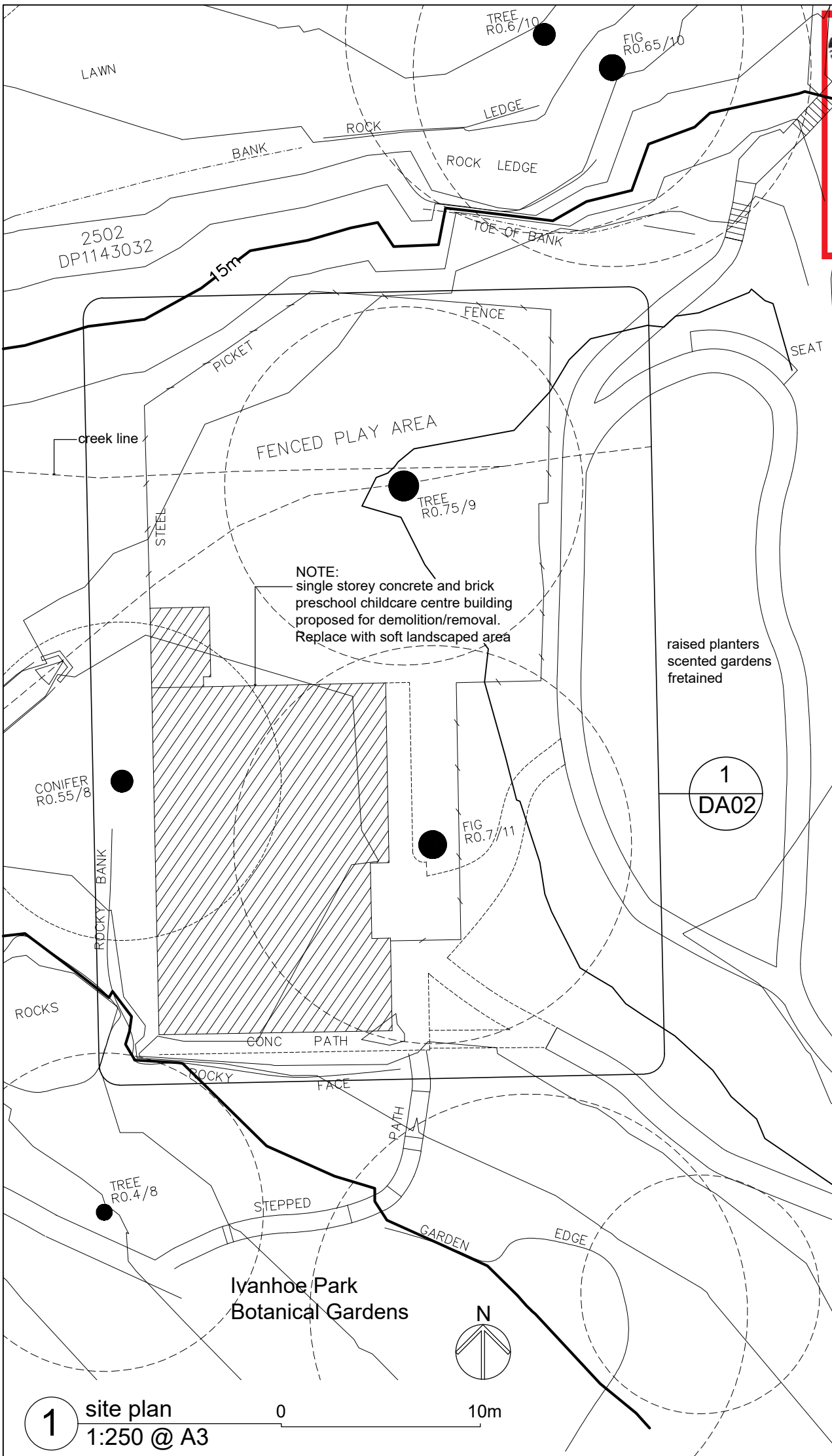




THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE CONDITIONS OF DEVELOPMENT CONSENT

DA2022/0971

Rev	Description	Date
A	Development Application for building demolition/removal	Feb '21
B	Development Application for building demolition/removal amended as required	Feb '22

Project:
Ivanhoe Park
Childcare Centre
Fairlight - building
demolition/removal

Drawing Title:
Site/location plan

northern beaches council

records@northernbeachescouncil.nsw.gov.au

Prepared by:
Building Assets - Planning,
Design and Delivery
Northern Beaches Council

Scale: 1: 250@A3

Date: Feb 2021

Drawn: MB

Checked: DG

DA01

Rev: B

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aerial photo location plan

Manly Lawn Bowling Club

bowling green

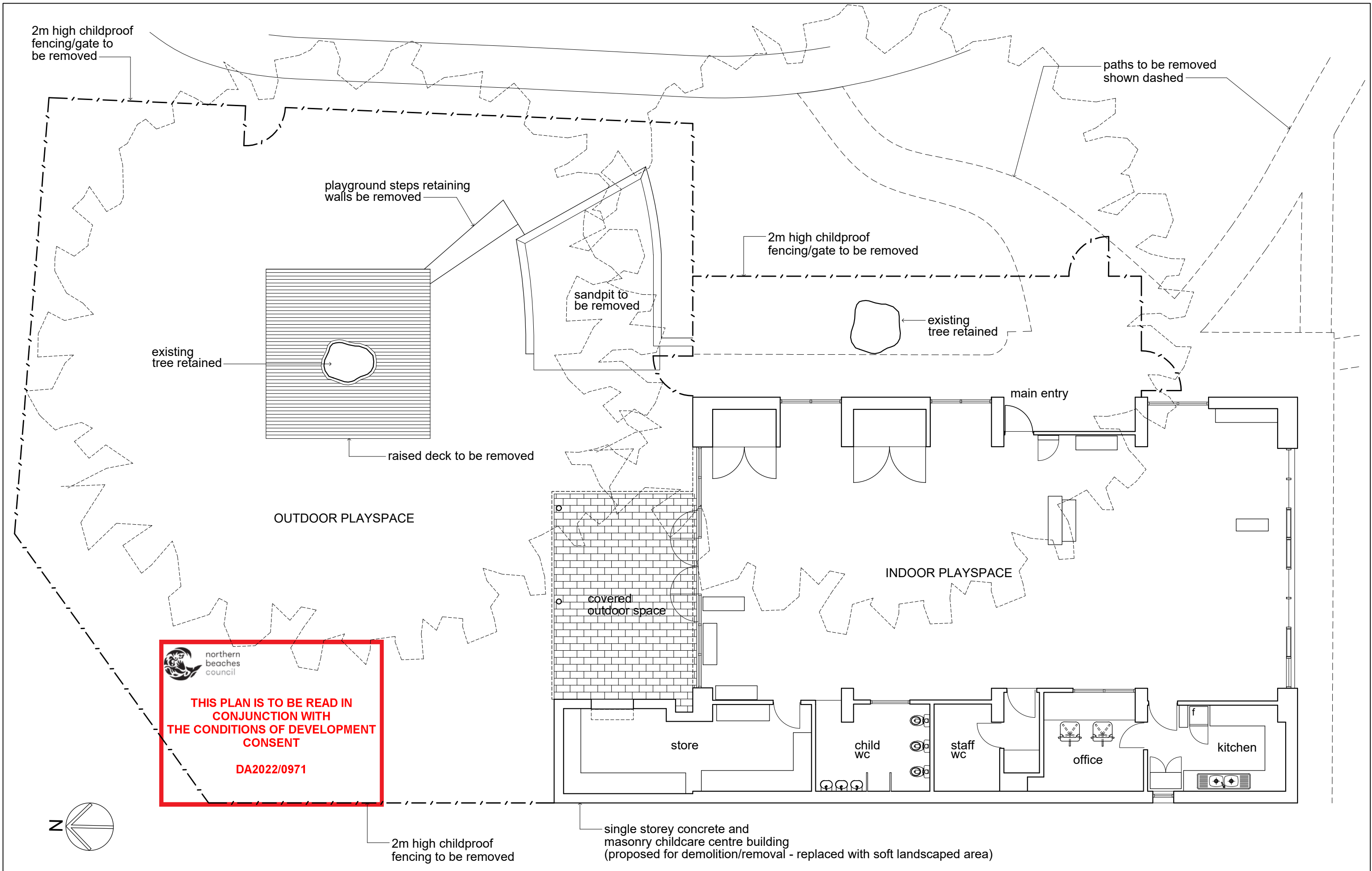
2661
DP752038

bowling green

45'

86.04

187°



1 floor plan
nts use scale bar

Rev	Description	Date	Project:	Scale:	Dwg No.
A	Development Application for building demolition/removal	Feb '21	IVANHOE PARK	use scale bar	DA02
B	Development Application for building demolition/removal amended as required	Feb '22	CHILDCARE CENTRE, FAIRLIGHT	Date: Feb 2021	Rev . B
			Drawing Title:	Drawn: MB	
			FLOOR PLAN	Checked: DG	
			Prepared by:	COPYRIGHT	
			Building Assets - Planning, Design and Delivery	THESE DRAWINGS REMAIN THE PROPERTY OF NORTHERN BEACHES COUNCIL AND MUST NOT BE REPRODUCED WITHOUT THE SIGNED APPROVAL OF THE CEO OF NORTHERN BEACHES COUNCIL.	
			Northern Beaches Council		

IVANHOE PARK INTERPRETATION ENTRY
SPECIFIED NOTES FOR LANDSCAPE WORKS

1.0 GENERAL CONDITIONS

1.1 Site Location

The location of the works is Ivanhoe Park Botanic Gardens, Manly, 2095 NSW

1.2 Documentation

Any discrepancy between drawings, existing conditions or specification is to be referred to the Superintendent for confirmation prior to the commencement of works.

1.3 Drawings

The Detailed Documentation Drawings are not to be scaled. Any inconsistencies between the Project drawings and this specification shall be referred to the Superintendent for resolution. All drawings and digital files of works remain the intellectual property of the Principal and shall not be distributed or reused for any other works.

1.4 Extent of Works

The works in this contract include construction of all works necessary for the proper completion of works shown or implied in the drawings and specification. The works in this contract include, but are not limited to:

SITE PREPARATION AND ESTABLISHMENT WORKS, including but not limited to:

- Locate, prove and protect all on site services;
- Silt control;
- Transportation of materials, tools, plat etc. to site;
- Provide and maintain work facilities;
- Secure site entry points and storage areas with fencing;
- Protect all existing trees on site;
- Prepare, submit and implement Construction Environmental Management Plans (CEMP);
- Set out of all works by a qualified surveyor; and
- Collection, removal and legal disposal of site rubbish and debris.

CONSTRUCTION PHASE WORKS, including but not limited to:

- All works to be constructed strictly as per the detailed drawings without prior written request and consent of the Superintendent;
- All structural works to be constructed strictly as per the detailed drawings without prior written request and consent of the Structural Engineer;
- All bulk earthworks including excavation, fill and compaction as required;
- Excavation, trim and compaction to landscape and paving areas to achieve all finished levels;
- Concrete colored pavements and subbase;
- Brick supply and installation to slabs to two lines as shown;
- Steel light poles and footings;
- Shop drawings supply for Structural Engineers approval; and
- Supply and installation Corten Steel structure, including all decorative image coordination and cutting works, footings and fixings (unless advised not in scope by NBC).

WORKS BY OTHERS

- All planting bed preparation, supply, mulch and planting works.

COMMISSIONING PHASE WORKS, including but not limited to:

- Gaining practical completion of all works;
- Make any amendment to works to gain practical completion of all works; and
- Make good all disturbed areas, facilities or services as per defects.

DEFECTS PERIOD, including but not limited to:

- Ensure constructed works are in perfect condition and all fixings are tight for 104 weeks defects period. A final defects inspection will be held at the 104 weeks for Final Completion.

1.5 Setting Out of the Works

Dimensions shall not be obtained by scaling from these drawings. All set out of the works shall be undertaken by a certified and qualified surveyor. The Contractor shall determine and locate station sites as marked on the Drawings, and determine and establish any and all reference points as required to set out the works. The reference points shall not be disturbed by the Contractor's works.

The Contractor shall be responsible for accurately setting out the work in accordance with the drawings and survey information supplied, permanently marking nominated key set out points and checking works in progress. The Contractor is to establish and mark the horizontal alignments / chainage lines, retaining walls, stairs and any and all other features as required, in accordance with Drawings.

Within 7 days after the Date of Acceptance of Tender, the Contractor will be supplied with a digital CAD file copy of the Drawings, for use by the Contractor's surveyor to electronically determine and set out all works using total station survey equipment. The Contractor's surveyor is to determine Northing and Easting coordinate information from the supplied digital files, for use in setting out the nominated points on site.

All TBM's and control points are to be maintained and protected at all times during construction. Should any marks be disturbed, the Contractor will immediately notify the Superintendent to arrange reinstatement at the Contractors expense. The Contractor shall seek approval from the Superintendent immediately once the lines have been set out and before any excavation or other work is carried out.

It is the Contractors responsibility to check and prove all design drawings and levels on site to ensure no discrepancies are found, prior to commencement of construction of works, and does not in any way limit the Contractors responsibility to complete the works in accordance with the intent of the design. Should the Contractor discover any major error or discrepancy in the lines on the plan or the site, they shall immediately notify the Superintendent and await advisement before proceeding with the affected works.

1.6 Inspection of Works

Set out of all contract works requires inspection and on site amendments to set out as instructed by the Superintendent or their representative. Following on site approval being gained, the contractor must seek and gain written approval from the Superintendent to proceed with construction of the inspected area(s) or sections of works. The Contractor is to determine and setout logical and sequential sections of stairs for construction, provide adjustments as required, and gain subsequent written approval of the Superintendent to proceed with construction of that section. This setout sequence is to be submitted in the Contractor's Construction Program. It is the responsibility of the contractor to ensure all works are set out accurately and have gained approval from the Superintendent, prior to commencement of construction.

The contractor is not to proceed with any excavation of any kind until written approval of the Superintendent is received. Any works completed without written approval of the Superintendent will be subject to inspection, and if deemed to be inaccurate or inadequate, the Superintendent will issue written instructions that the area of work will be reset, removed or reconstructed as required solely at the contractors cost, and subject to the Superintendents satisfaction. No changes to the approved setout will be agreed to without prior written approval of the Superintendent. Any agreed variations or amendments to the approved set out requires prior approval from the Superintendent, and such changes will not be considered variations to the works.

1.7 Standards

All work shall be carried out in accordance with industry best practice and comply with current, relevant Australian Standards. All materials and equipment must comply with the requirements of the Specification or, where not specified, with the requirements of the relevant Australian Standards and the Manufacturer's Specifications.

1.8 Site Protection

Prior to commencement of works on site the Contractor shall obtain the required Northern Beaches Council permit to work and submit and gain written approval for the site works program and Site Construction Environmental Management Plan in accordance with all relevant standards and guidelines. Appropriate silt control is to be maintained at all times. The site is to be managed and maintained by the Contractor in strict accordance with these approved plans and all other statutory responsibilities for the period of the works.

The Contractor shall be responsible for clearly defining the works area and maintaining any temporary fences or barriers, lighting and signage or other site controls or devices as required to avoid any risk or injury to the public at all times. The Contractor is required to install and maintain until Practical Completion temporary chain link mesh fencing to the entire works area.

The Contractor must ensure fencing is securely erected to all cliff edges, during any works in these areas.

The Contractor must comply with Australian Standards with regards to harness use by qualified personnel at all times in proximity to high risk fall zones.

The Contractor at their own discretion shall at all times do everything necessary to ensure the safety and freedom from injury, damage or interference of all of the adjacent lands, properties, ways, services whatsoever and of public persons at any time in the vicinity of the site and shall carry out and provide such shoring or other protective and precautionary measures as may be necessary for any of the purposes aforesaid.

The Contractor shall at all times take all reasonable steps to minimise nuisance to others, (including nuisance from noise, dust, debris and obstructions) arising from the works and shall promptly comply with all reasonable requests from the Superintendent and or from such persons authorised for the cessation of such nuisance.

The Contractor shall be responsible for bearing the cost of making good any damage to existing fencing, infrastructure, buildings, paths, surfaces, landscaping, underground services and overhead services, whether or not these are shown on the drawings. It is the sole responsibility of the Contractor to locate, prove and protect all services and to liaise with the relevant authority and to make the necessary provisions as required for protection in accordance with the specification. All work shall be in accordance with councils OH&S policy & safety procedures. Appropriate safety signs shall be installed at all times.

1.9 Superintendent and Specialist instruction

The Superintendent may engage specialists to provide expert advice and opinion to assist the Superintendent. These specialists may include, but not be limited to landscape architect or structural engineer.

The role of these specialists is to provide advice and opinion to the Superintendent. The Contractor shall not receive or act on instructions from these specialists without the prior written instruction from the Superintendent.

Any agreed actions between the Superintendent and the specialists shall be communicated to the Contractor by the Superintendent and provided as written instruction to the Contractor from the Superintendent.

2.0 GLAZED BRICKS

2.1 Nominated Supplier: PGH Bricks & Pavers

Schofields Bricks & Roofing Selection Centre, Selection Centre of PGH Bricks, Monier Roofing and Cultured Stone, 75 Townson Road, Schofields, 2762

Tel: 02 9852 6807, Email: NSWcustomerservice@pghbricks.com.au

'Urban Metal: Silver Spark' Fully Glazed Bricks
230mm(l) x 110mm(w) x 76mm(d)

3.0 COMPLETION OF WORKS (PRACTICAL COMPLETION)

3.1 General

a) The Contractor shall give at least five working days notice to the Superintendent that the works have been completed, and that the area is ready for Practical Completion (PC) inspection. The area will be inspected and any work found not to be in accordance with the Specification shall be rectified by the Contractor at no cost to the Principal.

b) Further PC inspections will be undertaken as required by the Superintendent until all work has been completed by the Contractor is in accordance with the Specification.

c) When the Superintendent is satisfied that the works has been carried out in accordance with the Specification, the Superintendent will notify the Contractor in writing when Practical Completion has been achieved for, whereupon the 52 week Defects Liability Period shall commence.

4.0 Supervision and Mandatory Hold Points

a) The Contractor shall supervise and administer the whole of the Works, and shall nominate and keep upon the site works a competent general foreperson authorised to receive and carry out instructions from the Superintendent. Full contact details, including mobile phone number, of the Site Foreperson is to be supplied to the Superintendent prior to commencing works.

b) The Contractor is to notify the Superintendent at least 72 hours in advance of any required inspection. Failure to advise and gain an inspection of the works at the nominated stage may invalidate the works and require remediation of works to the satisfaction of the Superintendent, at sole cost of the Contractor.

c) Major Hold Points / Site Inspections will be required at regular intervals to confirm completion of works. The Contractor and Superintendent will attend these inspections with representatives from Northern Beaches Council as required.

d) Additional random site inspections will be completed by the Superintendent and Contractor through the 52 week Defects Liability Period as required. These meetings will confirm the defects liability requirements to be completed by the Contractor for the month following the meeting in accordance with the specification.

5.0 DEFECTS LIABILITY PERIOD

5.1 General

Defects Liability for all constructed works is 102 weeks, following confirmation in writing by the Superintendent. During the Defects Liability Period, the Contractor shall ensure that all hard landscape works are maintained including tightening of all bolts and fixings, etc.

5.2 Defects Liability Requirements

All defects liability works required will be directed or approved of by the Superintendent in writing prior to completion. The Contractor must obtain the Superintendent's approval in writing for any variations to the defects liability work that is to be paid for by the Principal, before it is carried out.

5.3 Expiry of Defects Liability Period

(a) Approximately two weeks prior to the expiry of the Maintenance Period, and two weeks prior to the expiry of the Defects Liability Period, the Superintendent shall arrange with the Contractor an inspection of the site with Northern Beaches Council, and any work found not to be in accordance with the Specification and which in the opinion of the Superintendent is within the control of the Contractor, shall be rectified by the Contractor at no cost to the Principal.

The Superintendent will undertake subsequent inspections as required to confirm satisfactory completion of any outstanding maintenance works prior to certification in writing of Final Completion.



WARNING

BEWARE OF UNDERGROUND SERVICES

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GENERAL NOTES:
Services shown hereon have been located by field survey. Further services may be present. Prior to any construction or excavation on site the relevant authorities should be contacted for possible location of further underground services and detailed locations of all services.

DATE	REV	AMENDMENT
01/05/20	T1	TENDER ISSUE FOR COUNCIL REVIEW
11/06/20	T2	FINAL TENDER ISSUE

PROJECT TITLE Ivanhoe Park Interpretation Entry DD	
CLIENT	DRAWING NAME
SPECIFIED NOTES	
THOMPSON BERRILL LANDSCAPE DESIGN P/L	

SCALE BAR	
SCALE	
DATE	JUNE 2020
DESIGN	GB
DRAWN	YL/SC
CHECKED	GB
DATUM	AHD
PLAN No.	
PIE-DD-01	

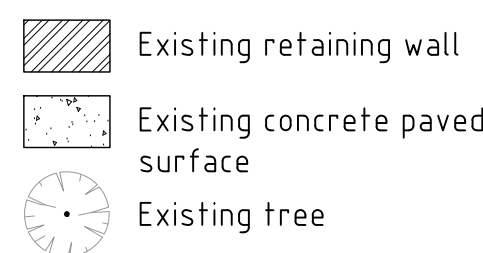
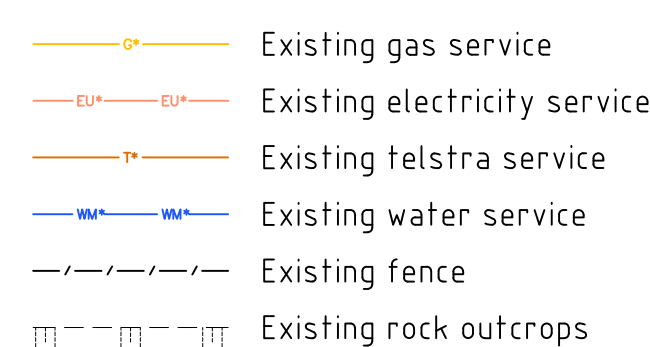
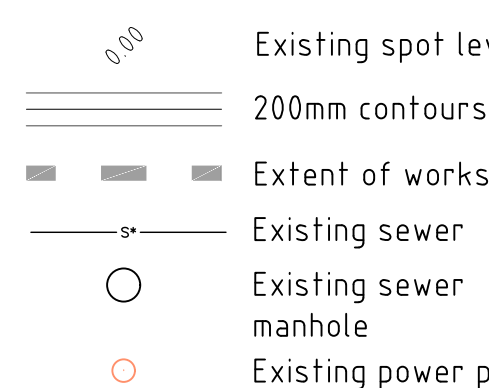


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DRAWING KEY



Survey Source: Northern
Beaches Council



 **C.M.S. Surveyors**
Pty Limited
ACN: 096 240 201
PO Box 463 Dee Why NSW 2099
2/99A South Creek Road, Dee Why NSW 2099
Telephone: (02) 9971 4802 Facsimile: (02) 9971 4822
E-mail: info@cmsurveyors.com.au

[illegible]

PROJECT TITLE
Ivanhoe Park Interpretation Entry DD

CLIENT

 northe
 beach

DRAWING NAME

EXISTING CONDITIONS PLAN



THOMPSON
PO BOX 665 MANLY NSW 2204

ERRILL
T-02-0037-6444LANDSCAPE DESIGN P/L
 info@h14.com.au

SCALE BAR

SCALE	1:200@A3
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DATE	JUNE 202
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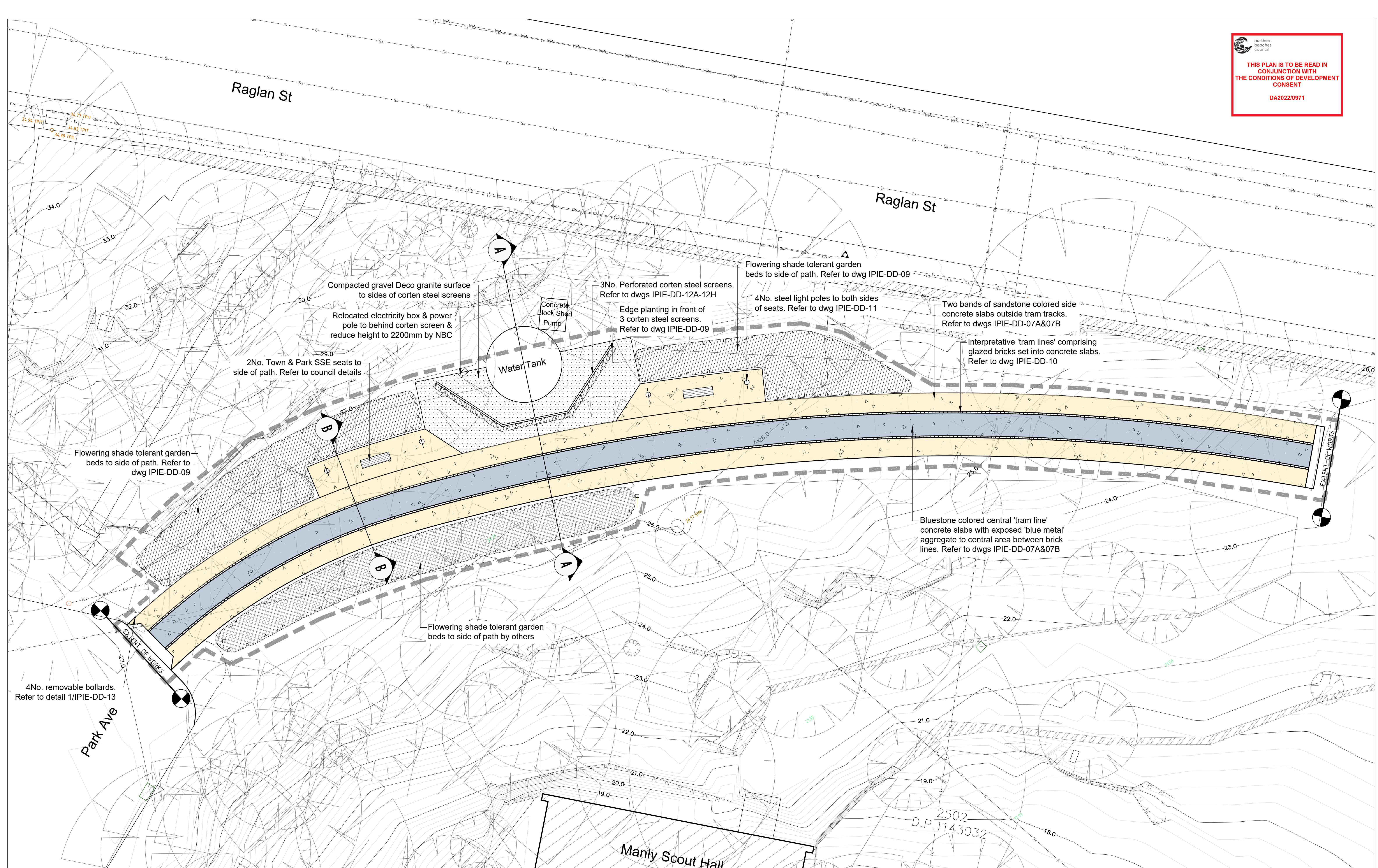
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DATUM

PLAN No.
IPIE-DD-02

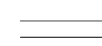
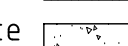
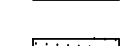
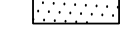
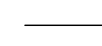


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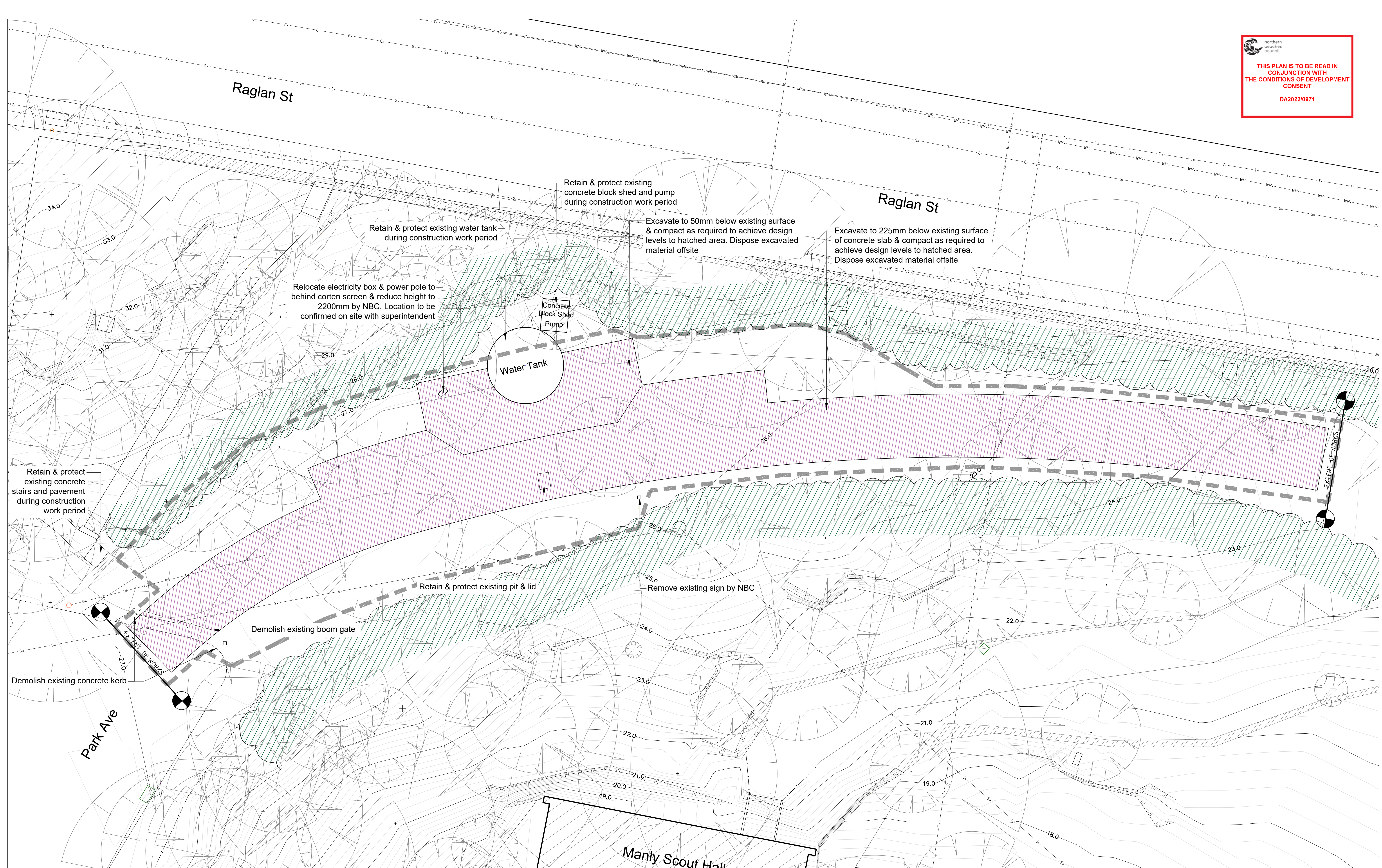
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DRAWING KEY

	Existing spot level		Existing gas service		Existing retaining wall		Proposed bluestone colored central concrete slab
	200mm contours		Existing electricity service		Existing concrete paved surface		Proposed gravel surface
	Extent of works		Existing telstra service		Existing tree		Proposed glazed bricks
	Existing sewer		Existing water service		Proposed sandstone colored side concrete slab		
	Existing sewer manhole		Existing fence				
	Existing power pole		Existing rock outcrops				

DATE	REV	AMENDMENT
01/05/20	T1	TENDER ISSUE FOR COUNCIL REVIEW
11/06/20	T2	FINAL TENDER ISSUE

PROJECT TITLE Ivanhoe Park Interpretation Entry DD			SCALE BAR	
CLIENT  northern beaches council	DRAWING NAME GENERAL LAYOUT PLAN		SCALE 1:200@A3	
 PO BOX 665 MANLY NSW 2095 T: 02 9977 6444 E: info@tbd.com.au		DATE JUNE 2020		
		DESIGN GB		
		DRAWN YL/SC		
		CHECKED GB		
		DATUM AHD		
		PLAN No.		
		IPIE-DD-03		



WARNING
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DRAWING KEY

Existing spot level	Existing gas service	Existing retaining wall	Retain & protect existing vegetation and tree root structure
200mm contours	Existing electricity service	Existing concrete paved surface	
Extent of works	Existing telstra service	Existing tree	
Existing sewer	Existing water service	Existing fence	
Existing sewer manhole	Existing fence	Minor earthworks in preparation for proposed surface grading & design levels	
Existing power pole	Existing rock outcrops		

DATE	REV	AMENDMENT
01/05/20	T1	TENDER ISSUE FOR COUNCIL REVIEW
11/06/20	T2	FINAL TENDER ISSUE

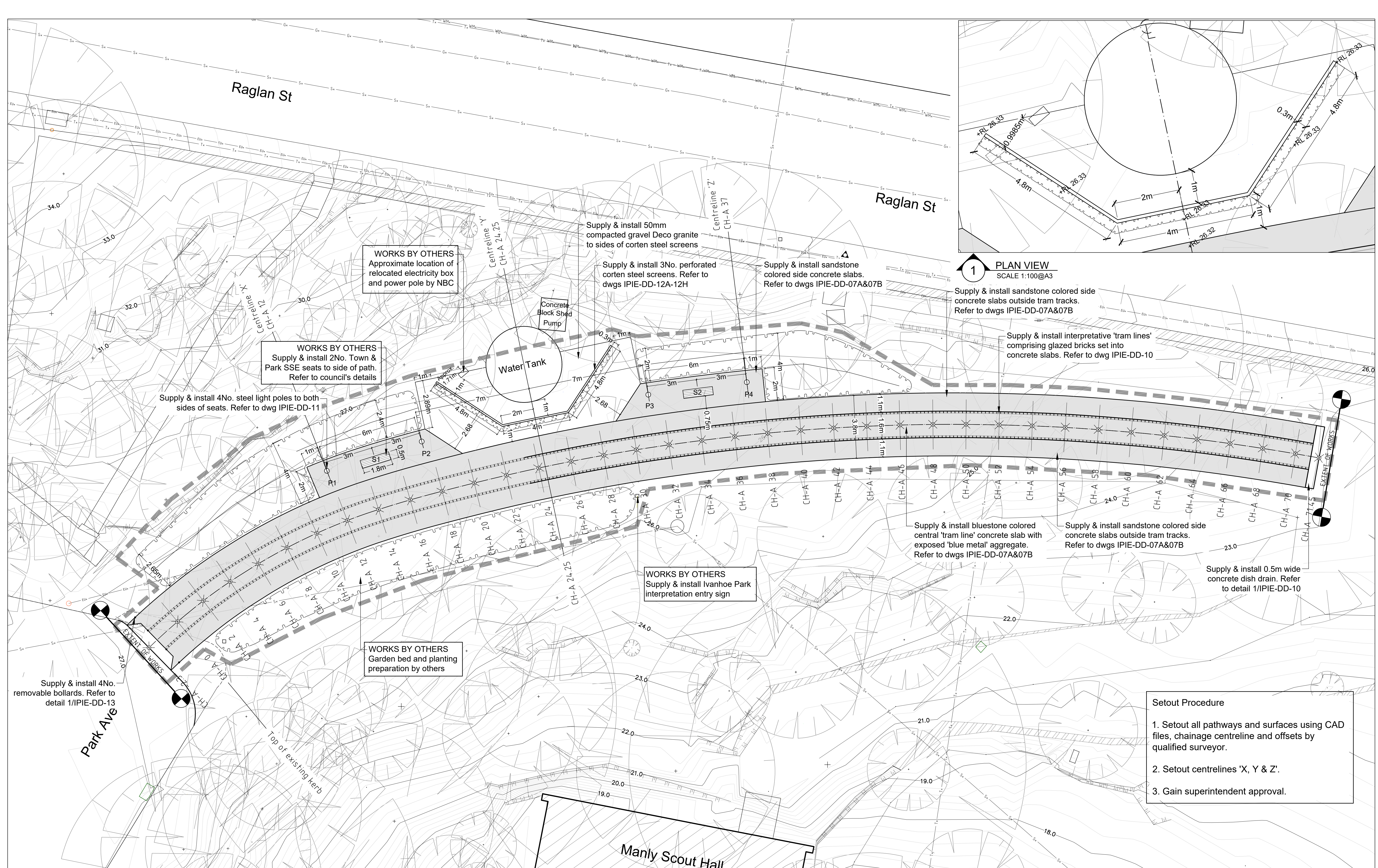
PROJECT TITLE
Ivanhoe Park Interpretation Entry DD

CLIENT
DRAWING NAME
ACCESS, PROTECTION & DEMOLITION PLAN

DATUM
AHD

PLAN No.
IPIE-DD-04

SCALE BAR	
SCALE	1:200@A3
DATE	JUNE 2020
DESIGN	GB
DRAWN	YL/SC
CHECKED	GB
DATUM	AHD
PLAN No.	IPIE-DD-04



1 PLAN VIEW
SCALE 1:100@A3

Supply & install sandstone colored side concrete slabs outside tram tracks. Refer to dwgs IPIE-DD-07A&07B

Supply & install interpretative 'tram lines' comprising glazed bricks set into concrete slabs. Refer to dwg IPIE-DD-10

Supply & install bluestone colored central 'tram line' concrete slab with exposed 'blue metal' aggregate. Refer to dwgs IPIE-DD-07A&07B

Supply & install sandstone colored side concrete slabs outside tram tracks. Refer to dwgs IPIE-DD-07A&07B

Supply & install 0.5m wide concrete dish drain. Refer to detail 1/IPIE-DD-10

- Setout Procedure**
1. Setout all pathways and surfaces using CAD files, chainage centreline and offsets by qualified surveyor.
 2. Setout centrelines 'X, Y & Z'.
 3. Gain superintendent approval.



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DRAWING KEY	
	Existing spot level
	200mm contours
	Extent of works
	Existing sewer
	Existing sewer manhole
	Existing power pole
	Existing gas service
	Existing electricity service
	Existing telstra service
	Existing water service
	Existing fence
	Existing rock outcrops
	Existing retaining wall
	Existing concrete paved surface
	Existing tree
	All proposed concrete slab surfaces

THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE CONDITIONS OF DEVELOPMENT CONSENT
DA2022/0971

DATE	REV	AMENDMENT
01/05/20	T1	TENDER ISSUE FOR COUNCIL REVIEW
11/06/20	T2	FINAL TENDER ISSUE

PROJECT TITLE
Ivanhoe Park Interpretation Entry DD

CLIENT

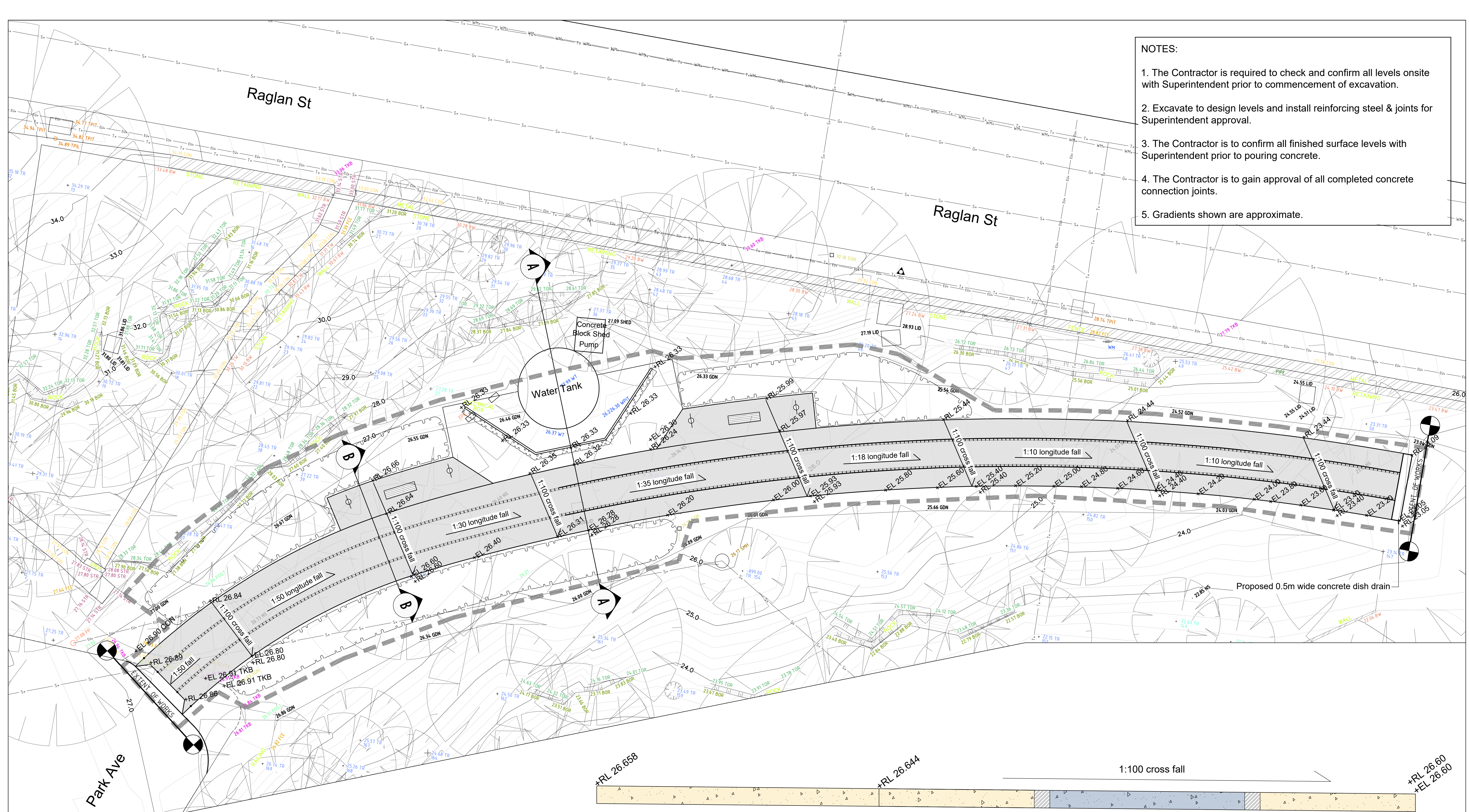
DRAWING NAME
SETOUT PLAN

THOMPSON BERRILL LANDSCAPE DESIGN P/L
PO BOX 665 MANLY NSW 2095 T: 02 9977 6444 E: info@tbd.com.au

SCALE BAR	
SCALE	1:200@A3
DATE	JUNE 2020
DESIGN	GB
DRAWN	YL/SC
CHECKED	GB
DATUM	AHD
PLAN No.	IPIE-DD-05

NOTES:

1. The Contractor is required to check and confirm all levels onsite with Superintendent prior to commencement of excavation.
2. Excavate to design levels and install reinforcing steel & joints for Superintendent approval.
3. The Contractor is to confirm all finished surface levels with Superintendent prior to pouring concrete.
4. The Contractor is to gain approval of all completed concrete connection joints.
5. Gradients shown are approximate.



1 TYPICAL SECTION BB
SCALE 1:25@A3

THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE CONDITIONS OF DEVELOPMENT CONSENT
DA2022/0971



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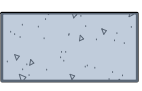
DRAWING KEY	
	Existing spot level
	200mm contours
	Extent of works
	Existing sewer
	Existing sewer manhole
	Existing power pole
	Existing gas service
	Existing electricity service
	Existing telstra service
	Existing water service
	Existing fence
	Existing rock outcrops
	Existing retaining wall
	Existing concrete paved surface
	Existing tree
	Proposed cross fall on concrete slab
	All proposed concrete slab surfaces

DATE	REV	AMENDMENT
01/05/20	T1	TENDER ISSUE FOR COUNCIL REVIEW
11/06/20	T2	FINAL TENDER ISSUE

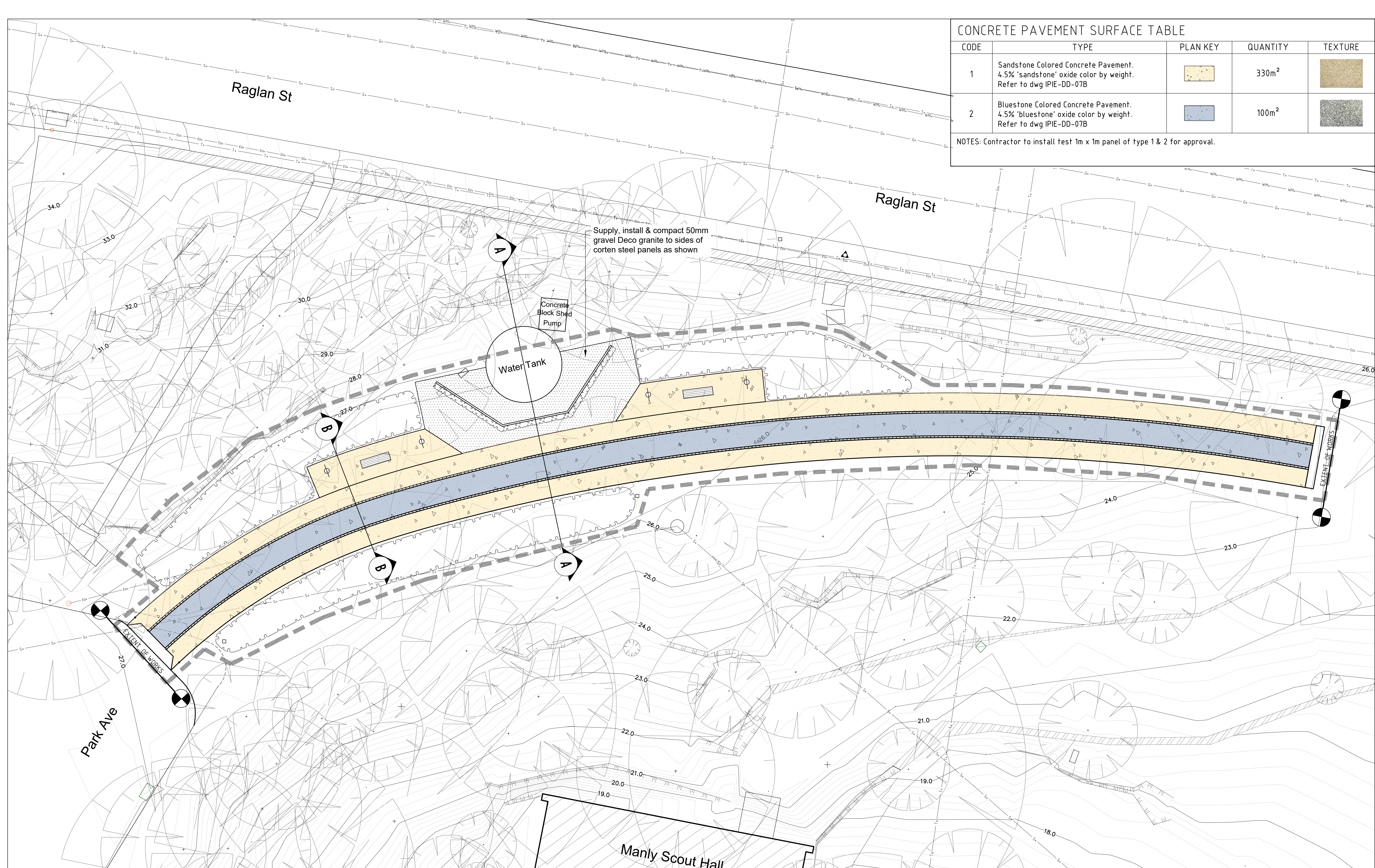
PROJECT TITLE	
Ivanhoe Park Interpretation Entry DD	
CLIENT	DRAWING NAME
	LEVELS, GRADING & DRAINAGE PLAN
THOMPSON BERRILL LANDSCAPE DESIGN P/L	
PO BOX 665 MANLY NSW 2095 T: 02 9977 6444 E: info@tbd.com.au	

SCALE BAR	
SCALE	1:200@A3
DATE	JUNE 2020
DESIGN	GB
DRAWN	YL/SC
CHECKED	GB
DATUM	AHD
PLAN No.	IPiE-DD-06

CONCRETE PAVEMENT SURFACE TABLE

CODE	TYPE	PLAN KEY	QUANTITY	TEXTURE
1	Sandstone Colored Concrete Pavement. 4.5% 'sandstone' oxide color by weight. Refer to dwg IPIE-DD-07B		330m ²	
2	Bluestone Colored Concrete Pavement. 4.5% 'bluestone' oxide color by weight. Refer to dwg IPIE-DD-07B		100m ²	

NOTES: Contractor to install test 1m x 1m panel of type 1 & 2 for approval.



WARNING

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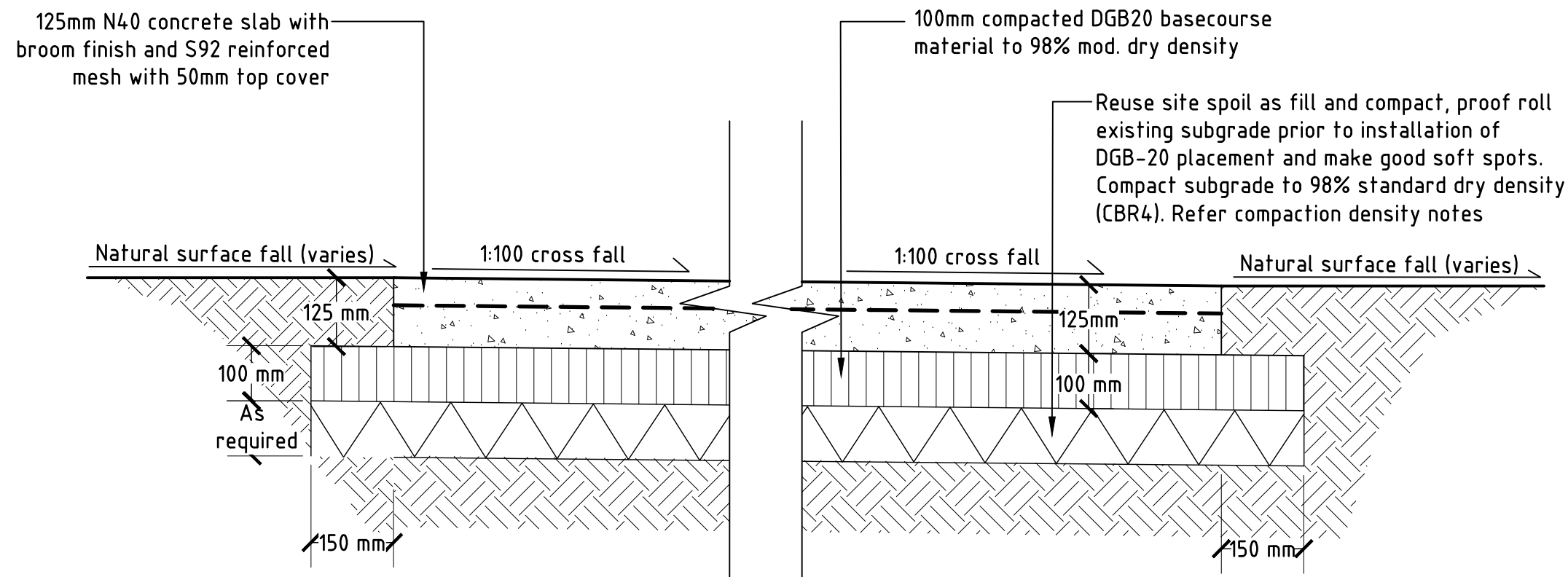
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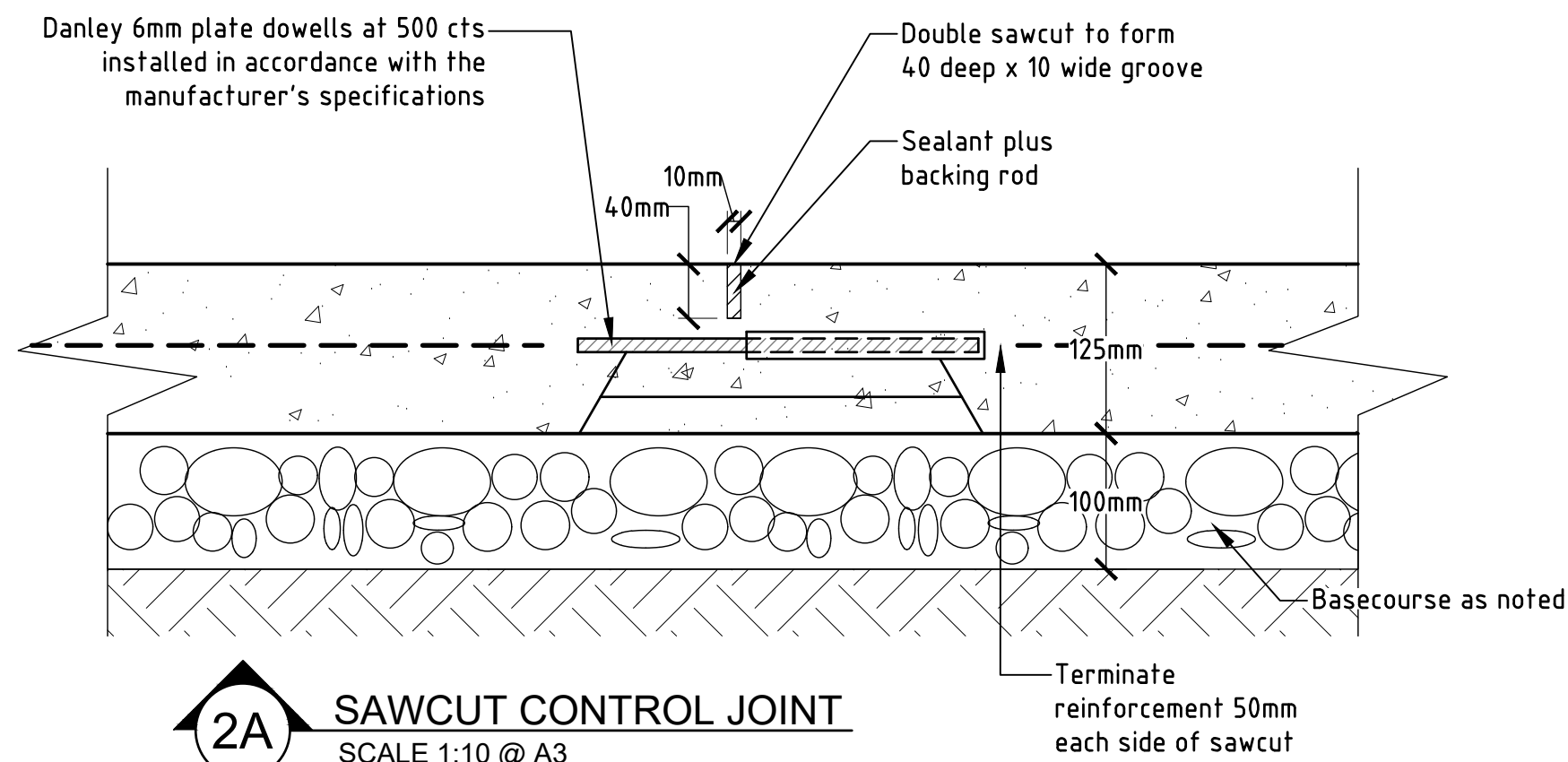
DATE	REV	AMENDMENT
01/05/20	T1	TENDER ISSUE FOR COUNCIL REVIEW
11/06/20	T2	FINAL TENDER ISSUE

PROJECT TITLE Ivanhoe Park Interpretation Entry DD	
CLIENT  northern beaches council	DRAWING NAME CONCRETE SURFACES PLAN
THOMPSON BERRILL LANDSCAPE DESIGN P/L PO BOX 665 MANLY NSW 2095 T: 02 9977 6444 E: info@tbd.com.au	

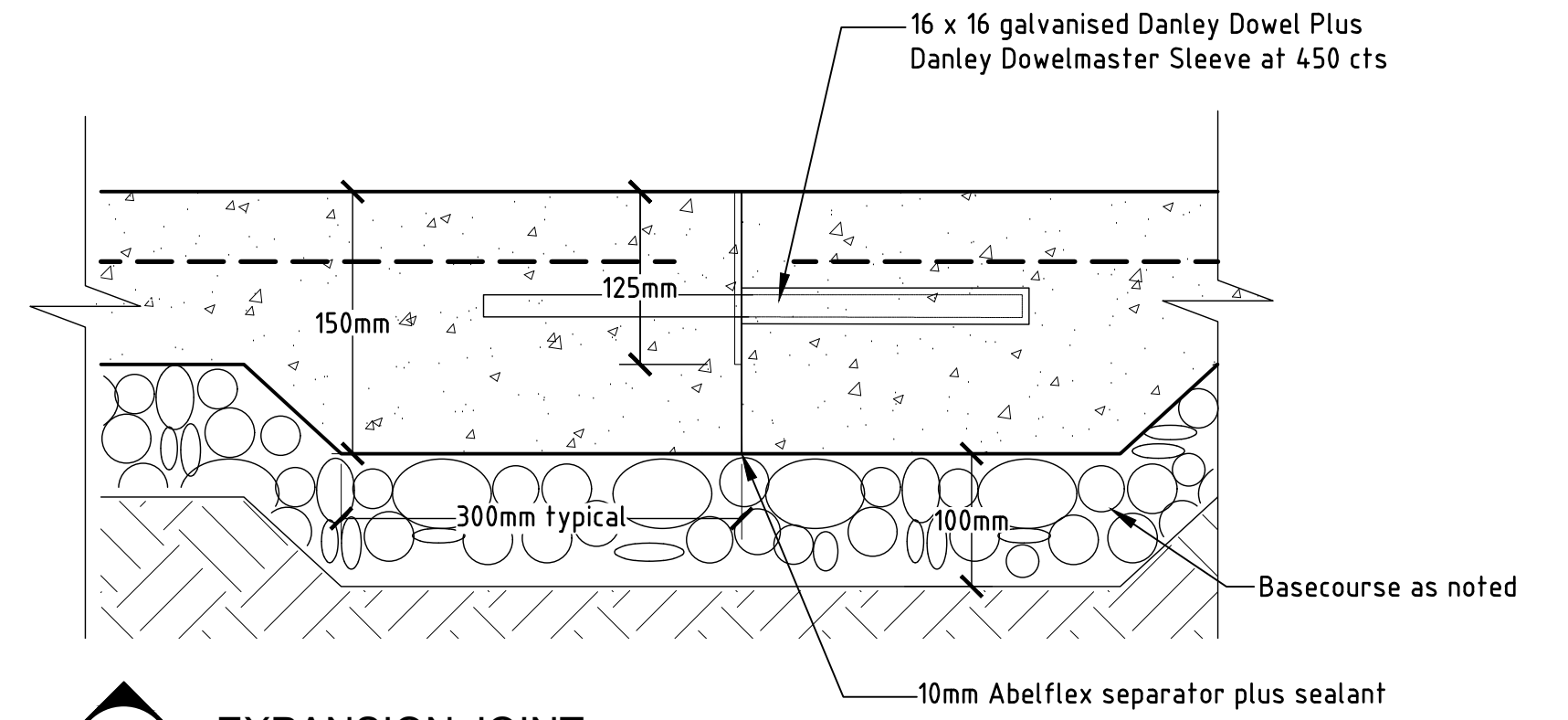
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DESIGN	GB
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DATUM	AHD
PLAN No.	IPIE-DD-07A



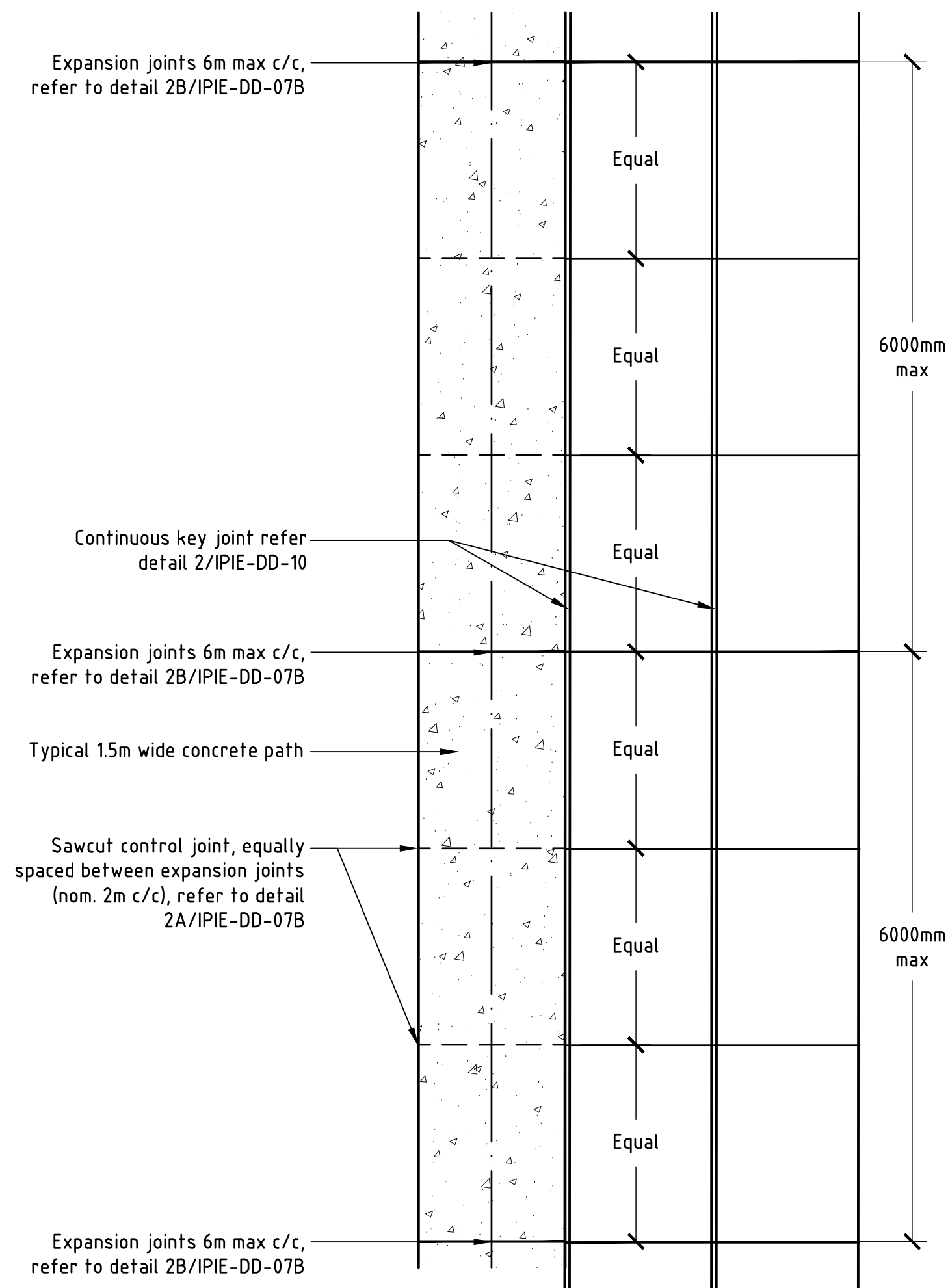
1 TYPICAL CONCRETE SLAB DETAIL
SCALE 1:20 @ A3



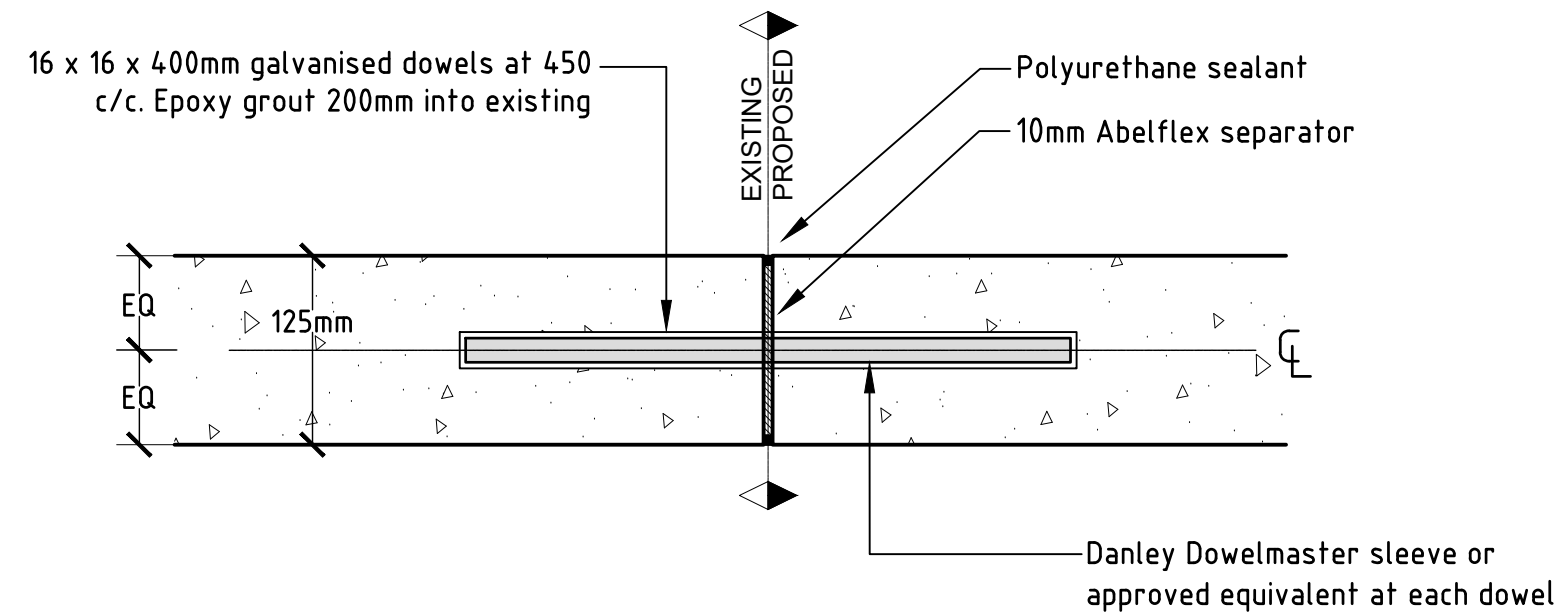
2A SAWCUT CONTROL JOINT
SCALE 1:10 @ A3



2B EXPANSION JOINT
SCALE 1:10 @ A3



3 TYPICAL CONCRETE PATH CONTROL JOINT PLAN
SCALE 1:100 @ A3



2C CONCRETE CONNECTION JOINT DETAIL
SCALE 1:5 @ A1

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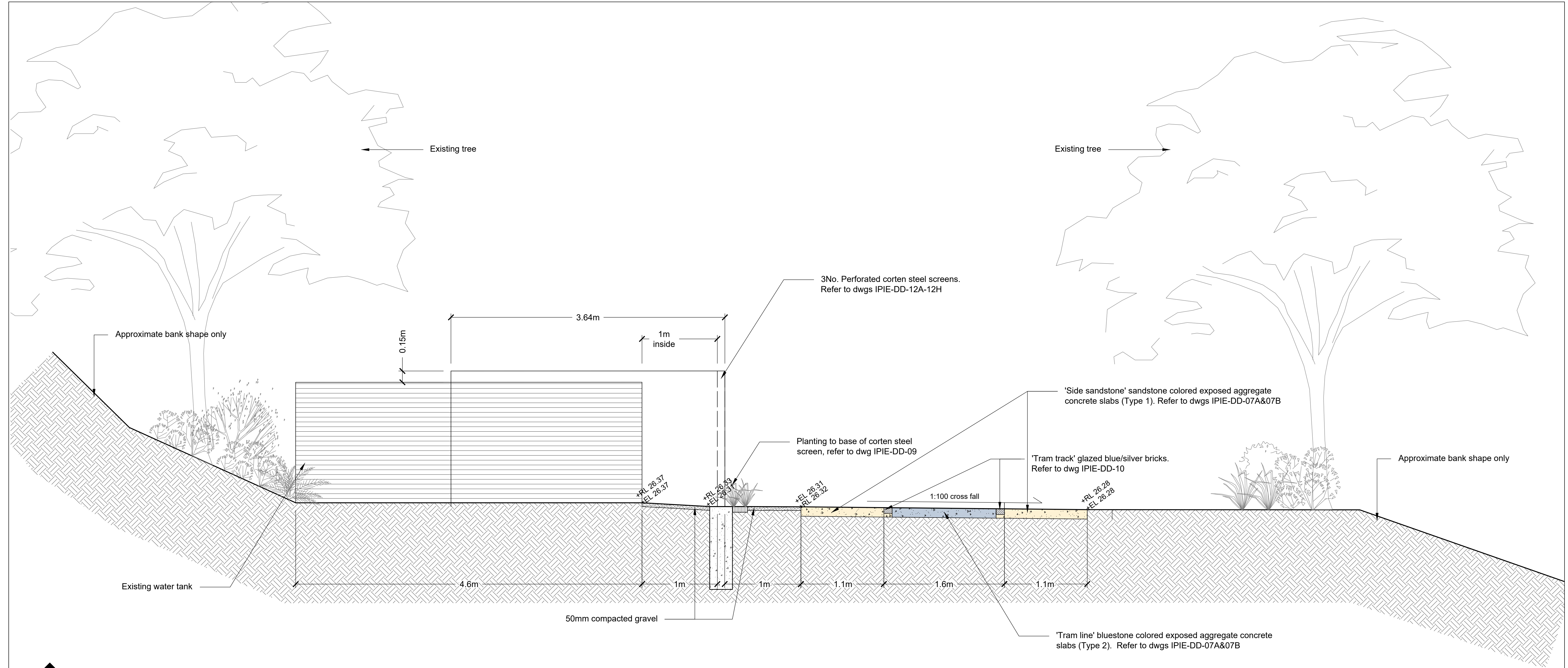
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PROJECT TITLE Ivanhoe Park Interpretation Entry DD	
CLIENT northern beaches council	DRAWING NAME CONCRETE DETAILS
THOMPSON BERRILL LANDSCAPE DESIGN P/L PO BOX 645 MANLY NSW 2095 T: 02 9977 4444 E: info@tbdld.com.au	

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1 SECTION AA
SCALE 1:50@A3

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PROJECT TITLE Ivanhoe Park Interpretation Entry DD	
CLIENT 	DRAWING NAME SECTION AA
 THOMPSON BERRILL LANDSCAPE DESIGN P/L PO BOX 665 MANLY NSW 2095 T: 02 9977 6444 E: info@tbd.com.au	

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DATUM	AHD
PLAN No.	IPIE-DD-08

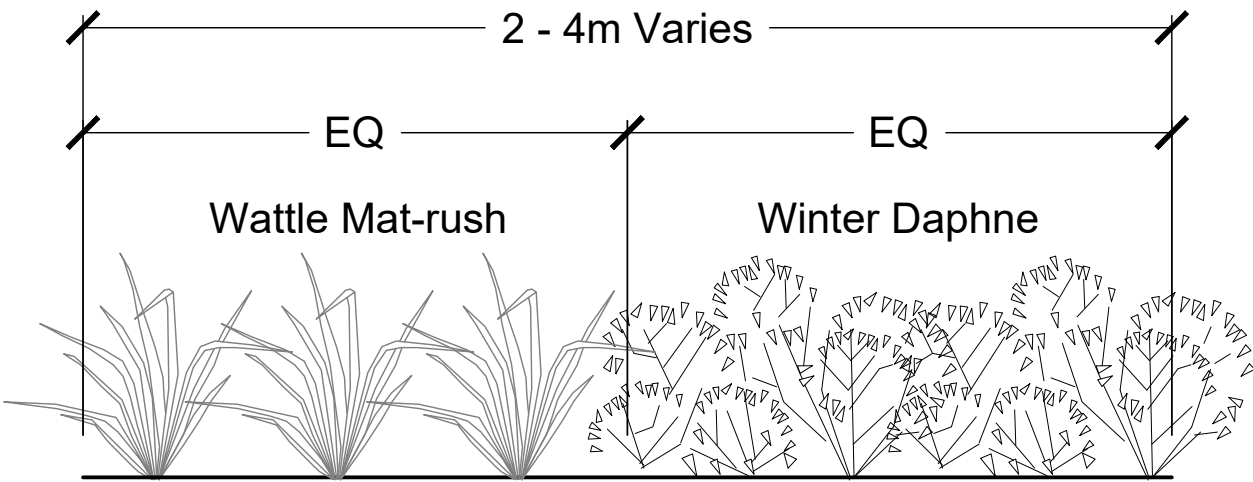
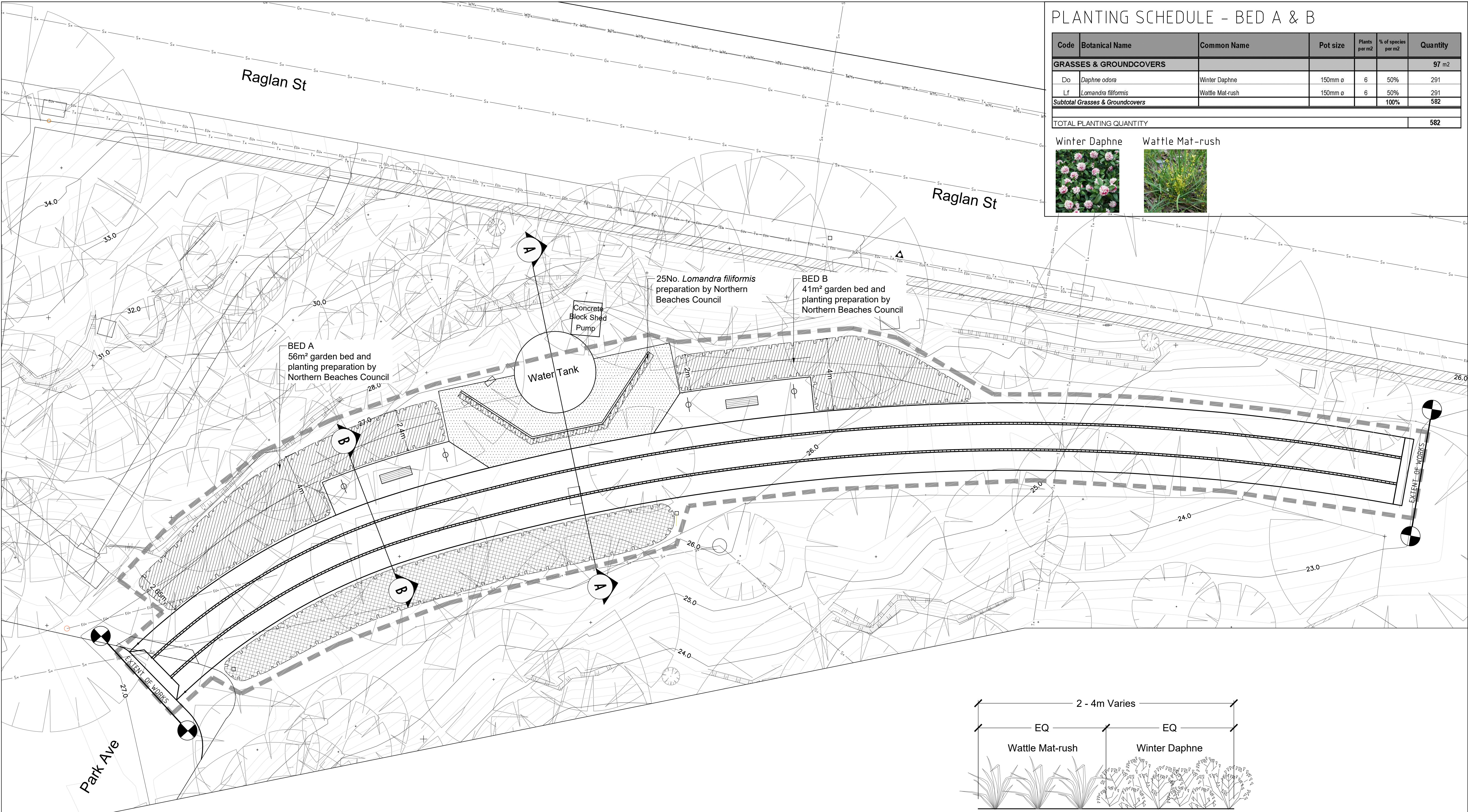
PLANTING SCHEDULE - BED A & B

Code	Botanical Name	Common Name	Pot size	Plants per m2	% of species per m2	Quantity
GRASSES & GROUNDCOVERS						97 m2
Do	<i>Daphne odora</i>	Winter Daphne	150mm ø	6	50%	291
Lf	<i>Lomandra filiformis</i>	Wattle Mat-rush	150mm ø	6	50%	291
Subtotal Grasses & Groundcovers					100%	582
TOTAL PLANTING QUANTITY						582

Winter Daphne



Wattle Mat-rush



1 PLANTING BED SECTION
SCALE 1:25@A3

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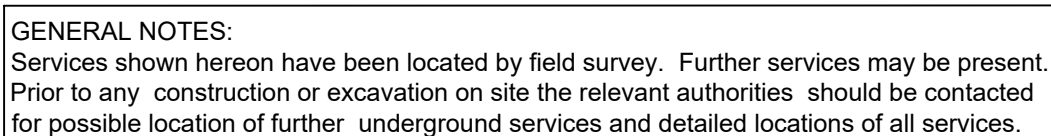
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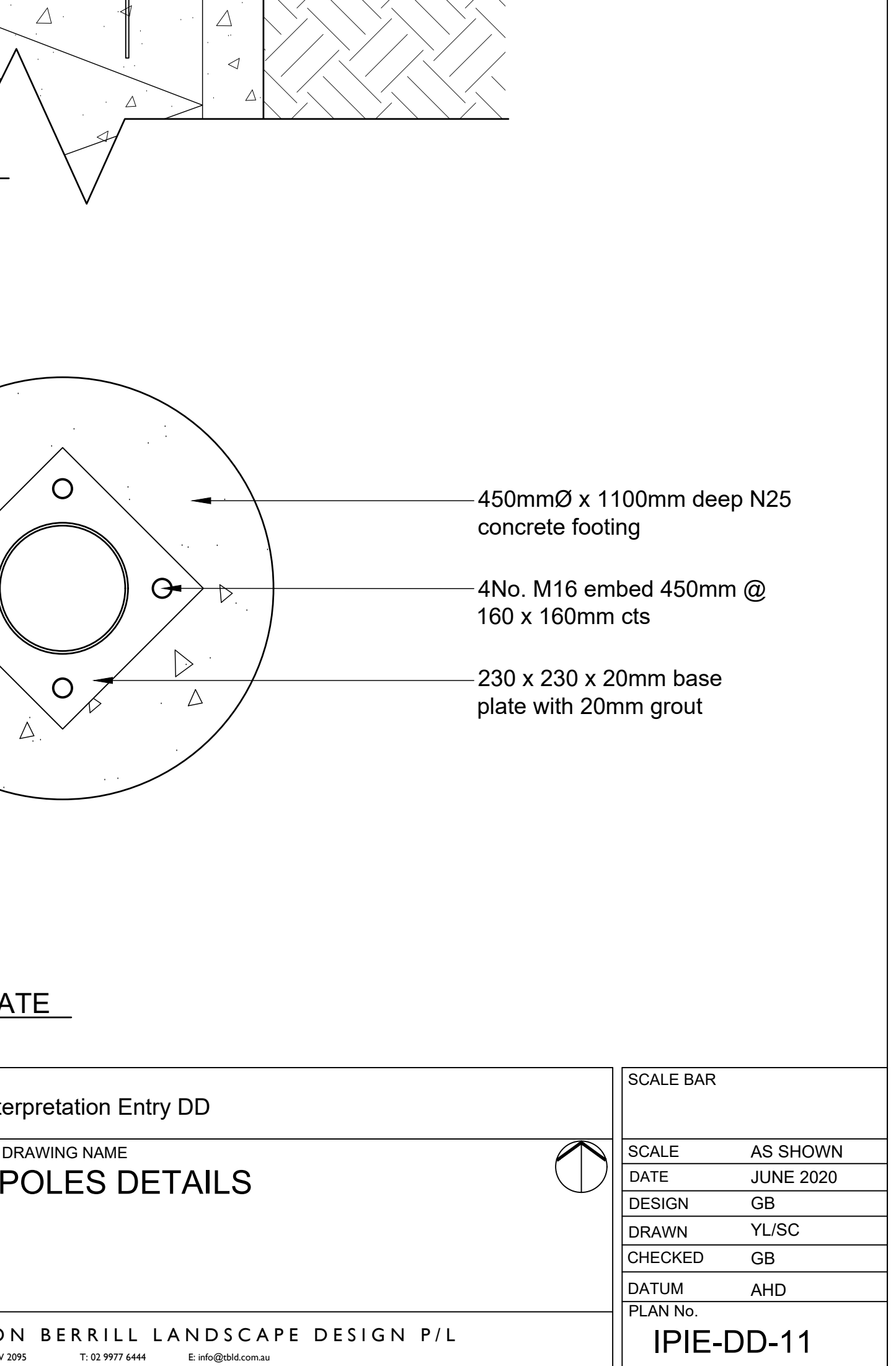
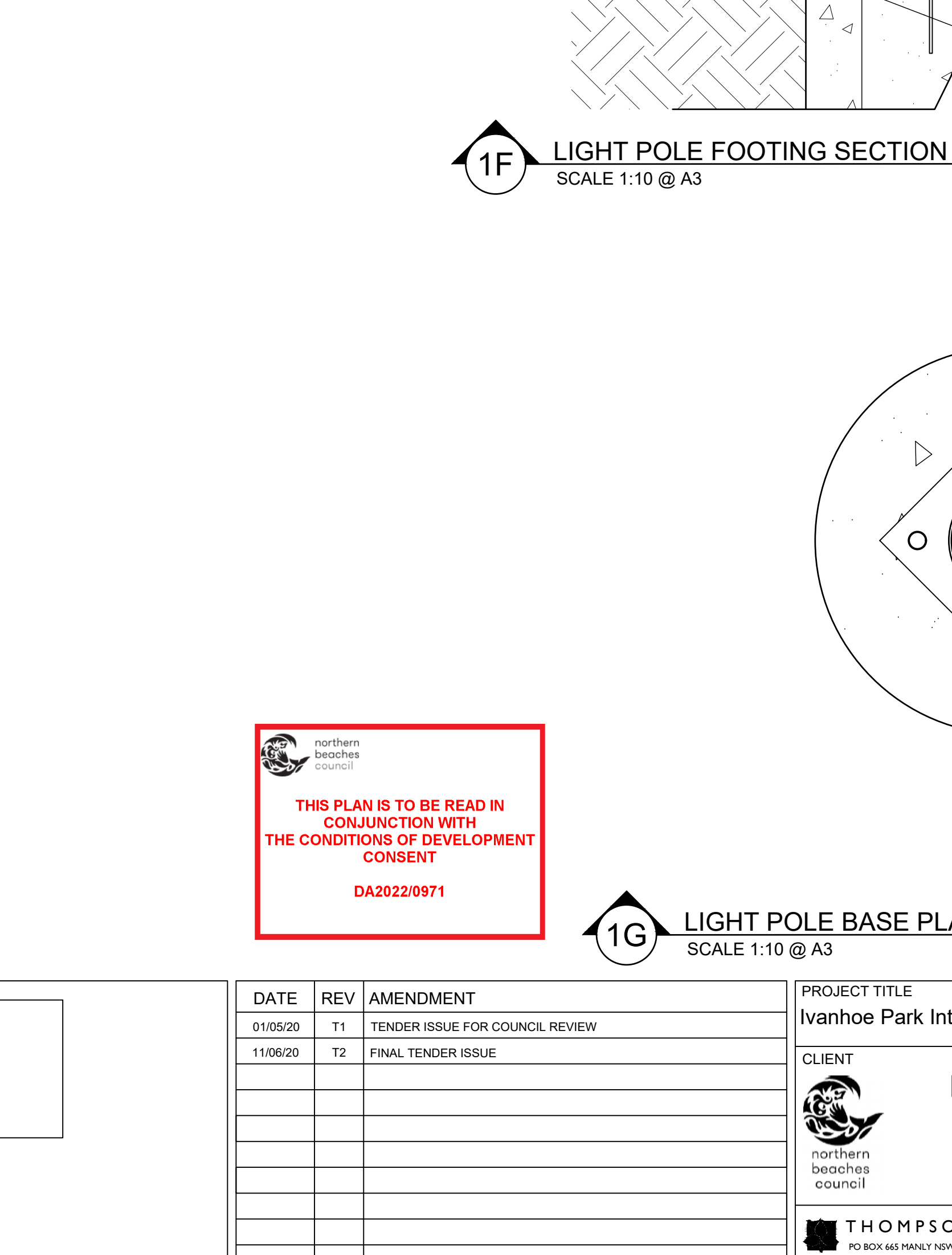
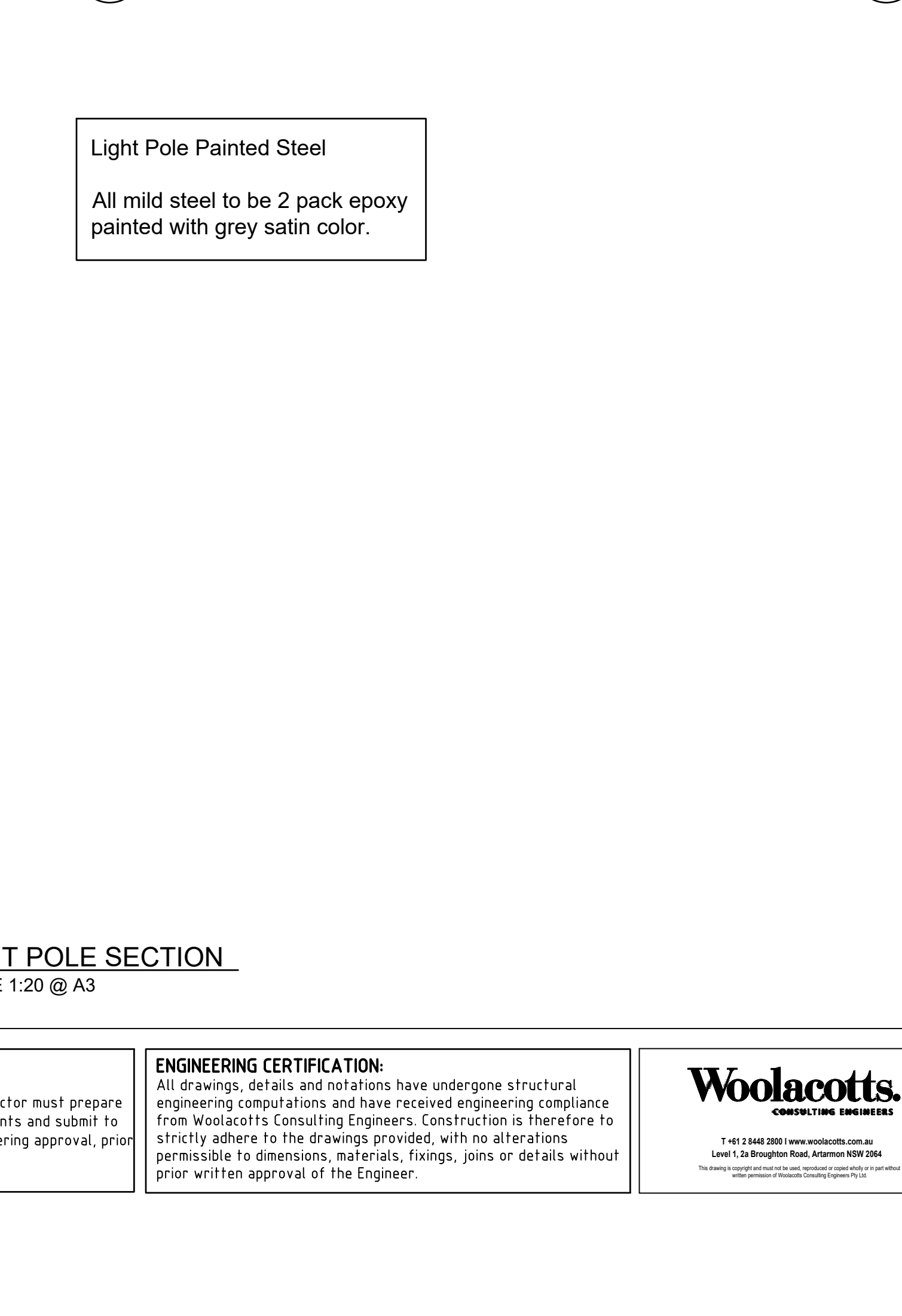
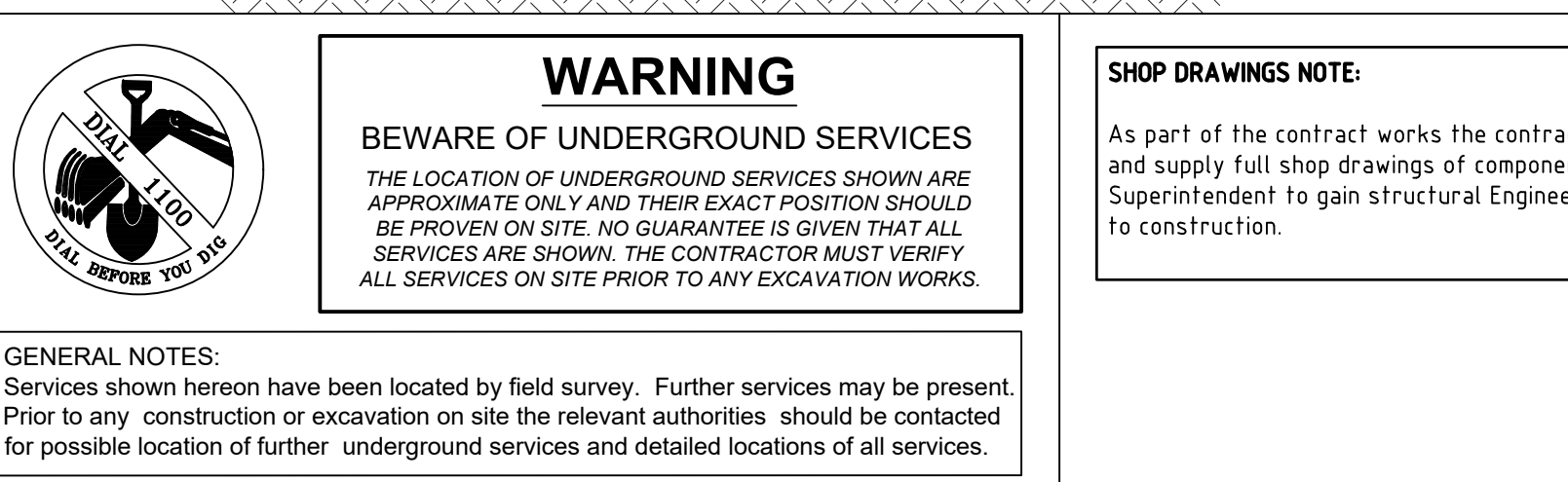
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PLAN No.	IPIE-DD-09







2 CORTEN PANELS ELEVATION VIEW
SCALE 1:50@A3

Panel 1: Horse Tram
(Refer drawing IPIE-DD-12E)

Panel 2: People
(Refer drawing IPIE-DD-12F)

Panel 3: Quotes
(Refer drawing IPIE-DD-12G)

4800 Front Face Dimension

4000 Front Face Dimension

4800 Front Face Dimension

1200 c/c

1000 c/c

1000 c/c

1200 c/c

2200

Panel 2 UB posts at 1000 c/c

Panel 1 + 3 UB posts at 1200 c/c

northern beaches council

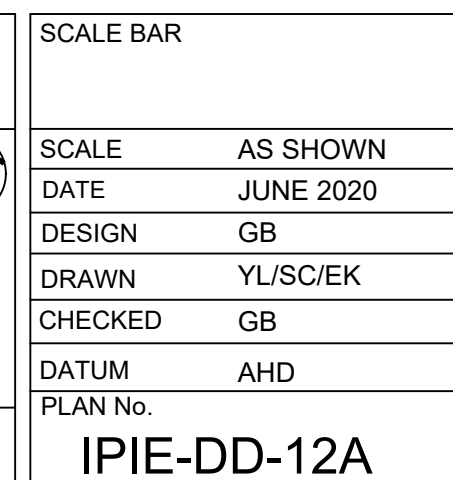
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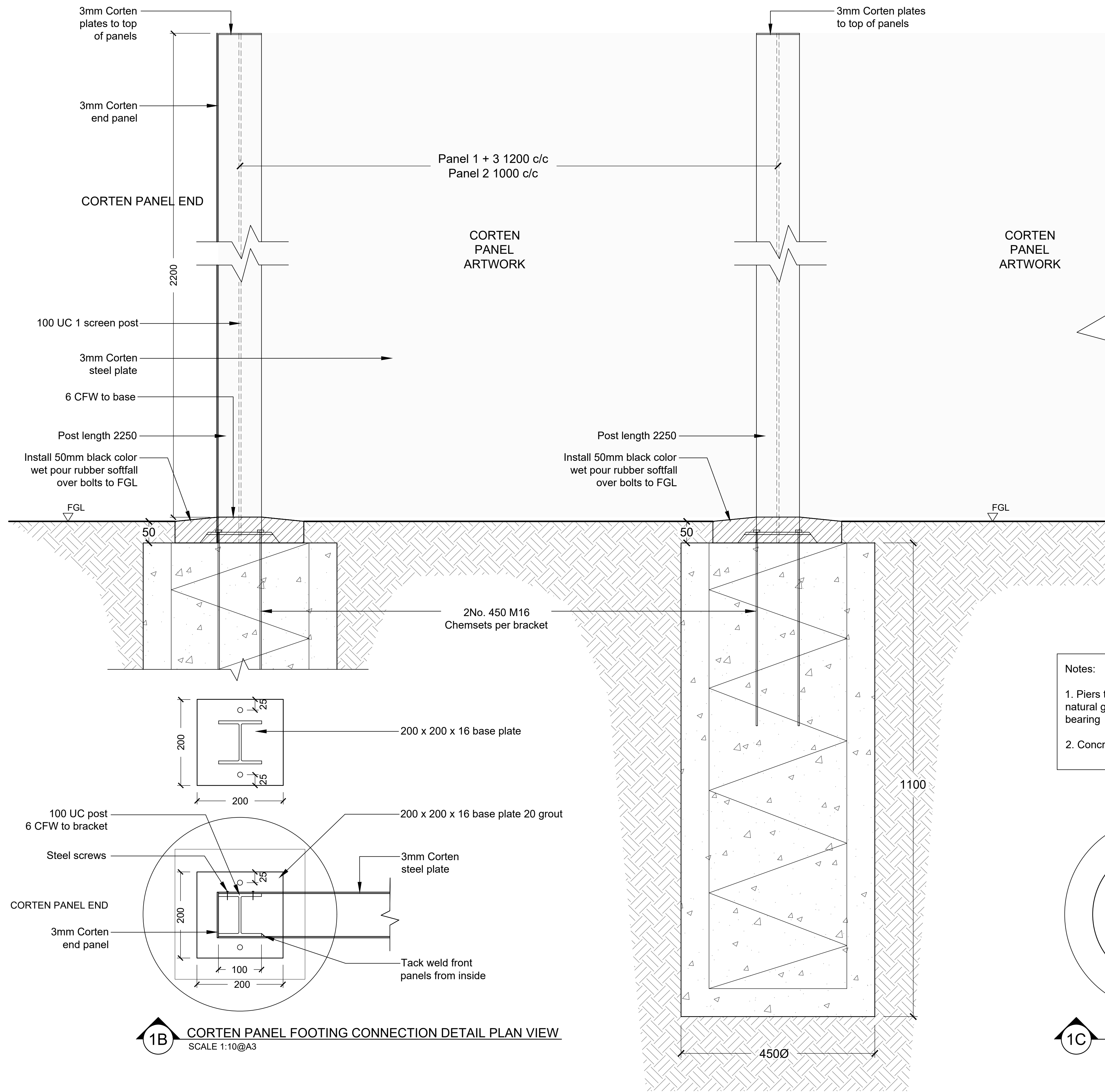
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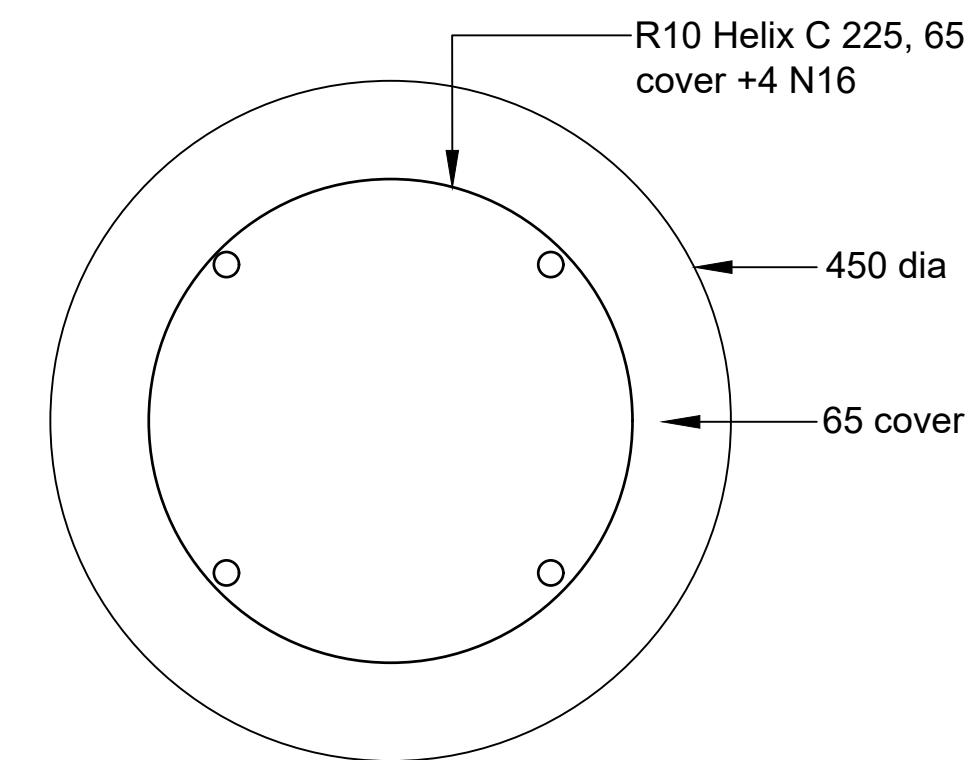


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1 CORTEN PANEL FOOTING & CONNECTION ELEVATION DETAIL
SCALE 1:10@A3

- Notes:
1. Piers to be founded in undisturbed natural ground with a minimum allowable bearing capacity to 100 kPa
 2. Concrete (piers) shall be grade N25



1C CORTEN PANEL FOOTING DETAIL
SCALE 1:10@A3

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PROJECT TITLE Ivanhoe Park Interpretation Entry DD	
CLIENT  northern beaches council	DRAWING NAME CORTEN INTERNAL STRUCTURE DETAILS A
 THOMPSON BERRILL LANDSCAPE DESIGN P/L PO BOX 665 MANLY NSW 2095 T: 02 9977 6444 E: info@tbltd.com.au	

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SCALE	AS SHOWN
DATE	JUNE 2020
DESIGN	GB
DRAWN	YL/SC/EK
CHECKED	GB
DATUM	AHD
PLAN No.	IPIE-DD-12B

GENERAL NOTES

1.1 Setting Out of the Works

The Contractor shall be responsible for accurately setting out the work in accordance with the drawings and survey information supplied. All set out of the works shall be undertaken by a certified and qualified surveyor.

Set out of all contract works requires inspection and on site amendments to set out as instructed by the Superintendent or their representative. Following on site approval being gained, the contractor must seek and gain written approval from the Superintendent to proceed with construction of the inspected area(s) or sections of works.

It is the Contractors responsibility to check and prove all design drawings and levels on site to ensure no discrepancies are found, prior to commencement of construction of works, and does not in any way limit the Contractors responsibility to complete the works in accordance with the intent of the design. Should the Contractor discover any major error or discrepancy in the lines on the plan or the site, they shall immediately notify the Superintendent and await advisement before proceeding with the affected works.

All materials and workmanship to be in accordance with the relevant current Australian Standards Codes and the Building Code of Australia.

1.2 Structural Steel

All mild steel to be Hot Dip Galvanised.

1.3 Shop Drawings

The contractor shall provide workshop drawings and any other documents required prior to commencing fabrication for Superintendent approval.

1.4 Inspections

All prefabricated elements to be fully assembled and inspected off-site at factory for approval prior to transportation to site.

Following on-site installation, all elements to be inspected and any work found not to be in accordance with the Specification shall be rectified by the Contractor at no cost to the Principal.

1.5 Practical Completion

The Contractor shall give at least five working days notice to the Superintendent that the works have been completed, and that the area is ready for Practical Completion inspection. The area will be inspected and any work found not to be in accordance with the Specification shall be rectified by the Contractor at no cost to the Principal.

When the Superintendent is satisfied that the works has been carried out in accordance with the Specification, the Superintendent will notify the Contractor in writing when Practical Completion has been achieved for, whereupon the 104 week Defects Liability Period shall commence.

Major Hold Points / Site Inspections will be required at regular intervals to confirm completion of works. The Contractor and Superintendent will attend these inspections with representatives from Northern Beaches Council as required.

Additional random site inspections will be completed by the Superintendent and Contractor through the 104 week Defects Liability Period as required. These meetings will confirm the defects liability requirements to be completed by the Contractor for the month following the meeting in accordance with the Specification.

1.6 24 Months Defects Liability

Defects Liability Period for all constructed works is 104 weeks, following Practical Completion. During the Defects Liability Period, the Contractor shall ensure that all structural and hard landscape works are maintained including tightening of all bolts and fixings, etc.

All defects liability works required will be directed or approved of by the Superintendent in writing prior to completion. The Contractor must obtain the Superintendent's approval in writing for any variations to the defects liability work that is to be paid for by the Principal, before it is carried out.

Approximately two weeks prior to the expiry of the Defects Liability Period, the Superintendent shall arrange with the Contractor an inspection of the site with Council, and any work found not to be in accordance with the Specification and which in the opinion of the Superintendent is within the control of the Contractor, shall be rectified by the Contractor at no cost to the Principal.

STRUCTURAL STEELWORK NOTES

S1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

S2 STEEL QUALITY
ALL STEEL WORK SHALL BE GRADE 250 UNLESS NOTED.
ROLLED SECTIONS (UB, UC, PFC, EA etc) SHALL BE GRADE BHP-300PLUS.
RECTANGULAR HOLLOW SECTIONS SHALL BE GRADE 350 UNLESS NOTED.
COLD FORMED PURLIN AND GIRT SECTIONS SHALL BE IN ACCORDANCE WITH AS1397 AND AS1538, AND BE EQUIVALENT TO BHP GALVASPAN, COATING CLASS 2350.

S3 WELDING
ALL WELDING SHALL BE IN ACCORDANCE WITH AS 1554.
UNLESS NOTED ALL CONNECTIONS BETWEEN MEMBERS SHALL BE 6 mm CONTINUOUS FILLET WELD TYPE G.P.
BUTT WELDS SHALL BE COMPLETE PENETRATION TYPE SP.
WELDING SYMBOLS ON DRAWINGS ARE IN ACCORDANCE WITH AS 1101 PART 3.

S4 BOLTING
BOLTS SHALL BE M20 4.6/S UNLESS NOTED.
MEMBERS SHALL BE CONNECTED WITH 2 BOLTS UNLESS NOTED.
BOLTING PROCEDURES SHALL BE AS FOLLOWS:

BOLTING PROCEDURE	BOLT NAME	AUSTRALIAN STANDARD	INSTALLATION AS 4300
4.6/S	COMMERCIAL	AS 1111	SNUG TIGHTENED
8.8/S	HIGH STRENGTH	AS 1252	SNUG TIGHTENED
8.8/TF	HIGH STRENGTH	AS 1252	TENSIONED FRICTION
8.8/TB	HIGH STRENGTH	AS 1252	TENSIONED BEARING

APPROVED LOAD-INDICATING WASHERS SHALL BE USED UNDER THE BOLT HEAD OF 8.8/TF AND 8.8/TB JOINTS.

S5 PLATES
ALL PLATES SHALL BE 10 mm THICK UNLESS NOTED.

CONCRETE NOTES

C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

C2 CONCRETE QUALITY – AS NOTED BELOW.
PROJECT ASSESSMENT OF STRENGTH GRADE SHALL BE USED.

CONCRETE QUALITY				
ELEMENT	Strength Grade	Slump mm	Max. Agg. mm	Cement Type
Footings piers	N25	80	20	GP
Slabs	N40	80	20	GP

C3 CLEAR COVER OF REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS. REINFORCEMENT SHALL BE RIGIDLY SUPPORTED TO MAINTAIN SPECIFIED COVER DURING CONSTRUCTION.

C4 SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISH.

C5 CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE SUPERINTENDENT.

C6 CONDUITS, PIPES ETC., SHALL ONLY BE LOCATED IN THE MIDDLE ONE THIRD OF SLAB DEPTH. (UNLESS NOTED OTHERWISE.)

C7 REINFORCEMENT SYMBOLS:
R – GRADE 250 PLAIN BAR IN ACCORDANCE WITH AS 1302
N – GRADE 500 DEFORMED BAR DUCTILITY CLASS N (DS00N) IN ACCORDANCE WITH AS/NZS 4671 WITH A CARBON EQUIVALENT (CE) LIMIT OF 0.39 MAX.
SL – GRADE 500 SQUARE WELDED FABRIC, DEFORMED BARS DUCTILITY CLASS L (DS00L) IN ACCORDANCE WITH AS/NZS 4671.
RL – GRADE 500 RECTANGULAR WELDED FABRIC, DEFORMED BARS DUCTILITY CLASS L (DS00L) IN ACCORDANCE WITH AS/NZS 4671.

C8 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY; IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.

C9 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN. OBTAIN APPROVAL FROM THE SUPERINTENDENT FOR ANY OTHER SPLICES.

C10 WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS.

C11 FABRIC SHALL BE LAPPED 400 mm.
WITH 3 WRAPS OF TIE WIRE.

C12 CURE CONCRETE IN ACCORDANCE WITH AS 3600. METHOD OF CURING SHALL BE SUBMITTED TO THE SUPERINTENDENT FOR APPROVAL.

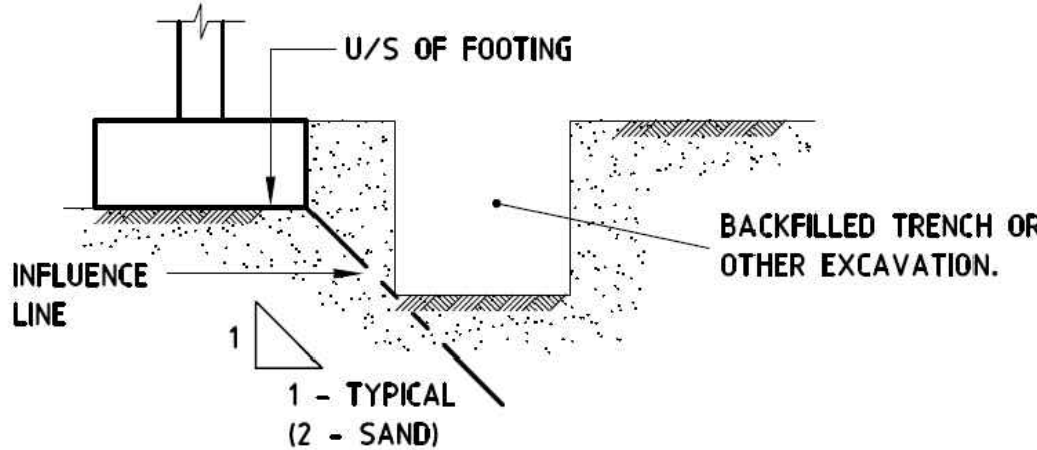
FOUNDATION NOTES

F1 UNLESS NOTED FOOTINGS SHALL BEAR UPON UNDISTURBED NATURAL GROUND WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100 KPA.

F2 FOUNDATION MATERIAL SHALL BE INSPECTED AND APPROVED BY A GEOTECHNICAL ENGINEER FOR THE NOMINATED ALLOWABLE BEARING CAPACITY PRIOR TO COMMENCING FOOTING CONSTRUCTION.

F3 FOOTINGS SHALL BE LOCATED CENTRAL UNDER WALLS AND COLUMNS UNLESS NOTED OTHERWISE.

F4 UNLESS OTHERWISE APPROVED, EXCAVATIONS NEAR NEW OR EXISTING FOOTINGS SHALL NOT BE WITHIN THE FOOTING INFLUENCE LINE.





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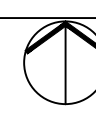
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PROJECT TITLE
Ivanhoe Park Interpretation Entry DD

CLIENT


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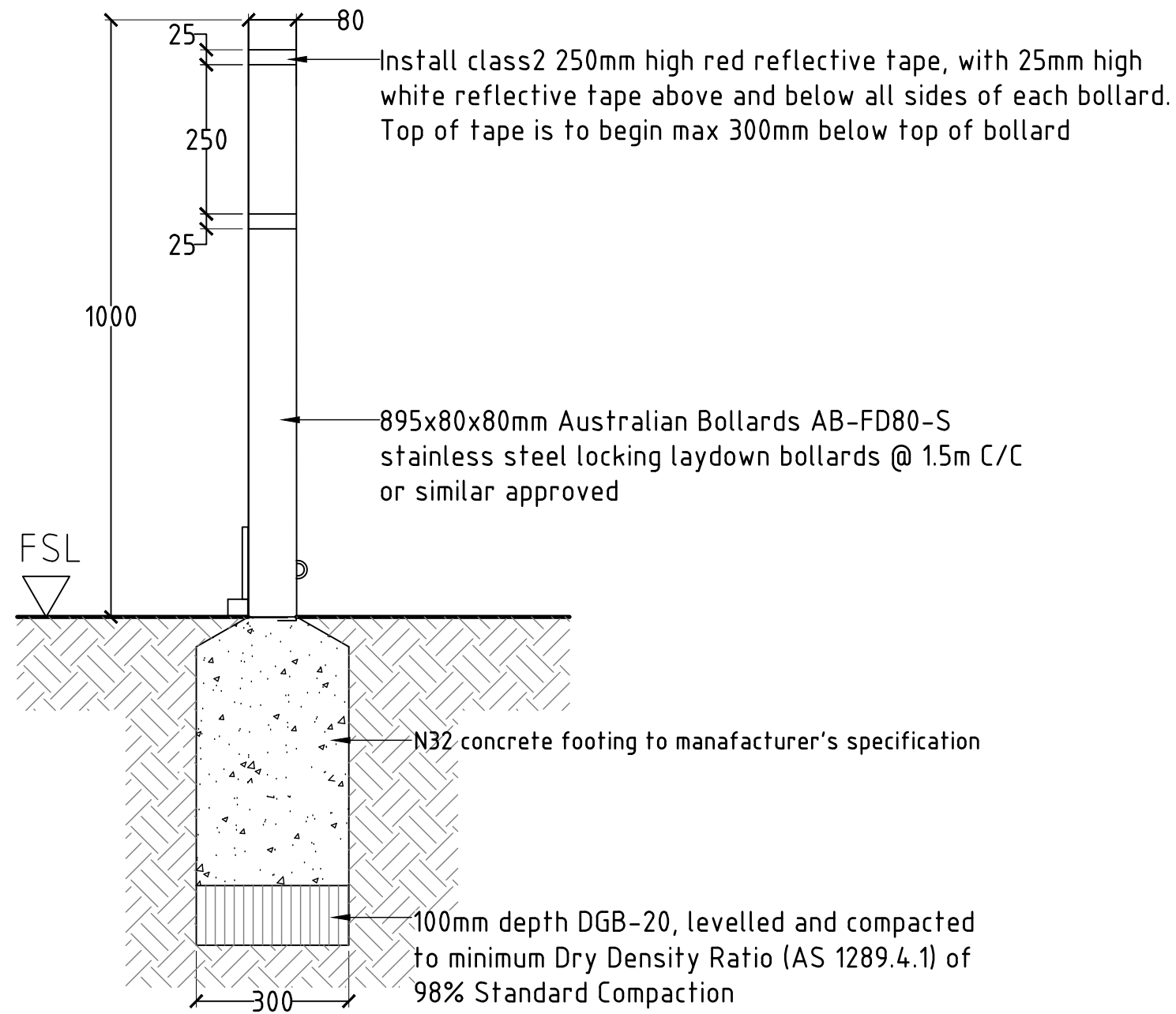
DRAWING NAME
CORTEN INTERNAL
STRUCTURE
SPECIFIED NOTES



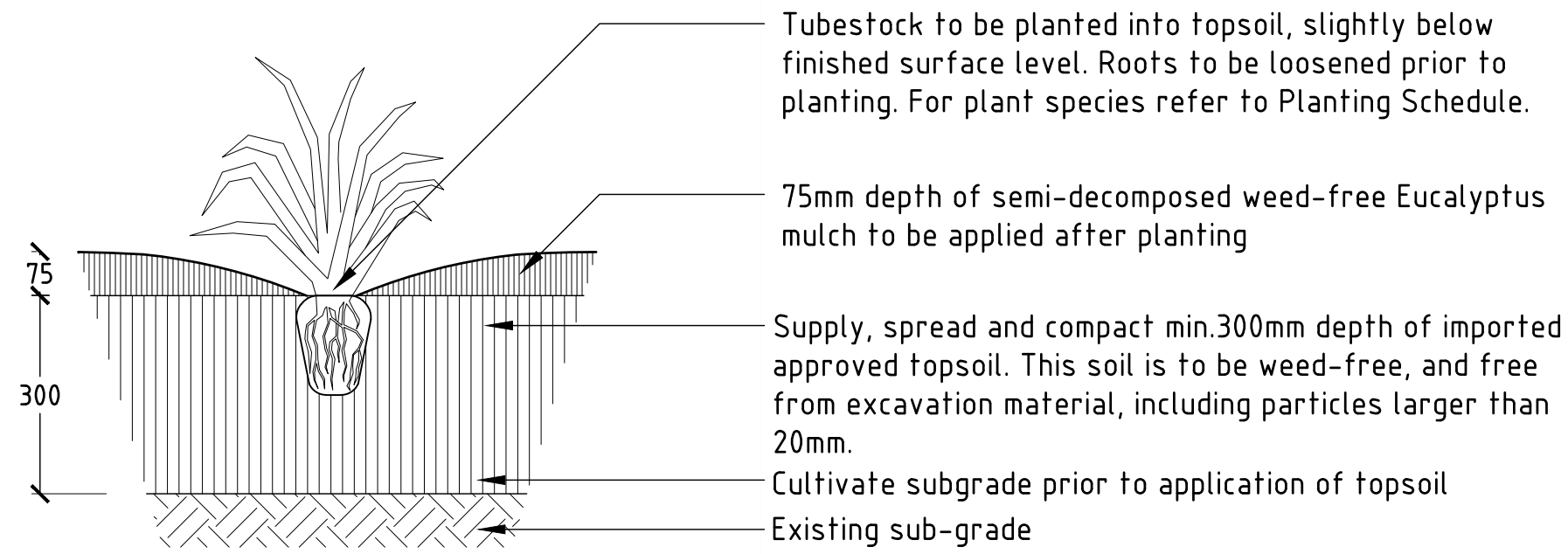


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PLAN No.	IPiE-DD-12D



1 TYPICAL REMOVABLE STAINLESS STEEL BOLLARD DETAIL
SCALE 1:20@A3



2 TYPICAL TUBESTOCK PLANTING DETAIL
SCALE 1:20 @ A3

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CLIENT 	DRAWING NAME TYPICAL DETAILS
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