

TSA Management Pty Limited ABN 71 099 000 272 Level 15, 207 Kent Street Sydney NSW 2000 +61 2 9276 1400 hello@tsamgt.com www.tsamgt.com

26 October 2021

Planning Secretary NSW Department of Planning, Industry and Environment 320 Pitt Street, Sydney NSW 2000

Dear Planning Secretary,

Subject: Santa Sophia Catholic College (SSD 9772) - Roadworks, Access, and car parking provisions - E16

I refer to the Santa Sophia Catholic College project (SSD 9772) that was approved on 21st April 2020.

In accordance with condition E16 of the Development Consent, the attached information has been submitted for the information of the planning secretary.

While the attached has been submitted in response to advice from DPIE, please advise should any additional information be required.

Kind Regards,

Isaac Conway

Project Manager



Level 15, 207 Kent Street, Sydney, NSW 2000 M: +61 401 526 236

isaac.conway@tsamgt.com

William Tseng

From: Ryan Baitz < Ryan.Baitz@stockland.com.au>

Sent: Monday, 25 October 2021 4:57 PM

To: William Tseng
Cc: Kenny Lim

Subject: RE: Santa Sophia - Roadworks Evidence of Completion/Approvals

Attachments: 20211025_Gables TC Roads A&B Signs and Linemarking.pdf; 20211025_Gables TC

Roads A&B School Driveways.pdf; 20211025_Gables TC Roads A&B Letter.pdf

Hi Will,

Please see attached the below items:

- Letter from WEM confirming the installation of the signage and line marking as per the approved LTC plan
- Letter from WEM confirming the completion of the Santa Sophia driveways as per the approved CC
- Letter from WEM confirming the completion of Roads A & B as per the approved CC

I can confirm that Roads A & B are operational, and will be open to the public prior to the opening of Santa Sophia.

Cheers,

Ryan Baitz

Development Manager | Residential Stockland, Level 26, 133 Castlereagh Street, Sydney NSW 2000

E: ryan.baitz@stockland.com.au

T: 02 9035 2138 **M:** 04 3742 6157

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

From: William Tseng [mailto:William.Tseng@tsamgt.com]

Sent: Friday, 22 October 2021 3:27 PM

To: Ryan Baitz < Ryan.Baitz@stockland.com.au> **Cc:** Kenny Lim < Kenny.Lim@tsamgt.com>

Subject: RE: Santa Sophia - Roadworks Evidence of Completion/Approvals

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Hi Ryan,

We have received clarification from the Planning Secretary with regards to what they are seeking to satisfy condition E16.

William Tseng

Subject:

FW: SSD9772 - Compliance Enquiry - E16 - Roadworks, access and car parking provisions [TSA-P.NSW.C1363]

From: Sidonie Crepeau <Sidonie.Crepeau@planning.nsw.gov.au>

Sent: Friday, 22 October 2021 2:10 PM

To: Isaac Conway < lsaac.Conway@tsamgt.com>

Subject: RE: SSD9772 - Compliance Enquiry - E16 - Roadworks, access and car parking provisions [TSA-P.NSW.C1363]

Hi Isaac,

Thank you for your email.

Re condition E16 of the consent (SSD 9772) and based on your description of proposed response below, I am of the view that:

- Subdivision certificates and Letter from Stocklands/consultant are adequate for items (a) and (b).
- Letters from the builders are adequate for items (c) and (e).

To ensure that all items are covered, please also include the documentation for item (d) that relates to the Temporary carpark.

Regarding item (f): the necessary approval from Councils and/or relevant authorities relates to MOD 1 application.

I note through the Department Assessment Report of MOD 1, that the impact of the vehicular crossing on Fontana Drive could pose a safety risk. However, this risk can be mitigated and the truck movement 'supported subject to suitable traffic control measures and the provision of suitable traffic controls via the Road Occupancy Licence (with approval via Council's Traffic Committee)'.

Also, the report details that: 'Conditions to this effect have been recommended requiring additional details in the approved Operational Traffic and Access Management Plan and a **Road Occupancy Licence** (where needed).

Additional conditions of consent have also been recommended requiring the Applicant to 'obtain separate construction certificates for the driveway crossings from Council.' Therefore, it would be required to provide the Department with the Road Occupancy Licence and the separate CC from the Council.

Please let me know if you have any further questions or require clarifications.

Have a great weekend. Warm regards, Sidonie

From: Isaac Conway < lsaac.Conway@tsamgt.com>

Sent: Thursday, 21 October 2021 9:47 AM

To: Sidonie Crepeau <Sidonie.Crepeau@planning.nsw.gov.au>; Shiraz Ahmed

<<u>Shiraz.Ahmed@planning.nsw.gov.au</u>>

Cc: William Tseng < William. Tseng@tsamgt.com >; Kenny Lim < Kenny.Lim@tsamgt.com >

Subject: SSD9772 - Compliance Enquiry - E16 - Roadworks, access and car parking provisions [TSA-P.NSW.C1363]

Good Morning Sidonie and Shiraz,

I hope that you have both been well and your lives are returning to some sort of normality with the easing of COVID restrictions ©

I am getting in touch with you both to get an understanding of the requirements to demonstrate compliance with condition E16 of SSD9772 (Santa Sophia Catholic School – Box Hill).

The below is what has been proposed to be provided to respond to the condition.

E16 Roadworks, Access and car parking provisions

Within 3 months of issue of the Occupation Certificate and prior to the attendance of students (including CELC students), the Applicant must submit information to the Planning Secretary, demonstrating that the following works have been completed and are operational:

- (a) including construction of future Fontana Drive extension on the western frontage of the site,
- (b) future Road B on the northern frontage of the site;
- (c) drop-off / pick-up zone with 12 cars on future Road B and a bus zone (for five buses) on future Fontana Drive (adjoining the site); and
- (d) temporary car park on the eastern side of the site as approved by DA 29-2020 HA;
- (e) <u>provision of the required vehicular crossings on future Fontana Drive and future</u> Road B; and
- (f) <u>evidence of necessary approvals from Council and / or relevant roads authorities</u> (if applicable).

[SSD-9772-Mod-1]

Proposed Response

TSA to submit relevative available. This could i) Subdivision certific roads/infrastructure ii) Letter from Stock roads/infrastructure use (as a private roaprogress)

iii) Letter from the boon Road B and Bus 2 accordance with the iv) Statement from the future Fontana Drive operational

Could you please confirm that the above would be deemed acceptable (or what other information may be required). Clarity on item (f) would be appreciated as well (e.g. is this approval to construct the road?).

Please give me a call if easier to discuss.

Kind Regards,

Isaac Conway

Project Manager



Level 4, 25 Watt Street, Newcastle, NSW 2300 M:+61 401 526 236 / O:+61 2 9276 1400 Isaac.Conway@tsamgt.com / www.tsamgt.com



I acknowledge the Traditional Owners and Custodians of the lands on which I live and work and pay my respect to Elders past, present and fut ure.

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25 October 2021

The General Manager The Hills Shire Council PO Box 75 CASTLE HILL NSW 1765



Attention: Mr Michael Edgar

GABLES TOWN CENTRE ROADS A & B Council Reference No. CC 85/2020/EC

Property Description:

Lot 2 DP 1237552, Lot 2 DP 1237552 Red Gables Road, BOX HILL NSW 2765 CONSTRUCTION CERTIFICATION

I, Ryan Noney, of Western Earthmoving Pty Ltd, hereby certify that the road pavement and other items for this project has been constructed in accordance with the conditions of the Construction Certificate, the approved pavement design report and in accordance with The Hills Shire Council's "Works Specification Subdivisions/Developments"

Yours Faithfully, WESTERN EARTHMOVING PTY LTD,

Ryan Noney *BE(Hons) DipProfEngPrac* Project Manager

rnoney@wem.com.au

25 October 2021

The General Manager The Hills Shire Council PO Box 75 CASTLE HILL NSW 1765

Attention: Mr Michael Edgar



GABLES TOWN CENTRE ROADS A & B - STREETSCAPE Council Reference No. CC 85/2020/EC/A

Property Description:

Lot 2 DP 1237552, Lot 2 DP 1237552 Red Gables Road, BOX HILL NSW 2765 CONSTRUCTION CERTIFICATION

I, Ryan Noney, of Western Earthmoving Pty Ltd, hereby certify that the school driveways, streetscape and other items for this project has been constructed in accordance with the conditions of the Construction Certificate, the approved pavement design report and in accordance with The Hills Shire Council's "Works Specification Subdivisions/Developments"

Yours Faithfully, WESTERN EARTHMOVING PTY LTD,

Ryan Noney *BE(Hons) DipProfEngPrac* Project Manager rnoney@wem.com.au



THE HILLS SHIRE COUNCIL

3 Columbia Court, Norwest NSW 2153 PO Box 7064, Norwest 2153 ABN 25 034 494 656 | DX 9966 Norwest

13 August 2021

Stockland Development Pty Ltd Level 29 133 Castlereagh St SYDNEY NSW 2000

Dear Sir/ Madam

CONSTRUCTION CERTIFICATE

In accordance with the Environmental Planning and Assessment Act 1979, Roads Act 1993 and/ or Local Government Act 1993

Notice is given of determination by Council the consent authority of the Certificate described below.

Development:	Subdivision creating three development lots and two residue lots including new road (amended civil plans and landscaping/ public domain details responding to Local Traffic Committee approval of signage, linemarking and other traffic elements associated with Santa Sophia Catholic College)
Construction Certificate No.:	85/2020/EC/A
Property Description:	Lot 2 DP 1237552 Lot 2 DP 1237552 Red Gables Road, GABLES NSW 2765
Applicant:	Stockland Development Pty Ltd
Owner:	AW Bidco 4 Pty Limited
Construction Category	Subdivision/ Engineering Works
Decision:	Approved
Date of Certificate:	13 August 2021
Development Consent No.:	1542/2019/ZB
Date of Issue:	5 June 2020

This subdivision works Construction Certificate is a Part 4A Certificate issued in accordance with Section 109C(1)(b) of the Environmental Planning and Assessment Act 1979 and certifies that the subdivision works, as detailed in the plans and specifications listed below and attached to this certificate, if completed in accordance with these plans and specifications, will comply with the requirements of the Environmental Planning and Assessment Act 1979 and the Environmental Planning and Assessment Regulation 2000.

This approval is issued in accordance with Section 138 of the Roads Act 1993 and/ or Section 68 of the Local Government Act 1993.

The following plans, accompanying documents and specifications comply with the standards and/ or requirements listed below:

LIST OF PLANS, ACCOMPANYING DOCUMENTS AND SPECIFICATIONS:

Plans:	The Gables RGR 1A1B & Town Centre Roads A&B Streetscape Civil		
	Engineering Works Rev 2 prepared by Enspire		
	Box Hill North – Precinct E Town Centre Roads A&B & RGR 1A/1B		
	Streetscape Construction Certificate Rev I prepared by Aecom		
Documents:	iments: Minutes of the duly convened Ordinary Meeting of The Hills Shire		
	Council held in the Council Chambers on 27 July 2021 Item 10 LTC		
	Recommendation June 2021 – Santa Sophia Catholic College		
	Gables – Proposed Parking Restrictions and Linemarking Plans		

STANDARDS AND/ OR REQUIREMENTS TO BE COMPLIED WITH:

The Hills Shire Council's Design Guidelines – Subdivision and Developments The Hills Shire Council's Works Specifications – Subdivision and Developments

https://www.thehills.nsw.gov.au/Building/Development-Approvals/Subdivision/Subdivision-Engineering-Specifications-Drawings

NOTES:

In accordance with Section 6.12 of the Environmental Planning and Assessment Act 1979 the subdivision works covered by this Certificate may not commence until:

The person having the benefit of the development consent has appointed a principal certifier for the subdivision work.

Note: For subdivision work Council must be the principal certifier as per Section 6.5 of the Environmental Planning and Assessment Act 1979. Another certifier cannot carry out inspections of subdivision work without the approval of the principal certifier. To assist Council's subdivision works Construction Certificate/ Subdivision Works Certificate application form incorporates an appointment of principal certifier form.

The person having the benefit of the development consent has given at least 2 days' notice to the Council (as the principal certifier) of their intention to commence the subdivision work.

The development consent referred to above includes a number of conditions under the heading "prior to works commencing on the site" that must be complied with. This includes, but is not limited to, the need for a traffic control plan, service certificates and a pavement design.

A schedule of required inspections, hold points and notification requirements is provided in The Hills Shire Council's Works Specifications – Subdivision and Developments and must be followed. These inspections must be carried out by Council's Construction Engineer.

Please contact Mark Nabua on (02) 9843 0389 or 0481 902 487 if you require any further information.

Yours Faithfully

Ben Hawkins

MANAGER - SUBDIVISION & DEVELOPMENT CERTIFICATION

BOX HILL NORTH - PRECINCT E TOWN CENTRE ROADS A&B & RED GABLES ROAD 1A/1B STREETSCAPE

CONSTRUCTION CERTIFICATE

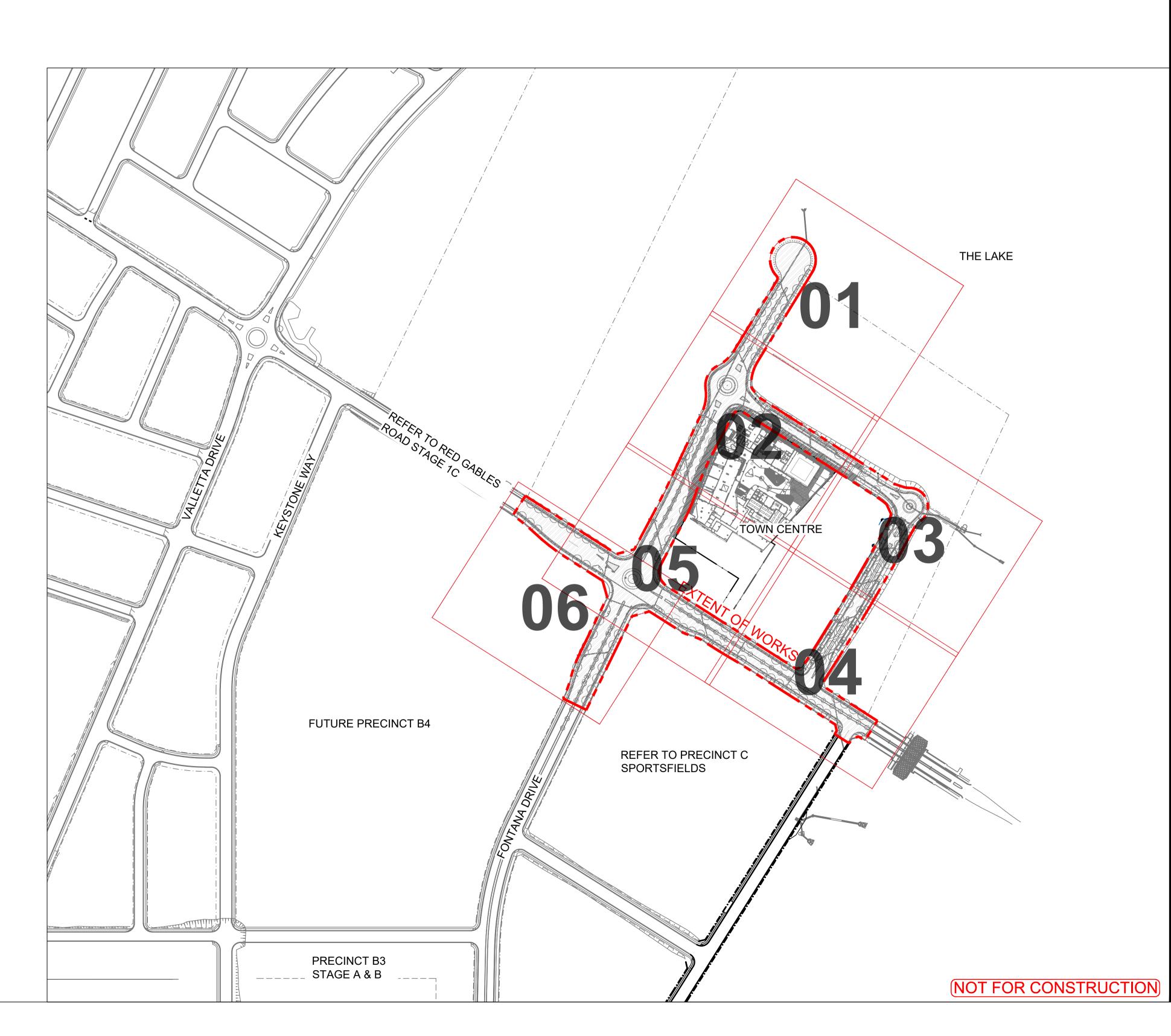
DI	RAWING REGISTER	
Drawing No.	Drawing Title	
60636281-DRG-20-TCAB-LD-0001	COVER PAGE & DRAWING REGISTER	SHEET 1 of 5
60636281-DRG-20-TCAB-LD-0011	LEGEND AND GENERAL NOTES	SHEET 2 of 5
60636281-DRG-20-TCAB-LD-0012	PLANT SCHEDULE	SHEET 3 of 5
60636281-DRG-20-TCAB-LD-0013	MATERIALS & FINISHES SCHEDULE	SHEET 4 of 5
60636281-DRG-20-TCAB-LD-0014	MATERIALS & FINISHES SCHEDULE	SHEET 5 of 5
60636281-DRG-20-TCAB-LD-0201	MATERIALS AND FINISHES PLAN	SHEET 1 of 6
60636281-DRG-20-TCAB-LD-0202	MATERIALS AND FINISHES PLAN	SHEET 2 of 6
60636281-DRG-20-TCAB-LD-0203	MATERIALS AND FINISHES PLAN	SHEET 3 of 6
60636281-DRG-20-TCAB-LD-0204	MATERIALS AND FINISHES PLAN	SHEET 4 of 6
60636281-DRG-20-TCAB-LD-0205	MATERIALS AND FINISHES PLAN	SHEET 5 of 6
60636281-DRG-20-TCAB-LD-0206	MATERIALS AND FINISHES PLAN	SHEET 6 of 6
60636281-DRG-20-TCAB-LD-0301	PLANTING PLAN	SHEET 1 of 6
60636281-DRG-20-TCAB-LD-0302	PLANTING PLAN	SHEET 2 of 6
60636281-DRG-20-TCAB-LD-0303	PLANTING PLAN	SHEET 3 of 6
60636281-DRG-20-TCAB-LD-0304	PLANTING PLAN	SHEET 4 of 6
60636281-DRG-20-TCAB-LD-0305	PLANTING PLAN	SHEET 5 of 6
60636281-DRG-20-TCAB-LD-0306	PLANTING PLAN	SHEET 6 of 6
60636281-DRG-20-TCAB-LD-0911	DETAILS	SHEET 1 of 8
60636281-DRG-20-TCAB-LD-0912	DETAILS	SHEET 2 of 8
60636281-DRG-20-TCAB-LD-0913	DETAILS	SHEET 3 of 8
60636281-DRG-20-TCAB-LD-0914	DETAILS	SHEET 4 of 8
60636281-DRG-20-TCAB-LD-0915	DETAILS	SHEET 5 of 8
60636281-DRG-20-TCAB-LD-0916	DETAILS	SHEET 6 of 8
60636281-DRG-20-TCAB-LD-0917	DETAILS	SHEET 7 of 8
60636281-DRG-20-TCAB-LD-0921	DETAILS	SHEET 8 of 8

THE HILLS SHIRE COUNCIL CONSTRUCTION CERTIFICATE

DA 1542/2019/ZB

CC 85/2020/EC/A

CC APPROVED ON 11/08/2021





CLIENT



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Sydney, 2000, Australia
02 9035 2000 tel
02 8988 2000 fax
www.stockland.com.au
Prepared for:
Stockland Development
Pty Ltd

CONSULTANT

AECOM Australia Pty Ltd A.B.N 20 093 846 925 www.aecom.com

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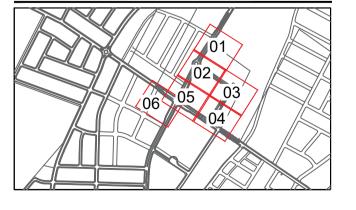
REGISTRATION

PROJECT MANAGEMENT INITIALS

DESIGNER		CHECKED	APPROVED	
ISS	SUE/REVISI	0	N	
		_		
	05.08.2021		CONSTRUCTI	ON CERTIFICATE
Н	22.07.2021		CONSTRUCTI	ON CERTIFICATE

e de	I	22.07.2021	CONSTRUCTION CERTIFICA
s th	G	04.06.2020	CONSTRUCTION CERTIFICA
nfirms th	F	28.05.2020	CONSTRUCTION CERTIFICA
con	Е	03.05.2020	CONSTRUCTION CERTIFICA
block	D	16.04.2020	DRAFT CC
e blo	I/R	DATE	DESCRIPTION
_			

KEY PLAN





PROJECT NUMBER

60636281

SHEET TITLE

TOWN CENTRE ROADS COVER PAGE AND DRAWING REGISTER

SHEET NUMBER

60636281-DRG-20-TCAB-LD-0001

LEGEND

GENERAL

PA3

PA3b

PA4

TC1

EXTENT OF WORKS

--33.25 PROPOSED ROAD CONTOUR (0.25m)

SURFACE FINISHES

STONE UNIT: PEDESTRIAN PAVEMENT PA1a REFER DETAILS AND MATERIALS AND FINISHES SCHEDULE FOR SPECIFICATIONS

STONE UNIT: 600 x 600mm

STONE UNIT: 400 x 800mm

STONE UNIT: TRAFFICABLE PAVEMENT

PA1b REFER DETAILS AND MATERIALS AND FINISHES SCHEDULE FOR SPECIFICATIONS

TO BE CUT DOWN TO SIZE TO LIMIT JOINTS

TO BE CUT DOWN TO SIZE TO LIMIT JOINTS REFER DETAILS AND MATERIALS AND FINISHES SCHEDULE FOR SPECIFICATIONS

> REFER DETAILS AND MATERIALS AND FINISHES SCHEDULE FOR SPECIFICATIONS BROOM FINISH CONCRETE: PEDESTRIAN PAVEMENT

REFER TYPICAL HILLS SHIRE COUNCIL DETAILS AND MATERIALS AND FINISHES SCHEDULE FOR SPECIFICATIONS BROOM FINISH CONCRETE: TRAFFICABLE PAVEMENT

REFER TYPICAL HILLS SHIRE COUNCIL DETAILS AND MATERIALS AND FINISHES SCHEDULE FOR SPECIFICATIONS

COLOURED CONCRETE: CYCLEWAY

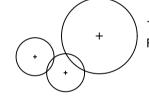
REFER TYPICAL HILLS SHIRE COUNCIL DETAILS AND MATERIALS AND FINISHES SCHEDULE FOR SPECIFICATIONS

STONE UNIT: TACTILE PAVEMENT REFER DETAILS AND MATERIALS AND FINISHES SCHEDULE FOR SPECIFICATIONS

CONTRACTION JOINT: SAW CUT REFER TO ENSPIRES DRAWINGS

EXPANSION JOINT REFER TO ENSPIRES DRAWINGS TIMBER EDGE REFER DETAILS

PLANTING & SOFTSCAPES



GB1

GB2

TREE PLANTING REFER DETAILS AND PLANT SCHEDULE FOR SPECIFICATIONS

REFER DETAILS AND PLANT SCHEDULE FOR SPECIFICATIONS

STRUCTURAL SOIL

LINKED TRENCH

GROUNDCOVER PLANTING REFER DETAILS AND PLANT SCHEDULE FOR SPECIFICATIONS

REFER DETAILS AND PLANT SCHEDULE FOR SPECIFICATIONS

REFER DETAILS AND PLANT SCHEDULE FOR SPECIFICATIONS

6.4. REFER SEPARATE DRAWINGS (BY OTHERS) FOR LOCATION OF ALL TELECOMMUNICATION SERVICES INCLUDING BUT NOT LIMITED TO CONDUITS, CABLES, AND SERVICE POINT LOCATIONS. TREE SURROUND MULCH REFER DETAILS AND PLANT SCHEDULE FOR SPECIFICATIONS 6.5. REFER SEPARATE ENGINEERING DRAWINGS (BY OTHERS) FOR CONFIRMATION OF STORM WATER

TREATMENTS AND/OR BIO-BASIN LOCATIONS INCLUDING BUT NOT LIMITED TO SERVICE PIPES, INSPECTION AND OVERFLOW PITS.

7. SEEK CONFIRMATION WITH LOCAL AUTHORITIES OR SIMILAR AS APPROPRIATE FOR ALL SERVICE LOCATIONS PRIOR TO COMMENCING ANY EXCAVATION ON SITE. DIAL BEFORE YOU DIG INFORMATION REFER www.1100.com.au OR PHONE 1100.

8. TREES AND PLANTING WORKS

SUBTERRANEAN SERVICES:

9. ALL TOPSOIL MUST MEET THE REQUIREMENTS AS SETOUT WITHIN THE LANDSCAPE SPECIFICATION. TOPSOIL MUST BE TESTED BY A SUITABLY QUALIFIED PROFESSIONAL, AND RECOMMENDATIONS BE INCORPORATED AS APPROPRIATE. ALL TOPSOIL MUST BE AMELIORATED AND BLENDED WITH ADDITIVES (AS REQUIRED) ON SITE.

10. TYPICAL SAMPLE OF MULCH TO BE INSTALLED WITHIN WORKS TO BE WITNESSED ON SITE BY LANDSCAPE SUPERINTENDENT FOR APPROVAL PRIOR TO INSTALLATION IN ACCORDANCE WITH THE LANDSCAPE

11. A TYPICAL SAMPLE OF PLANT-STOCK TO BE INSTALLED SHALL BE WITNESSED ON SITE BY LANDSCAPE SUPERINTENDENT FOR APPROVAL PRIOR TO INSTALLATION IN ACCORDANCE WITH THE LANDSCAPE SPECIFICATION.

12. ALL PLANT SPECIES MUST BE INSTALLED AS PER THE SPECIFIED PLANT SCHEDULE. ANY VARIATIONS FROM THE PLANT SCHEDULE MUST BE APPROVED IN WRITING PRIOR TO INSTALLATION. SHOULD INCORRECT SPECIES BE INSTALLED WITHOUT PRIOR APPROVAL, THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT WITH CORRECT SPECIES AT THE CONTRACTORS EXPENSE.

13. ALL TREE STOCK INSTALLED (REGARDLESS OF SIZE) MUST BE NATSPEC COMPLIANT. ARBORIST CERTIFICATION AND ALL NATSPEC COMPLIANCE IS RESPONSIBILITY OF CONTRACTOR. THE CONTRACTOR IS TO ENSURE TREES ARE NATSPEC COMPLIANT AT INSTALLATION AND THE COMPLETION OF THE CONTRACTOR MAINTENANCE PERIOD.

14. ALL TREES MUST BE STAKED AND TIED IN ACCORDANCE WITH THE LANDSCAPE SPECIFICATION AND DETAIL DRAWINGS. STAKES AND TIES TO BE REMOVED AT THE END OF THE LANDSCAPE MAINTENANCE PERIOD OR AS ASSESSED ON SITE BY THE LANDSCAPE SUPERINTENDENT. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL STAKES AND TIES.

15. ALL TREES, SHRUBS AND GRASSES ARE TO BE INSTALLED OFFSET FROM KERB, FOOTPATHS, AND HARDSTAND AREAS AS OUTLINED WITHIN THE PLANT SCHEDULE AND TREE PLANTING DETAILS.

FURNITURE & FIXTURES

FURNITURE TYPE 3a - CONCRETE BOLLARD F3a REFER DETAILS AND FURNITURE AND FIXTURES SCHEDULE FOR SPECIFICATIONS

[F4] **-6**-

FURNITURE TYPE 4 - TREE GRATE REFER SURFACE FINISHES PLANS FOR ASSOCIATED MATERIAL INFILL REFER DETAILS AND FURNITURE AND FIXTURES SCHEDULE FOR SPECIFICATIONS

UTILITIES



INDICATIVE POST LIGHT LOCATION FINIAL LOCATION TO BE CONFIRMED

INDICATIVE COMMS PIT LOCATION FINIAL LOCATION TO BE CONFIRMED

INDICATIVE SERVICE PIT LOCATIONS FINIAL LOCATION TO BE CONFIRMED

LANDSCAPE WORKS, AND ALL RELEVANT CONTRACT DOCUMENTS.

CLARIFICATION OF DIMENSIONS WHERE REQUIRED.

SERVICE LOCATIONS REFER AS FOLLOWS:

SUBTERRANEAN SERVICE LOCATIONS ON SITE PRIOR TO COMMENCING WORKS.



NOTES





THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT TECHNICAL SPECIFICATION FOR

3. LANDSCAPE DRAWINGS ARE PROVIDED FOR SURFACE TREATMENTS WITHIN THE SCOPE OF WORKS AS DEFINED

ON THE DRAWINGS. THESE DRAWINGS SHOULD NOT BE USED FOR LOCATING ANY SUBTERRANEAN SERVICES

INFORMATION ONLY; ENGINEERING SHOP DRAWINGS ARE TO BE OBTAINED FOR ALL STRUCTURAL ITEMS PRIOR TO COMMENCEMENT OF WORKS. CONTACT THE PROJECT LANDSCAPE ARCHITECT / DESIGN ENGINEER FOR

5. SETOUT AND INSPECTION OF THE WORKS AS OUTLINED IN THE LANDSCAPE TECHNICAL SPECIFICATION MUST BE

6. ALL SERVICE LOCATIONS SHOWN ON THE DRAWINGS ARE INDICATIVE AND SHOWN FOR REFERENCE ONLY. FOR

6.1. REFER TO LOCAL AUTHORITY DRAWINGS WHERE APPROPRIATE FOR ALL SUBTERRANEAN SERVICES

6.2. REFER SEPARATE ENGINEERING DRAWINGS (BY OTHERS) FOR ALL STORMWATER, WATER, AND SEWER SERVICES INCLUDING BUT NOT LIMITED TO CONDUITS, PIPES MAN-HOLES AND ACCESS POINTS

6.3. REFER SEPARATE ELECTRICAL DRAWINGS (BY OTHERS) FOR LOCATION OF ALL ELECTRICAL SERVICES

INCLUDING BUT NOT LIMITED TO CONDUITS, CABLES, SWITCH-BOXES AND SERVICE POINT LOCATIONS

2. THE CONTRACTOR IS REQUIRED TO ORGANISE AN ON-SITE PRE-START / TOOLBOX MEETING WITH THE

LANDSCAPE SUPERINTENDENT AND PRINCIPAL PRIOR TO COMMENCEMENT OF ANY SITE WORKS

WITNESSED AND APPROVED BY THE LANDSCAPE SUPERINTENDENT PRIOR TO CONSTRUCTION.

WITHIN OR OUTSIDE THE SCOPE OF WORKS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL

4. ALL DIMENSIONS ARE PROVIDED IN MILLIMETERS UNLESS OTHERWISE NOTED. DIMENSIONS SHOULD NOT BE OBTAINED BY SCALING OFF THE DRAWINGS. ALL DIMENSIONS WITHIN DETAIL PAGES ARE PROVIDED FOR



LEVELS AND GRADING

- 16. ALL GRADES NOMINATED ARE MAXIMUM ALLOWABLE GRADES UNLESS NOTED OTHERWISE (U.N.O.)
- 17. ALL LEVELS AND GRADES ARE AS NOMINATED ON THE CIVIL PLANS, ANY LEVELS WITHIN THESE DRAWINGS ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CONFIRM ALL EXISTING AND PROPOSED LEVELS ONSITE AND ADVISE WHERE ERRORS OCCUR PRIOR TO THE PLACEMENT OF FORMWORKS OR INSTALLATION OF FOOTINGS/SERVICES.
- 18. TOP OF KERB LEVELS NOMINATED ARE PROVIDED BY THE ROADWORKS ENGINEER. ALL CIVIL LEVELS ARE TO BE
- 19. RAMPS AND FALLS INDICATED ON PLANS ARE TO BE CONFIRM ONSITE. GRADING SHALL CONFORM ACCESS REQUIREMENTS AS OUTLINED WITHIN AS1428. PAVEMENT CROSS-FALLS SHALL NOT EXCEED 1:40 (1:50 TYPICAL). PAVEMENT LONG-FALLS SHALL NOT EXCEED 1:20 (1:21 TYPICAL) AND BE PROVIDED WITH LANDINGS AT 15M INTERVALS UNLESS OTHERWISE NOTED.
- 20. RAMPS AND FALLS INDICATED ON PLANS ARE TO BE CONFIRM ONSITE. GRADING SHALL CONFORM ACCESS REQUIREMENTS AS OUTLINED WITHIN AS1428. PAVEMENT CROSS-FALLS SHALL NOT EXCEED 1:40 (1:50 TYPICAL). PAVEMENT LONG-FALLS SHALL NOT EXCEED 1:20 (1:21 TYPICAL) AND BE PROVIDED WITH LANDINGS AT 15M INTERVALS UNLESS OTHERWISE NOTED.
- 21. THE CONTRACTOR SHALL ALLOW FOR SURVEY CONFIRMATION OF ALL AS-CONSTRUCTED PAVEMENT LEVELS AND GRADES. LEVEL CONFIRMATION TO BE UNDERTAKEN AFTER THE COMPLETION OF ALL PAVEMENT FINISHING WORKS (IE. ABRASIVE BLASTING, HONING AND WATER-WASH EXPOSING). WHERE INSTALLED PAVEMENTS EXCEED THE MAXIMUM ALLOWABLE CROSS-FALLS AND LONG-FALLS THESE SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE PROJECT.

THE HILLS SHIRE COUNCIL CONSTRUCTION CERTIFICATE

DA 1542/2019/ZB

CC 85/2020/EC/A

CC APPROVED ON 11/08/2021

PROJECT

THE GABLES PRECINCT E TOWN CENTRE ROADS

CLIENT



Level 25, 133 Castlereagh Street, Sydney, 2000, Australia 02 9035 2000 tel 02 8988 2000 fax www.stockland.com.au Prepared for: Stockland Development Pty Ltd A.B.N 71 000 064 835

CONSULTANT

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REGISTRATION

PROJECT MANAGEMENT INITIALS

CL/HC	HC	JB		
DESIGNER	CHECKED	APPROVED		

ISSUE/REVISION

I	22.07.2021	CONSTRUCTION CERTIFICAT
G	04.06.2020	CONSTRUCTION CERTIFICAT
F	28.05.2020	CONSTRUCTION CERTIFICAT
Е	03.05.2020	CONSTRUCTION CERTIFICAT
D	16.04.2020	DRAFT CC
I/R	DATE	DESCRIPTION

KEY PLAN

SCALE

PROJECT NUMBER

60636281 **SHEET TITLE**

TOWN CENTRE ROADS LEGEND AND GENERAL NOTES

SHEET NUMBER

PLANT SCHEDULES

5) Trees to be set back min 9m from property boundary corner collectors roads

Code	Botanical Name	Common Name	Mature Height x Spread	Plant Densities	Container Size	Percentage (%)	Quanti
Trees							· -
ACE rub	Acer rubrum	Red Maple	12 x 8m	As Shown	400L	-	50
COR mac	Corymbia maculata	Spotted Gum	18 x 8m	As Shown	150L	-	7
FIC rub	Ficus rubiginosa	Rusty Fig	18 x 12m	As shown	800-1000L	-	1
OP con	Lophostemon confertus	Brush Box	18 x 8m	As Shown	200L	-	51
PYR cap	Pyrus capital	Ornamental Pear	12 x 4m	As Shown	200L	-	23
QUE pin	Quercus palustris 'Pingreen'	Green Pillar	10 x 4m	As Shown	200L	-	36
QUE edf	Quercus palustris EDF	Pin Oak EDF (Early defoliant form)	15 x 8m	As Shown	1000L	-	2
JLM par_a	Ulmus parvifolia	Chinese Elm 'Todd'	10 x 8m	As Shown	200L	-	9
JLM par_b	Ulmus parvifolia	Chinese Elm 'Todd'	10 x 8m	As Shown	400L	-	31
· <u> </u>	· ·					<u> </u>	
hrubs, Gra	sses and Groundcovers						<u> </u>
GA sno	Agapanthus orientalis 'Snowball'	Agapanthus Snowball	0.4 x 0.4m	5/m²	140mm	-	T 80
BUX jap	Buxus microphylla var. japonica	Japanese Box	0.6 x 1m	0.45m centers	140mm		167
OR pac	Coprosma 'Pacific Sunset'	Pacific Sunset	1 x 1m	3/m²	140mm		404
RE gla	•	Blue Horizon	0.25 x 1m	3/m²	140mm	-	265
AZ rig	Gazania rigens 'New Day'	New Day Gazania	0.2 x 0.6m	4/m²	140mm	_	1117
GRE tam	Grevilliea lanigera 'Mt Tamboritha'	Grevilliea 'Mt Tamboritha'	0.6 x 6m	4/m²	140mm	_ (100
UN sab	Juniperus sabina 'Tamariscifolia'	Tam Juniper	1.0 x 0.6m	5/m²	140mm	-	455
	•	·		<u> </u>		<u>-</u>	
IR isa	Liriope muscari 'Isabella'	Isabella Lily	0.5 x 0.5m	3/m²	140mm	-	451
.IR mus	Liriope muscari 'Amethyst'	Lilyturf	0.5 x 0.6m	5/m²	140mm	-	636
OM Ion	Lomandra longifolia 'Verday'	Verday	0.5 x 0.5m	4/m²	140mm	-	161
1YO par	Myoporum parvifolium 'Yareena'	Creeping Boobialla	0.1 x 2m	3/m²	140mm	-	70
EN alo	Pennisetum alopecuroides 'Nafray'	Swamp Foxtail Grass	0.6 x 0.6m	4/m²	140mm	-	494
RAP ind	Rhaphiolepis indica 'Snow Maiden'	Indian Hawthorn Snow Maiden	0.6 x 0.6m	3/m²	140mm	-	975
EU fru	Teucrium fruitcans	Shrubby Germander	0.8m x 1m	1/m²	140mm	-	98
RA asi	Trachelospermum asiaticum 'Flat Mat'	Japanese Star Jasmine 'Flat Star'	0.4m x 4m	2/m²	140mm	-	423
	nd Covers and Grasses	T.					
AGA buc	Agapanthus orientalis 'Buccaneer'	Agapanthus Buccaneer	0.6 x 0.7m	5/m²	140mm	40%	82
.IR mus	Liriope muscari 'Amethyst'	Lilyturf	0.5 x 0.6m	5/m²	140mm	60%	122
	nd Covers and Grasses						
AGA sno	Agapanthus orientalis 'Snowball'	Agapanthus Snowball	0.4 x 0.4m	5/m²	140mm	40%	423
.OM Ion	Lomandra longifolia 'Verday'	Verday	0.5 x 0.5m	4/m²	140mm	60%	537
/IIX 3: Grou	nd Covers and Grasses						
PEN alo	Pennisetum alopecuroides 'Nafray'	'NAFRAY' Pennisetum	0.6 x 0.6m	5/m²	140 mm	40%	398
POA lab	Poa labillardieri 'Eskdale'	'Eskdale' Poa	0.5 x 0.5m	5/m²	140mm	60%	595
/IIX 4: Grou	nd Covers and Grasses						
.OM flu	Lomandra fluviatilis 'Shara'	Shara	0.5 x 0.5m	5/m²	140mm	40%	383
.OM kat	Lomandra longifolia 'Katrinus'	Katrinus	0.7 x 0.7m	5/m²	140mm	60%	575
urf							
Turf to be A	grade, Thin Leaf Couch, speacies either "W	ntergreen" or "Nullabor"					3580r
lotes:	·		·				
10103.	One we de a verse and a reall about a faile and a relative	min 200mm book from korb footnoth	ne and addes				
	Groundcovers and small shrubs to be planted	i illin sooinin back iloin keib. loolbali	is and edges				
Gasses, (·			own.			
Gasses, 0 Mixed pla	eroundcovers and small shrubs to be planted anting areas; plant grasses and ground cover e situated minimum 750mm from back of ke	s in groups of 5-15 and shrubs in group		own.			

THE HILLS SHIRE COUNCIL CONSTRUCTION CERTIFICATE

DA 1542/2019/ZB

CC 85/2020/EC/A

CC APPROVED ON 11/08/2021

PROJECT

THE GABLES PRECINCT E TOWN CENTRE ROADS

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F 28.05.2020 CONSTRUCTION CERTIFICATE

JB

E 03.05.2020 CONSTRUCTION CERTIFICATE D 16.04.2020 DRAFT CC I/R DATE DESCRIPTION

KEY PLAN

PROJECT NUMBER

60636280

SHEET TITLE

TOWN CENTRE ROADS PLANT SCHEDULE

SHEET NUMBER

MA	ATERI	ALS & FINISHES				
No	Code	Image / Sample	Item	Product Description	Finish	Supplier
1.0	0 Hardsca	ape Works - refer Materials and Fir	nishes Plans			
1) M				ement of construction (including the specified surface finish, jointing and sealing) lation		
1.01	PA1a PA1b	GREY MIX Rhodes 43% Manhattan 29% Hudson 21% Cathedral 7% Flinders 10% Botanical 5% Boston 5%	Stone Unit Pavement	Supply and installation of paving over reinforced concrete base, including preparation of subbase, subgrade, concrete slab, fixing, stone paving and sealing. Reinforced concrete base variances as per pavement engineers details. 1) Concrete thickness, strength, reinforcement, jointing as per pavement engineers works 2) Subgrade and subbase details and specifications as per pavement engineers works PA1a - 40mm thick pedestrian pavement PA1b - 80mm thick trafficable pavement	Stone Colour: Mixed colours (Refer pavement setout details) consisting of; GREY MIX 4 3% 'Rhodes' Concrete/Sandstone; 29% 'Manhattan' Concrete/Sandstone; 21% 'Hudson' Concrete/Sandstone; BEIGE/GREY MIX 10% 'Flinders' Concrete/Sandstone; 10% 'Feskine' Concrete/Sandstone; 5% 'Botanical' Concrete/Sandstone; 5% 'Botanical' Concrete/Sandstone; 5% 'Boston' Concrete/Sandstone; 20% 'Manhattan' Concrete/Sandstone; 20% 'Manhattan' Concrete/Sandstone; -15% 'Cathedral' Concrete/Sandstone; -15% 'Cathedral' Concrete/Sandstone; -15% 'Not blasted. Refer pavement setout details. Unit Size: 400mm x 600mm (5 mm mortar jointing) 'Note: Localised areas of 600mm x 600mm (Road B interface) and 400mm x 800mm are proposed to alleviate the need for small cut pavers Sealant: Apply two coats of "CCS Natural Stone Sealer" to all stone surfaces as per manufacturers specifications. Slip Resistance: Finishes to achieve 'Class V' as defined in AS/NZS 4586:1999 Edge Restraint (where required): 316 grade stainless steel equal angle edging fixed to base slab	Stone Outdoors - Concrete Redefined (or approved equal) Ph: 03 8770 6000 dnality assurance system to ISO 9004-2000
1.02	2 PA3		Broom Finish	Supply and installation of pedestrian grade concrete including preparation of subgrade and jointing. Note: 1) Concrete thickness, strength, reinforcement, jointing as per engineers drawings 2) Subgrade and subbase as per pavement engineers details & Specifications.	Colour: Standard Grey Finish: Broom finish Joints: Sikaflex Pro to all sealed concrete joints. Colour to match adjoining concrete pavement. Slip Resistance: Finishes to achieve 'Class V' as defined in AS/NZS 4586:1999	By Contractor Hills Shire Typical Detail: SD.18 Refer engineers drawings
1.03	B PA3b		Broom Finish	Supply and installation of driveway grade concrete including preparation of subgrade and jointing. Note: 1) Concrete thickness, strength, reinforcement, jointing as per Hills Shire typical Details 2) Subgrade and subbase as per pavement engineers details & Specifications.	Colour: Standard Grey Finish: Broom finish (pencil round edge - no troweling) Joints: Sikaflex Pro to all sealed concrete joints. Colour to match adjoining concrete pavement. Slip Resistance: Finishes to achieve 'Class V' as defined in AS/NZS 4586:1999	By Contractor Hills Shire Typical Detail: SD.15 Refer engineers drawings
1.04	PA4		Coloured Concrete (Cycleway)	Supply and installation of cycleway grade concrete including preparation of subgrade and jointing. Note: 1) Concrete thickness, strength, reinforcement, jointing as per Hills Shire typical Details 2) Subgrade and subbase as per pavement engineers details & Specifications.	Colour: Honeycomb Finish: Broom finish Joints: Sikaflex Pro to all sealed concrete joints. Colour to match adjoining concrete pavement. Slip Resistance: Finishes to achieve 'Class V' as defined in AS/NZS 4586:1999	By Contractor Hills Shire Typical Detail: SD.19 Refer engineers drawings
1.05	TC1		Concrete Unit: Tactile Ground Surface Indicators (TGSI)	Supply and installation of 40mm thick paving over reinforced concrete base, including preparation of subbase, subgrade, concrete slab, fixing, stone paving and sealing. 1) Concrete thickness, strength, reinforcement, jointing as per pavement engineers works 2) Subgrade and subbase details and specifications as per pavement engineers works	Colour: 'Erskine' luminance contrast to be confirmed by access consultant. Material: Manufactured stone paver with epoxy-based adheasive Finish: Shot blasted. Refer pavement setout details. Unit Size: 300mm x 300mm (total width of tactiles to be 600mm) Sealant: Apply two coats of "CCS Natural Stone Sealer" to all stone surfaces as per manufacturers specifications. Slip Resistance: Finishes to achieve 'Class V' as defined in AS/NZS 4586:1999 Edge Restraint (where required): 316 grade stainless steel equal angle edging fixed to base slab	Stone Outdoors - Concrete Redefined (or approved equal) Ph: 03 8770 6000

Edge Restraint (where required): 316 grade stainless steel equal angle edging fixed to base slab

THE HILLS SHIRE COUNCIL CONSTRUCTION CERTIFICATE

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PROJECT

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D	16.04.2020	DRAFT CC
I/R	DATE	DESCRIPTION

KEY PLAN

SCALE

N.T.S

PROJECT NUMBER

60636281

SHEET TITLE

TOWN CENTRE ROADS MATERIALS AND FINISHES SCHEDULE

SHEET NUMBER

FURNITURE & FIXTURES No Code Image / Sample Finish Supplier **Product Description** 2.00 Furniture & Fixtures - refer to Furniture & Fittings Plans Furniture Note: 1) Hold Point - Shop Drawings and engieering design to be provided for custom furniture for review prior to fabrication.
2) It is the responsibility of the contractor to ensure standards, quantities, dimensions, fabrication procedures and techniques are in compliance with the contract documentation. It is the responsibility of the contractor to confirm all dimensions on site prior to producing shop drawings and fabrication. **2.03** F3a Precast Concrete Bollard: 09-BCC - Concrete Cube Bollard Concrete Cube Contractor to supply and install concrete cube bollard to manufacturers details and specification, As Urban concealed fixing to pavement slab. Required shadow line to LD-04/0911 Bollard Precase Concrete Sealant: 2 coats of CCS 'Natural Supreme HV (or approved equal) to suppliers specification Email: sales@asurban.com.au Size: 500(L) x 500(W) x 500(H)mm Ph: 1300 889 821 Fixing: 09-BC-FC - Gal Steel Pipe Ground Anchor. Fixed to concrete base slab under pavers. 2.04 Contractor to supply and install Tree Grate and Guard to manufacturers details and Integrated Tree Grilles: GLCA150 - linvisigrate™ Paver Tree Grate with snorkel inlet Tree Grate CityGreen specifications. Dimensions: 1500 x 1500mm Contact - Scott Hacket Email: scott.hackett@citygreen.com Pavers: Manufactured stone paver to match adjacent surfaces Finish: To match paving Ph: 1300 066 949 Unit Size: 400mm x 600mm

Sealant: to match paving

Slip Resistance: Finishes to achieve 'Class V' as defined in AS/NZS 4586:1999

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THE GABLES PRECINCT E TOWN CENTRE ROADS

CLIENT



Pty Ltd

Level 25,

133 Castlereagh Street,

Sydney, 2000, Australia

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Stockland Development

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Prepared for:

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I/R DATE DESCRIPTION

CHECKED

JB

APPROVED

KEY PLAN

PROJECT NUMBER

60636281

SHEET TITLE

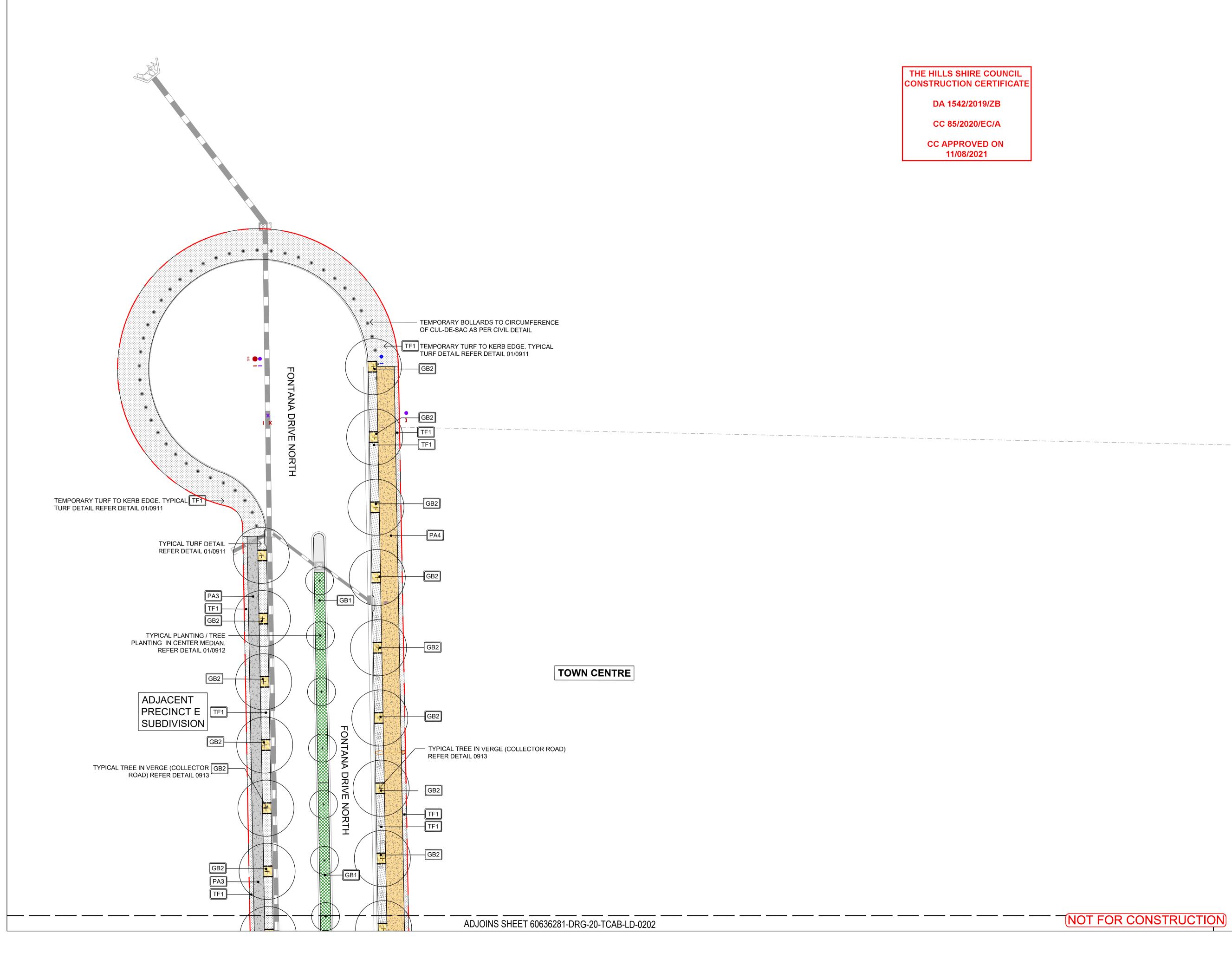
TOWN CENTRE ROADS **FURNITURE** SCHEDULE

SHEET NUMBER

60636281-DRG-20-TCAB-LD-0014

ISSUE

NOT FOR CONSTRUCTION



PROJECT

THE GABLES PRECINCT E TOWN CENTRE ROADS

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Level 25, 133 Castlereagh Street, Sydney, 2000, Australia 02 9035 2000 tel 02 8988 2000 fax www.stockland.com.au Prepared for: Stockland Development Pty Ltd A.B.N 71 000 064 835

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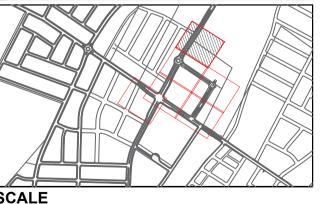
REGISTRATION

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KEY PLAN



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PROJECT NUMBER

60636281

SHEET TITLE

TOWN CENTRE ROADS

MATERIALS AND FINISHES SHEET 1/6

SHEET NUMBER

ISSUE

60636281-DRG-20-TCAB-LD-0201

PROJECT

THE GABLES PRECINCT E TOWN CENTRE ROADS



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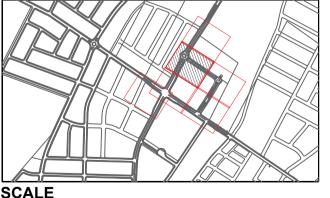
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KEY PLAN



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PROJECT NUMBER

60636281

SHEET TITLE

TOWN CENTRE ROADS MATERIALS AND FINISHES SHEET 2/6

60636281-DRG-20-TCAB-LD-0202

ADJOINS SHEET 60636281-DRG-20-TCAB-LD-0204

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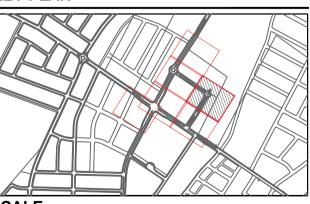
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PROJECT NUMBER

60636281

SHEET TITLE

TOWN CENTRE ROADS MATERIALS AND FINISHES SHEET 3/6

SHEET NUMBER

NOT FOR CONSTRUCTION

ISSUE

60636281-DRG-20-TCAB-LD-0203

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THE GABLES PRECINCT E



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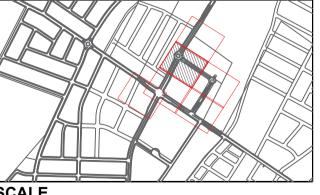
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TOWN CENTRE ROADS

60636281-DRG-20-TCAB-LD-0205

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REGISTRATION

CL/HC

DESIGNER

PROJECT MANAGEMENT INITIALS

ISSUE/REVISION		
Н	22.07.2021	CONSTRUCTION CERTIFICATE
G	04.06.2020	CONSTRUCTION CERTIFICATE

HC

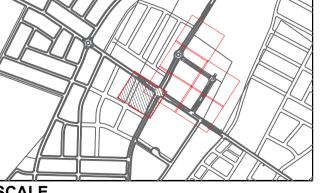
CHECKED

JB

APPROVED

28.05.2020 CONSTRUCTION CERTIFICATE 03.05.2020 | CONSTRUCTION CERTIFICATE I/R DATE DESCRIPTION

KEY PLAN



1:250@A1

PROJECT NUMBER

60636281

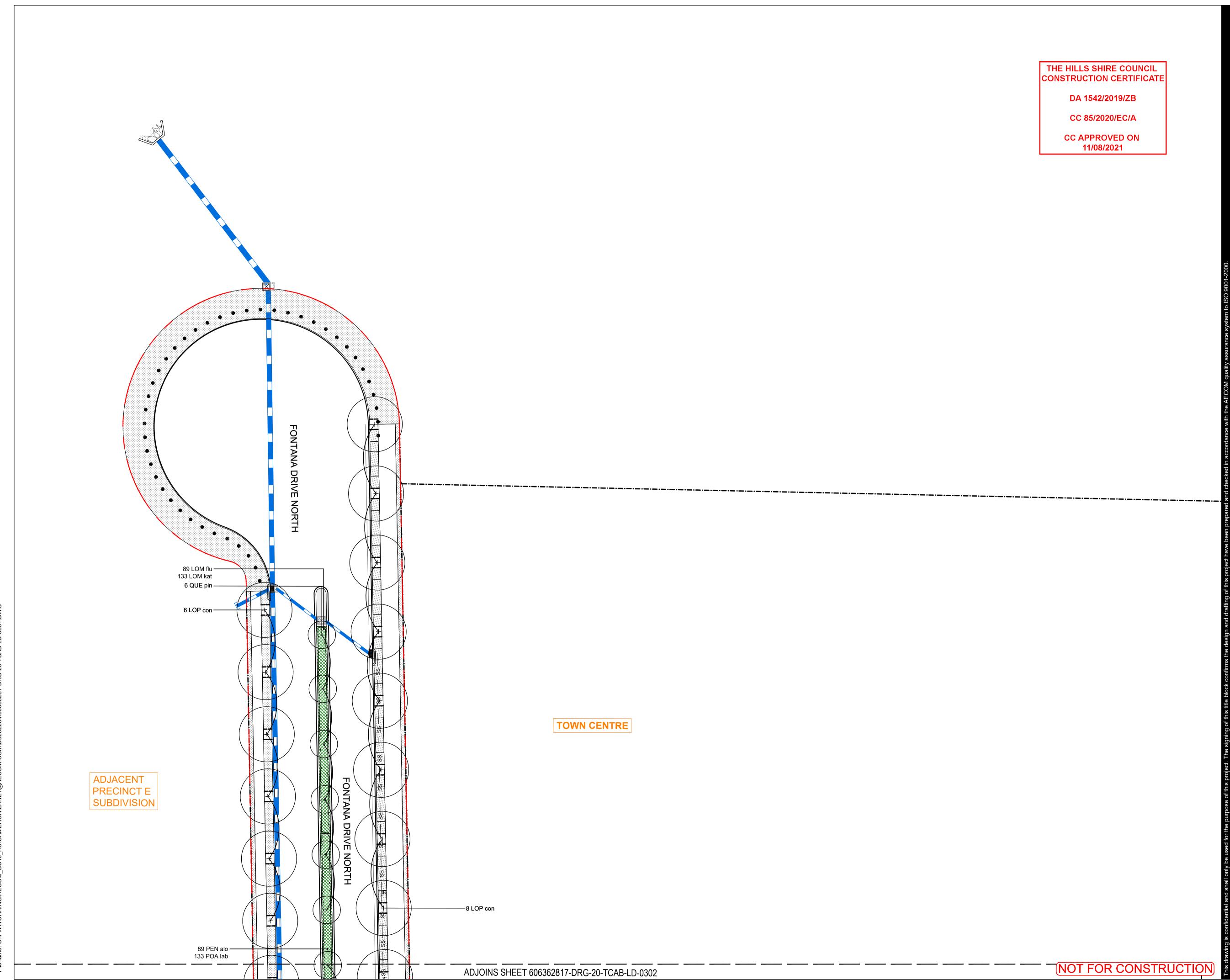
SHEET TITLE

TOWN CENTRE ROADS MATERIALS AND FINISHES

SHEET NUMBER

ISSUE

60636281-DRG-20-TCAB-LD-0206



PROJECT

THE GABLES PRECINCT E TOWN CENTRE ROADS

CLIENT



Level 25, 133 Castlereagh Street, Sydney, 2000, Australia 02 9035 2000 tel 02 8988 2000 fax www.stockland.com.au Prepared for: Stockland Development Pty Ltd A.B.N 71 000 064 835

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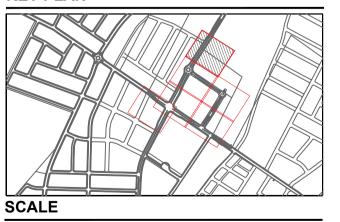
REGISTRATION

PROJECT MANAGEMENT INITIALS

CL/HC	HC	JB		
DESIGNER	CHECKED	APPROVED		
SSUE/REVISION				
		-		

I	22.07.2021	CONSTRUCTION CERTIFICATE
G	04.06.2020	CONSTRUCTION CERTIFICATE
F	28.05.2020	CONSTRUCTION CERTIFICATE
Е	03.05.2020	CONSTRUCTION CERTIFICATE
I/R	DATE	DESCRIPTION

KEY PLAN



PROJECT NUMBER

60636281

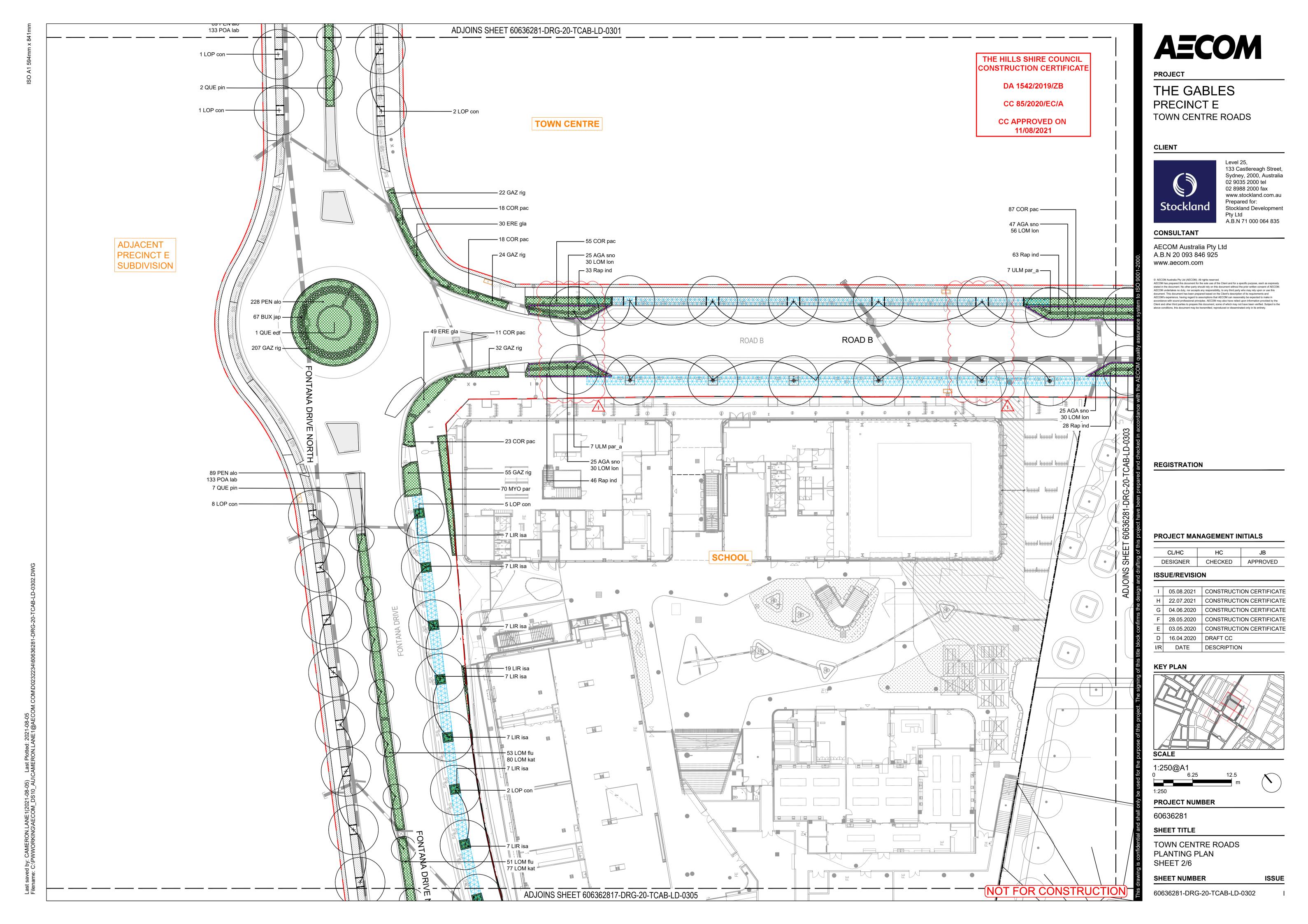
SHEET TITLE

TOWN CENTRE ROADS PLANTING PLAN SHEET 1/6

SHEET NUMBER

ISSUE

60636281-DRG-20-TCAB-LD-0301



PA ADJOINS SHEET 60636281-DRG-20-TCAB-LD-0304

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PROJECT

THE GABLES PRECINCT E TOWN CENTRE ROADS

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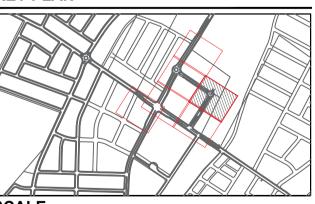
PROJECT MANAGEMENT INITIALS

CL/HC	HC	JB
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

Ι	05.08.2021	CONSTRUCTION CERTIFICAT
Н	22.07.2021	CONSTRUCTION CERTIFICAT
G	04.06.2020	CONSTRUCTION CERTIFICAT
F	28.05.2020	CONSTRUCTION CERTIFICAT
Е	03.05.2020	CONSTRUCTION CERTIFICAT
D	16.04.2020	DRAFT CC
I/R	DATE	DESCRIPTION

KEY PLAN



1:250@A1

PROJECT NUMBER

60636281

SHEET TITLE

NOT FOR CONSTRUCTION

TOWN CENTRE ROADS PLANTING PLAN SHEET 3/6

SHEET NUMBER

60636281-DRG-20-TCAB-LD-0303

PLANTING IN FONTANA DRIVE EXTENSION)

AECOM

PROJECT

THE GABLES PRECINCT E TOWN CENTRE ROADS

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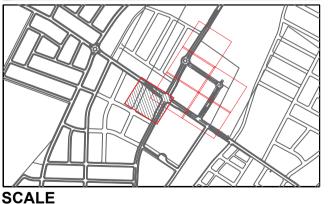
PROJECT MANAGEMENT INITIALS

HC	JB
CHECKED	APPROVED

ISSUE/REVISION

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F	28.05.2020	CONSTRUCTION CERTIFICAT
Е	03.05.2020	CONSTRUCTION CERTIFICAT
I/R	DATE	DESCRIPTION

KEY PLAN



1:250@A1

PROJECT NUMBER

60636281

SHEET TITLE

– 89 LOM flu

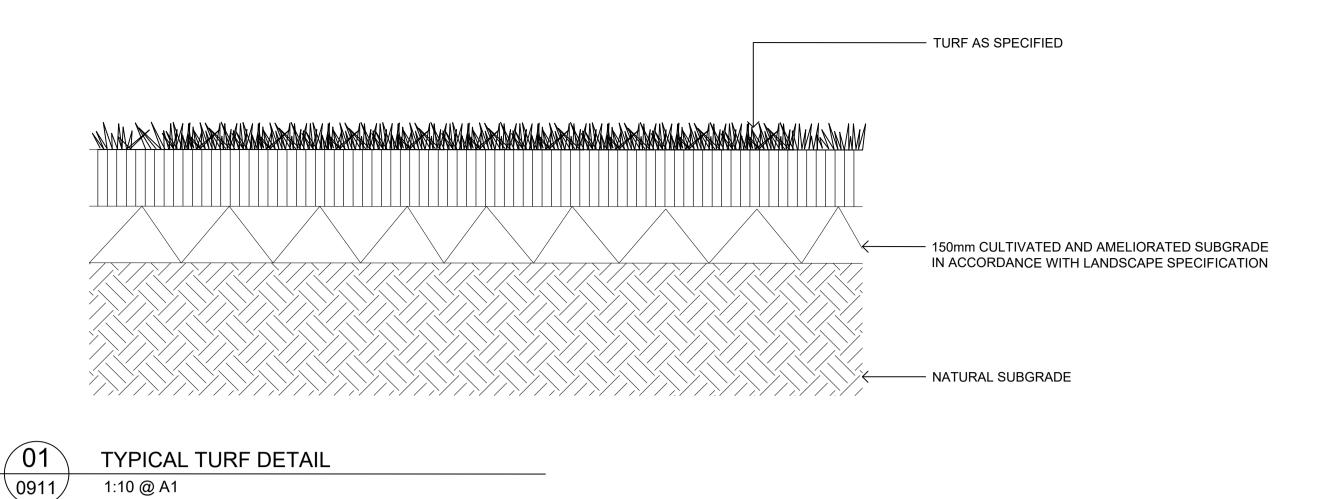
NOT FOR CONSTRUCTION

134 LOM kat

TOWN CENTRE ROADS PLANTING PLAN SHEET 6/6

SHEET NUMBER

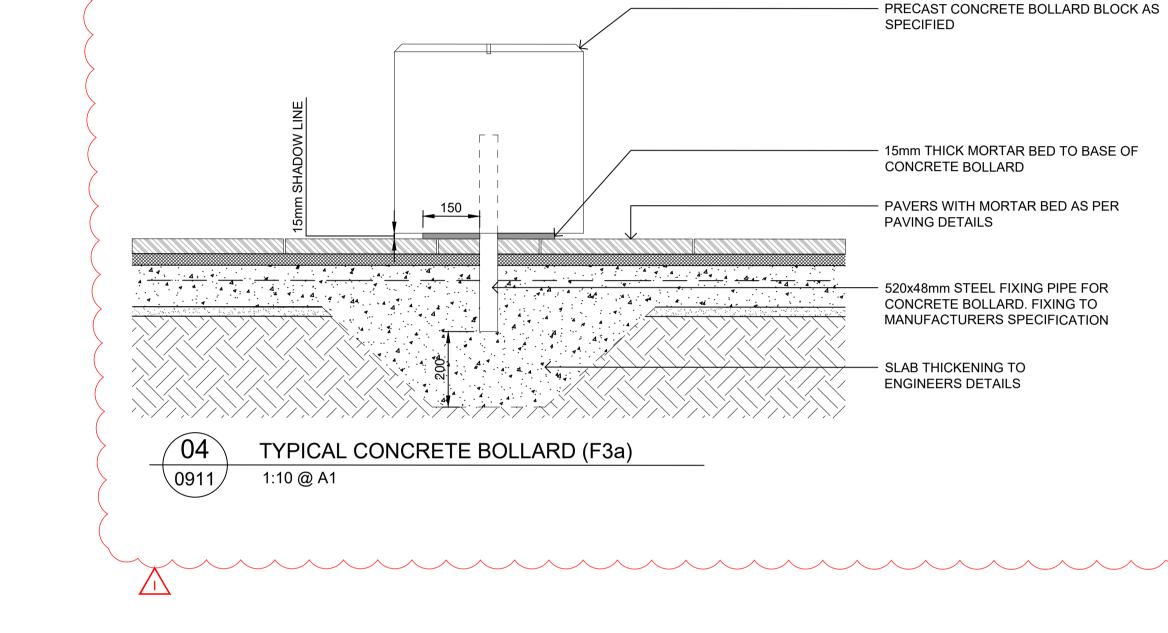
60636281-DRG-20-TCAB-LD-0306

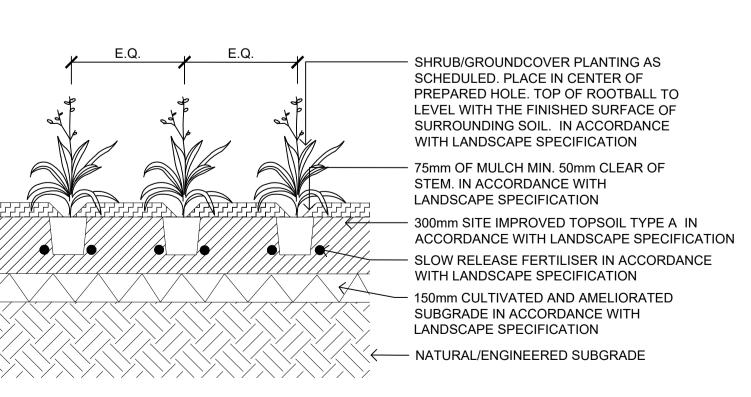


90mm x 19mm CCA HARDWOOD EDGING FIXED TO TIMBER PEGS WITH GALVANIZED NAILS IN ACCORDANCE WITH LANDSCAPE SPECIFICATION 50x50x450mm CCA TREATED PEG AT 1500mm CENTRES IN ACCORDANCE WITH LANDSCAPE SPECIFICATION

TIMBER EDGE DETAIL \0911 1:10 @ A1

1:10 @ A1





GROUNDCOVERS STAGGER MASSED PLANTING EVENLY AS SHOWN REFER TO PLANT SCHEDULE FOR DENSITIES

SMALL SHRUBS, GRASSES & ----

MASS PLANTING 75mm MULCH IN ACCORDANCE WITH LANDSCAPE SPECIFICATION

TYPICAL MASSED PLANTING DETAIL (0911)

PROJECT

THE HILLS SHIRE COUNCIL

CONSTRUCTION CERTIFICATE

DA 1542/2019/ZB

CC 85/2020/EC/A

CC APPROVED ON

11/08/2021

THE GABLES PRECINCT E TOWN CENTRE ROADS

CLIENT



133 Castlereagh Street, Sydney, 2000, Australia 02 9035 2000 tel 02 8988 2000 fax www.stockland.com.au Prepared for: Stockland Development Pty Ltd A.B.N 71 000 064 835

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		_	
	05.08.2021	CONSTRUCT	ION CERTIFICATE
Н	22.07.2021	CONSTRUCT	ION CERTIFICATE
G	04.06.2020	CONSTRUCT	ION CERTIFICATE
F	28.05.2020	CONSTRUCT	ION CERTIFICATE
Е	03.05.2020	CONSTRUCT	ION CERTIFICATE
D	16.04.2020	DRAFT CC	
I/R	DATE	DESCRIPTION	N

JB

KEY PLAN

SCALE

AS SHOWN

PROJECT NUMBER

60636281

SHEET TITLE TOWN CENTRE ROADS

DETAILS SHEET 1/8

SHEET NUMBER

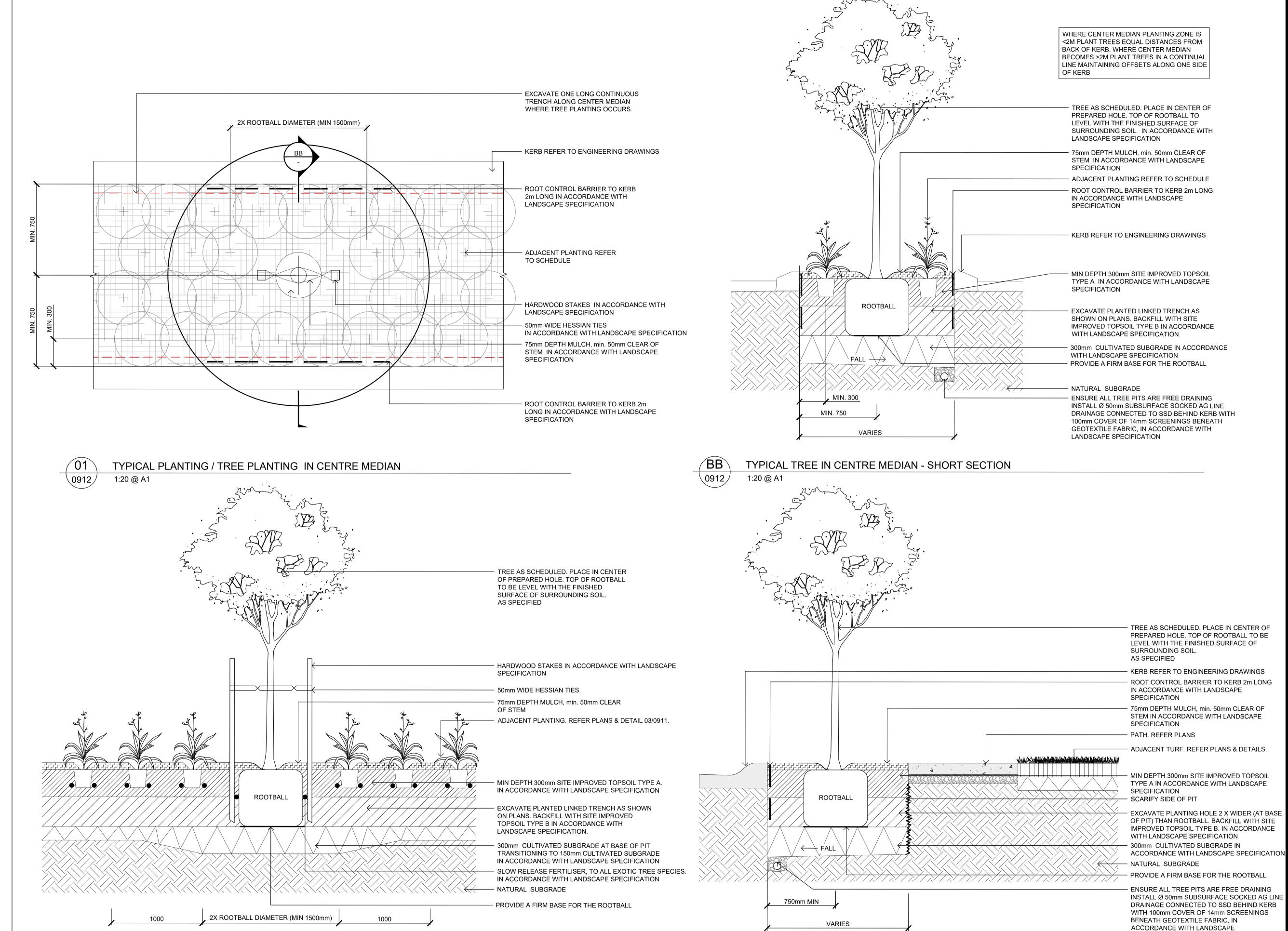
60636281-DRG-20-TCAB-LD-0911

ISSUE

NOT FOR CONSTRUCTION

TYPICAL TREE IN VERGE - LONG SECTION

1:20 @ A1





PROJECT

THE GABLES
PRECINCT E
TOWN CENTRE ROADS

CLIENT



Level 25, 133 Castlereagh Street, Sydney, 2000, Australia 02 9035 2000 tel 02 8988 2000 fax www.stockland.com.au Prepared for: Stockland Development Pty Ltd A.B.N 71 000 064 835

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THE HILLS SHIRE COUNCIL CONSTRUCTION CERTIFICATE

DA 1542/2019/ZB

CC 85/2020/EC/A

CC APPROVED ON 11/08/2021

REGISTRATION

PROJECT MANAGEMENT INITIALS

CL/HC	HC	JB
DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

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Е	03.05.2020	CONSTRUCTION CERTIFICAT
D	16.04.2020	DRAFT CC
I/R	DATE	DESCRIPTION

KEY PLAN

SCALE

AS SHOWN

PROJECT NUMBER

60636281 **SHEET TITLE**

TOWN CENTRE ROADS DETAILS

SHEET 2/8
SHEET NUMBER

ISSUE

60636281-DRG-20-TCAB-LD-0912

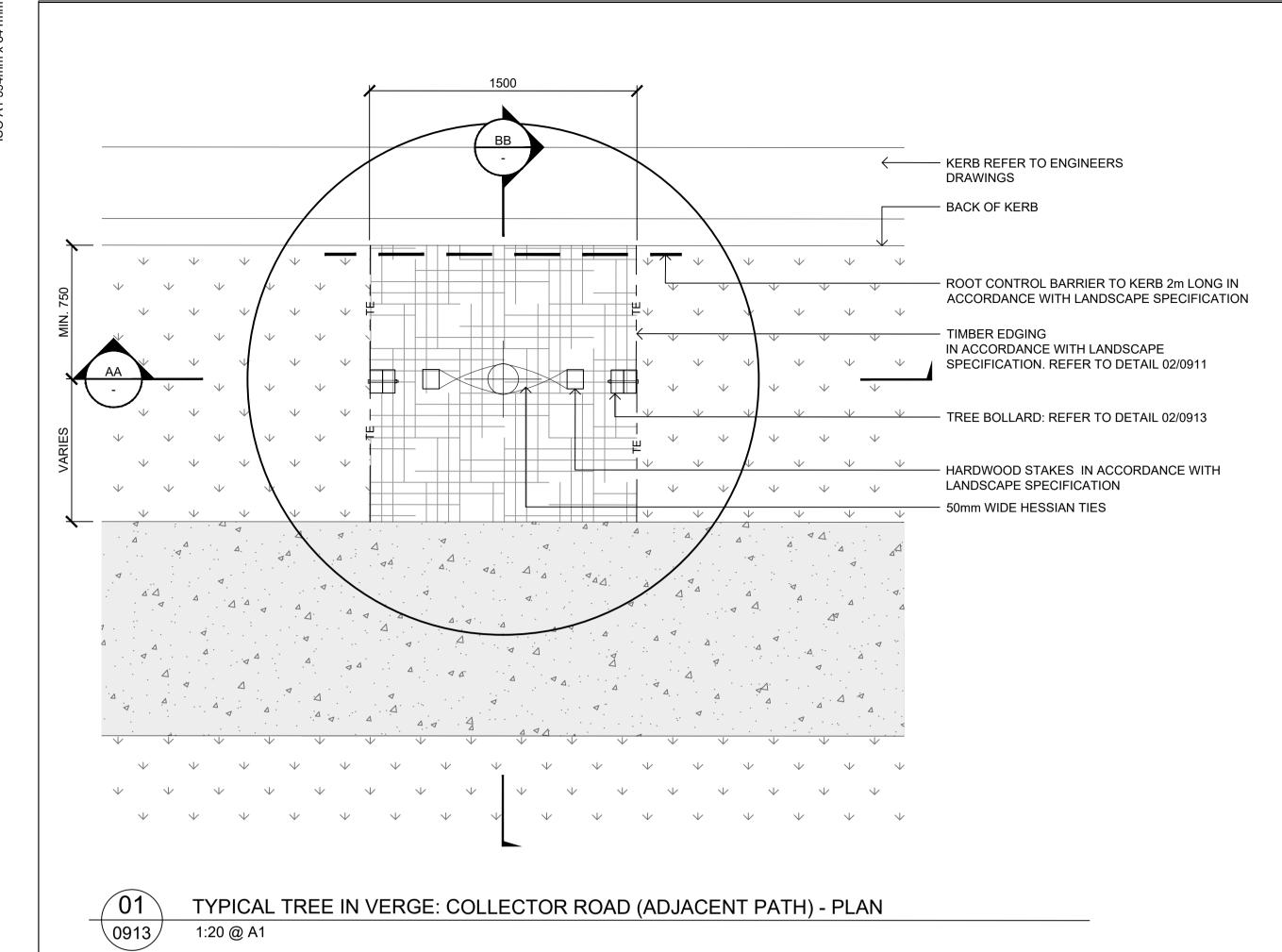
SPECIFICATION. CONNECT TO STORMWATER

TYPICAL TREE IN VERGE - SHORT SECTION

1:20 @ A1

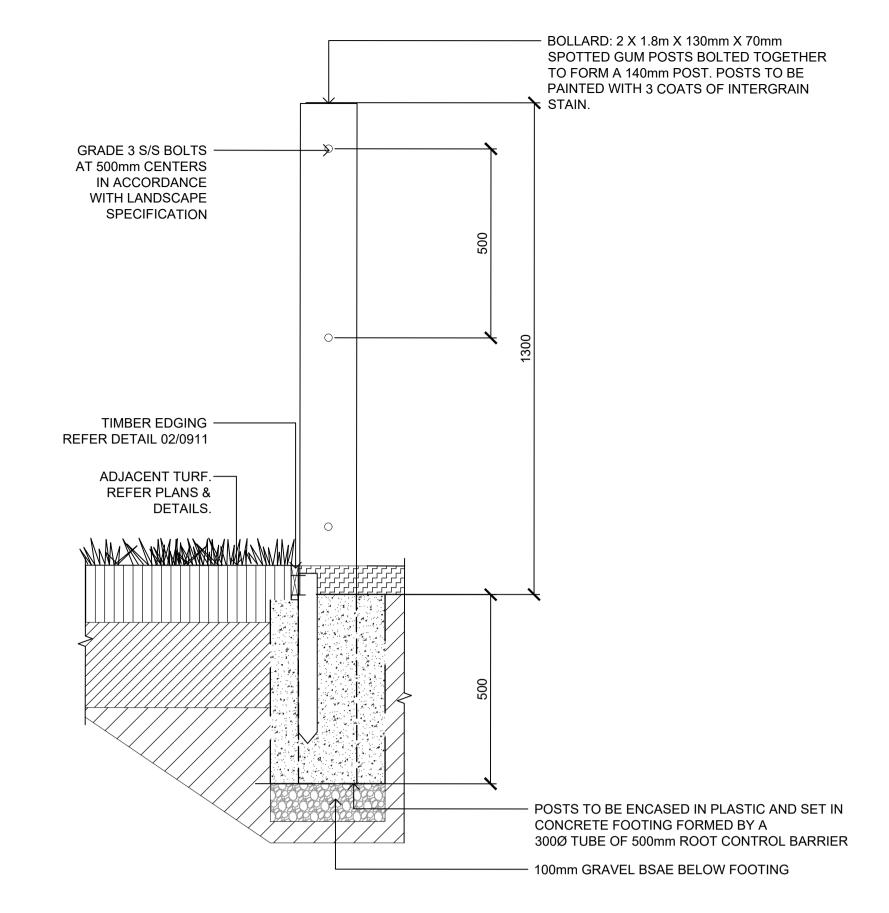
\0913/

1:20 @ A1



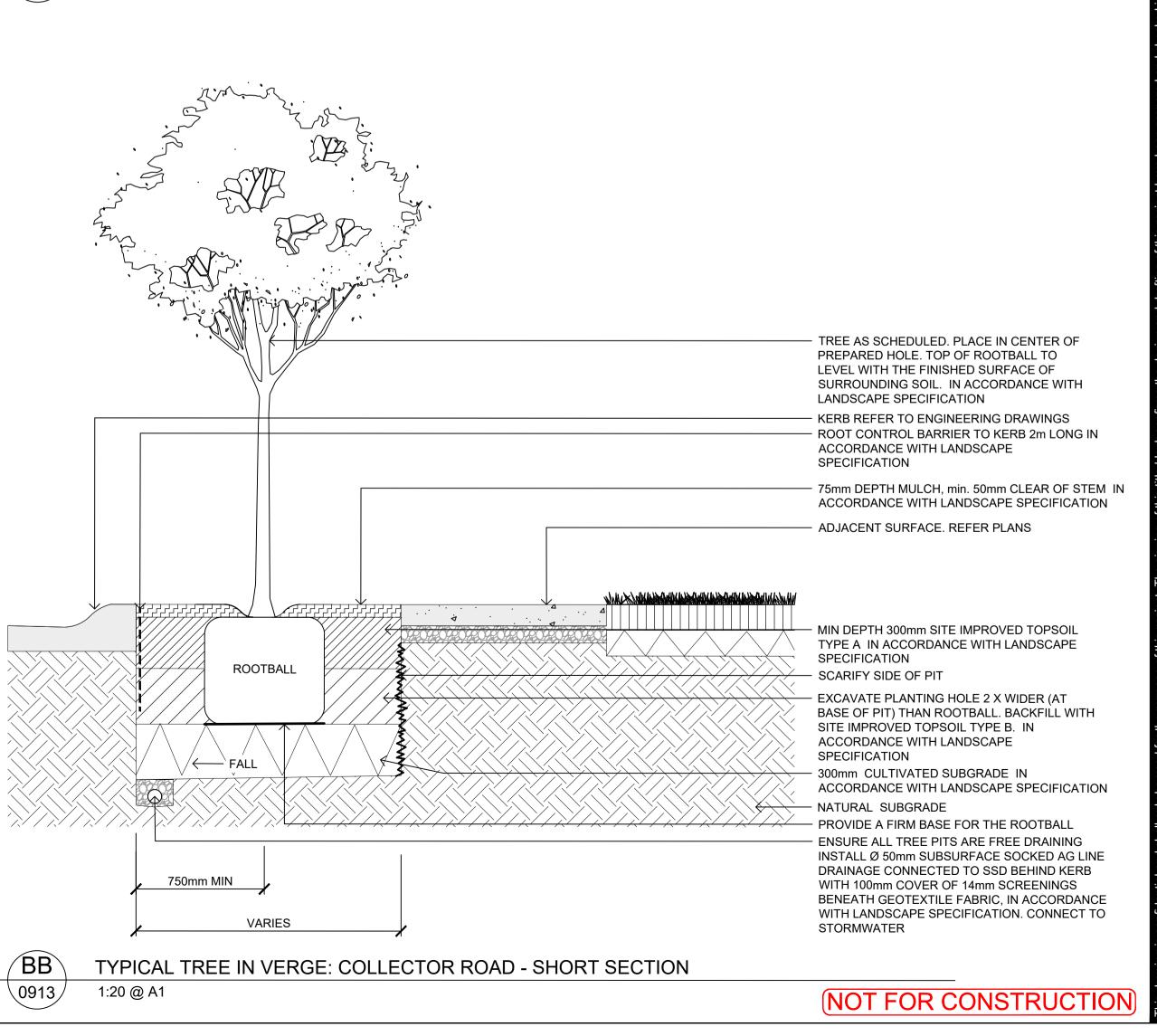
TREE AS SCHEDULED. PLACE IN CENTER OF PREPARED HOLE. TOP OF ROOTBALL TO BE LEVEL WITH THE FINISHED SURFACE OF SURROUNDING SOIL AS SPECIFIED TREE BOLLARD: REFER TO DETAIL 02/0913 HARDWOOD STAKES IN ACCORDANCE WITH LANDSCAPE SPECIFICATION 50mm WIDE HESSIAN TIES 75mm DEPTH MULCH, min. 50mm CLEAR TIMBER EDGING IN ACCORDANCE WITH LANDSCAPE SPECIFICATION. REFER TO DETAIL 02/0911 ADJACENT TURF. REFER PLANS & DETAILS. MIN DEPTH 300mm SITE IMPROVED TOPSOIL TYPE A. IN ACCORDANCE WITH LANDSCAPE SPECIFICATION ROOTBALL EXCAVATE PLANTING HOLE 2 X WIDER (AT BASE OF PIT) THAN ROOTBALL. BACKFILL WITH SITE IMPROVED TOPSOIL TYPE B. IN ACCORDANCE WITH LANDSCAPE SPECIFICATION POSTS TO BE ENCASED IN PLASTIC AND SET IN CONCRETE FOOTING FORMED BY A TUBE OF ROOT BARRIER MATERIAL 500mmX300mmØ - NATURAL SUBGRADE 300mm CULTIVATED SUBGRADE AT BASE OF PIT TRANSITIONING TO 150mm CULTIVATED SUBGRADE IN ACCORDANCE WITH LANDSCAPE SPECIFICATION SLOW RELEASE FERTILISER, TO ALL EXOTIC TREE SPECIES. IN ACCORDANCE WITH LANDSCAPE SPECIFICATION PROVIDE A FIRM BASE FOR THE ROOTBALL 2X ROOTBALL DIAMETER (MIN 1500mm)

TYPICAL TREE IN VERGE: COLLECTOR ROAD - LONG SECTION



B1 - COLLECTOR ROAD BOLLARD

1:10 @ A1





PROJECT

THE GABLES PRECINCT E TOWN CENTRE ROADS

CLIENT



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THE HILLS SHIRE COUNCIL CONSTRUCTION CERTIFICATE

DA 1542/2019/ZB

CC 85/2020/EC/A

CC APPROVED ON 11/08/2021

REGISTRATION

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CL/HC	HC	JB
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D	16.04.2020	DRAFT CC
I/R	DATE	DESCRIPTION

KEY PLAN

SCALE

AS SHOWN

PROJECT NUMBER

60636281 SHEET TITLE

TOWN CENTRE ROADS **DETAILS**

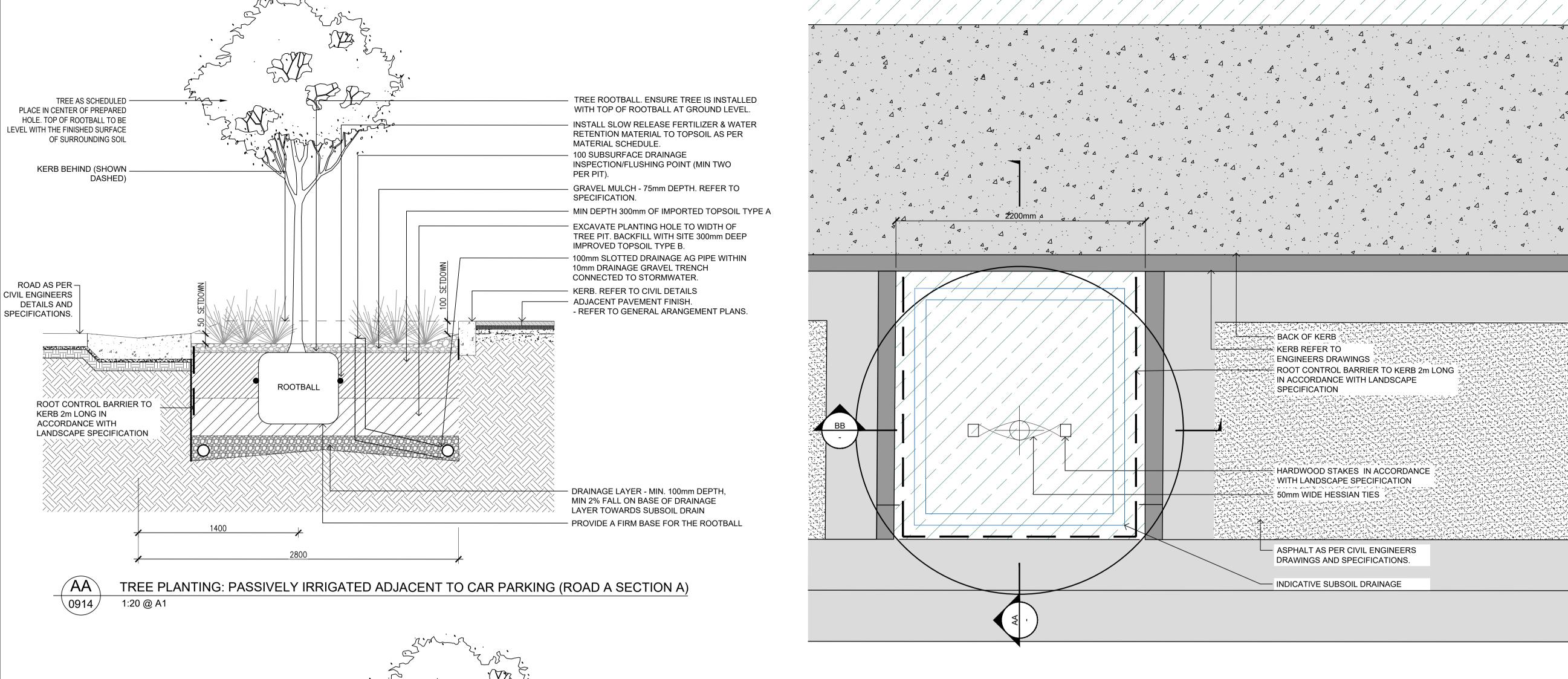
SHEET NUMBER

SHEET 3/8

60636281-DRG-20-TCAB-LD-0913

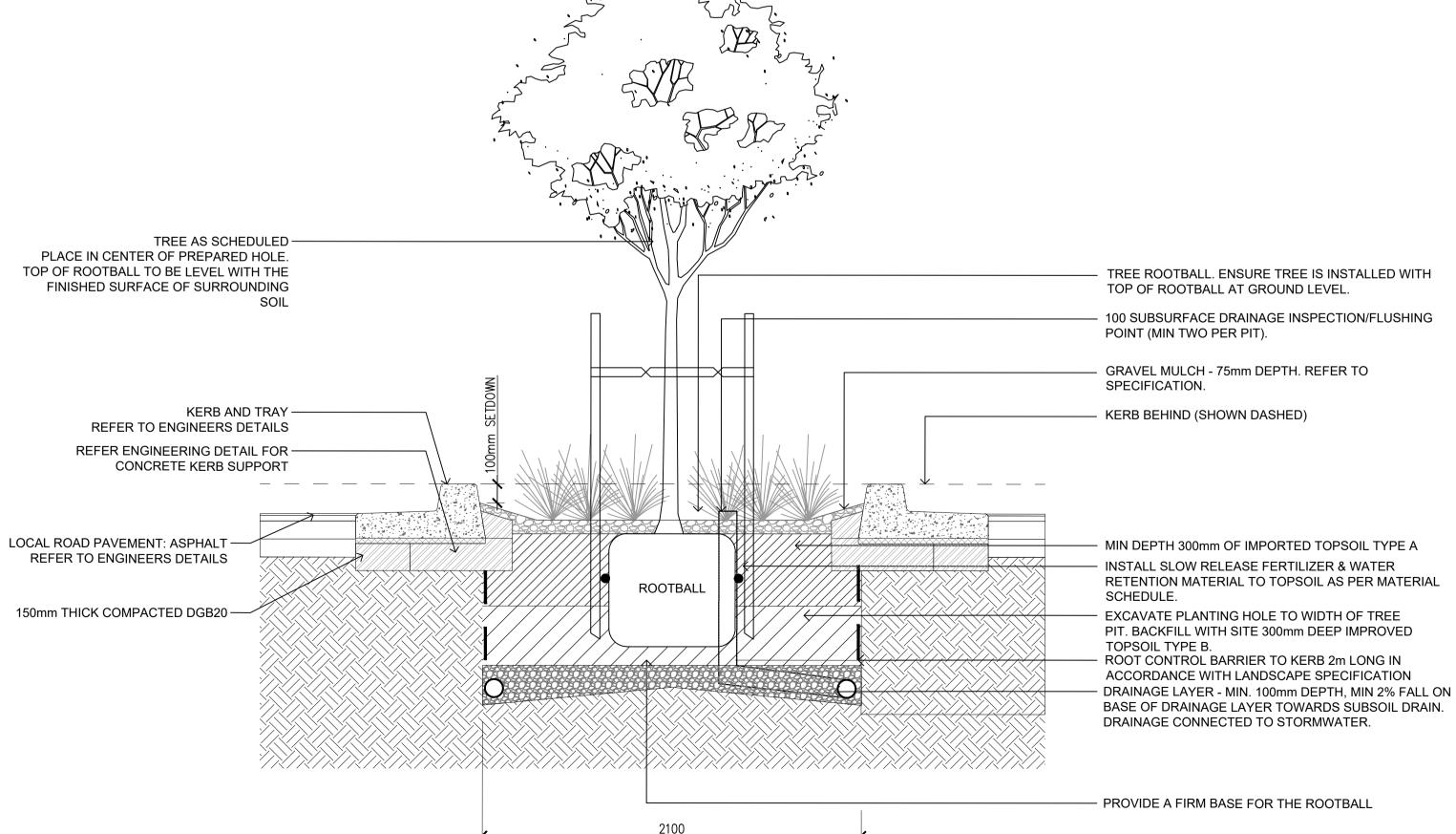
\0914

1:20 @ A1



THE HILLS SHIRE COUNCIL **CONSTRUCTION CERTIFICATE**

CC APPROVED ON



TREE PLANTING: PASSIVELY IRRIGATED ADJACENT TO CAR PARKING (ROAD A SECTION B)

PROJECT NUMBER

SHEET TITLE

TOWN CENTRE ROADS DETAILS

SHEET NUMBER

ISSUE

NOT FOR CONSTRUCTION

DA 1542/2019/ZB

CC 85/2020/EC/A

11/08/2021

PRECINCT E TOWN CENTRE ROADS

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PROJECT



THE GABLES

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F	28.05.2020	CONSTRUCTION CERTIFICATI
Е	03.05.2020	CONSTRUCTION CERTIFICATI
I/R	DATE	DESCRIPTION

KEY PLAN

SCALE

AS SHOWN

60636281

SHEET 4/8

60636281-DRG-20-TCAB-LD-0914

NOTE: REFER TO NOTES ON 60636281-DRG-20-TCAB-LD-0011 REGARDING SUBTERRANEAN SERVICES AND LOCATIONS.

CONTRACTOR TO COORDINATE WITH RAR TO DETERMINE WATER SERVICE REQUIREMENTS.

THE HILLS SHIRE COUNCIL
CONSTRUCTION CERTIFICATE

DA 1542/2019/ZB

CC 85/2020/EC/A

CC APPROVED ON
11/08/2021

TO STORMWATER

- REFER PAVING DETAILS BIDIM A34 GEOTEXTILE FABRIC OR APPROVED EQUIVALENT TO TOP SIDE OF DRAINAGE CELL ONLY - 30-50MM DRAINAGE CELL TO ALLOW FOR AIRFLOW. ENSURE DRAINAGE CELL CONNECTS TO TREE PIT AND AIRFLOW IS NOT HINDERED BY EDGE THICKENING FOR TREE GRATE INSTALLATION. LEVELING LAYER OF 5-7MM BASALT AGGREGATE - STRUCTURAL SOIL AS SPECIFIED AG LINE TO ALLOW FOR AIRFLOW - KERB REFER TO **ENGINEERING DRAWINGS VARIES** REFER ENGINEERING DRAWINGS FOR SUBSOIL DRAINAGE BEHIND KERBS 30mm COURSE WASHED RIVER O SAND REFER TO SPECIFICATION. DRAINAGE LAYER - MIN. 100mm DEPTH, MIN 2% FALL ON BASE OF DRAINAGE LAYER TOWARDS SUBSOIL DRAIN 100mm SUBSOIL DRAIN CONNECT

TO STORMWATER

REFER DETAIL PA1b - TYPICAL PAVING SECTION BIDIM A34 GEOTEXTILE FABRIC OR APPROVED EQUIVALENT TO TOP SIDE OF DRAINAGE CELL ONLY - STRUCTURAL SOIL AS SPECIFIED AG LINE TO ALLOW FOR AIRFLOW KERB REFER TO **ENGINEERING DRAWINGS VARIES** - REFER ENGINEERING DRAWINGS FOR SUBSOIL DRAINAGE BEHIND KERBS DRAINAGE LAYER - MIN. 100mm DEPTH . MIN 2% FALL ON BASE OF DRAINAGE LAYER TOWARDS SUBSOIL DRAIN 100mm SUBSOIL DRAIN CONNECT

01a 0915

0915

1:20 @ A1

TYPICAL PAVING TO KERB OVER STRUCTURAL SOIL TRENCH DETAIL - (ROAD B)

0915

1:20 @ A1

TYPICAL STRUCTURAL SOIL TRENCH UNDER VEHICLE ACCESS - (ROAD B)

ROOT CONTROL BARRIER TO KERB
ZIII LONG IN ACCORDANCE WITH
LAMDSCAPE SPICIFICATION

KERB REFER TO ENGINEERS
DRAWINGS

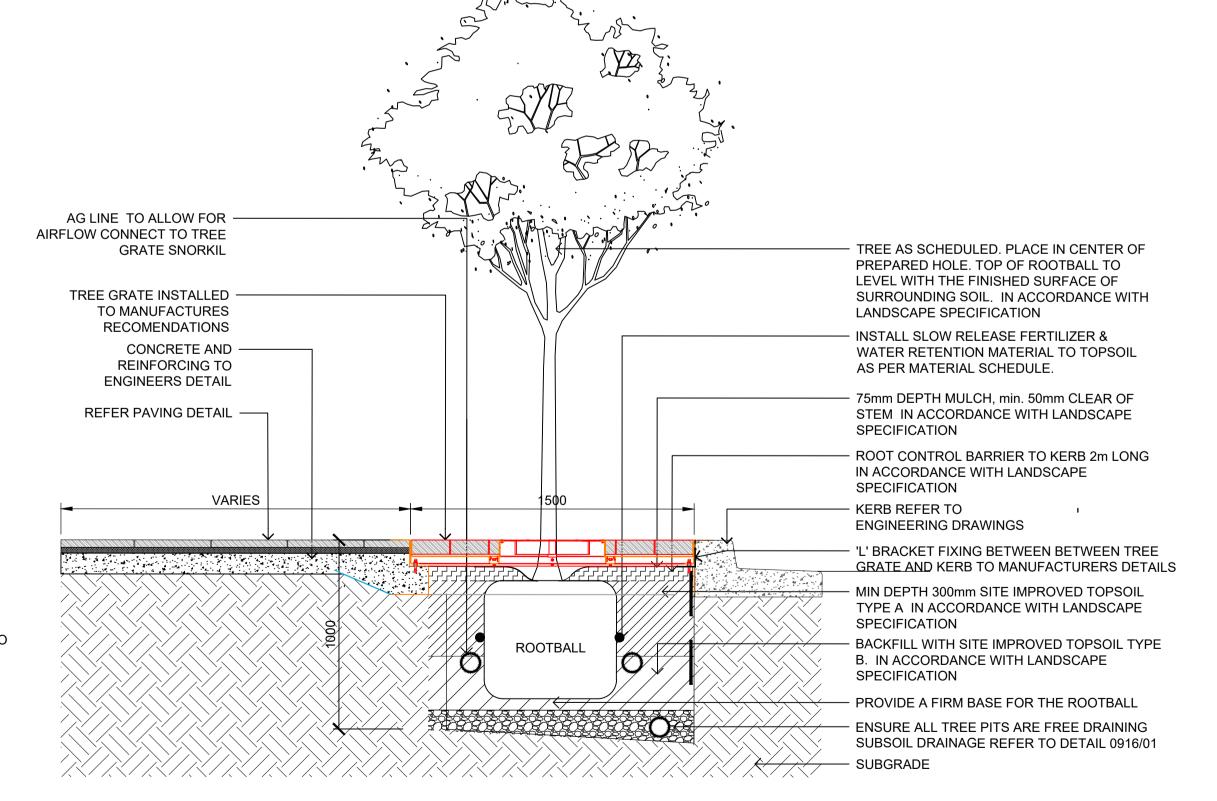
BACK OF KERB

SUB SOIL DRAINAGE

PAVING INFILL
MULCH BELOW
MULCH BELOW
STRUCTURAL SOIL AND DRAINAGE CELL
TREE GRATE

AG LINE TO ALLOW FOR AIRFLOW CONNECT TO
TREE GRATE SNORKIL

TYPICAL PAVING TO KERB OVER STRUCTURAL SOIL TRENCH DETAIL - (ROAD B)



TYPICAL TREE GRATE TO KERB OVER STRUCTURAL SOIL TRENCH DETAIL - (ROAD B)
1:20 @ A1

AECON

PROJECT

THE GABLES
PRECINCT E
TOWN CENTRE ROADS

CLIENT



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I/R	DATE	DESCRIPTION

KEY PLAN

SCALE

AS SHOWN

PROJECT NUMBER

60636281

SHEET TITLE

TOWN CENTRE ROADS DETAILS SHEET 5/8

SHEET NUMBER

60636281-DRG-20-TCAB-LD-0915



TYPICAL TURF TO KERB OVER STRUCTURAL SOIL TRENCH DETAIL - (ROAD B) 1:20 @ A1

TREE AS SCHEDULED. PLACE IN CENTER OF PREPARED HOLE. TOP OF ROOTBALL TO LEVEL WITH THE FINISHED SURFACE OF AG LINE TO ALLOW FOR AIRFLOW SURROUNDING SOIL. IN ACCORDANCE WITH LANDSCAPE SPECIFICATION - INSTALL SLOW RELEASE FERTILIZER & SCARIFY SIDE OF PIT -WATER RETENTION MATERIAL TO TOPSOIL AS PER MATERIAL SCHEDULE. STANDARD CONCRETE -PATH - CONCRETE AND 75mm DEPTH MULCH, min. 50mm CLEAR OF REINFORCING TO STEM IN ACCORDANCE WITH LANDSCAPE COUNCIL DETAILS SPECIFICATION - ROOT CONTROL BARRIER TO KERB 2m LONG IN ACCORDANCE WITH LANDSCAPE **SPECIFICATION** - KERB REFER TO **ENGINEERING DRAWINGS** MIN DEPTH 300mm SITE IMPROVED TOPSOIL TYPE A IN ACCORDANCE WITH LANDSCAPE SPECIFICATION - REFER ENGINEERING DRAWINGS FOR SUBSOIL DRAINAGE BEHIND KERBS ROOTBALL - BACKFILL WITH SITE IMPROVED TOPSOIL TYPE B. IN ACCORDANCE WITH LANDSCAPE SPECIFICATION - PROVIDE A FIRM BASE FOR THE ROOTBALL - ENSURE ALL TREE PITS ARE FREE DRAINING SUBSOIL DRAINAGE REFER TO DETAIL 0916/01 - SUBGRADE

\0916

TYPICAL TREE PLANTING IN STRUCTURAL SOIL TRENCH DETAIL - (ROAD B)

1:20 @ A1

THE HILLS SHIRE COUNCIL CONSTRUCTION CERTIFICATE

DA 1542/2019/ZB

CC 85/2020/EC/A

CC APPROVED ON 11/08/2021

ROOT CONTROL BARRIER TO KERB 2m LONG IN ACCORDANCE WITH LANDSCAPE SPECIFICATION 0915 KERB REFER TO ENGINEERS DRAWINGS BACK OF KERB - SUB SOIL DRAINAGE CONNECT TO STORMWATER TIMBER EDGING IN ACCORDANCE WITH LANDSCAPE SPECIFICATION. REFER TO DETAIL 02/0911 MULCH - STRUCTURAL SOIL AND DRAINAGE CELL AG LINE TO ALLOW FOR AIRFLOW ALLOW FOR CONNECTION TO SURFACE WITHIN TREE PIT. - HARDWOOD STAKES IN ACCORDANCE WITH LANDSCAPE SPECIFICATION - 50mm WIDE HESSIAN TIES

0916

TYPICAL TURF TO KERB OVER STRUCTURAL SOIL TRENCH PLAN - (ROAD B)

1:20 @ A1

PROJECT

THE GABLES PRECINCT E TOWN CENTRE ROADS

CLIENT



Level 25, 133 Castlereagh Street, Sydney, 2000, Australia 02 9035 2000 tel 02 8988 2000 fax www.stockland.com.au Prepared for: Stockland Development Pty Ltd A.B.N 71 000 064 835

CONSULTANT

AECOM Australia Pty Ltd A.B.N 20 093 846 925 www.aecom.com

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REGISTRATION

CL/HC

DESIGNER

PROJECT MANAGEMENT INITIALS

ISSUE/REVISION						
	Н	22.07.2021	CONSTRUCTION CERTIFICATE			
	G	04.06.2020	CONSTRUCTION CERTIFICATE			
	F	04.06.2020	CONSTRUCTION CERTIFICATE			
	I/R	DATE	DESCRIPTION			

HC

CHECKED

JB

APPROVED

KEY PLAN

SCALE

AS SHOWN

PROJECT NUMBER

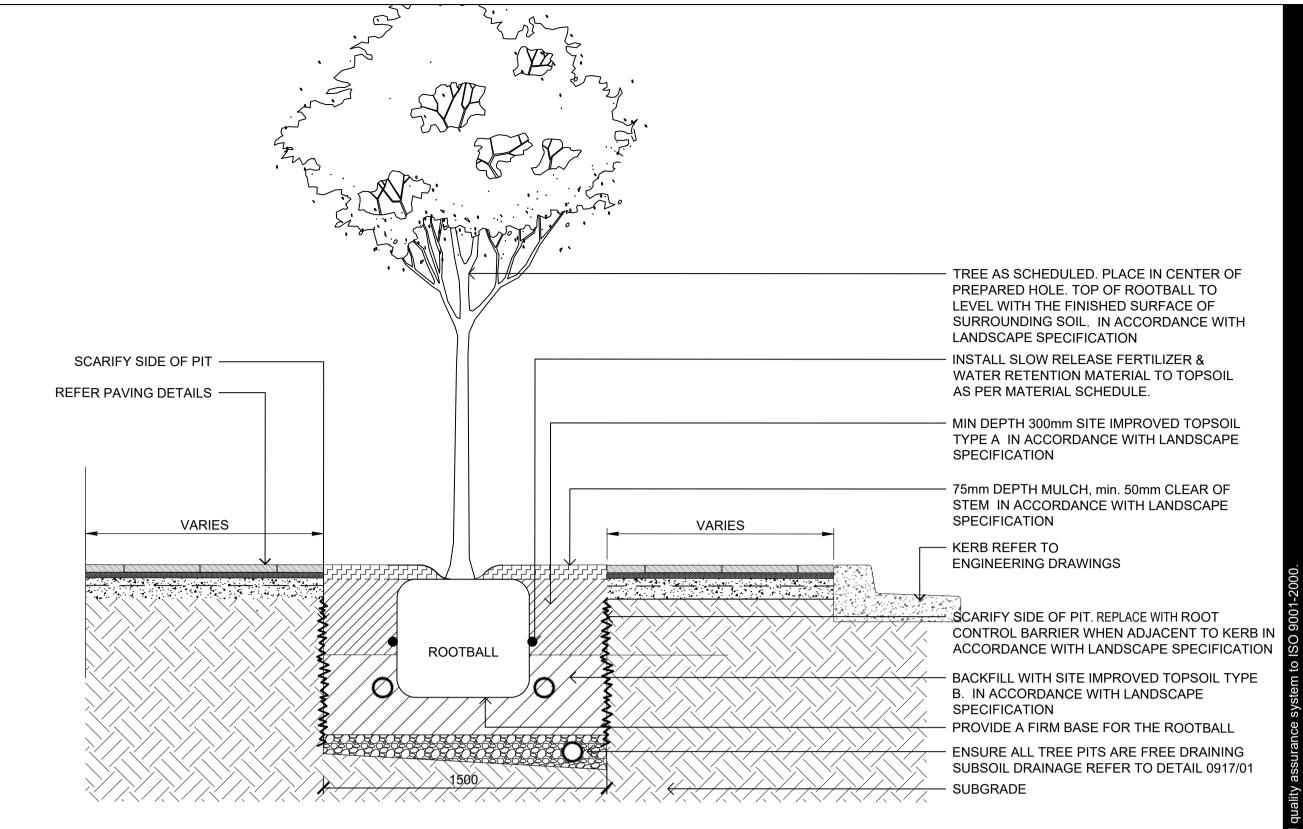
60636281

SHEET TITLE

TOWN CENTRE ROADS DETAILS SHEET 6/8

SHEET NUMBER

60636281-DRG-20-TCAB-LD-0916



0917

TYPICAL PAVING OVER STRUCTURAL SOIL TRENCH DETAIL - (FONTANA DRIVE NORTH) 1:20 @ A1

√ DRAINAGE LAYER - MIN. 100mm DEPTH ,

/ MIN 2% FALL ON BASE OF DRAINAGE

LAYER TOWARDS SUBSOIL DRAIN 100mm SUBSOIL DRAIN CONNECT

TO STORMWATER

TYPICAL TREE PLANTING IN STRUCTURAL SOIL TRENCH DETAIL - (FONTANA DRIVE NORTH) 0917 1:20 @ A1

> THE HILLS SHIRE COUNCIL CONSTRUCTION CERTIFICATE

> > DA 1542/2019/ZB

CC 85/2020/EC/A

CC APPROVED ON 11/08/2021

- PAVING - SUB SOIL DRAINAGE CONNECT TO STORMWATER - MULCH - STRUCTURAL SOIL AND DRAINAGE CELL AG LINE TO ALLOW FOR AIRFLOW ALLOW FOR CONNECTION TO SURFACE WITHIN TREE PIT. HARDWOOD STAKES IN ACCORDANCE WITH LANDSCAPE SPECIFICATION 50mm WIDE HESSIAN TIES - PAVING

TYPICAL PAVING OVER STRUCTURAL SOIL TRENCH PLAN - (FONTANA DRIVE NORTH) 0917 1:20 @ A1

PROJECT

THE GABLES PRECINCT E TOWN CENTRE ROADS

CLIENT



Level 25, 133 Castlereagh Street, Sydney, 2000, Australia 02 9035 2000 tel 02 8988 2000 fax www.stockland.com.au Prepared for: Stockland Development Pty Ltd A.B.N 71 000 064 835

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REGISTRATION

PROJECT MANAGEMENT INITIALS

I/R DATE DESCRIPTION

ISSUE/REVISION							
Н	22.07.2021	CONSTRUCTION CERTIFICATE					
G	04.06.2020	CONSTRUCTION CERTIFICATE					
G	04.06.2020	CONSTRUCTION CERTIFICATE					

CHECKED

JB

APPROVED

KEY PLAN

CL/HC DESIGNER

SCALE

AS SHOWN

PROJECT NUMBER

60636281

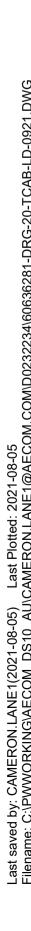
(NOT FOR CONSTRUCTION)

SHEET TITLE TOWN CENTRE ROADS

DETAILS SHEET 7/8

SHEET NUMBER

60636281-DRG-20-TCAB-LD-0917



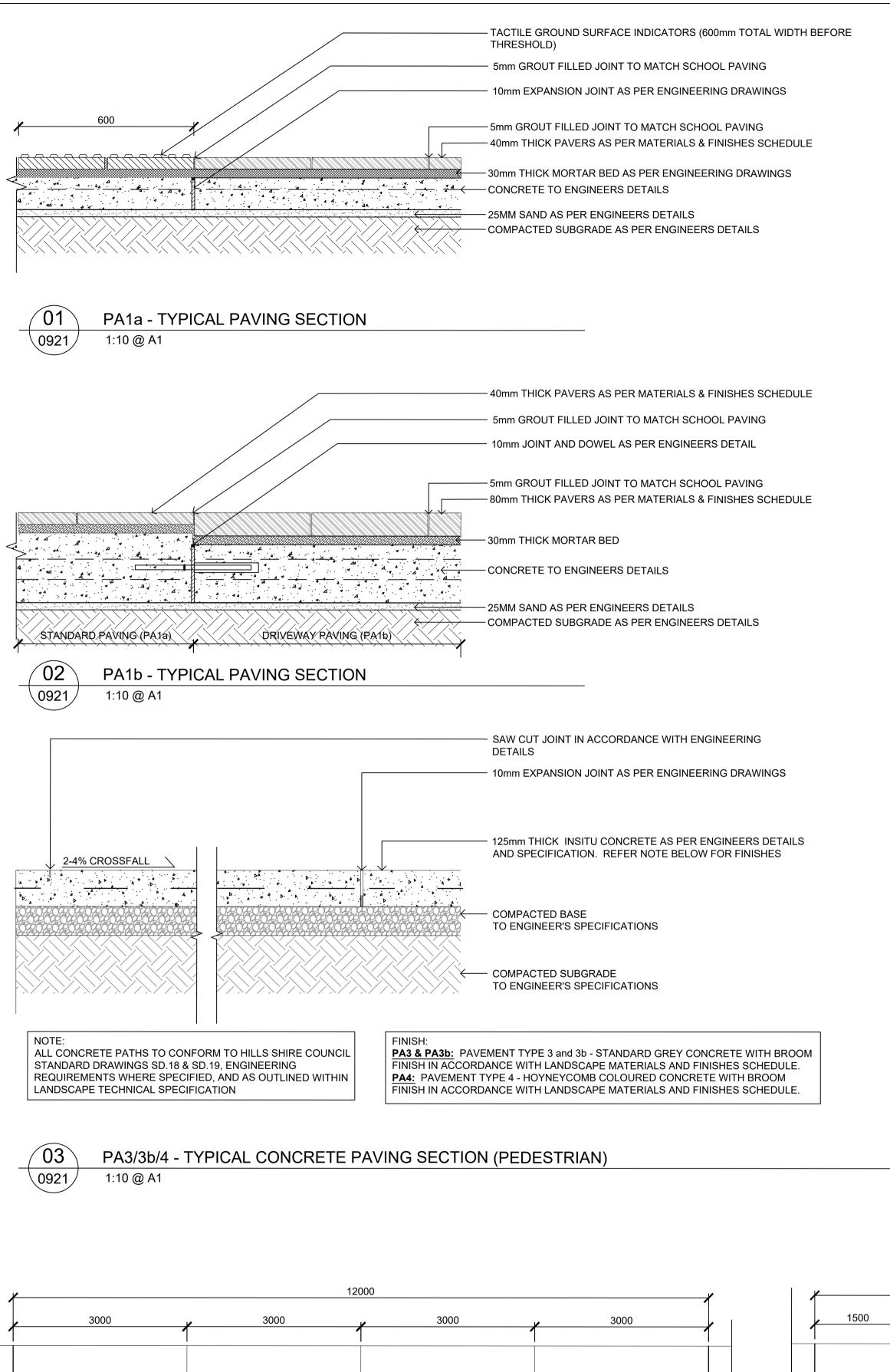
∖0921

EJ - EXPANSION JOINT (FULL DEPTH OF CONCRETE)

PAVEMENT JOINTING SETOUT PLAN - 2.5m OR GREATER CONCRETE PATH

CJ - CONTROL JOINT (25mm DEEP SAW CUT)

1:50 @ A1



⊂Stretcherbond (half stagger) Manhattar Grey Width V 15% Hudson 5% Erskine Grey / Beige Mi. x4 Paver Course 10% 10% Cathedral Flinders 25% 5% Rhodes Boston STREETSCAPES SCHOOL

PA1a/b - Typical Mix Setout

SLAB WITH ANCHOR BOLTS

— PAVERS WITH MORTAR BED AS PER PAVING DETAILS

MULCH REFER TO PLANTING DETAILS

65mm STAINLESS OR GALVANIZED STEEL Figual angle fixed to concrete base

CONCRETE TO ENGINEERS DETAILS

TOPSOIL REFER TO PLANTING DETAILS

PAVING EDGE RESTRAINT ADJACENT TO PLANTING

0921

0921

NTS

1:10 @ A1

OF COLOURS AS **INDICATED ON THE PLAN** REPRESENT THE **GREY/BEIGE MIX ONLY. FOR GREY MIX** PERCENTAGES REFER TO MATERIALS AND FINISHES SCHEDULE

NOTE: PERCENTAGE MIX

PROJECT

THE GABLES PRECINCT E TOWN CENTRE ROADS

CLIENT



Level 25, 133 Castlereagh Street, Sydney, 2000, Australia 02 9035 2000 tel 02 8988 2000 fax www.stockland.com.au Prepared for: Stockland Development Pty Ltd A.B.N 71 000 064 835

CONSULTANT

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THE HILLS SHIRE COUNCIL CONSTRUCTION CERTIFICATE

DA 1542/2019/ZB

CC 85/2020/EC/A

CC APPROVED ON 11/08/2021

REGISTRATION

CL/HC

PROJECT MANAGEMENT INITIALS

DESIGNER	CHECKED	APPROVED					
ISSUE/REVISION							

HC

JB

_	05.08.2021	CONSTRUCTION CERTIFICATE
I	22.07.2021	CONSTRUCTION CERTIFICATE
G	04.06.2020	CONSTRUCTION CERTIFICATE
I/R	DATE	DESCRIPTION

KEY PLAN

SCALE

AS SHOWN

PROJECT NUMBER

60636281

SHEET TITLE

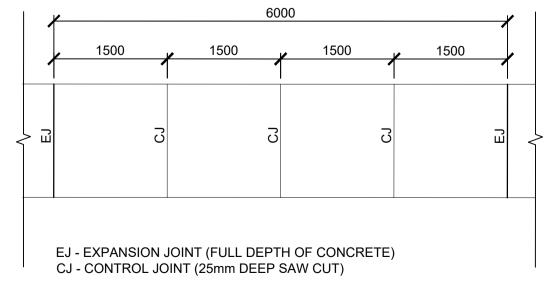
TOWN CENTRE ROADS **DETAILS**

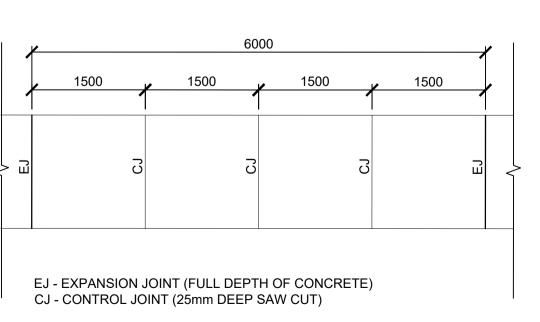
SHEET 8/8

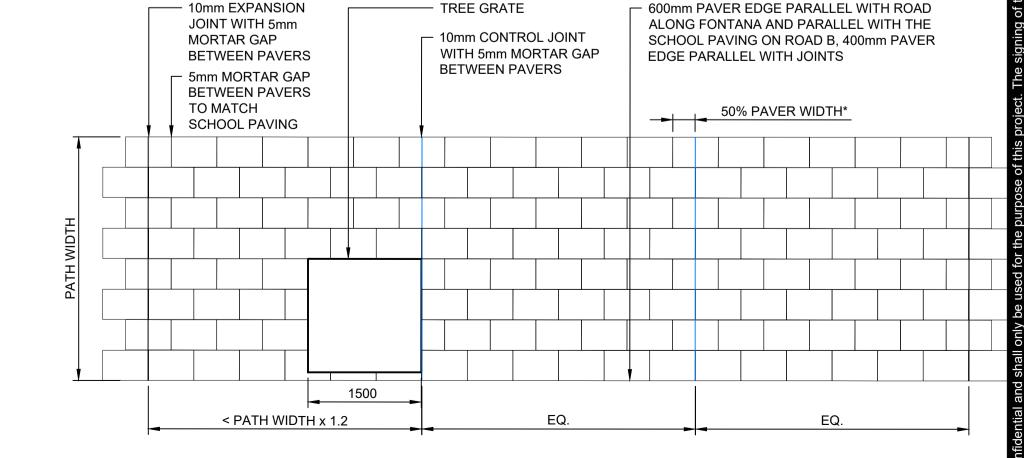
SHEET NUMBER

60636281-DRG-20-TCAB-LD-0921

ISSUE







0921

PAVEMENT JOINTING SETOUT PLAN - 1.5m CONCRETE FOOTPATH 1:50 @ A1

~07` PAVEMENT SETOUT PLAN - UNIT PAVING FOOTPATH \0921

1:50 @ A1

(NOT FOR CONSTRUCTION)

20 October 2021

The General Manager The Hills Shire Council PO Box 75 CASTLE HILL NSW 1765

Attention: Mr Michael Edgar



RE: Council Reference No. CC 59/2021/EC

CONSTRUCTION CERTIFICATION

I, Ryan Noney, of Western Earthmoving Pty Ltd, hereby certify that the road pavement and other items for this project has been constructed in accordance with the conditions of the Construction Certificate, the approved pavement design report and in accordance with The Hills Shire Council's "Works Specification Subdivisions/Developments"

Yours Faithfully, WESTERN EARTHMOVING PTY LTD,

Ryan Noney Project Manager rnoney@wem.com.au



THE HILLS SHIRE COUNCIL CONSTRUCTION CERTIFICATE DA 29/2020/HA CC 59/2021/EC **CC APPROVED ON**

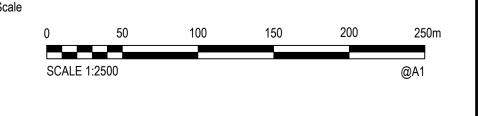


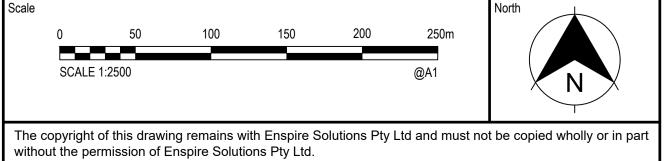
THE GABLES TOWN CENTRE TEMPORARY CARPARK CONSTRUCTION CERTIFICATE

DRAWING SCH	<u>IEDULE</u>
DRAWING NO.	DESCRIPTION
180004-TCTP-CC-C01.01	COVER SHEET AND DRAWING SCHEDULE
180004-TCTP-CC-C01.21	GENERAL NOTES AND LEGEND SHEET 01
180004-TCTP-CC-C01.22	GENERAL NOTES AND LEGEND SHEET 02
180004-TCTP-CC-C01.41	GENERAL ARRANGEMENT PLAN
180004-TCTP-CC-C03.01	EROSION AND SEDIMENTATION CONTROL PLAN
180004-TCTP-CC-C03.21	EROSION AND SEDIMENTATION CONTROL DETAILS
180004-TCTP-CC-C04.01	BULK EARTHWORKS CUT AND FILL PLAN
180004-TCTP-CC-C04.21	CUT AND FILL SECTIONS - SHEET 01
180004-TCTP-CC-C04.22	CUT AND FILL SECTIONS - SHEET 02
180004-TCTP-CC-C05.01	SITEWORKS AND STORMWATER MANAGEMENT PL
180004-TCTP-CC-C06.01	SETOUT PLAN
180004-TCTP-CC-C11.01	PAVEMENT, SIGNAGE AND LINEMARKING PLAN
180004-TCTP-CC-C14.01	SITEWORKS DETAILS SHEET 01
180004-TCTP-CC-C14.02	SITEWORKS DETAILS SHEET 02
180004-TCTP-CC-C17.01	STORMWATER LONGITUDINAL SECTIONS
180004-TCTP-CC-C20.01	STORMWATER CATCHMENT PLAN
180004-TCTP-CC-C22.01	TURNING PATH PLAN
180004-TCTP-CC-C23.01	ZONE OVERLAY PLAN

							С
4	19/01/2021	ISSUED FOR CONSTRUCTION CERTIFICATE	CWH	RH	-	RH	
3	27/05/2020	ISSUED FOR CONSTRUCTION CERTIFICATE	CWH	RH	-	RH	l
2	22/05/2020	ISSUED FOR 80% CONSTRUCTION CERTIFICATE	MHE	AL		RH	
1	22/01/2020	ISSUED FOR 80% CONSTRUCTION CERTIFICATE	EZ	AL	-	RH	
REV.	. DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.	L







		Scale 1
	enspire	Date 22/
	Enspire Solutions Pty Ltd 205/275 Alfred Street N, North Sydney NSW 2060	Size
art	ABN: 71 624 801 690 Phone: 02 9922 6135	Datum

0	Scale 1:2500	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION		
	Date 22/01/2020			
	Size A1	Project Number/Drawing Number	Re	
	Datum	180004-TC-CC-C01.01		

ACCESS AND SAFETY

- THE CONTRACTOR SHALL COMPLY WITH ALL STATUTORY AND INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.
- THE CONTRACTOR SHALL PROVIDE TRAFFIC MANAGEMENT PLANS FOR THE PROPOSED WORKS COMPLETED BY A SUITABLY QUALIFIED PERSON AND APPROVED BY COUNCIL / REGULATORY AUTHORITY WORK IS NOT TO COMMENCE ON SITE PRIOR TO APPROVAL OF TRAFFIC MANAGEMENT SCHEME.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO BUILDINGS ADJACENT THE WORKS IS NOT DISRUPTED.
- WHERE NECESSARY THE CONTRACTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE
- 5. THE CONTRACTOR SHALL ENSURE PUBLIC ACCESS EXTERNAL TO THE SITE IS IN ACCORDANCE WITH COUNCILS REQUIREMENTS.

SURVEY

- THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN SUPPLIED BY REGISTERED SURVEYORS TO PROVIDE A BASIS FOR DESIGN. THE USE OF THIS SURVEY BASE DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.
- SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT THE DESIGN ENGINEER.
- THE RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES ARE DIAGRAMMATIC ONLY, WHERE DISTANCES AT BOUNDARY ARE CRITICAL THEY SHOULD BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION BY FURTHER SURVEY.

SEDIMENT AND SOIL EROSION

- THE SEDIMENT & EROSION CONTROL PLAN PRESENTS CONCEPTS ONLY. THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE ESTABLISHMENT & MANAGEMENT OF A DETAILED SCHEME TO COUNCILS SATISFACTION, OTHER REGULATORY AUTHORITY REQUIREMENTS AND PAY ALL FEES
- THE CONTRACTOR SHALL INSTIGATE ALL SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH STATUTORY REQUIREMENTS AND IN PARTICULAR THE 'BLUE BOOK' (MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION), PRODUCED BY LANDCOM AND COUNCILS POLICIES. THESE MEASURES ARE TO BE INSPECTED AND MAINTAINED ON A DAILY BASIS.
- THE CONTRACTOR SHALL INFORM ALL SUB CONTRACTORS OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.
- 4. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE SHALL BE KEPT AS LOW AS POSSIBLE TO THIS END, WORKS SHOULD BE
- UNDERTAKEN IN THE FOLLOWING SEQUENCE; 4.1.CONSTRUCT TEMPORARY STABILISED SITE ACCESS INCLUSIVE OF SHAKE DOWN / WASH PAD
- 4.2.INSTALL ALL TEMPORARY SEDIMENT FENCES AND BARRIER FENCES. WHERE FENCES ADJACENT EACH OTHER, THE SEDIMENT ENCE CAN BE INCORPORATED INTO THE BARRIER FENCE 4.3.INSTALL SEDIMENT CONTROL MEASURES AS OUTLINED ON THE APPROVED PLANS.
- UNDERTAKE SITE DEVELOPMENT WORKS SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF MINIMUM WORKABLE SIZE.
- 6. AT ALL TIMES AND IN PARTICULAR DURING WINDY AND DRY WEATHER. LARGE UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL ENSURING CONFORMITY TO REGULATORY AUTHORITY REQUIREMENTS.
- ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) SHALL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
- WATER SHALL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN STABILISED AND/OR ANY LIKELY SEDIMENT BEEN FILTERED OUT.
- 9. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES SHALL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE STABILISED / REHABILITATED.
- 10. ALLOW FOR GRASS STABILISATION OF EXPOSED AREAS, OPEN CHANNELS AND BATTERS ON COMPLETION OF CONSTRUCTION.
- 11. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED TO ENSURE THAT THEY OPERATE EFFECTIVELY. REPAIRS AND/OR MAINTENANCE SHALL BE UNDERTAKEN REGULARLY AND AS REQUIRED, PARTICULARLY FOLLOWING RAIN EVENTS.
- 12. RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER SHALL BE DISPOSED OF IN ACCORDANCE WITH REGULATORY AUTHORITY REQUIREMENTS. CONTRACTOR TO PAY ALL FEES AND PROVIDE EVIDENCE OF SAFE DISPOSAL.
- 13. IF A TEMPORARY SEDIMENT BASIN IS REQUIRED. ENSURE SAFE BATTER SLOPES IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. MAINTAIN ADEQUATE STORAGE VOLUME IN ACCORDANCE WITH PLANS. TEMPORARILY PUMP 'CLEAN FLOCCULATED' WATER FOR SITE DUST CONTROL. WHERE APPROVED BY COUNCIL. PUMPED WATER MAY BE DISCHARGED TO COUNCIL'S STORMWATER SYSTEM. ENSURE WHOLE SITE RUN-OFF IS DIRECTED TO TEMPORARY SEDIMENT BASIN.

DESCRIPTION

27/05/2020 ISSUED FOR CONSTRUCTION CERTIFICATE

V. DATE

2 | 22/05/2020 | ISSUED FOR 80% CONSTRUCTION CERTIFICATE

22/01/2020 ISSUED FOR 80% CONSTRUCTION CERTIFICATE

EXISTING SERVICES

- ALL UTILITY SERVICES INDICATED ON THE DRAWINGS ORIGINATE FROM SUPPLIED DATA OR DIAL BEFORE YOU DIG SEARCHES, THEREFORE THEIR ACCURACY AND COMPLETENESS IS NOT GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND CONFIRM THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE PRINCIPALS REPRESENTATIVE. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY. NOTE SERVICE AUTHORITY REQUIREMENTS FOR LOCATING OF SERVICES PRIOR TO COMMENCEMENT OF WORKS.
- 2. CARE TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER COMMUNICATION, GAS OR ELECTRICAL SERVICES. HAND EXCAVATION ONLY IN THESE AREAS.
- THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING SERVICES THAT ARE TO BE RETAINED IN THE VICINITY OF THE PROPOSED WORKS. ANY AND ALL DAMAGE TO THESE SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE PRINCIPALS REPRESENTATIVE AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR THE ADJUSTMENT (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS.
- THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS UNLESS DIRECTED OTHERWISE ON THE DRAWINGS OR BY THE PRINCIPALS REPRESENTATIVE.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED AND MAINTAINED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF THE PROGRAM FROM THE RELEVANT AUTHORITY AND PRINCIPALS REPRESENTATIVE FOR THE RELOCATION AND/OR CONSTRUCTION OF TEMPORARY SERVICES AND FOR ANY ASSOCIATED INTERRUPTION OF SUPPLY.
- THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE PRINCIPALS REPRESENTATIVE.

EARTHWORKS

- AT THE COMMENCEMENT OF FILLING OPERATIONS FOR BULK EARTHWORKS A GEOTECHNICAL ENGINEER IS TO VISIT THE SITE & CONFIRM THE SUITABILITY OF THE METHODOLOGY OF ACHIEVING THE REQUIRED COMPACTION REQUIREMENTS.
- STRIP TOPSOIL, VEGETABLE MATTER AND RUBBLE TO EXPOSE NATURALLY OCCURRING MATERIAL AND STOCKPILE ON SITE AS DIRECTED BY THE PRINCIPALS REPRESENTATIVE.
- WHERE FILLING IS REQUIRED TO ACHIEVE DESIGN SUBGRADE, PROOF OF A NON-VIBRATING/STATIC ROLLER (MINIMUM STATIC WEIGHT OF 10 TONNES) IN THE PRESENCE OF THE PRINCIPALS REPRESENTATIVE.
- THE CONTRACTOR IS TO ALLOW FOR A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER TO PROVIDE ADVICE AND CERTIFICATION OF ANY WORKS ASSOCIATED WITH TREATING OR MANAGING UNSUITABLE GROUND CONDITIONS THROUGHOUT THE CONTRACT (e.g. STABILITY OF EXCAVATIONS, POOR SUBGRADE, etc).
- ALL SOFT. WET OR UNSUITABLE MATERIAL IS TO BE REMOVED AS DIRECTED BY THE PRINCIPALS REPRESENTATIVE AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS BELOW.
- 6. PROVIDE CERTIFICATES VERIFYING THE QUALITY OF IMPORTED MATERIAL FOR THE PRINCIPALS REPRESENTATIVE APPROVAL.
- ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200mm THICK LAYERS (LOOSE) AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ ACHIEVE A DRY DENSITY DETERMINED IN ACCORDANCE WITH AS1289.2.1.1, AS1289.5.7.1 AND AS1289.5.8.8 OF NOT LESS THAN THE FOLLOWING STANDARD MINIMUM DRY DENSITY

LANDSCAPED AREAS COUNCIL SPECIFICATIONS) PAVED AREAS

COUNCIL SPECIFICATIONS)

COMPACTION REQUIREMENT 95% SMDD 100% SMDD (IN ACCORDANCE WITH

100% SMDD (IN ACCORDANCE WITH

- 8. TESTING OF THE SUBGRADE FOR BUILDINGS SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A. REGISTERED LABORATORY.
- ALLOW THE FOLLOWING COMPACTION TESTING BY N.A.T.A. GISTERED LABORATORY FOR PLATFORMS AND FILL LAYERS IF CORDANCE WITH THE LATEST VERSION OF AS3798. (MINIMUM 3 ESTS PER LAYER) OR 1 TEST PER MATERIAL TYPE PER 2500sg.m OR 1
- 10. WHERE TEST RESULTS ARE BELOW THE SPECIFIED COMPACTION, RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION STANDARDS ARE ACHIEVED, OTHERWISE SUBGRADE REPLACEMENT IS REQUIRED IF COMPACTION STANDARDS ARE NOT ACHIEVED.
- ALLOW FOR EXCAVATION IN ALL MATERIALS AS FOUND U.N.O. NO ADDITIONAL PAYMENTS WILL BE MADE FOR EXCAVATION IN WET OR
- 12. WHERE THERE IS INSUFFICIENT EXCAVATED MATERIAL SUITABLE FOR FILLING OR SUBGRADE REPLACEMENT, THE CONTRACTOR IS TO ALLOW TO IMPORT FILL. IMPORTED FILL SHALL COMPLY WITH THE FOLLOWING; 12.1. BE OF VIRGIN EXCAVATED NATURAL MATERIAL OR 12.2. CONTRACTOR TO PROVIDE EVIDENCE IMPORT IS SUITABLE USE 12.3. PLASTICITY INDEX BETWEEN 2-15% AND CBR > 8

12.4. FREE FROM ORGANIC AND DELETERIOUS MATTER 12.5. MAXIMUM SIZE 50mm, PASSING 75 MICRON SIEVE (<25%)

EARTHWORKS (cont)

- 13. THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLERS MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED AT THEIR COST.
- 14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE AND MAINTAIN THE INTEGRITY OF ALL SERVICES. CONDUITS AND PIPES DURING CONSTRUCTION, SPECIFICALLY DURING THE BACKFILLING AND COMPACTION PROCEDURE. ANY AND ALL DAMAGE TO NEW OR EXISTING SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PRINCIPALS REPRESENTATIVE.
- 15. TESTING OF THE SUBGRADE SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A. REGISTERED LABORATORY AT THE CONTRACTORS EXPENSE.

- 16. PRIOR TO THE COMMENCEMENT OF EXCAVATION WORKS GREATER THAN 1.5m IN DEPTH, THE CONTRACTOR SHALL CONFIRM WITH A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER TO DETERMINE THE TABILITY OF A NATURAL MATERIAL AND BENCHING REQUIREMENTS
- 17. THE CONTRACTOR MUST PROVIDE THE PRINCIPALS REPRESENTATIVE AND THE DESIGN ENGINEER WITH A COPY OF THE GEOTECHNICAL ENGINEERS REPORT
- 18. THE CONTRACTOR IS TO PROVIDE SAFETY BARRIERS / FENCING IN ACCORDANCE WITH OH&S AND REGULATORY AUTHORITY REQUIREMENTS.

SERVICE TRENCHES

- 19. SAWCUT EXISTING SURFACES PRIOR TO EXCAVATION. BACKFILL ALL TRENCHES UNDER EXISTING ROADS, PAVEMENTS AND PATHS WITH STABILISED SAND 5% CEMENT OR DGS40 MATERIAL (100% SMDD) COMPACTED IN 200mm THICK LAYERS TO 98% MMDD TO UNDERSIDE OF PAVEMENT
- 20. BACKFILL ALL TRENCHES NOT UNDER ROADS, PAVEMENTS, PATHS AND BUILDINGS WITH APPROVED EXCAVATED OR IMPORTED MATERIAL COMPACTED TO 95% SMDD.

SITEWORKS

- ALL WORKS TO BE IN ACCORDANCE WITH RELEVANT LOCAL COUNCIL / REGULATORY AUTHORITIES REQUIREMENTS, ALL TECHNICAL SPECIFICATIONS AND AUSTRALIAN STANDARDS. CONFLICTS BETWEEN SAID DOCUMENTS SHALL BE REFERRED TO THE PRINCIPALS REPRESENTATIVE FOR DIRECTION.
- THE CONTRACTOR IS TO DESIGN, OBTAIN APPROVALS AND CARRY OUT REQUIRED TEMPORARY TRAFFIC CONTROL PROCEDURES DURING CONSTRUCTION IN ACCORDANCE WITH ALL REGULATORY AUTHORITIES, INCLUSIVE OF LOCAL COUNCIL REGULATIONS AND REQUIREMENTS.
- THE CONTRACTOR IS TO ENSURE ALL AUTHORITY APPROVALS ARE OBTAINED PRIOR TO COMMENCEMENT OF WORKS.
- RESTORE ALL PAVED, COVERED, GRASSED AND LANDSCAPED AREAS TO THEIR ORIGINAL CONDITION OR AS DIRECTED BY THE PRINCIPALS REPRESENTATIVE ON COMPLETION OF WORKS. WHERE PLANTING OF NEW GRASS IS NECESSARY REFER TO LANDSCAPE ARCHITECT AND / OR ARCHITECT DOCUMENTATION.
- 5. ON COMPLETION OF ANY TRENCHING WORKS, ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR AS DIRECTED BY THE PRINCIPALS REPRESENTATIVE, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL, GRASSED AREAS AND ROAD PAVEMENTS.
- 6. THE CONTRACTOR SHALL CONFIRM ALL SURVEY SETOUT BY A REGISTERED SURVEYOR PRIOR TO COMMENCEMENT OF WORKS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING LEVELS ONSITE PRIOR TO LODGMENT OF TENDER AND ONSITE WORKS. THE PRICE AS TENDERED SHALL BE INCLUSIVE OF ALL WORKS SHOWN ON THE TENDER PROJECT DRAWINGS. ADDITIONAL PAYMENTS FOR WORKS SHOWN ON THE TENDER PROJECT DRAWINGS WILL NOT BE
- 8. DO NOT OBTAIN DIMENSIONS BY SCALING DRAWINGS.
- 9. IN CASE OF DOUBT OR DISCREPANCY REFER TO PRINCIPALS REPRESENTATIVE FOR CLARIFICATION OR CONFIRMATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 10. WHERE NEW WORKS ABUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED. MAKE SMOOTH TRANSITION TO EXISTING FEATURES AND MAKE GOOD WHERE JOINED.
- 11. TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MIN 50mm IN
- 12. ALL CIVIL ENGINEERING DESIGN HAS BEEN DOCUMENTED UNDER THE ASSUMPTION THAT ALL NECESSARY SITE CONTAMINATION REMEDIATION WORKS HAVE BEEN SATISFACTORILY COMPLETED (IF APPLICABLE) AND THAT THE SITE IS NOT AFFECTED BY ANY SOIL STRATA OR GROUNDWATER TABLE CONTAMINATION.

STORMWATER DRAINAGE

- ALL PIPES SHALL BE CLASS 2 RUBBER-RING JOINTED RCP U.N.O. WHERE uPVC PIPES HAVE BEEN SPECIFIED, THE FOLLOWING CLASS PIPEWORK IS TO BE ADOPTED U.N.O. Ø100mm OR LESS TO BE CLASS 'SN10' AND ABOVE Ø100mm TO BE CLASS 'SN8'.
- FRC PIPES EQUAL TO THAT OF THE STEEL REINFORCED CONCRETE PIPE CLASS SPECIFIED ON THE DRAWINGS MAY BE USED SUBJECT TO APPROVAL FROM THE PRINCIPALS REPRESENTATIVE.
- 3. ALL PIPE ARE TO BE LAID AT 1.0% MIN GRADE U.N.O.
- 4.1. USE HOT DIPPED GALVANISED COVERS AND GRATES COMPLYING WITH RELEVANT COUNCIL AND AUSTRALIAN STANDARDS. 4.2. ALL COVERS AND GRATES TO BE POSITION IN A FRAME AND
- MANUFACTURED AS A UNIT. 4.3. ALL COVERS AND GRATES TO BE FITTING WITH POSITIVE COVER
- LIFTING KEYS 4.4. UNLESS DETAILED OR SPECIFIED OTHERWISE, COVERS AND GRATES TO BE CLASS 'D' IN VEHICULAR PAVEMENTS AND CLASS 'B'
- ELSEWHERE. 4.5. ALL GRATED TRENCH DRAINS SHOULD BE 'CLASS D' GAL STEEL WITHIN VEHICULAR PAVEMENTS AND CLASS 'B' HEEL SAFE WITHIN PEDESTRIAN PAVEMENTS.
- 5. ALL PIPE BENDS, JUNCTIONS, ETC ARE TO BE PROVIDED USING PURPOSE MADE FITTINGS OR STORMWATER PITS.
- 6. ALL CONNECTIONS TO EXISTING DRAINAGE STRUCTURES SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
- STORMWATER PIPEWORK TO FINISH FLUSH WITH INTERNAL PIT WALLS AND MUST NOT PROTRUDE. CONNECTION TO BE NEATLY RENDER AND MADE NEAT.
- THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
- U.N.O. MATERIAL USED FOR BEDDING OF PIPES SHALL BE APPROVED NON-COHESIVE GRANULAR MATERIAL HAVING HIGH PERMEABILITY AND HIGH STABILITY WHEN SATURATED AND FREE OF ORGANIC AND CLAY MATERIAL.
- 10. WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN 50mm CONCRETE BED (OR 75mm THICK BED OF 12mm BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK.
- BEDDING SHALL BE U.N.O TYPE HS2 UNDER ROADS AND H2 UNDER GENERAL AREAS IN ACCORDANCE WITH CURRENT RELEVANT INDUSTRY STANDARDS AND GUIDELINES.
- 12. THE CONTRACTOR SHALL ENSURE AND PROTECT THE INTEGRITY OF ALL STORMWATER PIPES DURING CONSTRUCTION. ANY AND ALL DAMAGE TO THESE PIPES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE PRINCIPALS REPRESENTATIVE AND AT NO COST TO THE PRINCIPALS REPRESENTATIVE.
- 13. NOTE THAT THE PIT COVER LEVEL NOMINATED IN GUTTERS ARE TO THE INVERT OF THE GUTTER WHICH ARE 40mm LOWER THAN THE PAVEMENT LEVEL AT LIP OF GUTTER. REFER KERB DETAILS FOR CONFIRMATION.

SUBSOIL DRAINAGE

- 14. SUBSOIL DRAINAGE LINES TO COUNCIL SPECIFICATIONS SHALL BE CONNECTED TO A STORMWATER DRAINAGE PIT (AT MIN 1% LONGITUDINAL GRADE) AND PROVIDED IN THE FOLLOWING LOCATIONS: 14.1. THE HIGH SIDE OF PROPOSED TRAFFICKED PAVEMENT AREAS. 14.2. ALL PLANTER AND TREE BEDS PROPOSED ADJACENT TO PAVEMENT
- 14.3. BEHIND RETAINING WALLS (IN ACCORDANCE WITH RETAINING WALL
- DETAILS) 14.4. ALL OTHER AREAS SHOWN ON DRAWINGS. 14.5. CONTRACTOR IS TO MAKE ALLOWANCE IN BOTH TENDER AND
- CONSTRUCTION COSTING TO ALLOW FOR SUBSURFACE DRAINAGE BEHIND ALL RETAINING WALLS / ABOVE LOCATIONS AND TO MAKE CONNECTION TO STORMWATER SYSTEM.
- 15. WHERE SUBSOIL DRAINAGE PASSES BENEATH BUILDINGS / PAVED AREAS AND/OR PAVEMENTS. CONTRACTOR TO ENSURE Ø100mm CLASS 'SN10' uPVC UNSLOTTED DRAINAGE LINE IS USED AND THAT PROPRIETARY FITTINGS ARE USED TO RECONNECT SUBSOIL DRAINAGE
- 16. THE CONTRACTOR SHALL INSTALL INSPECTION OPENINGS / CLEAROUTS TO ALL SUBSOIL DRAINAGE LINES AND DOWNPIPE LINES AS SPECIFIED ON DRAWINGS AND IN ACCORDANCE WITH COUNCIL SPECIFICATIONS AT MAXIMUM 30m CENTRE AND AT ALL UPSTREAM ENDPOINTS.
- 17. PROVIDE 2m LENGTH OF Ø100 SUBSOIL DRAINAGE LINE WRAPPED IN NON-WOVEN GEOTEXTILE FILTER FABRIC TO THE UPSTREAM SIDE OF STORMWATER PITS, LAID IN STORMWATER PIPE TRENCHES AND CONNECTED TO DRAINAGE PIT.
- 18. IN AREAS WHERE DUMPED / HAND PLACED ROCK IS USED AS A MEANS OF SCOUR PROTECTION, CONTRACTOR IS TO EXCAVATE A MINIMUM OF 100mm FROM PROPOSED SURFACE, LEVEL AND COMPACT SUBGRADE AS SPECIFIED. ROCK TO THEN BE PLACED ON GEOTEXTILE FILTER FABRIC.

PRECAST STORMWATER PITS

- THE USE OF PRE-CAST STORMWATER PITS MAY BE PERMITTED WHERE THEY COMPLY WITH THE HILLS SHIRE COUNCIL STANDARD STRUCTURAL DETAILS AND SPECIFICATION. THE USE OF PRE-CAST PITS FOR NON-STANDARD DESIGN ELEMENTS WILL NOT BE ACCEPTED WITHOUT APPROVAL FROM THE PRINCIPAL'S REPRESENTATIVE.
- REFER MANUFACTURERS SPECIFICATIONS FOR INSTALLATION GUIDELINES.
- PRECAST PIT TO BE PLACED ON MINIMUM 150mm THICK CONCRETE PAD AND BED MINIMUM 50mm WHILST CONCRETE IS STILL PARTIALLY WET.
- 4. ENSURE PENETRATION IS CORED THROUGH PIT FACE TO ALLOW CONNECTION.
- ENSURE A SMOOTH SEALED FINISH AT PIPE CONNECTIONS BY HAND APPLYING CONCRETE AROUND THE PIPE ON THE INTERNAL FACE OF THE PIT TO FILL IN ANY VOIDS CREATED WHEN PENETRATION FOR THE PIPE WAS CORED.
- ENSURE A SEALED FINISH AT PIPE CONNECTIONS BY HAND-APPLYING MINIMUM 150mm THICK CONCRETE AROUND PIPE AT THE EXTERNAL FACE OF THE PIT. ENSURE CONCRETE DOES NOT AFFECT THE INTEGRITY OF THE SUBSOIL DRAINAGE CONNECTED TO THE PIT.
- ENSURE PIPEWORK DOES NOT PROTRUDE INTO THE PIT BEYOND THE WALL, PIPEWORK IS TO FINISH FLUSH WITH INTERNAL WALL (UNLESS OTHERWISE NOTED OR DETAILED).
- 8. FILL THE BASE OF THE PIT WITH MASS CONCRETE (MIN 50mm THICK) OR APPROVED GROUTING COMPOUND (LESS THAN 50mm THICK) TO MATCH THE INVERT OF THE MAIN INLET AND OUTLET PIPES. ENSURÉ ADEQUATE BOND BETWEEN PIT BASE AND BENCHING
- PROVIDE CONCRETE BENCHING TO SIDES OF PIT TO SUIT PIPE DIAMETER. HEIGHT TO MATCH MINIMUM 1/3 PIPE DIAMETER.

SIGNAGE AND LINEMARKING

- . ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AUSTRALIAN STANDARDS 1742 / RMS STANDARDS AND SPECIFICATIONS.
- 2. LINE MARKING AND PAINT SHALL BE IN ACCORDANCE WITH AS1742.3 AND RMS STANDARDS.
- 3. PAINT SHALL BE TYPE 3 CLASS 'A' AND THE COLOUR SHALL BE WHITE AND NOT SUBJECT TO DISCOLOURATION BY BITUMEN FROM ROAD SURFACE. ALL PAINT TO BE APPLIED BY MECHANICAL SPRAYER.
- 4. LINE MARKING SHALL BE SPOTTED OUT AND APPROVED PRIOR TO SPRAYING BY PRINCIPALS REPRESENTATIVE
- 5. PAINT SHALL BE APPLIED AT A WET THICKNESS OF BETWEEN 0.35mm AND 0.40mm.
- 6. CARPARK LINEMARKING TO BE 80mm WIDE.

LANDSCAPING

- REFER TO DRAWINGS BY OTHERS FOR DETAILS OF PROPOSED LANDSCAPING TREATMENT.
- ALL DISTURBED SURFACE TO BE TEMPORARILY STABILISED WITH HYDROMULCH UPON COMPLETION OF WORKS. A 500mm STRIP OF TURF (CT2 COUCH) IS TO BE PLACED BEHIND ALL NEW KERB AND GUTTER / ROLL KERB.

PAVEMENTS

- ALL PAVEMENT MATERIALS SHALL COMPLY WITH THE CURRENT HILLS SHIRE COUNCIL SPECIFICATIONS. PROVIDE MECHANICAL ANALYSIS FOR EACH BATCH OF PAVEMENT MATERIAL TO ENSURE CONFORMITY.
- 98% MODIFIED MAXIMUM DRY DENSITY
- 95% MODIFIED MAXIMUM DRY DENSITY SUBGRADE 100% STANDARD MAXIMUM DRY DENSITY THE CONTRACTOR SHALL CONFIRM THE DESIGN CBR WITH A MINIMUM
- FOUND, CONTACT THE PRINCIPALS REPRESENTATIVE. ALLOW FOR COMPACTION TESTING BY A N.A.T.A. REGISTERED LABORATORY FOR BASE LAYER, SUBBASE LAYER AND SUBGRADE LAYER IN ACCORDANCE WITH THE LATEST VERSION OF AS3798 FOR PAVEMENTS (ALLOW 1 TEST EVERY 50m OF PAVEMENT TAKEN 1m FROM

OF 3 TESTS TAKEN AT SUBGRADE LEVEL. WHERE DISCREPANCY IS

THE FACE OF KERB ON THE ALTERNATE SIDES OF PAVEMENT). ALLOW

- FOR AT LEAST TWO SUCCESSFUL COMPACTION TESTS IN EACH LAYER. 5. MATCH NEW PAVEMENTS NEATLY AND FLUSH WITH EXISTING
- AFTER BASE IS APPROVED, SWEEP CLEAN AND PRIME AT NOMINAL RATE OF 1.0L PER 1.0 sq.m.
- SUB-GRADE PROOF ROLL PRIOR TO SET-UP AND FORM FOR CONCRETE POUR.

THE GABLES TOWN CENTRE

TEMPORARY CARPARK

INSPECTION OF FORMWORK / STEEL PRIOR TO CONCRETE POUR. SUBMISSION OF SUB-GRADE AND BASE DENSITY TESTS.

ASPHALTIC CONCRETE

ALL ASPHALTIC CONCRETE (AC) WORK TO BE PREPARED AND CARRIED OUT IN ACCORDANCE WITH GOOD ASPHALTIC PAVING PRACTICE AS DESCRIBED IN AS2150 "ASPHALT (HOT-MIXED) PAVING - GUIDE TO GOOD PRACTICE" AND CURRENT RMS

- 2.1. THE FINISHED PAVEMENT SURFACE TO BE SEALED SHALL BE WITHIN +/- 2% OF THE OPTIMUM MOISTURE CONTENT AND BROOMED BEFORE COMMENCEMENT OF WORK TO ENSURE COMPLETE REMOVAL OF ALL SUPERFICIAL FOREIGN MATTER.
- PRIME ALL SURFACES TO BE SEALED. ALLOW PRIME TO SETTLE FOR A MINIMUM OF 3 DAYS BEFORE APPLYING TACK COAT AND ASPHALT. SWEEP PRIMED SURFACES BEFORE APPLYING TACK COAT.
- ALL DEPRESSIONS OR UNEVEN AREAS ARE TO BE TACK-COATED AND BROUGHT UP TO GENERAL LEVEL OF PAVEMENT WITH ASPHALTIC CONCRETE BEFORE LAYING OF MAIN COURSE. ALL DEFECTS IN THE BASE COURSE INCLUDING CRACKS,

SURFACE DEFORMATION AND THE LIKE SHALL BE REPAIRED AS DIRECTED BY THE PRINCIPALS REPRESENTATIVE PRIOR TO

ALL ASPHALT SHALL BE PLACED UTILISING APPROVED MECHANICAL PAVING MACHINES, DO NOT HAND PLACE ASPHALT WITHOUT PRIOR APPROVAL FROM ENGINEER.

PLACEMENT OF TACK COAT AND/OR AC COURSES.

- THE NUMBER OF JOINTS BOTH LONGITUDINAL AND TRANSVERSE
- SHALL BE KEPT TO A MINIMUM. THE DENSITY AND SURFACE FINISH AT JOINTS SHALL BE SIMILAR TO THOSE OF THE REMAINDER OF THE LAYER.

- ALL COMPACTION SHALL BE UNDERTAKEN USING SELF PROPELLED ROLLERS.
- INITIAL ROLLING SHALL BE COMPLETED BEFORE THE MIX TEMPERATURE FALLS BELOW 105°C USING A STEEL DRUM ROLLER HAVING A MINIMUM WEIGHT OF 8 TONNES AND A MAXIMUM UNIT LOAD ON THE REAR DRUM EQUIVALENT TO 55kN/m
- WIDTH OF DRUM. SECONDARY ROLLING SHALL BE COMPLETED BEFORE THE MIX TEMPERATURE FALLS BELOW 80°C USING A PNEUMATIC TYRED ROLLER OF AT LEAST 10 TONNES MASS. A MINIMUM TYRE PRESSURE OF 550kPA AND A MINIMUM TOTAL LOAD OF 1 TONNE
- ON EACH TYRE. ROLLED SURFACES SHALL BE SMOOTH AND FREE OF JNDULATIONS. BONY AND/OR UNEVEN SURFACES WILL BE
- PROVIDE 2 No. MINIMUM COMPACTION TESTS
- 6. FINISHED SURFACE PROPERTIES

ENGINEER.

- FINISHED SURFACES SHALL BE SMOOTH, DENSE AND TRUE OF
- SHAPE AND SHALL NOT VARY MORE THAN; 3mm FROM THE SPECIFIED PLAN LEVEL AT ANY POINT. 6.1.2. 3mm FROM THE BOTTOM OF A STRAIGHT EDGE LAID
- TRANSVERSELY. 6.1.3. 5mm FROM THE BOTTOM OF A STRAIGHT EDGE LAID

MINUS 0 TO PLUS 2mm ADJACENT TO OTHER ELEMENTS SUCH

AS KERBS AND THE LIKE TO AVOID POOLING OF SURFACE

6.1.5. MINUS 0 FROM THE SPECIFIED THICKNESS.

LONGITUDINALLY.

- . DO NOT STORE PLANT EQUIPMENT OR TRAFFIC NEWLY LAID ASPHALTIC CONCRETE PAVEMENTS WITHOUT PRIOR APPROVAL FROM THE
- 8. DO NOT APPLY MARKING PAINTS UNTIL ASPHALT HAS CURED IN ACCORDANCE WITH PAINT MANUFACTURERS SPECIFICATIONS.

THE HILLS SHIRE COUNCIL CONSTRUCTION CERTIFICATE

DA 29/2020/HA

CC 59/2021/EC CC APPROVED ON

1/02/2021

NOT TO BE USED FOR CONSTRUCTION

CWH RH MHE AL DRN. DES. VERIF. APPL





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ONSTRUCTION CERTIFICATE

GENERAL NOTES AND LEGENDS SHEET 01

22/01/2020

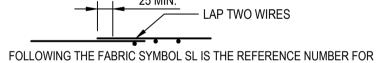
FOR APPROVAL

CONCRETE PAVEMENTS

- THIS SECTION REFERS TO CIVIL CONCRETE WORKS AND DOES NOT INCLUDE STRUCTURAL ELEMENTS SUCH AS BUILDINGS, BELOW GROUND STRUCTURES OR RETAINING WALLS.
- 2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- CONCRETE QUALITY AND REINFORCING COVER ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	CONCRETE STRENGTH fc (MPa)	SPECIFIED SLUMP	NOMINAL AGGREGATE SIZE	MAX. 56 DAY DRYING SHRINKAGE	COVER (mm)
KERBS AND PATHS	25	60	20	650microns	TOP 40
PITS AND VEHICULAR PAVEMENTS	32	80	20	650microns	TOP 40

- 4. CONCRETE PROPERTIES SHALL BE VARIED FROM NORMAL CLASS AS **FOLLOWS**
- 4.1. MINIMUM CEMENT CONTENT 250 kg/m³
- MAXIMUM 56 DAY SHRINKAGE STRAIN = AS NOMINATED ABOVE PRIOR TO COMMENCEMENT CONCRETE SUPPLIER TO PROVIDE DRYING SHRINKAGE TEST RESULTS FROM PRODUCTION ASSESSMENT AS EVIDENCE THAT SPECIFIED DRYING SHRINKAGE LIMITS CAN BE ACHIEVED USING NORMAL MIX DESIGN.
- 5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS. PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- 6. CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL.
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379. TEST CYLINDERS ARE TO BE KEPT ON SITE.
- 8. ALL COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO THE PRINCIPALS REPRESENTATIVE FOR REVIEW.
- 9. ALL CONCRETE IS TO BE CONTINUOUSLY CURED FOR A MINIMUM PERIOD OF 10 DAYS AFTER PLACING. CURING TO COMMENCE IMMEDIATELY AFTER FINISHING. SPRAY ON CURING COMPOUNDS TO COMPLY WITH AS3799.
- 10. PLACE CONCRETE CONTINUOUSLY BETWEEN CONSTRUCTION JOINTS SHOWN ON PLAN. DO NOT BREAK OR INTERRUPT SUCCESSIVE POURS SUCH THAT COLD JOINTS OCCUR. ANY REVISIONS OR ADDITIONS TO CONSTRUCTION JOINTS SHOWN ON PLAN REQUIRE APPROVAL FROM THE CIVIL ENGINEER.
- 11. FALLS IN SLAB AS SHOWN ON PLAN MAINTAIN MINIMUM SLAB THICKNESS AS SHOWN.
- 12. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY THE PRINCIPALS REPRESENTATIVE.
- 13. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENOUS MASS. COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS.
- 14. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:



- FABRIC TO AS1304.
- 15. POLYETHYLENE SHEET SHALL BE PLACED BELOW ALL CONCRETE
- 16. ALL PENETRATIONS TO HAVE 2/N12 TRIMMER BARS TOP AND BOTTOM TO EACH FACE U.N.O. EXTEND TRIMMERS 700 BEYOND PENETRATION. MAINTAIN 40mm COVER TOP AND BOTTOM.
- 17. FORMWORK CLASS SHALL BE IN ACCORDANCE WITH AS3600.

18. SURFACE FINISHES: STORMWATER PIT

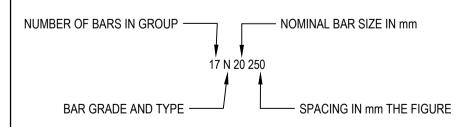
MACHINE FLOAT / BROOM FINISH STEEL FLOAT / TROWEL

19. REINFORCEMENT SYMBOLS:

PAVEMENTS

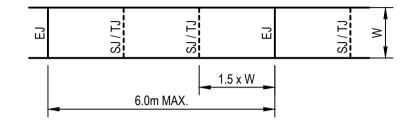
KERBS

- N DENOTES GRADE 450 N BARS TO AS1302 GRADE N DENOTES 230 R HOT ROLLED PLAIN BARS TO AS1302
- DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS1304

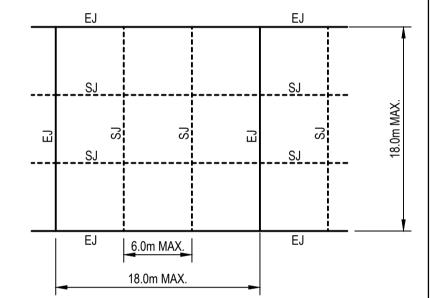


PAVEMENT JOINTS

- PROVIDE 10mm ABLEFLEX BETWEEN NEW CONCRETE WORKS AND EXISTING STRUCTURES.
- LOCAL AUTHORITY REQUIREMENTS SHALL TAKE PRECEDENCE WITHIN THE PUBLIC ROAD RESERVE.
- B. DOWELS TO BE PLACED ON PROPRIETARY CRADLES TO ENSURE CORRECT SPACING AND ALIGNMENT.
- ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS U.N.O. ON THE DESIGN DRAWINGS.
- EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES.
- WEAKENED PLANE JOINTS (SAWN OR TOOL JOINTS) ARE TO BE LOCATED AT A MAX. SPACING OF 1.5m x WIDTH OF THE PAVEMENT.
- WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS.
- TYPICAL PEDESTRIAN PAVEMENT JOINT DETAIL



- ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS U.N.O. ON THE DESIGN DRAWINGS.
- 10. TIED KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED LONGITUDINALLY AT A MAX. OF 6.0m CENTRES.
- 11. SAWN JOINTS SHOULD GENERALLY BE LOCATED LATERALLY AT A MAX. OF 6.0m CENTRES WITH DOWELED EXPANSION JOINTS AT MAX. 18.0m
- 12. TYPICAL VEHICULAR PAVEMENT JOINT DETAIL.



- 13. KERB EXPANSION JOINTS SHALL BE FORMED FROM 10mm ABLEFLEX FOR FULL DEPTH OF SECTION.
- 14. KERB EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS,
- TANGENT POINTS OF CURVES / CORNERS AND AT 12m MAX CENTRES. 15. KERB TOOLED JOINTS TO BE MIN 3mm WIDE AND LOCATED AT MAX 3m
- 16. INTEGRAL KERB JOINTS SHALL MATCH THE LOCATION OF PAVEMENT JOINTS.

CONCRETE

- CARRY OUT ALL CONCRETE WORK IN ACCORDANCE WITH AS3600 AND NATSPEC CONCRETE STANDARDS.
- CONCRETE PROPERTIES AND COVER TO REINFORCING:

ELEMENT	CONCRETE STRENGTH fc (MPa)	MAX. 56 DAY DRYING SHRINKAGE	DRYING COVER	
SLABS ON GROUND	32	650microns	TOP 40	BTM 40
TANK LID	40	700microns	TOP 40	BTM 40

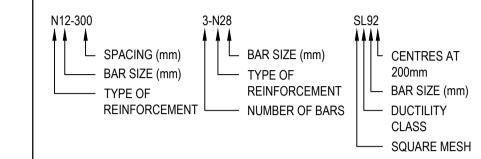
- MAXIMUM AGGREGATE SIZE = 20mm U.N.O. SLUMP DURING PLACING = 75mm = B1 EXPOSURE CLASSIFICATION NO ADMIXTURES SHALL BE USED IN CONCRETE MIX UNLESS APPROVED BY STRUCTURAL ENGINEER IN WRITING.
- CONCRETE PROPERTIES FOR SLABS AND BEAMS SHALL BE VARIED FROM NORMAL CLASS AS FOLLOWS:
 - MINIMUM CEMENT CONTENT 250kg/cu.m. - PRIOR TO COMMENCEMENT CONCRETE SUPPLIER TO PROVIDE DRYING SHRINKAGE TEST
- RESULTS FROM PRODUCTION ASSESSMENT AS EVIDENCE THAT SPECIFIED DRYING SHRINKAGE LIMITS CAN BE ACHIEVED USING NORMAL MIX DESIGN.
- SUBMIT FOR APPROVAL THE FOLLOWING TO THE STRUCTURAL ENGINEER:
 - CURING PROCEDURE (PVA MEMBRANES NOT PERMITTED) STRIPPING PROCEDURE
 - DETAILS AND LOCATION OF CAST IN SERVICES CONDUITS, PENETRATIONS AND CONSTRUCTION JOINT LOCATIONS
- 5. ALL CONCRETE MIXES SHALL BE DESIGNED BY A RECOGNISED TESTING LAB AND SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER.
- 6. ALL COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT ON ALL CONCRETE IN ACCORDANCE WITH AS1379. TEST CYLINDERS ARE TO BE KEPT ON SITE.
- 8. ALL CONCRETE IS TO BE CONTINUOUSLY CURED FOR A MINIMUM PERIOD OF 10 DAYS AFTER PLACING. CURING TO COMMENCE IMMEDIATELY AFTER FINISHING. SPRAY ON CURING COMPOUNDS TO COMPLY WITH AS3799.
- 9. FOR TENDER PURPOSES ASSUME MINIMUM STRIPPING TIMES AND EXTENT OF BACK PROPPING AS PER AS3610 SECTION 5.0 AND AS PER GENERAL NOTES FOR FORMWORK AND PROPPING.
- 10. FORMWORK FINISH CLASSIFICATION TO AS3600:
- INGROUND FOOTINGS
- 5 EARTH FACE **RETAINING WALLS** RETAINING WALLS 3 EXPOSED FACE COLUMNS
- BEAMS AND SLABS
- 11. SURFACE FINISHES: - COLUMNS AND WALLS OFF FORM
- 12. COMPACT ALL CONCRETE INCLUDING FOOTINGS AND SLABS, USING MECHANICAL VIBRATORS.
- 13. PLACE CONCRETE CONTINUOUSLY BETWEEN CONSTRUCTION JOINTS SHOWN ON PLAN. DO NOT BREAK OR INTERRUPT SUCCESSIVE POURS SUCH THAT COLD JOINTS OCCUR. ANY REVISIONS OR ADDITIONS TO CONSTRUCTION JOINTS SHOWN ON PLAN REQUIRE APPROVAL FROM THE STRUCTURAL ENGINEER.
- 14. CONCRETE PROFILES:
 - BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE THE SLAB THICKNESS.
 - SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
 - NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN SHOWN IN THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
 - PROVIDE DRIP GROOVES AT ALL EXPOSED EDGES. CHAMFERS. DRIP GROOVES, REGLETS ETC TO BE TO ARCHITECTS DETAILS.
- 15. ALL PENETRATIONS TO HAVE 2-N16 TRIMMER BARS TOP AND BOTTOM TO EACH FACE U.N.O. EXTEND TRIMMERS 600 BEYOND PENETRATION.
- 16. SETDOWNS OR FALLS IN FLOOR SURFACES ARE NOT PERMITTED UNLESS SHOWN ON DRAWINGS. MAINTAIN MINIMUM SLAB THICKNESS SHOWN ON PLAN WHERE FALLS OCCUR.

CONCRETE (cont)

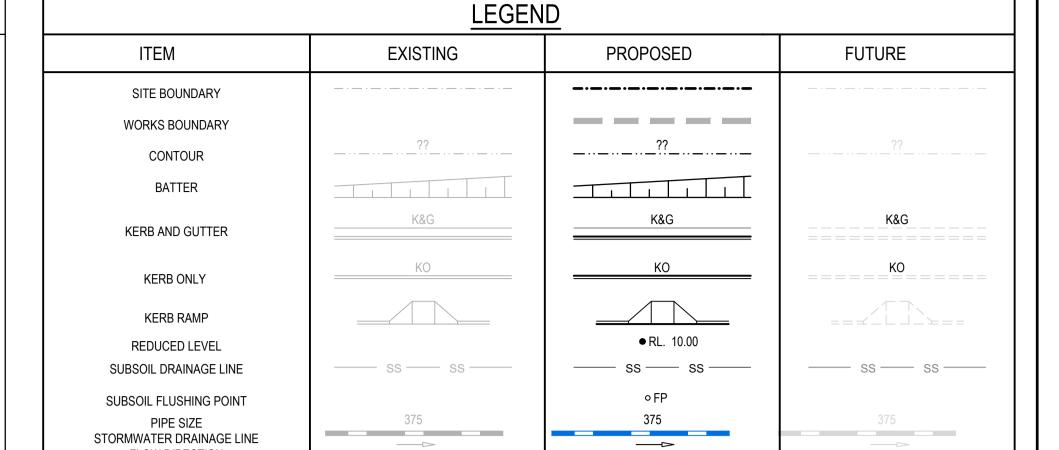
17. REIN	IFORCEMENT GRADE AND NO	OTATION:		
SYMBOL	BAR SHAPE	STRENGTH GRADE (MPa)	DUCTILITY CLASS	TO COMPLY WITH AUST. STANDARD
N	DEFORMED RIB BAR	500	NORMAL	AS4671
R	PLAIN ROUND BAR	250	NORMAL	AS4671
RL	RECTANGULAR MESH OF DEFORMED RIB BAR	500	LOW	AS4671
SL	SQUARE MESH OF DEFORMED RIB BAR	500	LOW	AS4671
L-TM	TRENCH MESH	500	LOW	AS4671

ALL REINFORCING BARS SHALL BE GRADE D500N TO AS4671 AND ALL MESH SHALL BE GRADE 500L TO AS4671 U.N.O. CLASS L REINFORCEMENT SHALL NOT BE USED U.N.O.

REINFORCEMENT LABELS:



- 18. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY, AND NOT NECESSARILY IN TRUE PROJECTION, BARS SHOWN ARE INDICATIVE ONLY AND LENGTHS MAY VARY. BEAM ELEVATIONS TAKE PRECEDENCE OVER SECTIONS. SLAB PLANS TAKE PRECEDENCE OVER SECTIONS. REFER TO SECTIONS FOR EXTRA BARS THAT MAY BE REQUIRED.
- 19. USE ONLY ALL PLASTIC OR CONCRETE CHAIRS AT EXTERNAL SURFACES.
- 20. SITE BENDING OF REINFORCEMENT BARS SHALL BE DONE WITHOUT HEATING USING A RE-BENDING TOOL. THE BARS SHALL BE RE-BENT AGAINST A FLAT SURFACE OR A PIN WITH A DIAMETER NOT LESS THAN THE MINIMUM PIN SIZE PRESCRIBED IN AS3600-2001.
- 21. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN ON THE STRUCTURAL DRAWINGS OR IN POSITIONS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH AS3600 SECTION 13 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR
- 22. FOR LAPS IN MESH REFER TO SLAB ON GROUND NOTES.
- 23. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER
- 24. AT EXTERNALLY EXPOSED SURFACES NO METALLIC ITEMS INCLUDING FORM BOLTS, FORM SPACERS, METALLIC BAR CHAIRS AND TIE WIRE ARE TO BE PLACED IN THE COVER ZONE.
- 25. ALL REINFORCEMENT, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION AND INSPECTED BY THE STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.
- 26. HOLD DOWN BOLTS SHALL BE HOT DIPPED GALVANISED.
- 27. U.N.O. ALL MASONRY ANCHORS INTO CONCRETE SHALL BE RAMSET TRUBOLTS (LONGEST VERSION) OR APPROVED EQUIVALENT, BOLTS SHALL BE GALVANISED WHERE THEY ARE ADJOINING NON FERROUS OR PREPAINTED MEMBERS. PROVIDE STAINLESS STEEL BOLTS FOR ALL EXTERNAL CONDITIONS, OR WHERE EXPOSED TO THE WEATHER.



(G03-13)

FLOW DIRECTION

STORMWATER LINE/PIT NUMBER

KERB INLET PIT

SURFACE INLET PIT/JUNCTION PIT

HEADWALL

GRATED TRENCH DRAIN

THE HILLS SHIRE COUNCIL CONSTRUCTION CERTIFICATE

DA 29/2020/HA

CC 59/2021/EC **CC APPROVED ON** 1/02/2021

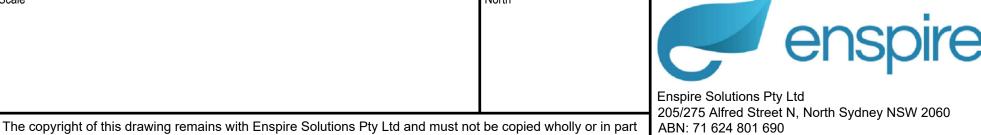
27/05/2020 ISSUED FOR CONSTRUCTION CERTIFICATE 2 | 22/05/2020 | ISSUED FOR 80% CONSTRUCTION CERTIFICATE MHE AL 22/01/2020 ISSUED FOR 80% CONSTRUCTION CERTIFICATE DRN. DES. VERIF. APPD EV. DATE DESCRIPTION





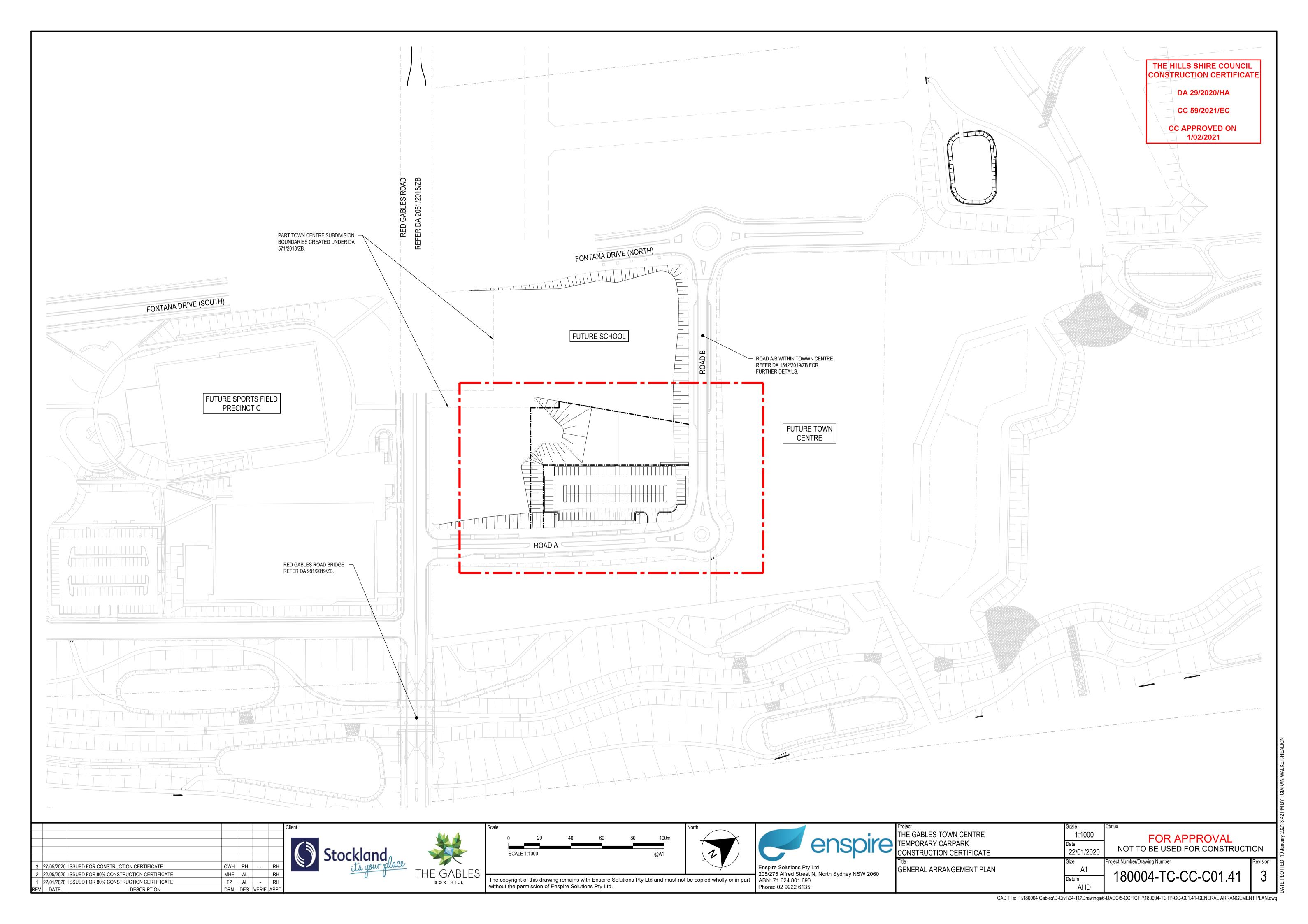


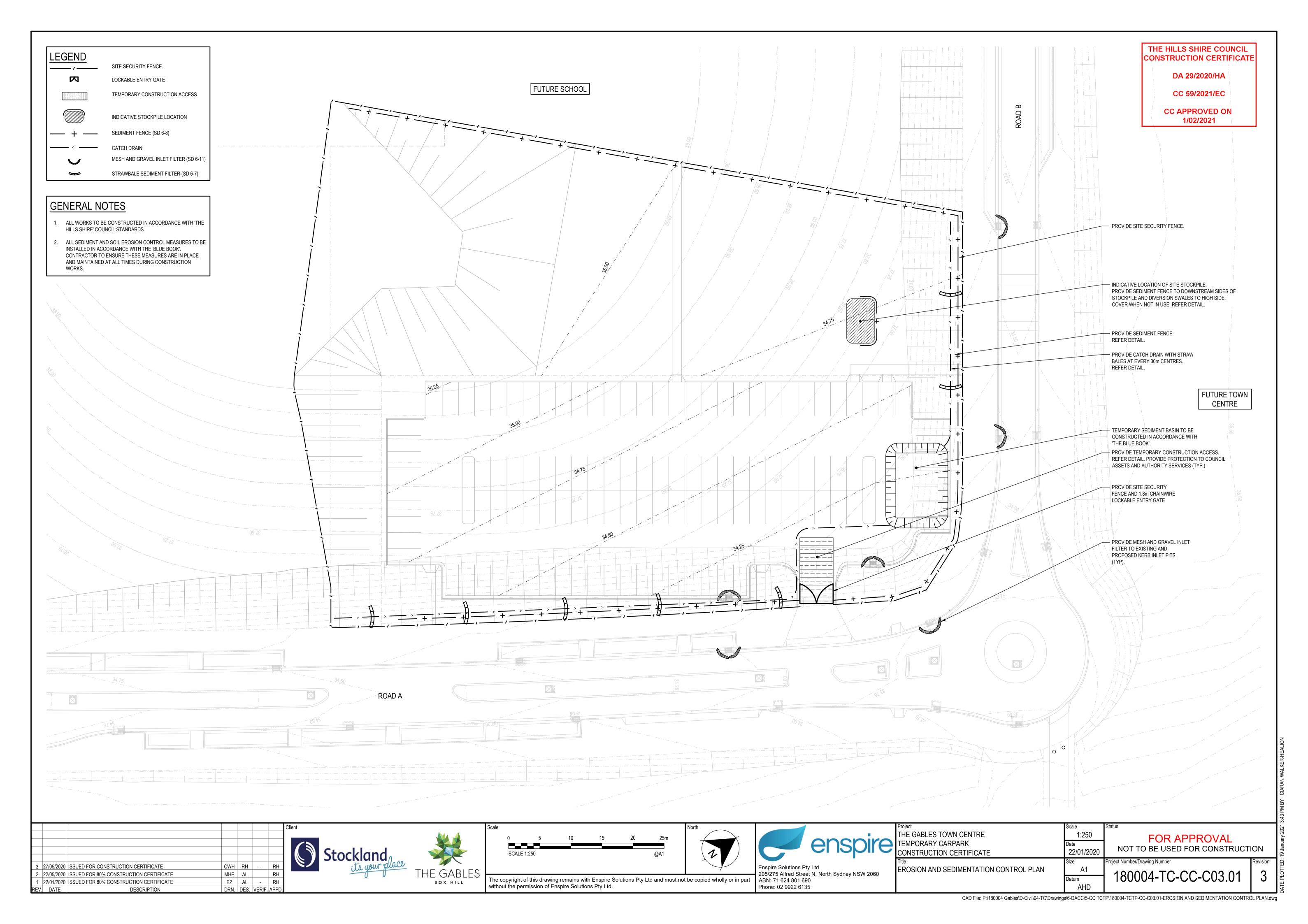
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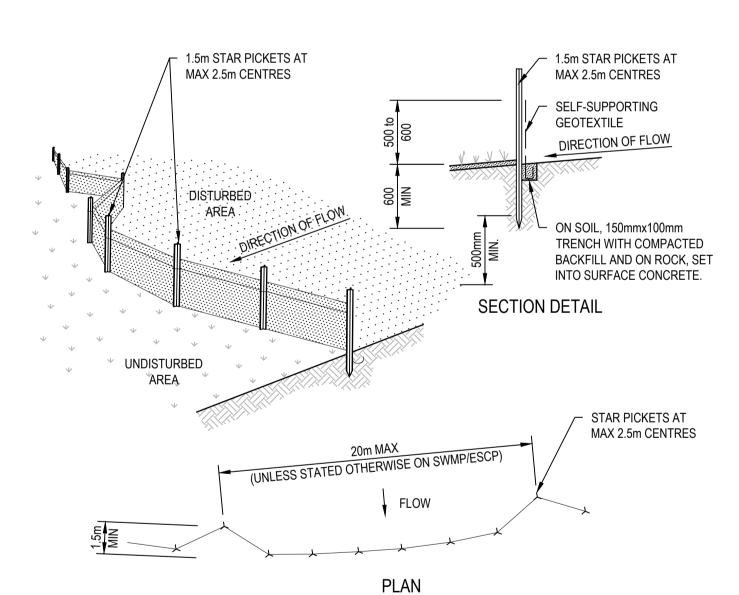
	Project	Scale	Status		
	THE GABLES TOWN CENTRE	-	FOR APPROVAL		
7	TEMPORARY CARPARK	Date	NOT TO BE USED FOR CONSTRUCTI	ON	
	CONSTRUCTION CERTIFICATE	22/01/2020	NOT TO BE USED FOR CONSTRUCTI	ON	
	Title	Size	Project Number/Drawing Number	Revision	
	GENERAL NOTES AND LEGENDS	A1	400004 TO OO OO4 OO	<u> </u>	
		Datum	180004-TC-CC-C01.22	3	
	SHEET 02	AHD			





- 1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
- 2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
- 3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
- 4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
- 5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

STOCKPILES (SD 4-1)



CONSTRUCTION NOTES

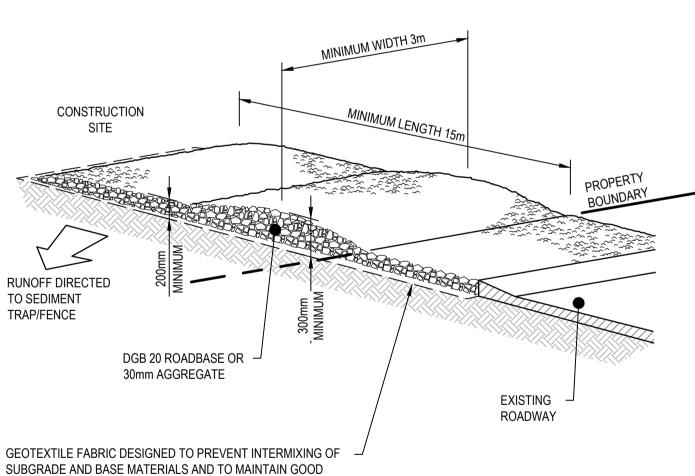
- 1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
- 2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE
- ENTRENCHED. 3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE
- FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
- 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.

6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

PROVIDE STRAW BALES AS SPECIFIED. 1

CATCH DRAIN



CONSTRUCTION NOTES

BURST STRENGTH (AS3706.4-90) OF 2500 N

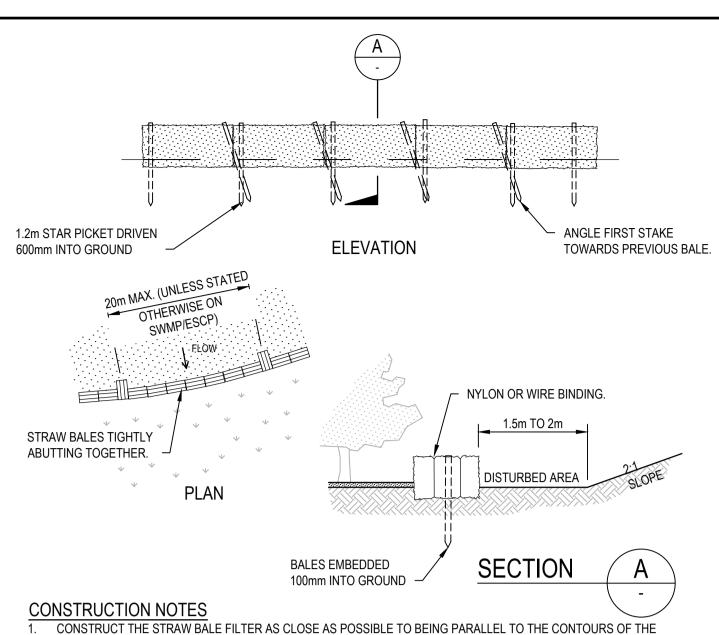
1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.

PROPERTIES OF THE SUB-BASE LAYERS. GEOFABRIC MAY BE A

WOVEN OR NEEDLE-PUNCHED PRODUCT WITH A MINIMUM CBR

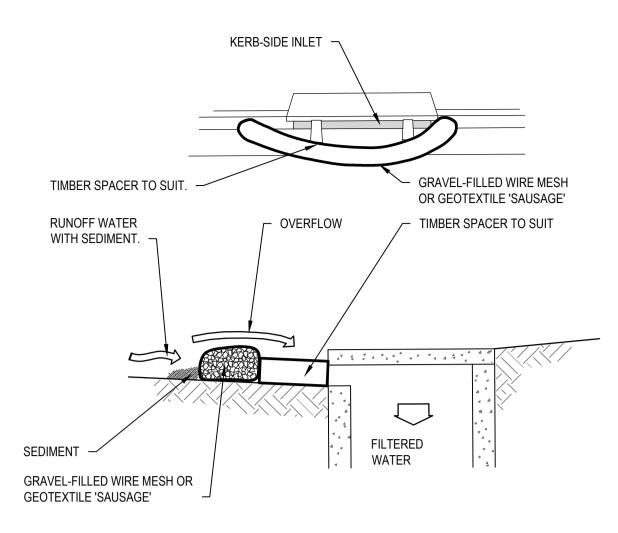
- 2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
 - CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
- ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE. 5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS
- TO DIVERT WATER TO THE SEDIMENT FENCE.

STABILISED SITE ACCESS (SD 6-14)



- 2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND.
- 3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
- 4. EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE THEM 600mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
- WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
- ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

STRAW BALE FILTER (SD 6-7)



NOTE: THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN APPROVED SWMP/ESCP.

CONSTRUCTION NOTES

- 1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
- 2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
- 3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
- 4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
- 5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
- 6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

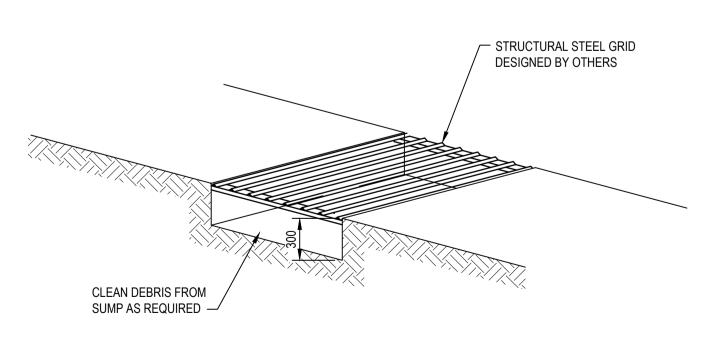
MESH AND GRAVEL INLET FILTER (SD 6-11)

THE HILLS SHIRE COUNCIL CONSTRUCTION CERTIFICATE

DA 29/2020/HA

CC 59/2021/EC

CC APPROVED ON 1/02/2021



SHAKER PAD

SEDIMENT FENCE (SD 6-8)

3	27/05/2020	ISSUED FOR CONSTRUCTION CERTIFICATE	CWH	RH	-	RH
2	22/05/2020	ISSUED FOR 80% CONSTRUCTION CERTIFICATE	MHE	AL		RH
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REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.



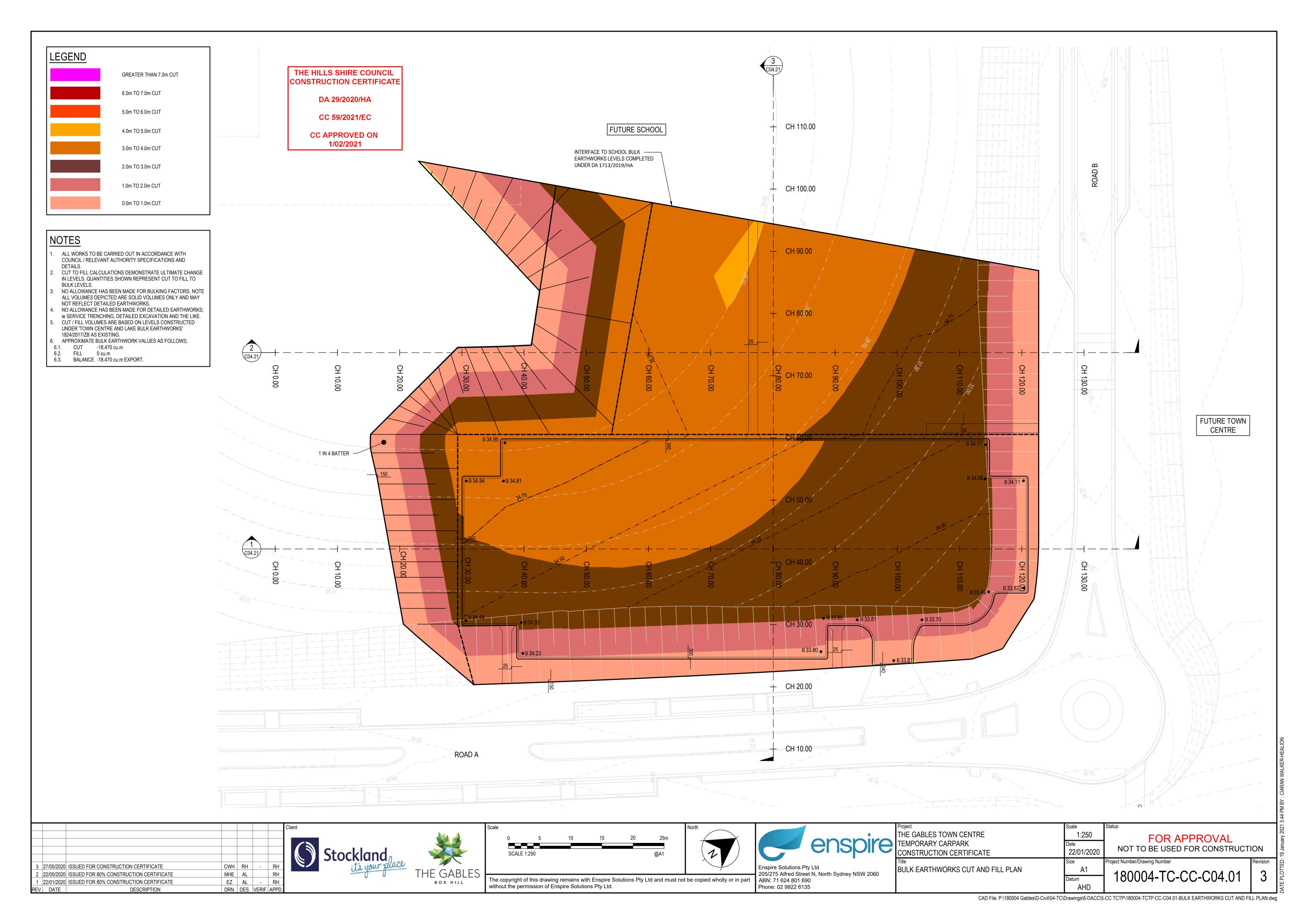


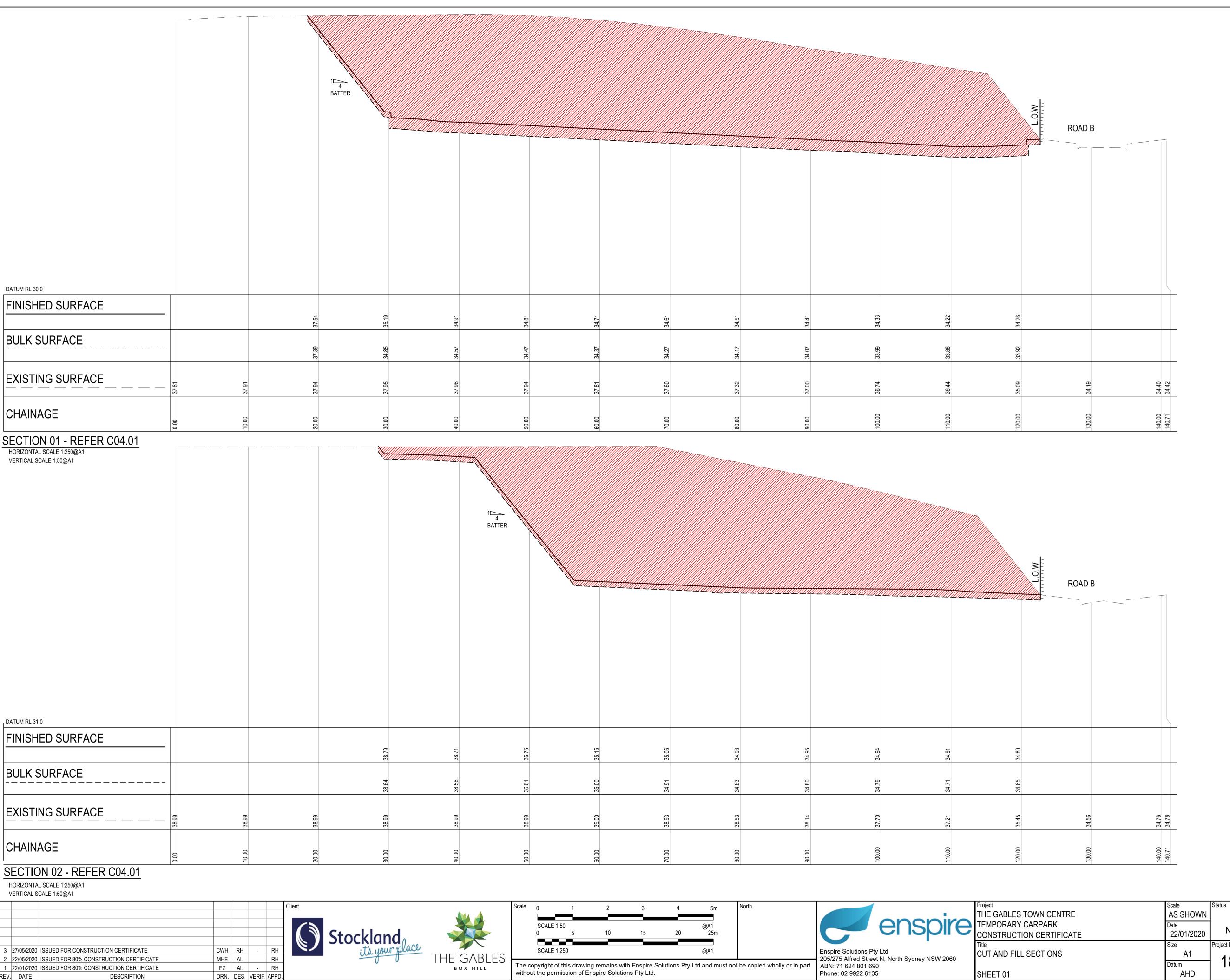
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part	ABN: 71 624 801 690 Phone: 02 9922 6135

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EMPORARY CARPARK	Date	NOT TO BE USED FOR CONSTRUCT	ION	January
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	AHD			DATE





REV. DATE

DESCRIPTION

DRN. DES. VERIF. APPD.

NOTES:

EXISTING SURFACE LEVEL REFLECTS BULK EARTHWORKS COMPLETED AS PART OF 'THE GABLES TOWN CENTRE AND LAKE BULK EARTHWORKS' PACKAGE 1824/2017/ZB. REFER 180004-LK-CC FOR FURTHER DETAILS.

THE HILLS SHIRE COUNCIL CONSTRUCTION CERTIFICATE

DA 29/2020/HA

CC 59/2021/EC

CC APPROVED ON 1/02/2021

FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION

CUT AND FILL SECTIONS

SHEET 01

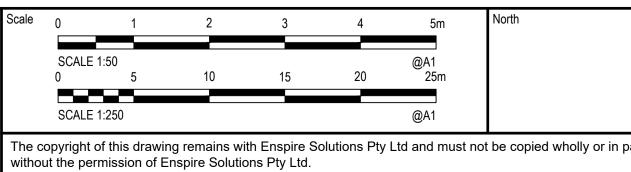
SECTION 03 - REFER C04.01

HORIZONTAL SCALE 1:250@A1 VERTICAL SCALE 1:50@A1

CHAINAGE







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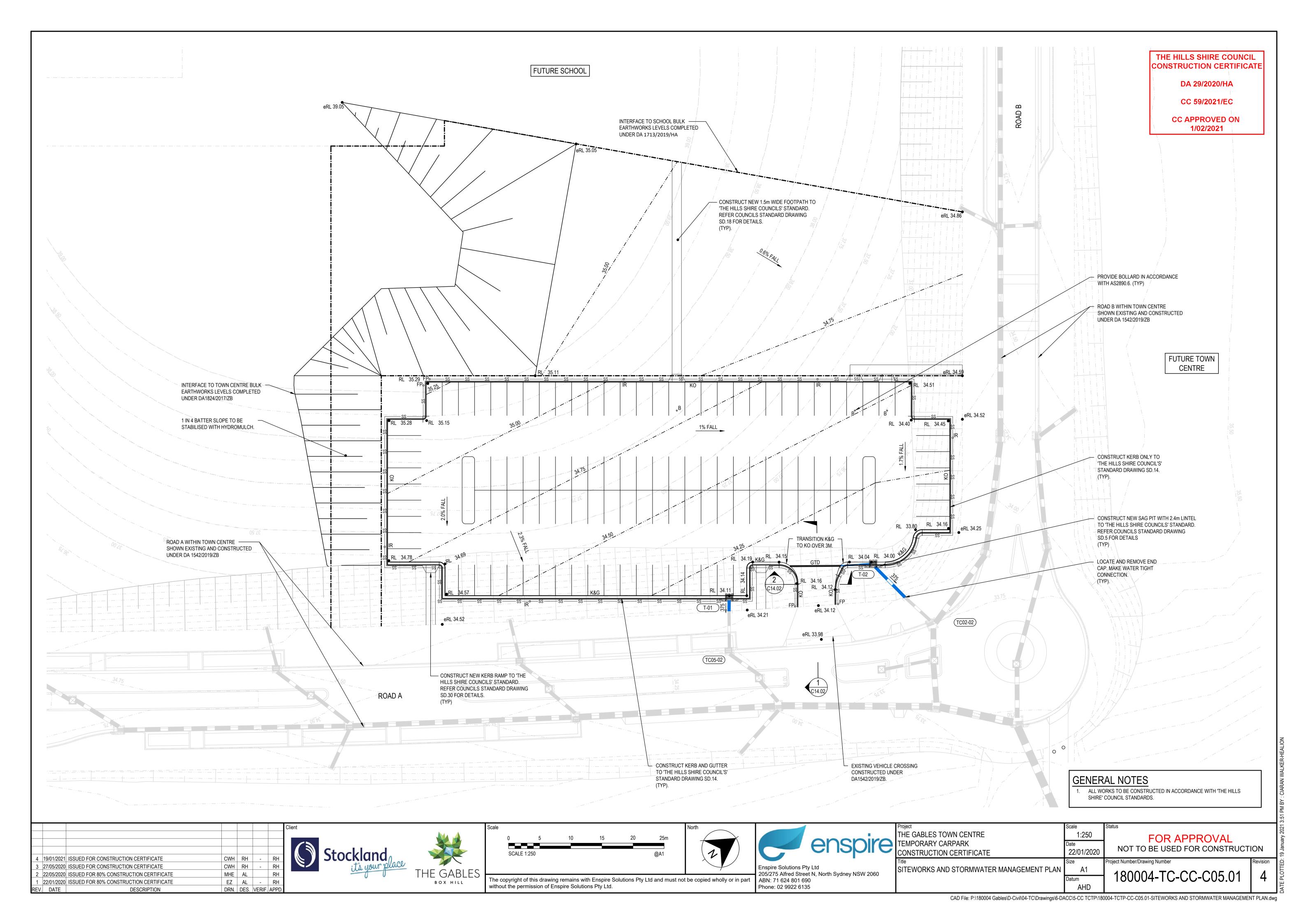
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EMPORARY CARPARK	Date			January
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itle	Size	Project Number/Drawing Number	Revision	TED:
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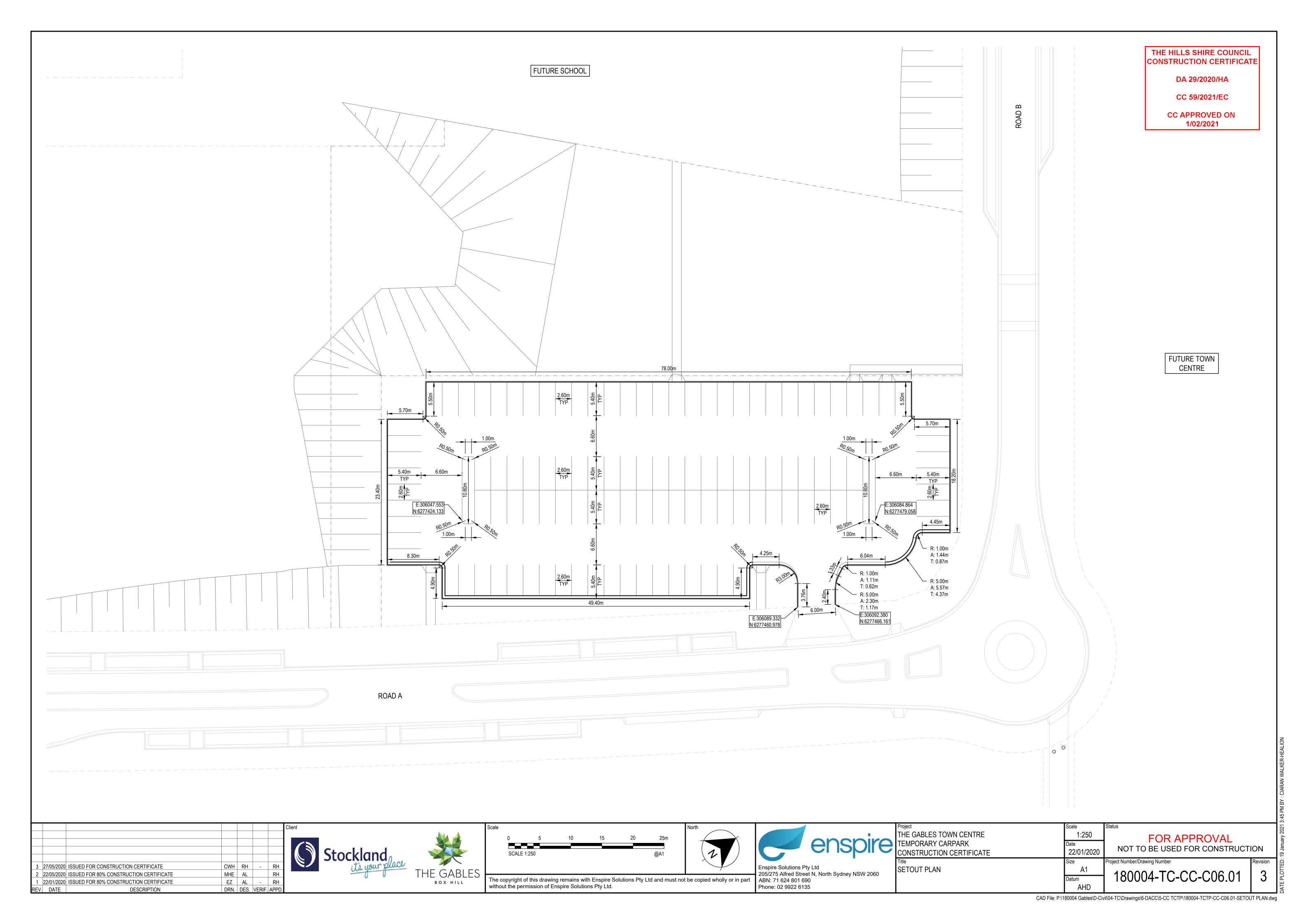
THE HILLS SHIRE COUNCIL CONSTRUCTION CERTIFICATE

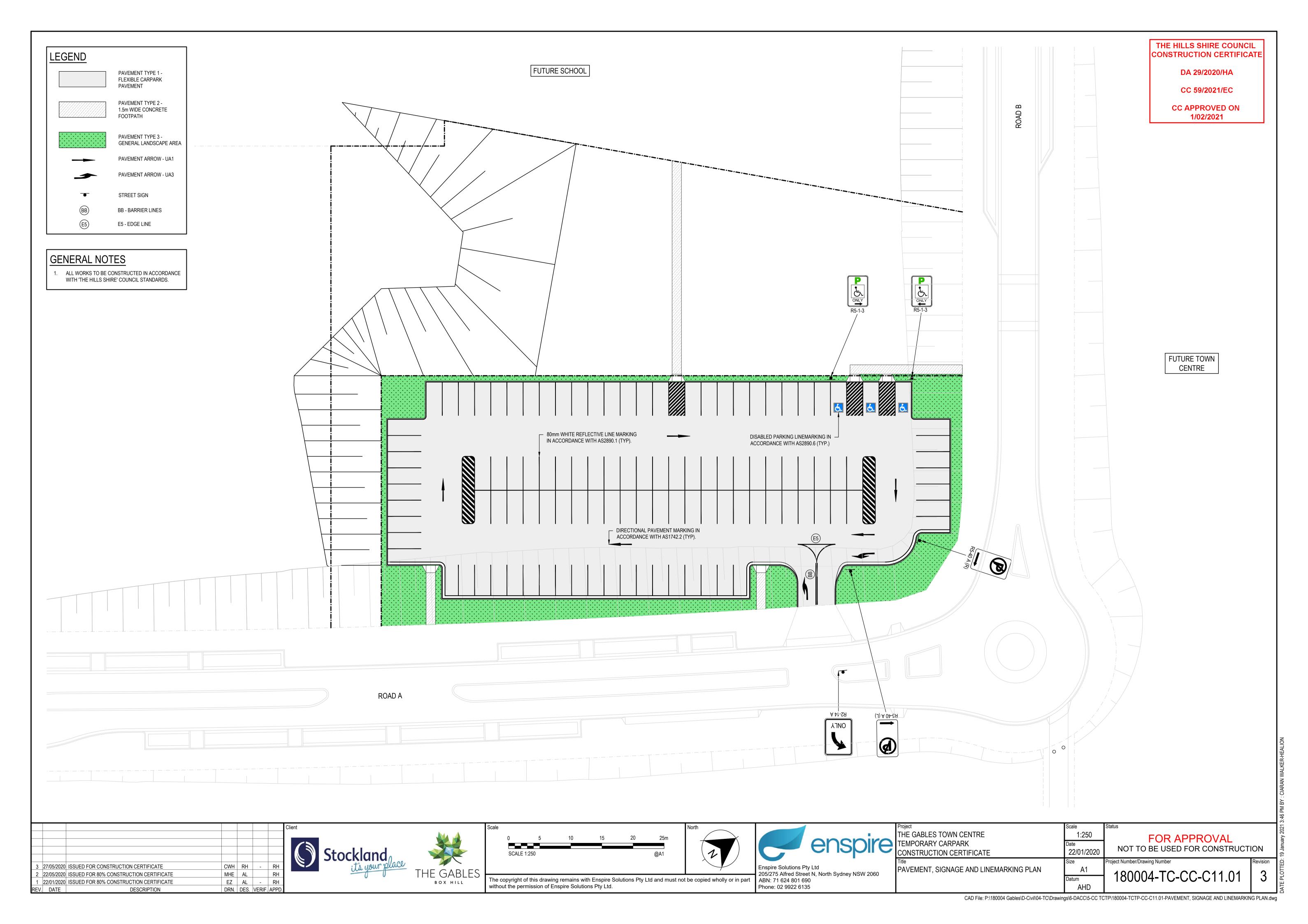
DA 29/2020/HA

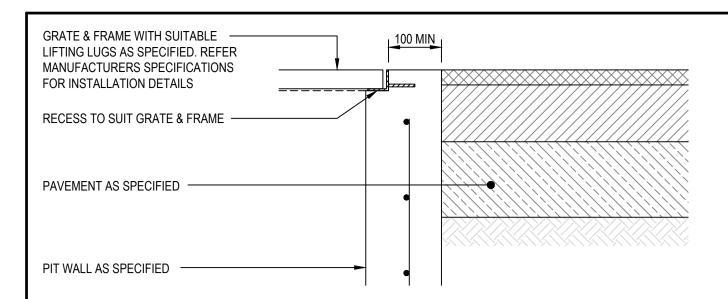
CC 59/2021/EC

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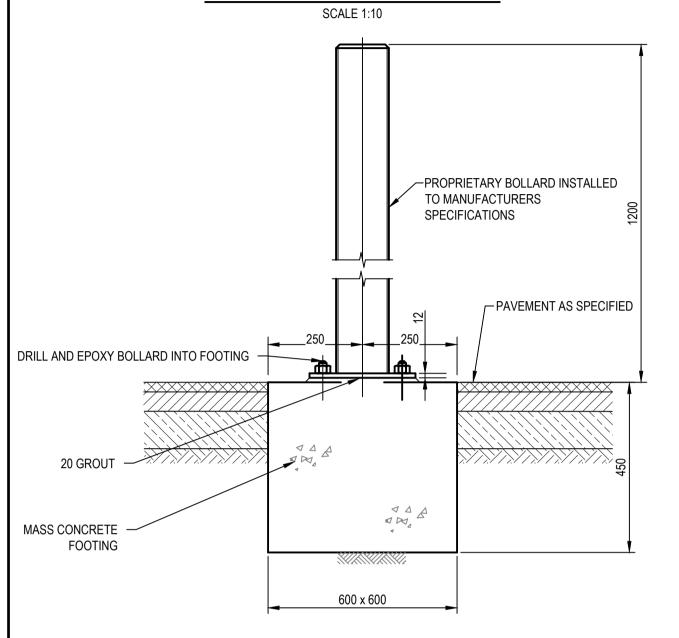








PIT INTERFACE - DETAIL 'A'



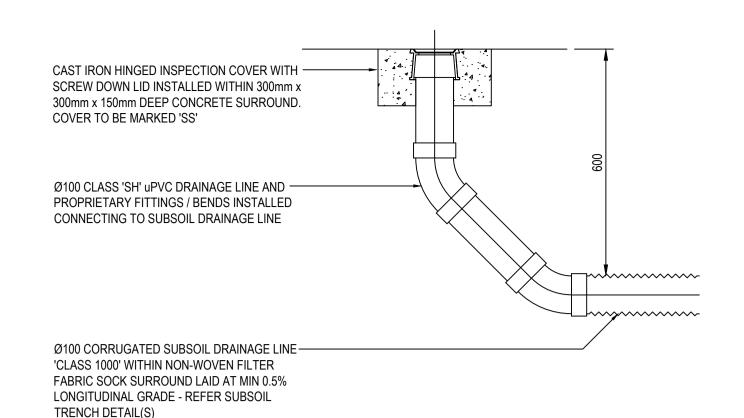
PERMANENT BOLLARD TO FLEXIBLE PAVEMENT

SCALE 1:10

SUBSOIL DRAINAGE CLEAROUT - REFER CLEAROUT 'CO' DETAIL(S) SUBSOIL DRAINAGE TRENCH FILLED NOM — 7mm APPROVED FREE DRAINAGE GRANULAR BACKFILL AND WRAPPED IN NON-WOVEN GEOTEXTILE FILTER FABRIC SURROUND Ø100 CORRUGATED SUBSOIL DRAINAGE LINE -'CLASS 1000' WITHIN NON-WOVEN FILTER FABRIC SOCK SURROUND LAID AT MIN 0.5% LONGITUDINAL GRADE AND DISCHARGING AT NEAREST DOWNSTREAM DRAINAGE STRUCTURE AS SHOWN

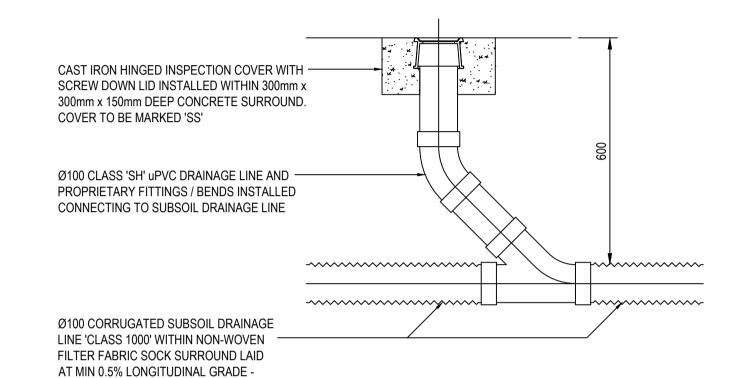
SUBSOIL DRAINAGE TRENCH

FLUSH POINT TO BE INSTALLED @ MAX 30m CENTRES AND DISCHARGING TO DRAINAGE STRUCTURES @ MAX 60m CENTRES.



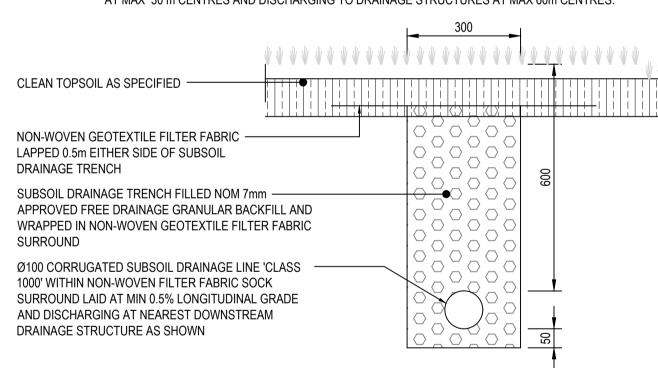
SUBSOIL DRAINAGE FLUSH POINT

FLUSH POINT TO BE INSTALLED AT UPSTREAM POINTS ALONG SUBSOIL DRAINAGE LINES AT MAX 30 m CENTRES AND DISCHARGING TO DRAINAGE STRUCTURES AT MAX 60m CENTRES.



SUBSOIL DRAINAGE INTERMEDIATE RISER

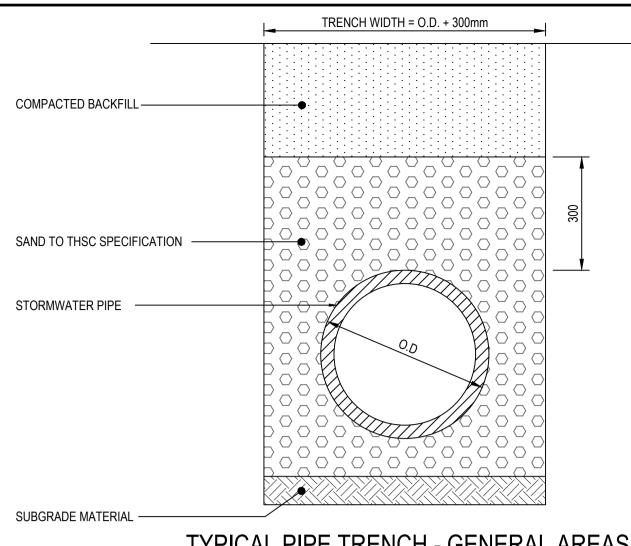
INTERMEDIATE RISER TO BE INSTALLED AT INTERMEDIATE POINTS ALONG SUBSOIL DRAINAGE LINES AT MAX 30 m CENTRES AND DISCHARGING TO DRAINAGE STRUCTURES AT MAX 60m CENTRES.



SUBSOIL DRAINAGE TRENCH - LANSCAPING

FLUSH POINT TO BE INSTALLED AT MAX 30 m CENTRES AND DISCHARGING TO DRAINAGE STRUCTURES AT MAX 60m CENTRES.

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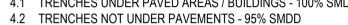


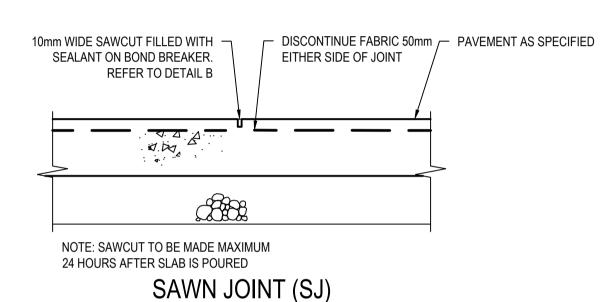
TYPICAL PIPE TRENCH - GENERAL AREAS

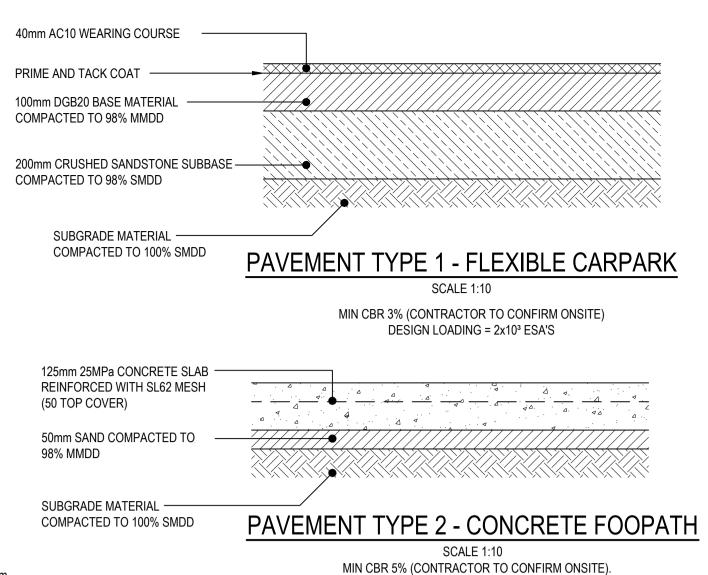
SCALE 1:10

1. TRENCH WIDTH MAY NEED TO BE INCREASED SUBJECT TO ACHIEVING COMPACTION. ENSURE MINIMUM 300mm CLEARANCE BETWEEN, WHEN USING MULTIPLE PIPES TO ACHIEVE ADEQUATE COMPACTION. MINIMUM PIPE COVER NOT UNDER ROADS TO BE 300mm U.N.O.

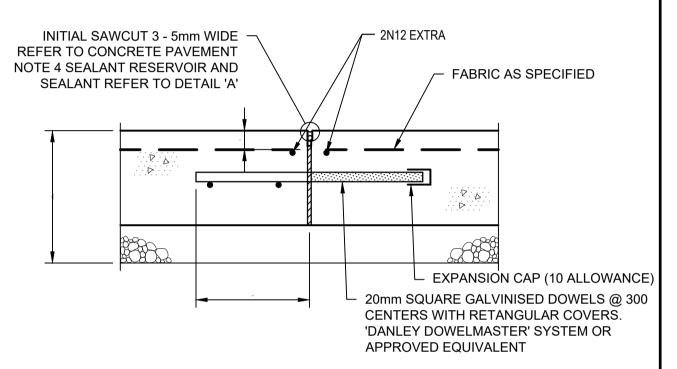
- THE CONTRACTOR SHALL ENSURE THAT SHORING OF TRENCHES IS INSTALLED AS REQUIRED BY STATUTORY REQUIREMENTS.
- 4. ENSURE BACKFILLING COMPACTION MEETS THE FOLLOWING STANDARDS;
- 4.1 TRENCHES UNDER PAVED AREAS / BUILDINGS 100% SMDD



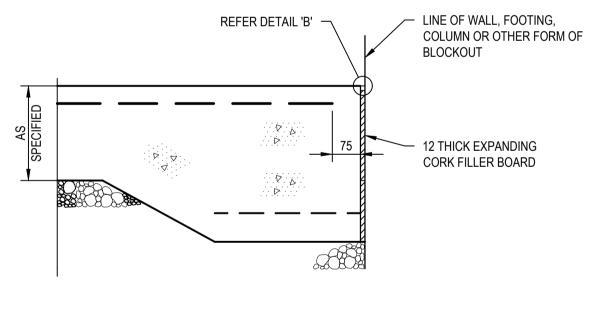




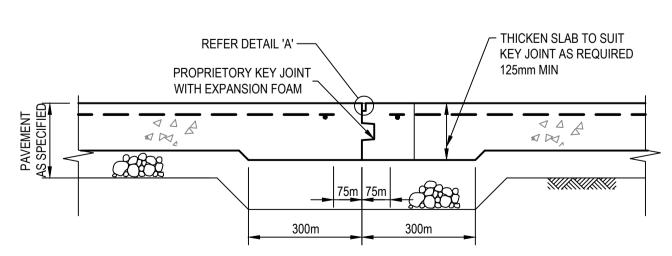
CONTRACTOR TO ALLOW FOR JOINTS - REFER SPECIFICATION NOTES FOR JOINT SPACING.



EXPANSION JOINT (EJ) SCALE 1:10

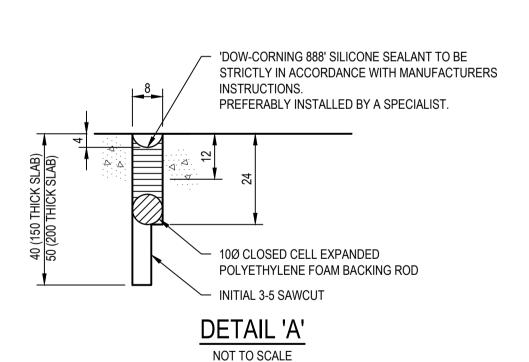






NON-TRAFFICABLE KEYED JOINT (KJ1)

LOCATE JOINTS AS SHOWN ON PLAN



THE HILLS SHIRE COUNCIL

DA 29/2020/HA

CC 59/2021/EC

CONSTRUCTION CERTIFICATE

CC APPROVED ON

1/02/2021

4	19/01/2021	ISSUED FOR CONSTRUCTION CERTIFICATE	CWH	RH	-	R
3	27/05/2020	ISSUED FOR CONSTRUCTION CERTIFICATE	CWH	RH	-	R
2	22/05/2020	ISSUED FOR 80% CONSTRUCTION CERTIFICATE	MHE	AL		R
1	22/01/2020	ISSUED FOR 80% CONSTRUCTION CERTIFICATE	ΕZ	AL	-	R
REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	AP





REFER SUBSOIL TRENCH DETAIL(S)

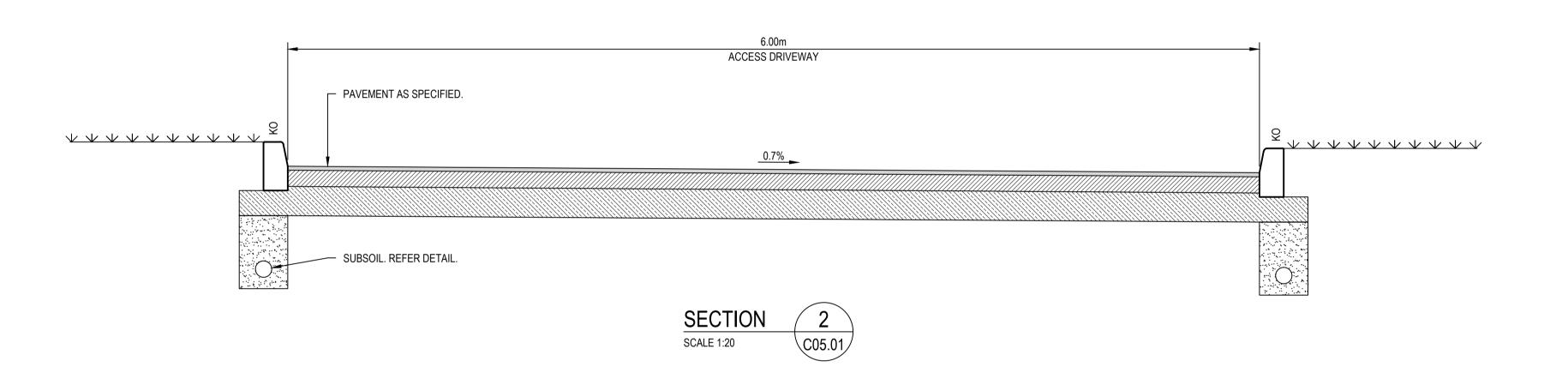
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	Project	Scale	Status		2021
	THE GABLES TOWN CENTRE	AS SHOWN	FOR APPROVAL		22
_	TEMPORARY CARPARK	Date	NOT TO BE USED FOR CONSTRUCTION	NC	an e
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ROAD A TEMPORARY CARPARK 1.0% 2.4% DATUM 31.00 33.92 33.88 33.98 FINISHED SURFACE 0.00 OFFSET

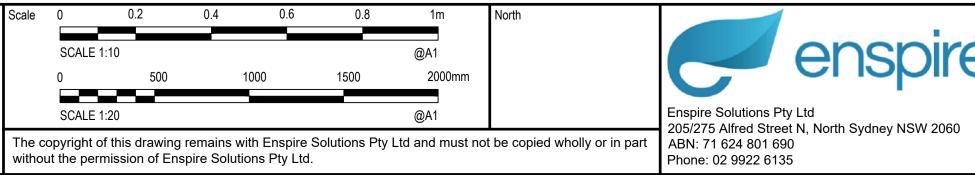
SECTION C05.01 SCALE 1:50



CWH RH - RH
DRN. DES. VERIF. APPD. 1 19/01/2021 ISSUED FOR CONSTRUCTION CERTIFICATE REV. DATE DESCRIPTION









Project	Scale	Status				
THE GABLES TOWN CENTRE	AS SHOWN	FOR APPROVAL				
FEMPORARY CARPARK	Date					
CONSTRUCTION CERTIFICATE	19/01/2021	NOT TO BE USED FOR CONSTRUCT	ION			
Title	Size	Project Number/Drawing Number	Revision			
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THE HILLS SHIRE COUNCIL

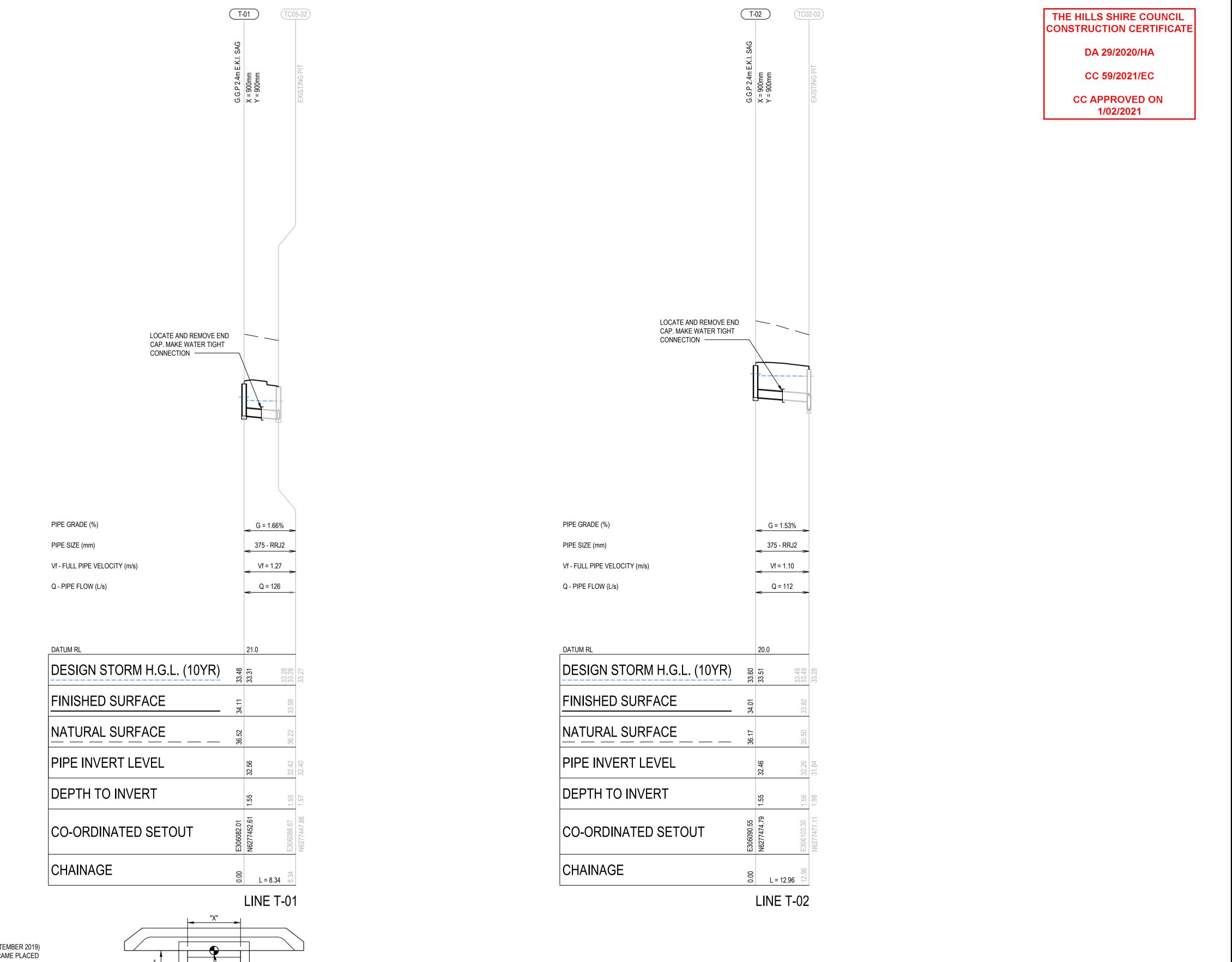
CONSTRUCTION CERTIFICATE

DA 29/2020/HA

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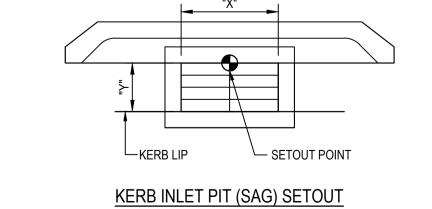
CC APPROVED ON

1/02/2021



NOTES:

- G.G.P 2.4m E.K.I. SAG ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE HILLS SHIRE COUNCIL STANDARD DETAIL SD.5 (SEPTEMBER 2019)
 AND SD.6 (SEPTEMBER 2019) UNLESS NOTED OTHERWISE. PITS ARE TO BE FITTED WITH A CLASS 'D' GALVANISED GRATE AND FRAME PLACED
 CENTRAL TO THE LINTEL.
- 2. INTERNAL PIT CHAMBER SIZES SHOWN ARE MINIMUM VALUES CALCULATED. WHERE PIT CHAMBER SIZES ARE PROPOSED TO BE ADJUSTED BY THE CONTRACTOR APPROVAL FOR SUCH CHANGES IS TO BE PROVIDED BY THE PRINCIPAL'S REPRESENTATIVE PRIOR TO PIT CONSTRUCTION.
- 3. PIPE LENGTHS SHOWN ARE MEASURED BETWEEN SETOUT POINTS AND MAY NOT REPRESENT ACTUAL PIPE LENGTHS FOR CONSTRUCTION.



3	27/05/2020	ISSUED FOR CONSTRUCTION CERTIFICATE	CWH	RH	-	RH
2	22/05/2020	ISSUED FOR 80% CONSTRUCTION CERTIFICATE	MHE	AL		RH
1	22/01/2020	ISSUED FOR 80% CONSTRUCTION CERTIFICATE	EZ	AL	-	RH
REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.

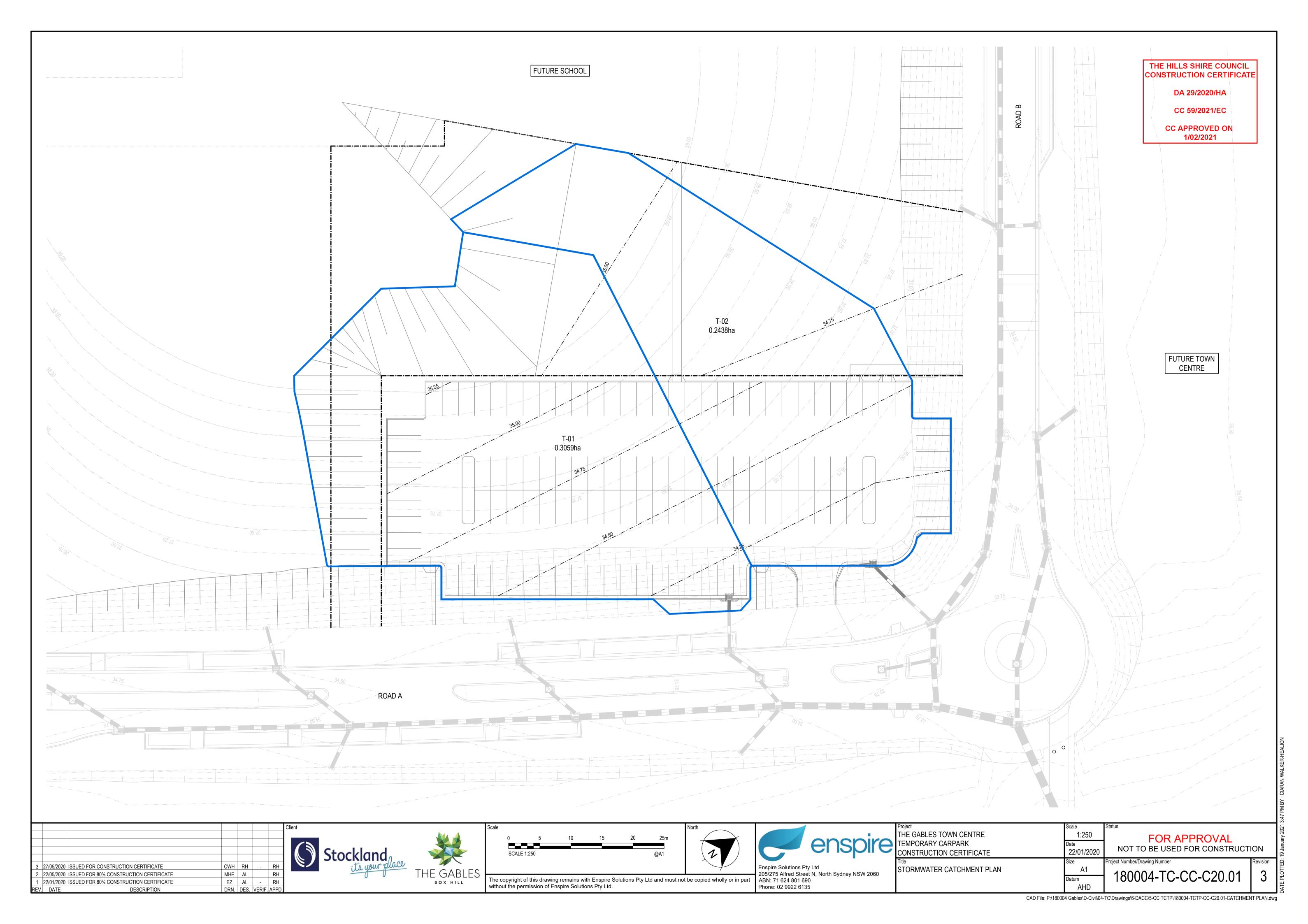


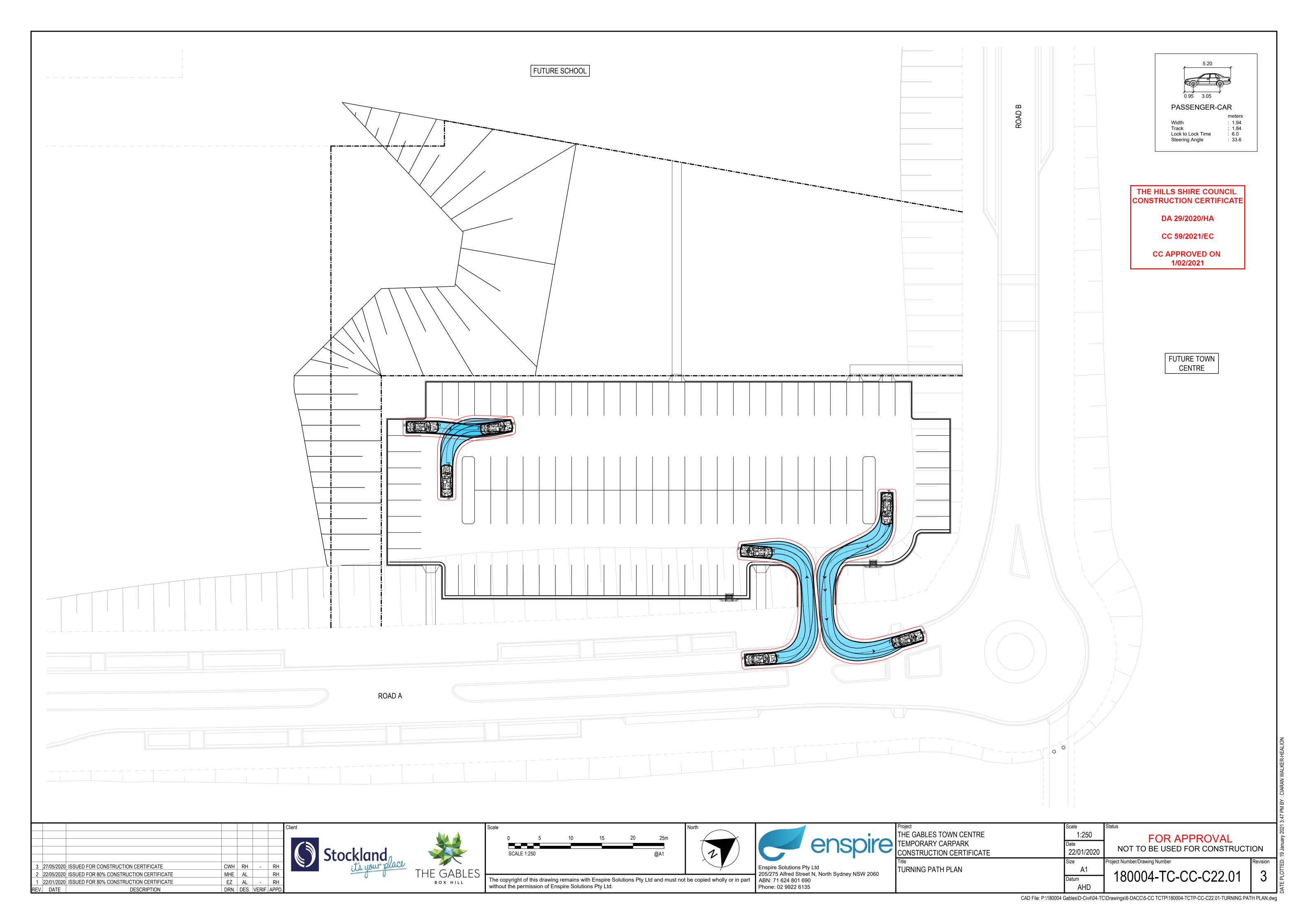


Scale							North
H:	0	10	20	30	40	50m	
V:	-	2 H:1:500 V:1:10	4	6	8	10m @A1	
			g remains wi nspire Solutio		lutions Pty	Ltd and must r	not be copied wholly or in part

	enspire
	Enspire Solutions Pty Ltd 205/275 Alfred Street N, North Sydney NSW 2060
part	ABN: 71 624 801 690 Phone: 02 9922 6135

Project	Scale	Status				
THE GABLES TOWN CENTRE	AS SHOWN	FOR APPROVAL	CTION			
TEMPORARY CARPARK	Date					
CONSTRUCTION CERTIFICATE	22/01/2020	NOT TO BE USED FOR CONSTRUCT				
Title	Size	Project Number/Drawing Number	Revision			
STORMWATER LONGITUDINAL SECTIONS	A1	100004 TC CC C17 01	2			
	Datum	180004-TC-CC-C17.01	3			
	AHD					
OAD ET BIARROSSA O LL ID CUITAL TOID LE LA DA COLE CO TOTRIARROSSA TOTRI CO CAZINA OTORNIMATER L'ONOITHRIMAL GEOTIONIO L						







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DESCRIPTION

25 October 2021

The General Manager The Hills Shire Council PO Box 75 CASTLE HILL NSW 1765 CONTRACTORS & CIVIL ENGINEERS

Attention: Mr Michael Edgar

GABLES TOWN CENTRE ROADS A & B – Line Marking and Signs Council Reference No. CC 85/2020/EC

Property Description:

Lot 2 DP 1237552, Lot 2 DP 1237552 Red Gables Road, BOX HILL NSW 2765 CONSTRUCTION CERTIFICATION

I, Ryan Noney, of Western Earthmoving Pty Ltd, hereby certify that the line marking and signs for the DOPU zone on Road B and the Bus Zone on Fontana Drive has been constructed in accordance with the conditions of the Construction Certificate, the approved LTC plan and in accordance with The Hills Shire Council's "Works Specification Subdivisions/Developments"

Yours Faithfully, WESTERN EARTHMOVING PTY LTD,

Ryan Noney *BE(Hons) DipProfEngPrac* Project Manager

rnoney@wem.com.au



THE HILLS SHIRE COUNCIL

3 Columbia Court, Norwest NSW 2153 PO Box 7064, Norwest 2153 ABN 25 034 494 656 | DX 9966 Norwest

28 July 2021

Orion Consulting Engineers PO Box 7396 NORWEST NSW 2153

Dear Sir/ Madam

SUBDIVISION CERTIFICATE

In accordance with Section 6.4 of the Environmental Planning and Assessment Act 1979

Notice is given of determination by Council the consent authority of the Part 6 Certificate described below.

Development:	Stage two of a subdivision creating three residue lots, one town centre/development lot and one open space lot including new road over four stages (including the staged reconstruction of Red Gables Road between Valletta Drive and Janpieter Road). Stage two creates one residue lot and one town centre/ development lot
Property Description:	Lot 2 DP 1237552 Lot 2 DP 1237552 Red Gables Road, GABLES NSW 2765
Applicant:	Orion Consulting Engineers
Development Application No.:	2051/2018/ZB
Subdivision Certificate No.:	143/2021/SC
Determination:	Approved
Date of Determination:	28 July 2021

This Subdivision Certificate is a Part 6 Certificate issued in accordance with Section 6.4(d) of the Environmental Planning and Assessment Act 1979, and certifies that the requirements of Section 6.15 of the Environmental Planning and Assessment Act 1979 have been met.

Please contact Leanne Pracy on (02) 8853 1975 if you require any further information.

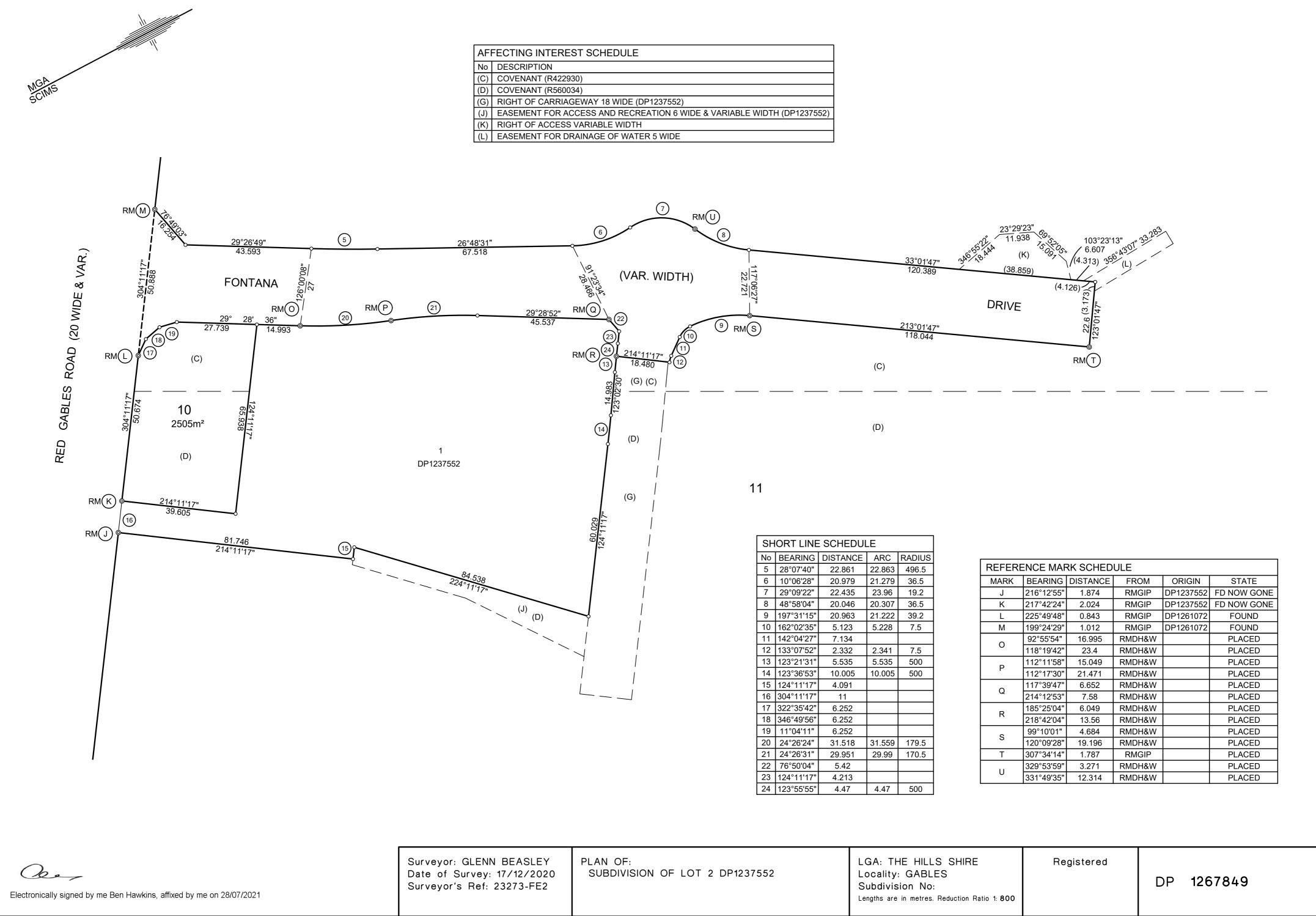
Yours Faithfully

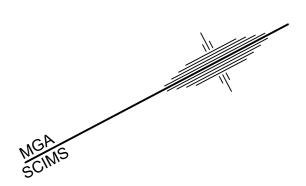
Ben Hawkins

MANAGER - SUBDIVISION & DEVELOPMENT CERTIFICATION

www.thehills.nsw.gov.au | 9843 0555

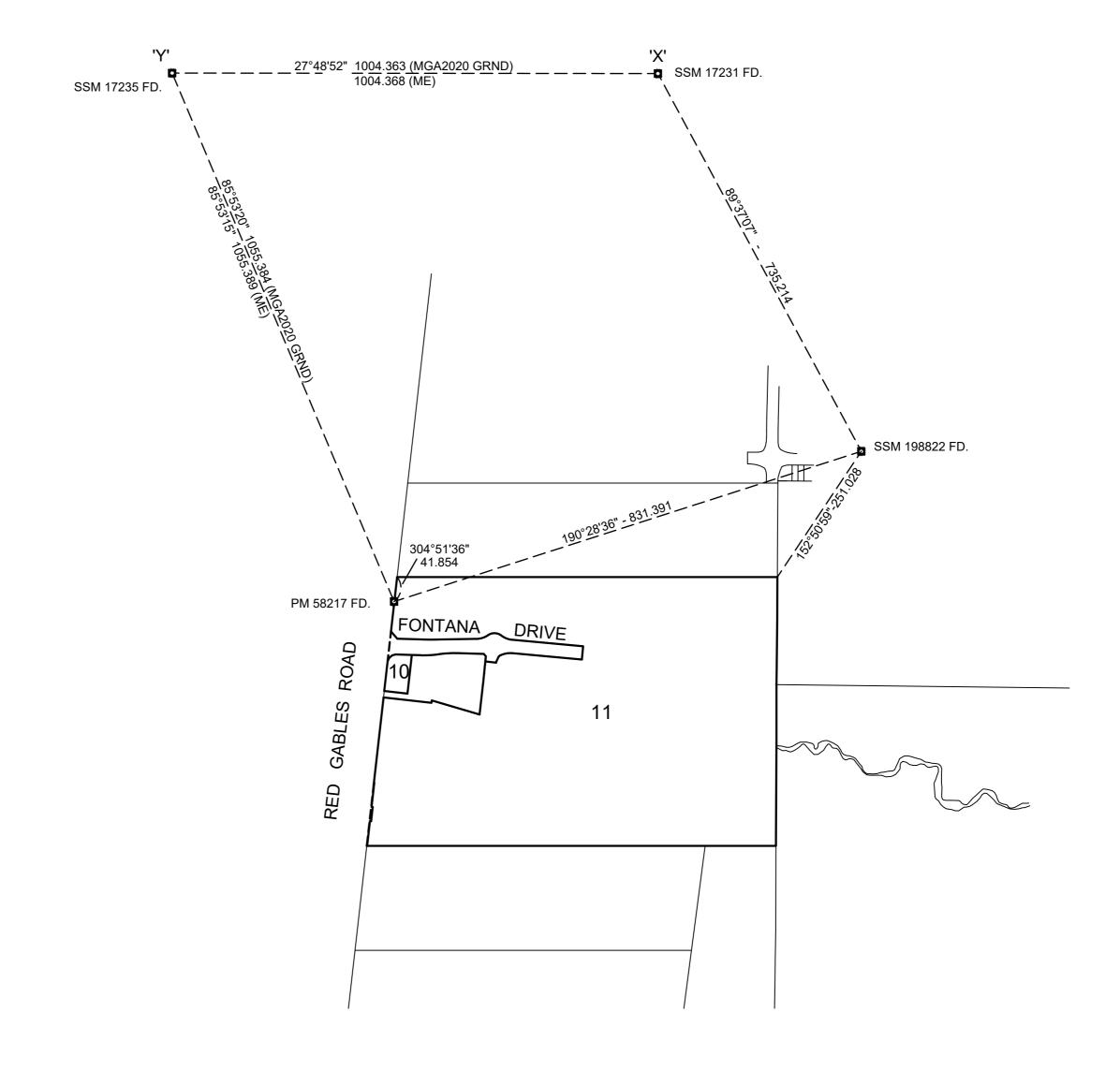
Document Set ID: 19531992 40 50 60 Table of mm 100 110 120 130 140 150 Version: 3, Version Date: 09/08/2021





COORDINATE SCHEDULE								
MARK	M.G.A. CO-ORDINATES		CLASS	PU	METHOD	STATE		
IVIARK	EASTING	NORTHING	CLASS	.433	METHOD STA	METHOD	STATE	
SSM17231	305231.132	6278293.596	В	N/A	FROM SCIMS	FOUND		
SSM17235	304762.463	6277405.224	В	0.02	FROM SCIMS	FOUND		
PM58217	305815.189	6277480.891	D	N/A	FROM SCIMS	FOUND		
SSM198822	305966.4	6278298.5	E	N/A	FROM SCIMS	FOUND		
DATE OF SCIMS COORDINATES: 9/12/2020 MGA ZONE: 56 MGA DATUM: GDA2020						I: GDA2020		

COMBINED SCALE FACTOR 1.000055



Oo.

Electronically signed by me Ben Hawkins, affixed by me on 28/07/2021

Surveyor: GLENN BEASLEY Date of Survey: 17/12/2020 Surveyor's Ref: 23273-FE2

PLAN OF: SUBDIVISION OF LOT 2 DP1237552 LGA: THE HILLS SHIRE
Locality: GABLES
Subdivision No:
Lengths are in metres. Reduction Ratio 1: 6000

Registered

DP 1267849