

Fibonacci Park - Detailed Design Documentation



Construction Documentation - How to Use Guide

Introduction

The following notes are intended to assist the contractor understand the organisation and structure of the Civile design documentation package. The package includes three separate documents that are cross referenced. These are the Plan Drawing Sheets, Construction Details and the Technical Specification. The contractor is required to refer to the three documents together to fully understand the construction intent. The project documentation package is organised into ten major categories [0000-9000] with a system of codes utilised to link major project components across the three documents.

Plan Drawing Sheets

The Drawing Sheets include the cover page, legend, key plan, and other general information. For each sheet, an Existing Site Plan, Demolition Plan, Levels and Contours Plan, Materials & Finishes Plan, Planting Plan, and Civil Plan are provided as required to enable construction. A consolidated legend on the second drawing sheet outlines the major components and their corresponding codes. The Drawing Sheets may also contain long sections and elevations. The drawing sheets can be printed at a reduced scale on A3 size for ease of use on site however the contractor should refer firstly to the original size sheets.

Construction Details

This A3 document contains enlarged details from the drawing sheets and 3D model. Details may be drawn in section, elevation, axonometric, or 3D format.

Technical Specification

This A4 document contains the material descriptions, build methodology, standards, environmental requirements and quality expectations of the procurement and construction process.

Documentation Categories

The project documentation is organised into ten major categories that are found in all the contract documents. This project may not utilise all categories. The general content of each category is as follows:

0000 General

Project Information, environmental performance, quality requirements, general materials requirements & demolition.

1000 Preparation, Groundworks & Drainage

Preparation & groundwork, earthworks, services trenching, drainage and soil works.

2000 Walls, Slabs + Edges

Vertical and horizontal structural elements.

3000 Pavements & Civil

Pedestrian and vehicular pavements.

4000 Site Structures

Unique structures that may be assembled from elements contained in other categories.

5000 Fences+ Rails

Fences, gates, balustrades, hand rails, grab rails and other barriers.

6000 Water Elements

Ponds, wetlands and water sensitive urban design elements.

7000 Furniture + Fittings

The palette of site furnishings including furniture, lighting, fittings and fixtures.

8000 Planting

Botanical material including trees, shrub understorey, ground covers, herbs, aquatic plants and grasses.

9000 Irrigation

Temporary and permanent automatic or manual watering systems.

Component Codes

To assist the contractor Civile uses a code system to describe the unique components contained in the package. These major components are identified by codes called 'Types'. The ten documentation categories may contain a number of component 'Types'. For example, in the 200 category the project may contain a number of wall 'Types'. Each wall has a specific descriptor ie. t{wall0?}. The 't' identifies the component as a Type, 'wall' identifies that it is a wall and the '0?' is used to identify the particular wall. A wall t{wall0?} will be documented in the 200 category of the Construction Details whilst its physical attributes will be described in the Technical Specification. The location of all instances of the wall Type t{wall0?} will be indicated on the Drawing Sheets and its graphic properties described in the Drawing Sheets legend.

Site Set Out - Digital Files

Subject to copyright and if requested, Civile will make available a 2D or 3D digital design file to assist the contractor set out the works on site. The contractor should enquire with the Principal at tender stage to ascertain which types of file are available to assist with construction set out. The contractor is required to verify that any digital file provided by Civile is suitable for the intended use, has been translated correctly and is correctly geo-referenced prior to import into any device.

General Notes

The following notes apply to all the contract documents:

- All dimensions on the Drawing Sheets are in meters unless otherwise noted.
- All dimensions on the Construction Details are in millimeters unless otherwise noted.
- The contractor is not to scale from any printed drawing.
- The contractor must verify all dimensions on site and notify the Principal of any discrepancies prior to construction.
- The contractor must verify all existing services locations prior to excavation.

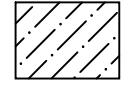
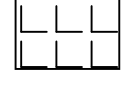


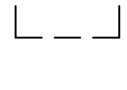


Fibonacci Park - Detailed Design Documentation



LIST OF DRAWINGS		
SHEET No.	DESCRIPTION	REVISION
PLANS (PP)		
PIONEER PARK PLANS		
PP-01	COVER PAGE	B
PP-02	DRAWING LIST & LEGEND	B
PP-03	SKETCH GUY CROSLY	B
PP-100	EXISTING SITE PLAN	B
PP-101	DEMOLITION PLAN	B
PP-102	LEVELS & GRADING PLAN	B
PP-103	CUT & FILL PLAN	B
PP-104	MATERIALS & FINISHES PLAN	B
PP-105	PLANTING PLAN	B
SECTIONS (S)		
PIONEER PARK SECTIONS		
PP-S01	SECTIONS	B
RP-S02	ELEVATION	B
DETAILS (D)		
PIONEER PARK DETAILS		
1001	SOIL & PREPARATION; TREE PROTECTION	B
1002	SOIL & PREPARATION; SOIL MEDIA TYPES	B
2001	WALLS & EDGES; WALL TYPE 01	B
2002	WALLS & EDGES; WALL TYPE 02+03	B
2002	WALLS & EDGES; WALL TYPE 04	B
3001	PAVEMENTS	B
3002	PAVEMENTS	B
8001	PLANTING TYPICAL DETAILS	B

LEGEND

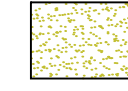



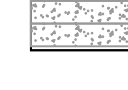
DEMOLITION

-  REMOVE TURF & PREPARE SUBGRADE
-  REMOVE VEGETATION & PREPARE SUBGRADE
-  DEMOLISH PAVEMENT & BASE
-  RELOCATE EXISTING STRUCTURE
-  NEW LOCATION RELOCATED STRUCTURE




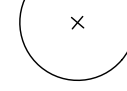
LEVELS & GRADING

-  CONTOURS MAJOR (1.00m INTERVALS)
-  CONTOURS MINOR (0.25m INTERVALS)
- + FL 999.05 FINISH LEVELS
- + EL 999.05 EXISTING LEVELS
- + TOW 999.45 TOP OF WALL LEVELS

MATERIALS & FINISHES

-  SOIL MEDIA TYPE 1 - TURF
-  SOIL MEDIA TYPE 2 - NATURAL SOIL
-  PAVING TYPE 1 - CONCRETE PAVEMENT (AT GRADE)
-  WALL TYPE 1 & 2 - CONCRETE WALL
-  WALL TYPE 2 & 3 - CONCRETE SEATING WALL

PLANTING

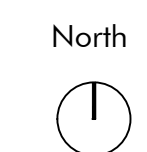
-  TURF
-  NATIVE MASSED PLANTING 1
-  NATIVE MASSED PLANTING 2
-  TREE PROPOSED

Issue Log

Rev	Description	By/Checked	Date
A	Draft for review	JV/DK	01/06/2022
B	For Tender	JV/DK	21/06/2022

Scale

All dimensions are in metres unless otherwise noted.
Do not scale from this drawing.



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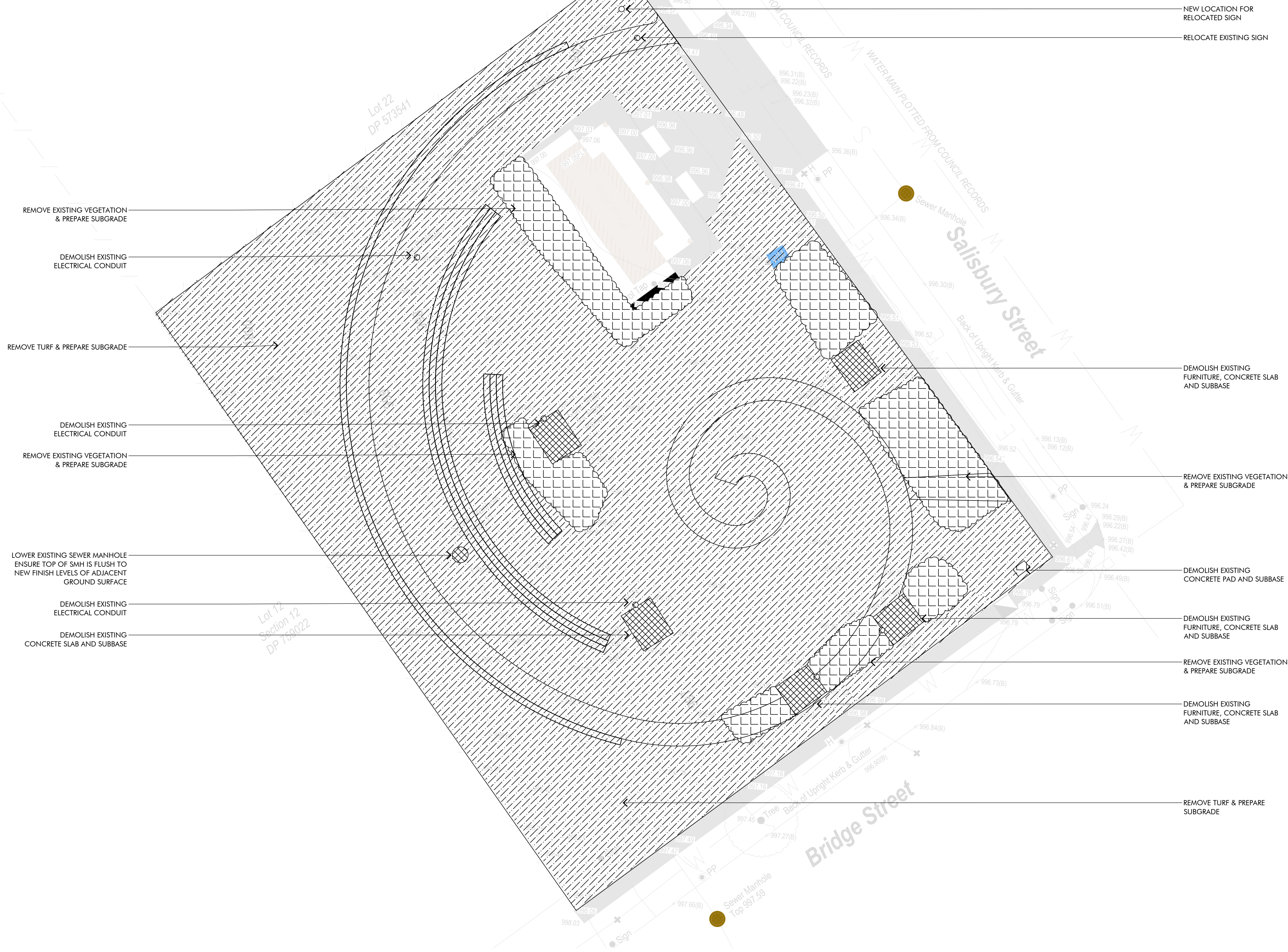


The Design for the upgrades of Fibonacci Park is based on a Guy Crosley sketch (as shown on this page) and consultation with the Uralla Community

01 SKETCH OF FIBONACCI PARK BY GUY CROSLY
FOR VISUAL REFERENCE ONLY

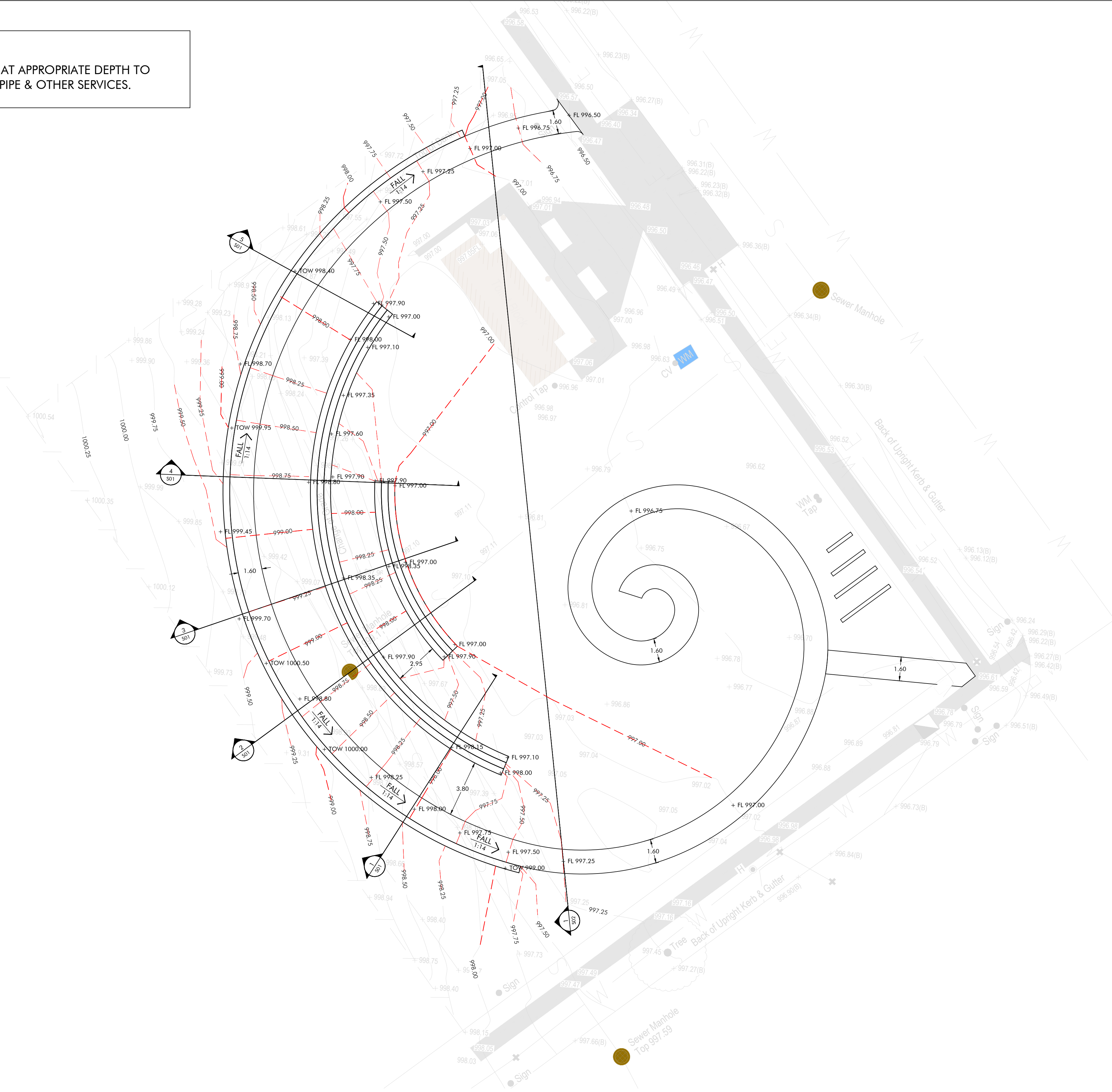


NOTE
CONTRACTOR TO CHECK AND ENSURE THAT APPROPRIATE DEPTH TO COVER IS MAINTAINED ABOVE THE SEWER PIPE & OTHER SERVICES.



NOTE

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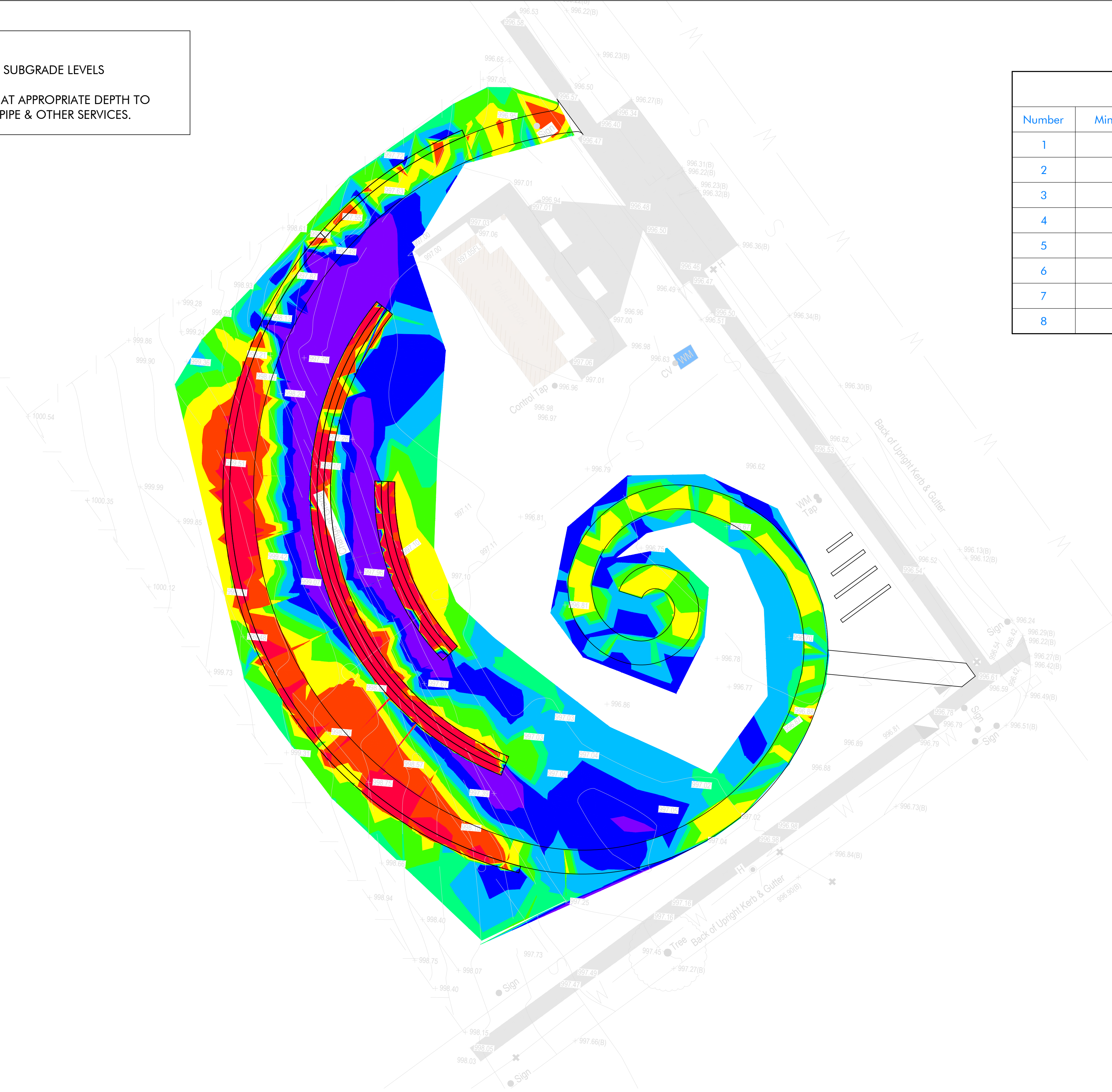
NOTE

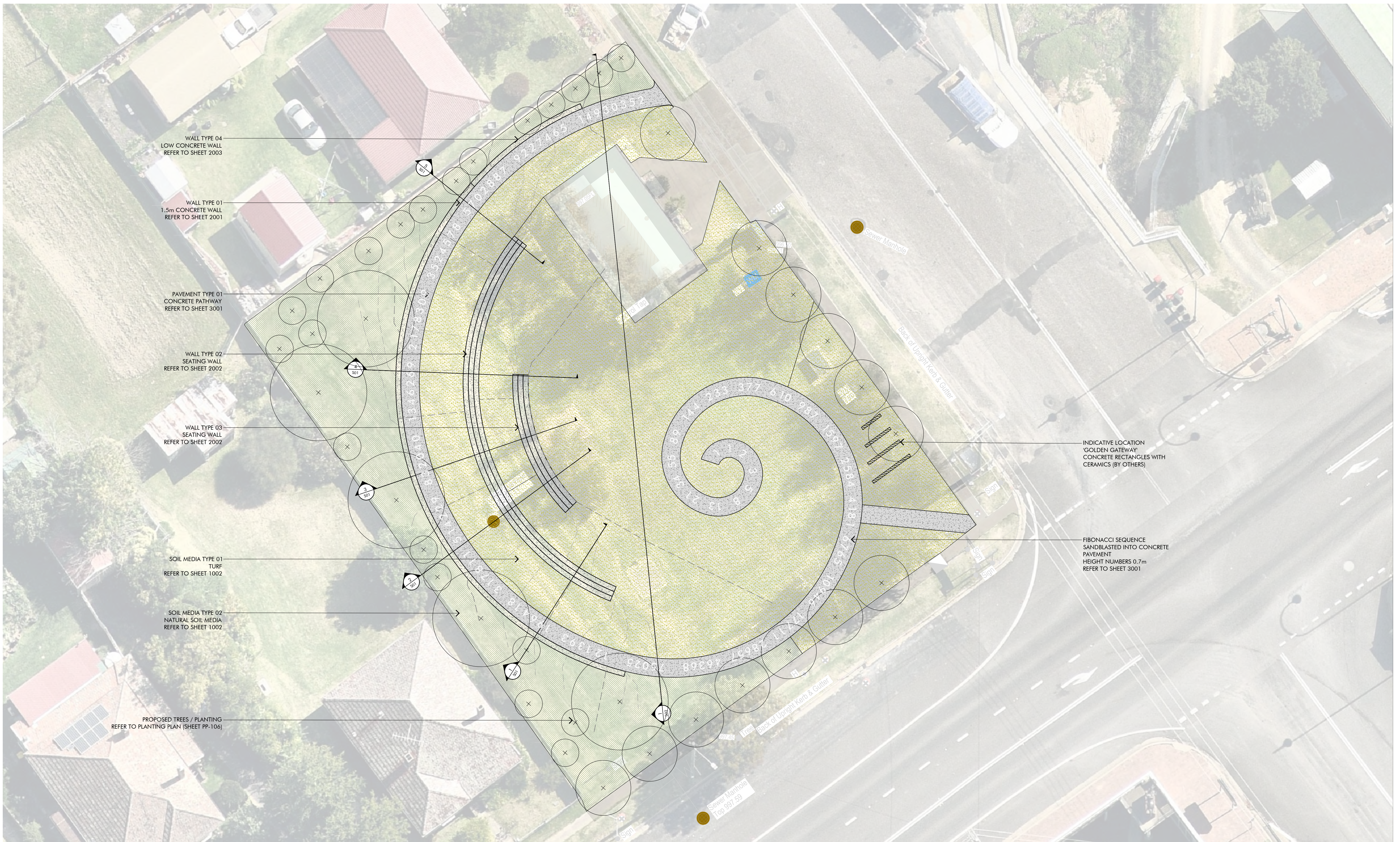
CUT/FILL MODEL CALCULATED TO TOP OF SUBGRADE LEVELS

CONTRACTOR TO CHECK AND ENSURE THAT APPROPRIATE DEPTH TO COVER IS MAINTAINED ABOVE THE SEWER PIPE & OTHER SERVICES.

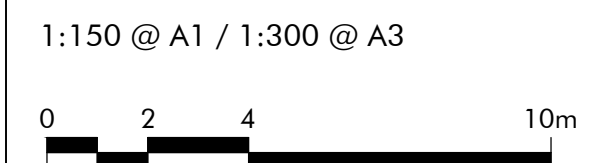
Elevations Table

Number	Minimum Elevation	Maximum Elevation	Area	Color
1	-1.17	-0.45	89.40	Red
2	-0.45	-0.22	99.53	Orange
3	-0.22	-0.10	135.69	Yellow
4	-0.10	-0.01	153.74	Light Green
5	-0.01	0.02	96.71	Green
6	0.02	0.11	210.31	Cyan
7	0.11	0.25	176.17	Blue
8	0.25	0.97	104.23	Purple





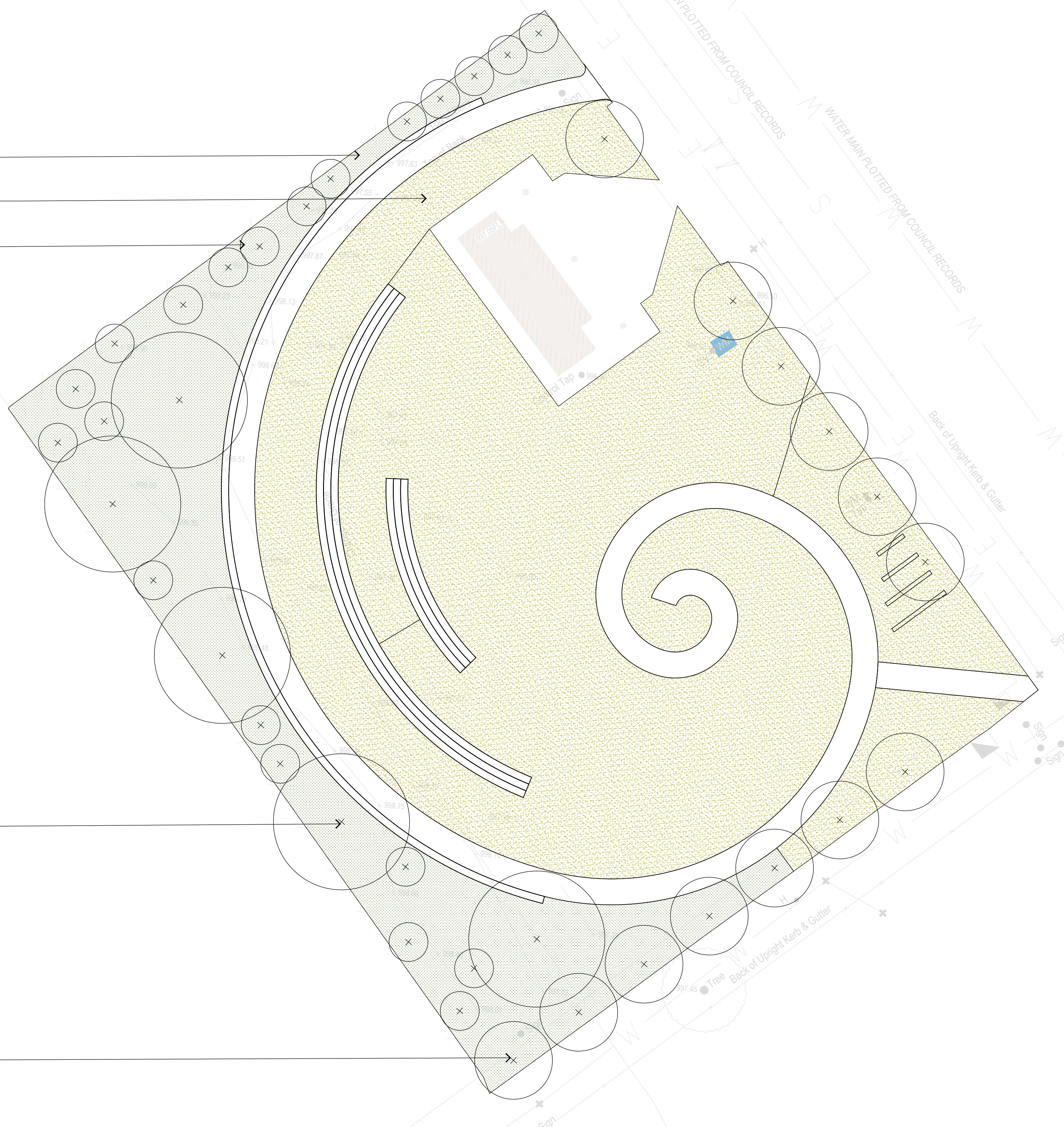
Rev	Description	By/Checked	Date
A	Draft for review	JV/DK	01/06/2022
B	For Tender	JV/DK	21/06/2022



NATIVE PLANT MIX
KIKUYU LAWN
21x CALLISTEMON VIMINALIS (140mm)

5x MELALUCA LINARIIFOLIA (200L)

13 x LIRIODENDRON TULIPIFERA (400L)



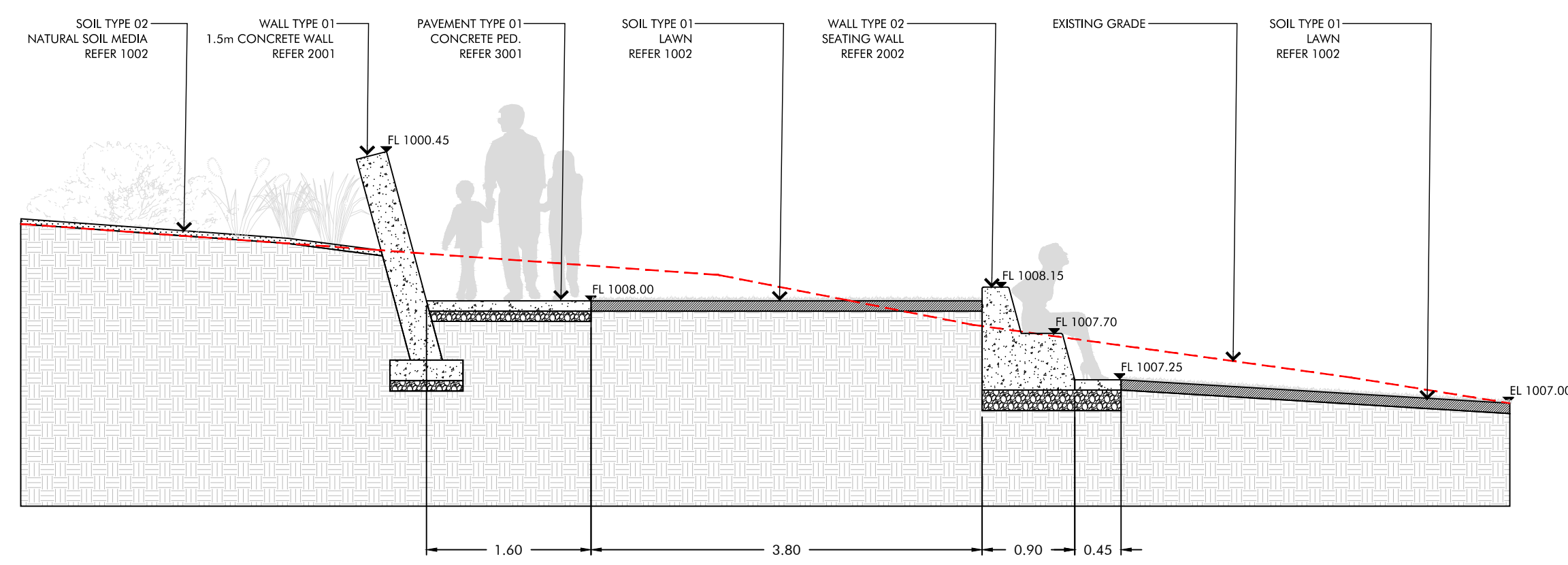
Pioneer Park Native Planting Mix 1 (5 plants per m sq, tubestock)

		Total area (m2) = 488		
PCT	Species	Growth form	% of mix	total plants (tube)
510	<i>Themeda australis</i>	Grass	20%	488
510	<i>Poa sieberiana</i>	Grass	15%	366
510	<i>Austrostipa stipoides</i>	Grass	15%	366
510	<i>Chrysocephalum apiculatum</i>	Groundcover	10%	244
510	<i>Goodenia pinnatifida</i>	Groundcover	10%	244
510	<i>Hypericum gramineum</i>	Groundcover	10%	244
510	<i>Vittadinia muelleri</i>	Groundcover	10%	244
510	<i>Wahlenbergia spp.</i>	Groundcover	10%	244
			100%	2440

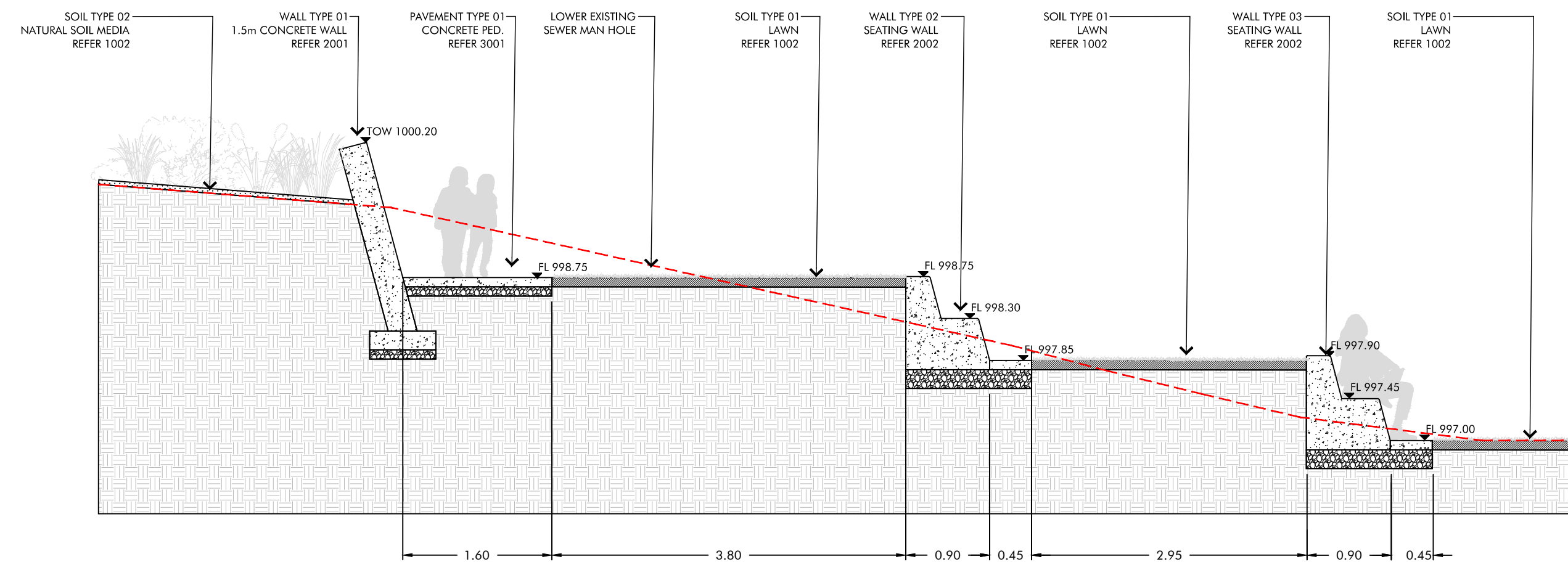
Pioneer Park Lawn - Kikuyu Total area (m2) = 1214

Pioneer Park Trees

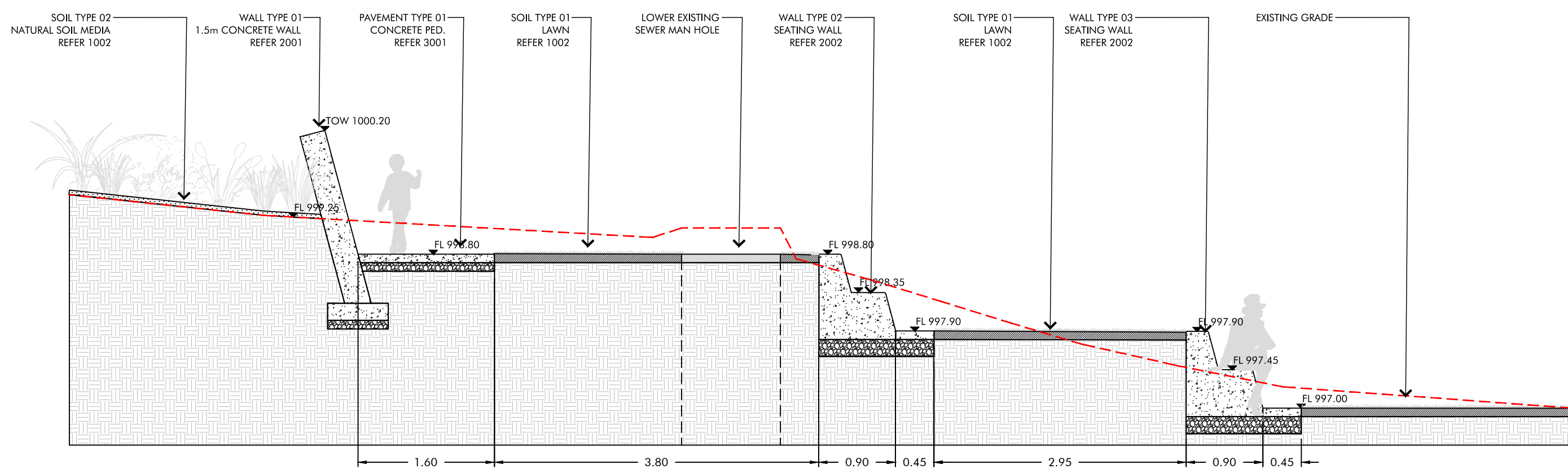
PCT	Species	Growth form	size	amount
/	<i>Liriodendrum tulipifera</i>	Tree	400L	5
/	<i>Callistemon viminalis</i>	Tree / shrub	140mm	21
/	<i>Melaleuca linariifolia</i>	Tree	200L	5
Total number of trees				31



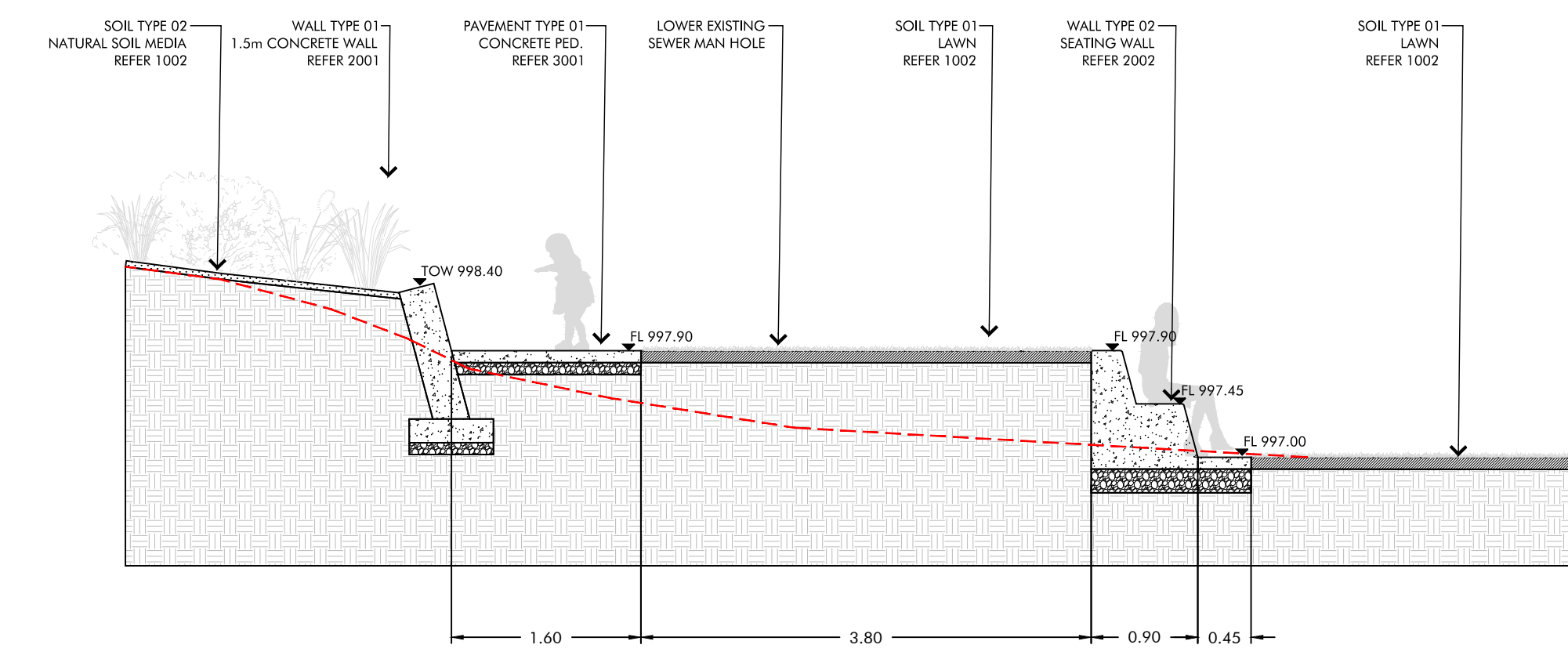
01 SECTION 01
SCALE 1:50 @ A1



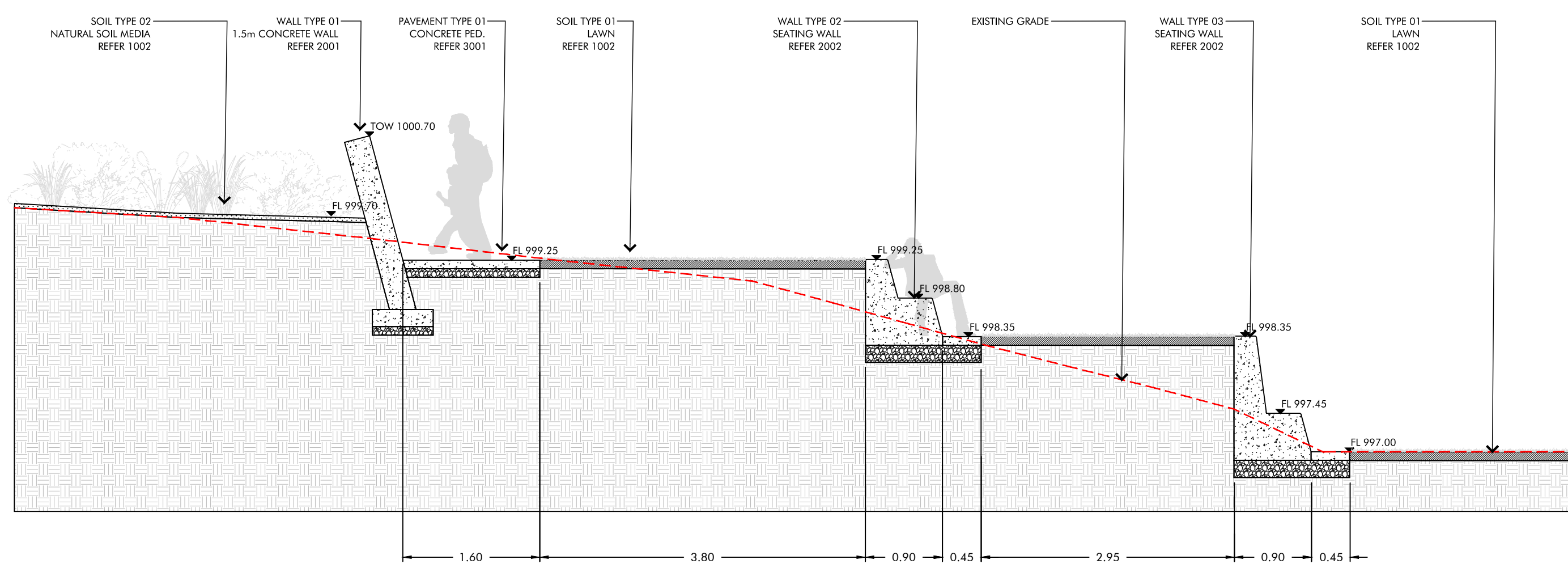
04 SECTION 04
SCALE 1:50 @ A1



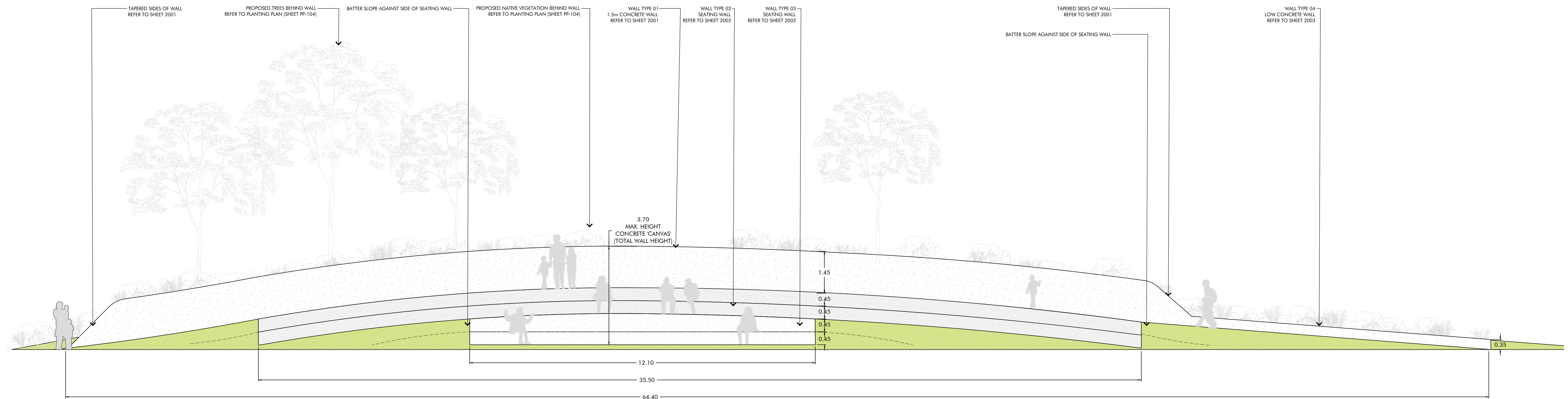
02 SECTION 02
SCALE 1:50 @ A1



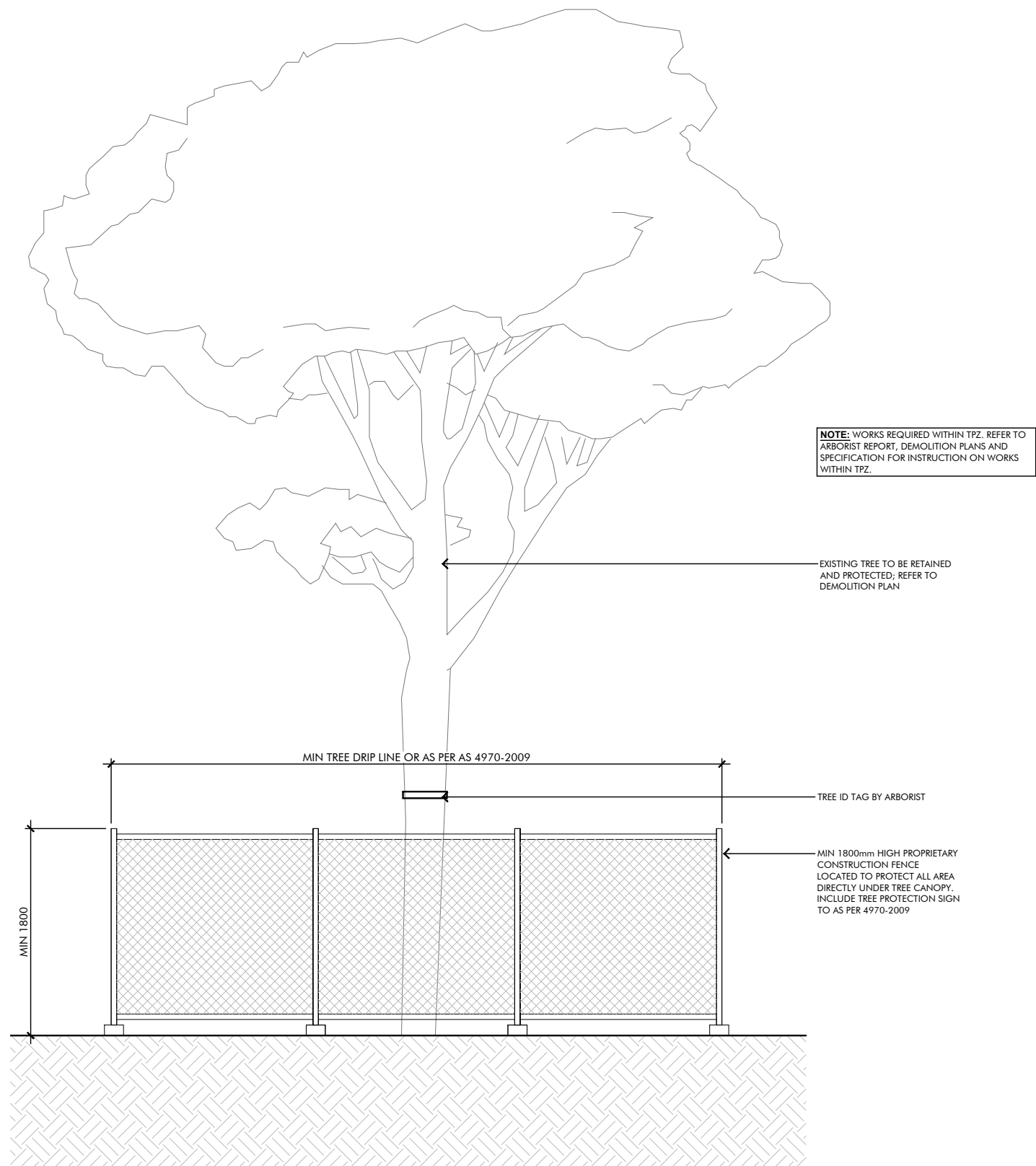
05 SECTION 05
SCALE 1:50 @ A1



03 SECTION 03
SCALE 1:50 @ A1

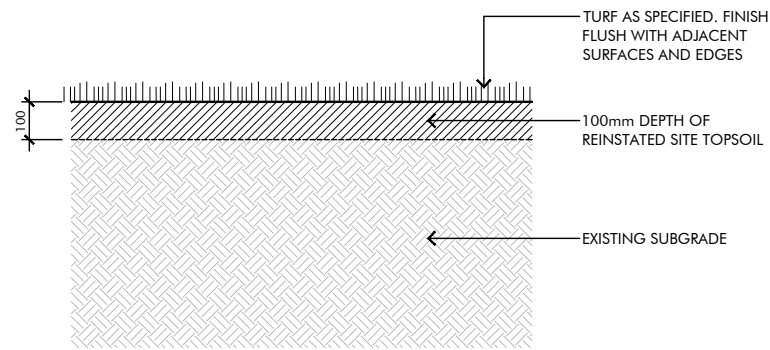


01 ELEVATION 01 - INDICATIVE ONLY
SCALE 1:65 @ A1

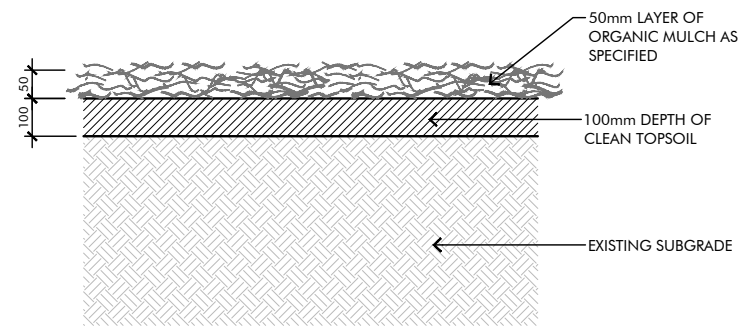


A EXISTING TREE PROTECTION DETAIL
1:50 @ A3

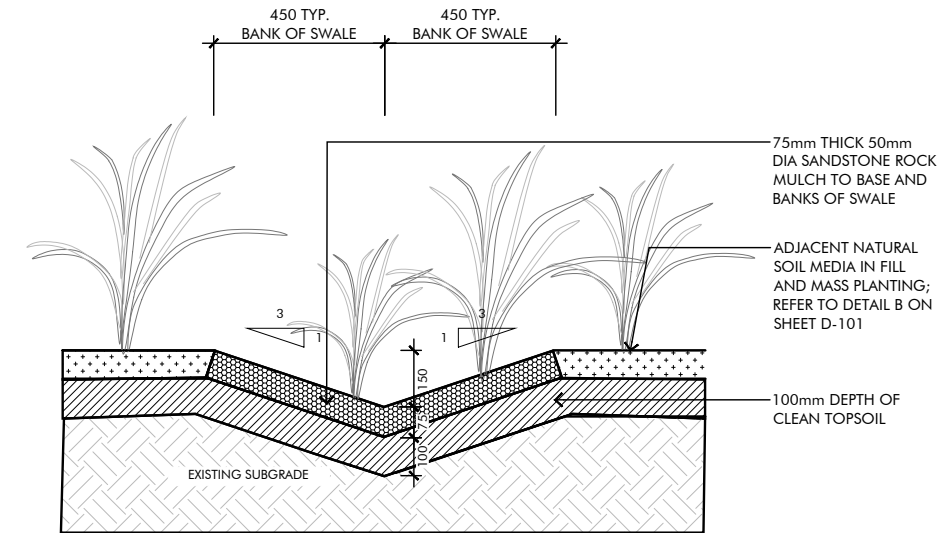
B REFERENCE IMAGE OF TRUNK PROTECTION
NTS



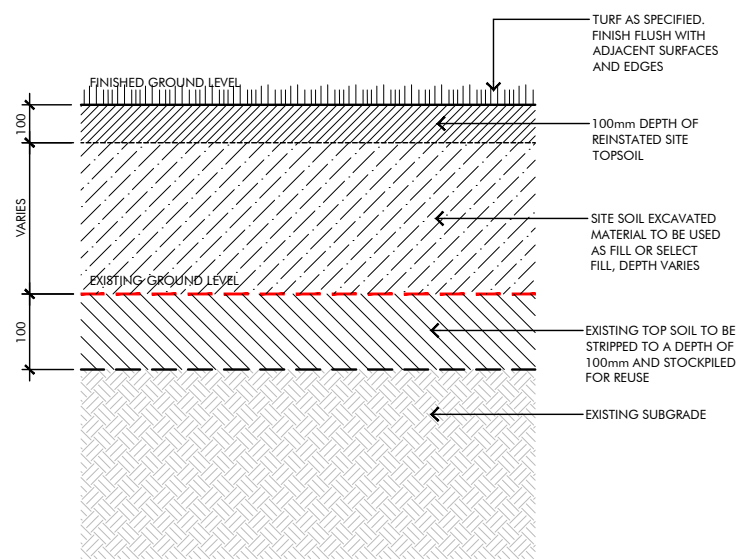
A SOIL MEDIA TYPE 1A - TURF ON GRADE
1:10 @ A3



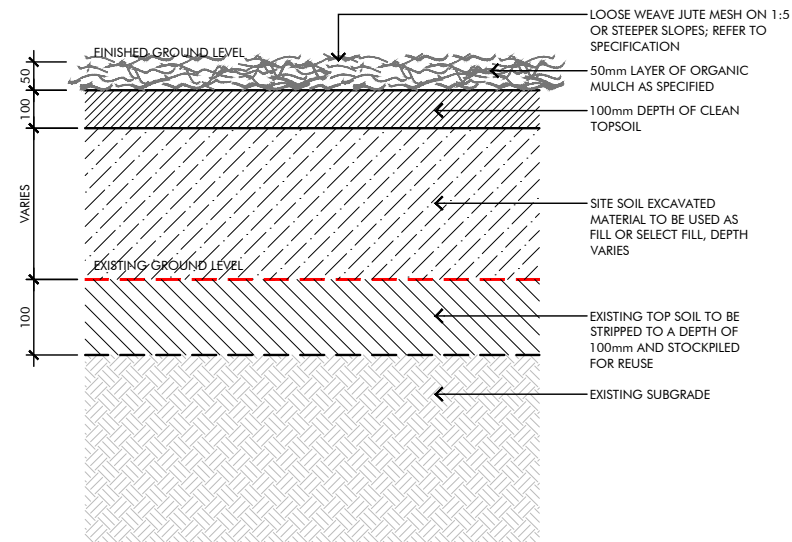
B SOIL MEDIA TYPE 2A - NATURAL SOIL MEDIA ON GRADE
1:10 @ A3



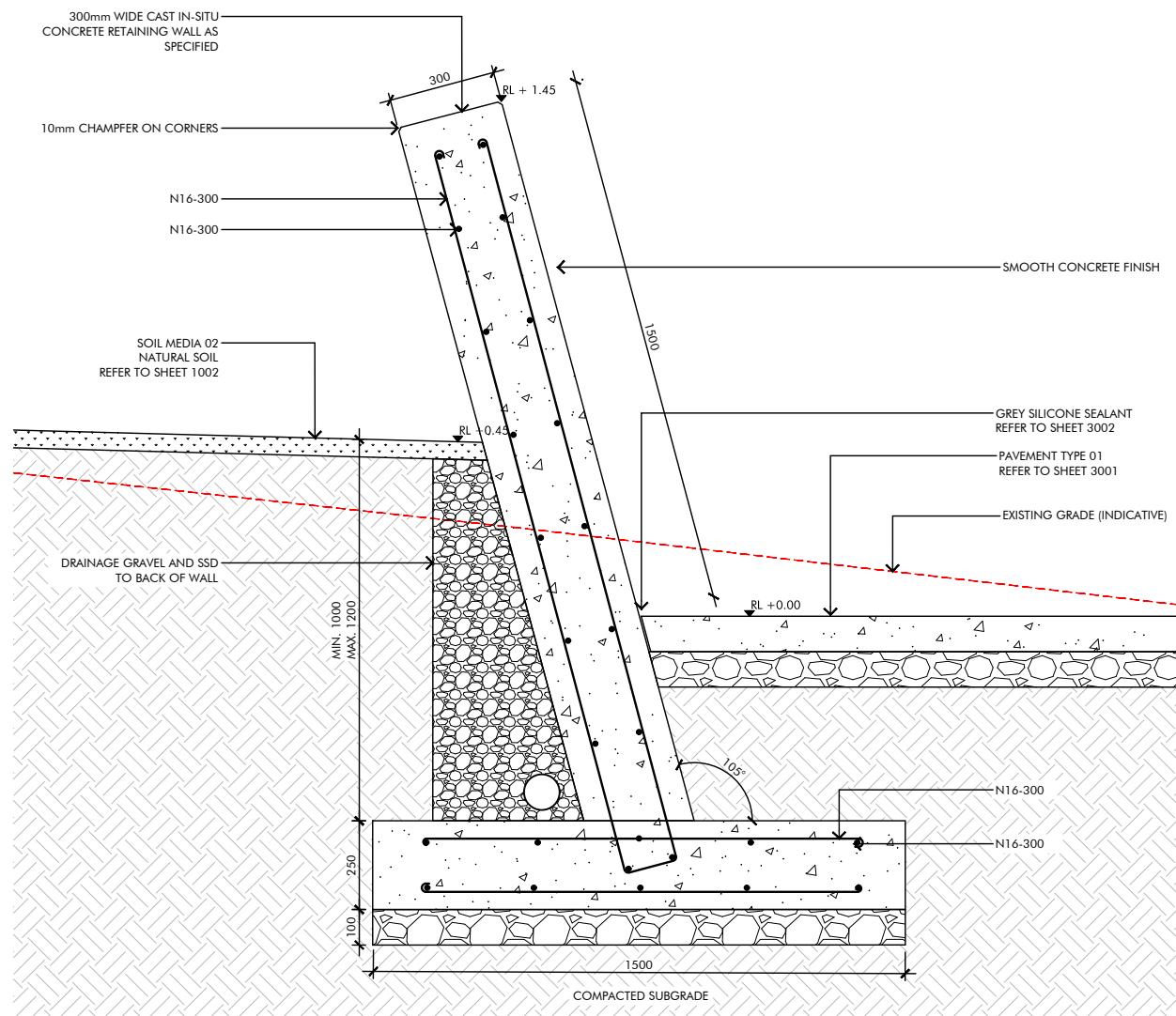
E SOIL MEDIA TYPE 3 - SWALE
1:20 @ A3



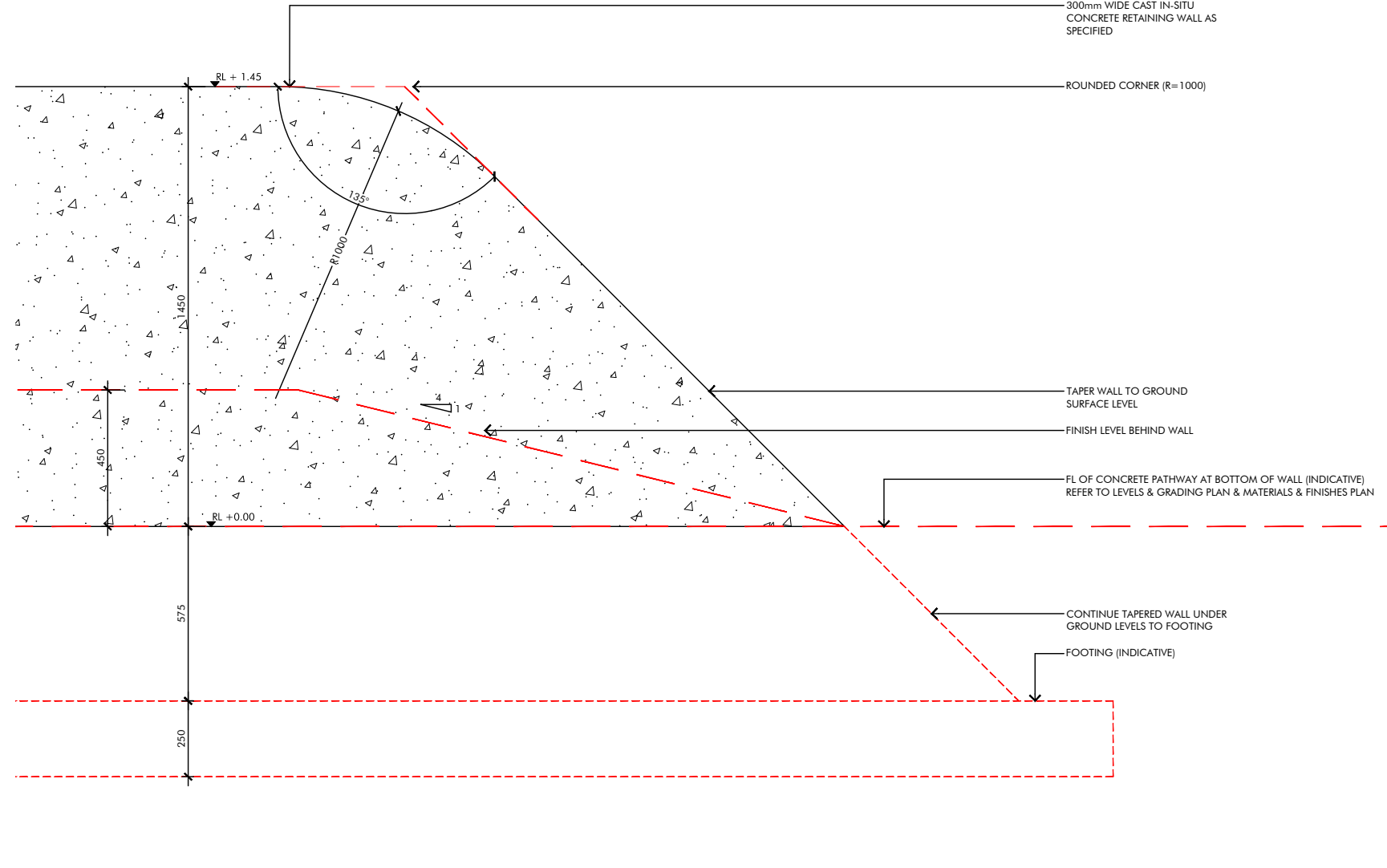
C SOIL MEDIA TYPE 1B - TURF IN FILL
1:10 @ A3



D SOIL MEDIA TYPE 2B - NATURAL SOIL MEDIA IN FILL
1:10 @ A3



A WALL TYPE 01 - 1.5m CONCRETE WALL
TYPICAL SECTION 1:20 @ A3

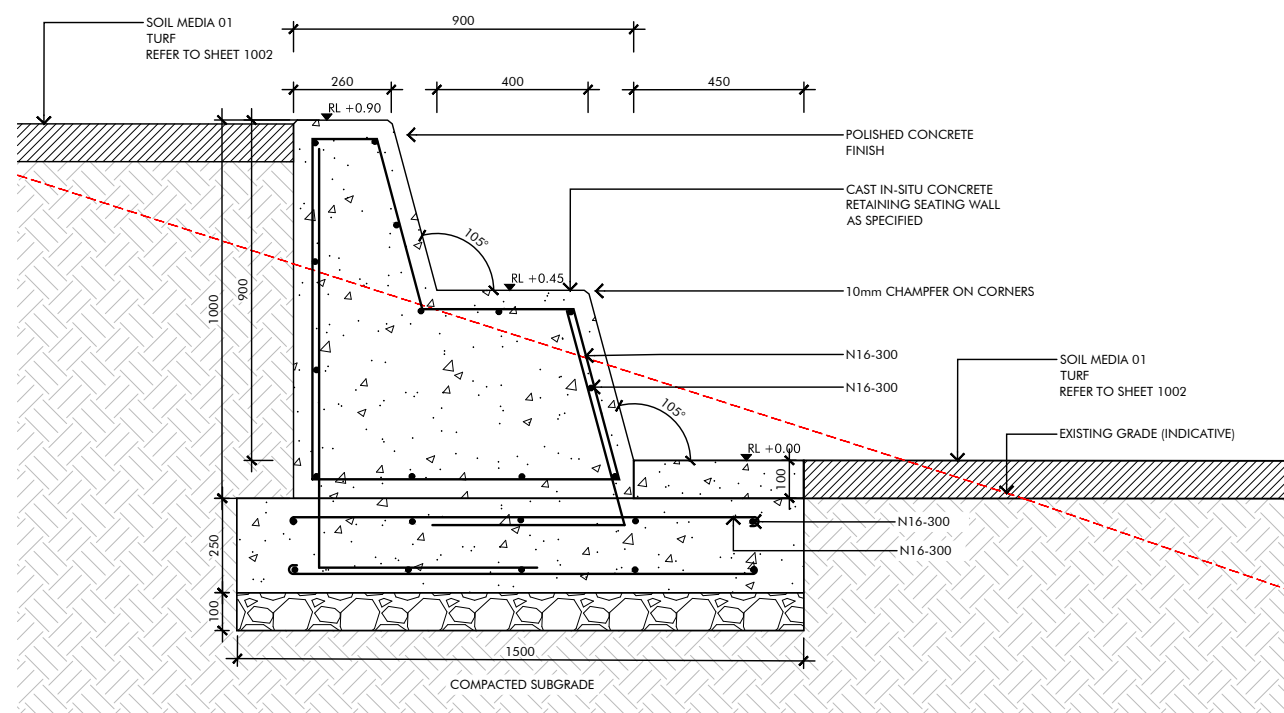


B WALL TYPE 01 - 1.5m CONCRETE WALL
ELEVATION 1:20 @ A3

NOTE:
1. STRUCTURAL ENGINEER TO CONFIRM DESIGN OF WALL & FOOTINGS

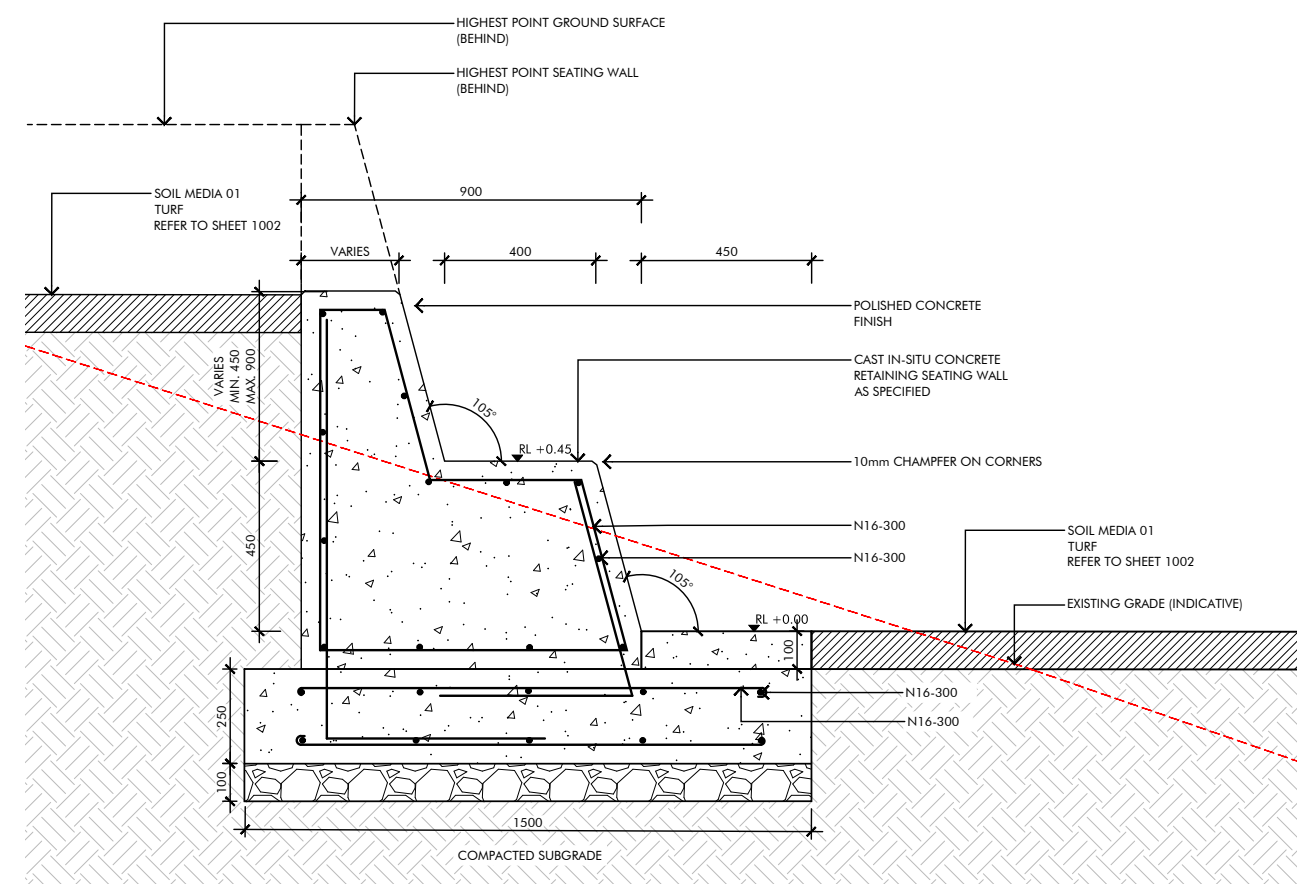
NOTE:

- 1. STRUCTURAL ENGINEER TO CONFIRM DESIGN OF WALL & FOOTINGS
- 2. REFER LEVELS & GRADING PLAN AND SECTIONS FOR LEVELS OF WALL TYPES



A WALL TYPE 02 - CONCRETE SEATING WALL
TYPICAL SECTION 1:20 @ A3

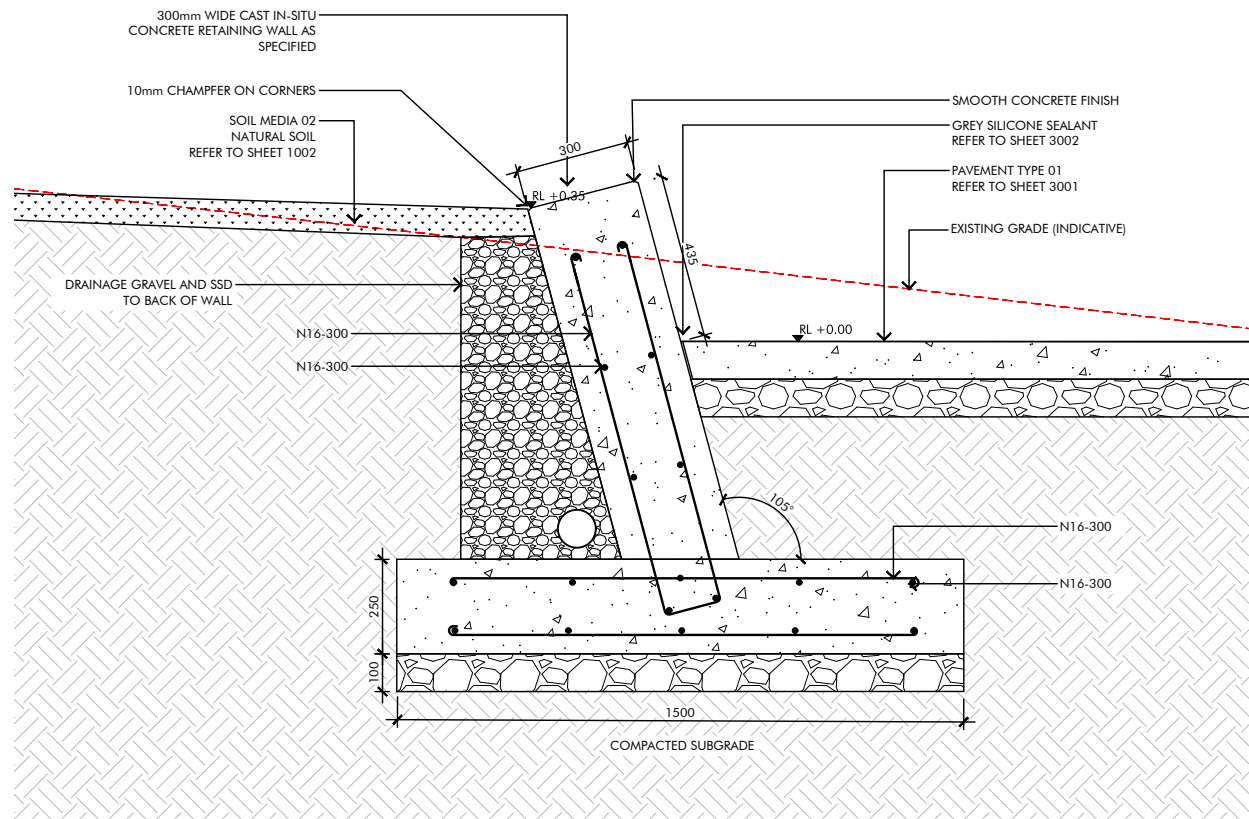
NOTE:
THE HEIGHT OF THE BACKREST OF WALL TYPE 03 VARIES: MIN. 450mm AND MAX. 900mm.



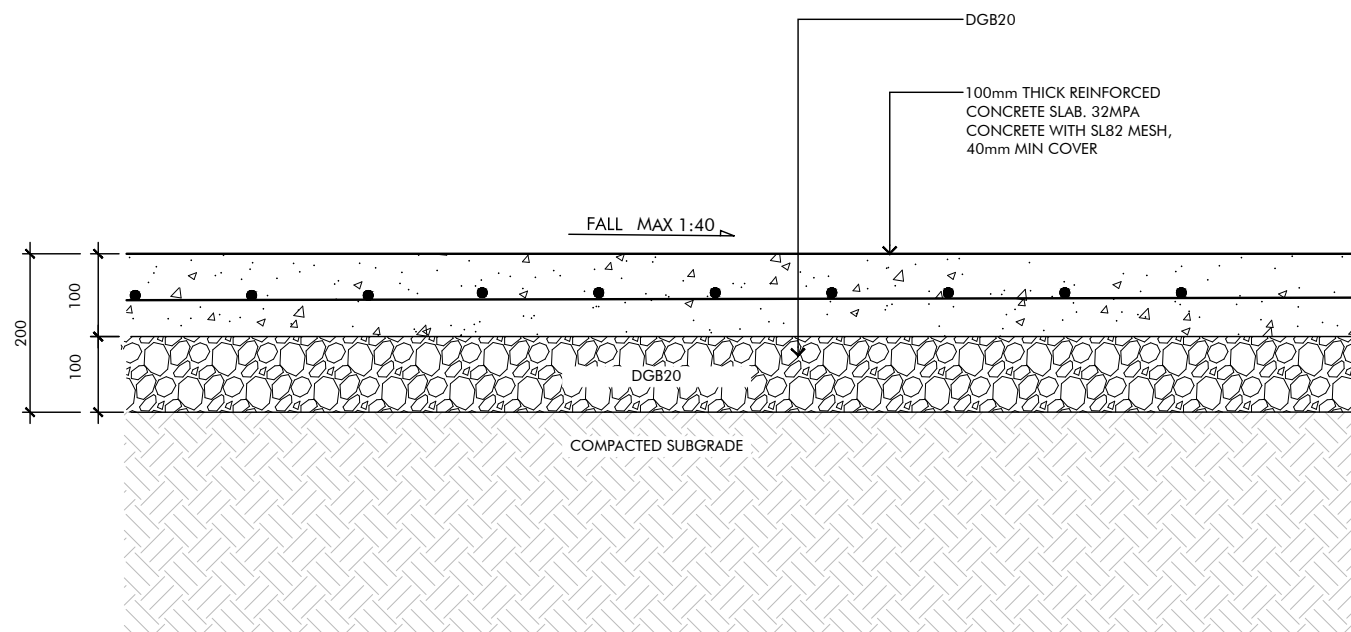
B WALL TYPE 03 - CONCRETE SEATING WALL
TYPICAL SECTION 1:20 @ A3

NOTE:

1. STRUCTURAL ENGINEER TO CONFIRM DESIGN OF WALL & FOOTINGS
2. ENSURE A SMOOTH AND CONTINUOUS TRANSITION BETWEEN 1.5M HIGH CONCRETE WALL (WALL TYPE 01) AND LOW CONCRETE WALL. (WALL TYPE 04)



A WALL TYPE 04 - LOW CONCRETE WALL
TYPICAL SECTION 1:20 @ A3

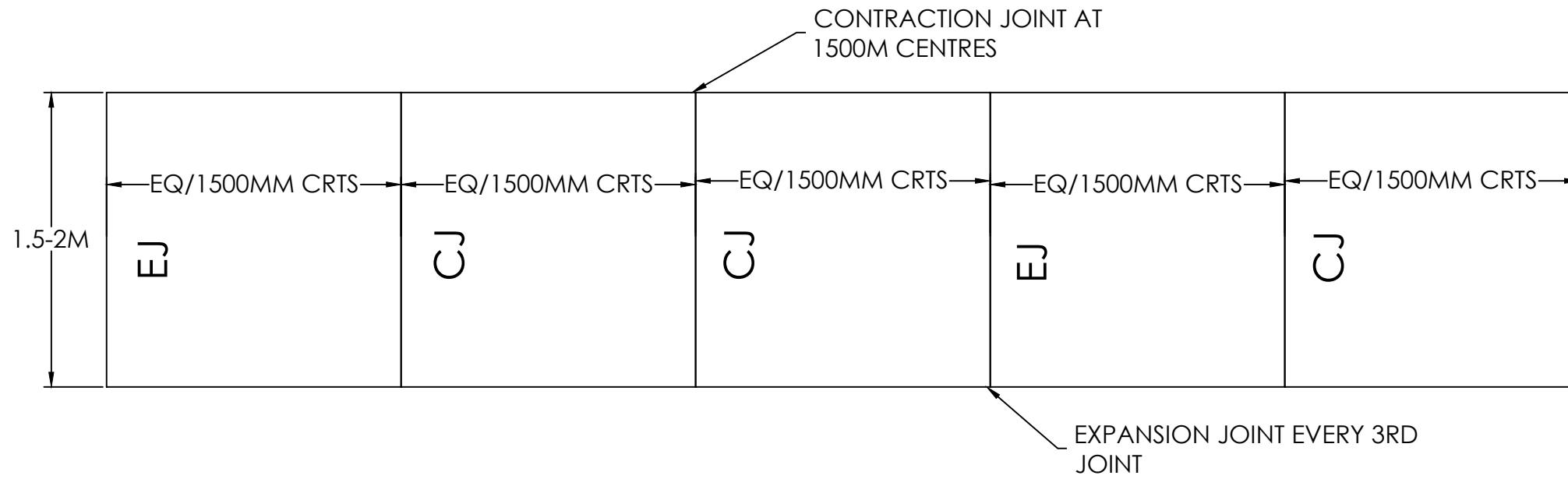


01 PAVING TYPE 1 - CONCRETE PAVEMENT PED.
1:10 @ A3

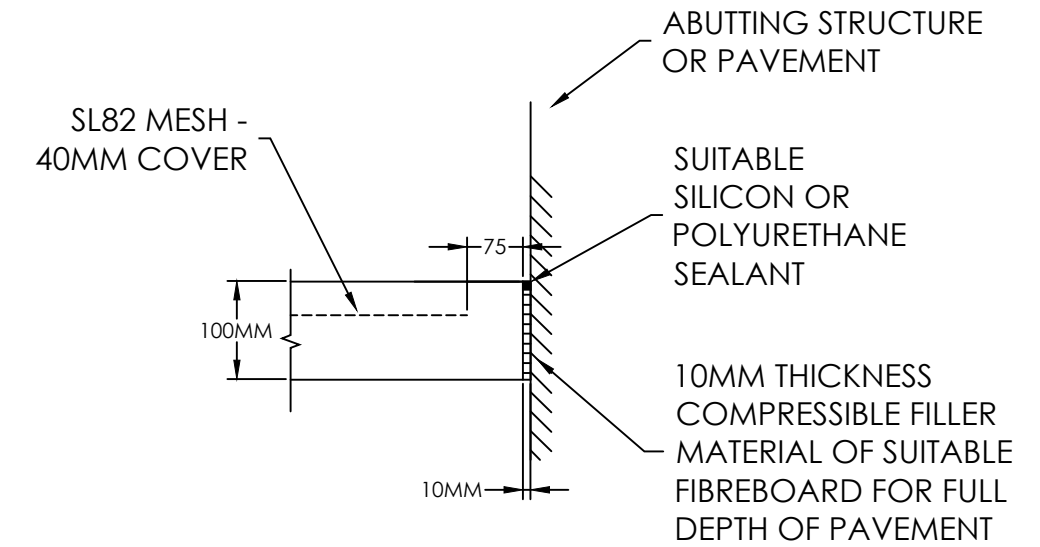
02 SANDBLASTED NUMBER INTO CONCRETE PAVEMENT
FOR VISUAL REFERENCE ONLY

NOTE:

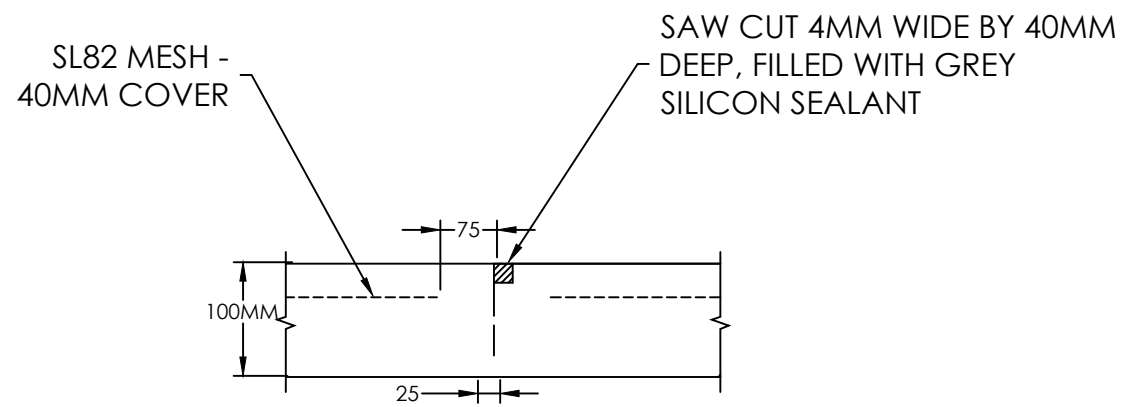
1. SANDBLAST NUMBERS OF THE FIBONACCI SEQUENCE INTO THE PAVEMENT, AS SHOWN ON THE MATERIALS & FINISHES PLAN
2. NUMBERS TO BE 700mm HIGH AND CENTRALLY PLACED ON THE PATHWAY (AS PER PLAN)
3. ENSURE REGULAR AND EQUAL SPACING BETWEEN NUMBERS
4. LIGHT SANDBLAST ONLY TO AVOID UNEVEN PAVEMENT SURFACE (AVOID PONDING AND TRIP HAZARDS)



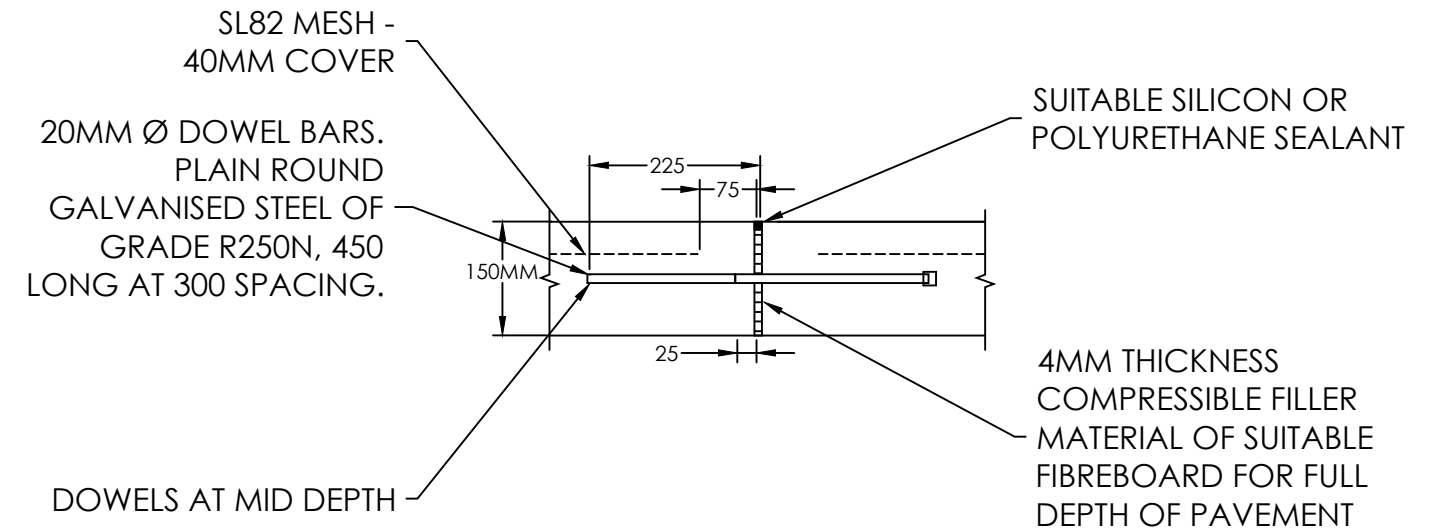
TYPICAL ARRANGEMENT - 1.5M WIDE CONCRETE PATH JOINT SETOUT
 DETAIL 3.00-3
 SCALE 1:10 @ A1



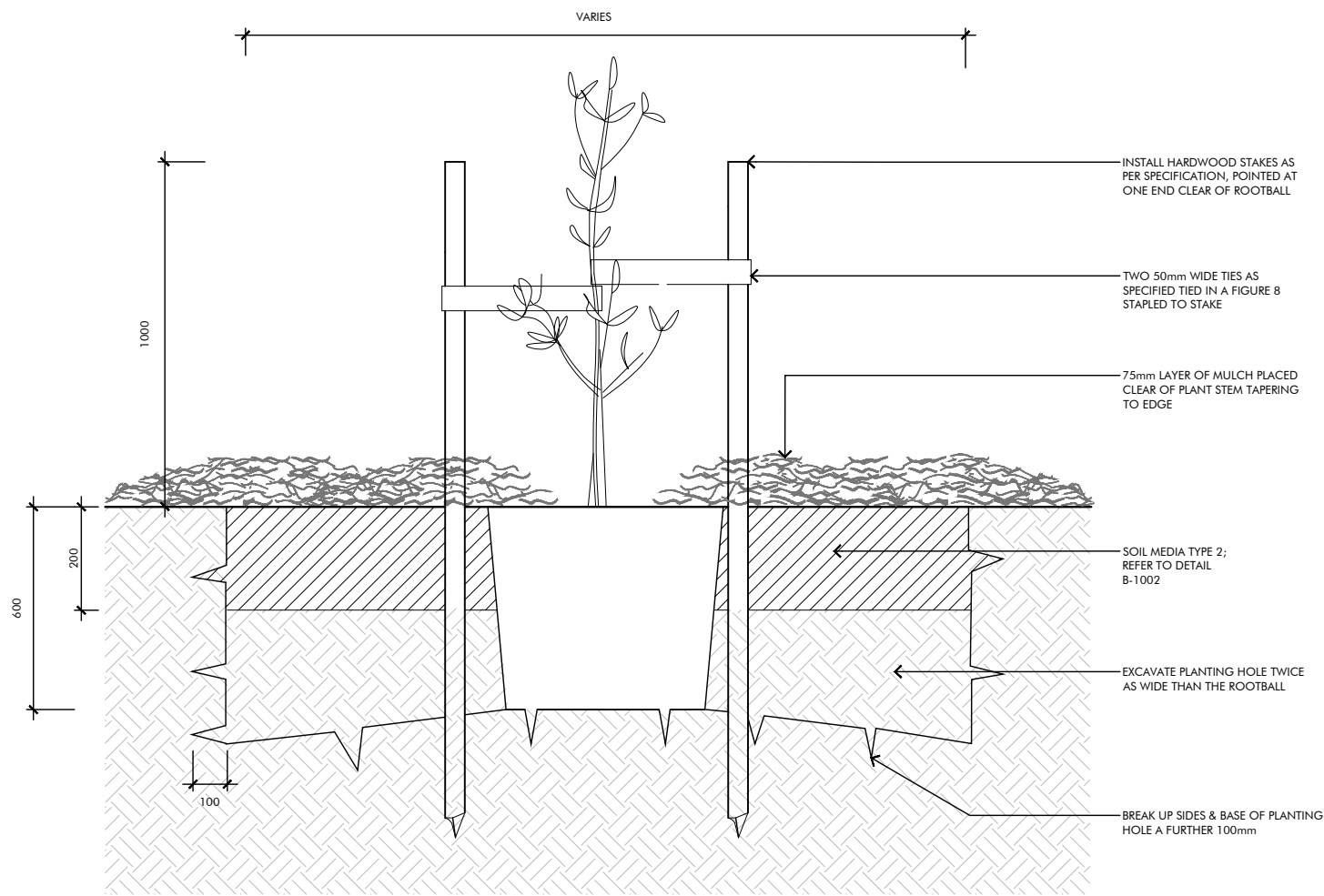
TYPICAL DETAIL - ISOLATION JOINT
 DETAIL 3.00-4
 SCALE 1:10 @ A1



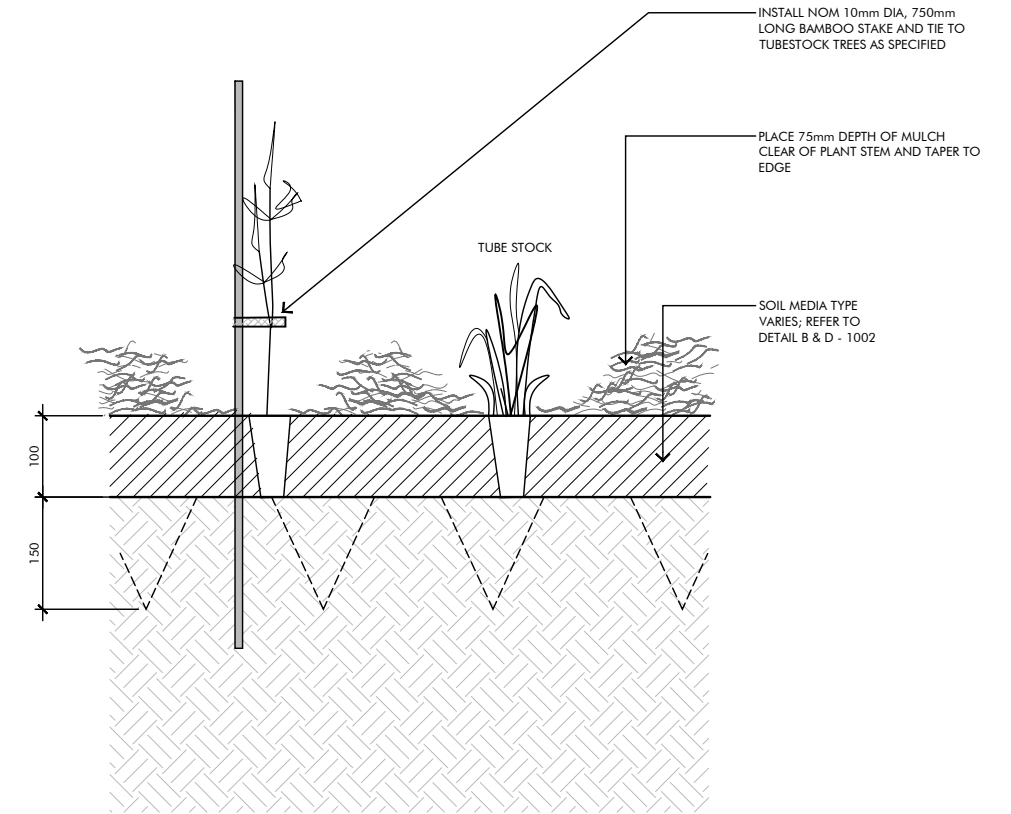
TYPICAL DETAIL - CONTRACTION JOINT
 DETAIL 3.00-6
 SCALE 1:10 @ A1



TYPICAL DETAIL - EXPANSION JOINT
 DETAIL 3.00-5
 SCALE 1:10 @ A1



A TREE PLANTING - TYPICAL DETAIL
1:20 @ A3



B MASS PLANTING - TYPICAL DETAIL
1:10 @ A3