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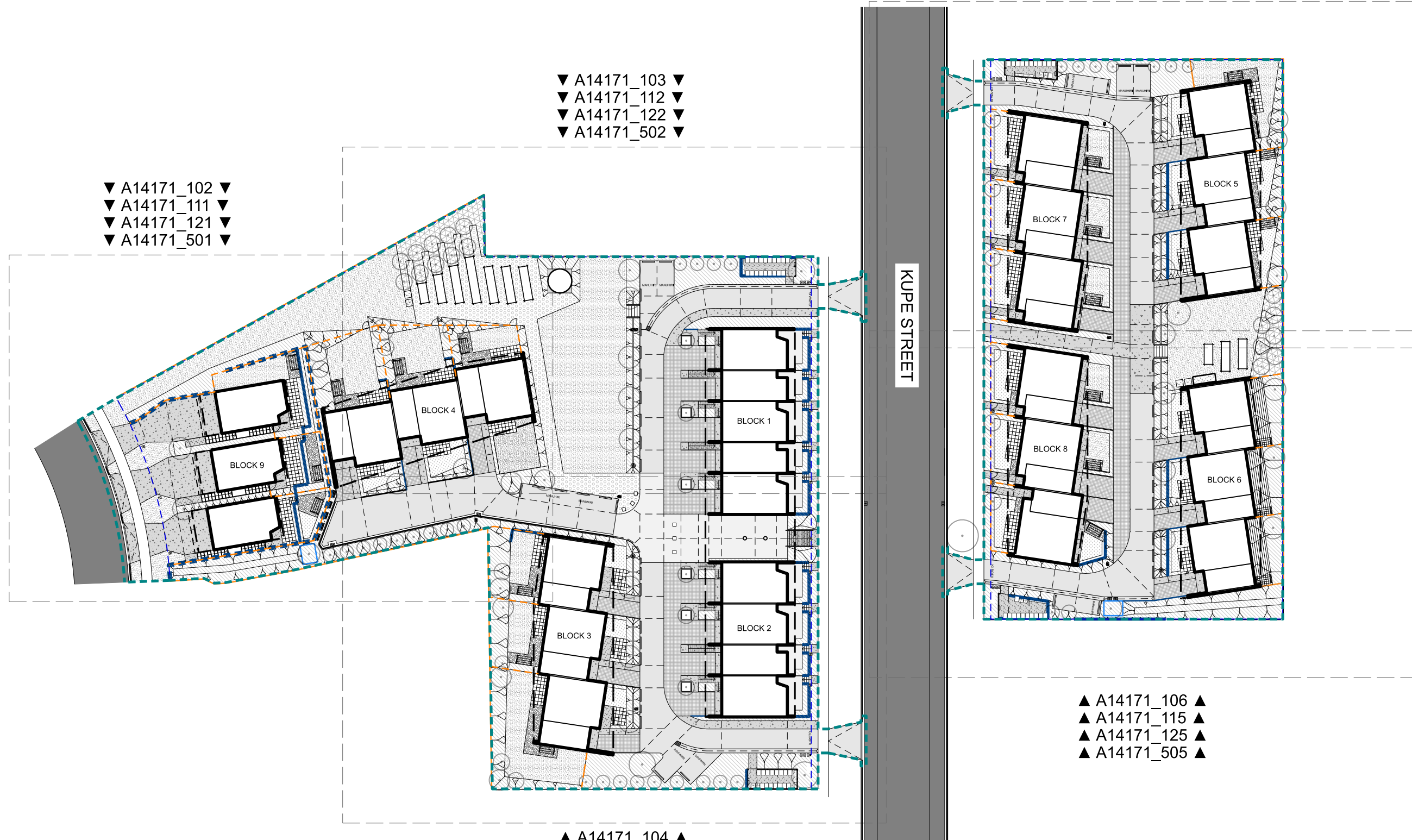
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Job Name		Day	15	24	03
Kainga Tuatahi - Kupe Street SHA Detailed Design		Month	09	10	11
		Year	14	14	14
Drawing Title	Drawing No	Revision			
General Arrangement Overall Plan	A14171 100	* A B			
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General Arrangement - Sheet 1 of 5	A14171 102	* A B			
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Planting Plan - Sheet 3 of 5	A14171 503	* A			
Planting Plan - Sheet 4 of 5	A14171 504	* A			
Planting Plan - Sheet 5 of 5	A14171 505	* A			
Landscape Specification		*			
Recipients	Company	Distribution			
Kate Healy	Ngati Whatua Orakei	* * *			
James Allan	Davis Langdon	* * *			
Misako Mitchell	Steven Lawson	* * *			
Gary Lawson	Steven Lawson	* * *			
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Issue Type					
A1					
A3					
PDF		1 1 1			
other					
P - Preliminary; A - Approval; T - Tender; C - Construction		Reason for Issue			
I - Information; R - Resource Consent		I I T			
		Issued By			
		JB JB JB			

- ▼ A14171_105 ▼
- ▼ A14171_114 ▼
- ▼ A14171_124 ▼
- ▼ A14171_504 ▼

- ▼ A14171_103 ▼
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- ▲ A14171_113 ▲
- ▲ A14171_123 ▲
- ▲ A14171_503 ▲

NOTES
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 CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;
 FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

REV	DATE	DESCRIPTION
-	15.09.14	DRAFT ISSUE FOR COSTING
A	24.10.14	DETAILED DESIGN 95%
B	03.11.14	TENDER ISSUE



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 Ngāti Whātua Ōrākei

CONSULTANTS
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 Barker & Associates
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Kāinga Tuatahi

General Arrangement Plan
 Overall Plan

Design	JBr	Scale	Date
Drawn	KDo	1:300 @ A1	15.09.2014
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DRAWING NO. **A14171_100** REVISION **(B)**

SURFACES:

S01 IN-SITU CONCRETE DRIVEWAY AND FOOTPATH (VEHICULAR STRENGTH)
 U11 concrete with honed aggregate finish, 10mm basalt chip aggregate with selected shell (approx 200kg/m³ - sample to be approved by project landscape architect), Sawcuts at intervals as drawn. Concrete to be honed to lightly expose aggregate with 80 - 100 grit grinding head to achieve 0.65 - 0.75 coefficient of friction when wet. Concrete to be sealed with "F1 Natural Sealer" as per manufacturers specification. Test pour to be approved by project engineer and landscape architect prior to full installation. Refer to A14171_300
 Refer to engineers drawing for structural detail.

S02 IN-SITU CONCRETE DRIVEWAY (VEHICULAR STRENGTH)
 U5 concrete with shallow broom finish, 10mm basalt chip aggregate concrete with 4kg/m³ of black oxide added, Sawcuts at intervals as drawn. Test pour to be approved by project engineer and landscape architect prior to full installation. Refer to A14171_300
 Refer to engineers drawing for structural detail.

S03 IN-SITU CONCRETE PATIO (PEDESTRIAN STRENGTH)
 U2 concrete with exposed finish, 10mm basalt chip aggregate concrete with 4kg/m³ of black oxide added, Sawcuts at intervals as drawn. The surface shall be sprayed with Rugasol C or equal retarder prior to curing and then cleaned. Test pour to be approved by project engineer and landscape architect prior to full installation. Refer to A14171_300
 Refer to engineers drawing for structural detail.

S03b IN-SITU CONCRETE DRIVEWAY FOOTPATH(VEHICULAR STRENGTH)
 U2 concrete with exposed finish, 10mm basalt chip aggregate concrete with 4kg/m³ of black oxide added, Sawcuts at intervals as drawn. The surface shall be sprayed with Rugasol C or equal retarder prior to curing and then cleaned. Test pour to be approved by project engineer and landscape architect prior to full installation. Refer to A14171_300
 Refer to engineers drawing for structural detail.

S03c IN-SITU CONCRETE DRIVEWAY AND FOOTPATH (VEHICULAR STRENGTH)
 U2 concrete with exposed finish, 10mm basalt chip aggregate concrete with selected shell (approx 200kg/m³ - sample to be approved by project landscape architect), Sawcuts at intervals as drawn. The surface shall be sprayed with Rugasol C or equal retarder prior to curing and then cleaned. Test pour to be approved by project engineer and landscape architect prior to full installation. Refer to A14171_300
 Refer to engineers drawing for structural detail.

S04 ASPHALT CARRIAGEWAY REINSTATEMENT
 800mm width adjacent to new kerb/channel works. Refer to A14171_300
 Refer to engineers drawing for structural detail.

S05 ROAD RESERVE FOOTPATH
 U2 concrete with exposed finish, 10mm basalt chip aggregate concrete, Sawcuts at intervals as drawn. The surface shall be sprayed with Rugasol C or equal retarder prior to curing and then cleaned. Test pour to be approved by project engineer and landscape architect prior to full installation. Refer to engineers drawing for structural detail.

S06 HOGGIN / SELF-BINDING GRAVEL
 75mm aggrob by 360 Urban, 'Coromandel Gold' over GAP40 compacted subbase and geotextile membrane. Refer to A14171_301
 Refer to engineers drawing for structural detail.

S07 GRASS PAVERS
 400 x 400 x 80mm Firth EcoPave System Grass Pavers, paver voids to be filled with 10-13mm washed Hawkes bay by Wahrehine Group or similar approved. Refer to A14171_301
 Installation and structural detail to manufacturers specification

S08 LOOSE PEBBLES
 100mm 10-13mm washed Hawkes bay by Wahrehine Group or similar approved over compacted GAP40 sub base and geotextile membrane. Refer to A14171_301

S09 PATIO CONCRETE PAVERS
 500 X 500 X 50mm Firth Chancery Concrete Paver. Colour to be 'Natural'. Refer to A14171_301
 Installation and structural detail to manufacturers specification

S10 TACTILE GROUND SURFACE INDICATORS
 35mm dia, 4mm high Freedom Strategies Limited stainless steel hazard tactile studs. Laid as 625 x 625mm wide band on pavers transverse to direction of travel. Installation to be in accordance with manufacturers methodology and NZS1428.4.1:2009.

S11 STENCILED ROAD AND CAR PARK MARKING
 Two coat white road marking paint to indicate driveway entry, exit and visitor parking. Text to be stencilled onto concrete surface. Working to be confirmed. To be installed to suppliers specification. Refer to A14171_304

S12 HESSIAN CLOTH
 Hessian cloth fabric to be pinned with 150mm Ecocover Eco Pins @ 800mm centres to line all swales and Overland Flowpaths (OLFP)
 Refer to A14171_315

S13 BARK MULCH
 50mm min (final settled depth) bark mulch layer to planted areas. Refer to A14171_301

STRUCTURES

ST01 PEDESTRIAN SWALE CROSSING
 TIMBER BRIDGE
 Refer to A14171_313

ST02 RAISED TIMBER PLANTER
 Refer to A14171_308

ST03 WATER REUSE TANK
 SLS-7000 Water reuse tank by Tanksalot, placed on concrete slab to engineers specification. Installation to suppliers specification

ST04 CODE OMITTED

ST05 LOW TIMBER RETAINING WALL
 Low retaining wall to refuse area Refer to A14171_319

ST06 CONCRETE PAD FOR COMPOST BIN
 Refer to A171_304

ST07 GREEN WALL CLIMBING WIRES
 4000mm high Grade 316 stainless steel vertical wire "Foliage System" by Anzor at 500mm spacings. Refer A14171_317

ST08 STEEL VERTICAL BAR FENCE
 960mm high Bulldog Max Landscape Fence. Refer A14171_314
 Installed to manufacturers specification

ST09 REINSTATE FENCE
 Protect or Reinstate boundary fence to 1800mm high timber paling fence, to be painted black. Paint sample to be provided for landscape architect's review.

ST10 CODE OMITTED

ST11 CLOTHESLINE
 'Hills' double frame folding clothesline installed to manufacturers specifications. Refer to A14171_318

ST12 LETTER BOXES
 'Vancouver' Letterbox sitting on a 100 x 100 x 1300mm long H4 treated Pinus radiata post with 1000mm above ground set into a 300 x 300 x 400mm deep concrete footing. Letterbox and post painted black. Paint sample to be provided for Landscape Architects review.

ST13 TIMBER STEPS
 Refer A14171_308

ST14 PROPRIETRY SW DEVICE
 Urban Green Biofilter by Stormwater 360. Installed to suppliers specification

ST15 LARGE RETAINING WALL
 Refer engineers drawings for detail and specification

ST16 WATER REUSE TANK
 RT-20000 Water reuse tank by Tanksalot, placed on concrete slab to engineers specification. Installation to suppliers specification

ST17 VEHICLE WHEELSTOP
 Refer to engineers specifications and details

ST18 CONCRETE STEPS
 Refer A14171_305 -307

ST19 REFUSE AREA SCREEN FENCE
 1900x100x100mm treated pine posts @ typ 1800mm spacings with 50x10mm horizontal treated pine battens
 Refer A14171_319

ST20 TIMBER DECK
 To Architects detail and specification

ST21 CLOTHES LINE / TRELLIS
 Refer to A14171_318

ST22 FLOOD RETAINING WALL
 Refer engineers drawings for detail and specification

ST23 TREE PIT
 Refer A14171_315

ST24 GATE TO MATCH ST08
 Max landscape fence folded landscape Pedestrian gate. Installation to manufacturers specifications

ST25 STRUCTURAL RETAINING WALL
 Refer engineers drawings for detail and specification

ST26 TIMBER FENCE
 1800mm high timber fence, painted black. Paint sample to be provided for Landscape Architects review. Refer A14171_316

ST27 EXISTING FENCE TO BE REMOVED
 Where adjacent property is owned by Ngati Whatua unless stated otherwise.

KERB AND CHANNEL

K01 KERB AND CHANNEL REINSTATEMENT
 Kerb reclaimed from site re-laid. 300mm wide concrete channel also to be reinstated as per Auckland Council standards

K02 CONCRETE FLUSH EDGING
 400x 75 x 150mm Firth Euro Kerb Insitu concrete kerb, Colour to be 'Black Sand'
 Refer to A14171_301

K03 TIMBER EDGE
 100 x 50mm RS H4 treated timber edge pegged with H4 treated timber stake at 500mm crs. Refer to A14171_301

K04 KERB AND CHANNEL
 Refer to Engineers details and specifications

JOINTING

J01 SAWCUT
 3mm sawcut to insitu concrete pavement
 Refer to A14171_302

J02 ASPHALT JOINT
 Refer to Engineers Details and Specifications

J03 FLEXIBLE JOINT
 Refer to Engineers Details and Specifications

VEGETATION

T01 SPECIMEN TREE
 Species varies refer to Planting Plan A14171_500.

T02 FRUIT TREES
 Refer to Planting Plan A14171_500

T03 GREEN WALL PLANTING - CLIMBERS
 Refer to Planting Plan A14171_500

T04 SWALE PLANTING
 Refer to Planting Plan A14171_500

T05 AMENITY PLANTING
 Refer to Planting Plan A14171_500

T06 HEDGE PLANTING
 Refer to Planting Plan A14171_500

T07 EXISTING TREE TO BE REMOVED

T08 PROTECT / RELOCATE TREE
 Tree to be protected if possible or transplanted as close to original position if not

T09 SOWN LAWN
 Sow lawn seed over 100mm raked recycled from site topsoil

T10 MERCURY BAY WEEED NO MOW-LAWN

FITTINGS:

F01 HANDRAIL TO STEPS
 50x25x3mm HDG RHS handrail, paint finish to match Architects specification for handrails to Unit entrance steps. Handrails to be fixed to Corten steel handrail support welded to Corten steel post. Refer to A14171_306 - 307
 Submit shop drawings for Landscape Architects review

F02 STREET LIGHT
 Lighting post and luminaires to lighting engineers specification. Light post to be powdercoated with RAL9007 Grey Aluminium. Refer to A14171_312
 Refer to A14171_309

F03 CODE OMITTED

F04 CODE OMITTED

F05 TIMBER SEATING BOLLARD
 500x500x340mm green heart plank fixed to HDG bracket. Refer to A14171_309

F06 VEHICLE IMPACT BOLLARD
 Refer engineers drawings and specification

F07 CENSOR LIGHT
 Motion sensor spotlight (1 per refuse area)to lighting engineers specification.

F08 PHOTOVOLTAIC BATTERY BANK
 To suppliers specifications

F09 SERVICE COVER
 Refer to engineers specifications and detail for size and exact location

F10 ENTRY ONLY SIGN
 Sign on post to Auckland Council standards

F11 NO ENTRY SIGN
 Sign on post to Auckland Council standards

DRAINAGE:

D01 INSITU CONCRETE DISH CHANNEL
 600mm wide U3 concrete with trowelled finish. Concrete mix and strength to match S02. 30mm deep 'V' shape channel to be formed to fall to centre of channel. Refer to engineers drawing for detail.

D02 SWALE WATER TRANSFER PIPE
 Under driveway for water transfer between swales
 Refer to engineers drawing for detail.

D03 DUCTILE IRON PROFILED GRATE TO CATCHPIT
 600 x 400 mm 'Mano' grate and support frame as supplied by Hygrade to match 30mm profiled channel. Submit shop drawings for Landscape Architects review

D04 SCRUFFY DOME
 600 diameter manhole with low profile 150mm high dome by Hynds. Installation to manufacturers and engineers detail and specification.

D05 OPEN GRATED CHANNEL DRAIN
 To architect's detail and specification

GENERAL NOTES:

All drawings to be read in conjunction with the landscape specifications.

All structural / building work and foundations to Engineer's approval.

All levels to be read with reference to the topographical survey file reference - ---- from ----.

All drainage to be verified by Engineers stormwater design - fittings and sizes subject to Engineer's details.

Drawings not to be scaled, use dimensioned measurements only.

All dimensions to finished surface levels.

Set out to be checked and approved by the Landscape Architect on site.

All concrete walls to be finished with sealer, "Micro Invisio shield" by Streets Ahead Nupave

SOFT LANDSCAPE NOTES:

Refer to Specification for growing medium requirements.

Absolute planting numbers are indicative contractor to ensure sufficient stock to achieve specified planting densities.

All planted areas to be mulched in accordance with drawings and specification.

Refer to Specification for requirements on preparation of planting areas.

LIGHTING NOTES

TO BE READ IN CONJUNCTION WITH ELECTRICAL ENGINEERS PLANS AND SPECIFICATIONS REFER TO ENGINEERS SCHEDULE FOR FITTING TYPES, LOCATIONS AND MOUNTING CO-ORDINATES

Luminaires as per Lighting Schedule.

All luminaires, fittings, brackets and all other materials and parts required to install and commission the full lighting system to be supplied by the Contractor.

All luminaires to be fixed with security fixings to Landscape Architect's approval.

All luminaires, brackets and the like to be painted with manufacturers specified paint system certified for site environment. Refer to specification for paint colours.

All fixings to be vandal resistant. For example, wingnuts are to be replaced with lock nuts or similar.

All fittings are to be oriented to achieve lighting design requirements. Contractor shall allow for installation, checking, and night time re-adjustment of all fittings.

Service access covers shall be flush mounted with security head fixings, and shall be of adequate size to house all required controllers, boards and the like - location to be approved by Engineer.

METALWORK NOTES

Confirm on site all measurements prior to manufacturing - All dimensions nominal only.

Contractor to site measure and measure all components and ensure accurate fit between cowls, collars, flanges, pipes, posts, base plates, fixing surfaces and the like.

Shop drawings of all steel work elements to be provided to Engineer for approval prior to fabrication.

All welds to be buffed smooth prior to hot dip galvanising/zinc plating. All welds & metal work fixings to engineers specification

All non-stainless steel metal work shall be hot dipped galvanised (HDG) or zinc plated and painted - metal work to be cleaned, degreased following completion of all welds and hot dip galvanised/zinc plated in accordance with the Specifications.

All metalwork to be approved by Engineer after fabrication and before hot dip galvanising/zinc plating.

No welding or drilling to be carried out after zinc spraying, site welds permitted only with prior written approval from Engineer. All galvanising to be cleanly finished with flakes removed and inspected prior to painting.

Primer and paint system to Specification. Colours to be confirmed prior to ordering.

Approved exterior grade silicon sealant to all joints after fixing.

Contractor to confirm all Handrails, Ballustrades, Fittings and Hinges to meet required statutory loadings / standards and be approved by Engineer.

Contractor to provide PS1 certification for metalwork elements and footings with final approved shop drawings.

All fixings to be non-ferrous - all fixings to ensure adequate separation of metalwork elements.

All stainless steel to be grade 316 unless otherwise specified.

Metalwork fixing plates and fittings not to be used as a guide for drilling or cutting.

PAVING NOTES

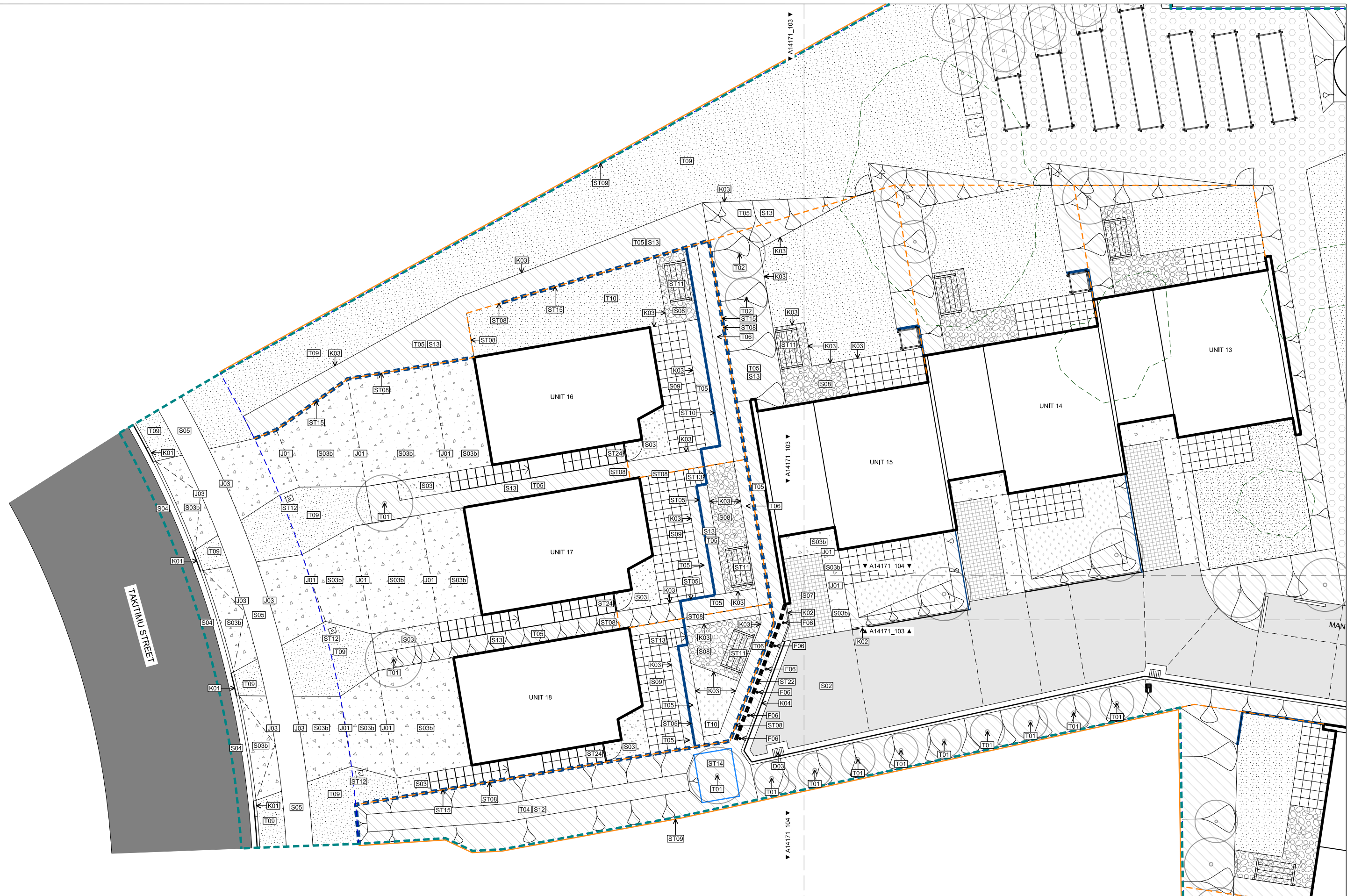
Compaction of subbase to be inspected by engineer prior to commencement of paving.

All insitu concrete paving to be sawcut in accordance with Specification and drawings.

All insitu concrete paving to include expansion joints in accordance with Specification and drawings to Engineers approval.

All concrete finishes to be in accordance with NZS 3114:1987

Sample areas 1m x 1m of all concrete finish and paving types to be approved by Landscape Architect prior to commencement of paving works. Sample areas to be separate from final paving works.



NOTES
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 FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

REV	DATE	DESCRIPTION
-	15.09.14	DRAFT ISSUE FOR COSTING
A	24.10.14	DETAILED DESIGN 95%
B	03.11.14	TENDER ISSUE



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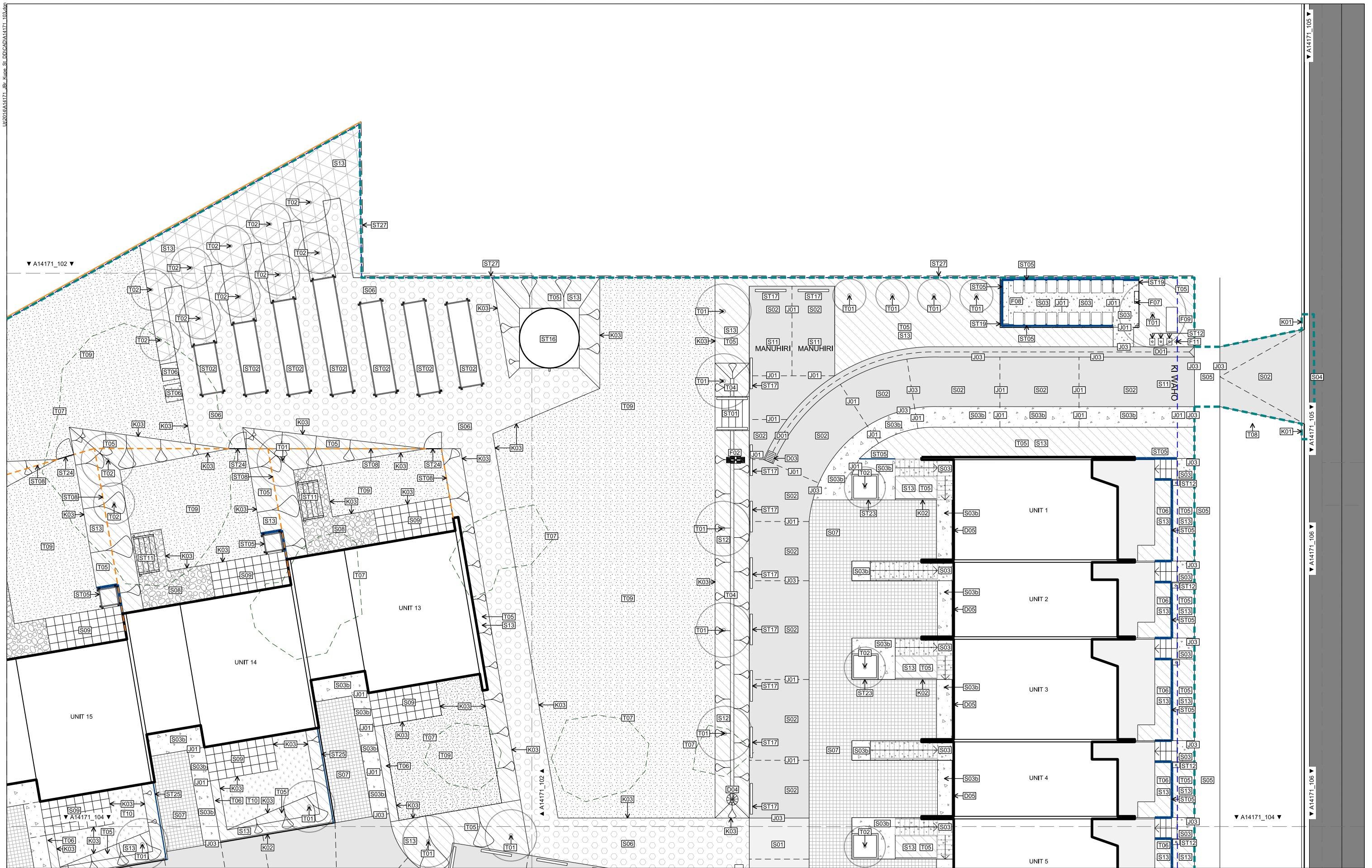
TENDER

Kāinga Tuatahi

General Arrangement Plan
 Sheet 1 of 5

Design	JBr	Scale	Date
Drawn	KDo	1:100 @ A1	15.09.2014
Check	YTa	1:200 @ A3	
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DRAWING NO. **A14171_102** REVISION **(B)**



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CLIENT **Ngāti Whātua Ōrākei**
 CONSULTANTS
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TENDER

Kāinga Tuatahi
 General Arrangement Plan
 Sheet 2 of 5

Des'gn	JBr	Scale	Date
Drawn	KDo	1:100 @ A1	15.09.2014
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DRAWING NO. **A14171_103** REVISION **(B)**



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Kāinga Tuatahi

General Arrangement Plan
 Sheet 3 of 5

Design	JBr	Scale	1:100 @ A1	Date	15.09.2014
Drawn	KDo	Check	1:200 @ A3		
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DRAWING NO. REVISION

A14171_104

(B)



NOTES
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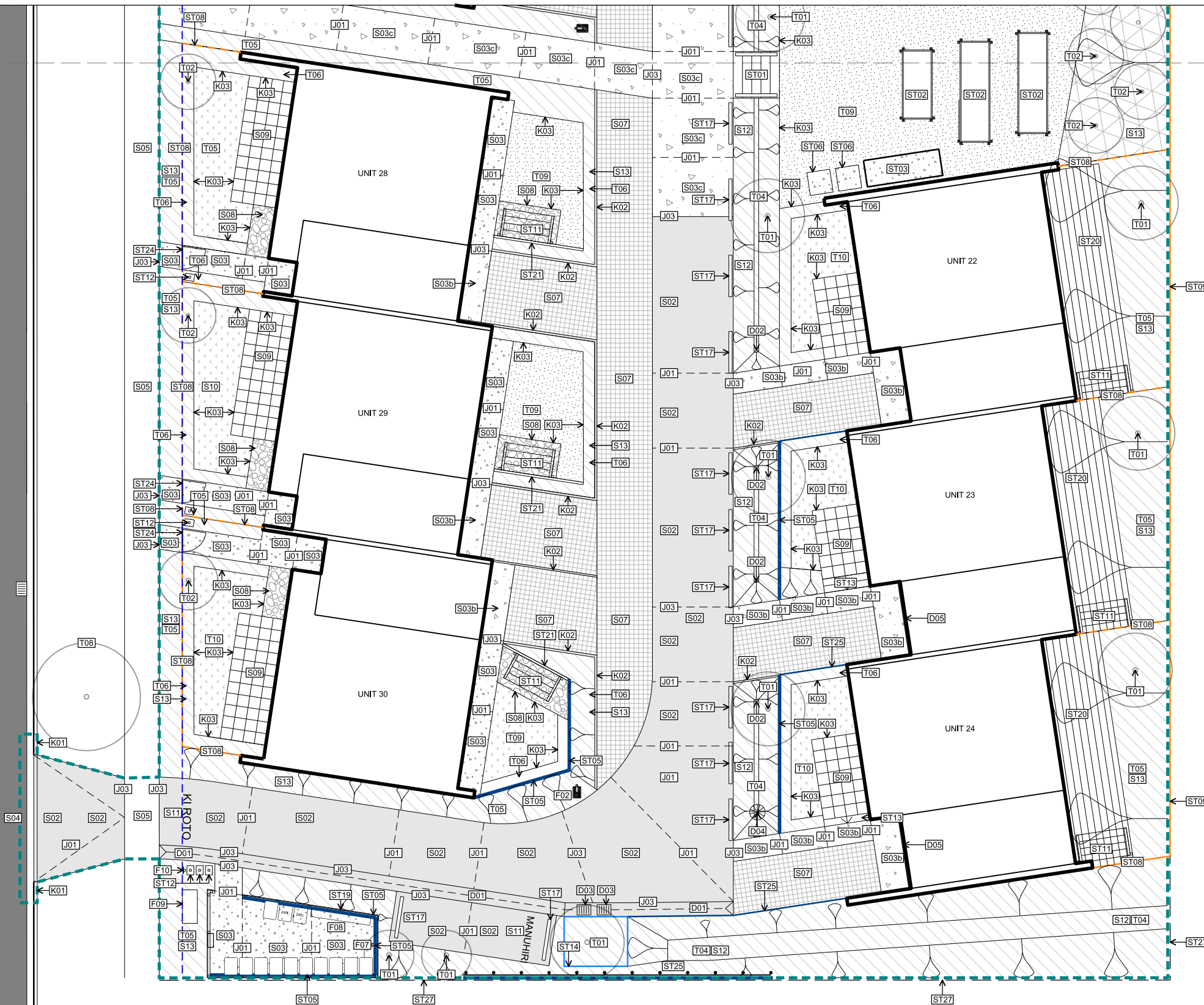
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Kāinga Tuatahi

General Arrangement Plan
 Sheet 4 of 5

Design	JBr	Scale	1:100 @ A1	Date	15.09.2014
Drawn	KDo	Check	YTa	Appv'd	JBr
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DRAWING NO. **A14171_105** REVISION **(B)**



NOTES

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Kāinga Tuatahi

General Arrangement Plan
Sheet 5 of 5

Design	JBr	Scale	Date
Drawn	KDo	1:100 @ A1	15.09.2014
Check	YTa	1:200 @ A3	
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DRAWING NO. REVISION

A14171_106

(A)

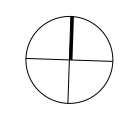
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DISCLAIMER: LEVELS HAVE BE COORDINATED WITH CIVIL ENGINEERS AND ARCHITECTS LEVEL INFORMATION AND SHOULD BE READ IN CONJUNCTION WITH THEIR RELEVANT DRAWINGS



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A	03.11.14	TENDER ISSUE



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TENDER

Kāinga Tuatahi

Levels Plan
 Sheet 1 of 5

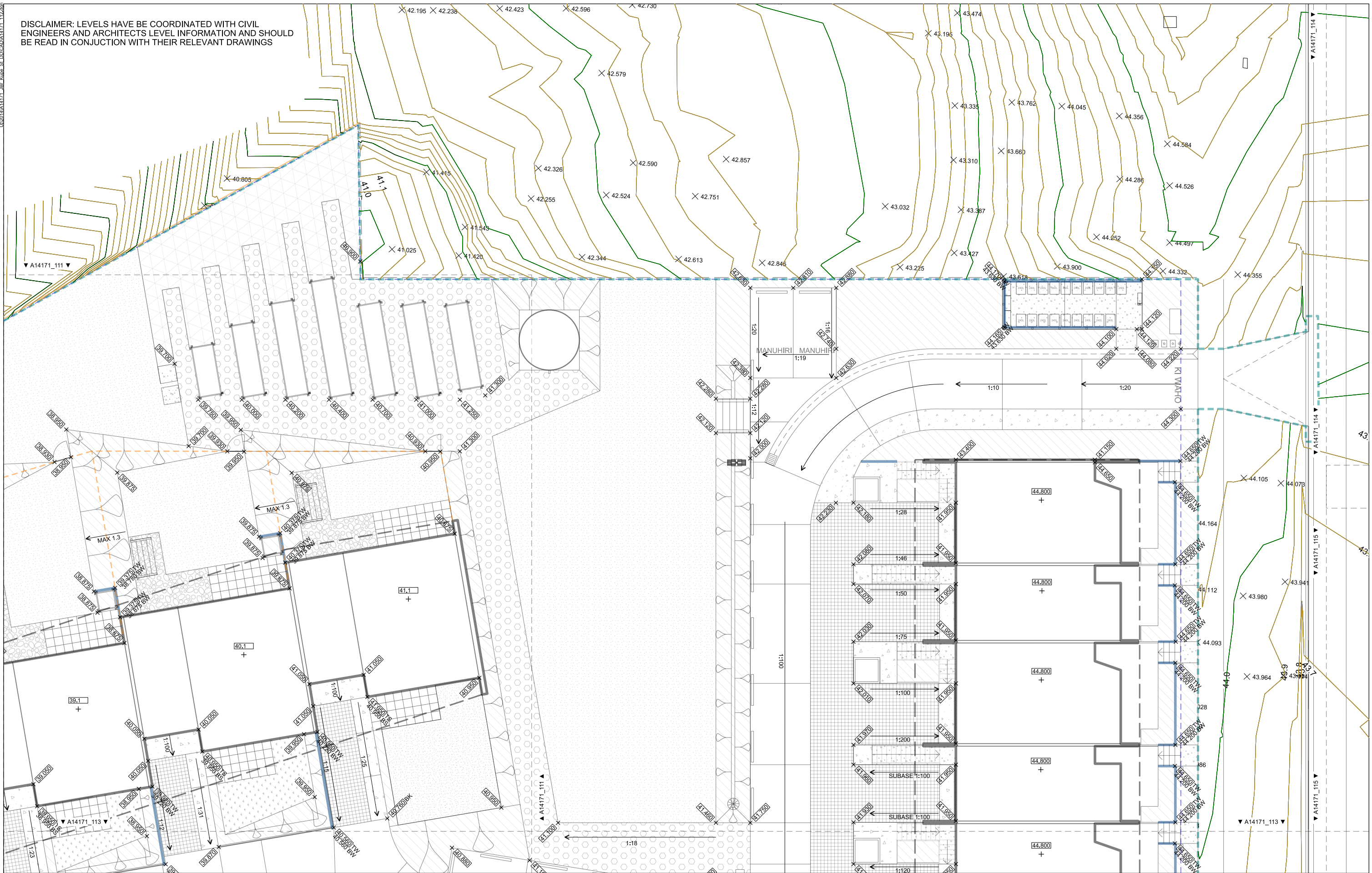
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Check	YTa	1:200 @ A3	
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A14171_111		(A)	

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NOTES
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Kāinga Tuatahi

Levels Plan
 Sheet 2 of 5

Design	JBr	Scale	1:100 @ A1	Date	01.09.2014
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Levels Plan
Sheet 4 of 5

Design	JBr	Scale	1:100 @ A1	Date	01.09.2014
Drawn	BCI	Check	YTa	Appv'd	JBr
DRAWING NO.			REVISION		

A14171_114

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-	24.10.14	DETAIL DESIGN 95%
A	03.11.14	TENDER ISSUE



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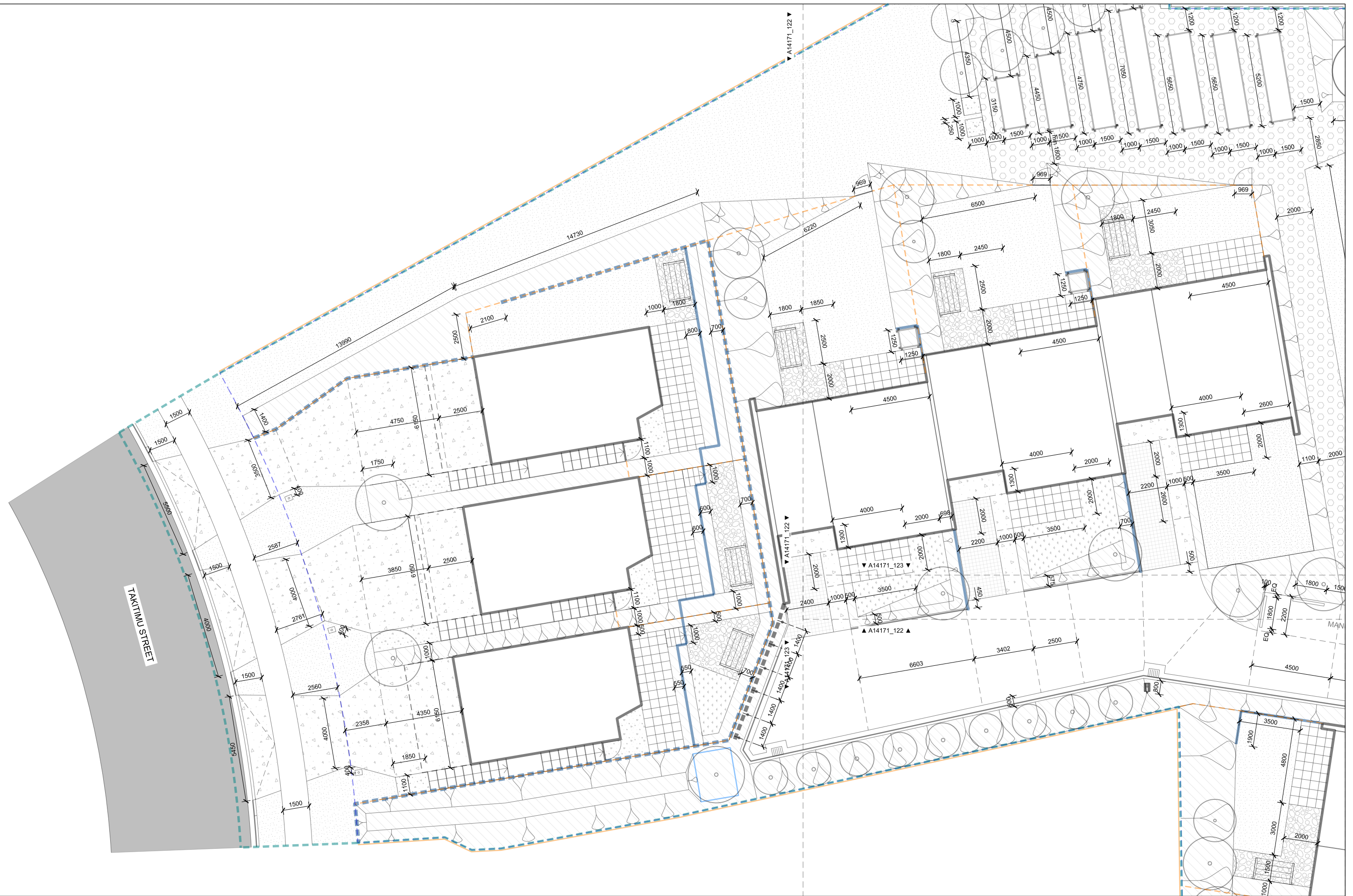
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Kāinga Tuatahi

Levels Plan
 Sheet 5 of 5

Design	JBr	Scale	1:100 @ A1	Date	01.09.2014
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-	03.11.14	TENDER ISSUE



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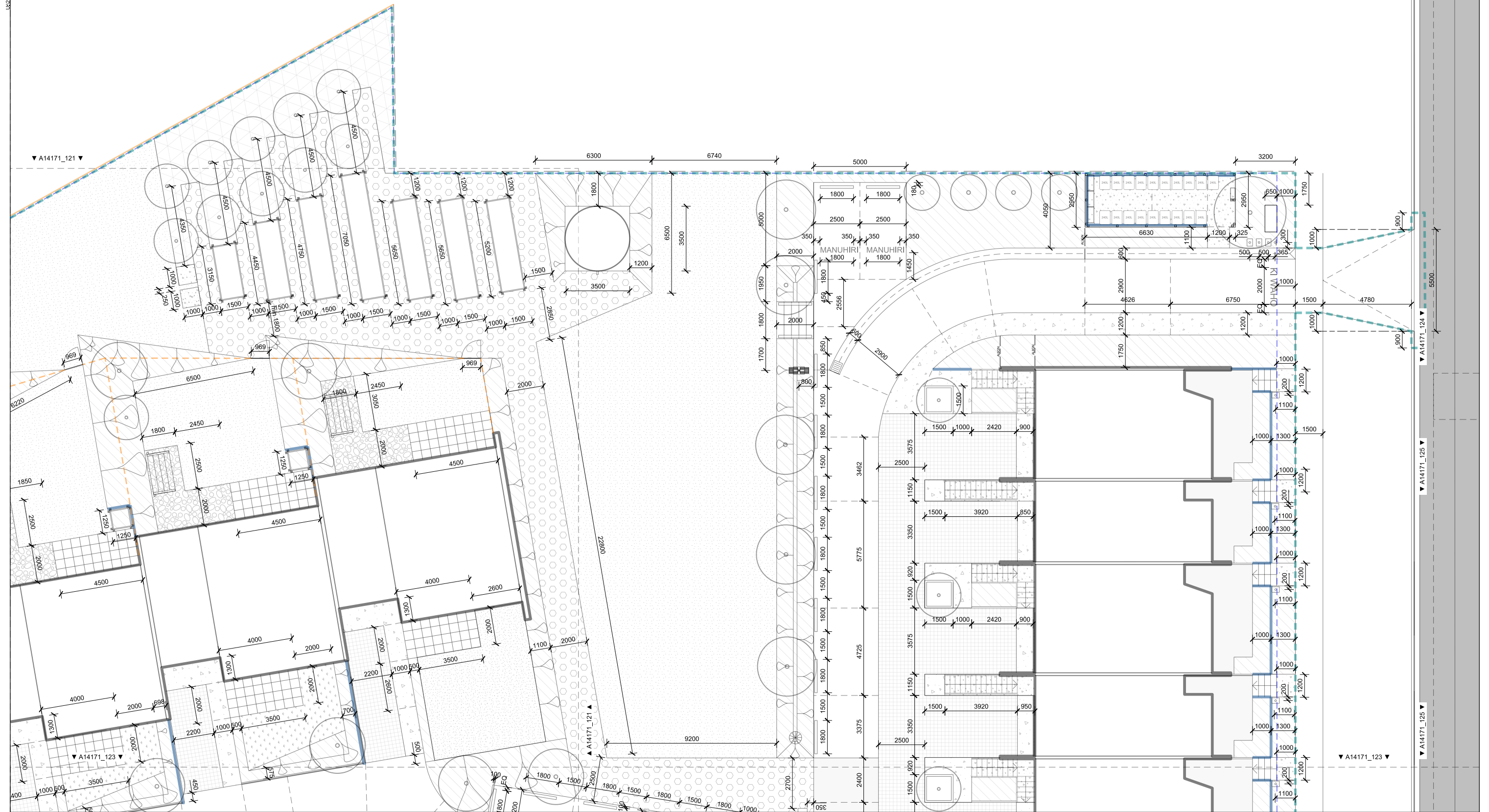
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Kāinga Tuatahi

Setout Plan
 Sheet 1 of 5

Design	JBr	Scale	Date
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A14171_121	-



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Kāinga Tuatahi

Setout Plan
 Sheet 2 of 5

Design	JBr	Scale	1:100 @ A1	Date	01.09.2014
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A14171_122





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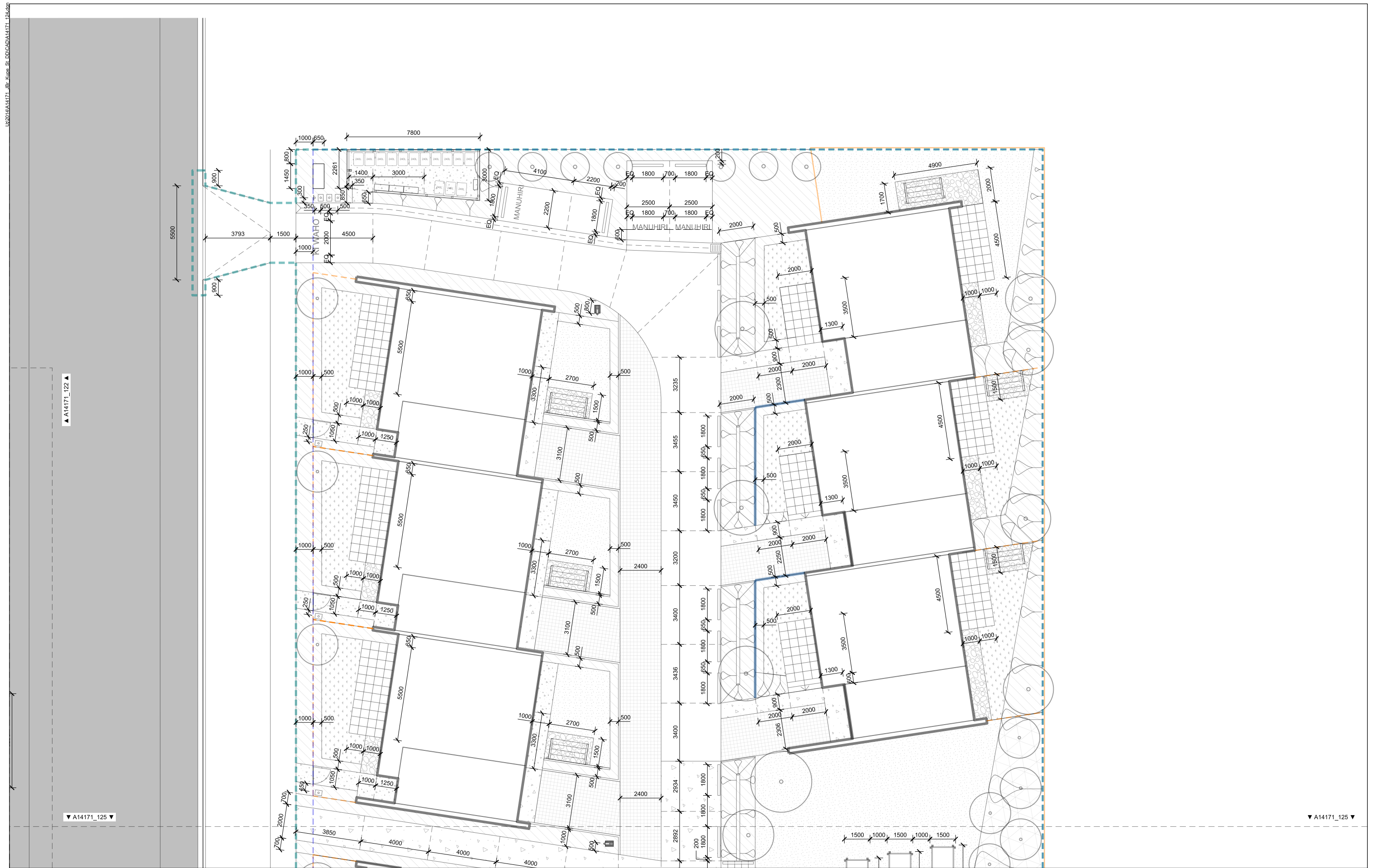
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Kāinga Tuatahi
 Setout Plan
 Sheet 3 of 5

Design JBr	Scale 1:100 @ A1	Date 01.09.2014
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Kāinga Tuatahi

Setout Plan
Sheet 4 of 5

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Drawn	KDo	Check	YTa	Appv'd	JBr
DRAWING NO.			REVISION		

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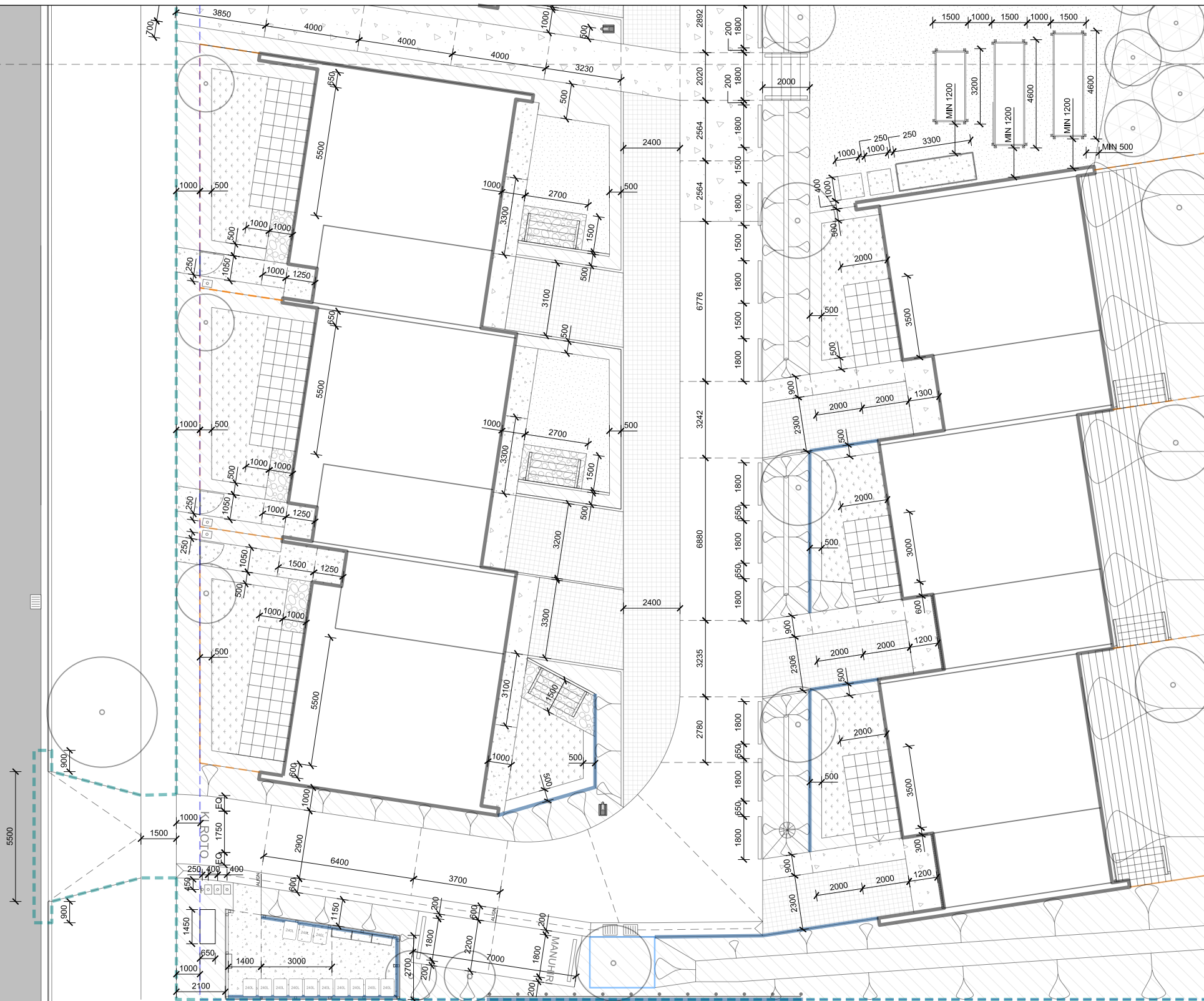
▲ A14171_124 ▲

KUPE STREET

▲ A14171_122 ▲

▲ A14171_123 ▲

▲ A14171_124 ▲



NOTES

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-	03.11.14	TENDER ISSUE



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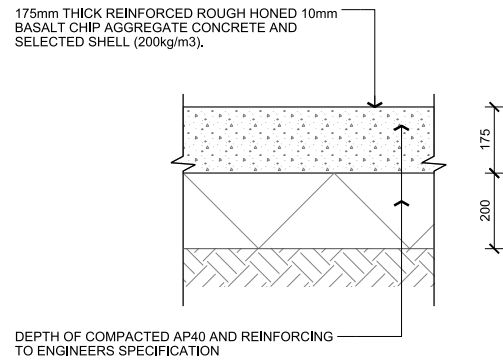
Setout Plan
Sheet 5 of 5

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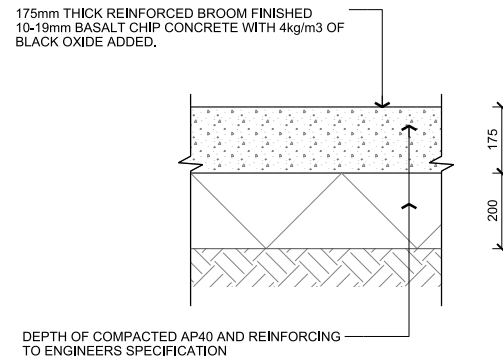
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A14171_125

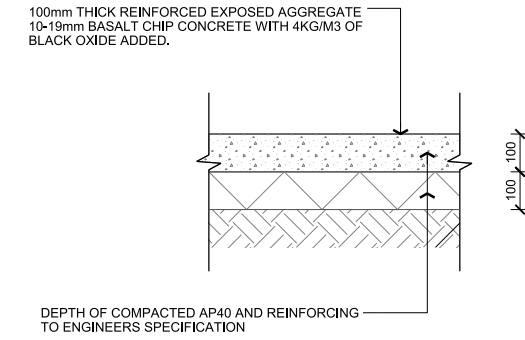




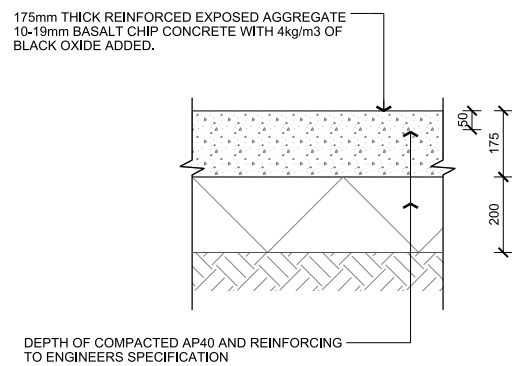
01 DETAIL [S01] - IN-SITU CONCRETE HONED FINISH
1:10 @ A1 1:20 @ A3



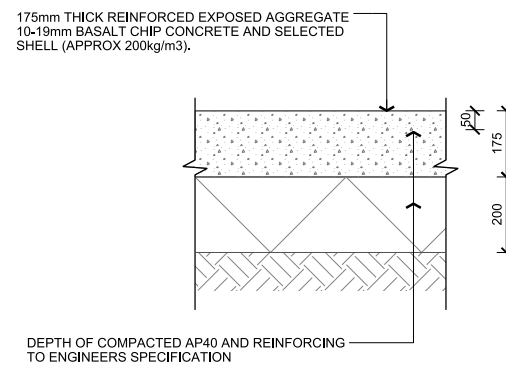
02 DETAIL [S02] - IN-SITU CONCRETE BROOM FINISH
1:10 @ A1 1:20 @ A3



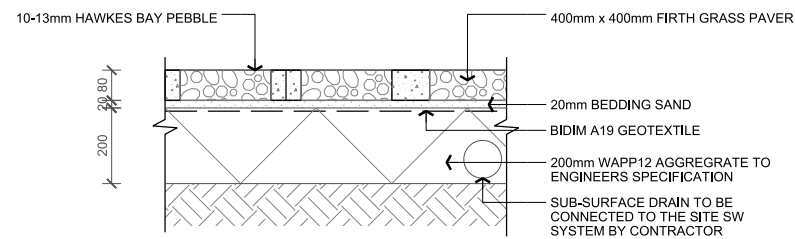
03 DETAIL [S03] - INSITU CONCRETE EXPOSED AGGREGATE
1:10 @ A1 1:20 @ A3



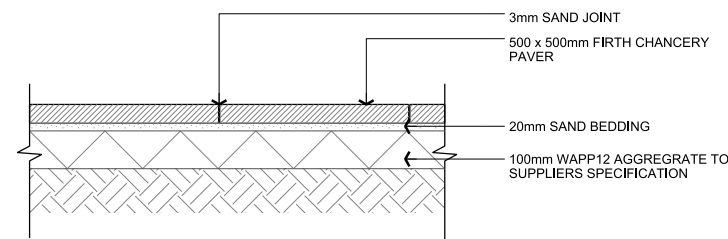
04 DETAIL [S03b] - INSITU CONCRETE EXPOSED AGGREGATE
1:10 @ A1 1:20 @ A3



05 DETAIL [S03c] - INSITU CONCRETE EXPOSED AGGREGATE
1:10 @ A1 1:20 @ A3



06 DETAIL [S07] - TYPICAL GRASS PAVER
1:10 @ A1 1:20 @ A3



07 DETAIL [S09] - TYPICAL BACKYARD PAVER
1:10 @ A1 1:20 @ A3

NOTES

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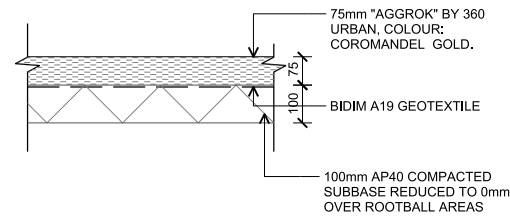
Kāinga Tuatahi

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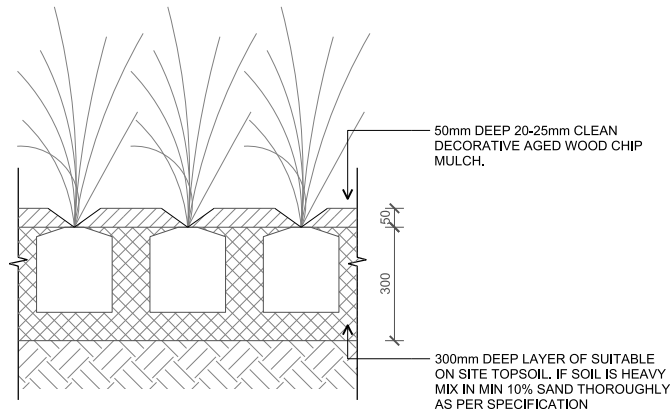
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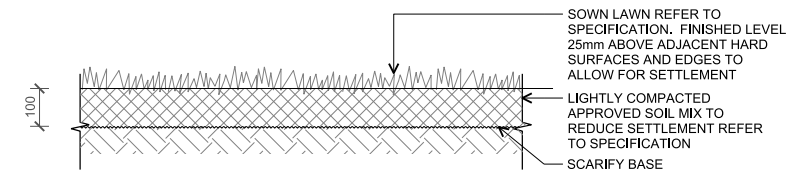
DRAWING NO. **A14171_300** REVISION **(A)**



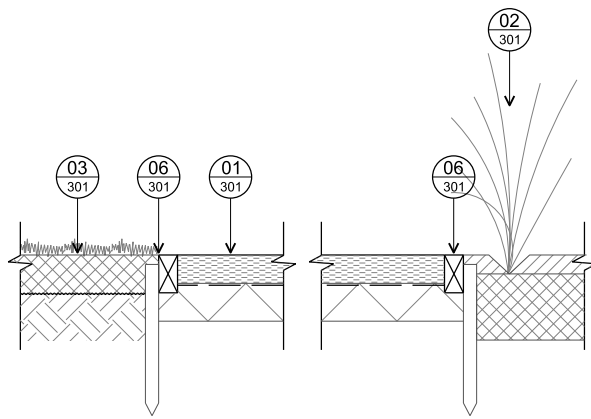
01 DETAIL [S06] - AGGROK TYPICAL DETAIL
 1:10 @ A1 1:20 @ A3



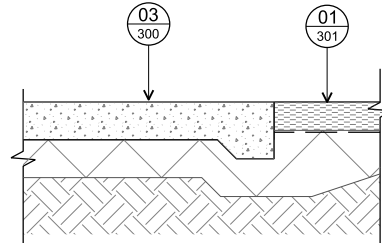
02 DETAIL - TYPICAL PLANTING
 1:10 @ A1 1:20 @ A3



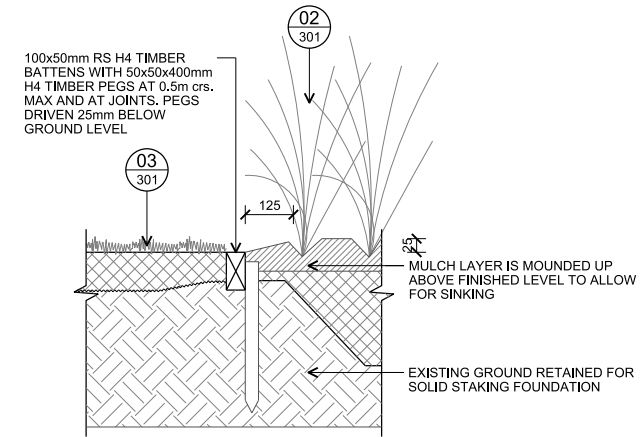
03 DETAIL [T09] - TYPICAL SOWN LAWN
 1:10 @ A1 1:20 @ A3



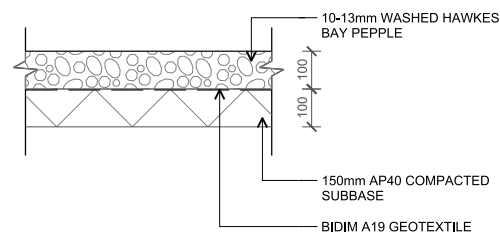
04 DETAIL - AGGORK EDGING [T09 & S06] [S06 & T05/T06]
 1:10 @ A1 1:20 @ A3



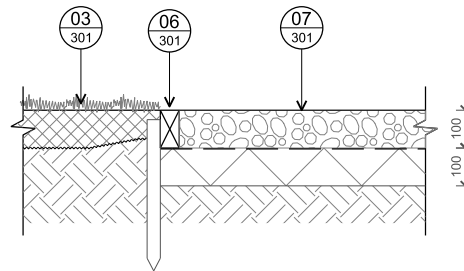
05 DETAIL - HOGGIN / PATHWAY INTERFACE [S03 & S06]
 1:10 @ A1 1:20 @ A3



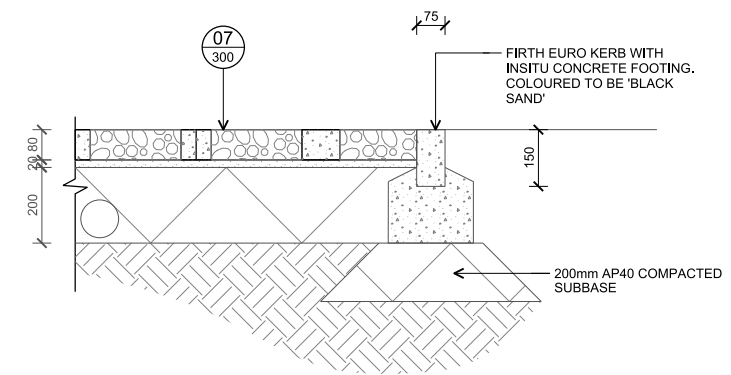
06 DETAIL - LAWN/PLANTER BED INTERFACE
 1:10 @ A1 1:20 @ A3



07 DETAIL [S08] - LOOSE PEBBLE
 1:10 @ A1 1:20 @ A3



08 DETAIL - SOWN LAWN / PEBBLE INTERFACE [T09 & S08]
 1:10 @ A1 1:20 @ A3



09 DETAIL [S07] - TYPICAL GRASS PAVER EDGING
 1:10 @ A1 1:20 @ A3

NOTES

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Details

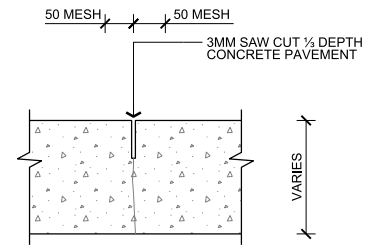
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A14171_301

A



01 DETAIL [J01] - SAWCUT
 - 1:5 @ A1 1:5 @ A3

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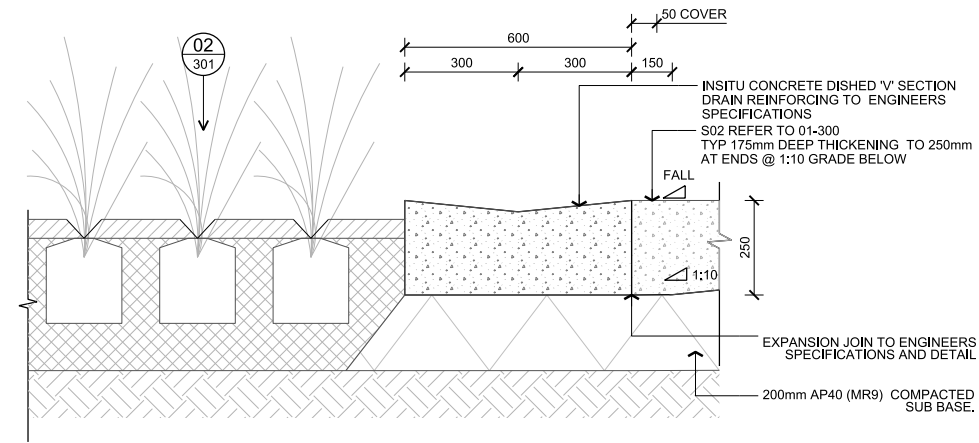
Kāinga Tuatahi

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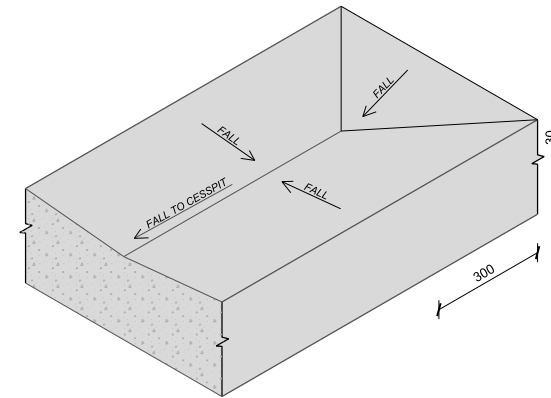
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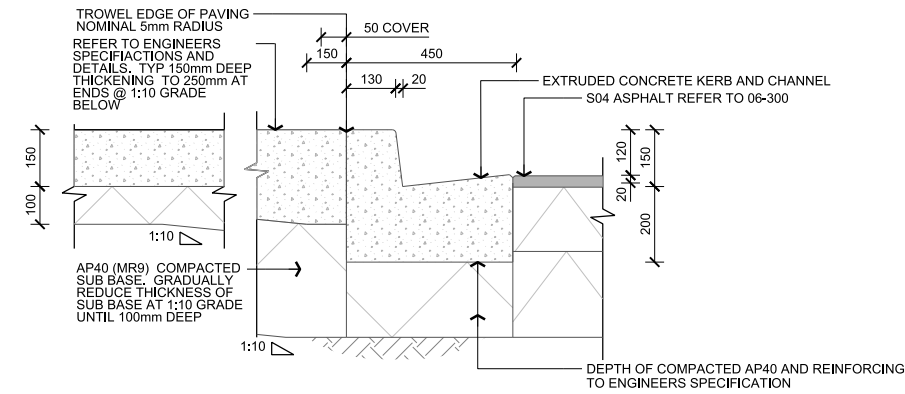
DRAWING NO.	REVISION
A14171_302	(A)



01 DETAIL [D01] - PLANTER BED & DISH DRAIN INTERFACE
 1:10 @ A1 1:20 @ A3



02 DETAIL [D08] - DISH DRAIN END
 1:10 @ A1 1:20 @ A3



03 DETAIL [K01] - KERB AND CHANNEL REINSTATEMENT
 1:10 @ A1 1:20 @ A3

NOTES

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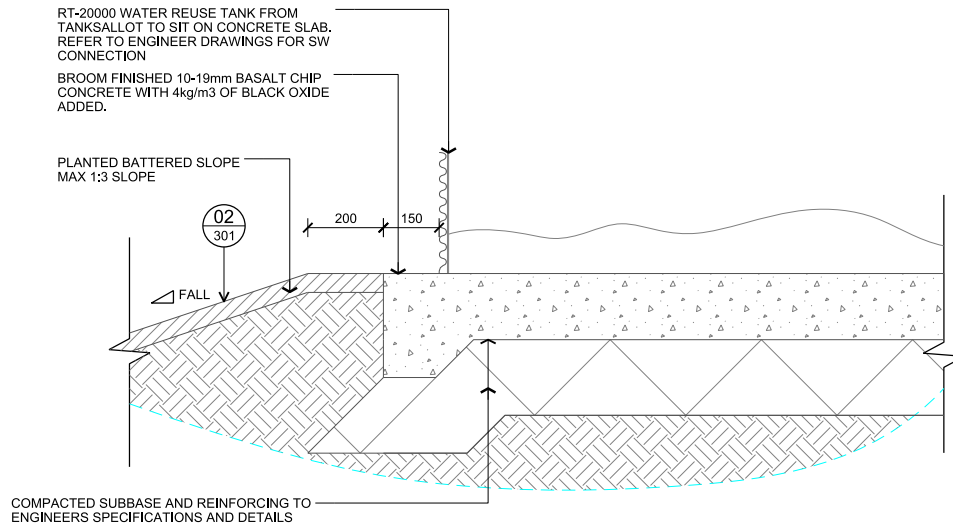
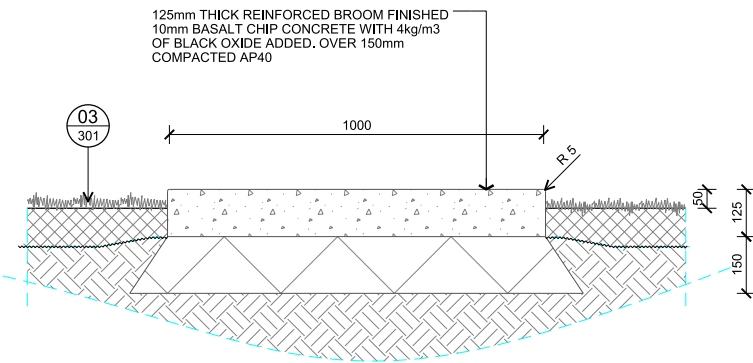
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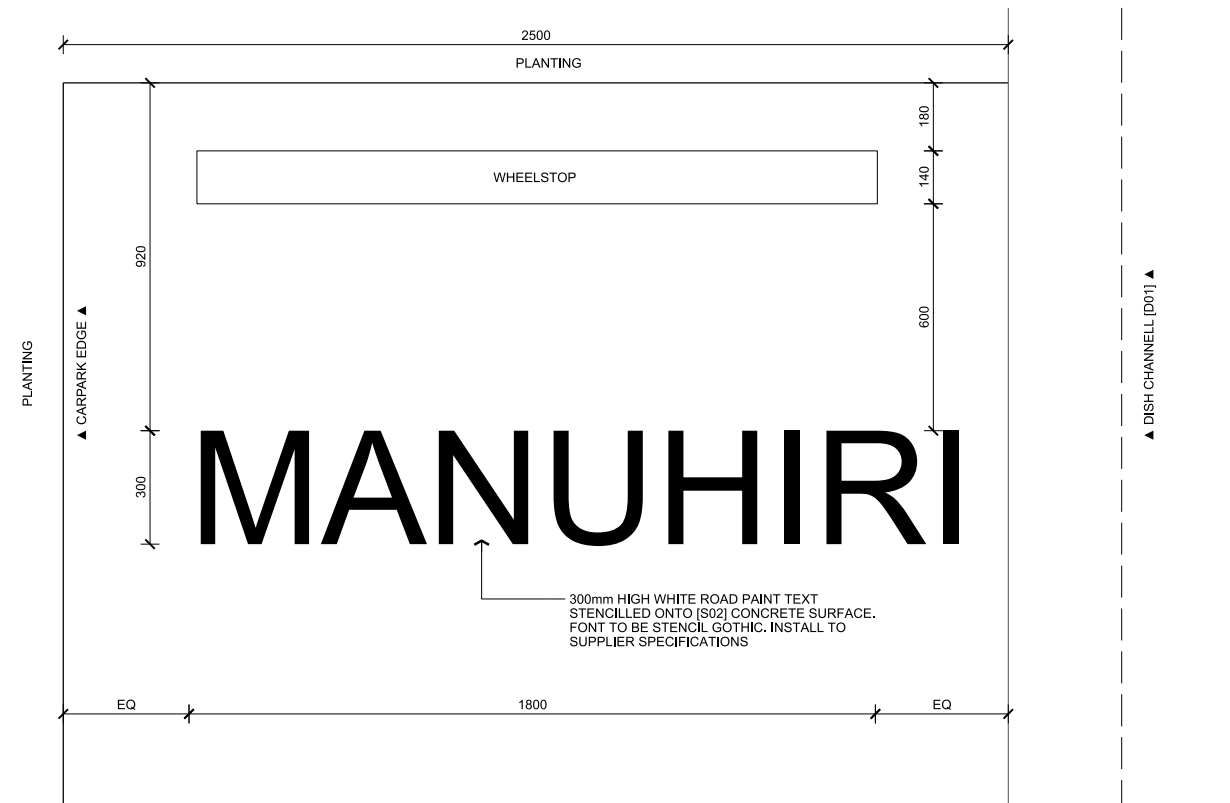
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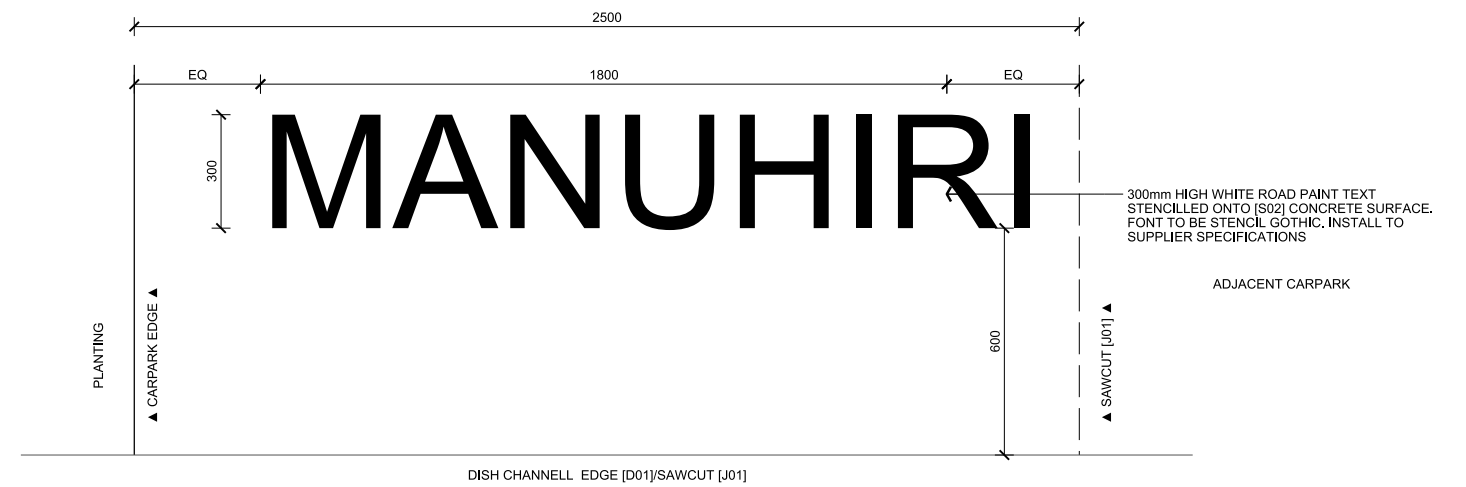


01 DETAIL [ST06]/[ST03] - COMPOST BIN/WORM BIN/WATER REUSE TANK CONCRETE PAD
1:10 @ A1; 1:20 @ A3

02 DETAIL [ST16] - LARGE WATER REUSE TANK CONCRETE PAD
1:10 @ A1; 1:20 @ A3

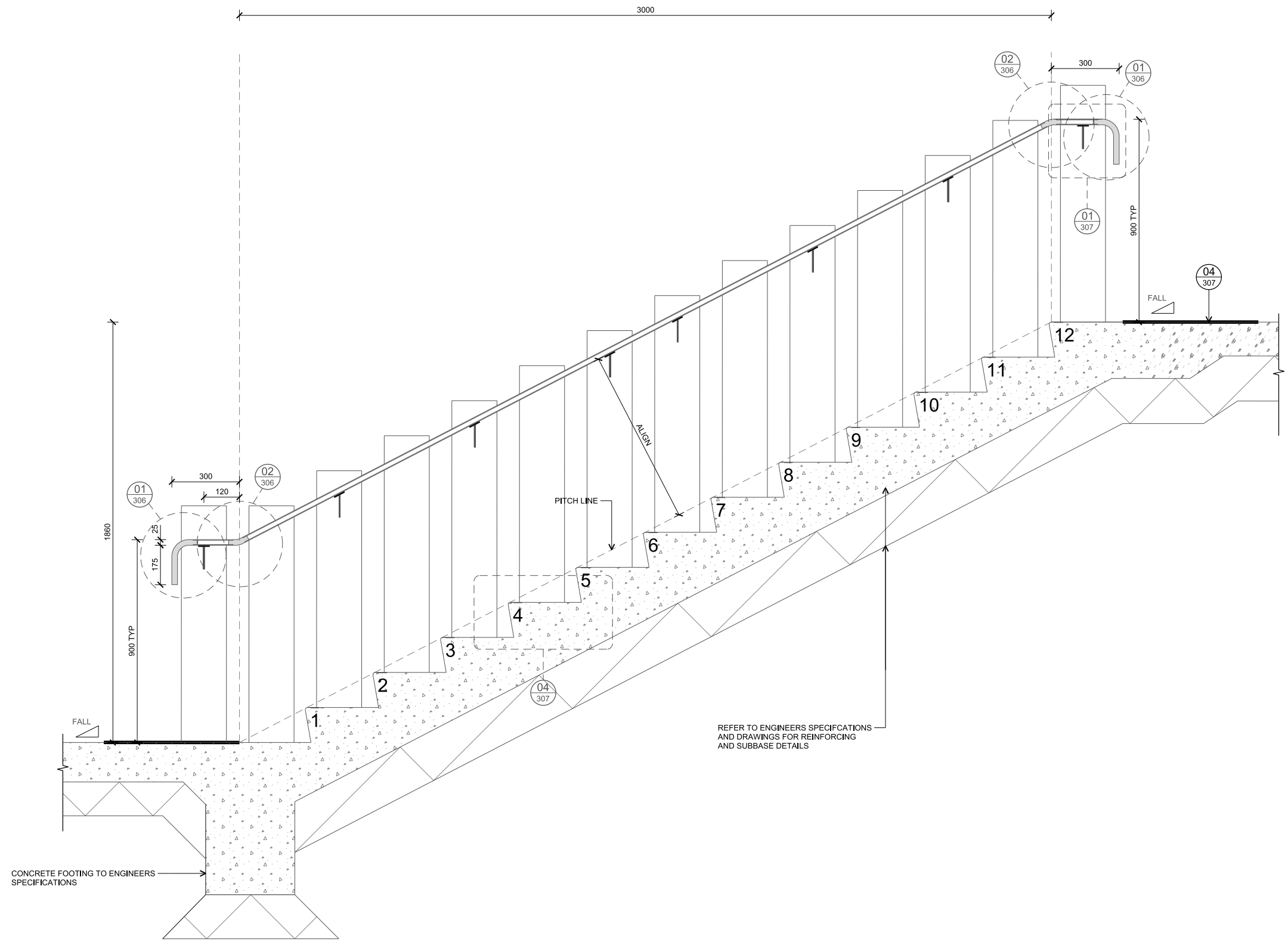


03 DETAIL [S11] - STENCILLED MANUHIRI 'VISITOR' SIGN
1:10 @ A1; 1:20 @ A3



04 DETAIL [S11] - STENCILLED MANUHIRI 'VISITOR' SIGN
1:10 @ A1; 1:20 @ A3

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01 SECTION [ST18] - TYPICAL STAIR DETAIL
501 1:10 @ A1; 1:20 @ A3

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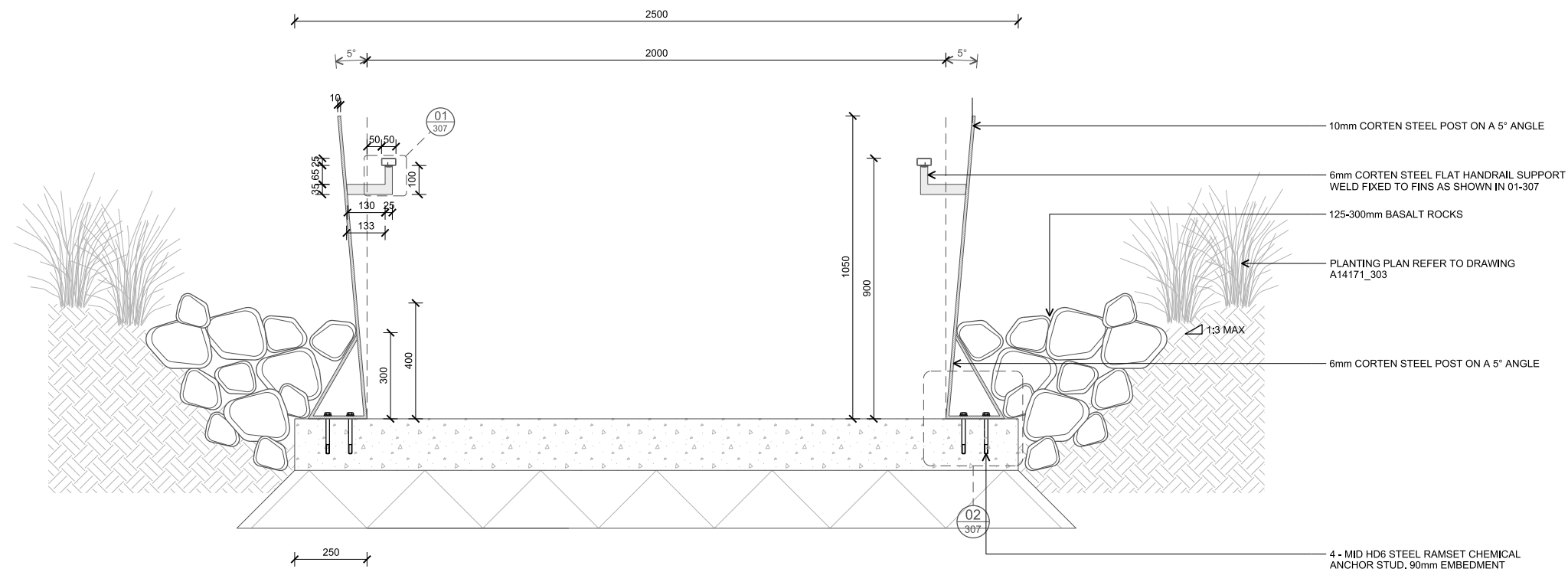
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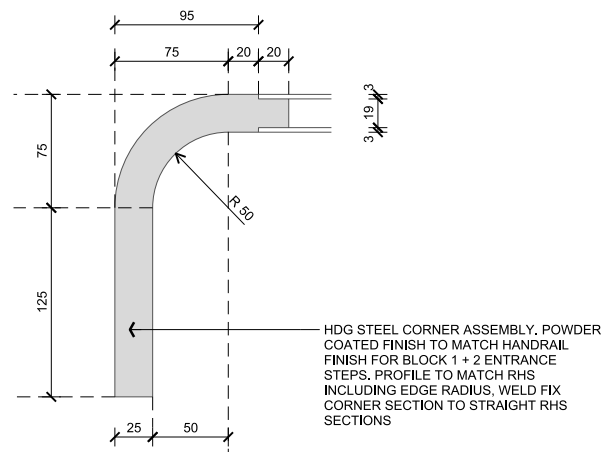
Stair Detail

Design	JBr	Scale	Date
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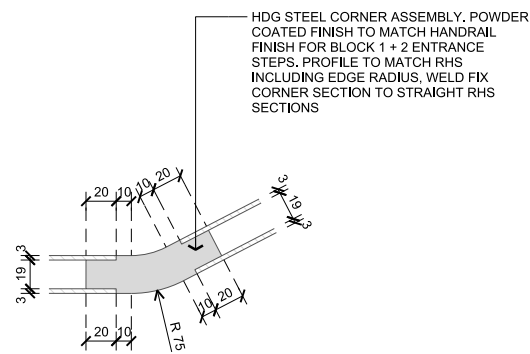
DRAWING NO. **A14171_305** REVISION **(A)**



01 SECTION [ST18] - TYPICAL STAIR CROSS SECTION
 1:10 @ A1; 1:20 @ A3



02 DETAIL: HANDRAIL - END
 2:5 @ A1 1:5 @ A3



03 DETAIL: HANDRAIL - JOINT
 2:5 @ A1 1:5 @ A3

NOTES

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Stair Handrail Details

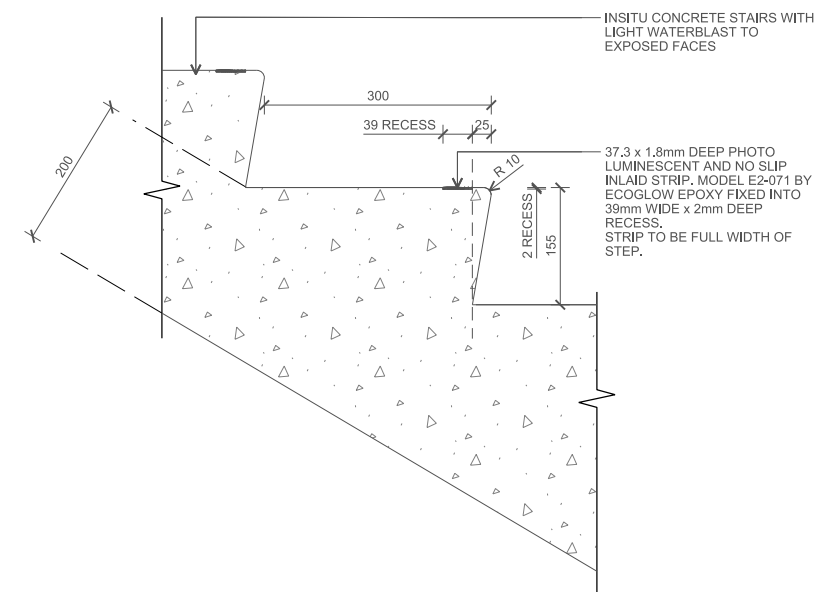
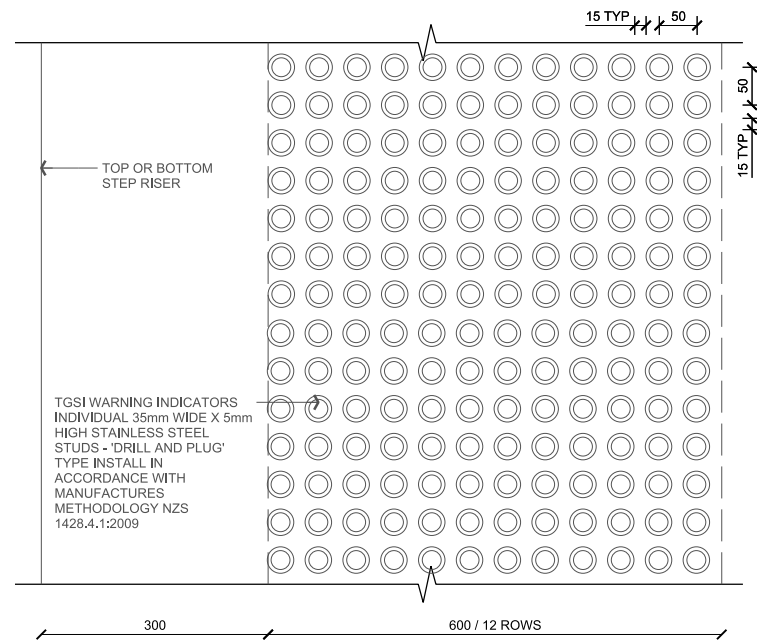
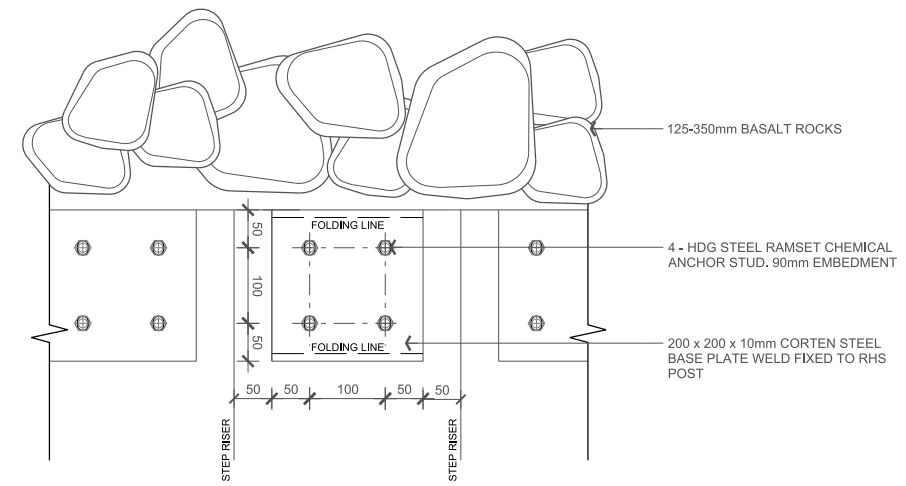
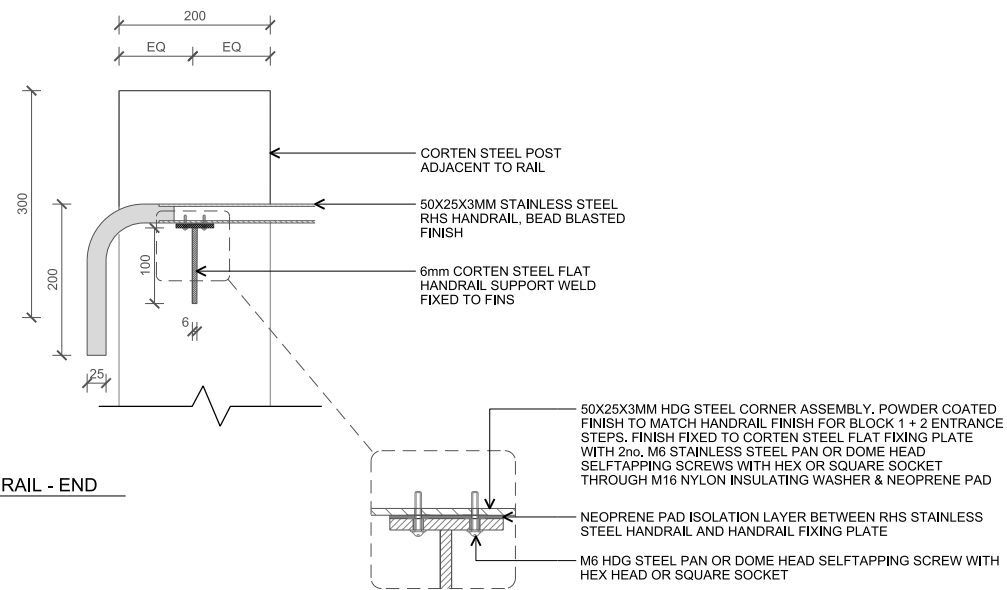
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Drawn	KDo	AS SHOWN	01.09.2014
Check	YTa	AS SHOWN	
Appv'd	JBr	Copyright © Boffa Miskell Limited 2014	

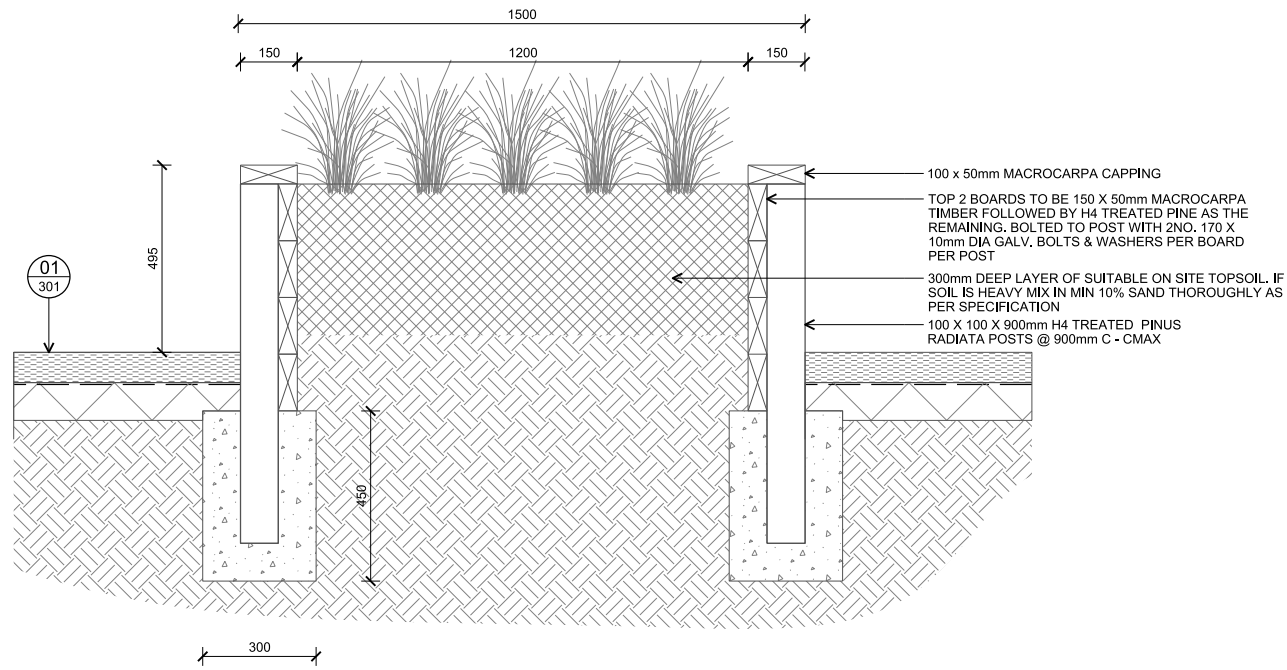
DRAWING NO. REVISION

A14171_306

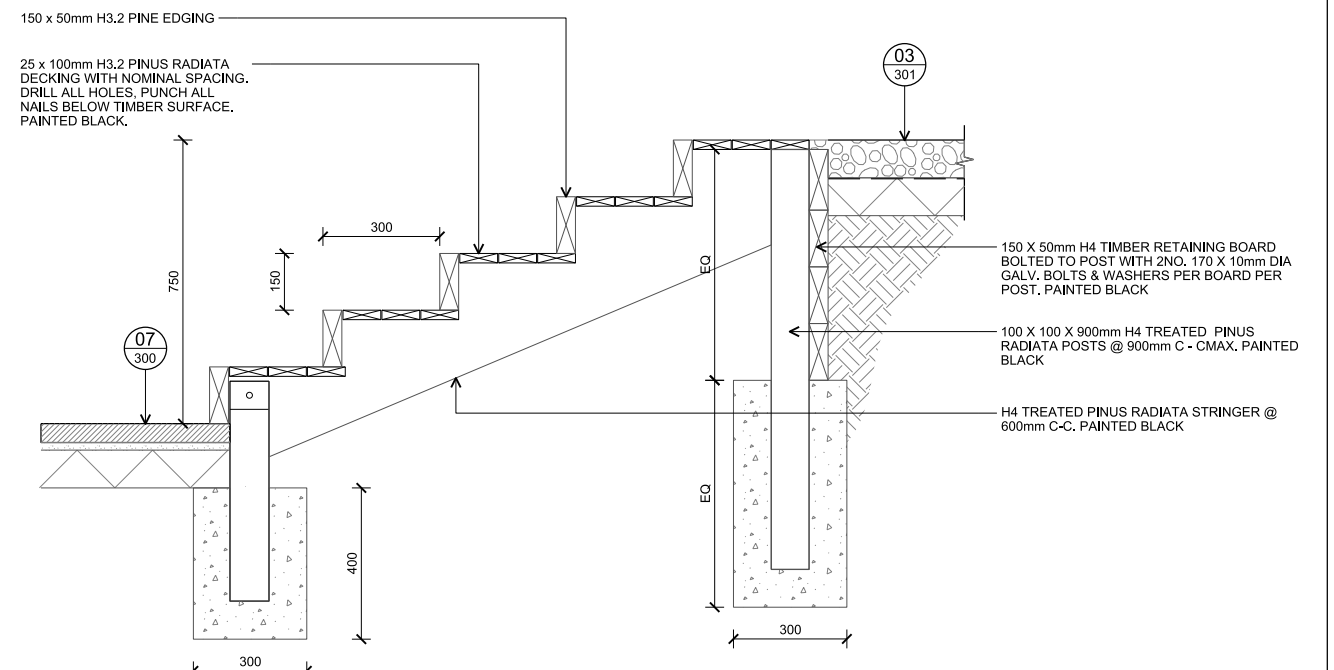
(A)

TENDER

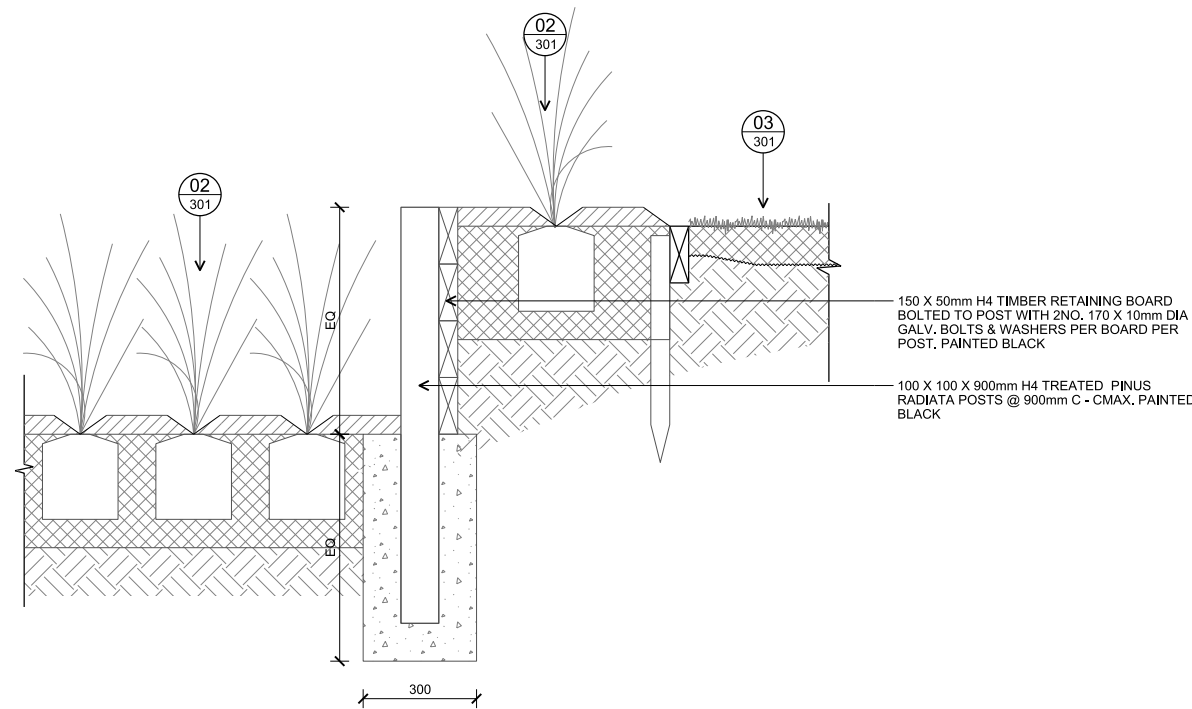




01 TYPICAL SECTION [ST02] - RAISED VEGETABLE PLANTER
1:10 @ A1; 1:20 @ A3



02 SECTION [ST13] - TIMBER STAIRS
1:10 @ A1; 1:20 @ A3



03 TYPICAL SECTION [ST05] - RETAINING WALL/RAISED GARDEN
1:10 @ A1; 1:20 @ A3

NOTES
CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;
CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;
FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

REV	DATE	DESCRIPTION
-	24.10.14	DETAILED DESIGN
A	03.11.14	TENDER ISSUE

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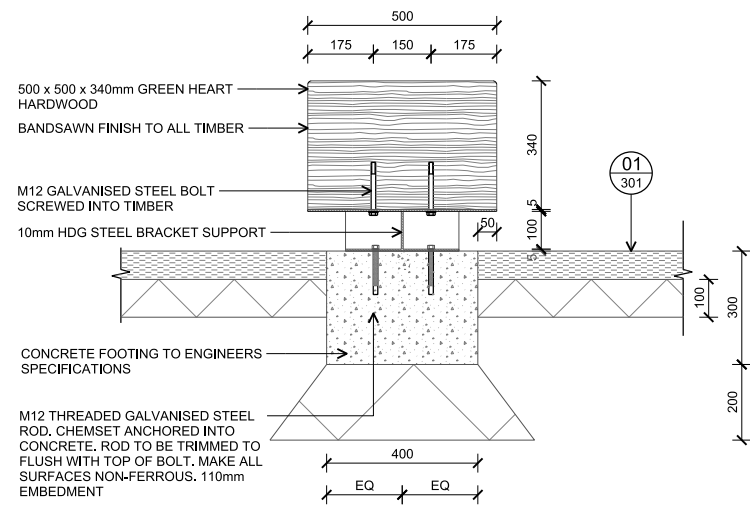
TENDER

Kāinga Tuatahi

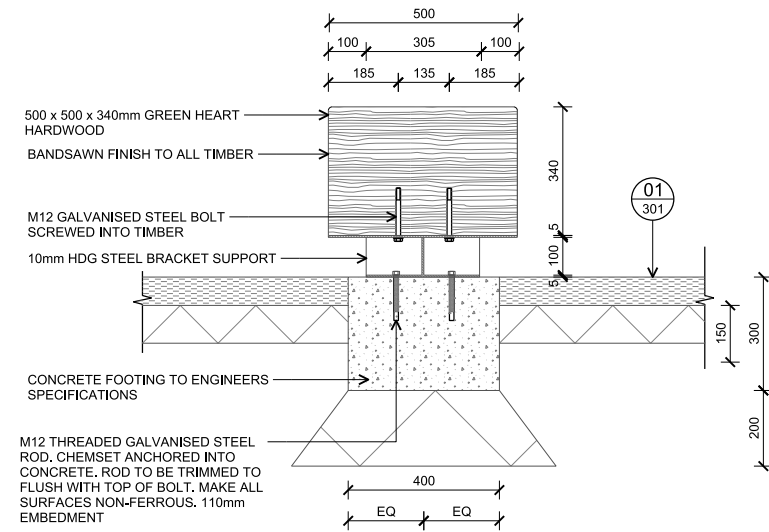
Retaining Structures

Design	JBr	Scale	Date
Drawn	KDo	1:10 @ A1	01.09.2014
Check	YTa	1:20 @ A3	
Appv'd	JBr	Copyright © Boffa Miskell Limited 2014	

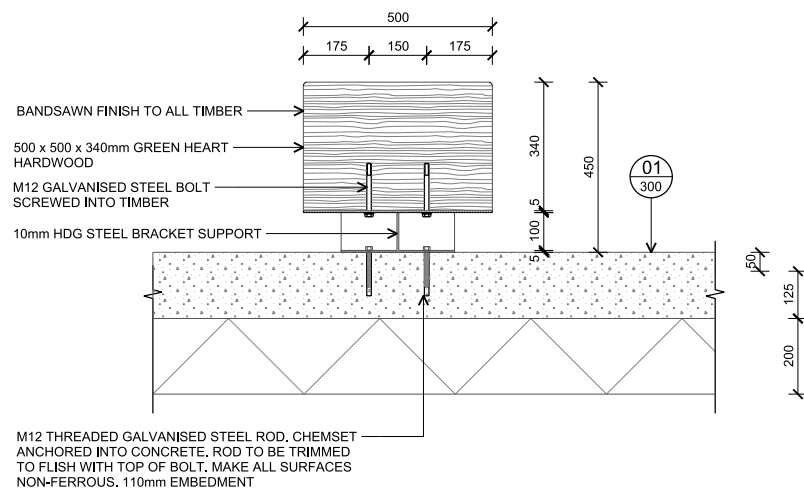
DRAWING NO. **A14171_308** REVISION **(A)**



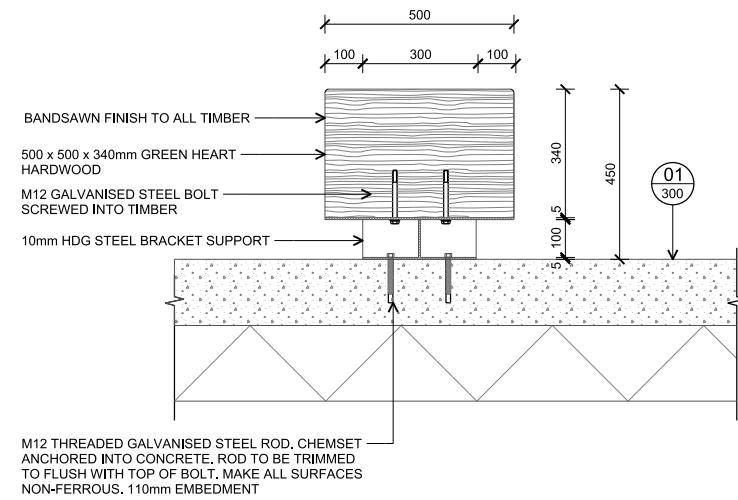
01 SECTION [F05] FRONT - BOLLARD/SEAT & AGGROK [F05 & SO6]
1:10 @ A1; 1:20 @ A3



02 SECTION [F05] SIDE - BOLLARD/SEAT & AGGROK
1:10 @ A1; 1:20 @ A3



03 SECTION [F05] FRONT - BOLLARD/SEAT & HONED CONCRETE
1:10 @ A1; 1:20 @ A3



04 SECTION [F05] SIDE - BOLLARD/SEAT & HONED CONCRETE
1:10 @ A1; 1:20 @ A3

NOTES

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REV	DATE	DESCRIPTION
-	24.10.14	DETAILED DESIGN
A	03.11.14	TENDER ISSUE

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Kāinga Tuatahi

Seats

Design	JBr	Scale	Date
Drawn	KDo	1:10 @ A1	01.09.2014
Check	YTa	1:20 @ A3	
Appv'd	JBr	Copyright © Boffa Miskell Limited 2014	

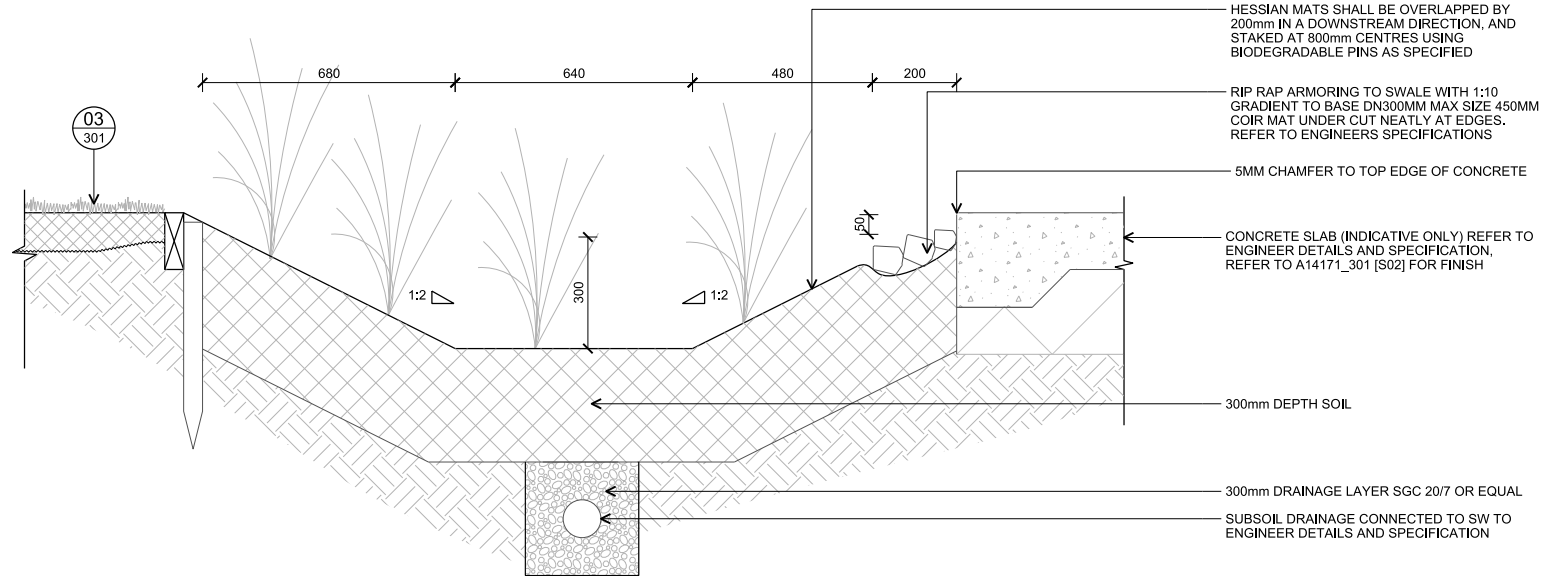
DRAWING NO. REVISION

A14171_309

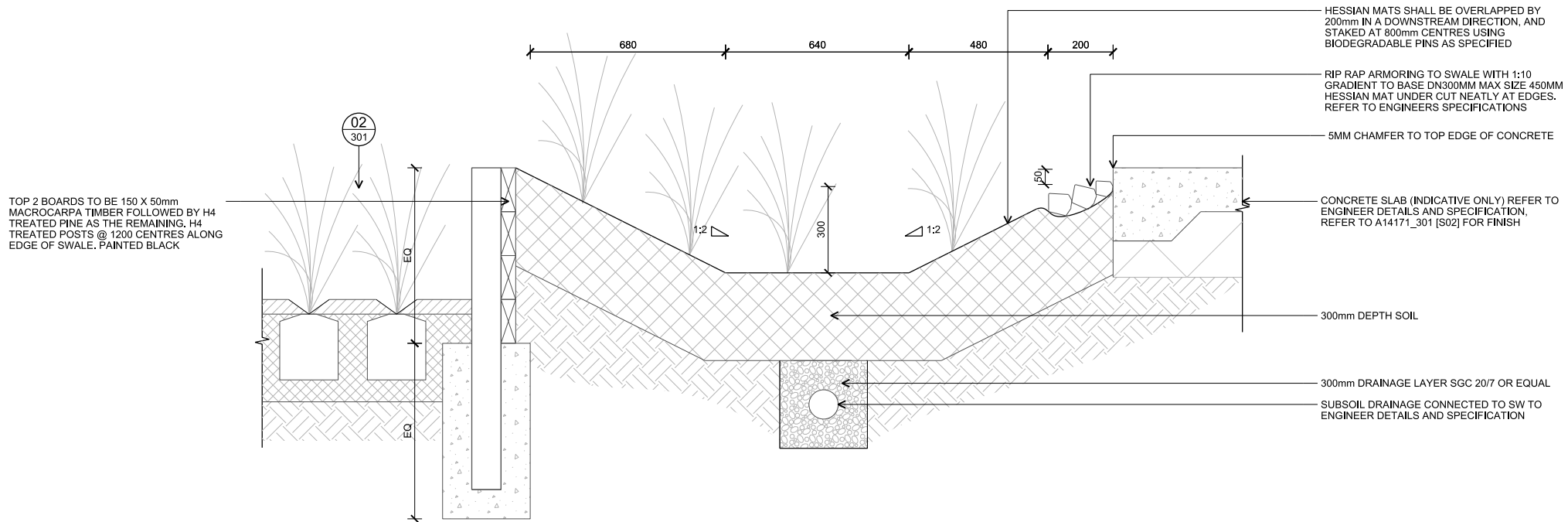
(A)

TENDER

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01 SECTION - TYPICAL SWALE SECTION
1:10 @ A1; 1:20 @ A3



02 SECTION - TYPICAL SWALE SECTION + RETAINING WALL
1:10 @ A1; 1:20 @ A3

NOTES

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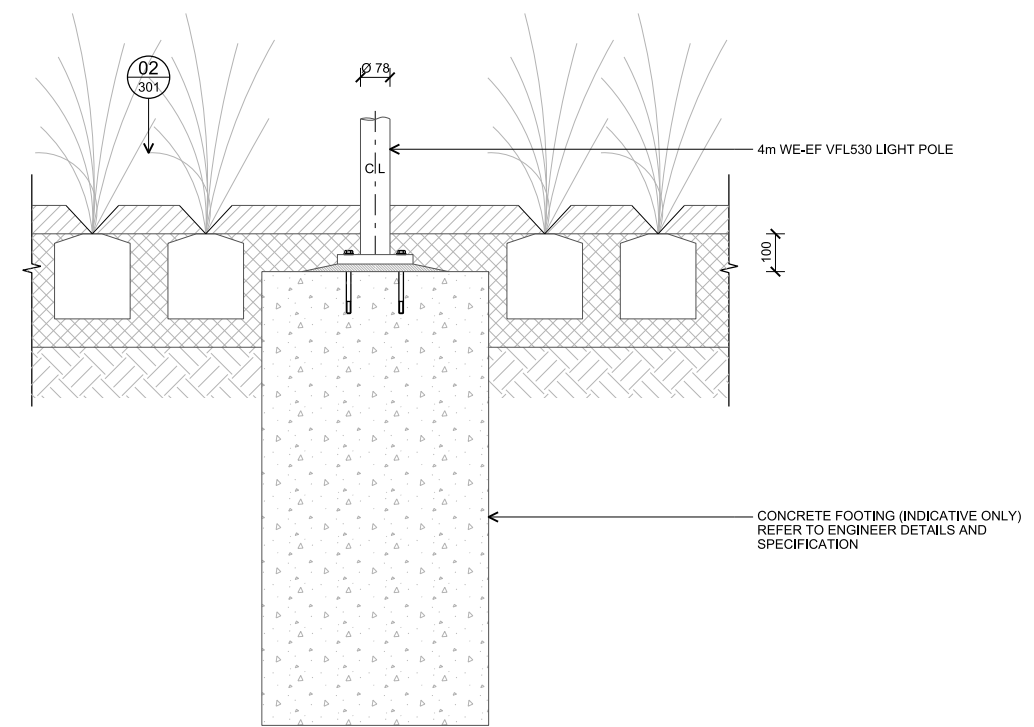
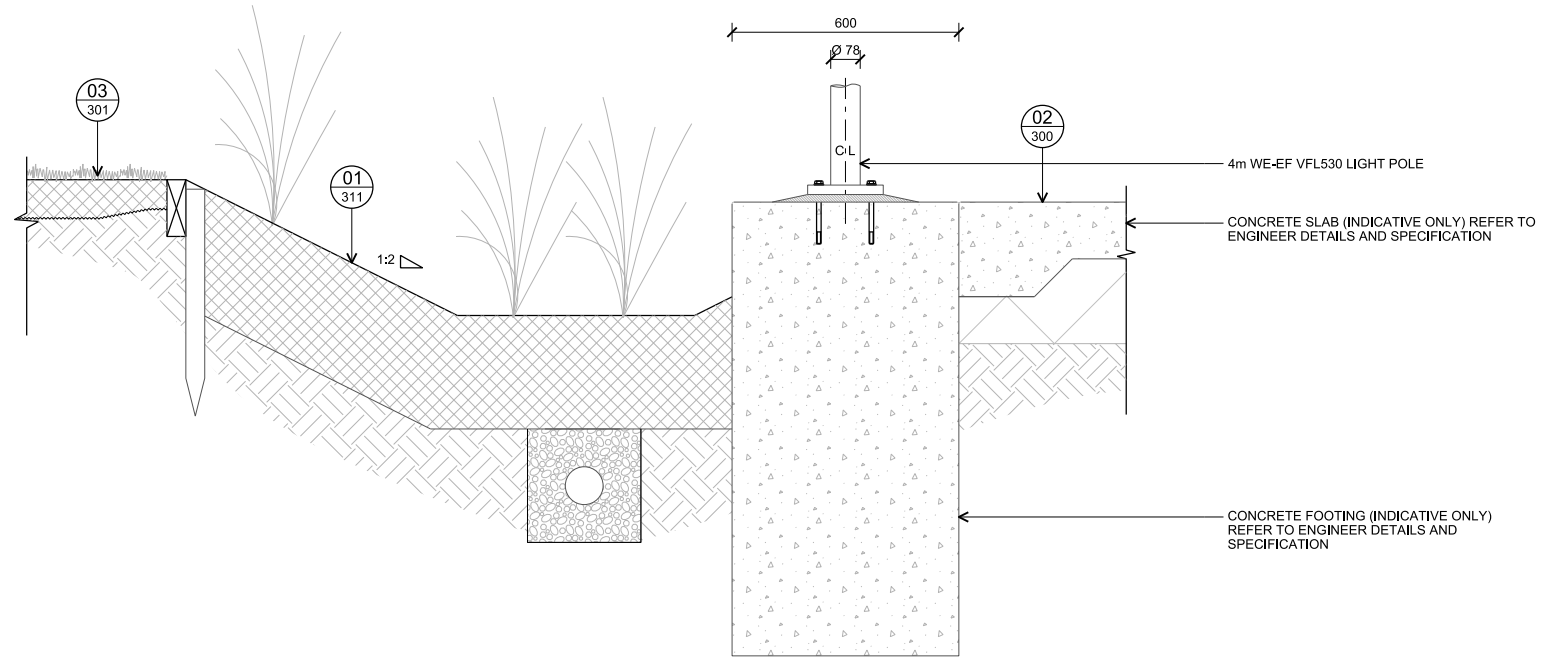
Kāinga Tuatahi

Swales

Design	JBr	Scale	Date
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Check	YTa	1:20 @ A3	
Appv'd	JBr	Copyright © Boffa Miskell Limited 2014	

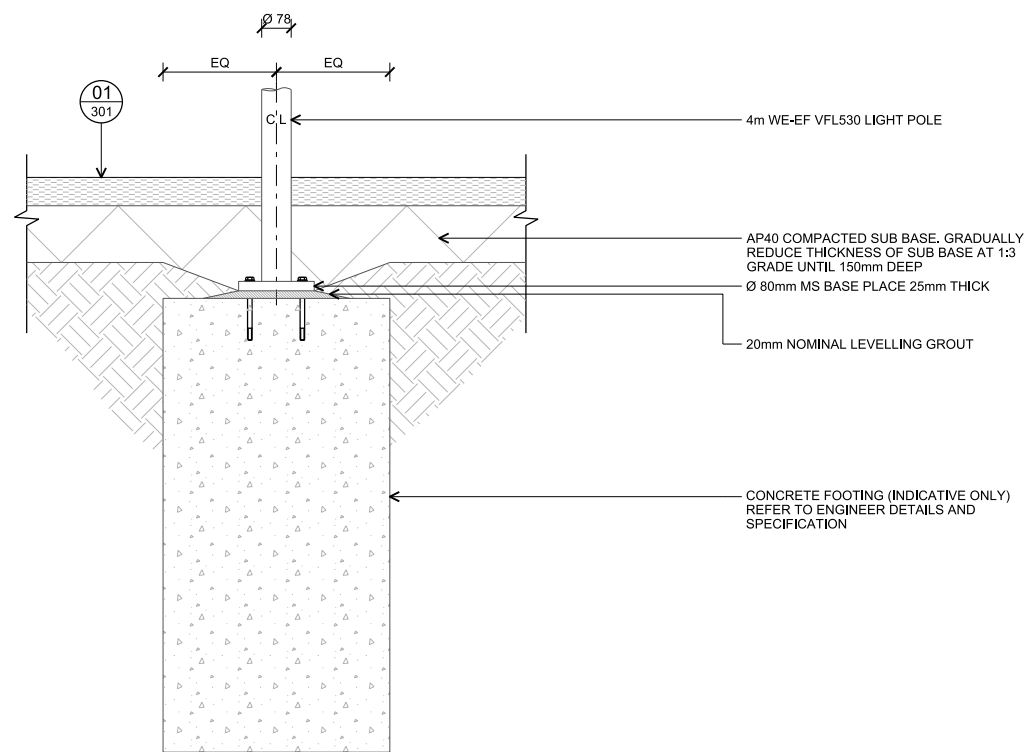
DRAWING NO. **A14171_311** REVISION **(A)**

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01 DETAIL - LIGHT FOOTING IN SWALE
1:10 @ A1; 1:20 @ A3

01 DETAIL - LIGHT FOOTING IN PLANTING BED
1:10 @ A1; 1:20 @ A3



01 DETAIL - LIGHT FOOTING IN AGGROK
1:10 @ A1; 1:20 @ A3

NOTES

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REV	DATE	DESCRIPTION
-	24.10.14	DETAILED DESIGN
A	03.11.14	TENDER ISSUE

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Lights

Design	JBr	Scale	Date
Drawn	KDo	1:10 @ A1	01.09.2014
Check	YTa	1:20 @ A3	
Appv'd	JBr	Copyright © Boffa Miskell Limited 2014	

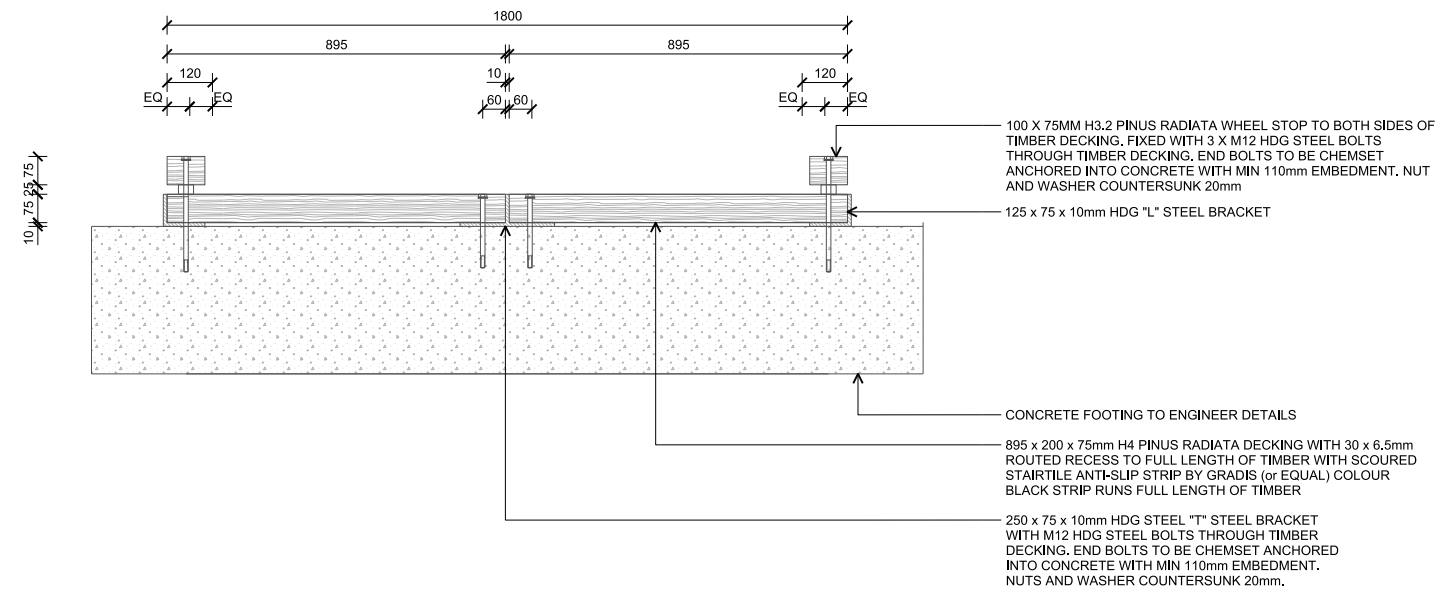
DRAWING NO. REVISION

A14171_312

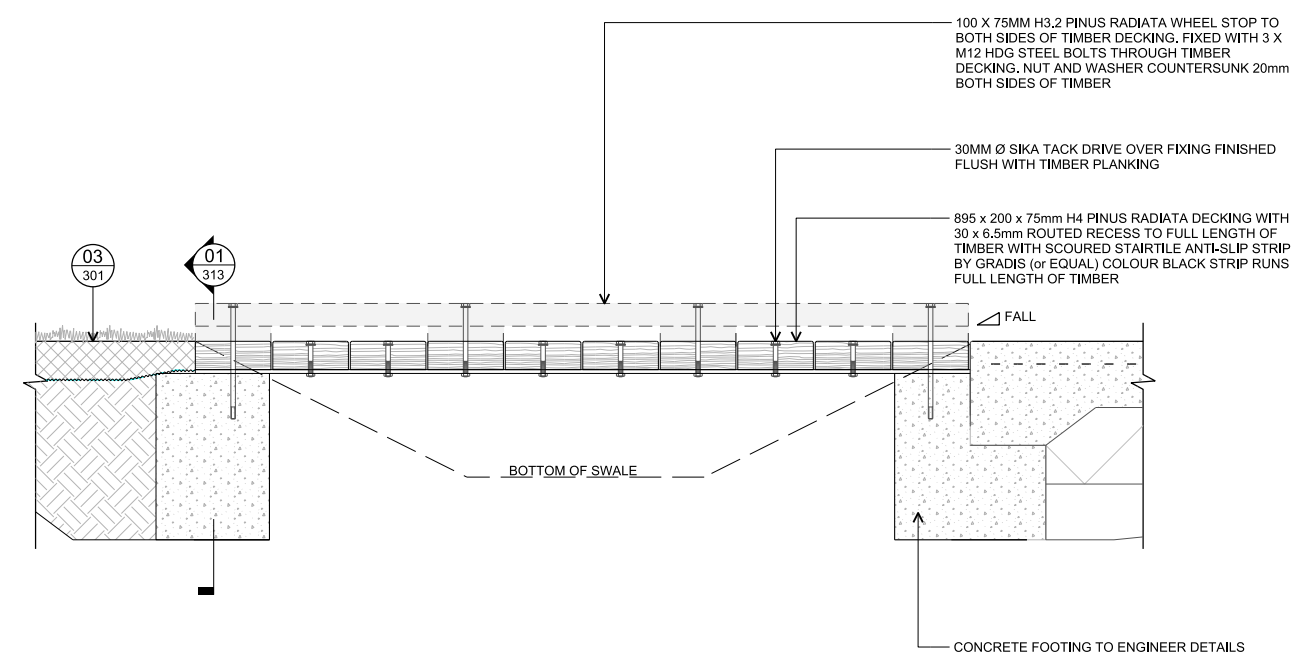
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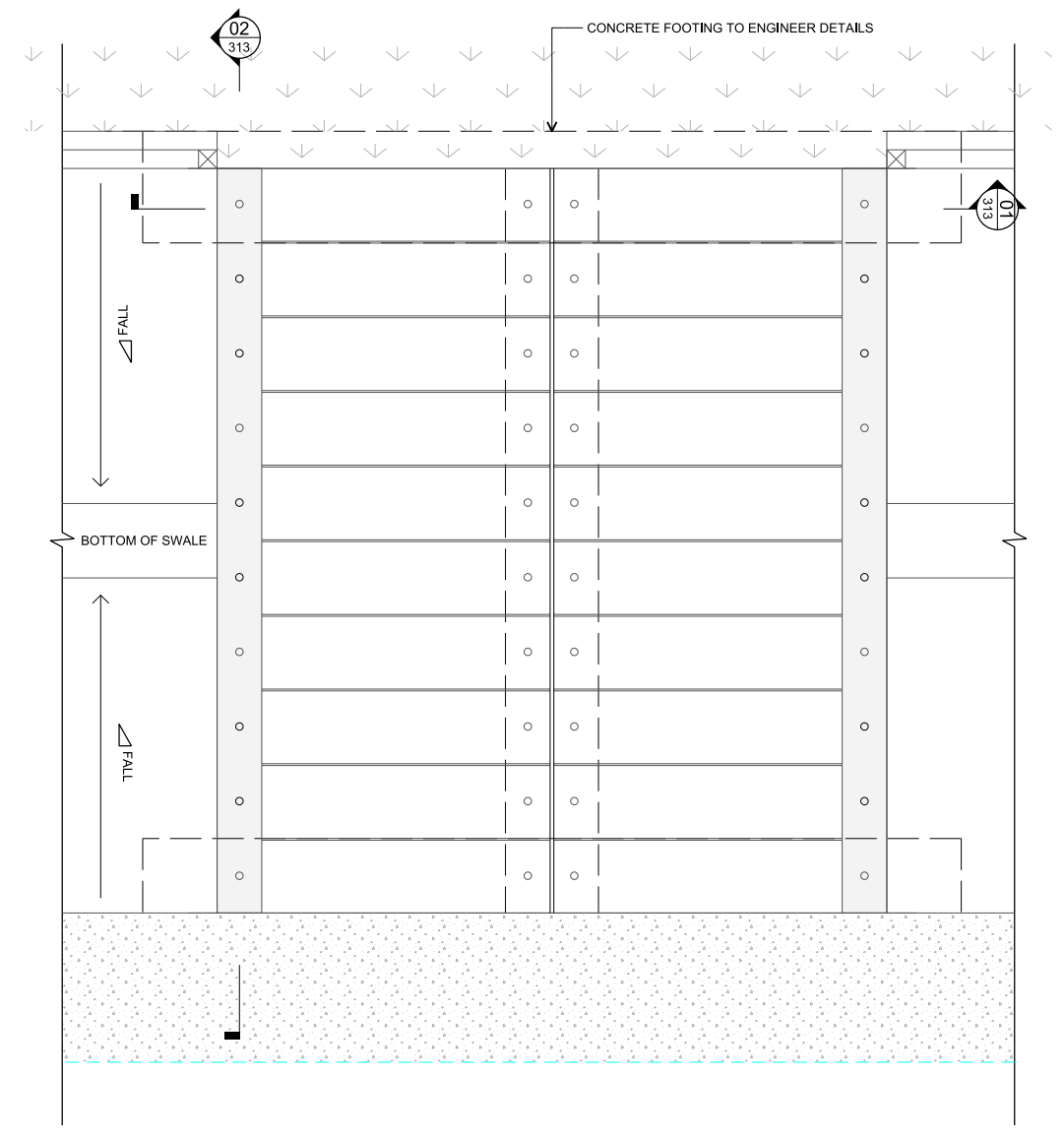
TENDER



01 SECTION [ST01] - TIMBER DECKING OVER SWALE
1:10 @ A1; 1:20 @ A3

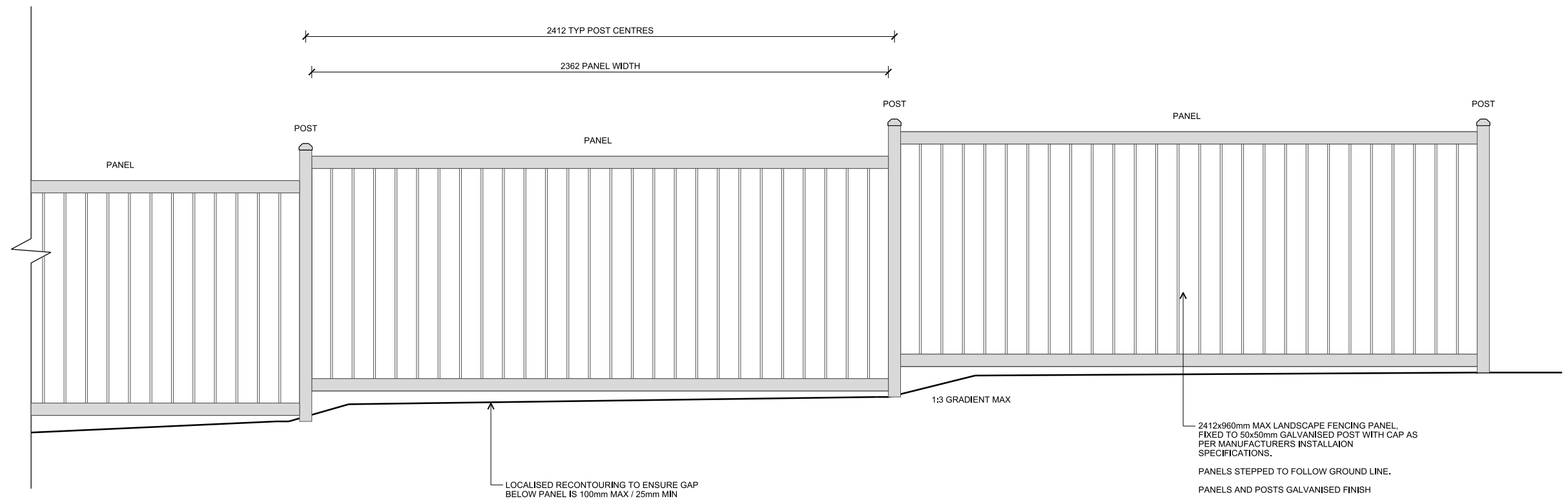


02 SECTION [ST01] - TIMBER DECKING OVER SWALE
1:10 @ A1; 1:20 @ A3

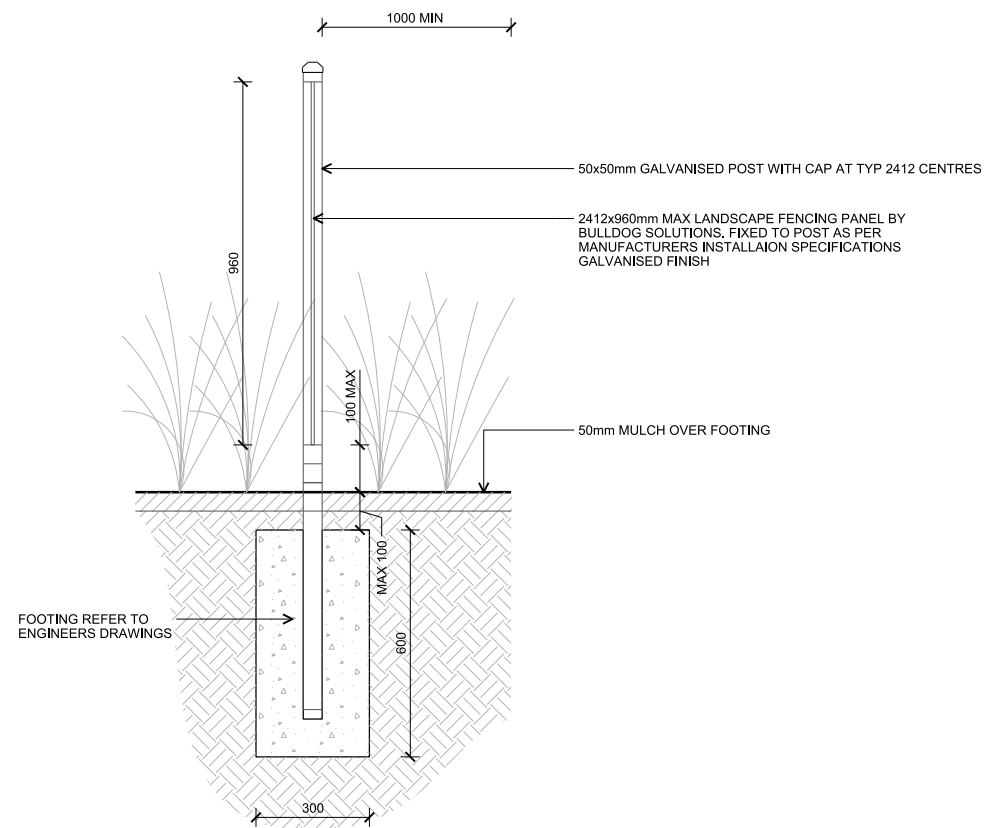


03 PLAN [ST01] - TIMBER DECKING OVER SWALE
1:10 @ A1; 1:20 @ A3

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01 MAX LANDSCAPE FENCE [ST08] - TYPICAL ELEVATION
1:10 @ A1; 1:20 @ A3



02 MAX LANDSCAPE FENCE [ST08] - TYPICAL SECTION
1:10 @ A1; 1:20 @ A3

NOTES
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-	24.10.14	DETAILED DESIGN
A	03.11.14	TENDER ISSUE

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Fences

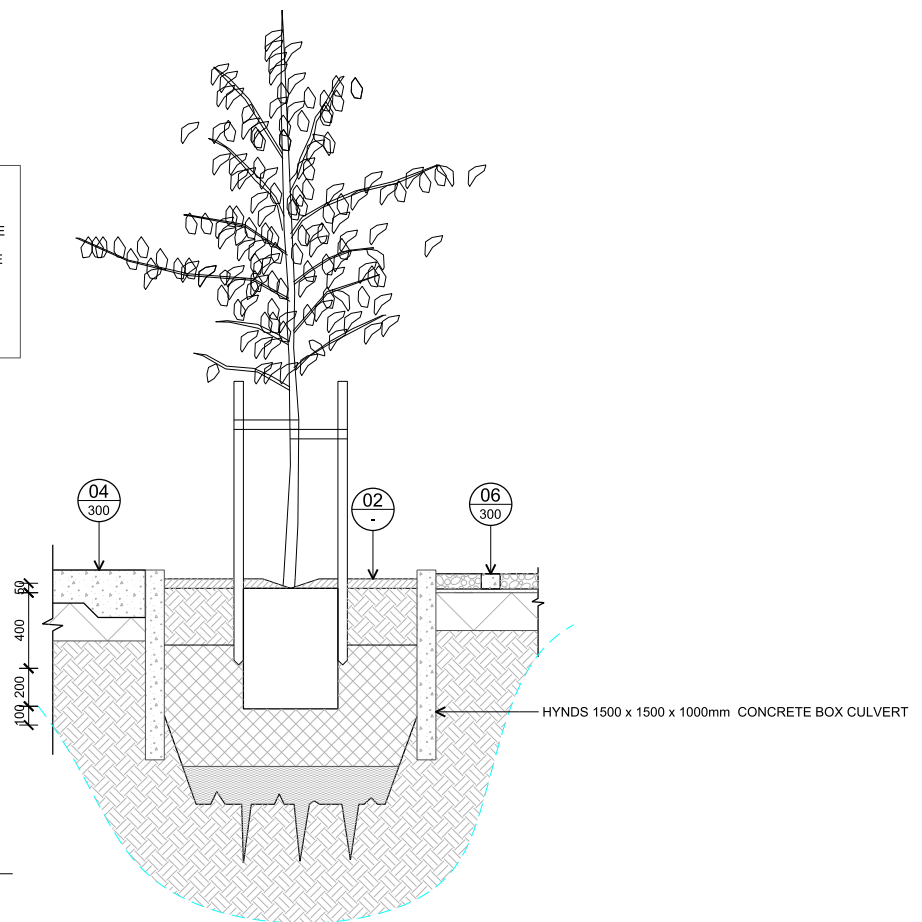
TENDER

Design	JBr	Scale	Date
Drawn	KDo	1:10 @ A1	01.09.2014
Check	YTa	1:20 @ A3	
Appv'd	JBr	Copyright © Boffa Miskell Limited 2014	

DRAWING NO. **A14171_314** REVISION **(A)**

TOP SOIL LAYER TO BE MIXED AND SUPPLIED BY CIVIL CONTRACTOR BUT TRANSPORTED FROM LOCAL STOCKPILE AND BACKFILLED BY PLANTING CONTRACTOR. MATERIAL SHALL NOT BE COMPACTED.

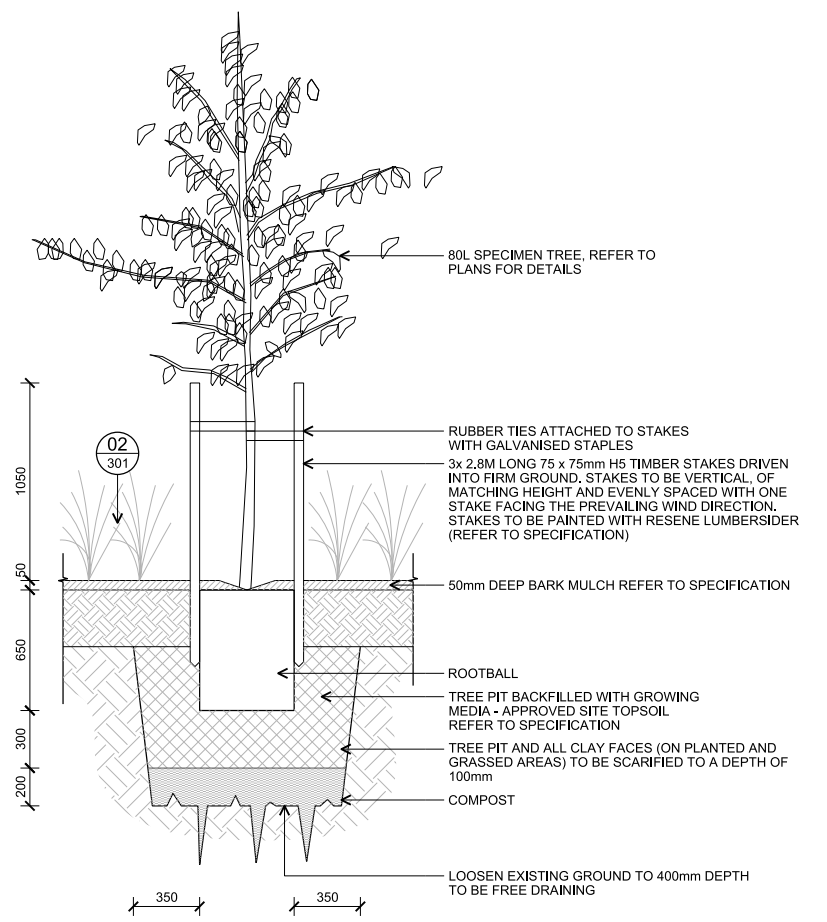
ENSURE PIT IS FREE DRAINING THROUGH HOSE TESTING



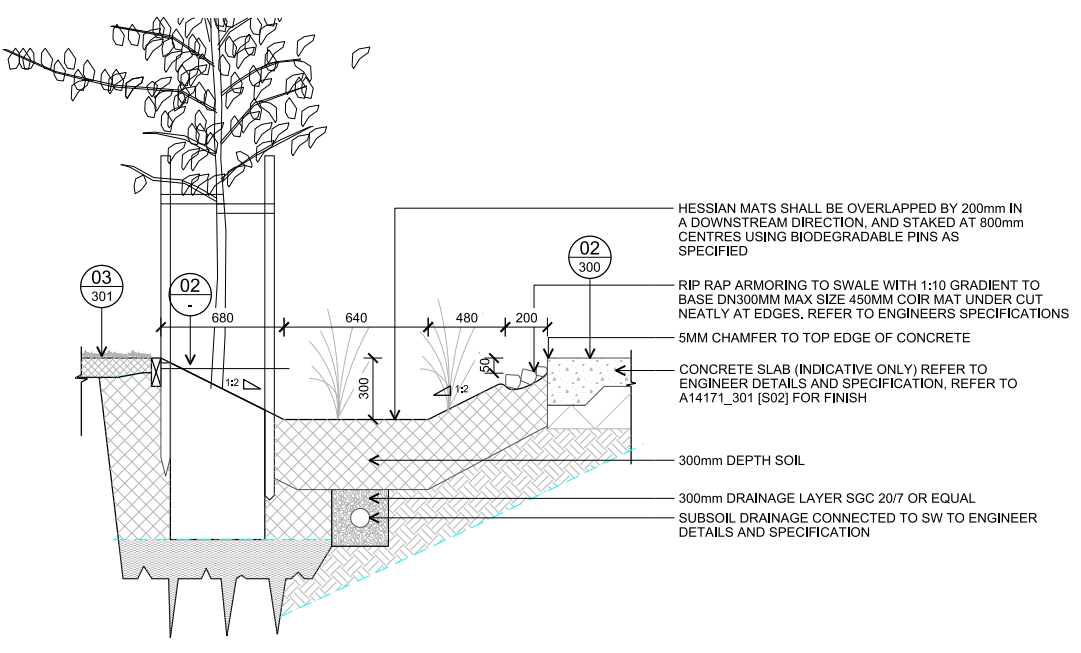
01 DETAIL [ST23] - ACCESS WAY TREEPIT
1:20 @ A1; 1:40 @ A3

TOP SOIL LAYER TO BE MIXED AND SUPPLIED BY CIVIL CONTRACTOR BUT TRANSPORTED FROM LOCAL STOCKPILE AND BACKFILLED BY PLANTING CONTRACTOR. MATERIAL SHALL NOT BE COMPACTED.

ENSURE PIT IS FREE DRAINING THROUGH HOSE TESTING



02 DETAIL [T01] - TREEPIT IN PLANTING/GRASS
1:20 @ A1; 1:40 @ A3



03 SECTION -TYPICAL TREE/SWALE SECTION [T01 & T04]
1:20 @ A1; 1:40 @ A3

NOTES
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REV	DATE	DESCRIPTION
-	24.10.14	DETAILED DESIGN
A	03.11.14	TENDER ISSUE

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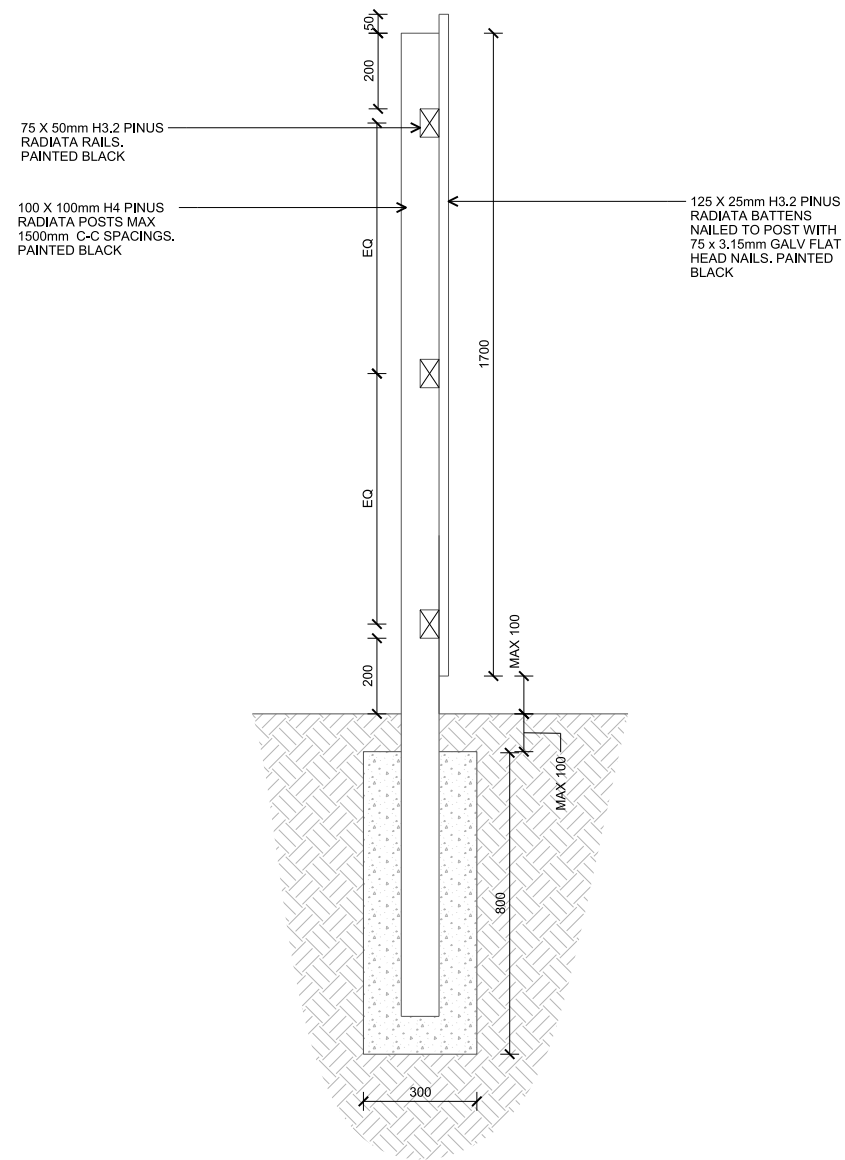
TENDER

Kāinga Tuatahi

Tree Details

Design	JBr	Scale	Date
Drawn	KDo	1:20 @ A1	01.09.2014
Check	YTa	1:40 @ A3	
Appv'd	JBr	Copyright © Boffa Miskell Limited 2014	

DRAWING NO. **A14171_315** REVISION **(A)**



01 SECTION [ST09] - PERIMETER FENCE
 1:10 @ A1; 1:20 @ A3

NOTES

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REV	DATE	DESCRIPTION
-	24.10.14	DETAILED DESIGN
A	03.11.14	TENDER ISSUE

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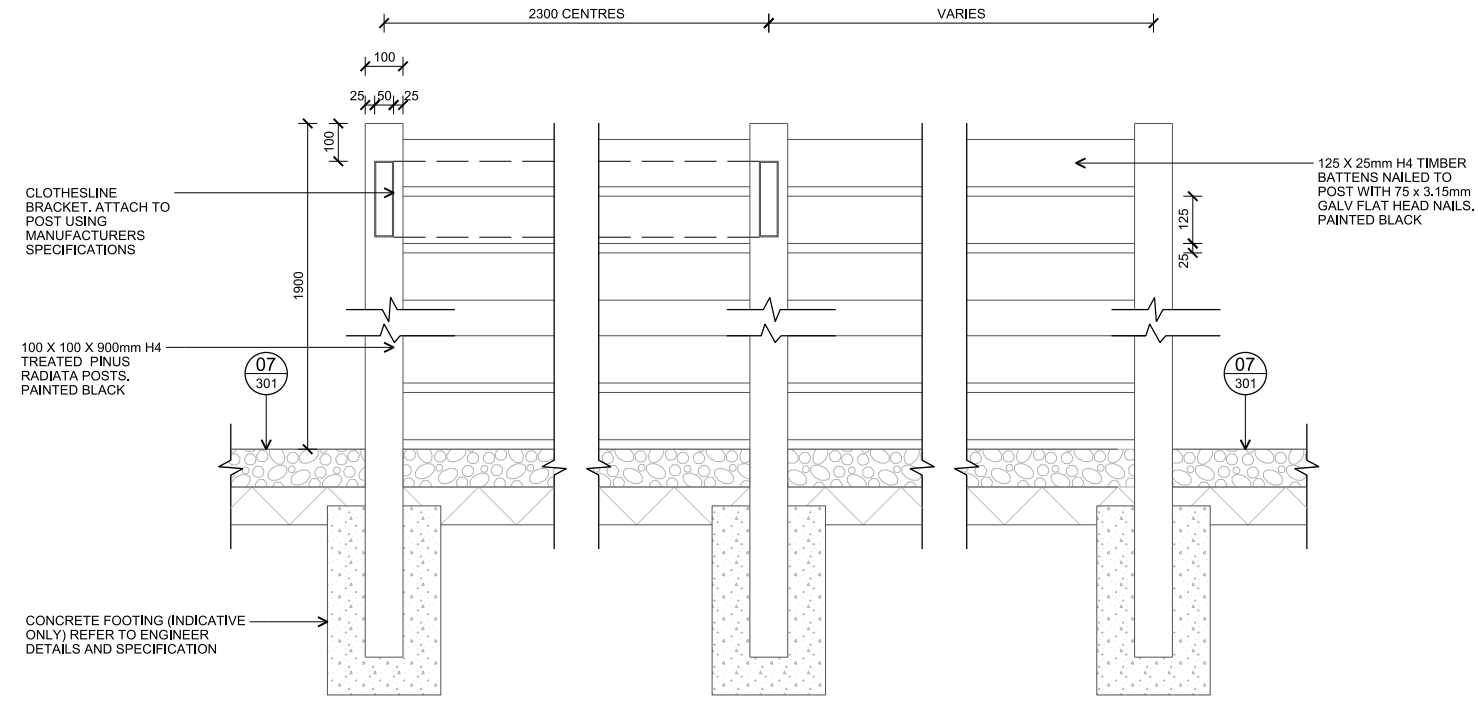
Kāinga Tuatahi

Fence detail

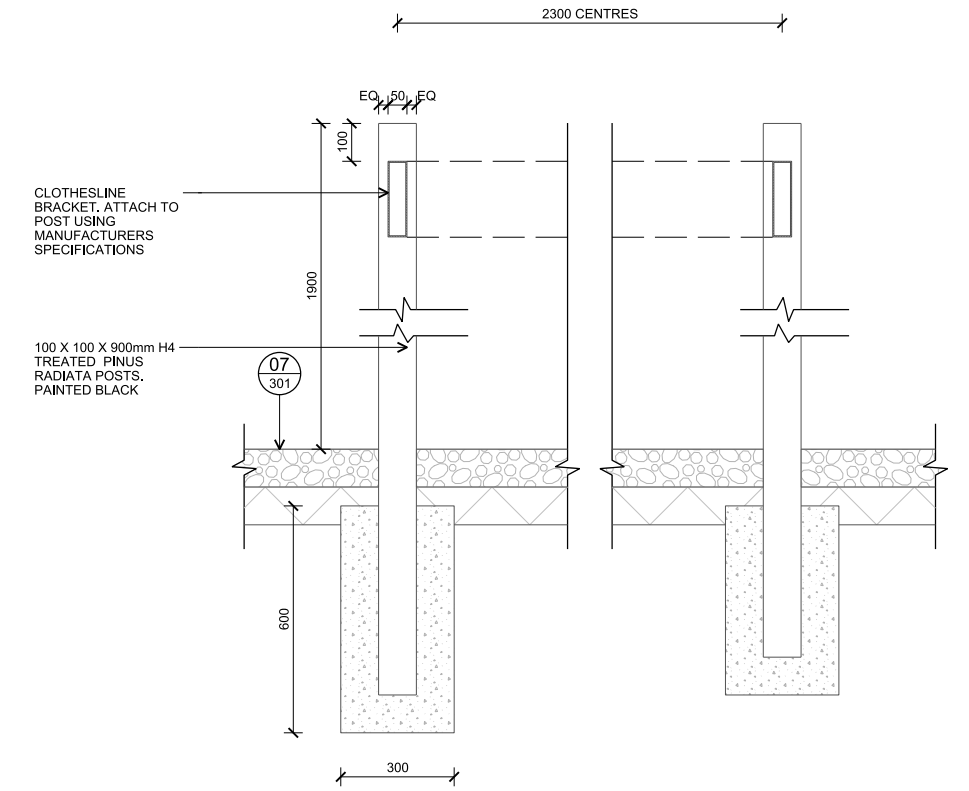
Design	JBr	Scale	Date
Drawn	KDo	1:10 @ A1	01.09.2014
Check	YTa	1:20 @ A3	
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DRAWING NO. **A14171_316** REVISION **(A)**

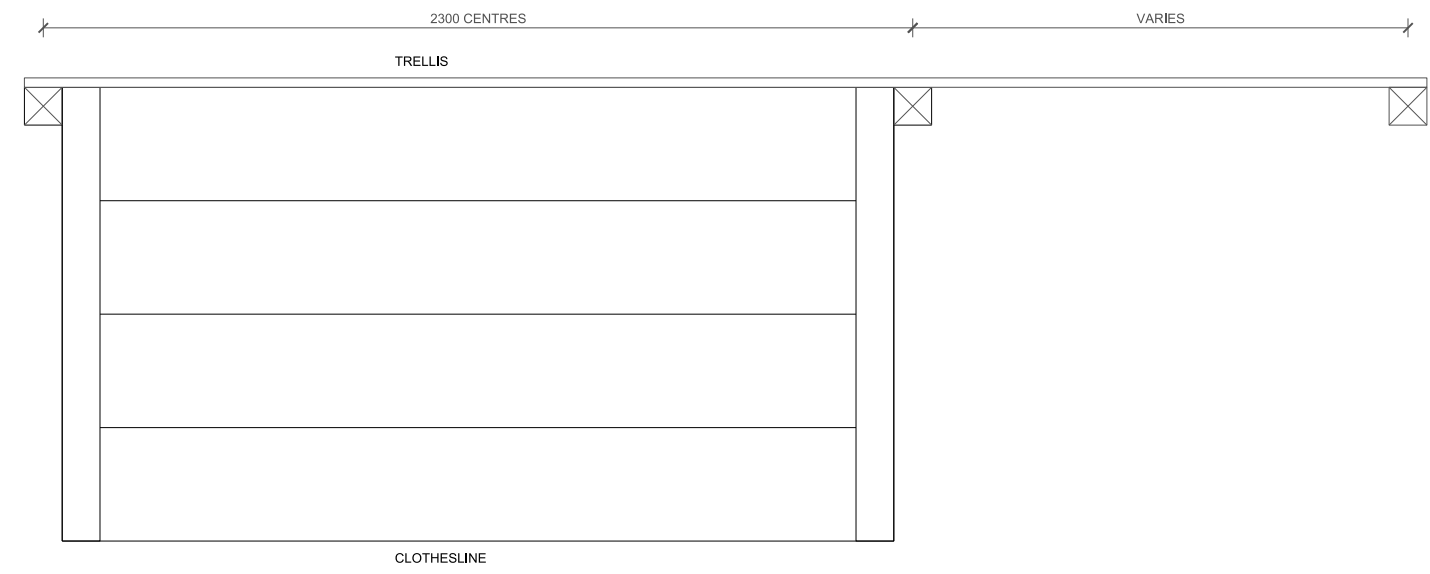
TENDER



01 DETAIL [ST21] - COTHESLINE / TRELLIS
 - 1:10 @ A1; 1:20 @ A3



02 DETAIL [ST11] - COTHESLINE
 - 1:10 @ A1; 1:20 @ A3



03 PLAN [ST21] - COTHESLINE / TRELLIS
 - 1:10 @ A1; 1:20 @ A3

NOTES
 CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;
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REV	DATE	DESCRIPTION
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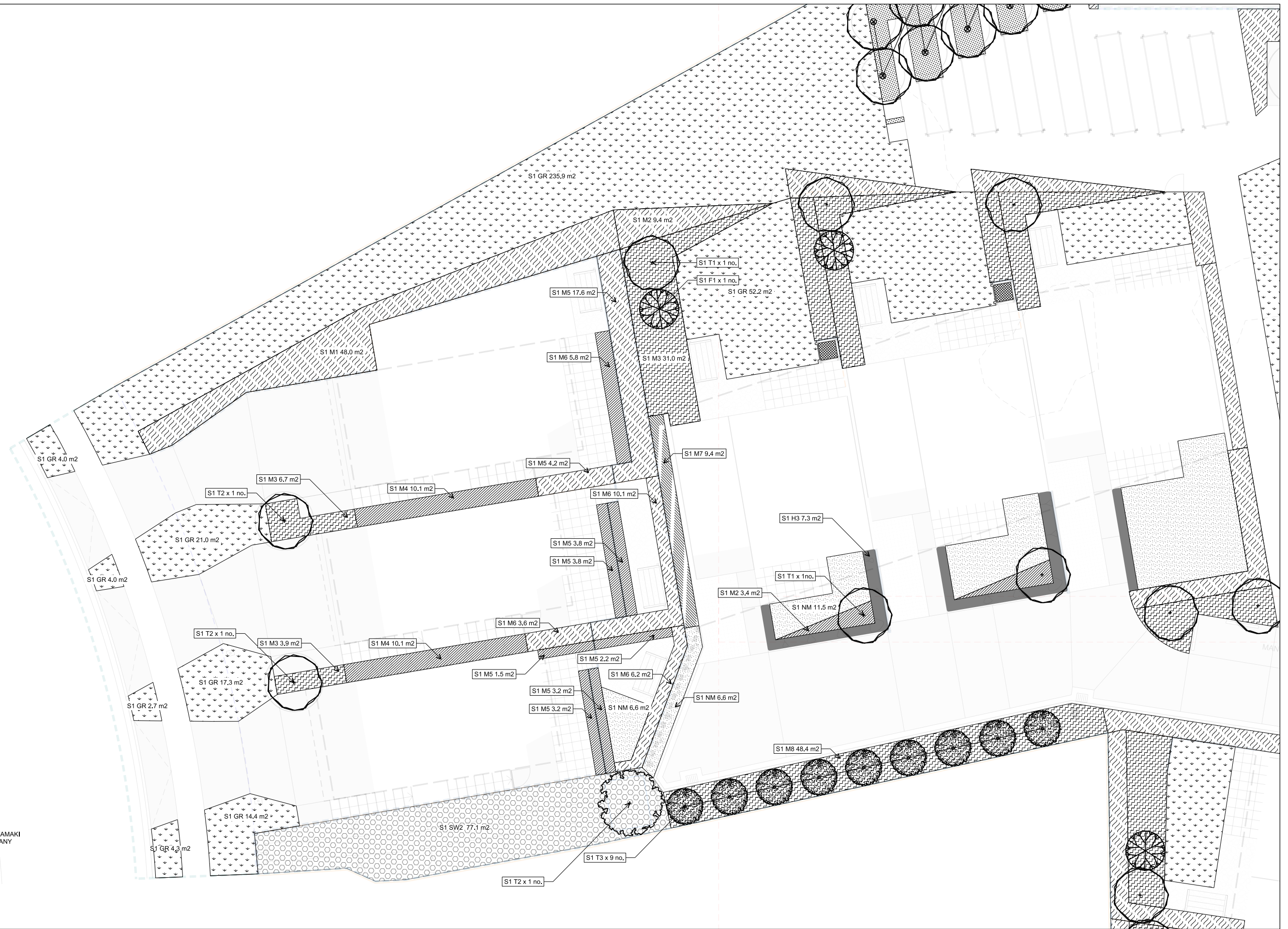
Clothesline Detail

Design	JBr	Scale	1:10 @ A1	Date	01.09.2014
Drawn	KDo	Check	YTa	1:20 @ A3	
Appv'd	JBr	Copyright © Boffa Miskell Limited 2014			

DRAWING NO. **A14171_318** REVISION **(A)**

KEY	BOTANICAL NAME	COMMON NAME	GRADE (L)	CENTRES (m) C-C	PLANT %	PLANT NO.	PLANTING LOCATION
Note: All species to be eco-sourced from the Tamaki Ecological Area (except fruit trees and any other exotic edible species); Plants to be supplied by Others; Plants to be installed by Contractor; All planting areas (except grassed and no-now lawns) to be mulched as per specification.							
GARDEN MIXES							
M1	MIX 1						
Area (M2)	111.8						
	<i>Lobelia angulata</i>	Panakenake	1.5	0.5	20%	89	FRONT
	<i>Hebe stricta var. stricta</i>	Koromiko	1.5	0.8	40%	69	MIDDLE
	<i>Astelia banksii</i>	Kowharawhara	1.5	1	40%	44	BACK
M2	MIX 2						
Area (M2)	103.3						
	<i>Libertia grandifolia</i>	NZ iris	1.5	0.4	20%	129	FRONT
	<i>Muehlenbeckia axillaris</i>	Kohuehue	1.5	1	40%	41	MIDDLE
	<i>Pittosporum cornifolium</i>	Tawhirikaro	1.5	2	40%	10	BACK
M3	MIX 3						
B	153.6						
	<i>Corokia cotoneaster</i>	Korokio	1.5	1	20%	30	BACK
	<i>Coprosma repens prostrata</i>	Coprosma repens prostrate form	1.5	0.8	40%	96	FRONT
	<i>Phormium cookianum</i>	Whariki	1.5	0.6	40%	170	MIDDLE
M4	MIX 4						
Area (M2)	47.8						
	<i>Dianella nigra</i>	Turutu	1.5	0.6	40%	53	MIDDLE
	<i>Fuchsia procumbens</i>	creeping fuschia	1.5	0.4	20%	59	FRONT
	<i>Lophomyrtus bullata</i>	Ramarama	1.5	1	40%	19	BACK
M5	MIX 5						
Area (M2)	45.5						
	<i>Arthropodium cirratum</i>	Rengarenga	1.5	0.5	40%	72	MIDDLE
	<i>Corokia buddleioides</i>	Korokio	1.5	0.8	40%	28	BACK
	<i>Fuchsia procumbens</i>	creeping fuschia	1.5	0.4	20%	56	FRONT
M6	MIX 6						
Area (M2)	31.4						
	<i>Libertia grandifolia</i>	NZ iris	1.5	0.5	40%	50	MIDDLE
	<i>Selliera radicans</i>	Remuremu	1.5	0.25	20%	100	FRONT
	<i>Hebe macrocarpa var. macrocarpa</i>	koromiko	1.5	0.8	40%	19	BACK
M7	MIX 7						
Area (M2)	202.2						
	<i>Arthropodium cirratum</i>	Rengarenga	1.5	0.5	40%	323	MIDDLE
	<i>Fuchsia procumbens</i>	creeping fuschia	1.5	0.25	20%	647	FRONT
	<i>Griselinia littoralis</i>	Kapuka	1.5	0.8	40%	126	BACK
M8	MIX 8						
Area (M2)	394.8						
	<i>Coprosma propinqua</i>	Mingimingi	1.5	1	33%	130	FRONT
	<i>Muehlenbeckia astonii</i>	Shrubby tororaro	1.5	1	33%	130	BACK
	<i>Phormium cookianum</i>	Whariki	1.5	0.6	33%	361	MIDDLE
M9	MIX 9						
Area (M2)	123.8						
	<i>Fuchsia procumbens</i>	creeping fuschia	1.5	0.4	20%	154	FRONT
	<i>Clianthus puniceus</i>	kowhai ngutukaka	1.5	0.4	30%	232	MIDDLE
	<i>Asplenium bulbiferum</i>	Hen and chicken fern	1.5	0.6	50%	171	MIDDLE
						SUBTOTAL	3408
FRUIT TREES							
F1	Citrus x meyeri	Meyer lemon	15			6	Courtyard Garden
F1	Citrus 'Tahitian lime'	lime	15			6	Courtyard Garden
F1	Laurus nobilis	Bay Tree	15			6	Courtyard Garden
F2	Feijoa sellowiana 'Apollo'	fejjoa	15			3	Orchard Garden - Mix Species
F2	Malus 'Splendour'	apple	15			3	Orchard Garden - Mix Species
F2	Mandarin Miya Gawa	Satsuma mandarin	15			3	Orchard Garden - Mix Species
F2	Persea 'Hass'	avocado	15			2	Orchard Garden - Mix Species
F2	Prunus 'Billington' or 'Black Doris'	self-fertilising plums	15			3	Orchard Garden - Mix Species
F2	Pyrus 'Winter Nelis' and 'Williams'	pear varieties	15			3	Orchard Garden - Mix Species
						SUBTOTAL	35
CLIMBERS							
C1	Climber 1						
Area (M2)	61						
	<i>Parsonsia heterophylla</i>	Kaihua	5	0.8		61	Plant in single row at base of refuse area screening and train to grow up supporting structure
C2	Climber 2						
Area (M2)	15						
	<i>Clematis paniculata</i>	Puawanga	5	0.8		15	Plant in single row at base of portico wall and train to grow up supporting structure

KEY	BOTANICAL NAME	COMMON NAME	GRADE (L)	CENTRES (m) C-C	PLANT %	PLANT NO.	PLANTING LOCATION
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SWALES, OVERLAND FLOW PATHS & RAINGARDENS							
SW1	Stormwater Mix 1 (Swale)						
Area (M2)	179.7						Plant each species in groups of 13 or 15 (except Cordyline)
	<i>Apodasmia similis</i>	oi oi	1.5	0.6	30%	149	
	<i>Carex lessoniana</i>	rautahi	1.5	0.6	30%	149	
	<i>Cordyline australis</i>	ti kouka	10	0.6	10%	45	Plant in groups of 3 around nika
	<i>Machaerina articulata</i>	jointed twig rush	1.5	0.6	30%	149	
SW2	Stormwater Mix 2 (Overland Flow Path)						
Area (M2)	168.4						Plant each species in groups of 13 or 15
	<i>Austroderia fulvida</i>	toetoe	1.5	0.6	40%	187	
	<i>Carex lessoniana</i>	rautahi	1.5	0.6	40%	187	
	<i>Cyperus ustulatus</i>	ūpoko tangata	1.5	0.6	20%	93	
						SUBTOTAL	959
GROUND COVER							
GC1	Groundcover 1						
Area (M2)	2						
	<i>Fuchsia procumbens</i>	creeping fuschia	1.5	0.4	100%	12	
GC2	Groundcover 2						
Area (M2)	30.1						
	<i>Libertia grandifolia</i>	NZ iris	1.5	0.5	100%	120	
GC3	Groundcover 3						
Area (M2)	1.8						
	<i>Lobelia angulata</i>	Panakenake	1.5	0.5	100%	8	Plant 4 per garden bed
GC4	Groundcover 4						
Area (M2)	28.8						
	<i>Phormium tenax</i>	harakeke	1.5	2	100%	11	Plant along perimeter of fence
GR	Grass lawn						
Area (M2)	1158.8						
	sown grass - refer to GA Plans						
NM	No-Mow Lawn						
Area (M2)	299						
	<i>Dichondra repens</i>	Mercury Bay Weed	1.5	0.5	100%	1196	
						SUBTOTAL	1328
HEDGES							
H1	<i>Corokia cotoneaster</i>	Korokio	15	1		31	Plant in single row
H2	<i>Corokia buddleioides</i>	Korokio Taranga	15	1		37	Plant in single row
H3	<i>Griselinia littoralis</i>	Kapuka	15	1		30	Plant in single row
H4	<i>Pittosporum cornifolium</i>	Tawhirikaro	15	1		22	Plant in single row
						SUBTOTAL	120
SPECIMEN TREES							
T1	<i>Sophora chathamica</i>	kowhai	45			6	
T2	<i>Plagianthus regius</i>	manatu	45			9	
T3 (MIX)	<i>Carmichaelia australis</i>	tai noka	25			5	Boundary Screening - Mix species
	<i>Carpodetus serratus</i>	puta puta weta	25			5	Boundary Screening - Mix species
	<i>Leionema nudum</i>	mairehau	25			5	Boundary Screening - Mix species
	<i>Myrsine australis</i>	mapou	25			4	Boundary Screening - Mix species
	<i>Planchonella costata</i>	tawapou	25			5	Boundary Screening - Mix species
T4	<i>Rhopalostylis sapida</i>	nikau	95			15	Stormwater swale
T5	deleted	deleted				deleted	
T6	<i>Vitex lucens</i>	pūriri	95			4	
T8	<i>Dicksonia squarrosa</i>	kuripaka	25			7	
T7	<i>Cordyline australis</i>	ti kouka	25			7	
						SUBTOTAL	72



PLANTING NOTES:
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 PLANTS TO BE SUPPLIED BY OTHERS;
 PLANTS TO BE INSTALLED BY CONTRACTOR;
 ALL PLANTING AREAS (EXCEPT GRASSED AND NO-NOW LAWNS) TO BE MULCHED AS PER SPECIFICATION.

NOTES
 CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;
 CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;
 FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

REV	DATE	DESCRIPTION
-	24.10.14	DETAIL DESIGN 95%
A	03.11.14	TENDER ISSUE



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 Ngāti Whātua Ōrākei

CONSULTANTS
 Stevens Lawson Architects
 R2O Consultants
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 Sullivan Hall

TENDER

Kāinga Tuatahi

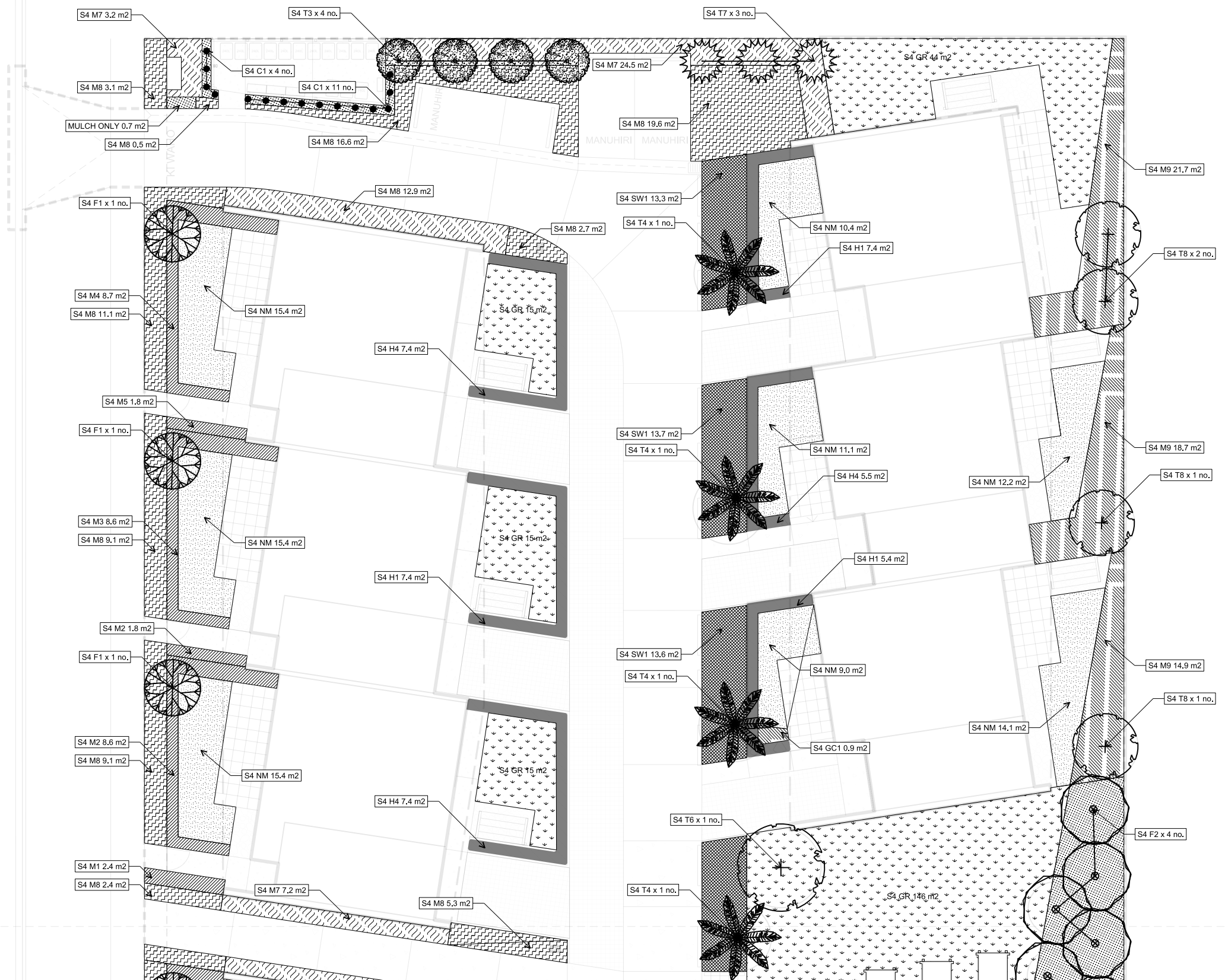
Planting Plan
 Sheet 1 of 5

Design	JBr	Scale	Date
Drawn	HDo	1:100 @ A1	24.10.2014
Check	YTa	1:200 @ A3	
Appv'd	JBr	Copyright © Boffa Miskell Limited 2014	

DRAWING NO. REVISION

A14171_501

(A)



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REV	DATE	DESCRIPTION
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A	03.11.14	TENDER ISSUE



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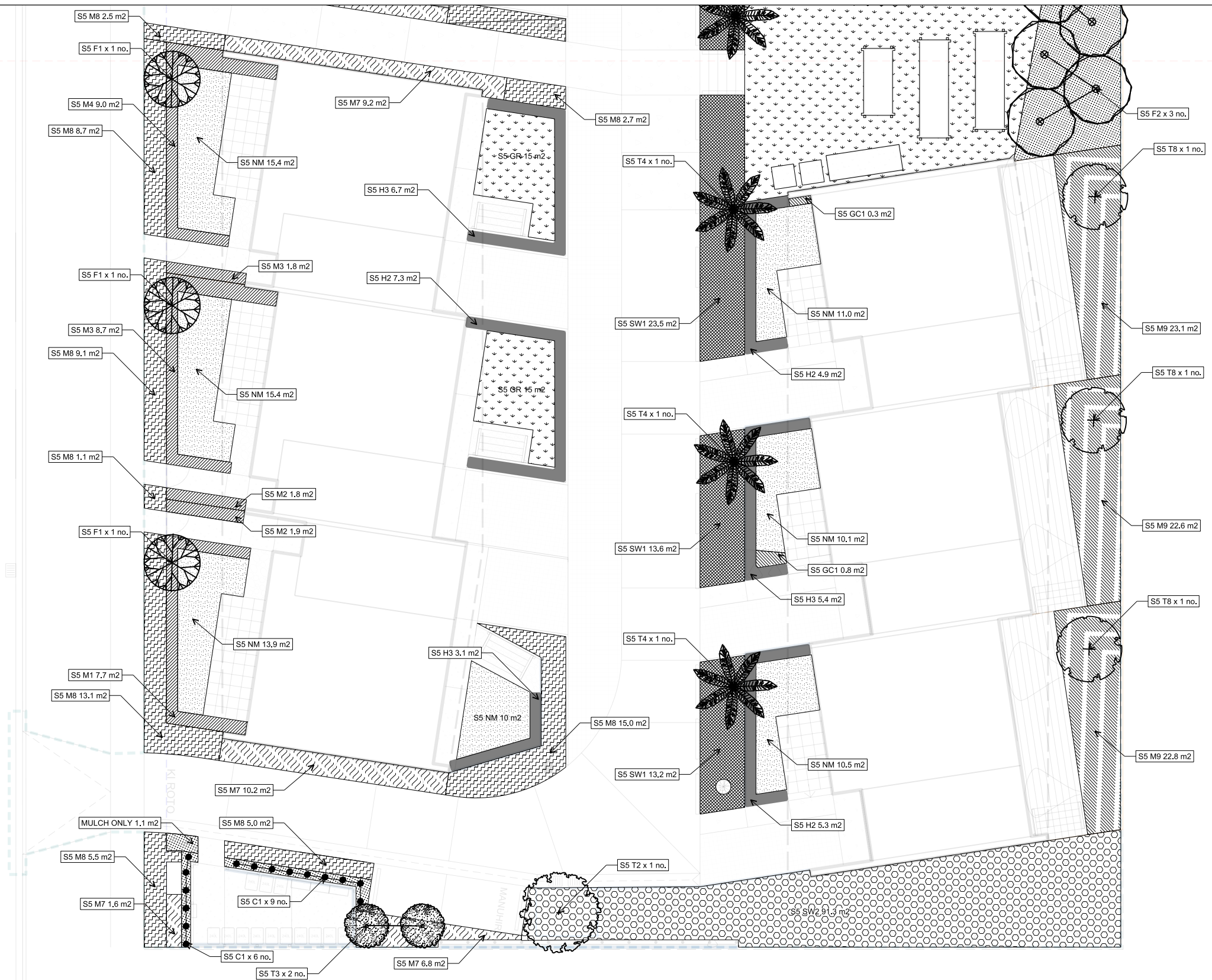
TENDER

Kāinga Tuatahi

Planting Plan
 Sheet 4 of 5

Design	JBr	Scale	1:100 @ A1	Date	24.10.2014
Drawn	HDo	Check	1:200 @ A3		
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NOTES
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 FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

REV	DATE	DESCRIPTION
-	24.10.14	DETAIL DESIGN 95%
A	03.11.14	TENDER ISSUE



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Planting Plan
 Sheet 5 of 5

Design	Scale	Date
JBr	1:100 @ A1	24.10.2014
Drawn	1:200 @ A3	
Check	YTa	
Appv'd	JBr	Copyright © Boffa Miskell Limited 2014

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