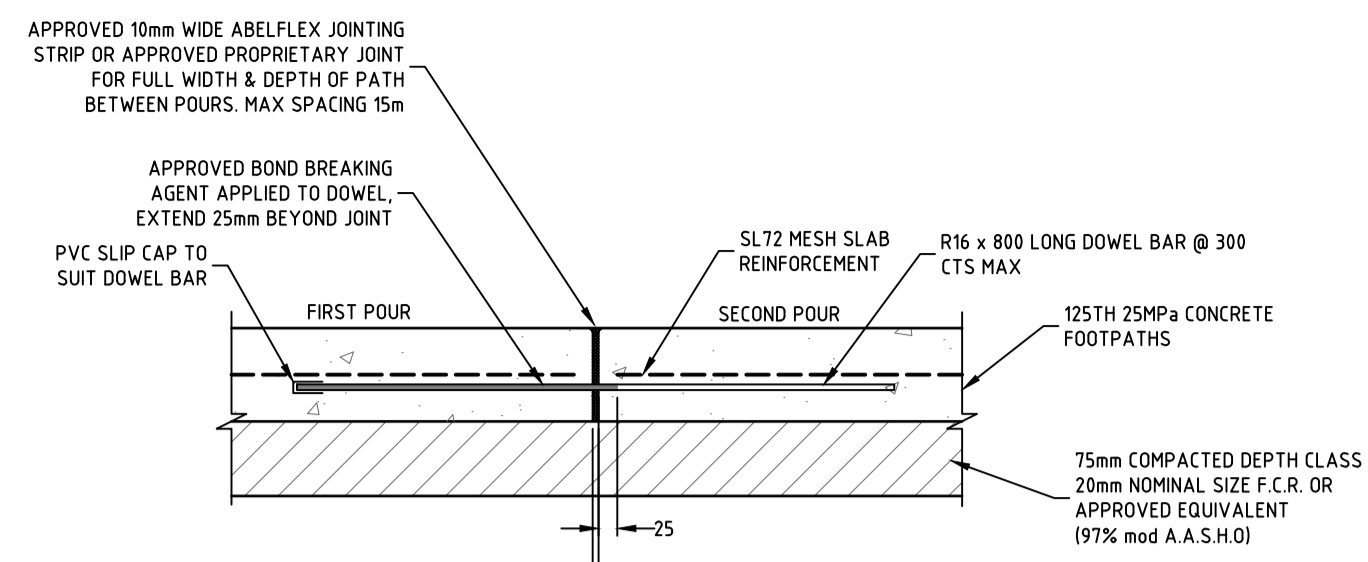
PROJECT No.	2022.152
SHEET	C-21
REV.	G



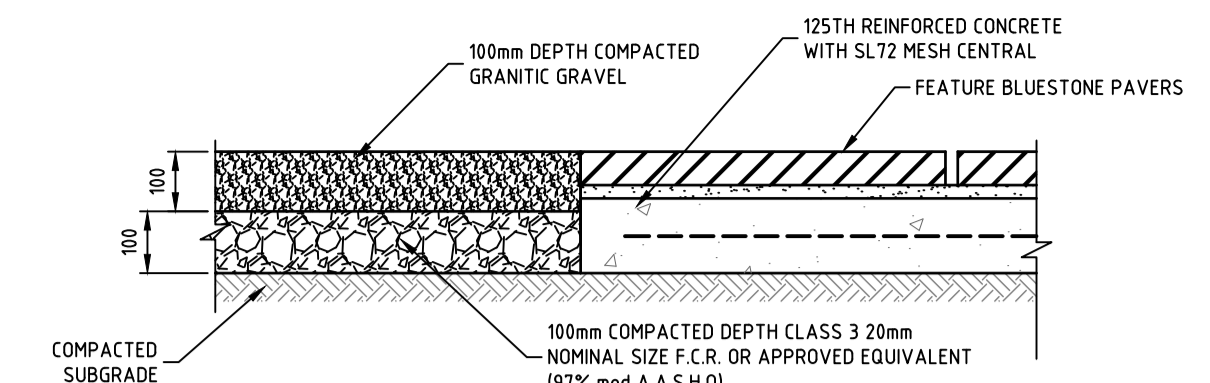
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SCALE 1:10 5m MIN SPACING



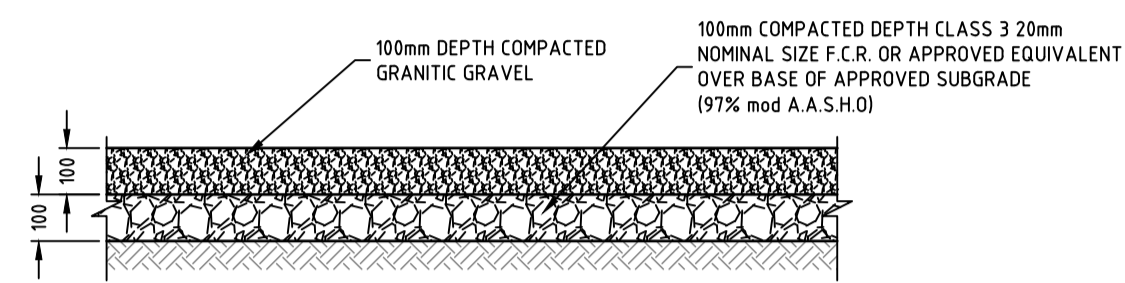
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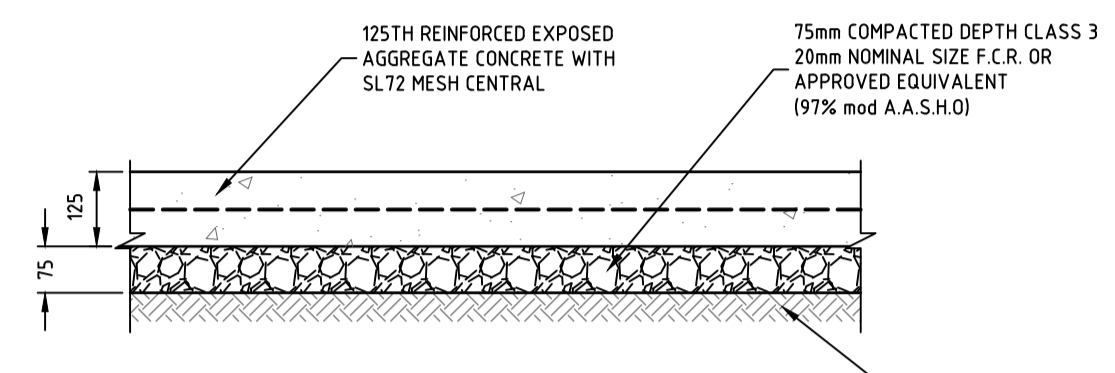
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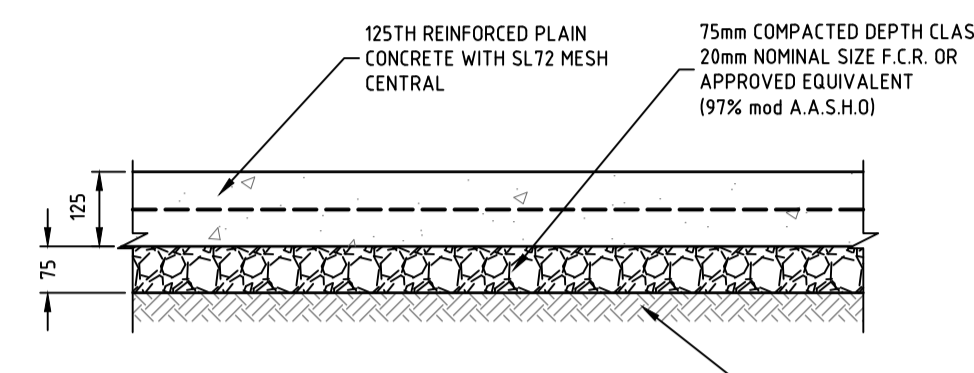
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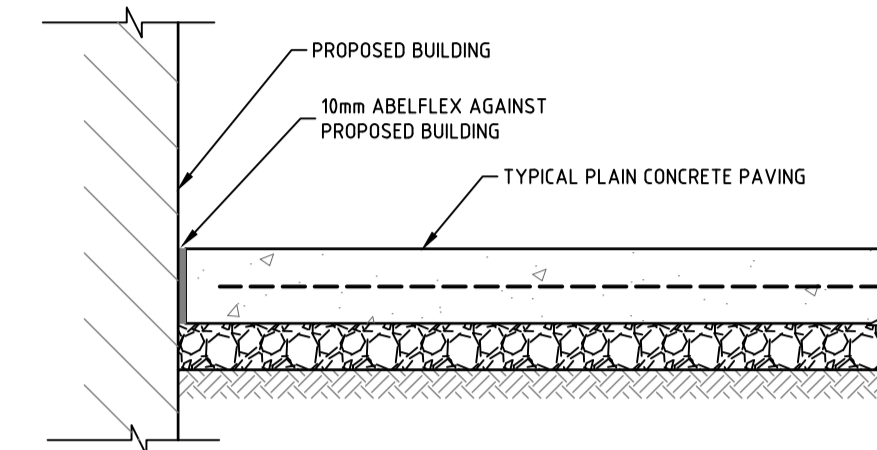
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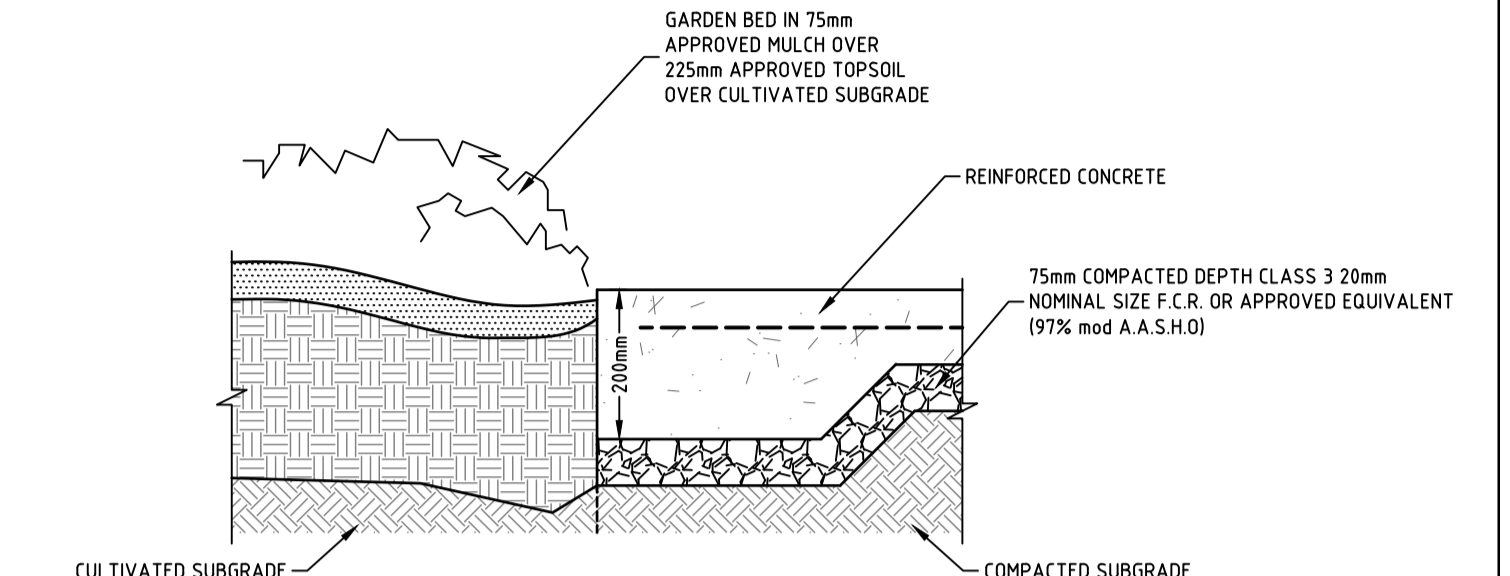
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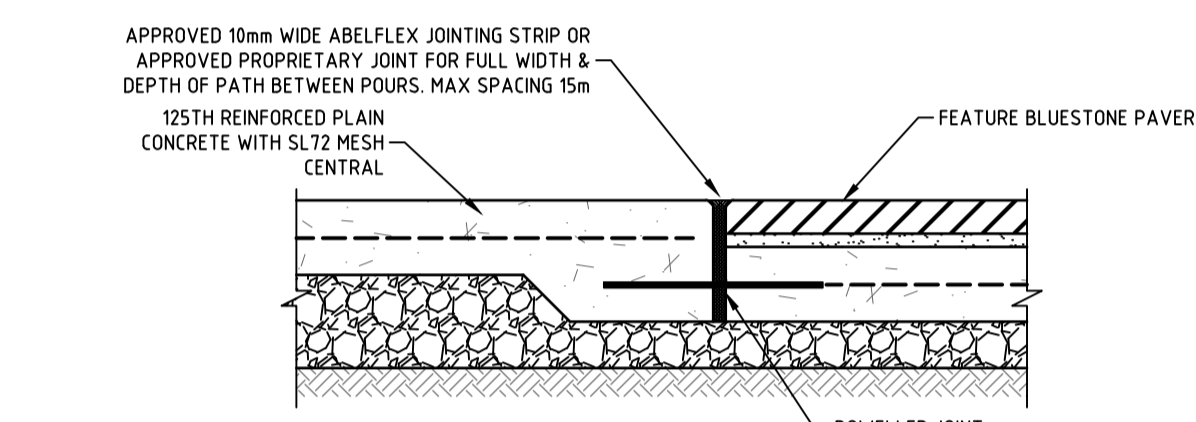
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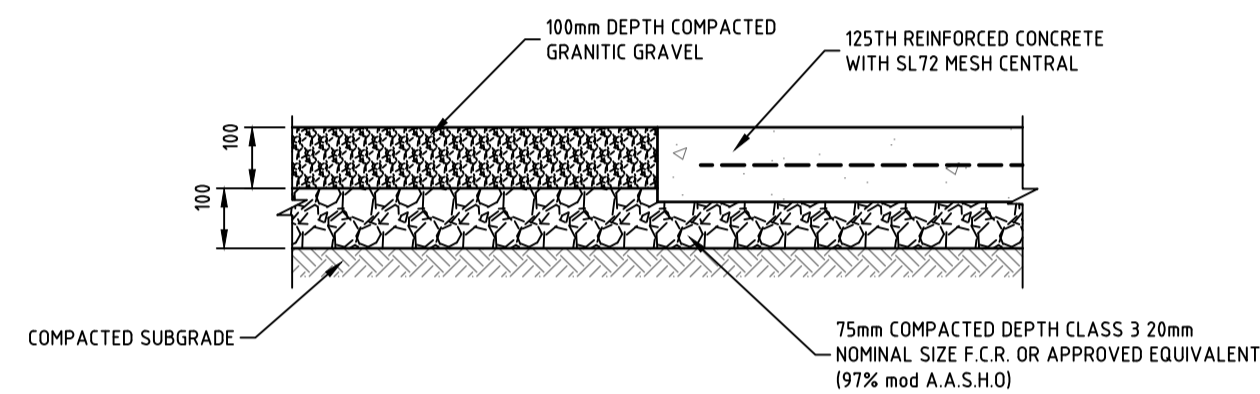
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N.T.S.



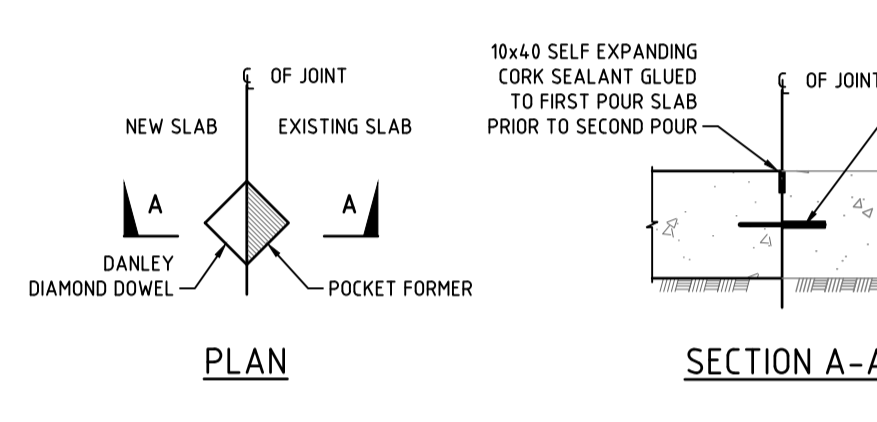
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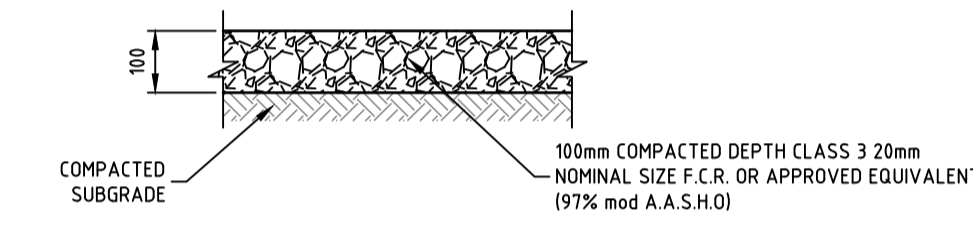
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N.T.S.



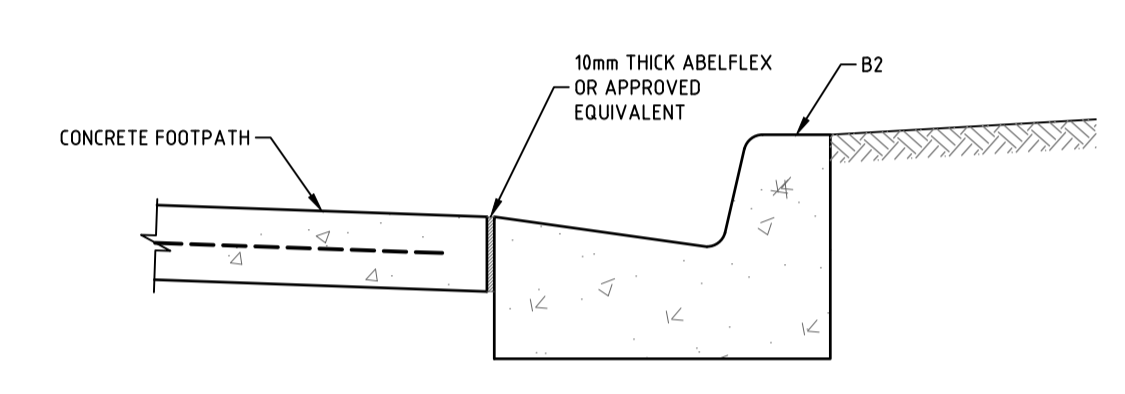
TYPICAL GRAVEL/CONCRETE INTERFACE
N.T.S.



DIAMOND PLATE DOWEL SYSTEM CONSTRUCTION JOINT (C.J)
N.T.S.



GRAVEL RAIN TANK PAD DETAIL
N.T.S.



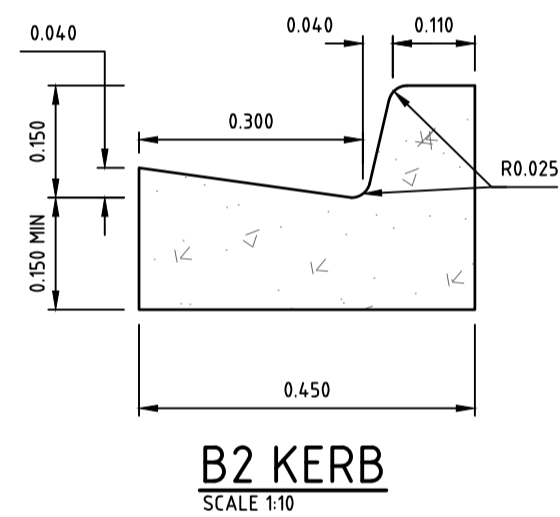
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**PLANNING and ENVIRONMENT ACT
Warrnambool PLANNING SCHEME**

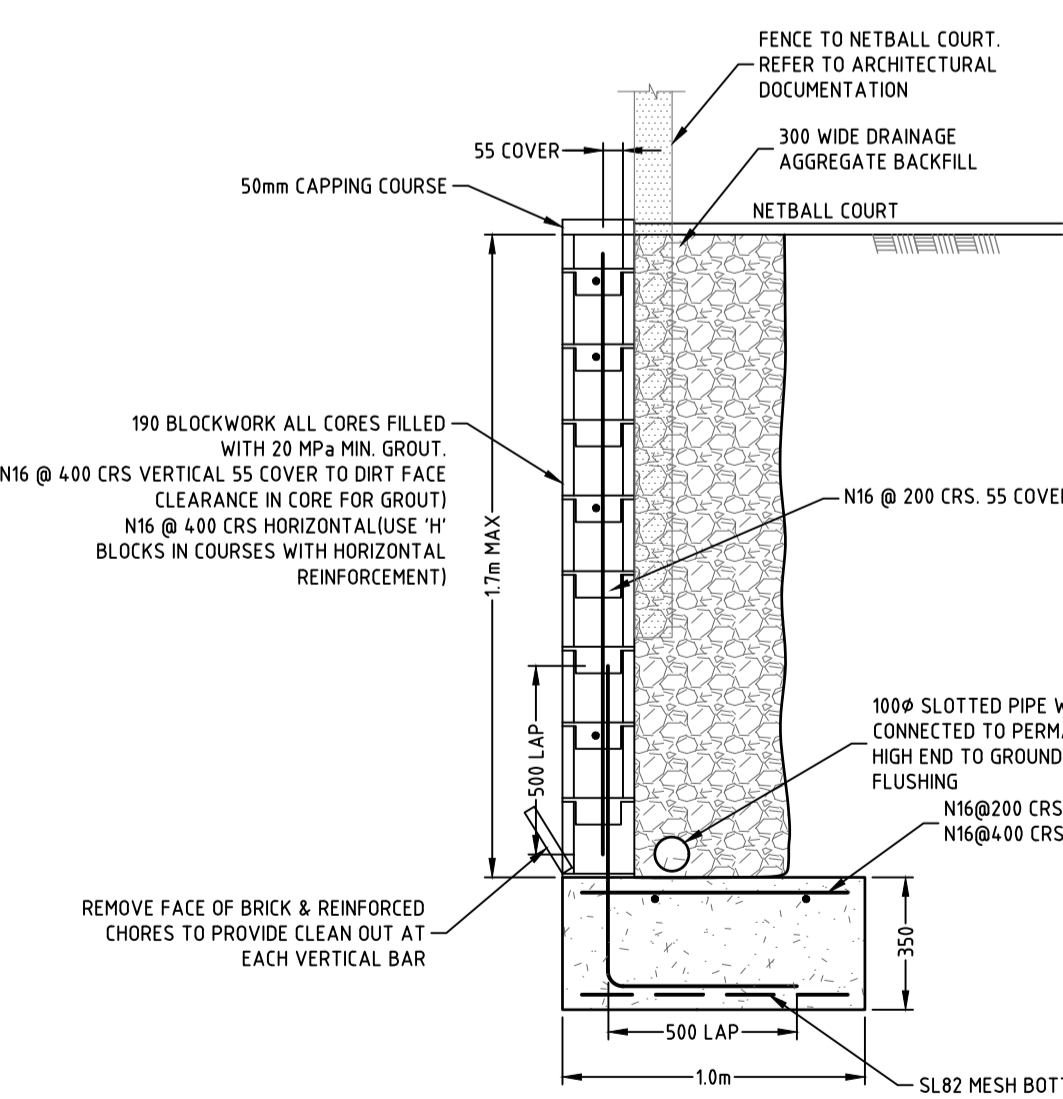
PERMIT NO. PA2201869

ENDORSED PLAN
Sheet 8 of 9

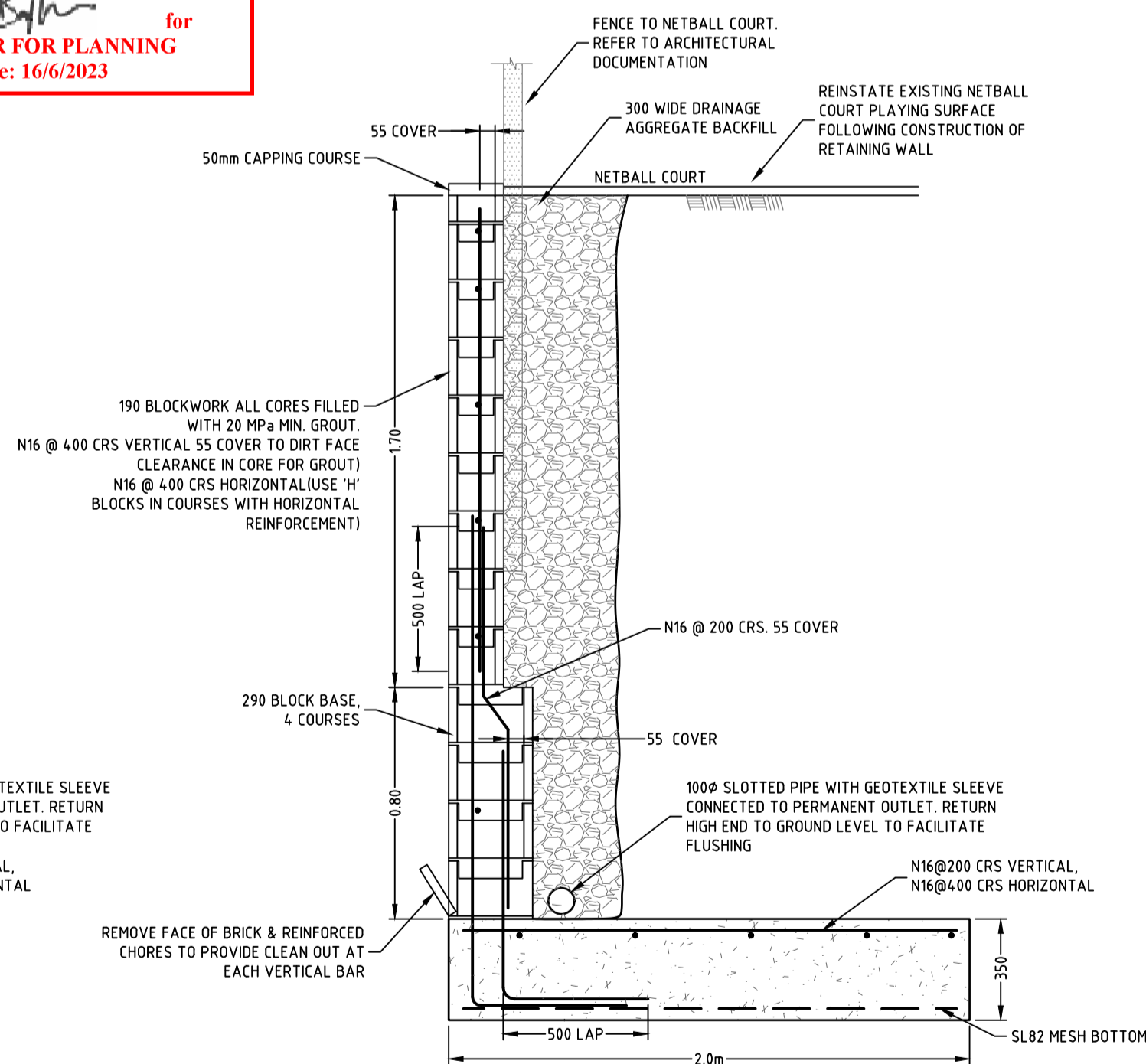
Signed: [Signature] for
MINISTER FOR PLANNING
Date: 16/6/2023



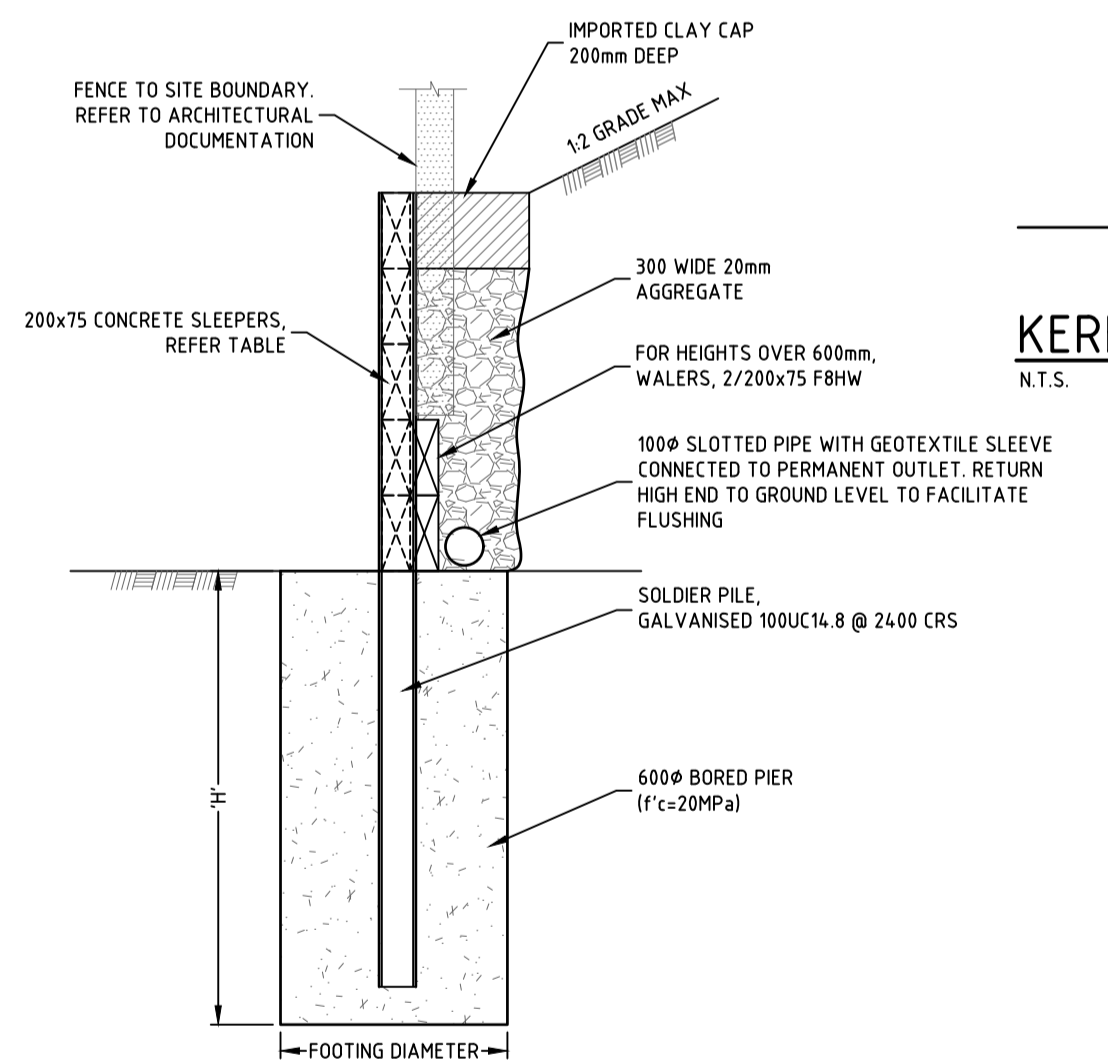
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MAX 1700 HIGH CONCRETE BLOCK RETAINING WALL @ NETBALL COURT DETAIL
N.T.S.

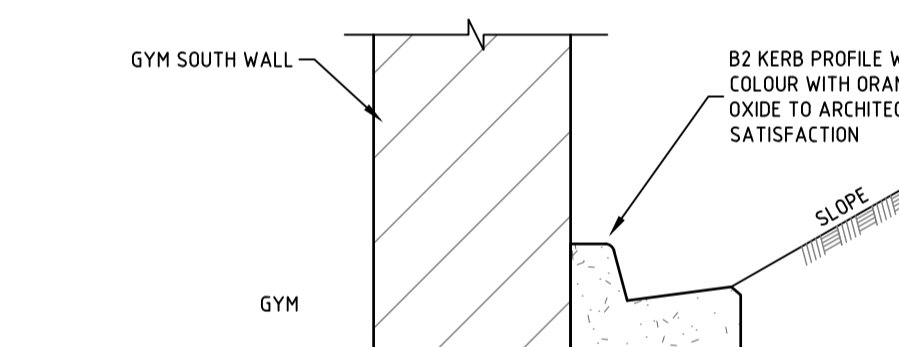


MAX 2500 HIGH CONCRETE BLOCK RETAINING WALL @ NETBALL COURT DETAIL
N.T.S.

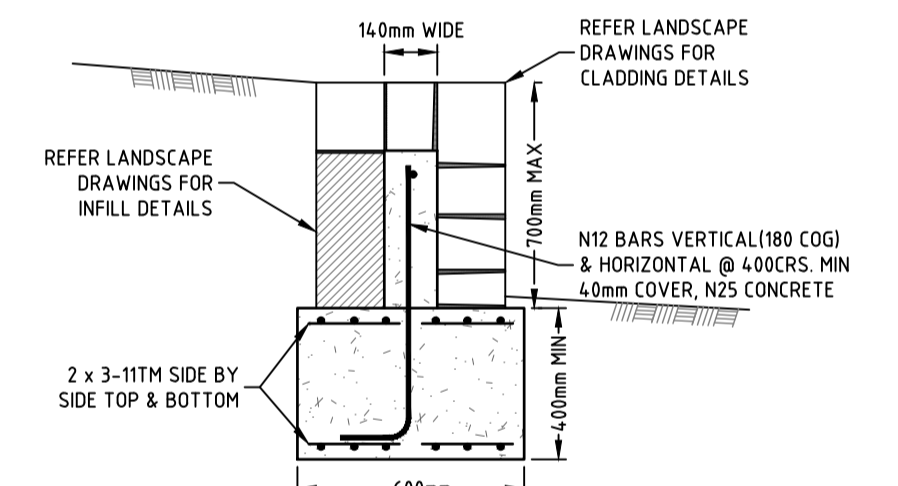


RETAINING WALL HEIGHT 'H'	SLEEPERS	SOLDIER PILE & SPACING	FOOTING
< 800	200x75 CONCRETE SLEEPER	100UC15 AT 2400 CRS	450φ x 1100 DEEP
< 1000	200x75 CONCRETE SLEEPER	100UC15 AT 2400 CRS	450φ x 1200 DEEP
< 1200	200x75 CONCRETE SLEEPER	100UC15 AT 2400 CRS	450φ x 1200 DEEP
< 1600	200x75 CONCRETE SLEEPER	100UC15 AT 2400 CRS	450φ x 1500 DEEP
< 1800	200x75 CONCRETE SLEEPER	150UC23 AT 2400 CRS	450φ x 1700 DEEP
< 2000	200x100 CONCRETE SLEEPER	150UC23 AT 2400 CRS	600φ x 1650 DEEP
< 2600	200x100 CONCRETE SLEEPER	150UC23 AT 2400 CRS	600φ x 2100 DEEP
< 2800	200x100 CONCRETE SLEEPER	150UC23 AT 2400 CRS	750φ x 2100 DEEP

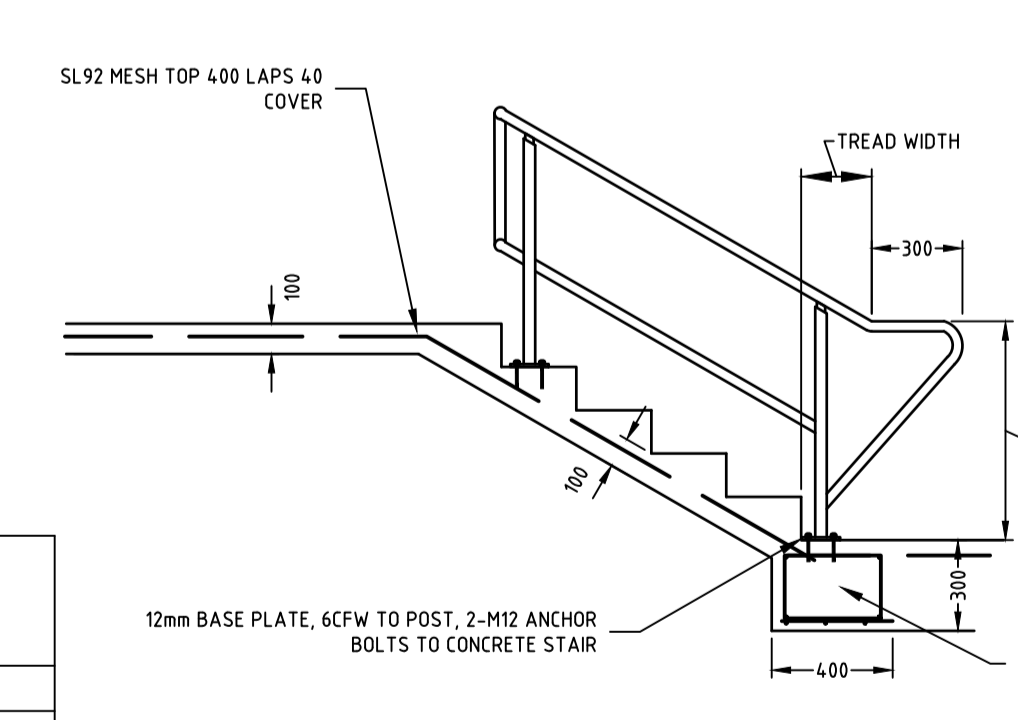
SOLDIER PILE RETAINING WALL DETAIL
N.T.S.



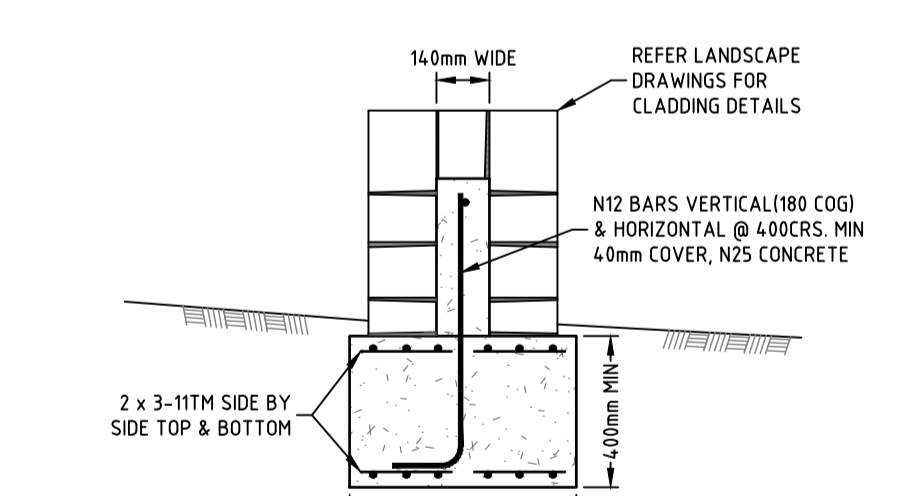
KERB @ SOUTH WALL OF GYM DETAIL
N.T.S.



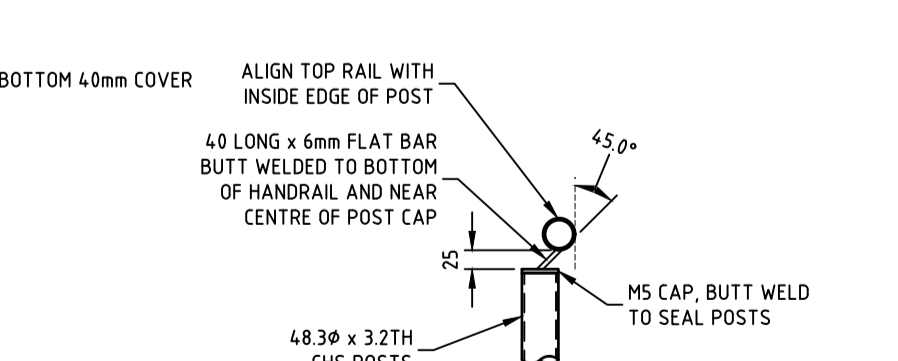
STONE RETAINING WALL DETAIL
N.T.S.



HANDRAIL SIDE VIEW
N.T.S.



STONE SEAT DETAIL
N.T.S.



HANDRAIL DETAIL
N.T.S.

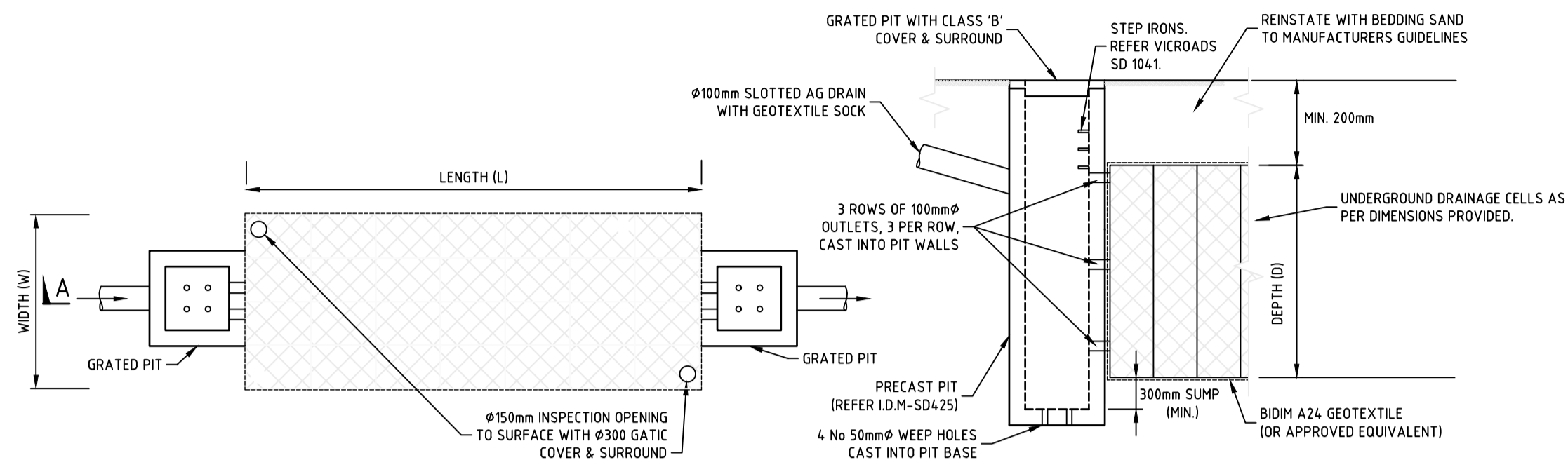
REV.	DESCRIPTION	DATE
G	MINOR AMENDMENTS FOR TENDER ISSUE	24/04/2023
F	TENDER ISSUE	21/04/2023
E	TENDER ISSUE	11/04/2023
D	ISSUED FOR TENDER COORDINATION	16/03/2023
C	DETAILED DESIGN ISSUE	27/02/2023
B	DESIGN DEVELOPMENT ISSUE	5/10/2022
A	ISSUED FOR COMMENT	28/09/2022

APPROVED
[Signature]

THE CSE GROUP
CONSULTING ENGINEERS

DESIGNED	S. Brodie
DRAWN	A. Stevenson
SCALE	A1 1:500
DATE	APRIL 2023

PROJECT TITLE	YEAR 9 CENTRE AND CARPARK EMMANUEL COLLEGE BOTANIC ROAD, WARRNAMBOOL
DRAWING TITLE	PAVEMENT DETAILS
PROJECT No.	2022.152
SHEET	C-31
REV.	G



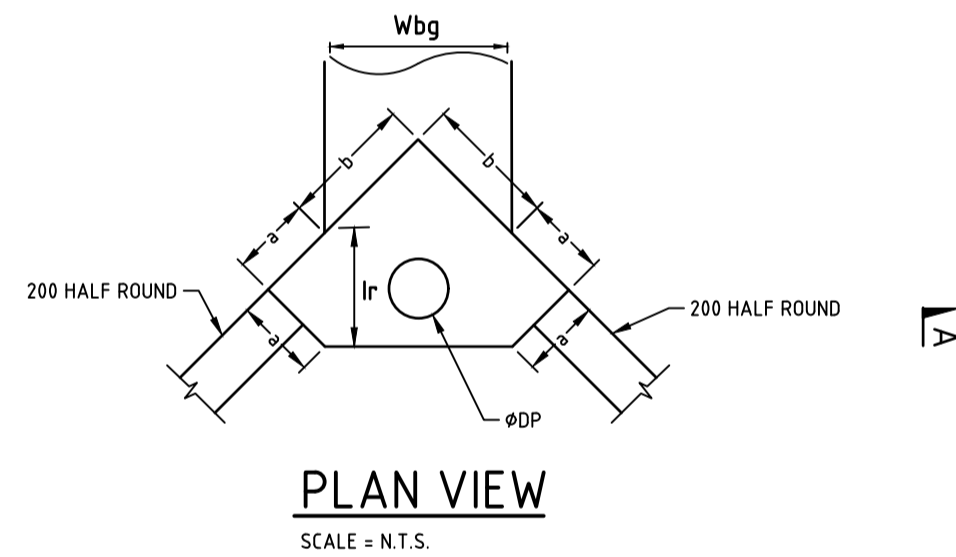
PLAN VIEW

TABLE			
L	W	D	V
8.0m	1.5m	1.0m	12.0m ³

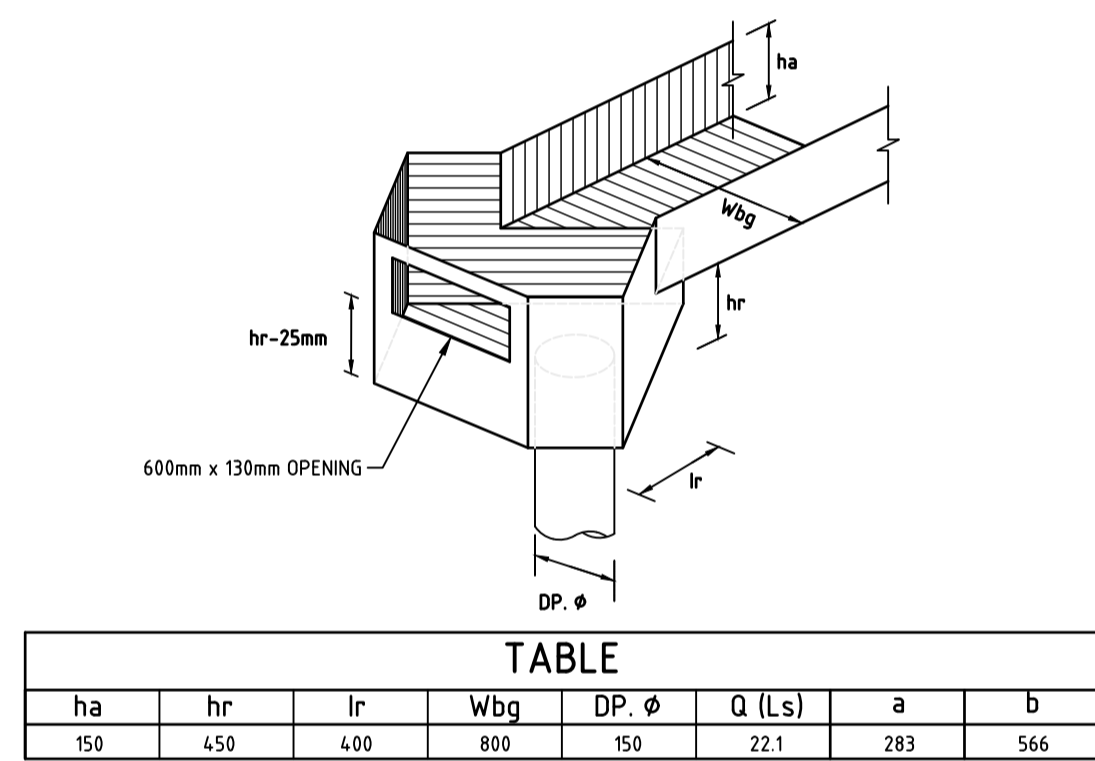
SECTION A-A

TYPICAL UNDERGROUND SOAKAGE TANK DETAILS (NO SURFACE LOADING)
SCALE: N.T.S.

Pit Schedule - Surface SW												
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
1/1	Null	(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	NO PIT REQUIRED
1/2	GP 600x600	600	600	150	10.982	225	10.982	1.188	12.170	628973.48	5752237.473	
1/3	GP 600x600	600	600	225	11.648	225	11.648	0.544	12.192	628975.65	5752229.151	
1/4	Null			225	12.181	225	12.181	0.105	12.286	628969.02	5752235.773	CONCRETE SURROUND OUTLET
1/5	GP 600x600	600	600	225	12.248	225	12.273	1.107	13.355	628962.58	5752233.911	
1/6	GP 600x600	600	600	225	12.331	225	12.356	0.850	13.181	628961.34	5752239.550	CLASS 'D' LID
2/1	GP 600x600	600	600	225	13.360	225	13.405	1.564	14.326	628966.53	5752216.009	
1/7	GP 600x600	600	600	225	13.405	225	13.405	1.174	14.969	628934.06	5752234.126	CLASS 'D' LID
1/8	GP 600x600	600	600	225	13.626	225	13.651	1.174	14.800	628934.94	5752253.987	CLASS 'D' LID
1/9	GP 600x600	600	600	225	14.193	225	14.218	1.052	15.245	628923.83	5752259.754	
1/10	GP 600x600	600	600	225	14.454	225	15.274	0.928	15.381	628900.66	5752263.799	
1/11	GP 600x600	600	600	225	16.708	225	16.733	1.889	18.597	628896.16	5752238.109	
1/12	GP 600x600	600	600	225	17.373	225	17.398	1.258	18.631	628885.53	5752233.373	
1/13	GP 600x600	600	600	225	17.605	225	17.630	0.927	18.532	628900.76	5752219.438	
1/14	GP 600x600	600	600	225	17.848			0.625	18.473	628905.10	5752197.480	

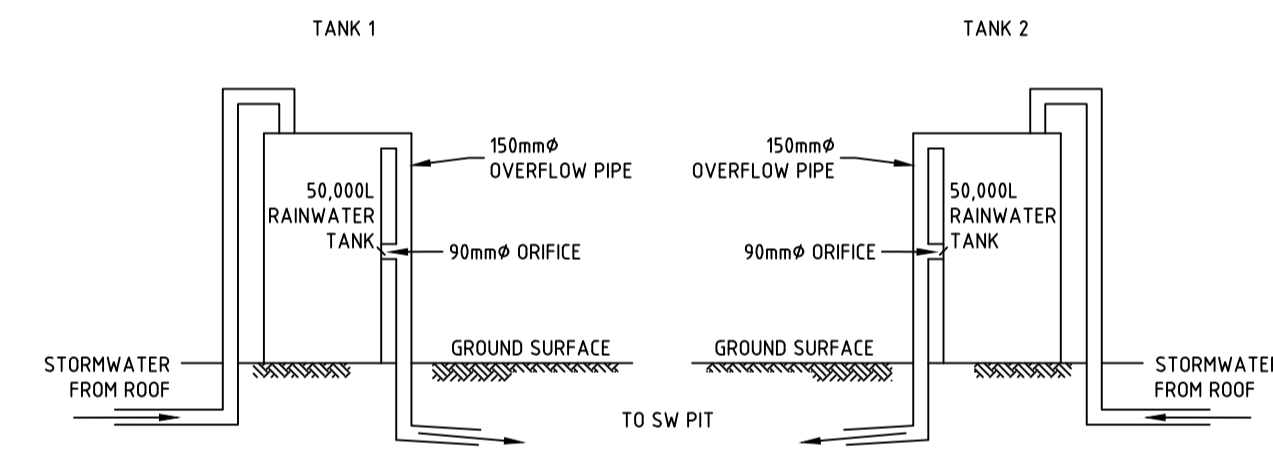


PLAN VIEW
SCALE: N.T.S.

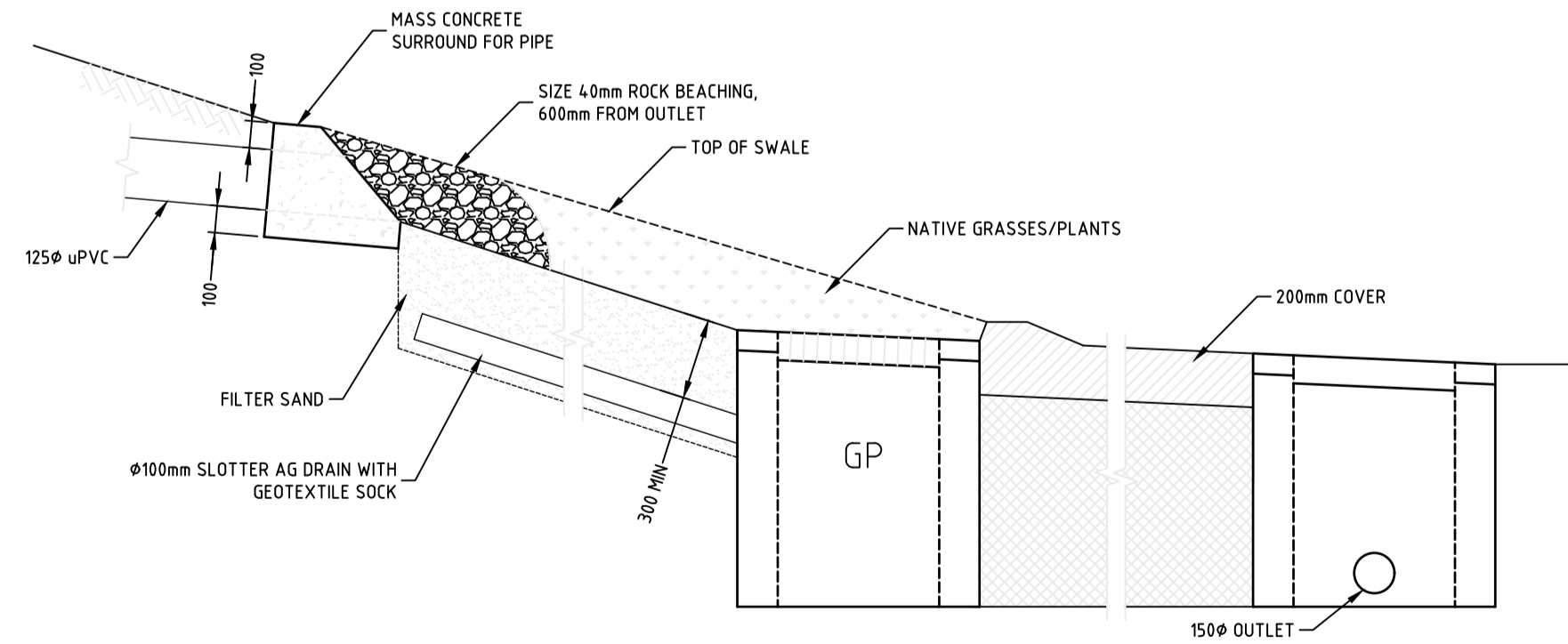


ha	hr	Ir	Wbg	DP. φ	Q (L/s)	a	b
150	450	400	800	150	22.1	283	566

TYPICAL BOX GUTTER RAIN HEAD DETAIL
SCALE: N.T.S.



DETENTION TANK DETAIL
N.T.S.



STORMWATER TREATMENT TANK
SCALE: N.T.S.

PLANNING and ENVIRONMENT ACT
Warrnambool PLANNING SCHEME

PERMIT NO. PA2201869

ENDORSED PLAN
Sheet 9 of 9

Signed: *[Signature]* for
MINISTER FOR PLANNING
Date: 16/6/2023

REV.	DESCRIPTION	DATE
G	MINOR AMENDMENTS FOR TENDER ISSUE	24/04/2023
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APPROVED

DESIGNED
S. Brodie

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DRAWN
A. Stevenson
SCALE
1:500
DATE
APRIL 2023

PROJECT TITLE
YEAR 9 CENTRE AND CARPARK EMMANUEL COLLEGE BOTANIC ROAD, WARRNAMBOOL
DRAWING TITLE
STORMWATER DETAILS

PROJECT No.
2022.152
SHEET
C-32
REV.
G