

Uralla Parks - 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 Civille 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. A key plan outlines the sheet boundaries with reference markers to the sheet. For each sheet, a 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:

000 General

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

100 Preparation, Groundworks & Drainage

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

200 Walls, Slabs + Edges

Vertical and horizontal structural elements.

300 Pavements & Civil

Pedestrian and vehicular pavements.

400 Site Structures

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

500 Fences+ Rails

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

600 Water Elements

Ponds, wetlands and water sensitive urban design elements.

700 Furniture + Fittings

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

800 Planting

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

900 Irrigation

Temporary and permanent automatic or manual watering systems.

Component Codes

To assist the contractor Civille 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 2000 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, Civille 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 Civille 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.

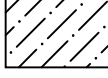
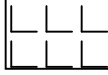






Uralla Parks - Detailed Design Documentation





LIST OF DRAWINGS		
SHEET No.	DESCRIPTION	REVISION
PLANS (RP)		
ROTARY PARK PLANS		
RP-01	COVER PAGE	A
RP-02	DRAWING LIST & LEGEND	A
RP-101	DEMOLITION PLAN	A
RP-102	LEVELS & GRADING PLAN	A
RP-103	MATERIALS & FINISHES PLAN	A
RP-104	PLANTING PLAN	/
SECTIONS (S)		
ROTARY PARK SECTIONS		
RP-S01	SECTIONS	A
RP-S02	SECTIONS	A
RP-S03	SECTIONS	A
RP-S04	SECTIONS	A
DETAILS (D)		
ROTARY PARK PLANS		
D-101	PREPARATION, GROUNDWORKS, & DRAINAGE	A
D-201	WALLS & EDGES	A
D-202	WALLS & EDGES	A
D-203	WALLS & EDGES	A
D-301	PAVEMENTS	A
D-302	PAVEMENTS	A
D-303	PAVEMENTS	A
D-304	PAVEMENTS	A
D-305	PAVEMENTS	A
D-306	PAVEMENTS	A
D-401	SITE STRUCTURES	A
D-402	SITE STRUCTURES	A
D-701	FURNITURE & FITTINGS	A
D-702	FURNITURE & FITTINGS	A

LEGEND

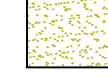

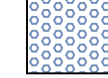



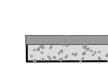






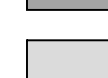




DEMOLITION

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






LEVELS & GRADING

-  CONTOURS MAJOR (1.00m INTERVALS)
-  CONTOURS MINOR (0.25m INTERVALS)
-  + FL 1004.27 FINISH LEVELS
-  + EL 1004.27 EXISTING LEVELS

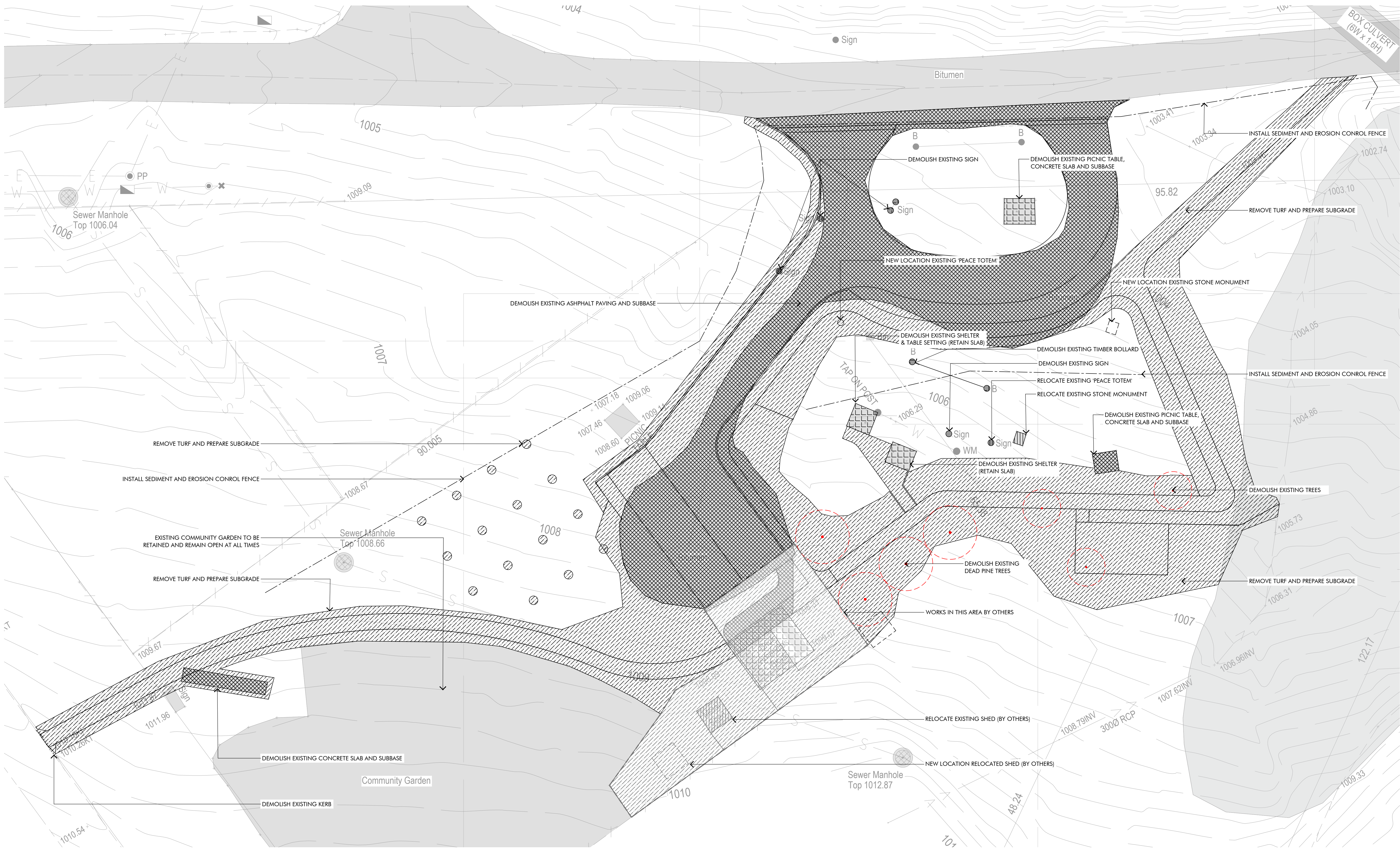
MATERIALS & FINISHES

-  SOIL MEDIA TYPE 1 - TURF
-  SOIL MEDIA TYPE 2 - NATURAL SOIL
-  SOIL MEDIA TYPE 3 - SWALE
-  EDGE TYPE 1 - 150mm STANDARD KERB
-  EDGE TYP 2 - CONCRETE EDGE
-  EDGE TYPE 3 - GRANITE BLOCKS
-  EDGE TYPE 4 - STANDARD KERB & GUTTER
-  EDGE TYPE 5 - STANDARD DISH DRAIN
-  KERB RAMP TYPE 1 - STANDARD KERB RAMP
-  PAVING TYPE 1 - CONCRETE PAVEMENT (AT GRADE)
-  PAVING TYPE 1 - CONCRETE PAVEMENT
-  PAVING TYPE 2 - DECOMPOSED GRANITE PAVEMENT
-  PAVING TYPE 3 - ASPHALT PAVEMENT (AT GRADE)
-  PAVING TYPE 3 - ASPHALT PAVEMENT
-  PAVING TYPE 4 - GRANITE PAVERS
-  PAVING TYPE 5 - STEEL GRATING
-  FURNITURE TYPE 1 - ACCESSIBLE TABLE SETTING
-  FURNITURE TYPE 2 - NATURE PLAY ELEMENTS

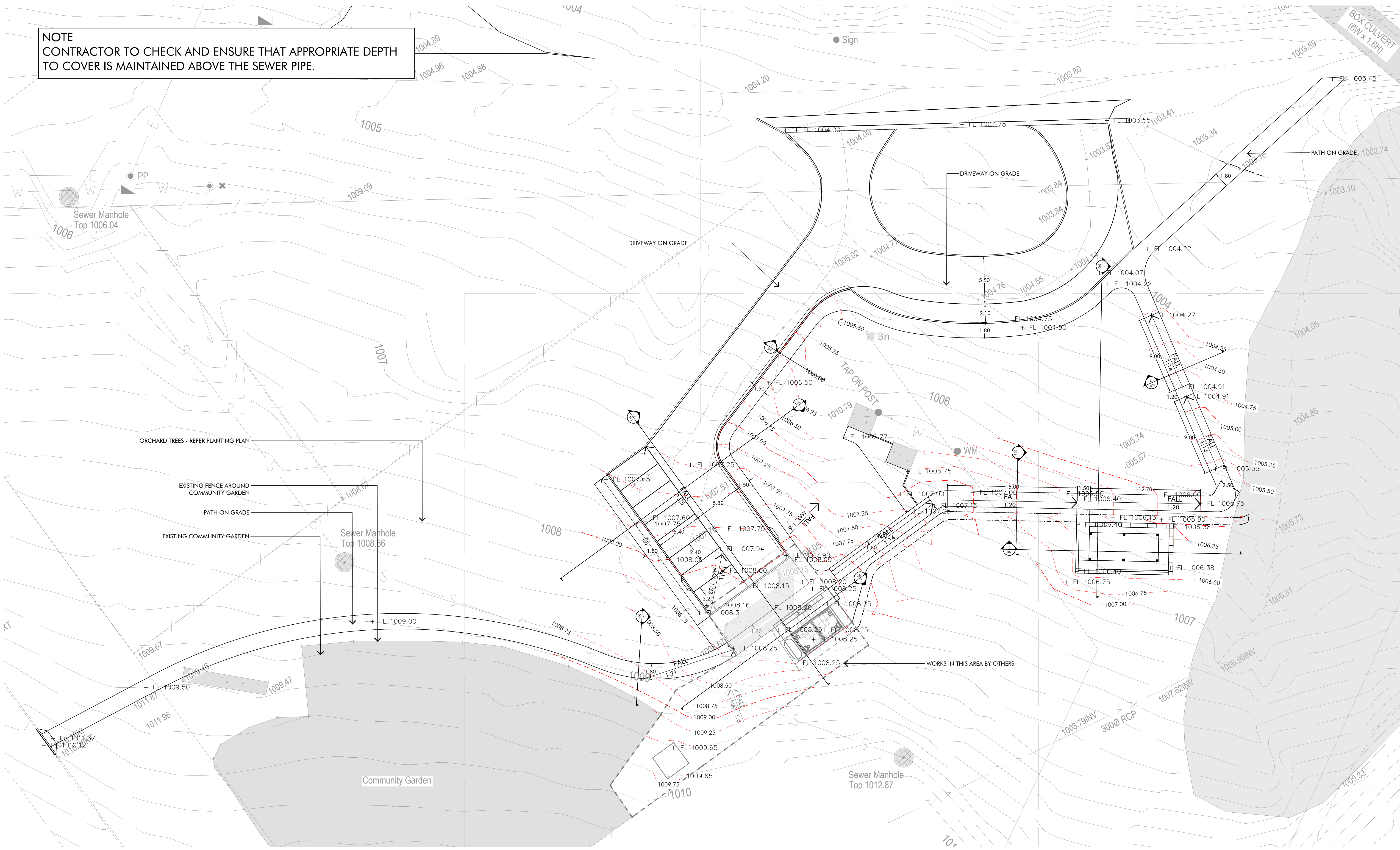
PLANTING

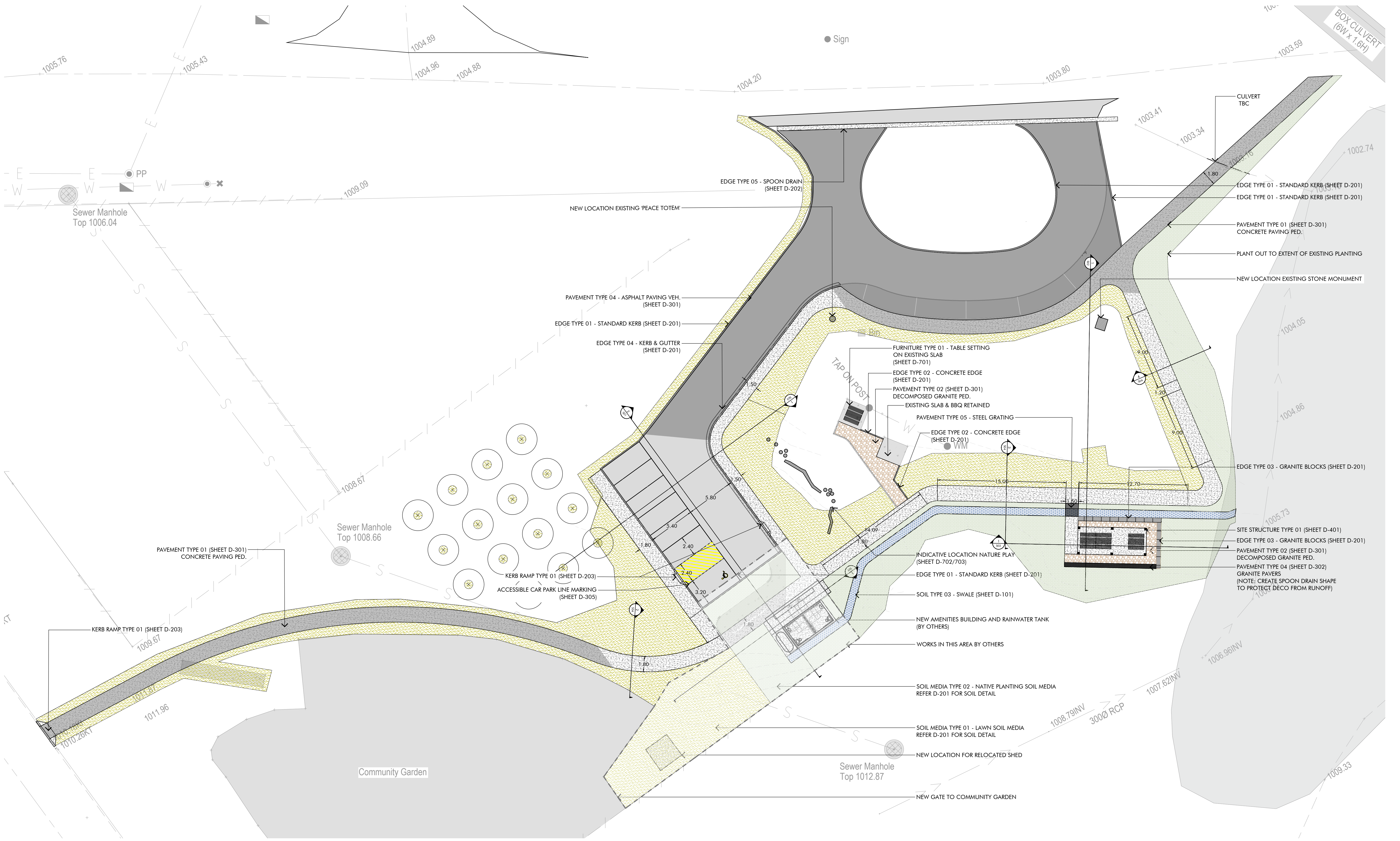
-  TURF
-  SWALE PLANTING
-  NATIVE MASSED PLANTING 1
-  NATIVE MASSED PLANTING 2
-  TREE PROPOSED

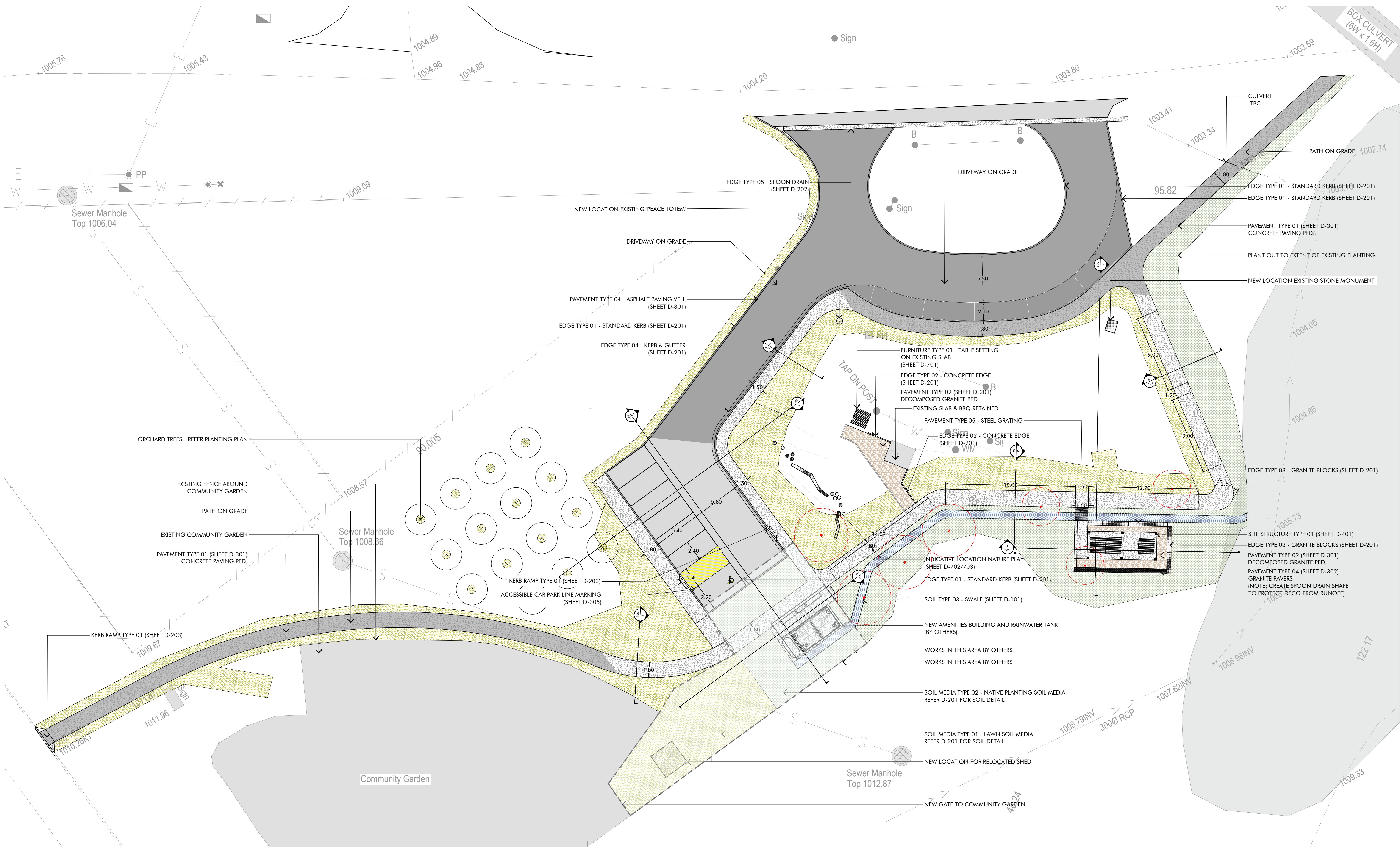


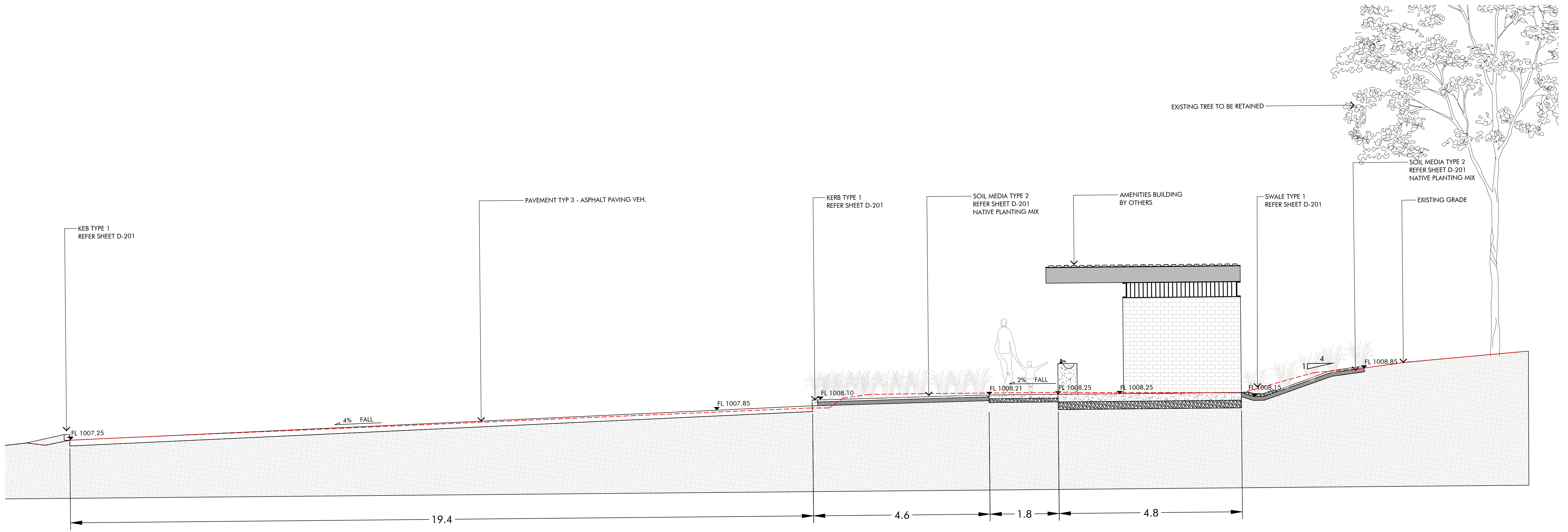


NOTE
CONTRACTOR TO CHECK AND ENSURE THAT APPROPRIATE DEPTH
TO COVER IS MAINTAINED ABOVE THE SEWER PIPE.

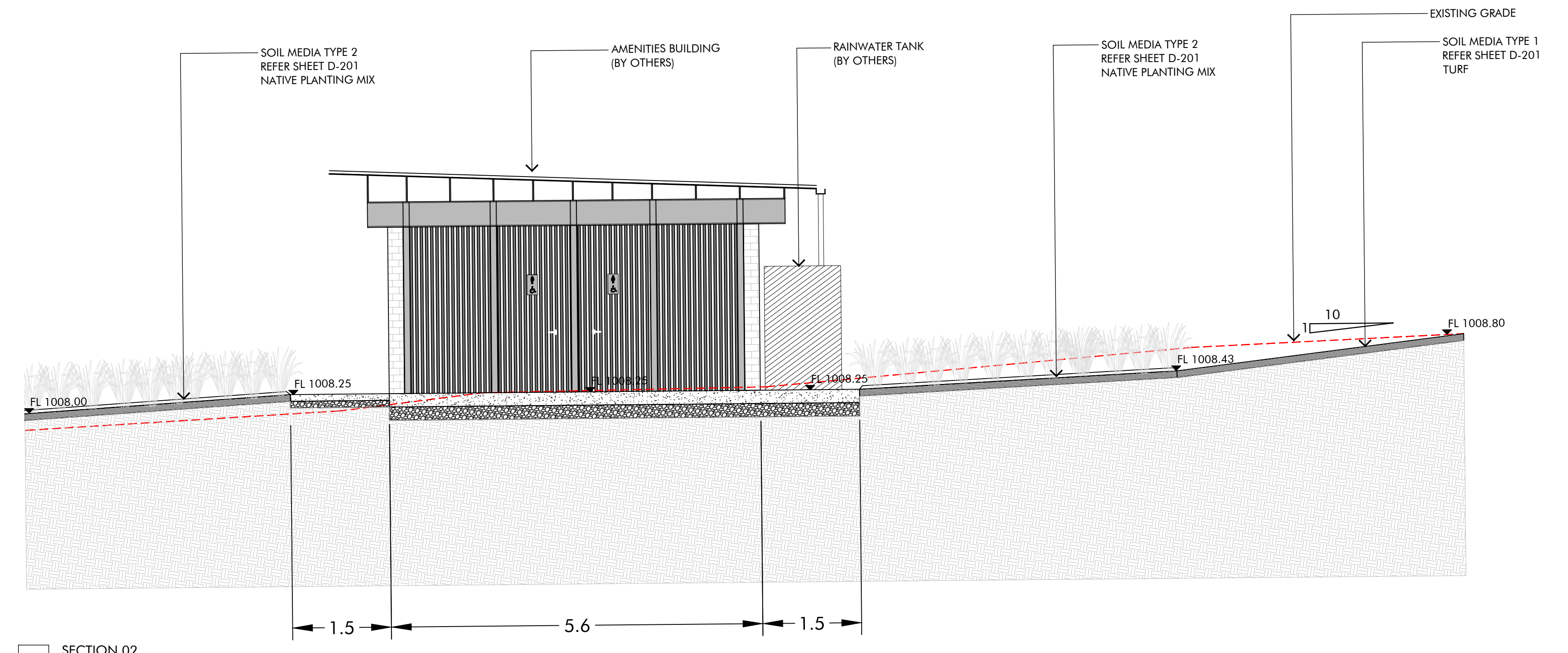




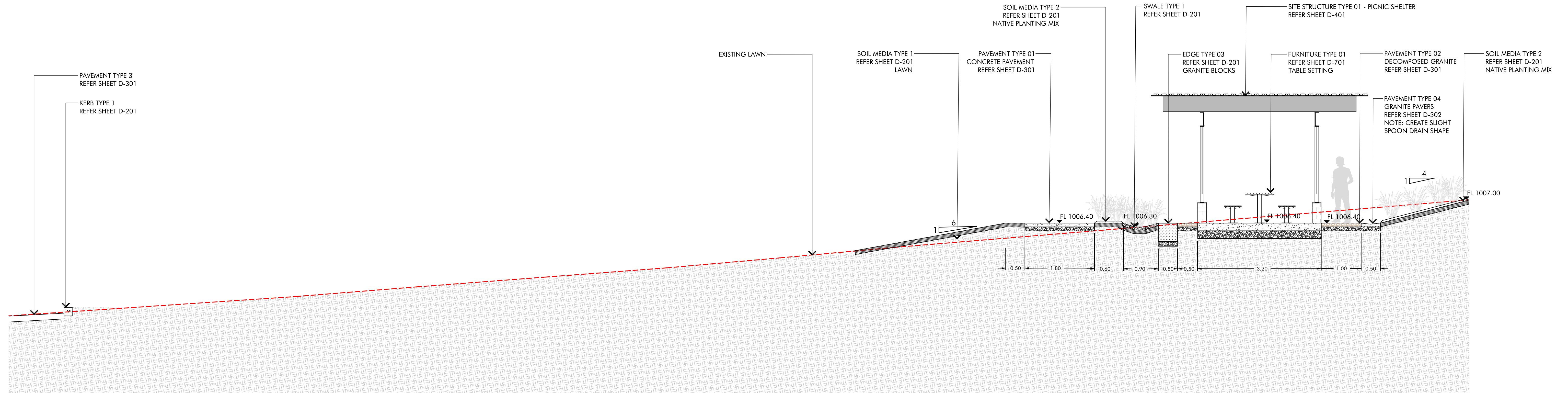




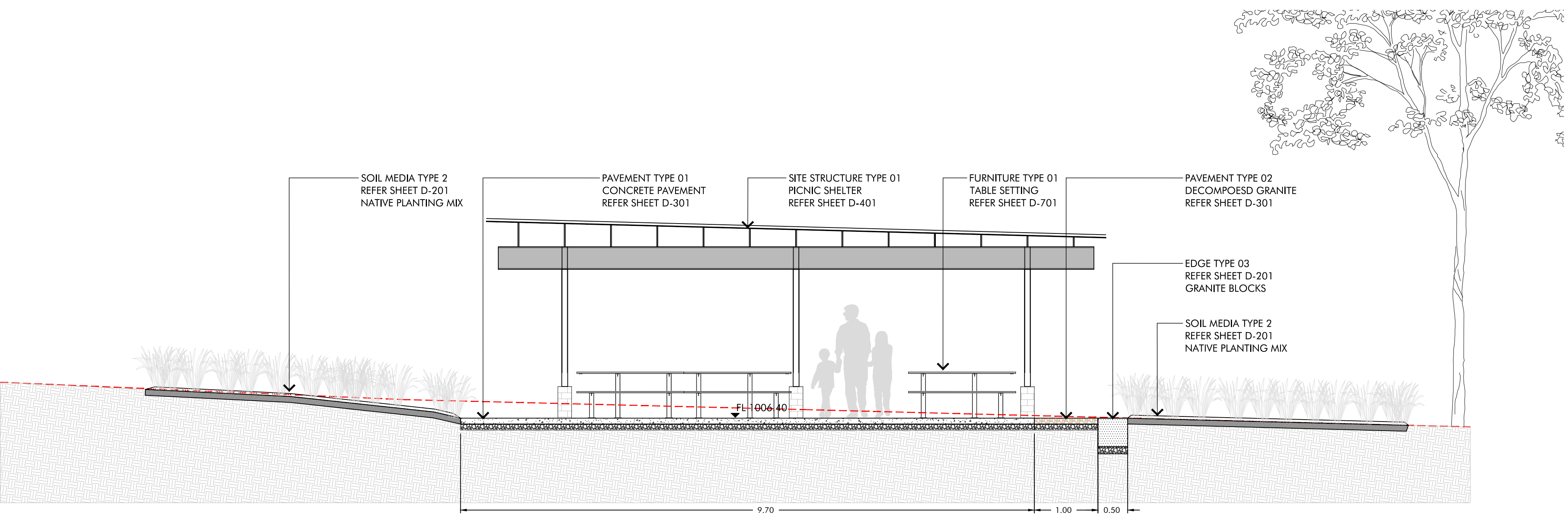
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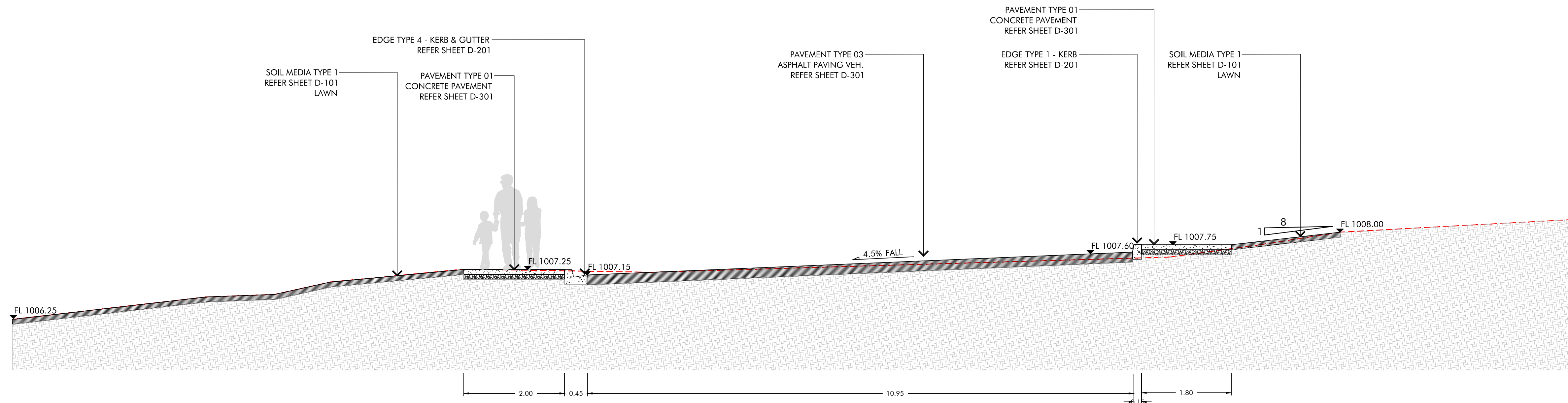
02 SECTION 02
SCALE 1:50 @ A1



01 SECTION 01
SCALE 1:50 @ A1



02 SECTION 02
SCALE 1:50 @ A1



01 SECTION 01
SCALE 1:50 @ A1

Client

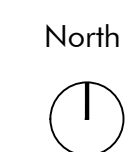
Project Name
Uralla Parks
Project No.
2145
Address
Uralla, NSW

Key Plan

Issue Log			
Rev	Description	By/Checked	Date
A	Draft for review	JV/DK	29/04/2022

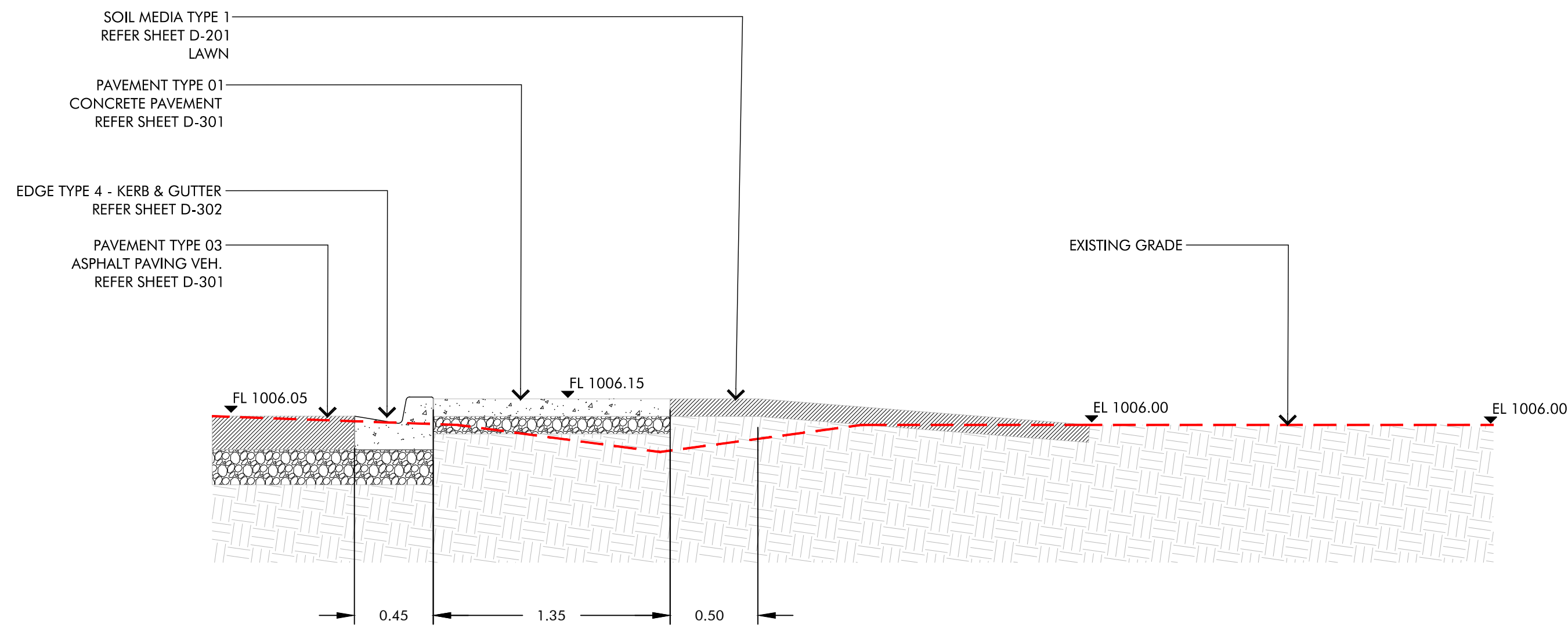
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All dimensions are in metres unless otherwise noted.
Do not scale from this drawing.

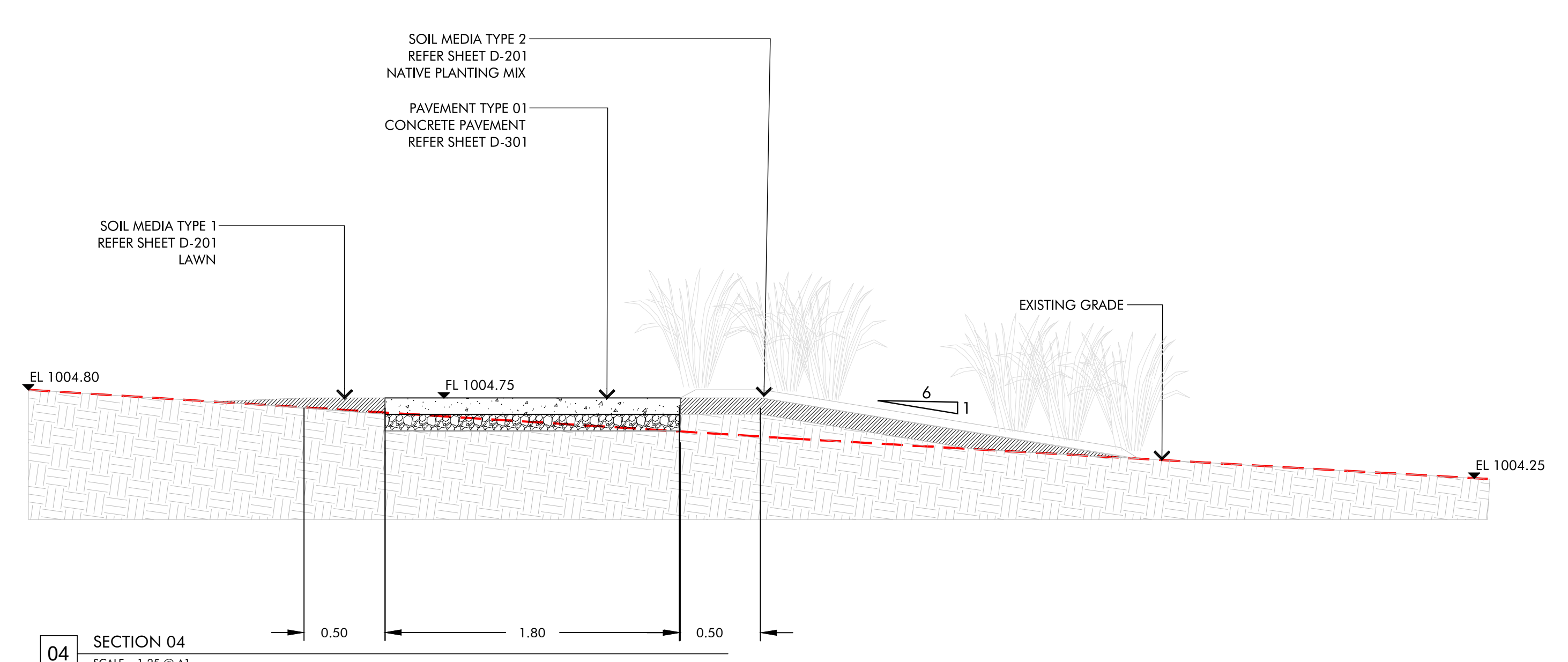


Phase
Tender Documentation
Sheet Title
Sections
Sheet No.
RP-S03

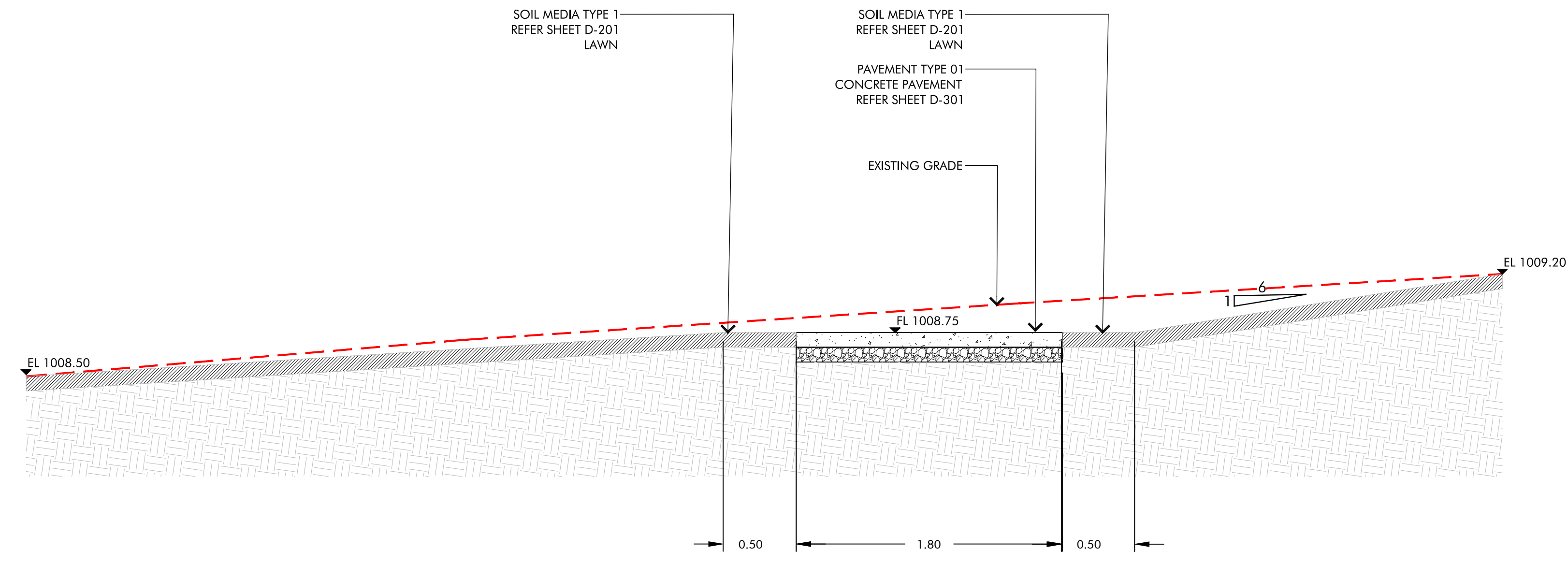
Rev
A



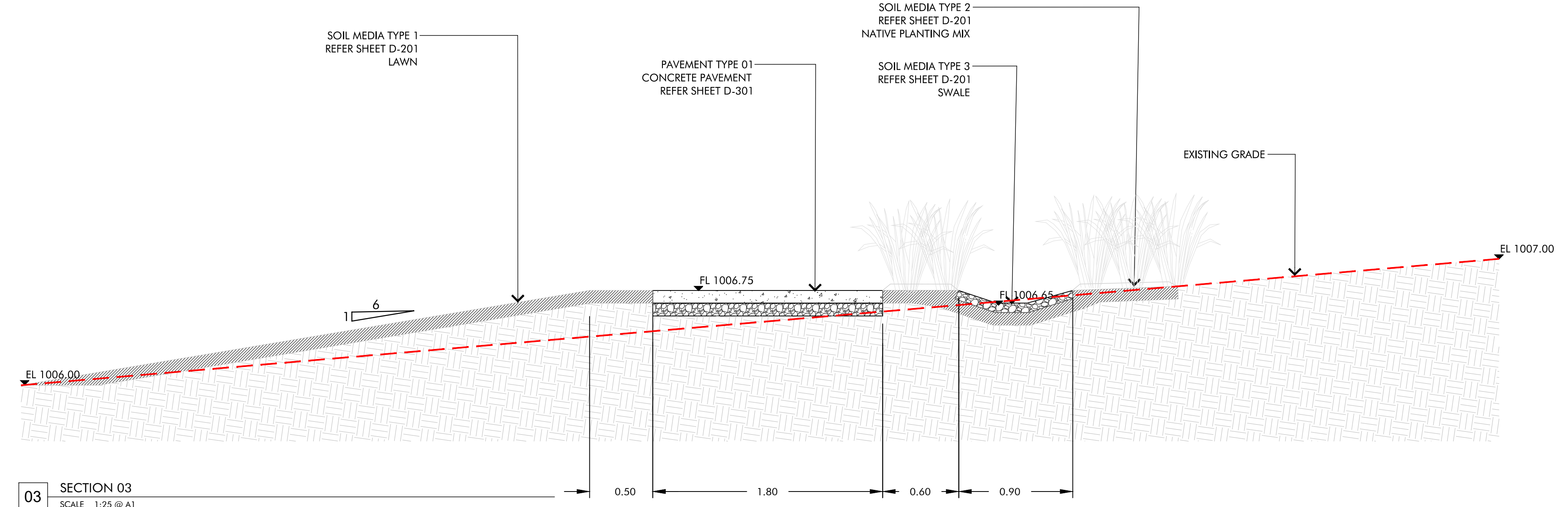
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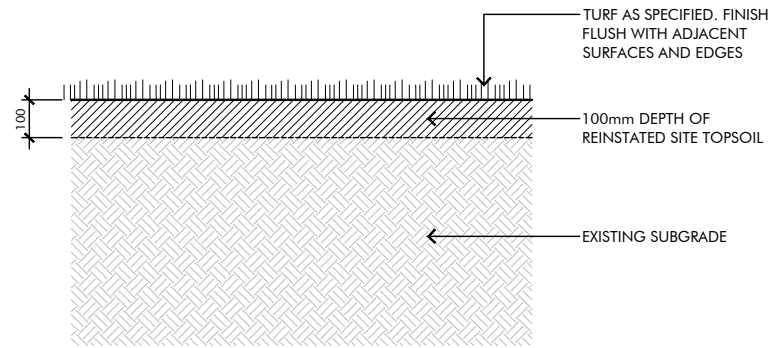
04 SECTION 04
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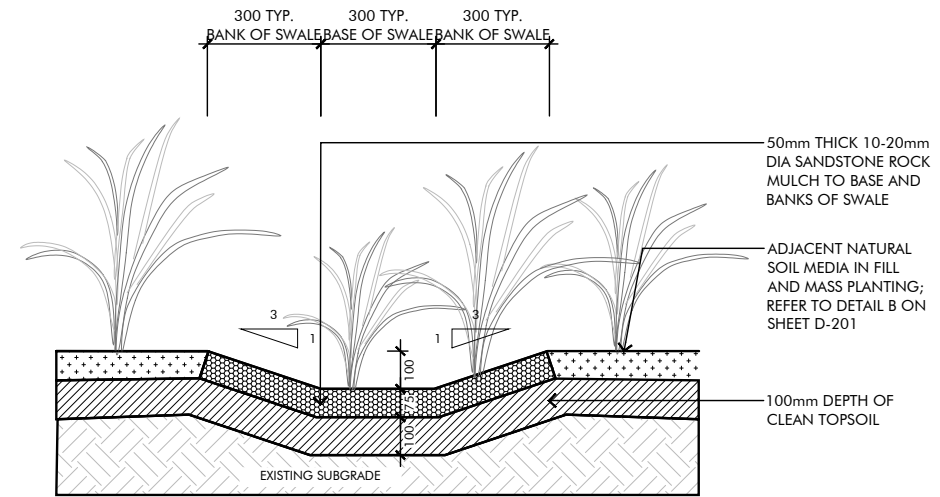
02 SECTION 02
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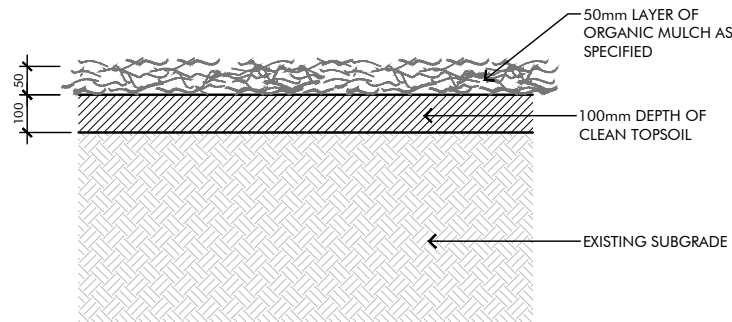
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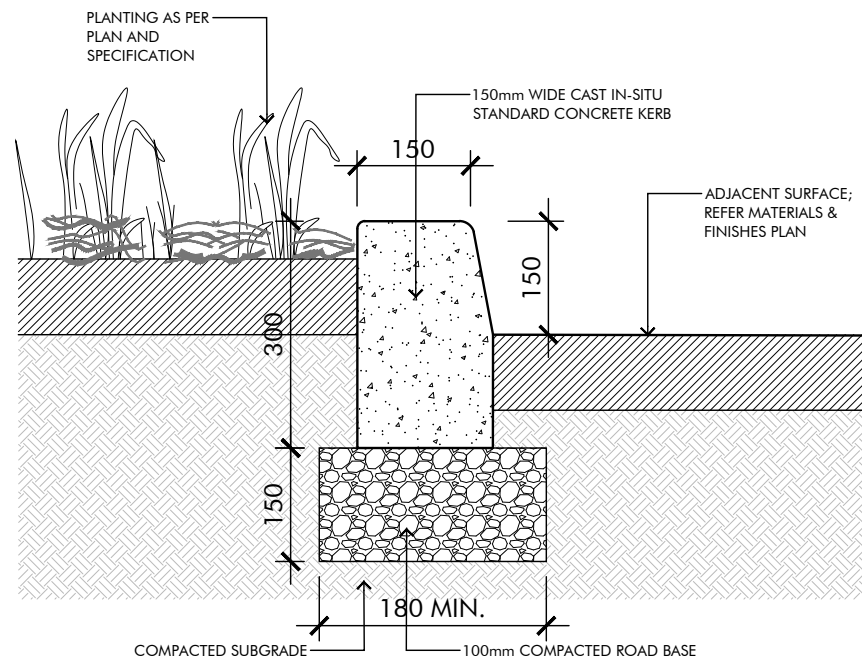
01 SOIL MEDIA TYPE 1 - TURF
1:10 @ A3



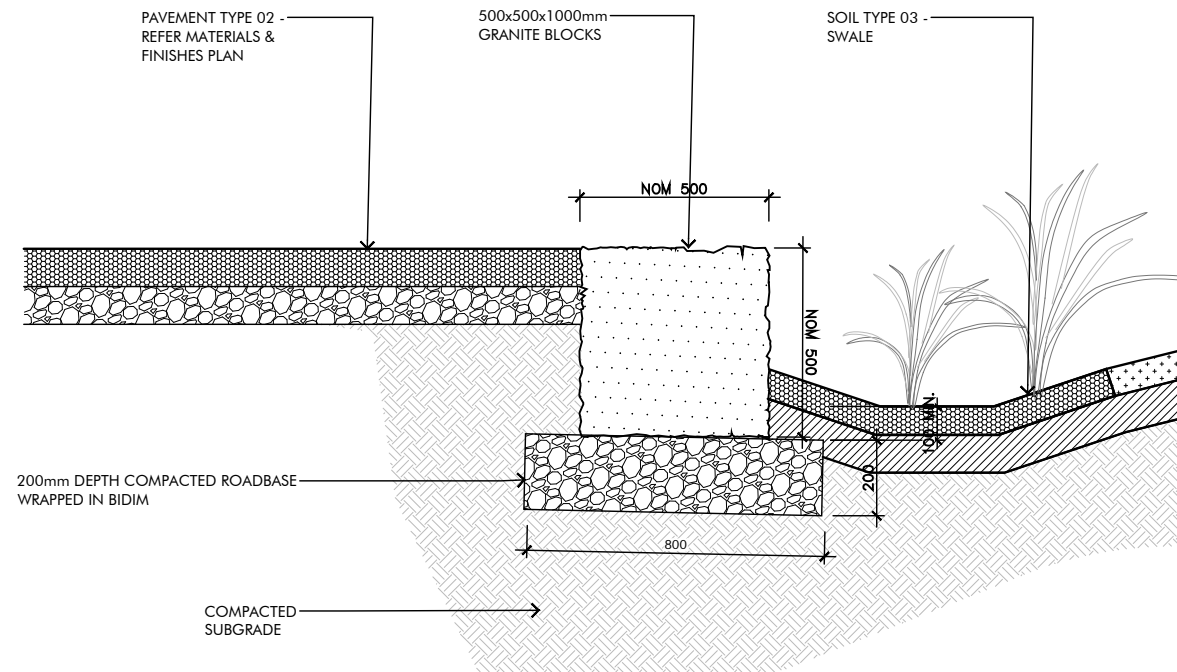
03 SOIL MEDIA TYPE 3 - SWALE
1:20 @ A3



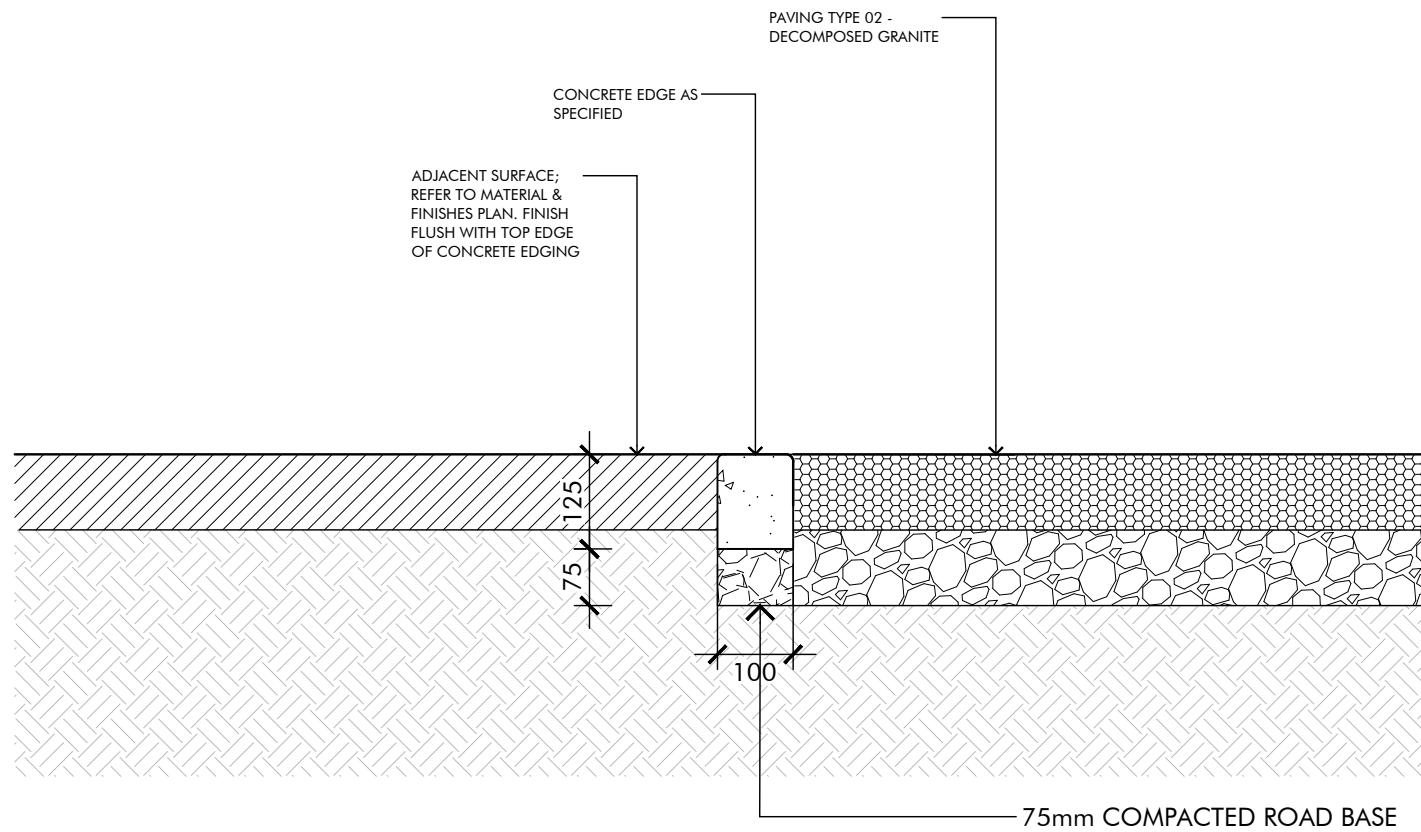
02 SOIL MEDIA TYPE 2 - NATURAL SOIL MEDIA
1:10 @ A3



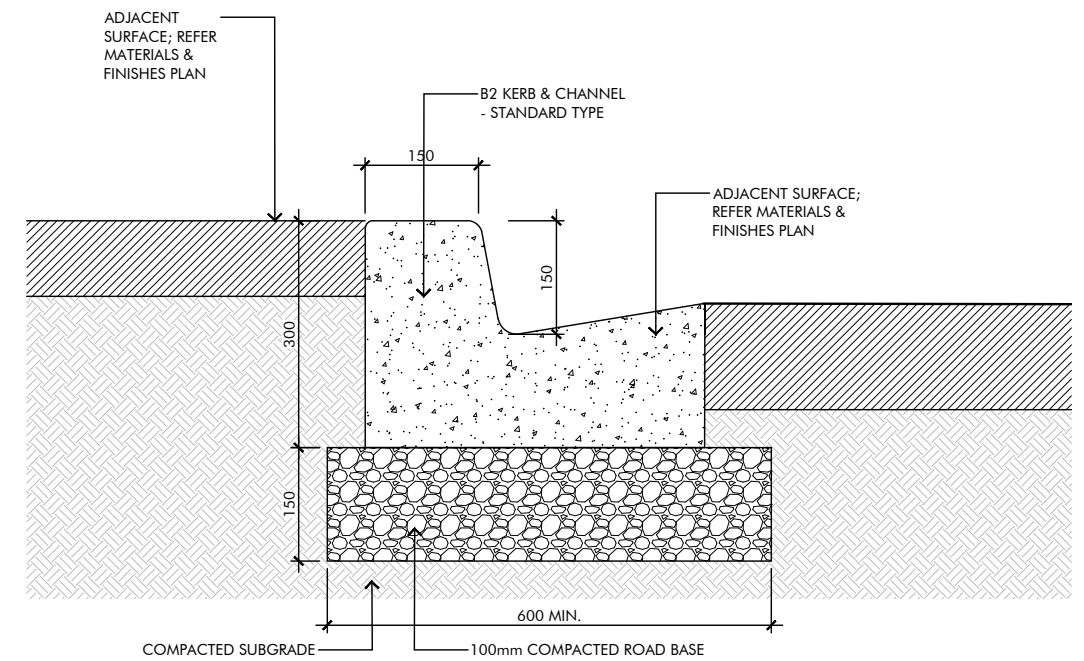
01 EDGE TYPE 1 - 150mm STANDARD KERB
1:10 @ A3



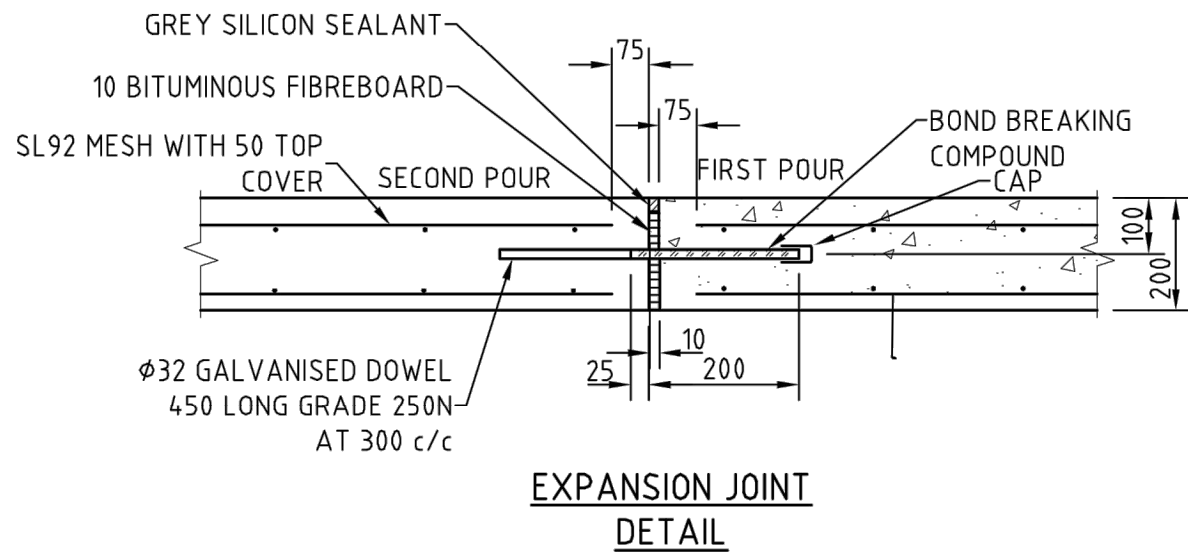
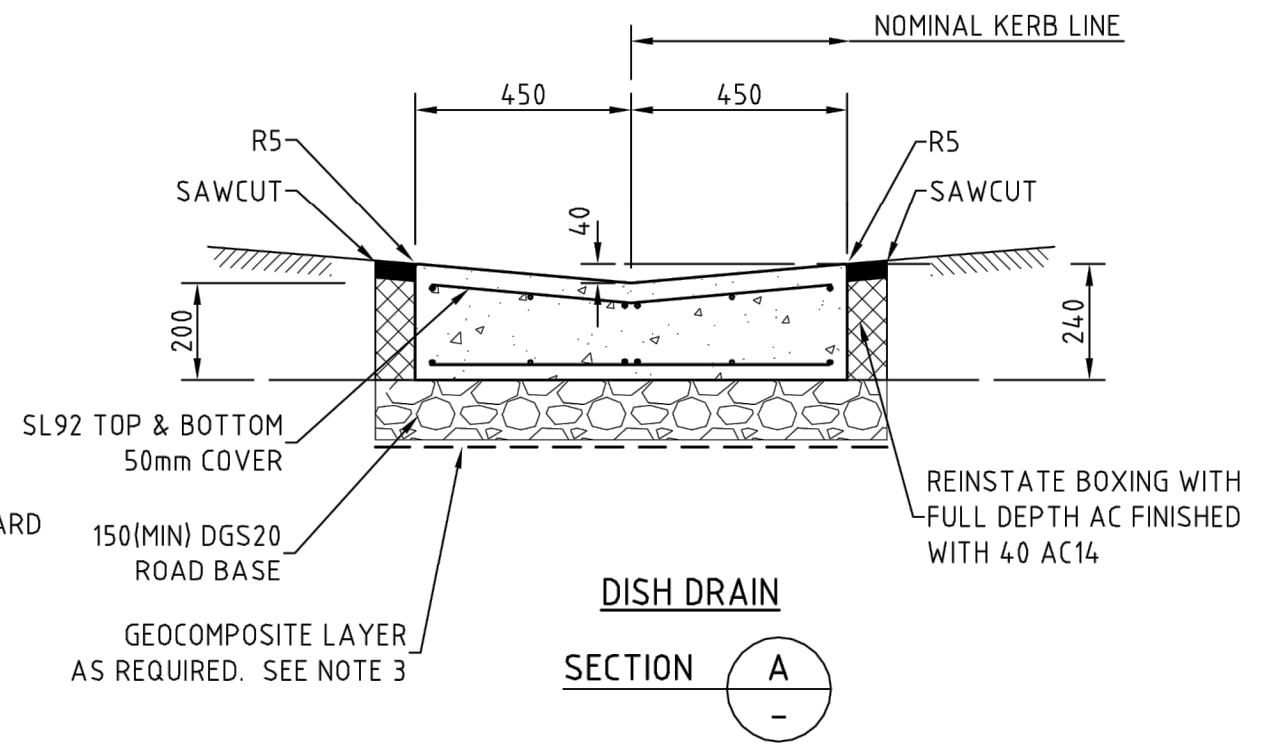
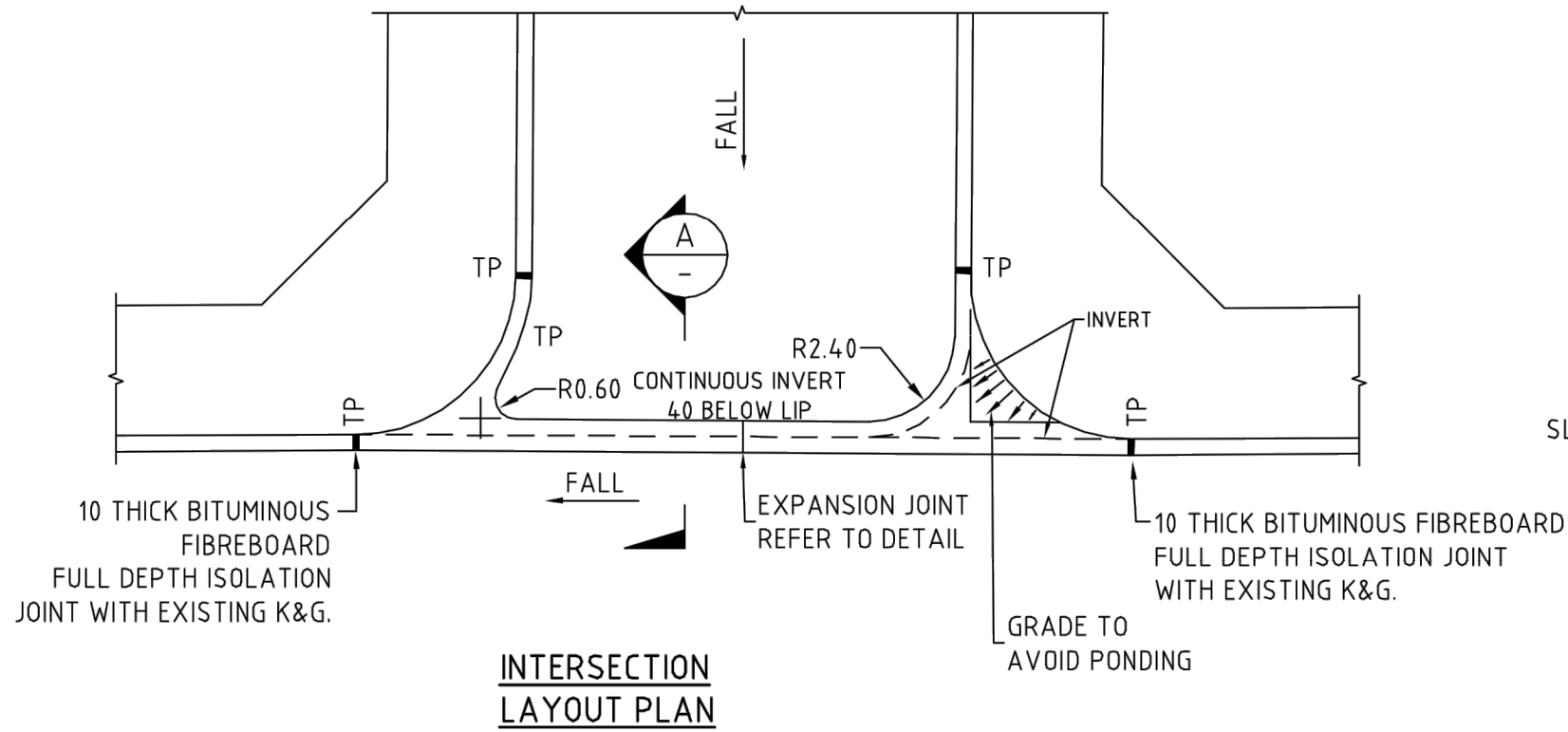
01 EDGE TYPE 3 - GRANITE BLOCKS
1:20 @ A3



02 EDGE TYPE 2 - CONCRETE EDGE
1:10 @ A3



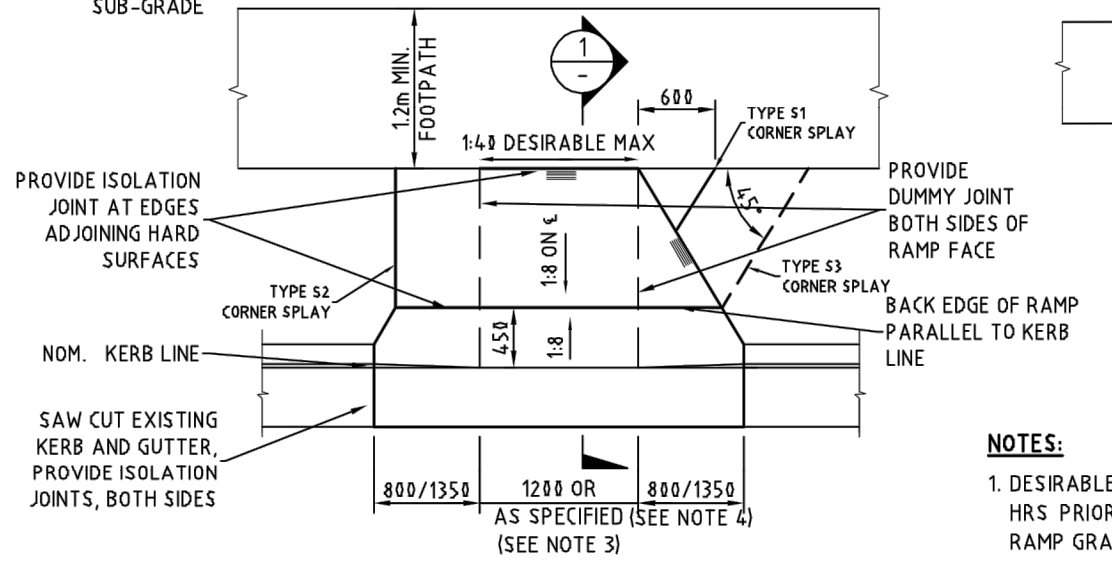
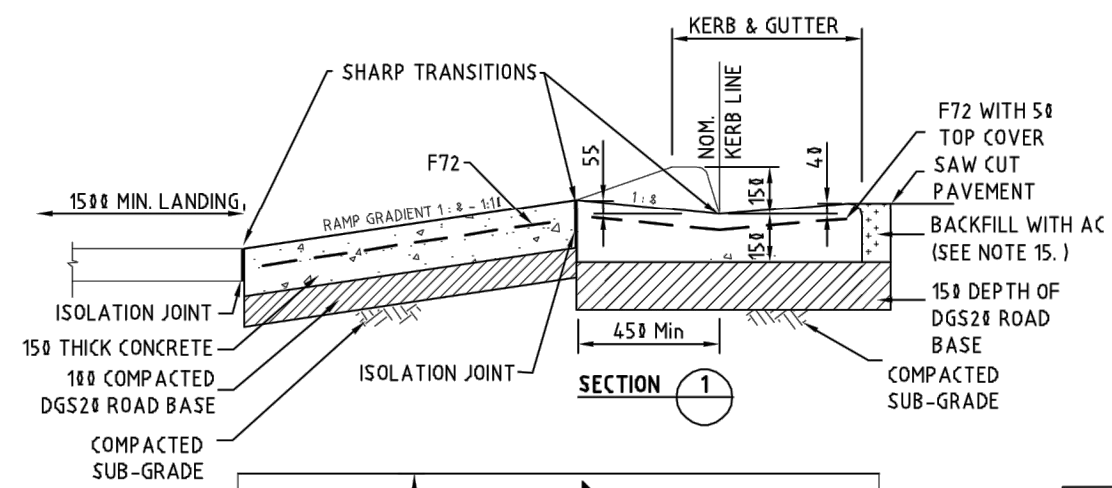
04 EDGE TYPE 4 - STANDARD KERB & GUTTER
1:10 @ A3



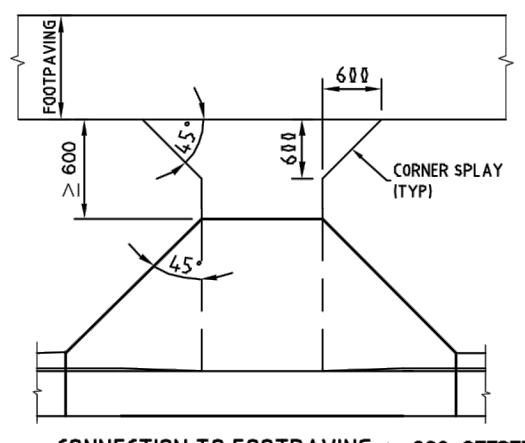
NOTES:

1. THE PAVEMENT DESIGN ASSUMES A MINIMUM CBR OF 2% AND DESIGN HEAVY VEHICLE AXLE GROUPS (DHVAG) OF 5×10^5 .
2. EXISTING ROAD BASE CAN BE UTILISED IF 150 THICK (MIN) AND CAN BE COMPACTED TO 95% MODIFIED. OTHERWISE REPLACE WITH 150 DGS20 ROAD BASE COMPACTED TO 95% MODIFIED.
3. FOR NEW PLACED ROAD BASE A GEOCOMPOSITE LAYER (30/30 GRID & RMS CLASS C1 GEOTEXTILE) SHALL BE PLACED WHERE THE SUBGRADE CBR IS <3%. FOR SUBGRADE <2% OR DHVAG $>5 \times 10^5$ USE SUBBASE OF 150mm 5MP_a LEAN MIX CONCRETE WITH RMS CLASS C1 GEOTEXTILE/GEOCOMPOSITE AS A DEBONDING LAYER BETWEEN SUBBASE AND CONCRETE BASE.
4. CONCRETE TO BE SP40H RAPID SET MIX TO RMS/RTA SPEC RTA3201. STEEL REINFORCEMENT TO BE GALVANIZED WHEN SP40H CONCRETE IS USED. SP40H PAVEMENT IS TO BE CLOSED TO TRAFFIC FOR 12 HOURS AFTER POURING.
5. ALTERNATIVE SP40 CONCRETE MAY BE USED IF THE SUPERINTENDENT APPROVES A 2 DAY ROAD CLOSURE TO TRAFFIC AFTER POURING.
6. ALL JOINTS TO EXISTING WORKS TO BE SAWCUT.

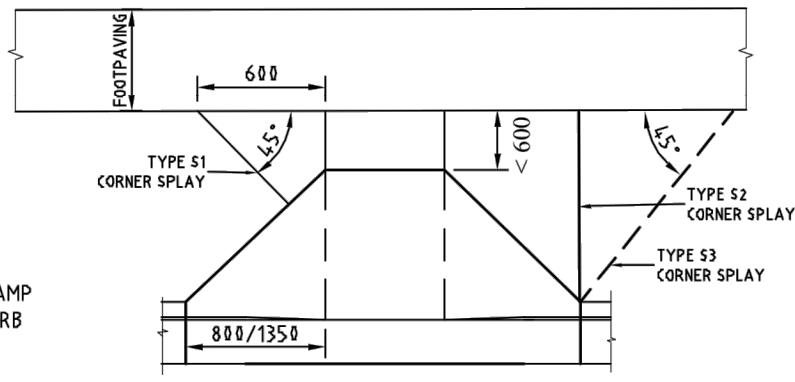
05 EDGE TYPE 5 - CONCRETE SPOON DRAIN
1:10 @ A3



LOW LEVEL KERB RAMP - TYPICAL PLAN



CONNECTION TO FOOTPAVING > 600 OFFSET

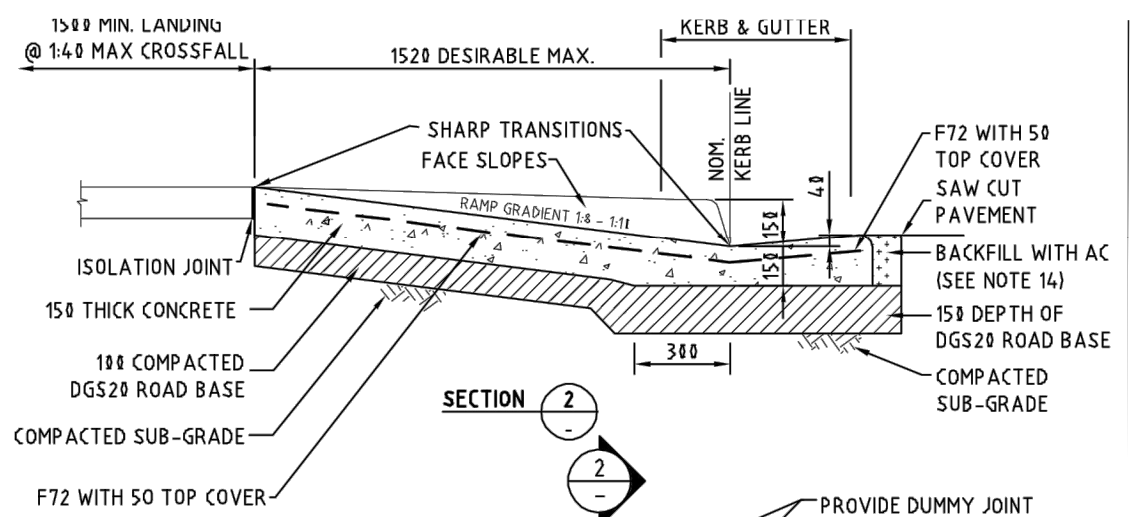


CONNECTION TO FOOTPAVING < 600 OFFSET

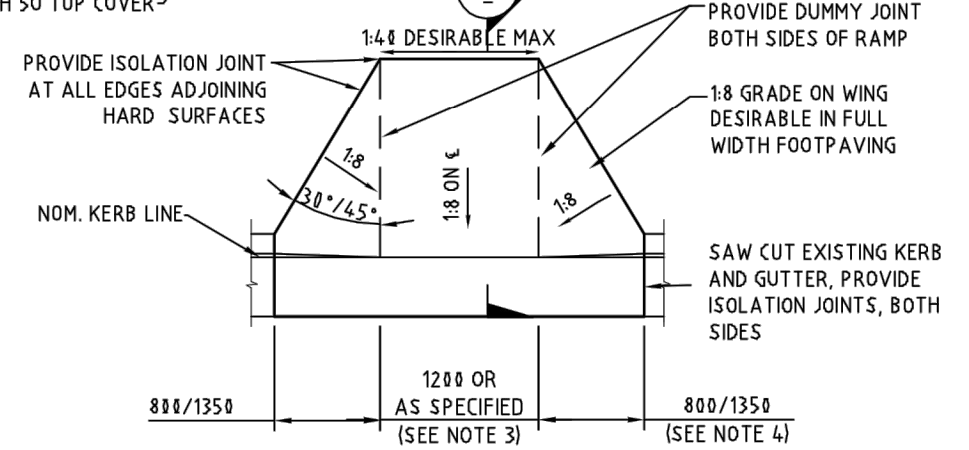
NOTES:

- DESIRABLE KERB RAMP GRADE IS 1 IN 8 FULL WIDTH. SUPERINTENDANT IS TO BE NOTIFIED 48 HRS PRIOR TO CONCRETE POUR IF RAMP GRADE IS NOT 1 IN 8. TACTILES ARE REQUIRED IF RAMP GRADE IS NOT 1 IN 8.
- MAXIMUM KERB RAMP GRADE IS 1 IN 8 FULL WIDTH
- KERB RAMP WIDTHS:
 - 1000 MINIMUM
 - 1200 DESIRABLE GENERALLY
 - 1350 DESIRABLE IN FULL WIDTH FOOTPAVING AND HIGH PEDESTRIAN TRAFFIC LOCALITIES
 - AS WIDE AS POSSIBLE AT MARKED FOOT CROSSINGS WITHIN PAINT LINES. AT TRAFFIC SIGNALS OUTSIDE EDGE OF KERB RAMP TO ALIGN WITH OUTSIDE CROSSING LINE. PROVIDE 300 MIN KERB RAMP SEPARATION WHERE POSSIBLE.
- PROVIDE 800 WINGS IN GRASS VERGES. PROVIDE 1350 WINGS IN FULL WIDTH CONCRETE FOOTPAVING. WING WIDTHS TO BE ADJUSTED TO ALLOW FOR ADJOINING STRUCTURES AS REQUIRED.
- KERB RAMP CENTRE LINES ARE TO BE ALIGNED WITH THE PEDESTRIAN DIRECTION OF TRAVEL AND THE KERB RAMP ON THE OPPOSITE SIDE OF THE ROAD.
- BACK EDGE OF RAMP TO BE PARALLEL WITH KERB LINE TANGENT IN FULL WIDTH FOOTPAVING. BACK EDGE OF RAMP TO BE SQUARE TO STRIP FOOTPAVING.
- PROVIDE SHARP TRANSITIONS AROUND KERB RAMP & AT CHANGES OF GRADE AT WINGS & GUTTER
- CONCRETE'S STRENGTH GRADE N25 WITH 20mm MAXIMUM SIZE AGGREGATE IN ACCORDANCE WITH AS3600.
- ROAD BASE IS TO BE CRUSHED ROCK OR CRUSHED CONCRETE GRADED TO DGS20 OR DGB20.
- KERB RAMP TO BE CAST INTEGRAL WITH GUTTER.

A SITE SPECIFIC DESIGN IS TO BE PREPARED AND APPROVED BY COUNCIL WHERE REQUIREMENTS SPECIFIED IN THIS STANDARD CANNOT BE MET, OR WHERE TGSIS MAY BE REQUIRED.

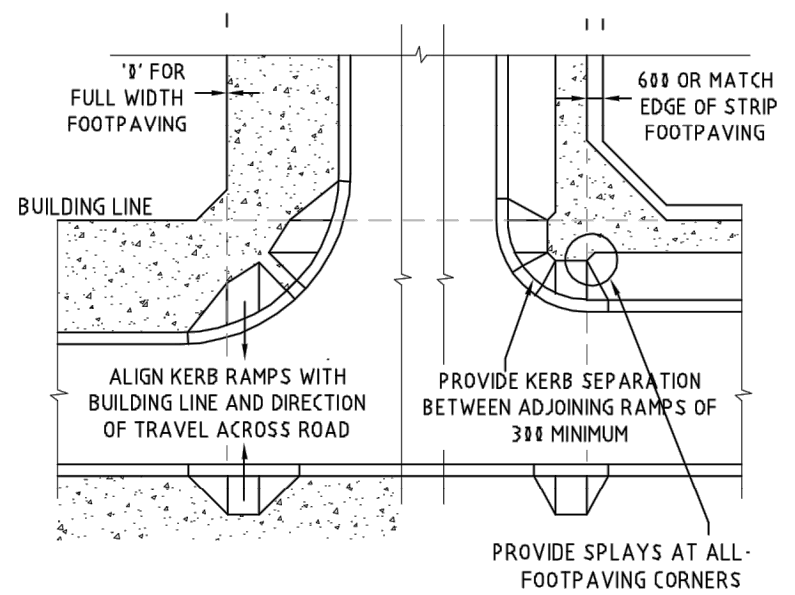


SECTION 2

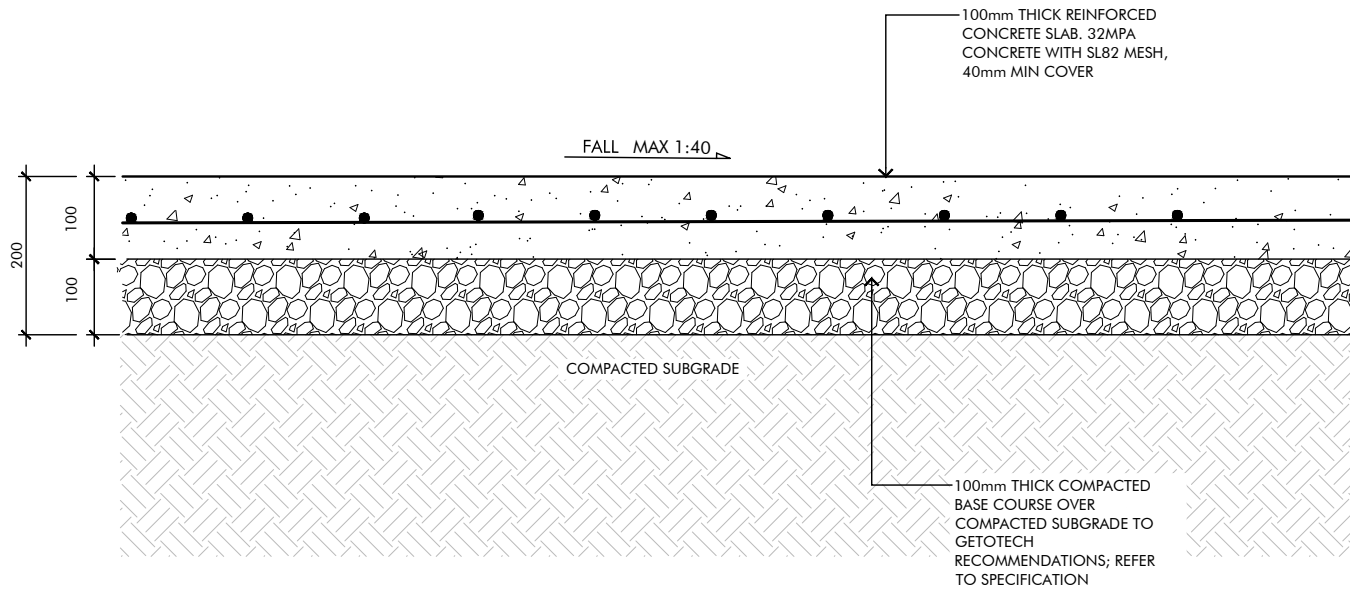


KERB RAMP - TYPICAL PLAN

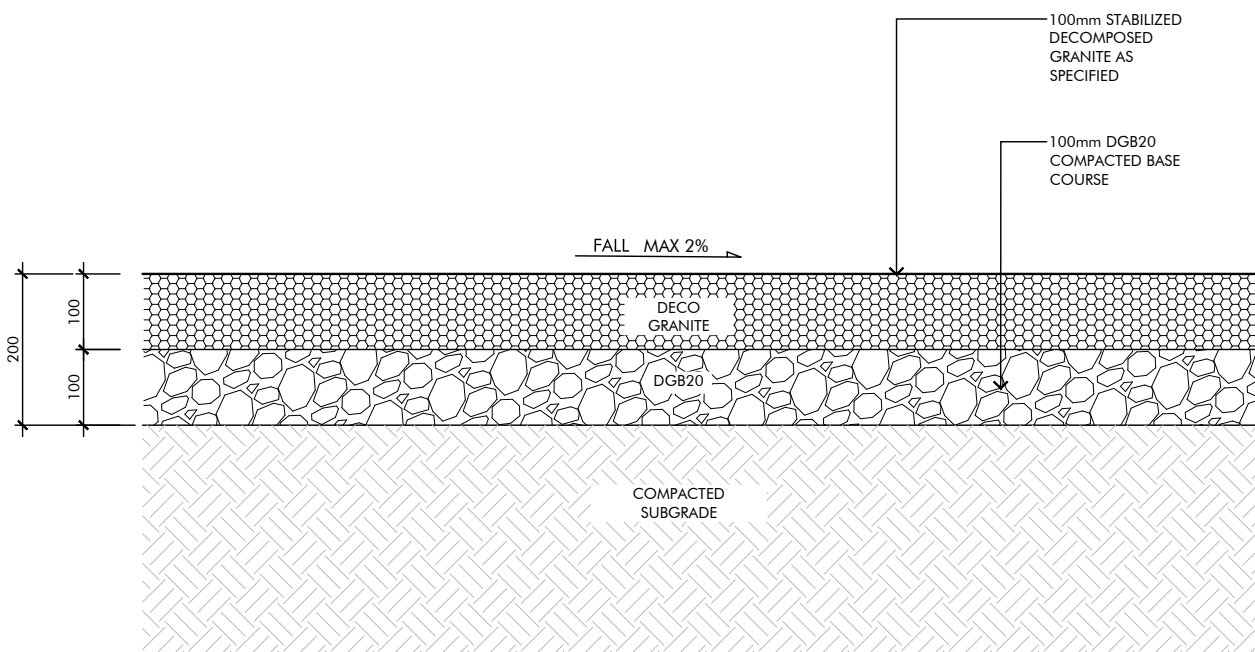
- ISOLATION JOINTS TO BE PROVIDED FULL DEPTH AT ALL EDGES ADJOINING HARD SURFACES USING 10mm BITUMINOUS FIBREBOARD
- CONCRETE SURFACES TO BE MEDIUM BROOM FINISH ACROSS THE DIRECTION OF PEDESTRIAN TRAVEL.
- ADJUST ADJOINING CONCRETE FOOTPAVING AND EXISTING FOOTWAY AS REQUIRED TO MATCH RAMP LEVELS IN A SEPARATE CONCRETE POUR.
- BOXING ALONG LIP GUTTER IS TO BE BACKFILLED WITH HOT MIX AC IN COMPACTED LAYERS AND FINISHED WITH A 4.0mm THICK LAYER OF AC10 OR AC14.
- TACTILE GROUND SURFACE INDICATORS (TGSIS) MAY BE REQUIRED AS FOLLOWS:
 - IF RAMP GRADIENT FLATTER THAN 1:8.5,
 - WHERE THE FOOTWAY WIDTH > 4.500,
 - IN PEDESTRIAN REFUGES, ISLANDS AND MEDIANS,
 - WHERE THE ROAD CROSSING LOCATION IS NOT IN LINE WITH THE PEDESTRIAN DIRECTION OF TRAVEL.
 - REFER TO BCC STD DWG S-002 FOR TGSIS INSTALLATION DETAILS.
- DUMMY JOINTS TO HAVE 20mm DEEP GROOVE AND ARE TO BE FINISHED WITH AN APPROVED TOOL.
- FOR FOOTPAVING CONNECTION < 600mm PROVIDE TYPE S1 OR S2 SPLAYS TYPICALLY. PROVIDE TYPE S2 OR S3 SPLAYS IN HIGH PEDESTRIAN USAGE SITUATIONS. PROVIDE TYPE S3 SPLAYS FOR CYCLEPATHS AND SHARED PATHS.
- KERB RAMPS ARE TO COMPLY GENERALLY WITH AS1428.1, AS1428.4 & RTA DWG. R0300-11



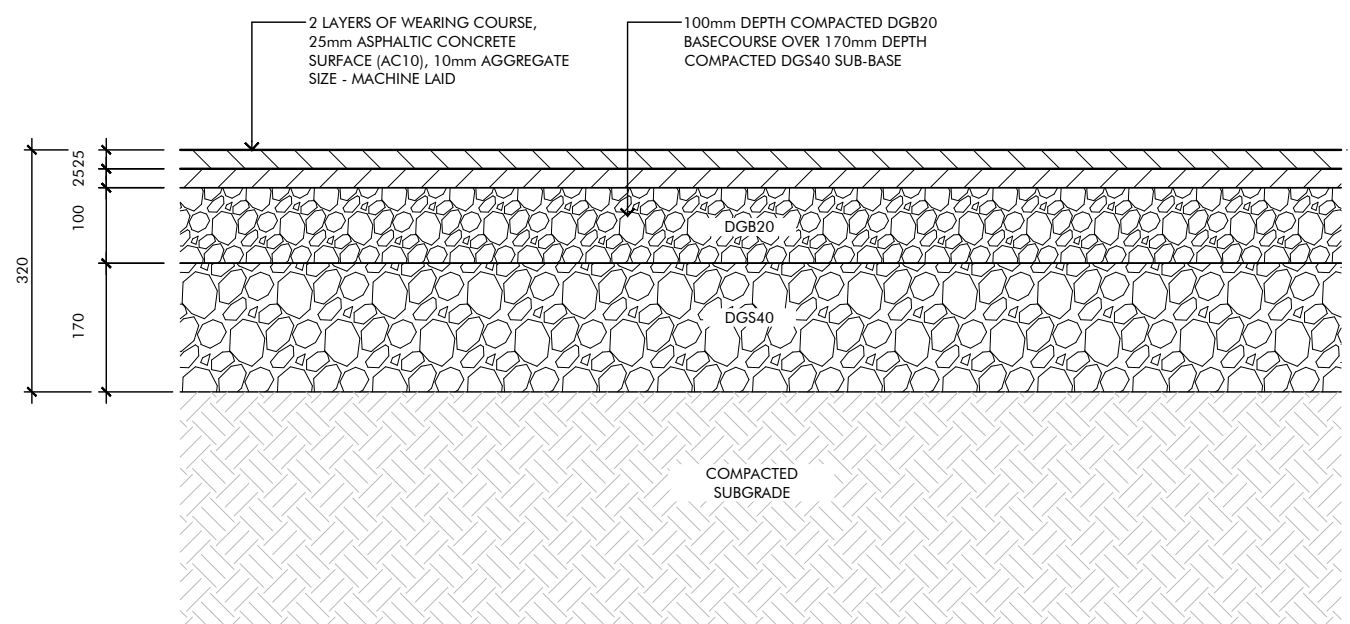
DESIRABLE KERB RAMP SETOUT AT INTERSECTIONS



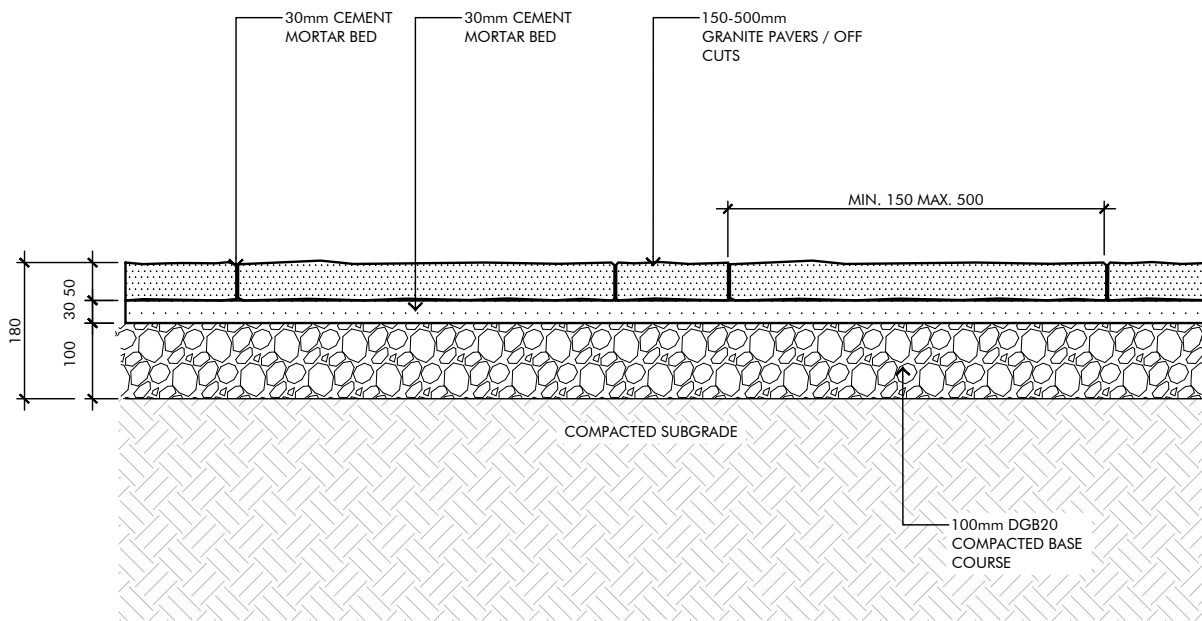
01 PAVING TYPE 1 - CONCRETE PAVEMENT PED.
1:10 @ A3



01 PAVING TYPE 2 - DECOMPOSED GRANITE PAVEMENT
1:10 @ A3



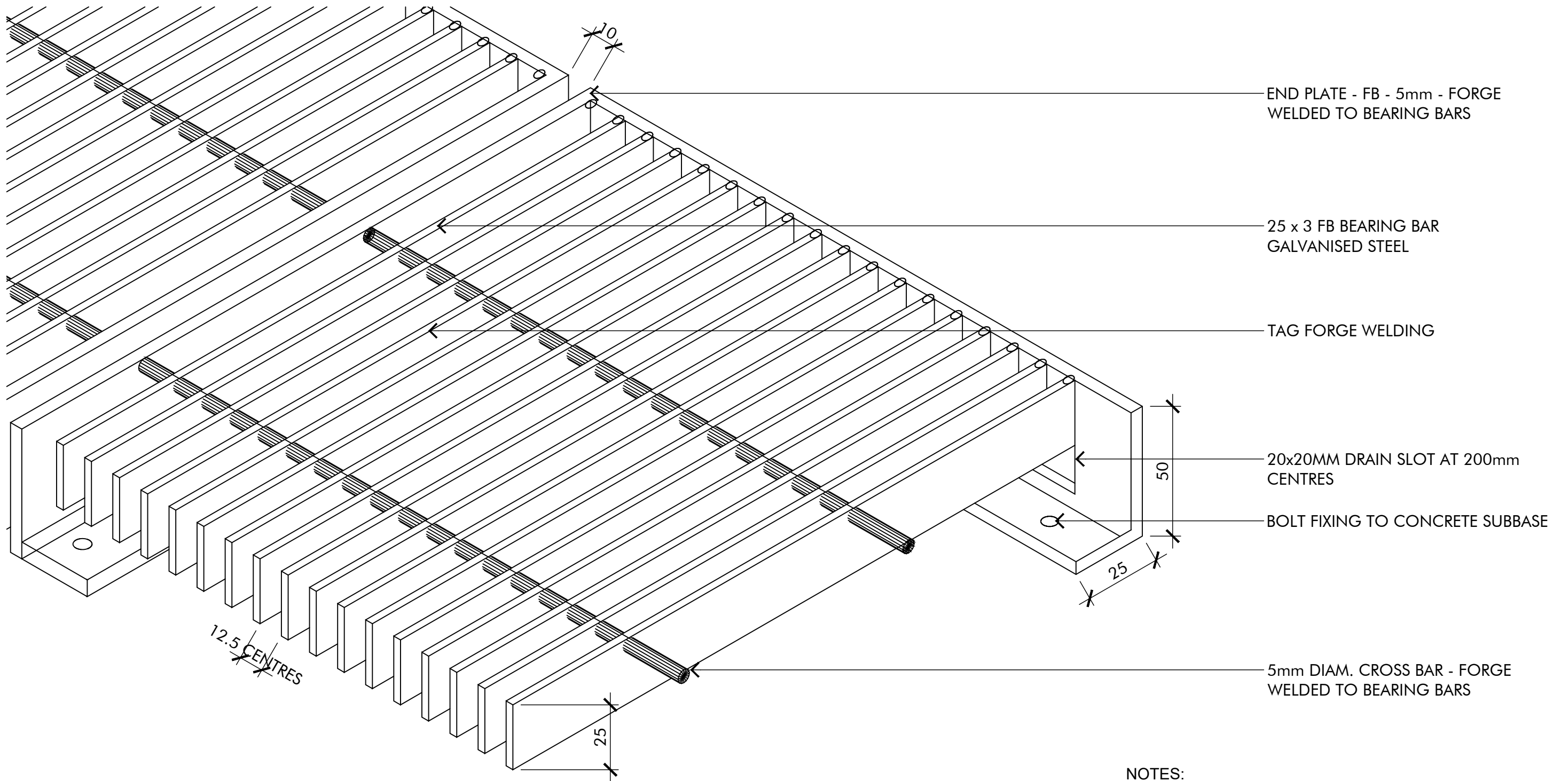
03 PAVING TYPE 3 - ASPHALT PAVEMENT VEH.
1:10 @ A3



01 PAVING TYPE 4 - GRANITE PAVERS
1:10 @ A3



02 PAVING TYPE 4 - GRANITE PAVERS
FOR VISUAL REFERENCE ONLY

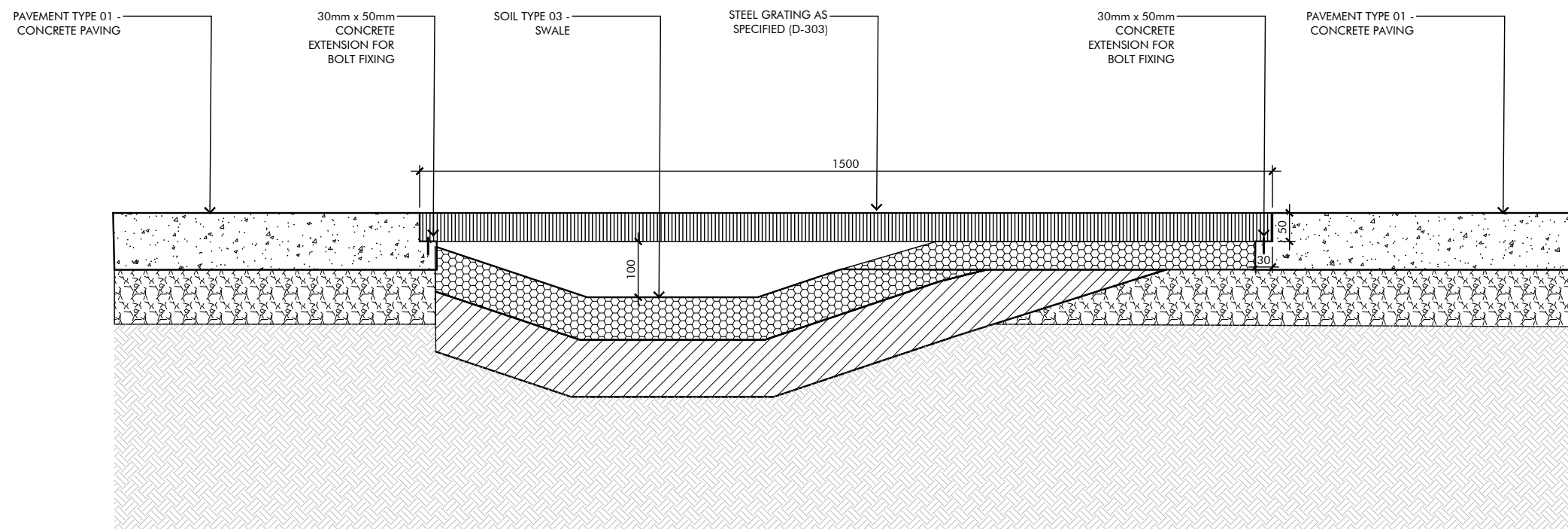


NOTES:

STEEL GRATING MANUFACTURER TO CONFIRM THAT GRATING COMPLIES WITH THE BELOW:

STEEL GRATING SPECIFICATIONS:
 SPAN: 1500mm (SPAN DIRECTION AS INDICATED ON PLAN)
 LIVE LOAD: 4kPa
 MAX. DEFLECTION AT MID-SPAN = 4mm

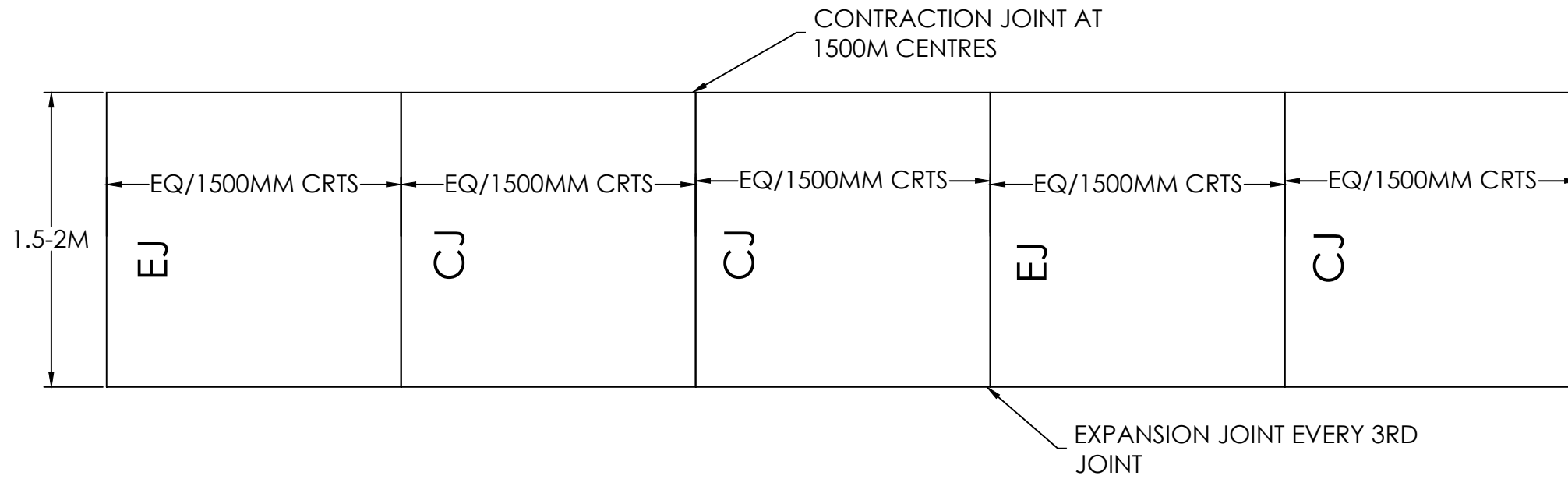
01 PAVING TYPE 5 - STEEL GRATING
 1:10 @ A3



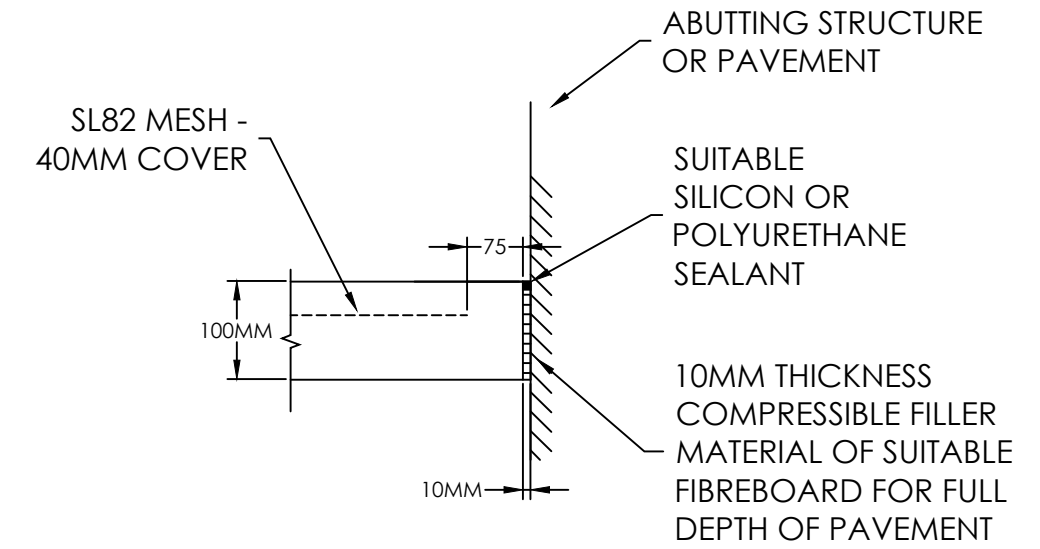
01 PAVING TYPE 5 - STEEL GRATING
1:10 @ A3



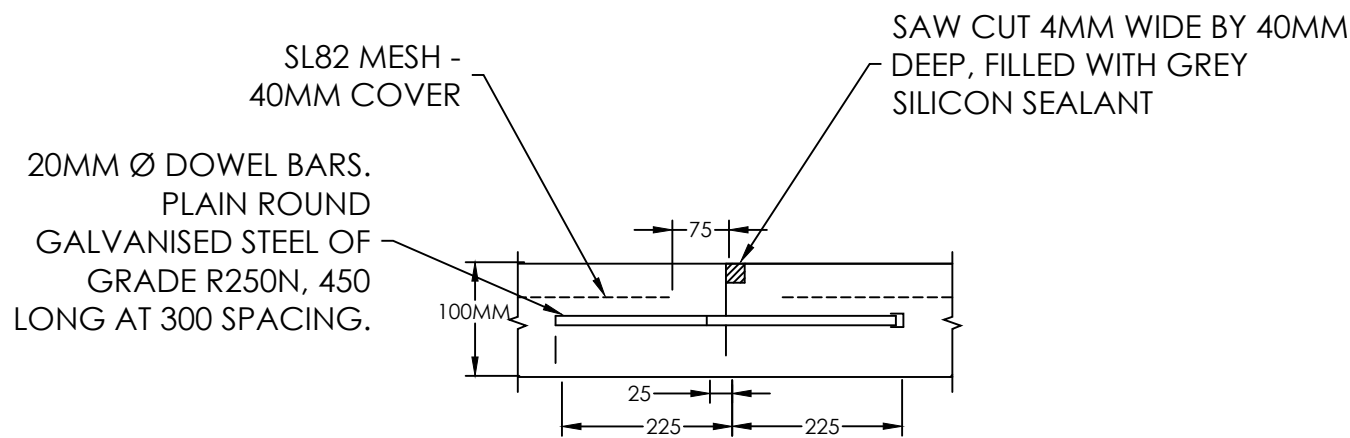
01 CAR PARK LINE MARKING
1:50 @ A3



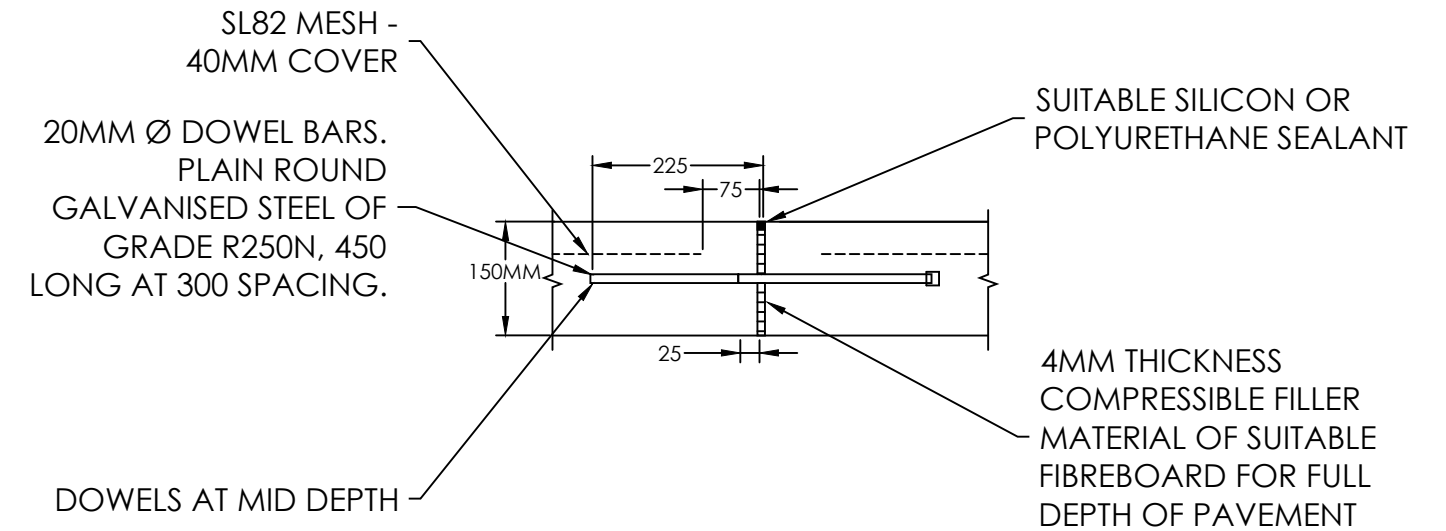
TYPICAL ARRANGEMENT - 1.5M WIDE CONCRETE PATH JOINT SETOUT
 DETAIL 3.00-3
 SCALE 1:10 @ A1



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

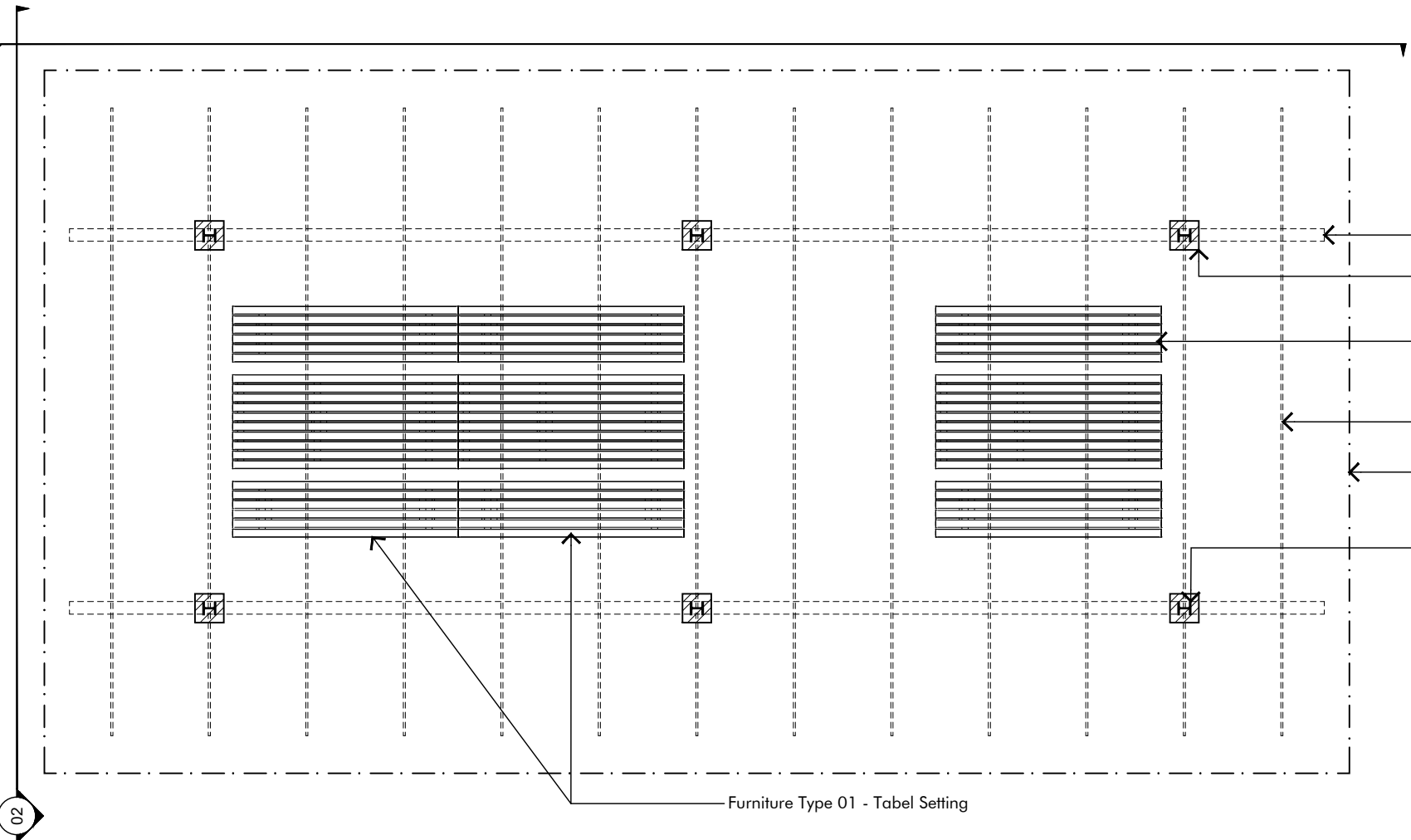


TYPICAL DETAIL - CONTRACTION JOINT
 DETAIL 3.00-6
 SCALE 1:10 @ A1



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

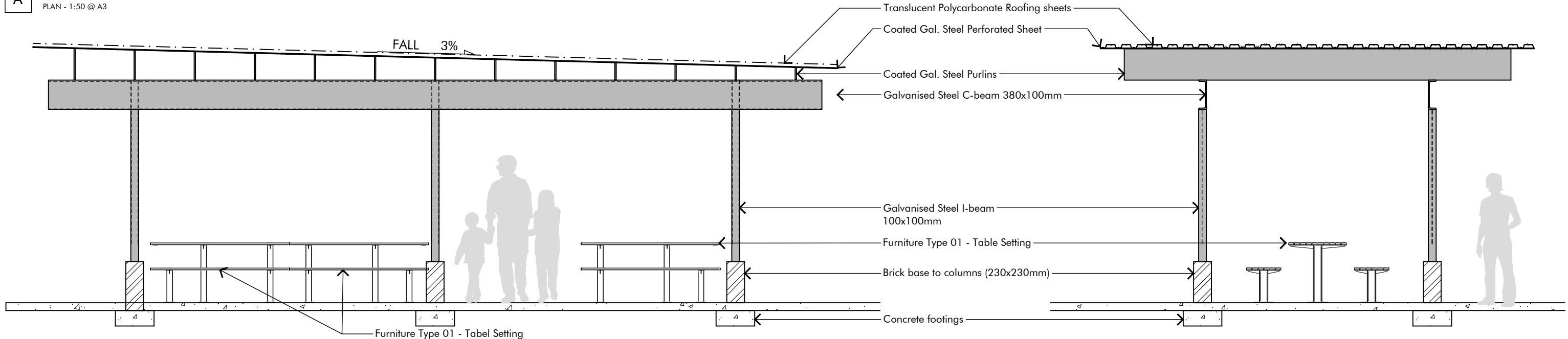
01



- Galvanised Steel C-beam 380x100mm
- Brick base to columns
- Furniture Type 01 - Tabel Setting
- Coated Gal. Steel Purlins
- Translucent Polycarbonate Roofing sheets on top of Coated Gal. Steel Perforated Sheet
- Galvanised Steel I-beam 100x100mm

02

A SITE STRUCTURE 01 - SHELTER
PLAN - 1:50 @ A3



01 SITE STRUCTURE 01 - SHELTER
ELEVATION 01 - 1:50 @ A3

02 SITE STRUCTURE 01 - SHELTER
ELEVATION 02 - 1:50 @ A3

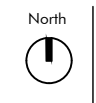


Client
Uralla Shire Council
Key Consultants

Project
Uralla Parks
Project No.
2145
Address
URALLA, NSW, 2358

Issue Log					
Rev	Date	Description	Drawn	Checked	
A	29/04/2022	Draft for review	JV	DK	

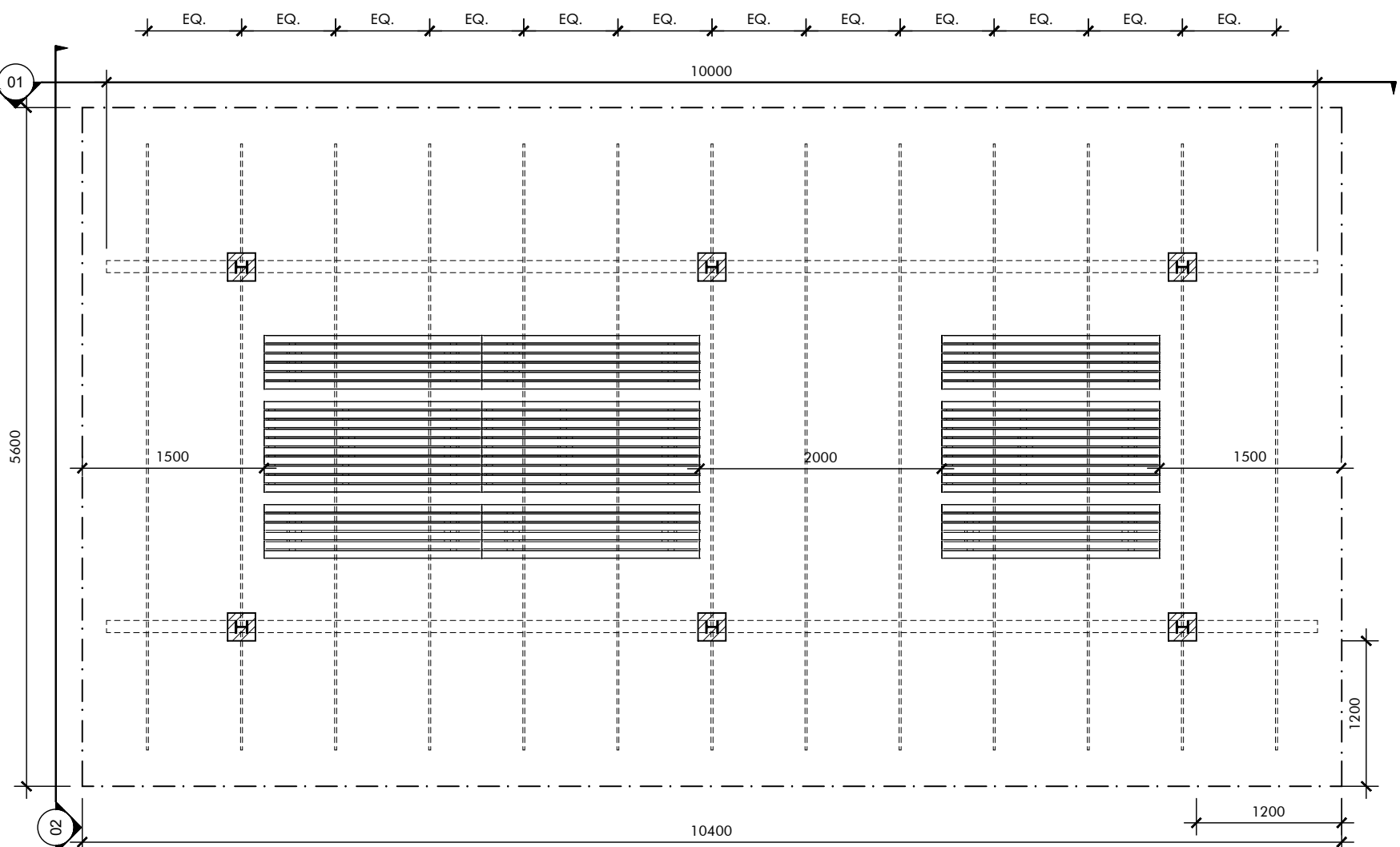
Scale
AS SHOWN @ A3



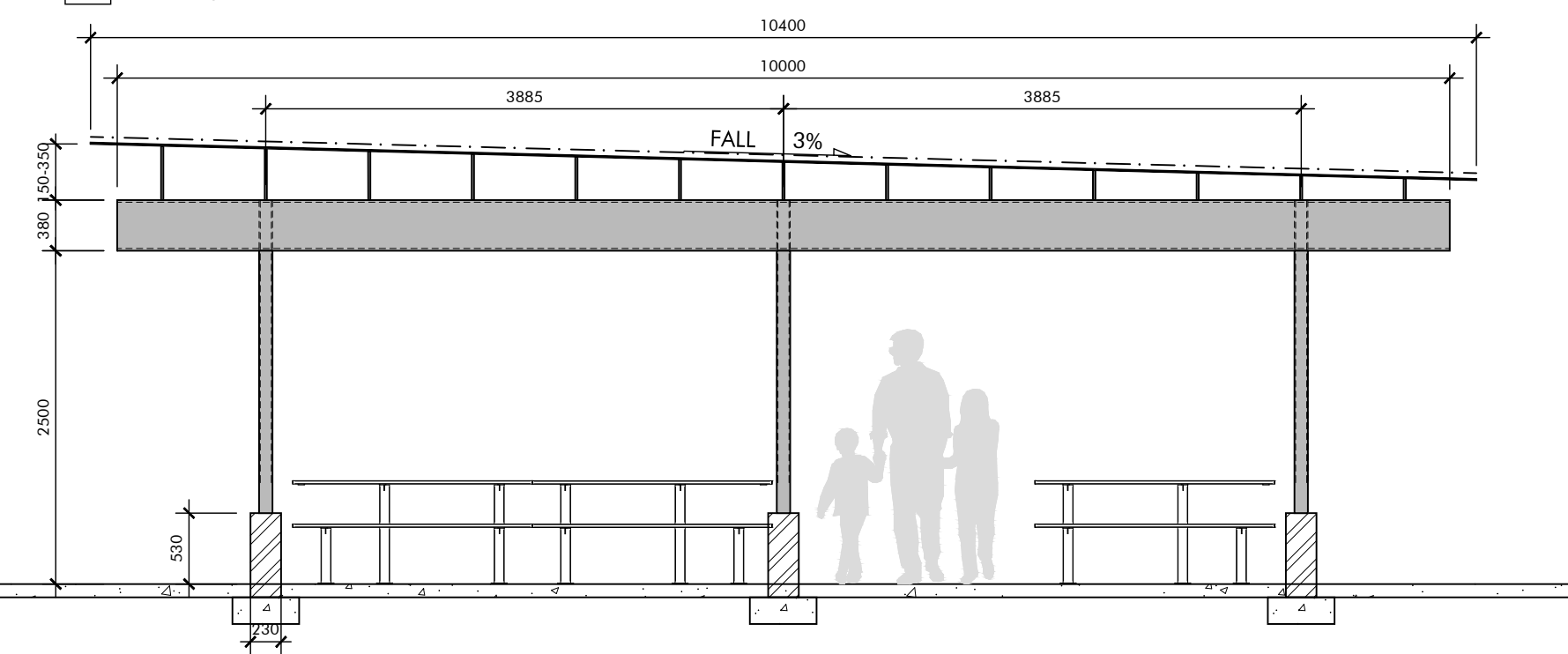
Drawing status
Tender Documentation
Sheet Title
Site Structure 01 - Shelter - Elements
Sheet No.
D-401

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

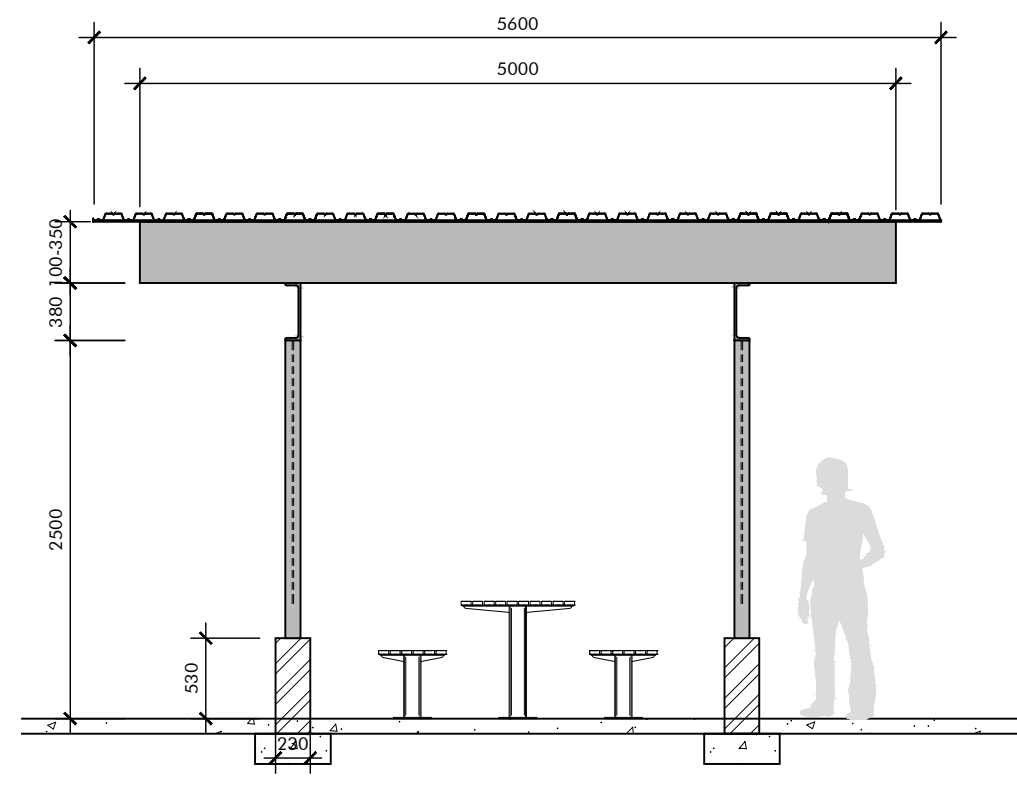
Rev
A



A SITE STRUCTURE 01 - SHELTER
PLAN - 1:50 @ A3



01 SITE STRUCTURE 01 - SHELTER
ELEVATION 01 - 1:50 @ A3



02 SITE STRUCTURE 01 - SHELTER
ELEVATION 02 - 1:50 @ A3



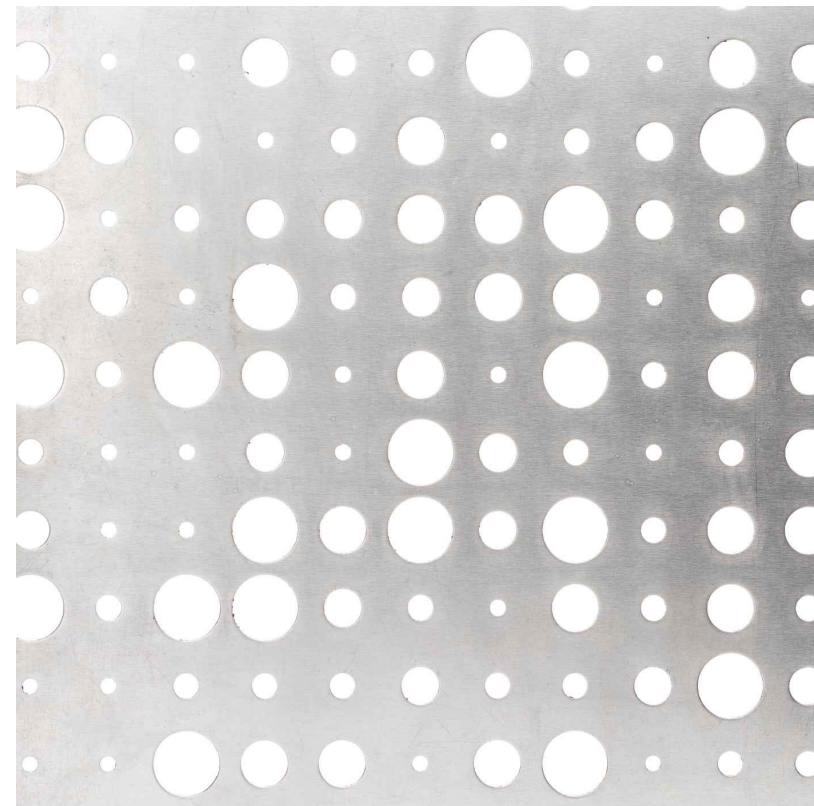
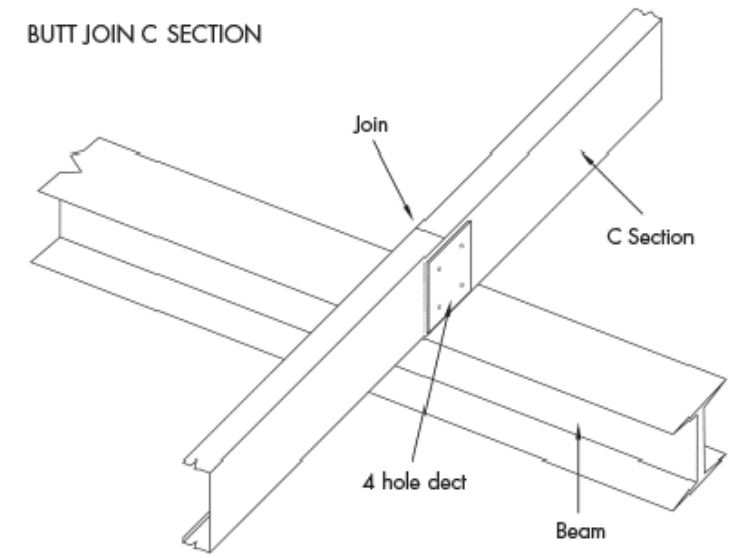
Product: Suntuf Standard - Greca Clear 6.0 m. [or similar]

A SITE STRUCTURE 01 - SHELTER - TRANSLUCENT POLYCARBONATE SHEETING
FOR REFERENCE ONLY



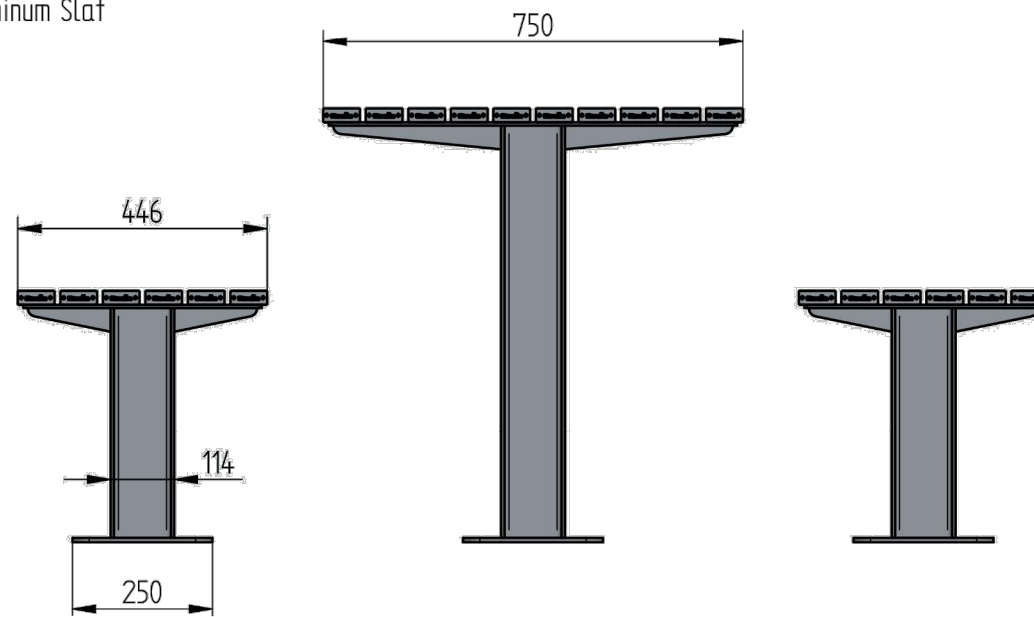
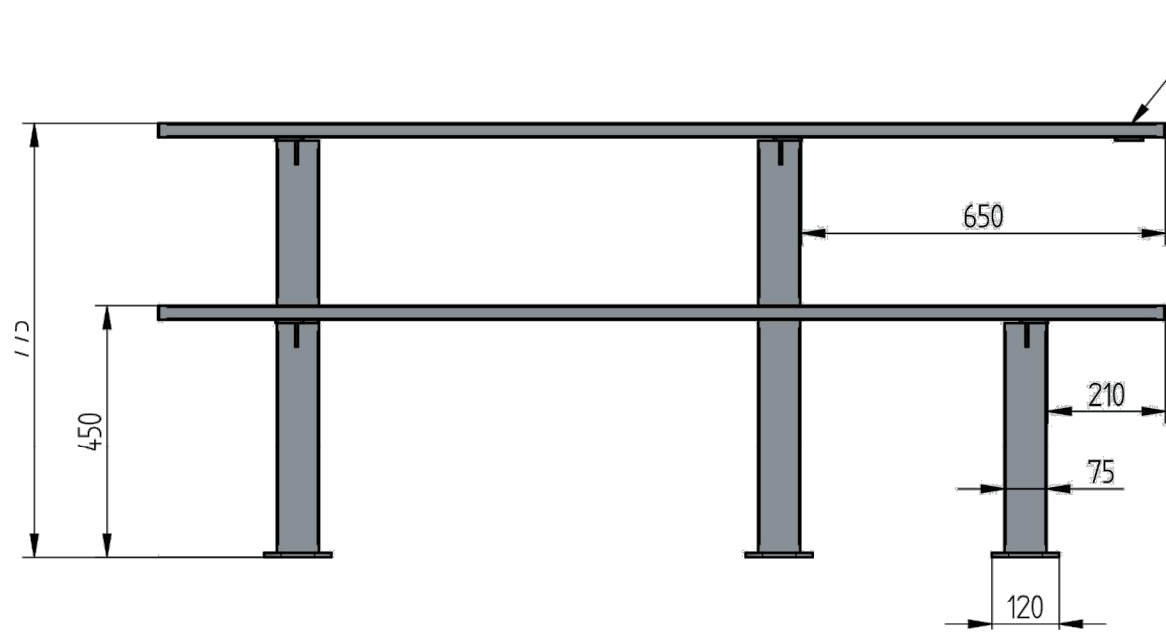
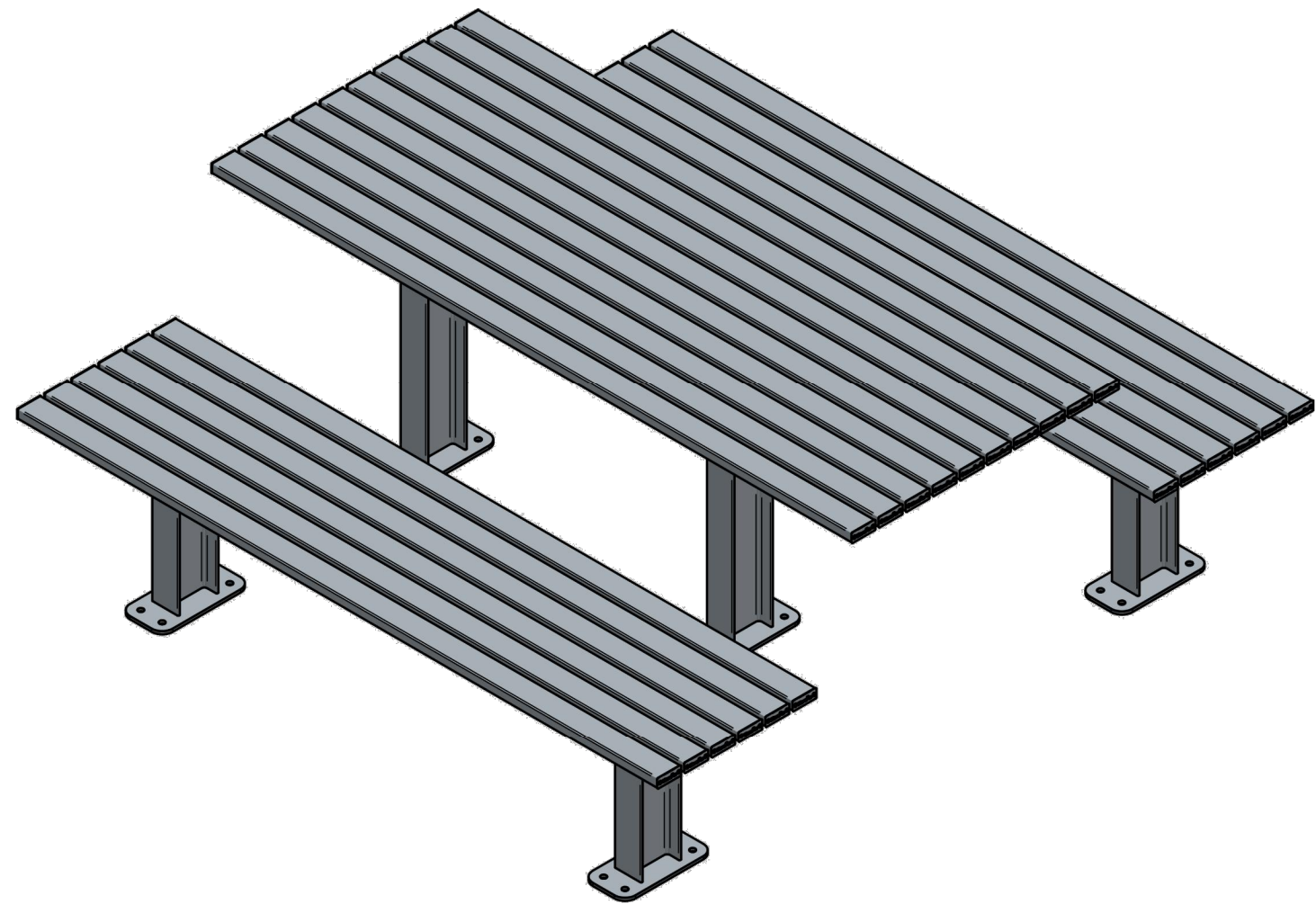
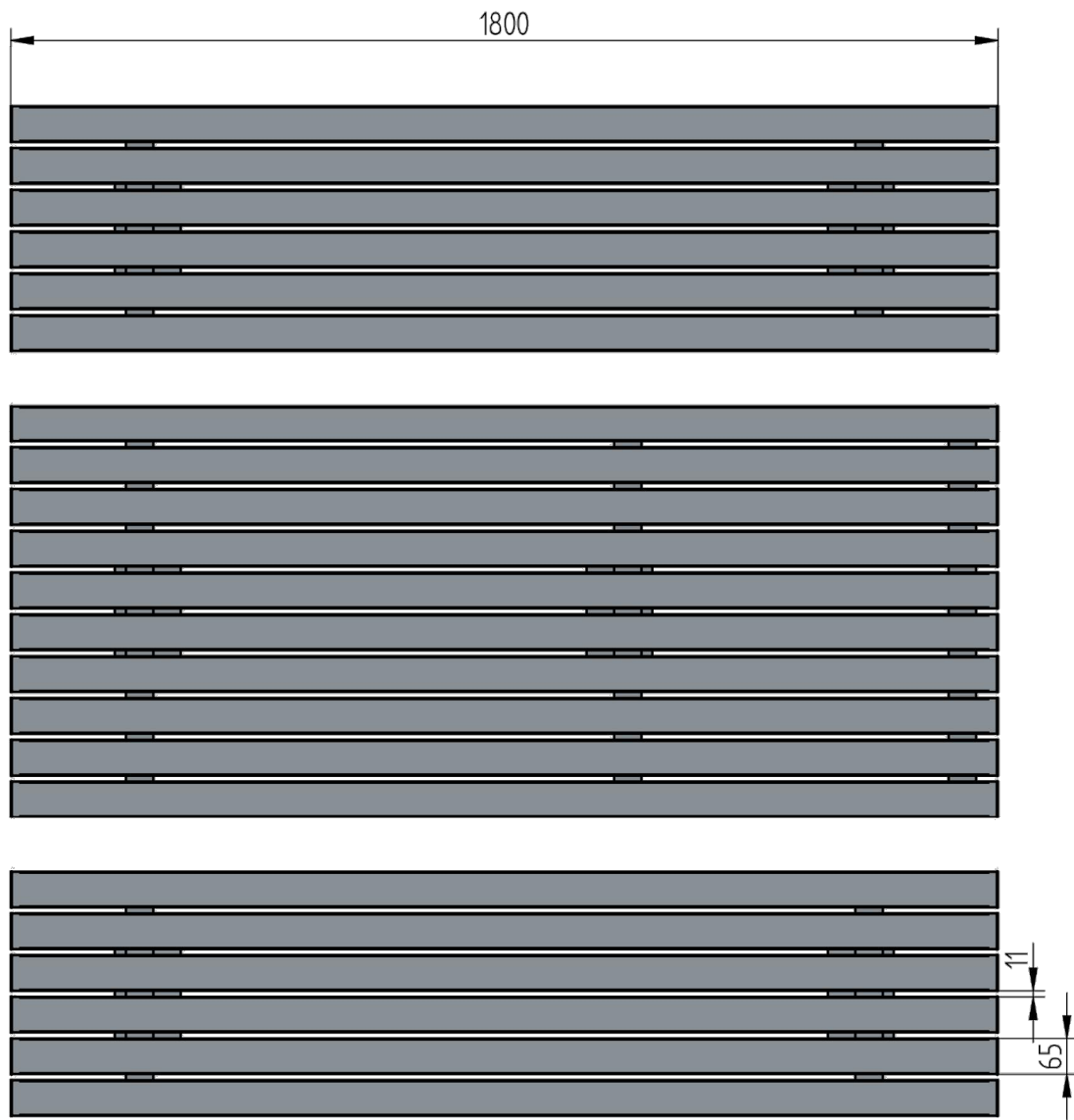
Product: Steelline C-Purlin
Member sizes: C150, C200, C250, C300, C350

A SITE STRUCTURE 01 - SHELTER - PURLINS
FOR REFERENCE ONLY

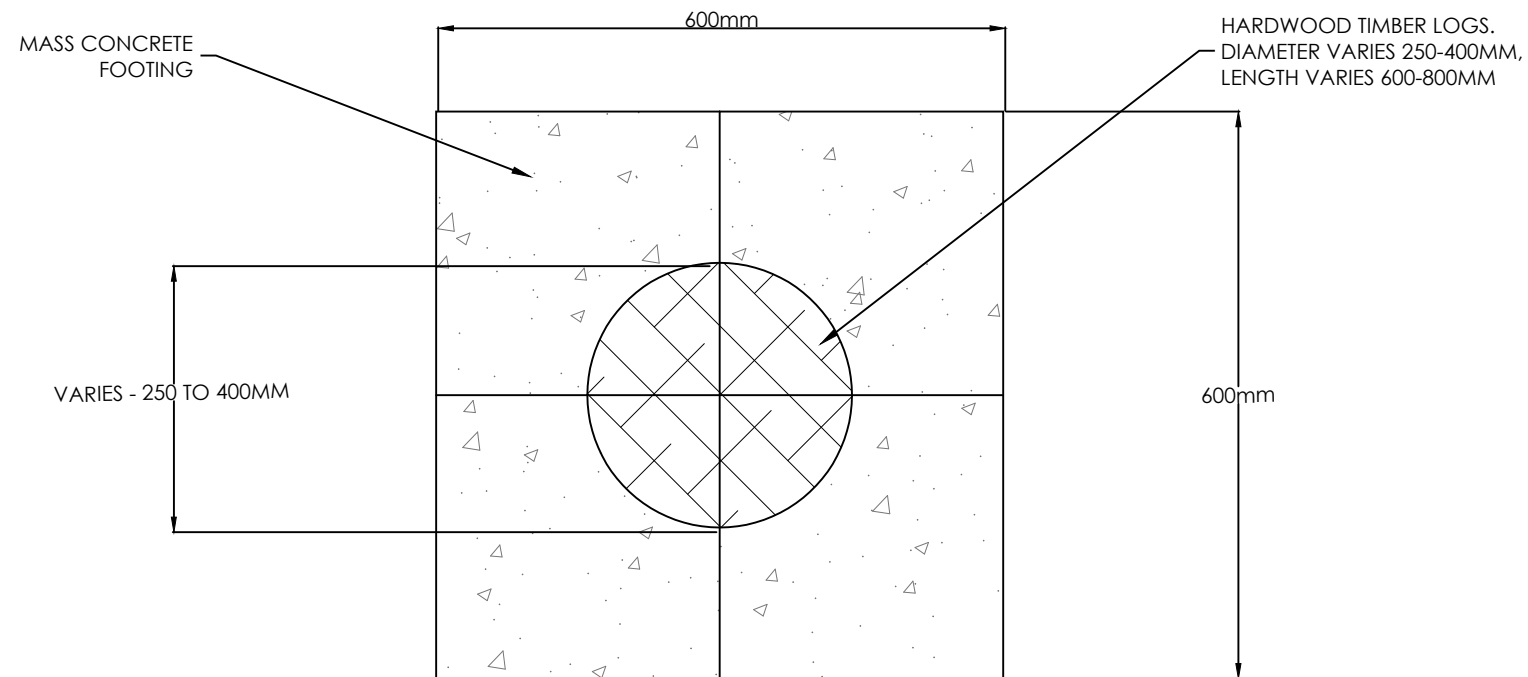


Product: Locker Champagne pattern perforated metal sheet 3mm thick.
Finish: powder coat (white)

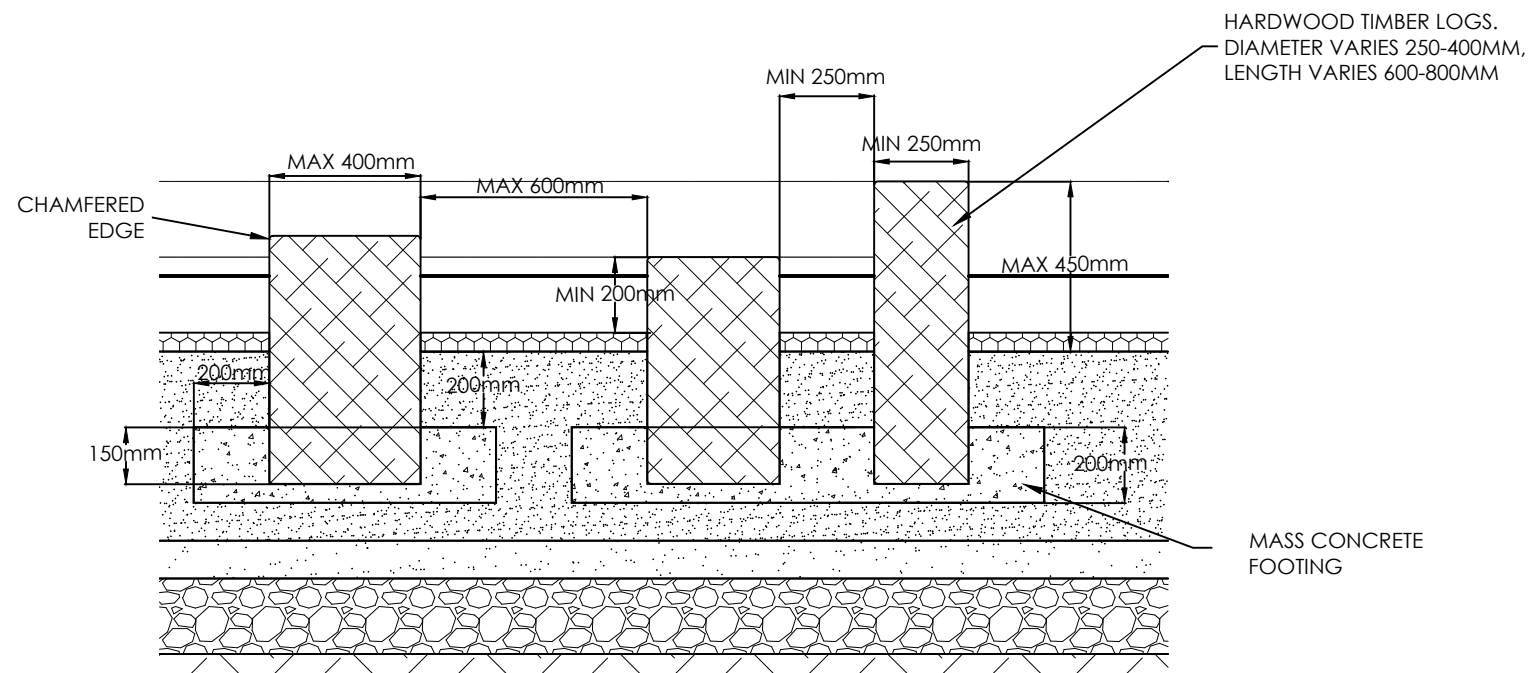
B SITE STRUCTURE 01 - SHELTER - PERFORATED METAL SHEETING
FOR REFERENCE ONLY



- NOTE:
- TO BE SUPPLIED BY STRABE GROUP PTY LTD
 - MODEL NUMBER: TBL009-AL-SG
 - DDA COMPLIANT / WHEELCHAIR FRIENDLY TABLE SETTING
 - MODEL TYPE: STRABE ION TABLE SETTING
 - FINISH: POWDER COATED (MATTE BLACK) / SPOTTED GUM BATTENS
 - SURFACE MOUNDED

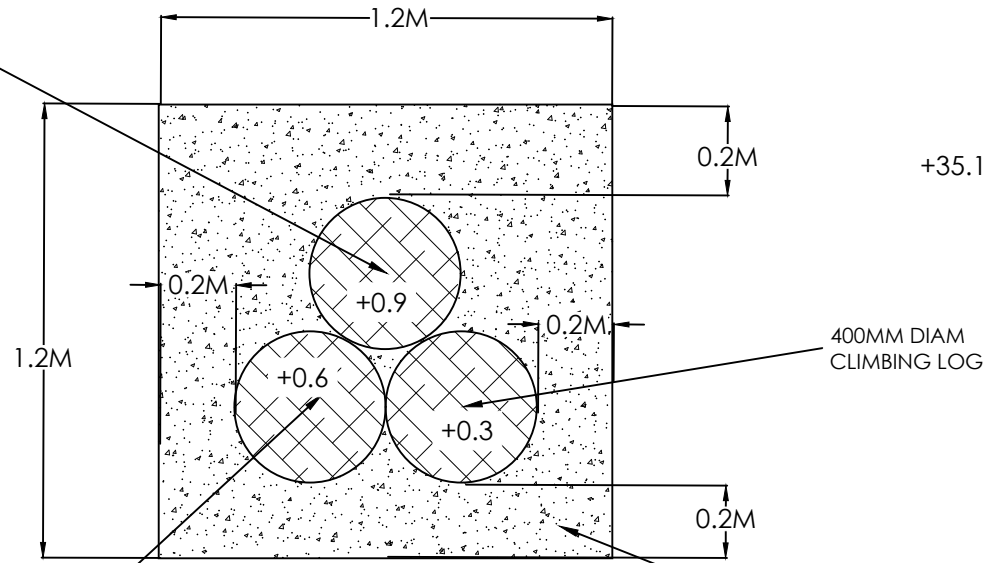


A TIMBER LOG STEPPING STONES - TYPICAL PLAN
1:10 @ A3



B TIMBER LOG STEPPING STONES - TYPICAL SECTION
1:20 @ A3

TIMBER CLIMBING LOG. 400MM DIAM APPROX. 20MM BEVELLED EDGES. ALL EDGES TO BE SANDED AND SMOOTH AND FREE OF SHARP EDGES

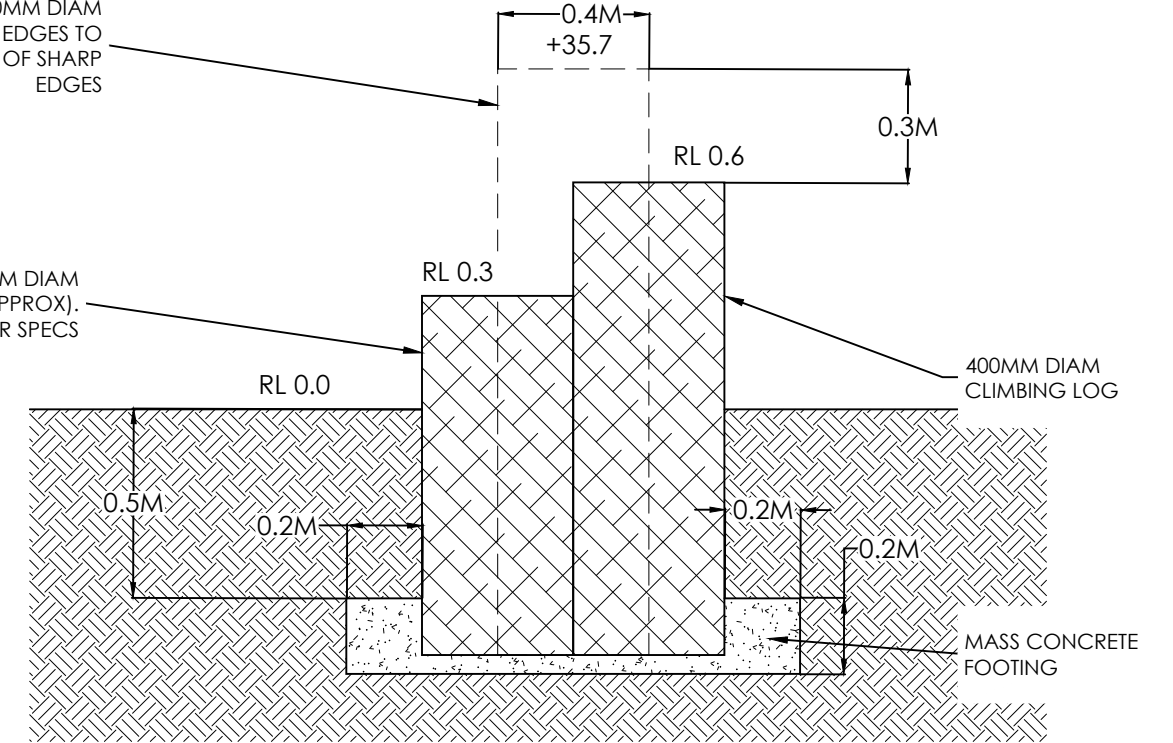


TIMBER CLIMBING LOG. 400MM DIAM (APPROX). REFER SPECS

400MM DIAM CLIMBING LOG

MASS CONCRETE FOOTING. NOTE RUBBER SOFT FALL NOT SHOWN FOR CLARITY

TIMBER CLIMBING LOG (BEHIND). 400MM DIAM APPROX. 20MM BEVELLED EDGES. ALL EDGES TO BE SANDED AND SMOOTH AND FREE OF SHARP EDGES



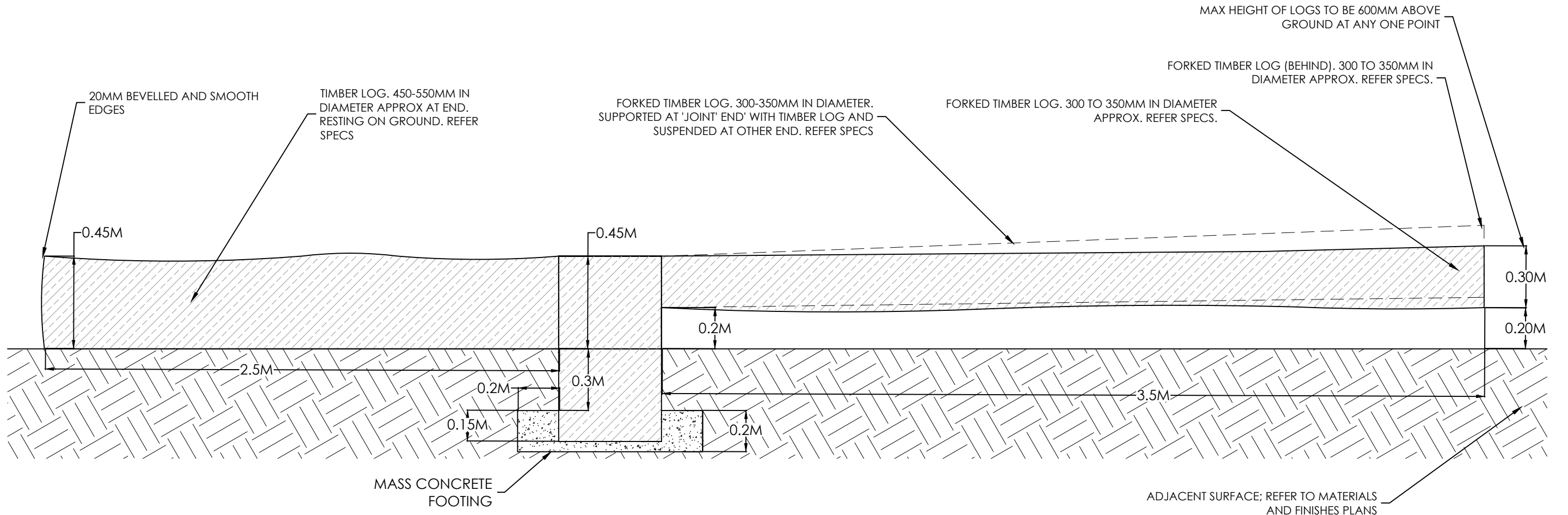
TIMBER CLIMBING LOG. 400MM DIAM (APPROX). REFER SPECS

400MM DIAM CLIMBING LOG

MASS CONCRETE FOOTING

A TIMBER CLIMBING LOGS - TYPICAL PLAN
1:20 @ A3

B TIMBER CLIMBING LOGS - TYPICAL SECTION
1:20 @ A3



MAX HEIGHT OF LOGS TO BE 600MM ABOVE GROUND AT ANY ONE POINT

FORKED TIMBER LOG (BEHIND). 300 TO 350MM IN DIAMETER APPROX. REFER SPECS.

TIMBER LOG. 450-550MM IN DIAMETER APPROX AT END. RESTING ON GROUND. REFER SPECS

FORKED TIMBER LOG. 300-350MM IN DIAMETER. SUPPORTED AT 'JOINT' END WITH TIMBER LOG AND SUSPENDED AT OTHER END. REFER SPECS

FORKED TIMBER LOG. 300 TO 350MM IN DIAMETER APPROX. REFER SPECS.

MASS CONCRETE FOOTING

ADJACENT SURFACE; REFER TO MATERIALS AND FINISHES PLANS

C TIMBER CLAMBERING LOG - TYPICAL SECTION
1:20 @ A3