

NEPEAN BUSINESS PARK PENRITH

DEVELOPMENT APPLICATION

DRAWING SCHEDULE

DRAWING NUMBER	DESCRIPTION
200044-09-DA-C01.01	COVER SHEET AND DRAWING SCHEDULE
200044-09-DA-C01.21	GENERAL NOTES AND LEGENDS SHEET 1
200044-09-DA-C01.22	GENERAL NOTES AND LEGENDS SHEET 2
200044-09-DA-C01.31	STAGING PLAN
200044-09-DA-C01.41	GENERAL ARRANGEMENT PLAN
200044-09-DA-C01.81	SUBDIVISION PLAN
200044-09-DA-C01.91	COMMUNITY TITLE SUBDIVISION PLAN
200044-09-DA-C03.01	EROSION AND SEDIMENTATION CONTROL PLAN
200044-09-DA-C03.21	EROSION AND SEDIMENTATION CONTROL DETAILS
200044-09-DA-C04.01	BULK EARTHWORKS CUT AND FILL PLAN
200044-09-DA-C04.21	BULK EARTHWORKS CUT AND FILL SECTIONS
200044-09-DA-C05.01	SITEWORKS AND STORMWATER MANAGEMENT PLAN SHEET 1
200044-09-DA-C05.02	SITEWORKS AND STORMWATER MANAGEMENT PLAN SHEET 2
200044-09-DA-C05.03	SITEWORKS AND STORMWATER MANAGEMENT PLAN SHEET 3
200044-09-DA-C05.04	SITEWORKS AND STORMWATER MANAGEMENT PLAN SHEET 4
200044-09-DA-C07.01	ROAD LONGITUDINAL SECTIONS
200044-09-DA-C11.01	PAVEMENT, SIGNAGE AND LINEMARKING PLAN
200044-09-DA-C13.01	STORMWATER LONGSECTIONS SHEET 1
200044-09-DA-C13.02	STORMWATER LONGSECTIONS SHEET 2
200044-09-DA-C14.01	SITEWORK DETAILS
200044-09-DA-C14.11	COUNCIL DETAILS SHEET 1
200044-09-DA-C14.12	COUNCIL DETAILS SHEET 2
200044-09-DA-C14.13	COUNCIL DETAILS SHEET 3
200044-09-DA-C14.14	COUNCIL DETAILS SHEET 4
200044-09-DA-C18.01	STORMWATER DETAILS SHEET 1
200044-09-DA-C18.02	STORMWATER DETAILS SHEET 2
200044-09-DA-C22.01	CATCHMENT PLAN
200044-09-DA-C25.01	TURNING PATH PLAN

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

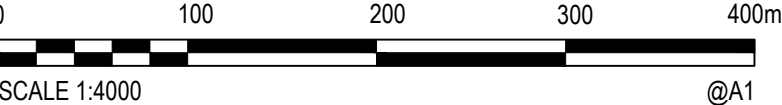
Client



NEPEAN
BUSINESS
PARK



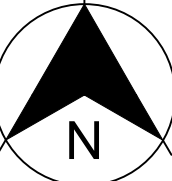
Scale



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SCALE 1:4000 @A1

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Scale
1:4000

First Issue Date
04/12/2024

Size
A1

Datum
AHD

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number
200044-09-DA-C01.01

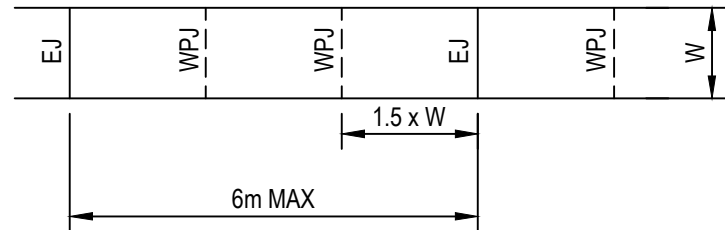
Revision
3

1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS, SPECIFICATIONS AND AUSTRALIAN STANDARDS. CONFLICTS SHALL BE REFERRED TO THE SUPERINTENDENT FOR DIRECTION.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO THE DESIGN ENGINEER.
3. THE CONTRACTOR IS TO DESIGN, OBTAIN APPROVALS AND CARRY OUT REQUIRED TEMPORARY TRAFFIC CONTROL PROCEDURES DURING CONSTRUCTION IN ACCORDANCE WITH RMS AND LOCAL AUTHORITY REGULATIONS AND REQUIREMENTS.
4. THE CONTRACTOR IS TO OBTAIN ALL AUTHORITY APPROVALS AS REQUIRED.
5. RESTORE ALL PAVED, COVERED, GRASSED AND LANDSCAPED AREAS TO THEIR ORIGINAL CONDITION ON COMPLETION OF WORKS.
6. ON COMPLETION OF ANY TRENCHING WORKS, ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL, GRASSED AREAS AND ROAD PAVEMENTS.
7. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
8. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO LODGMENT OF TENDER AND ON SITE 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 APPROVED.
9. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS AND SPECIFICATIONS, AND ANY OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED RELATING TO DEVELOPMENT OF THE SUBJECT SITE.
10. 14. THESE PLANS SHALL BE READ IN CONJUNCTION WITH ALL APPROVED DRAWINGS AND SPECIFICATIONS PREPARED BY OTHER PROJECT CONSULTANTS.
11. 10. DO NOT OBTAIN DIMENSIONS BY SCALING THE DRAWINGS. ALL DIMENSIONS ARE IN MILLIMETRES (mm) AND ALL LEVELS ARE IN METERS (m). UNO. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
12. 11. IN CASE OF DOUBT OR DISCREPANCY REFER TO THE DESIGN ENGINEER AND SUPERINTENDENT FOR CLARIFICATION OR CONFIRMATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. OTHERWISE THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REMEDIATION WORKS.
13. 12. WHERE NEW WORKS ABOUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
14. THE CONTRACTOR SHALL COMPLY WITH ALL STATUTORY AND INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.
15. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO ALL BUILDINGS ADJACENT THE WORKS IS NOT DISRUPTED.
16. WHERE NECESSARY THE CONTRACTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.
17. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.
18. ALL VARIATIONS TO SPECIFIED PRODUCTS OR DESIGNS SHALL BE REFERRED TO THE DESIGN ENGINEER IN WRITING FOR APPROVAL.
19. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
 - A. PROTECTING THEM WITH BARRIER FENCING OR SIMILAR
 - B. MATERIALS INSTALLED OUTSIDE THE DRIP LINE
 - C. ENSURING THAT NOTHING IS NAILED TO THEM
 - D. PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS:
 - C.a. ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICHEVER IS THE GREATER
 - C.b. A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
 - C.c. CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.
20. EPA AND COUNCIL REQUIREMENTS MUST BE ADHERED TO REGARDING THE LEVEL OF NOISE AND WORKING HOURS, TO ENSURE THAT RESIDENTS AND OTHER APPLICABLE NEIGHBOURS TO THE SITE ARE NOT DISTURBED UNREASONABLY. THE GENERATION OF NOISE MUST BE MINIMISED.

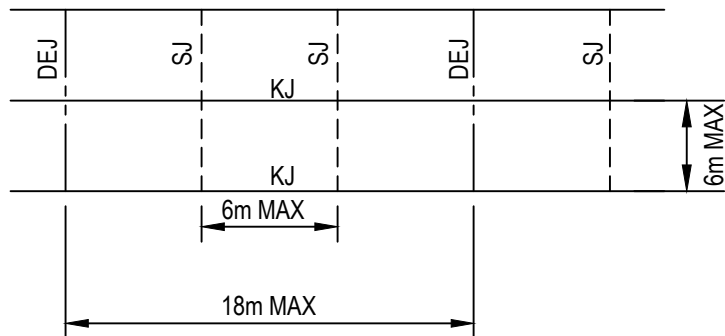
1. ALL PAVEMENT MATERIALS SHALL COMPLY WITH CURRENT RTA SPECIFICATIONS. PROVIDE MECHANICAL ANALYSIS FOR EACH BATCH OF PAVEMENT MATERIAL TO ENSURE CONFORMITY.
2. COMPACTION STANDARDS:
 - A) BASE: 98% MODIFIED MAXIMUM DRY DENSITY
 - B) SUBBASE: 95% MODIFIED MAXIMUM DRY DENSITY
3. THE CONTRACTOR SHALL CONFIRM THE DESIGN CBR WITH A MINIMUM OF 3 TESTS TAKEN AT SUBGRADE LEVEL. WHERE DISCREPANCY IS FOUND, CONTACT THE DESIGNING ENGINEER.
4. ALLOW FOR COMPACTION TESTING BY NATA REGISTERED LABORATORY FOR: BASE LAYER, SUBBASE LAYER, SUBGRADE IN ACCORDANCE WITH THE LATEST VERSION OF A53798 FOR PAVEMENTS. ALLOW FOR AT LEAST TWO SUCCESSFUL COMPACTION TESTS IN EACH LAYER.
5. MATCH NEW PAVEMENT LAYERS NEATLY AND FLUSH WITH EXISTING WHERE REQUIRED.
6. KEY NEW BASE AND SUBBASE LAYERS INTO EXISTING WITH 150mm WIDE STEPS. ASPHALTIC CONCRETE WAERING COURSE IS TO EXTEND 150mm (MIN) PAST BASECOURSE INTERFACE.
7. TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MIN 50mm IN BITUMINOUS PAVING.
8. ALL ASPHALTIC CONCRETE (AC) WORK TO BE PREPARED AND CARRIED OUT IN ACCORDANCE WITH GOOD ASPHALTIC PAVING PRACTICE AS DESCRIBED IN AS2734-1994 'ASPHALT (HOT-MIXED) PAVING - GUIDE TO GOOD PRACTICE' AND CURRENT RIMS SPECIFICATIONS (R116).
9. WHERE NOMINATED, THE CONTRACTOR SHALL ALLOW FOR ALL COMPONENTS OF PROPRIETARY JOINTING SYSTEMS INCLUDING FIXING, TEMPLATES & PEGGING TO ENSURE THAT ALL DOWEL BARS REMAIN IN THE CORRECT ALIGNMENT AND POSITION.
10. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S. FORM 3051, COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ OF BASECOURSE MATERIAL PLACED.
11. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S. FORM 3051, AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ OF SUB-BASE COURSE MATERIAL PLACED.
12. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH R.M.S. FORM 3051 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF THE DESIGN ENGINEER.
13. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.

PEDESTRIAN PAVEMENTS

1. ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINED AS FOLLOWS U.N.O ON THE DESIGN DRAWINGS.
2. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES.
3. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF 1.5 x WIDTH OF THE PAVEMENT.
4. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS.
5. TYPICAL PEDESTRIAN PAVEMENT JOINT DETAIL.



6. ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS U.N.O ON THE DESIGN DRAWINGS.
7. TIED KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED LONGITUDINALLY AT A MAX OF 6.0m CENTRES
8. SAWN JOINTS SHOULD GENERALLY BE LOCATED Laterally AT A MAX OF 6.0m CENTRES WITH DOWELED EXPANSION JOINTS AT MAX 30.0m CENTRES
9. TYPICAL VEHICULAR PAVEMENT JOINT DETAIL.



10. PROVIDE 10mm EXPANSION FOAM BETWEEN NEW CONCRETE WORKS AND EXISTING STRUCTURES.
11. LOCAL AUTHORITY REQUIREMENTS SHALL TAKE PRECEDENCE WITHIN THE PUBLIC ROAD RESERVE.
12. DOWELS TO BE PLACED ON PROPRIETARY CRADLES TO ENSURE CORRECT SPACING AND ALIGNMENT.

2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH
REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.

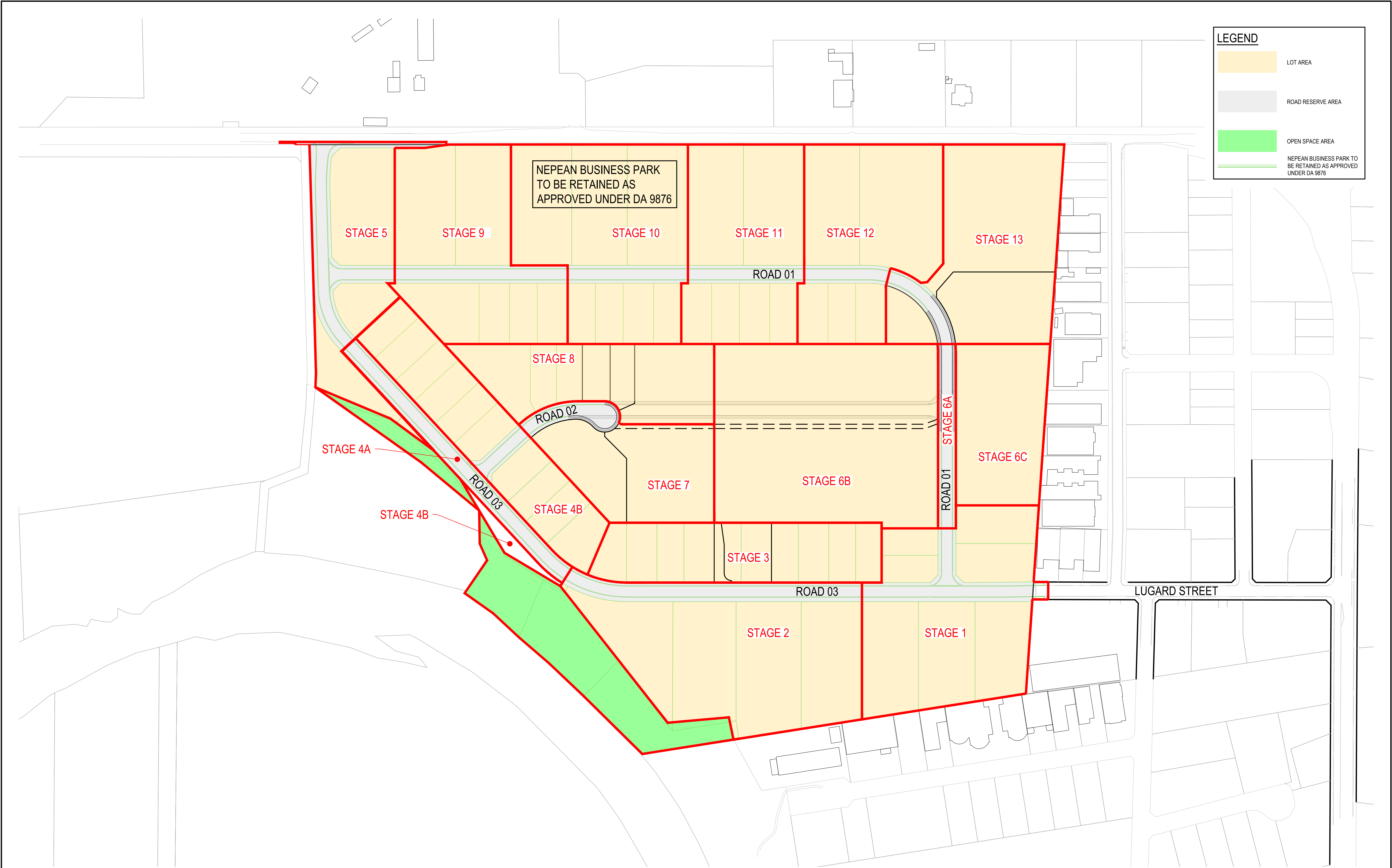


Scale

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Project NEPEAN BUSINESS PARK PENRITH	Scale	<div>FOR APPROVAL</div> <div>NOT TO BE USED FOR CONSTRUCTION</div>	
	First Issue Date 04/12/2024		
Title GENERAL NOTES AND LEGENDS SHEET 2	Size A1	Project Number/Drawing Number 200044-09-DA-C01.22	Revision 2
	Datum AHD		




REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
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Client



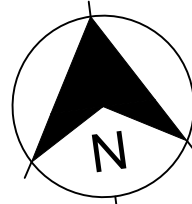
NEPEAN
BUSINESS
PARK

Scale



0 50 100 150 200m
SCALE 1:2000 @A1

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Project
NEPEAN BUSINESS PARK
PENRITH

Title
STAGING PLAN

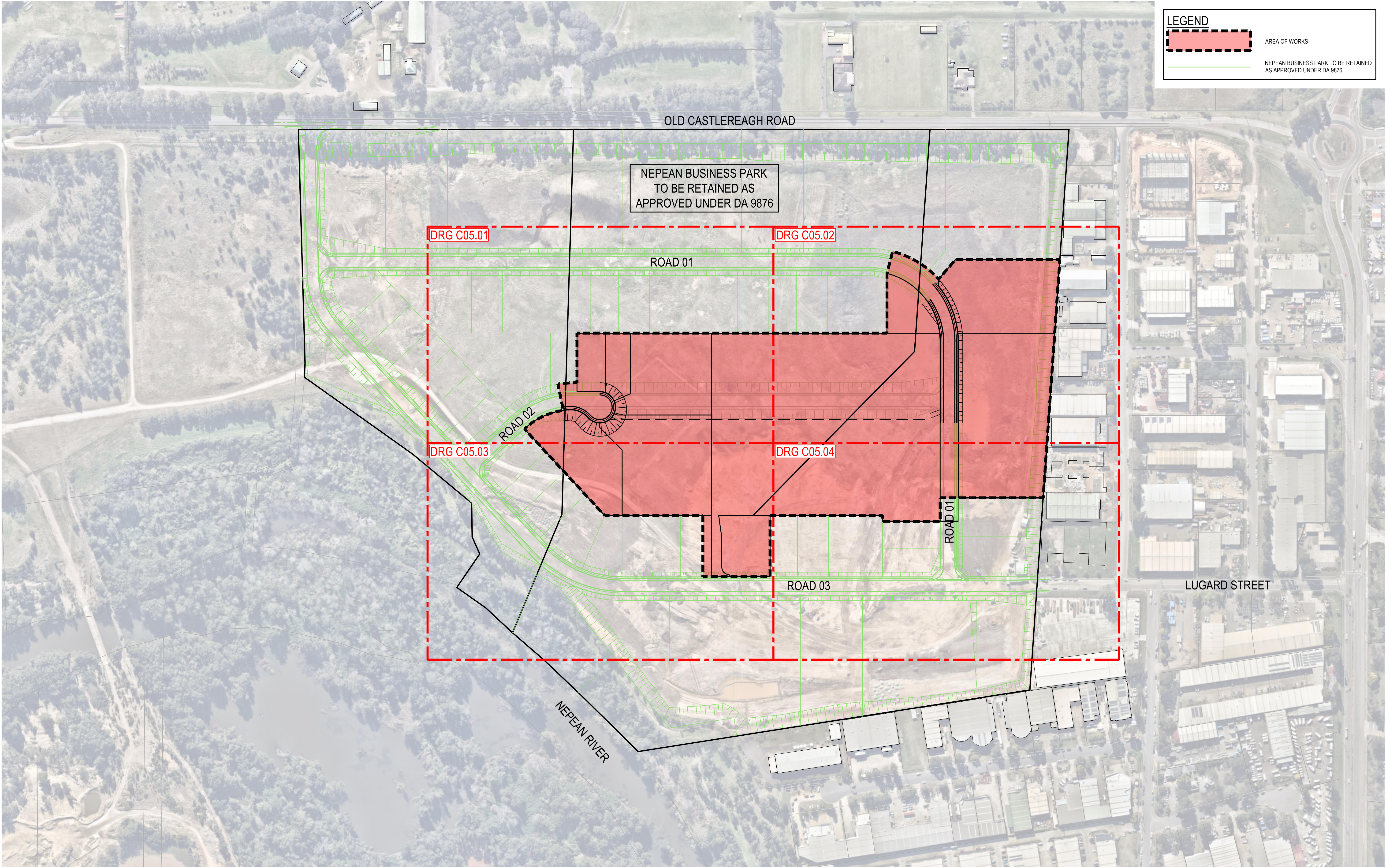
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First Issue Date
04/12/2024

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Size
A1
Datum
AHD

Project Number/Drawing Number
200044-09-DA-C01.31

Revision
3



LEGEND

AREA OF WORKS

NEPEAN BUSINESS PARK TO BE RETAINED AS APPROVED UNDER DA 9876

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL	MKH	
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL	MKH	
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL	MKH	

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NEPEAN BUSINESS PARK

Scale

050100150200m

SCALE 1:2000

@A1

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Project

NEPEAN BUSINESS PARK
PENRITH

Title

GENERAL ARRANGEMENT PLAN

Scale

1:2000

First Issue Date

04/12/2024

Size

A1

Datum

AHD

Status

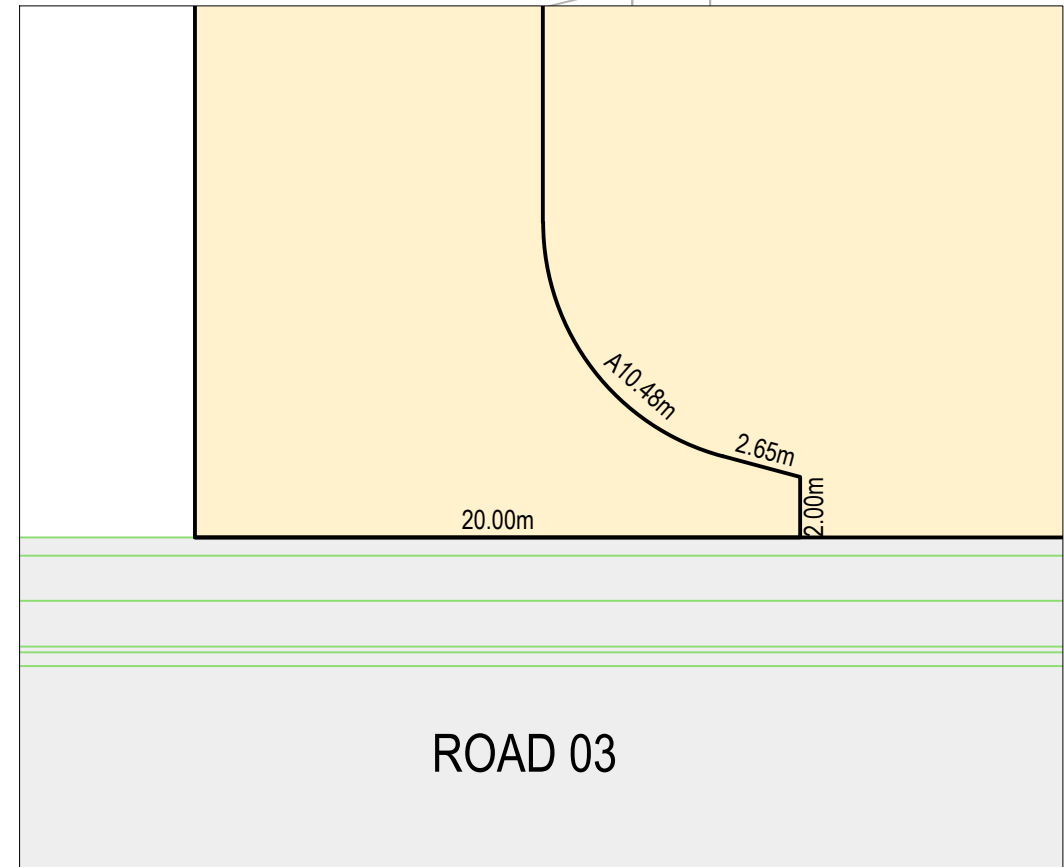
FOR APPROVAL
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Project Number/Drawing Number

200044-09-DA-C01.41

Revision

3



INSET A
SCALE 1:250

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
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Client



NEPEAN
BUSINESS
PARK

Scale

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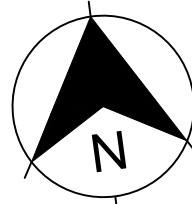
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Project
NEPEAN BUSINESS PARK
PENRITH

Title
SUBDIVISION PLAN

Scale AS SHOWN First Issue Date 04/12/2024	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Size A1 Datum AHD	Project Number/Drawing Number 200044-09-DA-C01.81
	Revision 3



LEGEND

COMMUNITY TITLE EXTENT

EP - EMPLOYMENT ZONING

ROADS (PRIVATE)

NEPEAN BUSINESS PARK TO BE RETAINED
AS APPROVED UNDER DA 9876

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3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
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NEPEAN
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Scale

050100150200m

SCALE 1:2000

@A1

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Project
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Title
COMMUNITY TITLE SUBDIVISION PLAN

Scale
1:2000
First Issue Date
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A1
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Project Number/Drawing Number
200044-09-DA-C01.91

Revision
3

NEPEAN BUSINESS PARK TO
BE RETAINED AS APPROVED
UNDER DA 9876

LEGEND

SEDIMENT FENCE (SD 6-8)

SEDIMENT TRAP FOR KERB INLET
(ON GRADE - SANDBAG)

SEDIMENT TRAP FOR KERB INLET
(AT LOW POINT - SANDBAG)

GEOTEXTILE INLET FILTER (SD 6-12)

ROAD 01

ROAD 02

ROAD 01

ROAD 03

LUGARD STREET

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
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1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client

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Scale

020406080100m

SCALE 1:1000 @A1

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Project
NEPEAN BUSINESS PARK
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Title
EROSION AND SEDIMENTATION CONTROL PLAN

Scale
1:1000

First Issue Date
04/12/2024

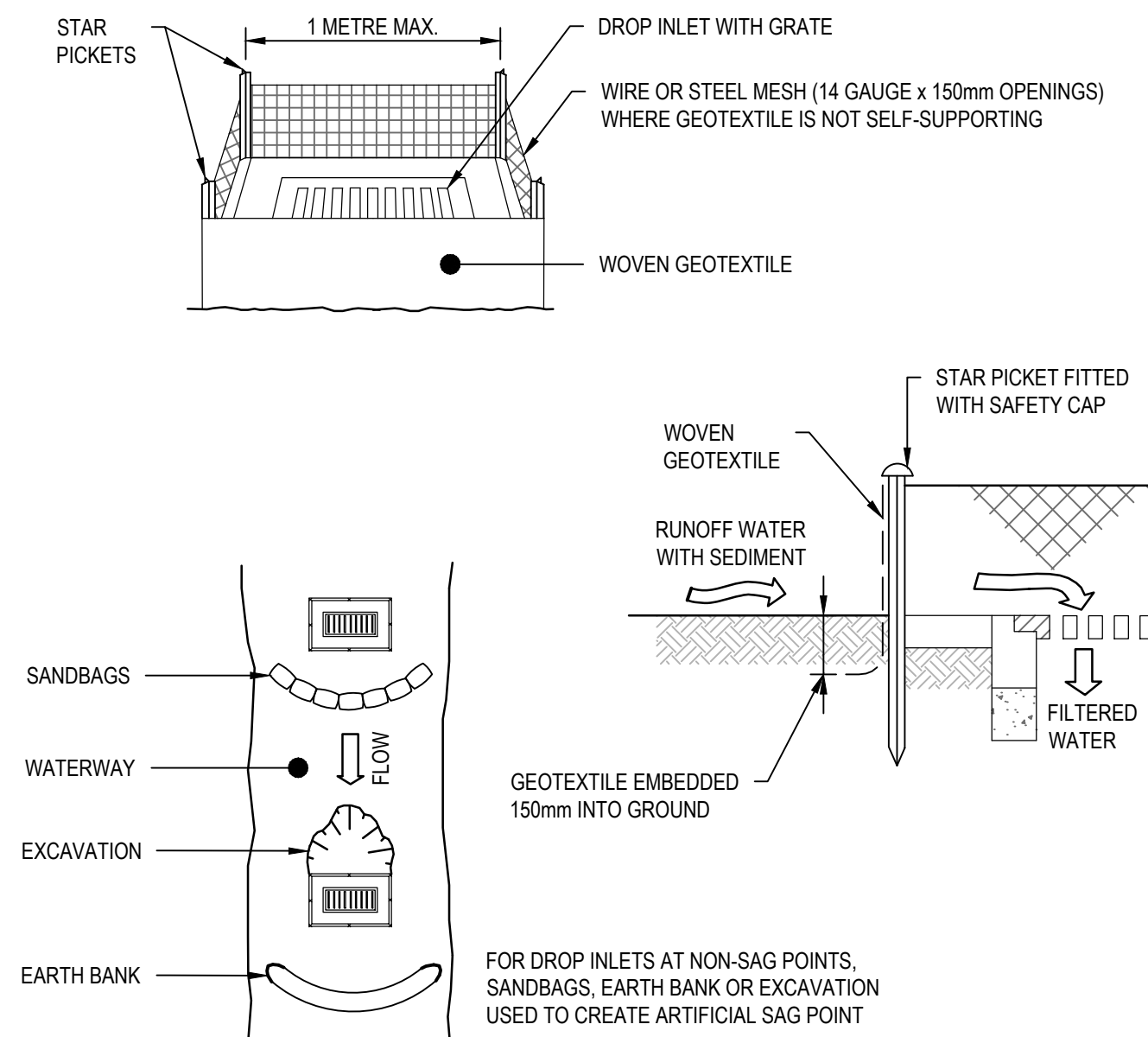
Size
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200044-09-DA-C03.01

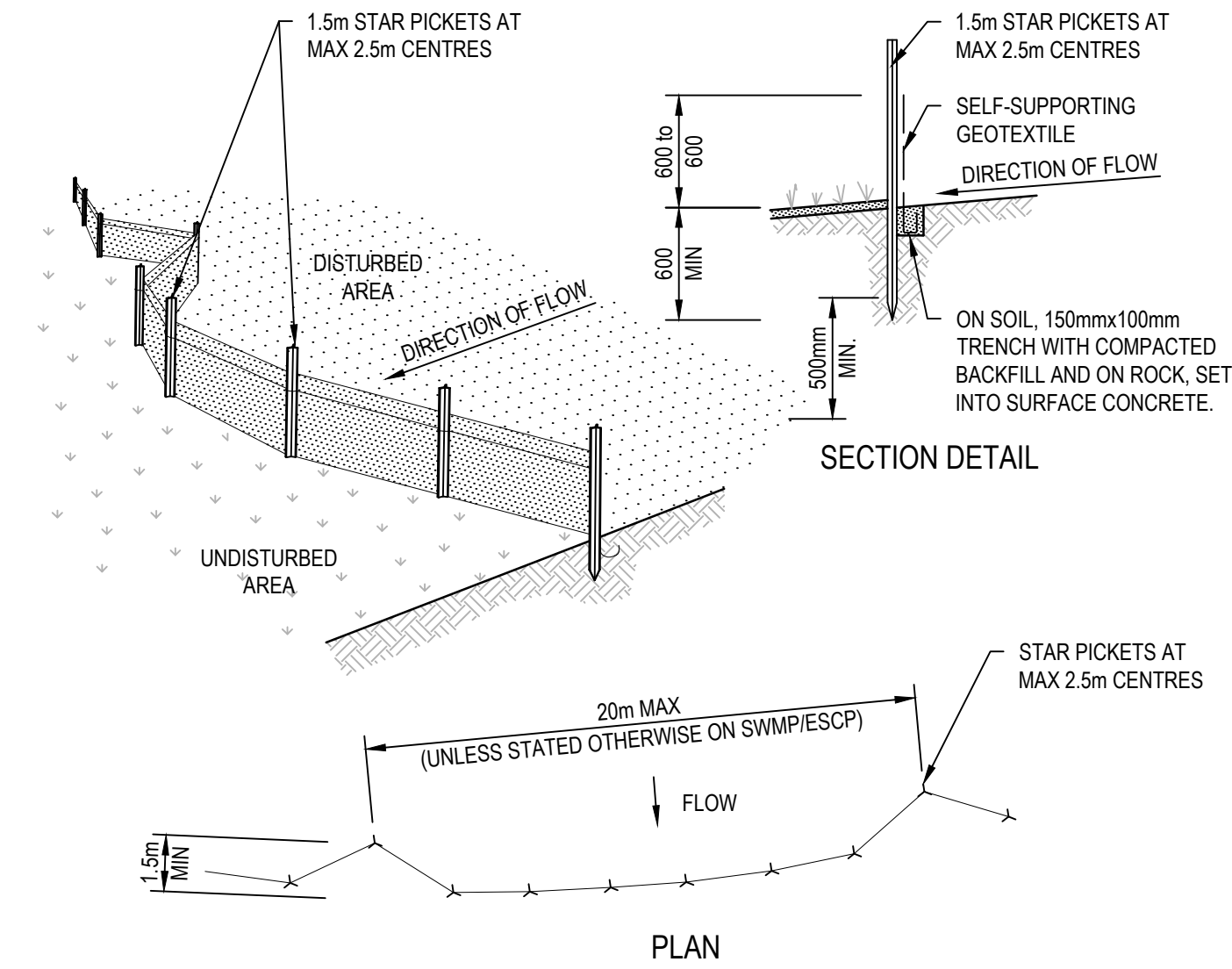
Revision
3



CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

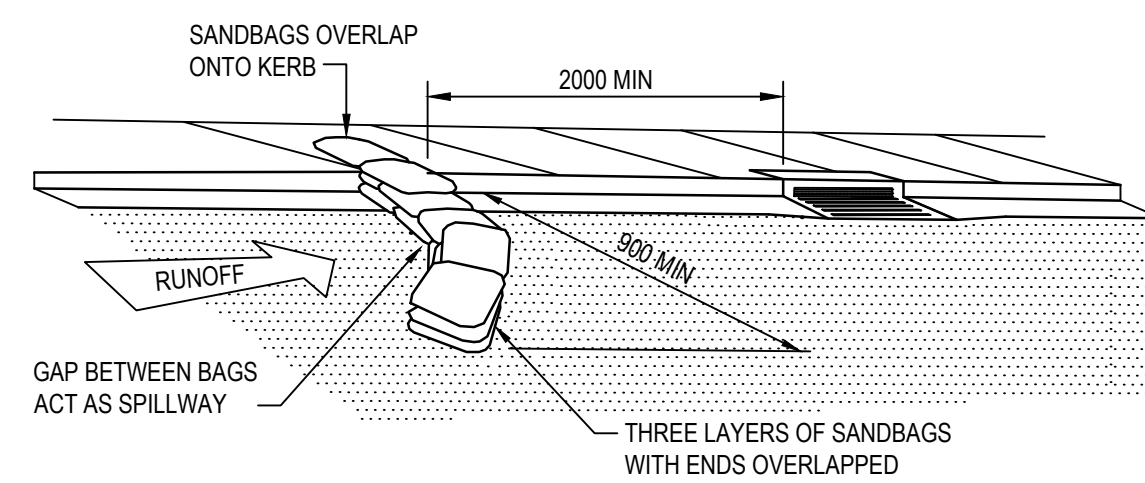
GEOTEXTILE INLET FILTER (SD 6-12)



CONSTRUCTION NOTES

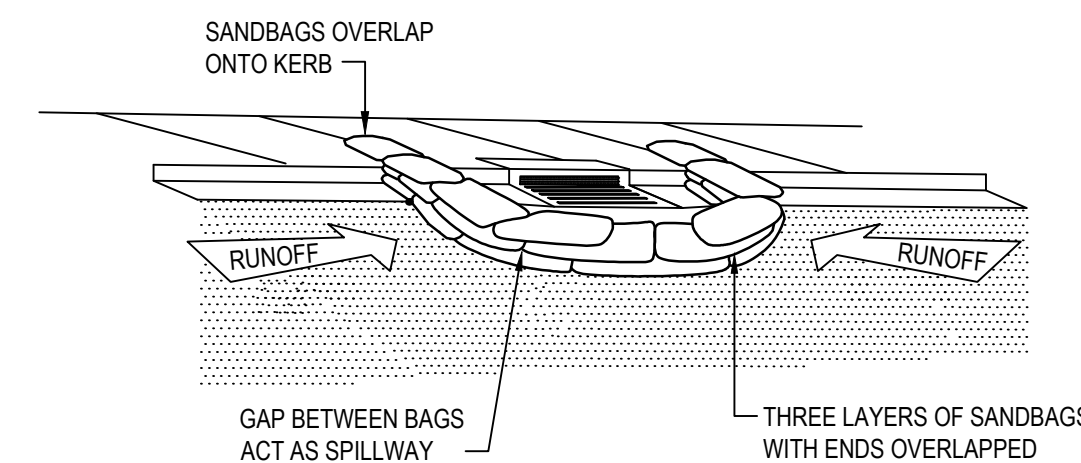
1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND 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 OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. 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.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE (SD 6-8)



SEDIMENT TRAP FOR KERB INLET (ON GRADE - SANDBAG)

NOT TO SCALE



SEDIMENT TRAP FOR KERB INLET (AT LOW POINT - SANDBAG)

NOT TO SCALE

NOTE

REFER TO APPROVED DA 9876 FOR OVERALL SEDIMENT CONTROL AND SEDIMENT BASINS DETAILS.

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Project
NEPEAN BUSINESS PARK
PENRITH

Title
EROSION AND SEDIMENTATION CONTROL DETAILS

Scale
Date
04/12/2024

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A1

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NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number
200044-09-DA-C03.21

Revision
2



REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client

NEPEAN BUSINESS PARK

Scale

SCALE 1:2000 @A1

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Project
NEPEAN BUSINESS PARK
PENRITH

Title
BULK EARTHWORKS CUT AND FILL PLAN

Scale
1:2000
First Issue Date
04/12/2024

Size
A1
Datum
AHD

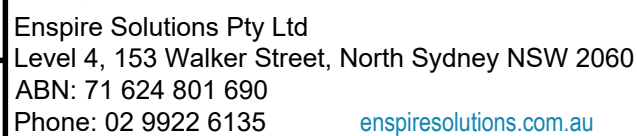
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number
200044-09-DA-C04.01

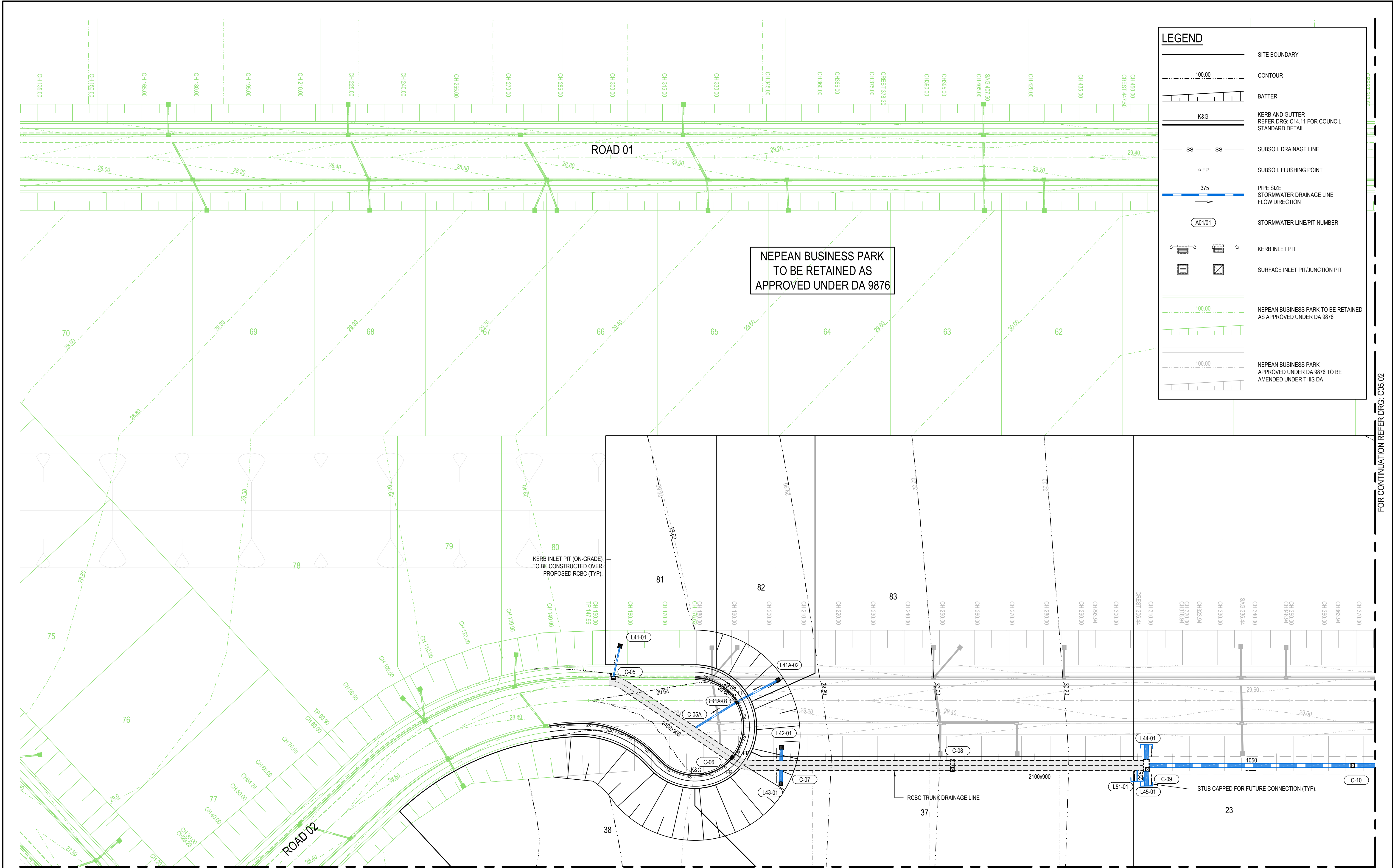
Revision
3



NEPEAN
BUSINESS
PARK



CAD File: P:\200044 NepeanBusinessPark\ID-Civil\09-S4.55 DA Update\Drawings\6-DACC\200044-09-DA-C04.21 BULK EARTHWORKS CUT AND FILL SECTIONS.dwg



LEGEND

SITE BOUNDARY

CONTOUR

BATTER

K&G

SS

FP

375

STORMWATER DRAINAGE LINE
FLOW DIRECTION

A01/01

KERB INLET PIT

SURFACE INLET PIT/JUNCTION PIT

NEPEAN BUSINESS PARK TO BE RETAINED
AS APPROVED UNDER DA 9876

NEPEAN BUSINESS PARK
APPROVED UNDER DA 9876 TO BE
AMENDED UNDER THIS DA

FOR CONTINUATION REFER DRG: C05.02

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client

**NEPEAN
BUSINESS
PARK**

Scale

SCALE 1:500

@A1

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Project
NEPEAN BUSINESS PARK
PENRITH

Title
SITEWORKS AND STORMWATER MANAGEMENT PLAN
SHEET 1

Scale
1:500

First Issue Date
04/12/2024

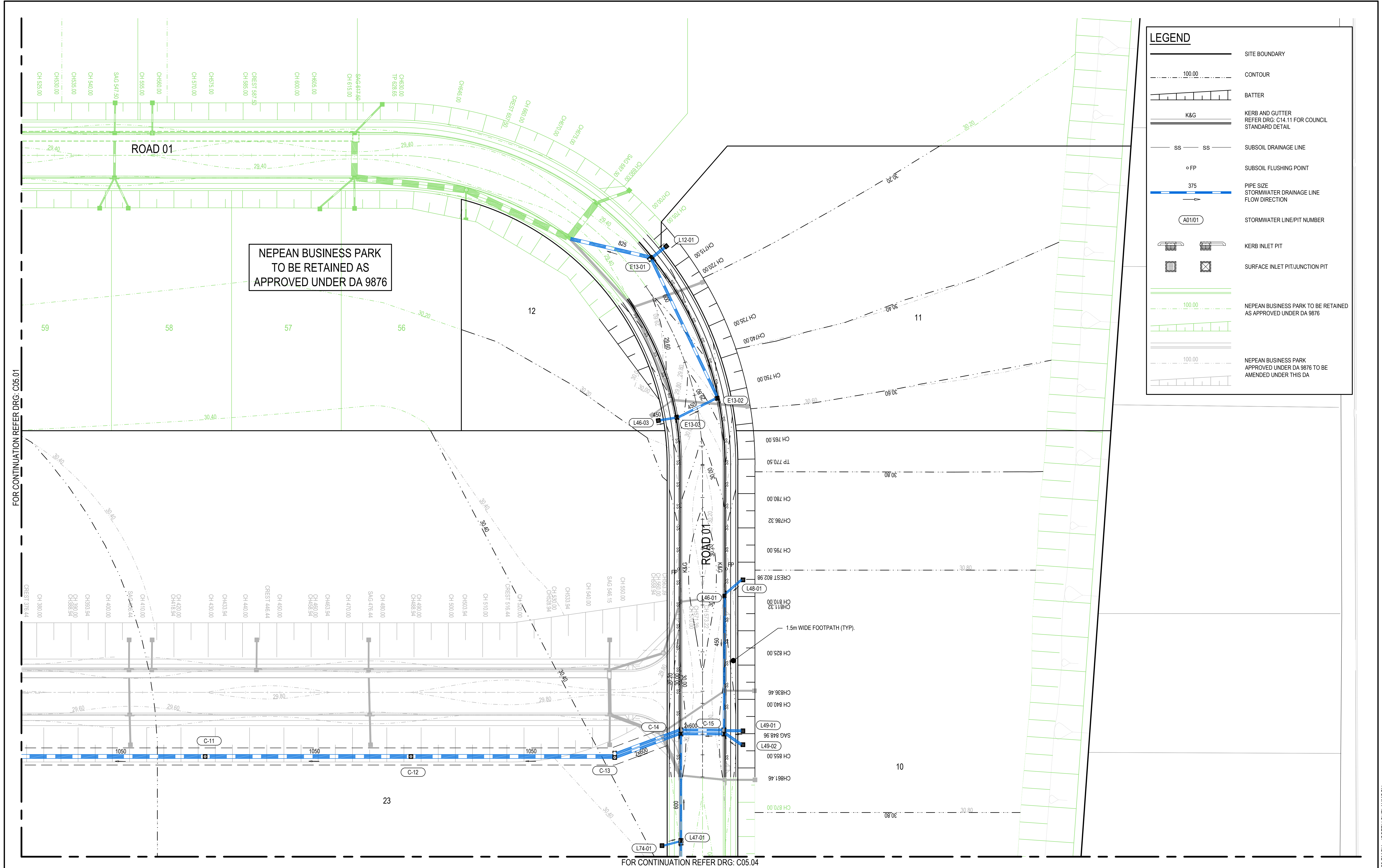
Size
A1

Datum
AHD

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number
200044-09-DA-C05.01

Revision
3



LEGEND

100.00

CONTOUR

100.00

BATTER

K&G

KERB AND GUTTER

REFER DRG: C14.11 FOR COUNCIL

STANDARD DETAIL

SS

SUBSOIL DRAINAGE LINE

FP

SUBSOIL FLUSHING POINT

375

PIPE SIZE

STORMWATER DRAINAGE LINE

FLOW DIRECTION

A01/01

STORMWATER LINE/PIT NUMBER

K&G

KERB INLET PIT

K&G

SURFACE INLET PIT/JUNCTION PIT

100.00

NEPEAN BUSINESS PARK TO BE RETAINED

AS APPROVED UNDER DA 9876

100.00

NEPEAN BUSINESS PARK

APPROVED UNDER DA 9876 TO BE

AMENDED UNDER THIS DA

2

24/02/2025

ISSUED FOR DEVELOPMENT APPLICATION

JSH

AL

MKH

1

04/12/2024

ISSUED FOR DEVELOPMENT APPLICATION

DK

AL

MKH

REV.

DATE

DESCRIPTION

DRN.

DES.

VERIF.

APPD.

NEPEAN BUSINESS PARK

SCALE 1:500

@A1

North

N

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Project

NEPEAN BUSINESS PARK

PENRITH

Title

SITEWORKS AND STORMWATER MANAGEMENT PLAN

SHEET 2

Scale

1:500

First Issue Date

04/12/2024

Size

A1

Datum

AHD

Status

FOR APPROVAL

NOT TO BE USED FOR CONSTRUCTION

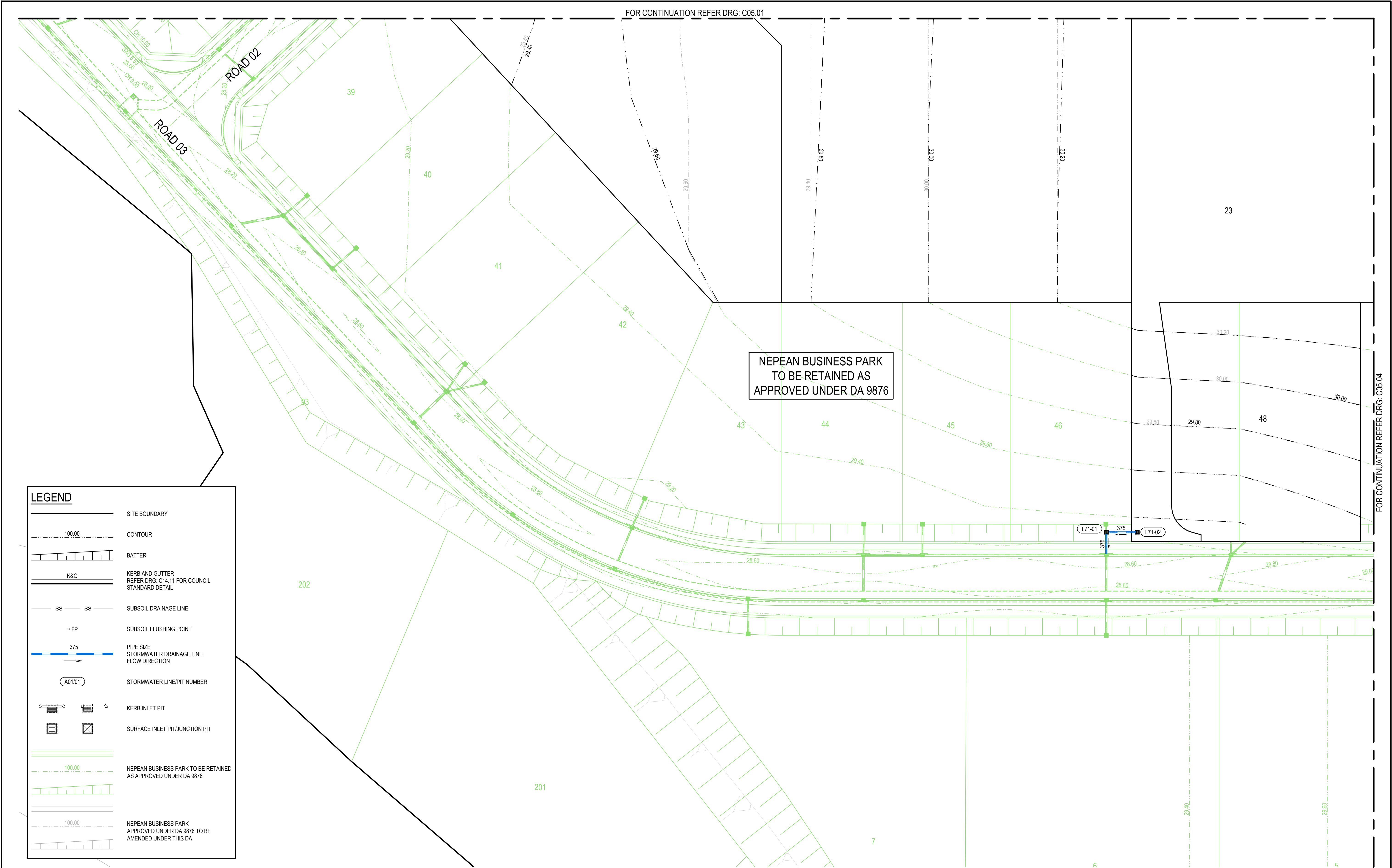
Project Number/Drawing Number

200044-09-DA-C05.02

Revision

2

DATE PLOTTED: 26 February 2025 4:29 PM BY: JOSEPH SHELAMON



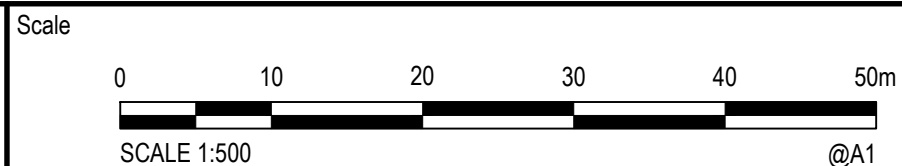
LEGEND

- SITE BOUNDARY
- 100.00 CONTOUR
- BATTER
- K&G KERB AND GUTTER
REFER DRG: C14.11 FOR COUNCIL
STANDARD DETAIL
- SS — SS — SUBSOIL DRAINAGE LINE
- o FP SUBSOIL FLUSHING POINT
- 375 PIPE SIZE
STORMWATER DRAINAGE LINE
FLOW DIRECTION
- A01/01 STORMWATER LINE/PIT NUMBER
- KERB INLET PIT
- SURFACE INLET PIT/JUNCTION PIT
- 100.00 NEPEAN BUSINESS PARK TO BE RETAINED
AS APPROVED UNDER DA 9876
- 100.00 NEPEAN BUSINESS PARK
APPROVED UNDER DA 9876 TO BE
AMENDED UNDER THIS DA

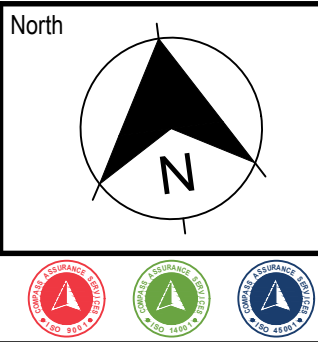
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1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH
REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.

Client

NEPEAN
BUSINESS
PARK



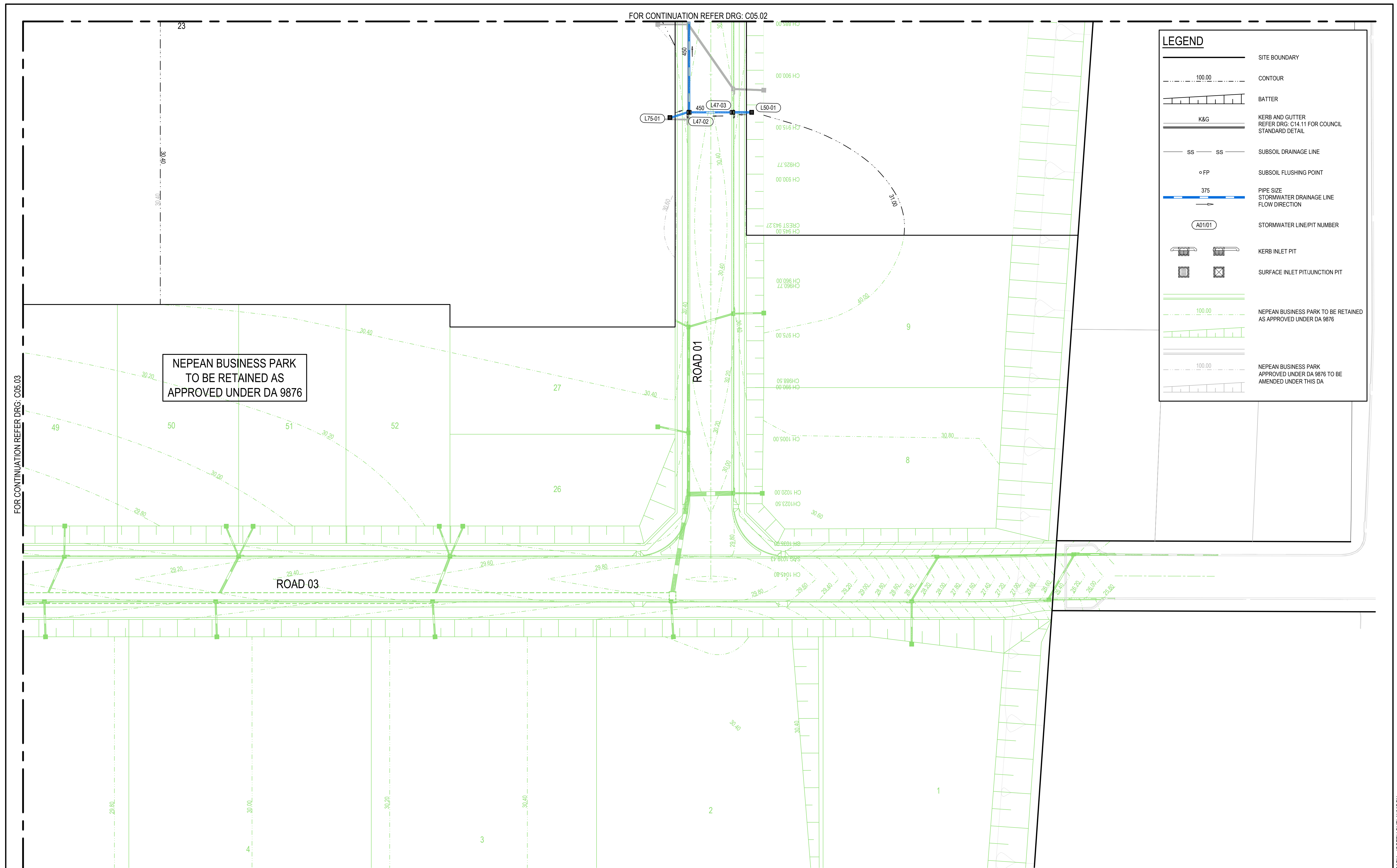
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Project NEPEAN BUSINESS PARK PENRITH	Title SITEWORKS AND STORMWATER MANAGEMENT PLAN SHEET 3
--	--

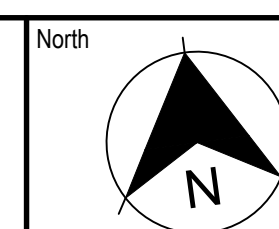
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Size A1 Datum AHD	Project Number/Drawing Number 200044-09-DA-C05.03
	Revision 2

[illegible]

Scale

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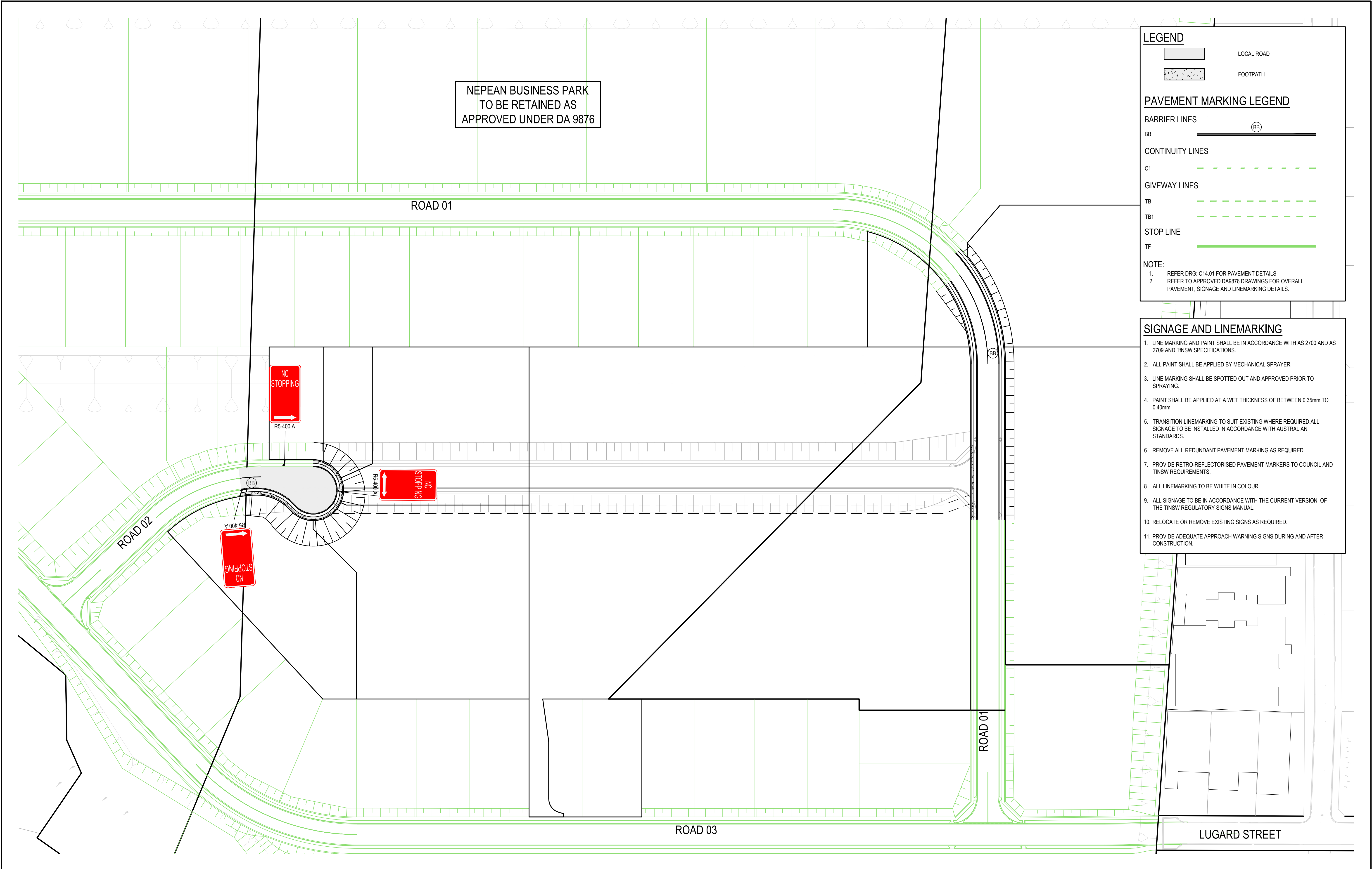
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Project	NEPEAN BUSINESS PARK PENRITH
Title	SITeworks AND STORMWATER MANAGEMENT PLAN SHEET 4

N	Scale	Status		
	1:500	<div style="text-align: center;"> FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION </div>		
	First Issue Date 04/12/2024			
	Size	Project Number/Drawing Number	Revision	
	A1	200044-09-DA-C05.04	2	
	Datum AHD			



LEGEND

LOCAL ROAD

FOOTPATH

PAVEMENT MARKING LEGEND

BARRIER LINES

BB

CONTINUITY LINES

C1

GIVEWAY LINES

TB

TB1

STOP LINE

TF

NOTE:

1. REFER DRG: C14.01 FOR PAVEMENT DETAILS.

2. REFER TO APPROVED DA9876 DRAWINGS FOR OVERALL PAVEMENT, SIGNAGE AND LINEMARKING DETAILS.

SIGNAGE AND LINEMARKING

1. LINE MARKING AND PAINT SHALL BE IN ACCORDANCE WITH AS 2700 AND AS 2709 AND TNSW SPECIFICATIONS.

2. ALL PAINT SHALL BE APPLIED BY MECHANICAL SPRAYER.

3. LINE MARKING SHALL BE SPOTTED OUT AND APPROVED PRIOR TO SPRAYING.

4. PAINT SHALL BE APPLIED AT A WET THICKNESS OF BETWEEN 0.35mm TO 0.40mm.

5. TRANSITION LINEMARKING TO SUIT EXISTING WHERE REQUIRED ALL SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AUSTRALIAN STANDARDS.

6. REMOVE ALL REDUNDANT PAVEMENT MARKING AS REQUIRED.

7. PROVIDE RETRO-REFLECTORISED PAVEMENT MARKERS TO COUNCIL AND TNSW REQUIREMENTS.

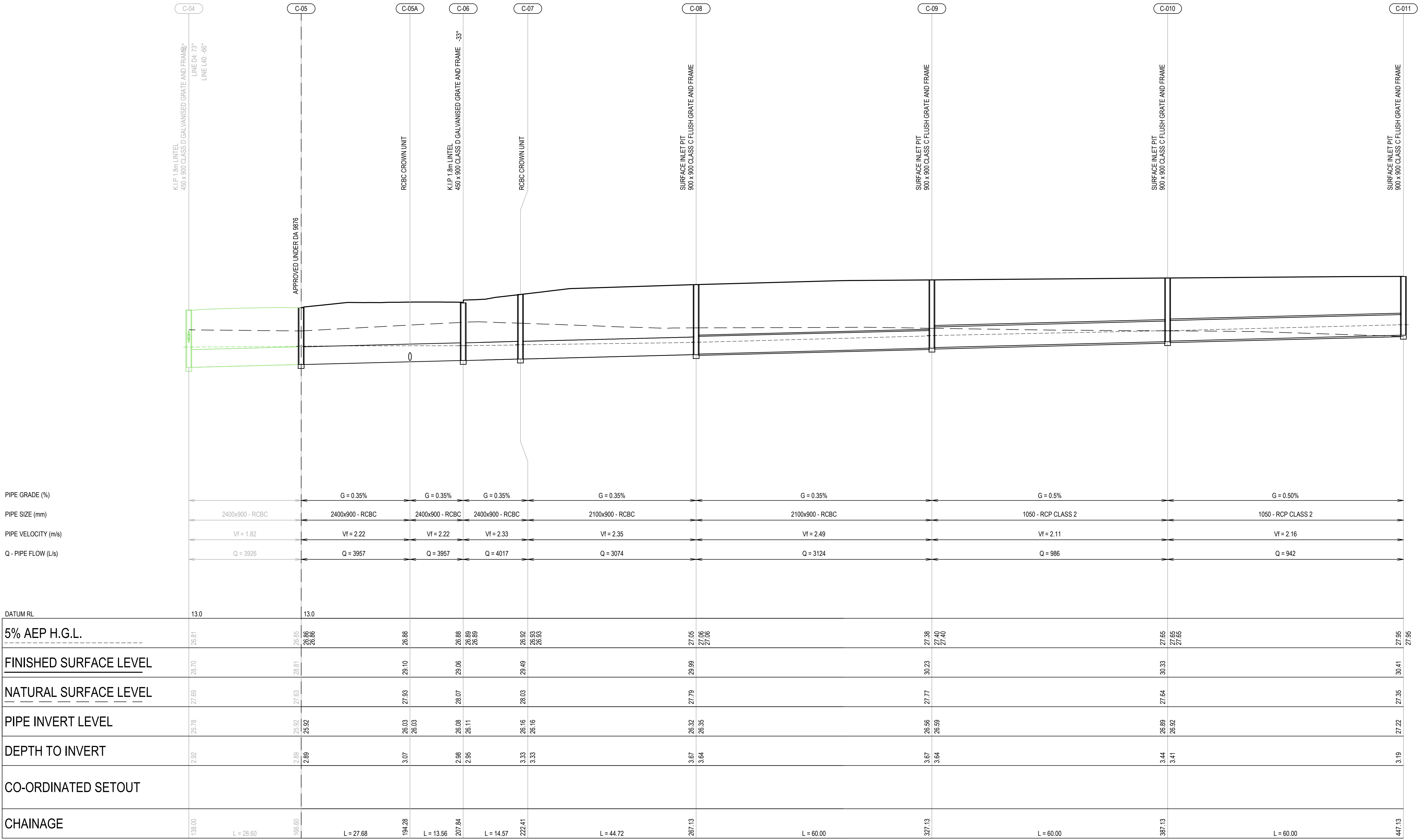
8. ALL LINEMARKING TO BE WHITE IN COLOUR.

9. ALL SIGNAGE TO BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE TNSW REGULATORY SIGNS MANUAL.

10. RELOCATE OR REMOVE EXISTING SIGNS AS REQUIRED.

11. PROVIDE ADEQUATE APPROACH WARNING SIGNS DURING AND AFTER CONSTRUCTION.

<div><div></div><div>NEPEAN BUSINESS PARK</div></div>			<div>Scale</div> <div><div>020406080100m</div><div>SCALE 1:1000 @A1</div></div>		<div>North</div> <div><div></div><div>N</div></div>		<div><div></div><div>Enspire Solutions Pty Ltd Level 4, 153 Walker Street, North Sydney NSW 2060 ABN: 71 624 801 690 Phone: 02 9922 6135 enspiresolutions.com.au</div></div>		<div>Project</div> <div>NEPEAN BUSINESS PARK PENRITH</div>		<div>Scale</div> <div>1:1000</div>		<div>Status</div> <div>FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION</div>	
<div><div>3</div><div>26/02/2025</div><div>ISSUED FOR DEVELOPMENT APPLICATION</div><div>JSH</div><div>AL</div><div>MKH</div></div>									<div>Title</div> <div>PAVEMENT, SIGNAGE AND LINEMARKING PLAN</div>		<div>First Issue Date</div> <div>04/12/2024</div>			
<div><div>2</div><div>24/02/2025</div><div>ISSUED FOR DEVELOPMENT APPLICATION</div><div>JSH</div><div>AL</div><div>MKH</div></div>											<div>Size</div> <div>A1</div>			
<div><div>1</div><div>04/12/2024</div><div>ISSUED FOR DEVELOPMENT APPLICATION</div><div>DK</div><div>AL</div><div>MKH</div></div>											<div>Datum</div> <div>AHD</div>			
<div>REV. DATE DESCRIPTION DRN. DES. VERIF. APPD.</div>											<div>Project Number/Drawing Number</div> <div>200044-09-DA-C11.01</div>		<div>Revision</div> <div>3</div>	



LINE C

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client



NEPEAN
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Scale

H: 01020304050m

V: 0246810m

SCALE: H:1:500 V:1:100

@A1

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Project
NEPEAN BUSINESS PARK
PENRITH

Title
STORMWATER LONGSECTIONS
SHEET 1

Scale
AS SHOWN
First Issue Date
04/12/2024

Size
A1
Datum
AHD

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Project Number/Drawing Number
200044-09-DA-C13.01

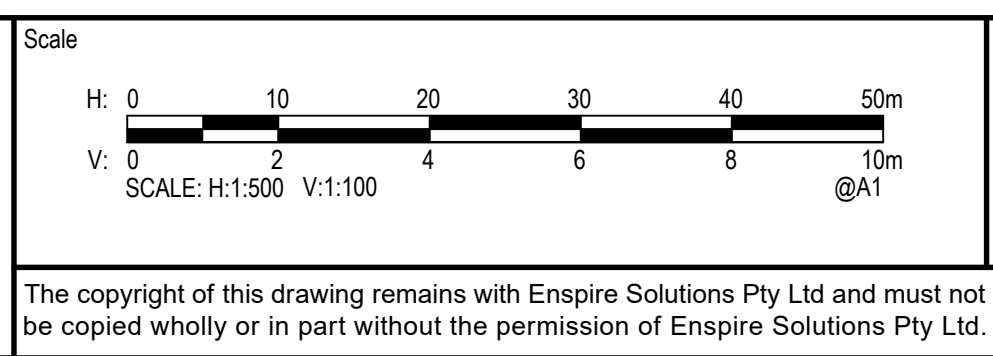
Revision
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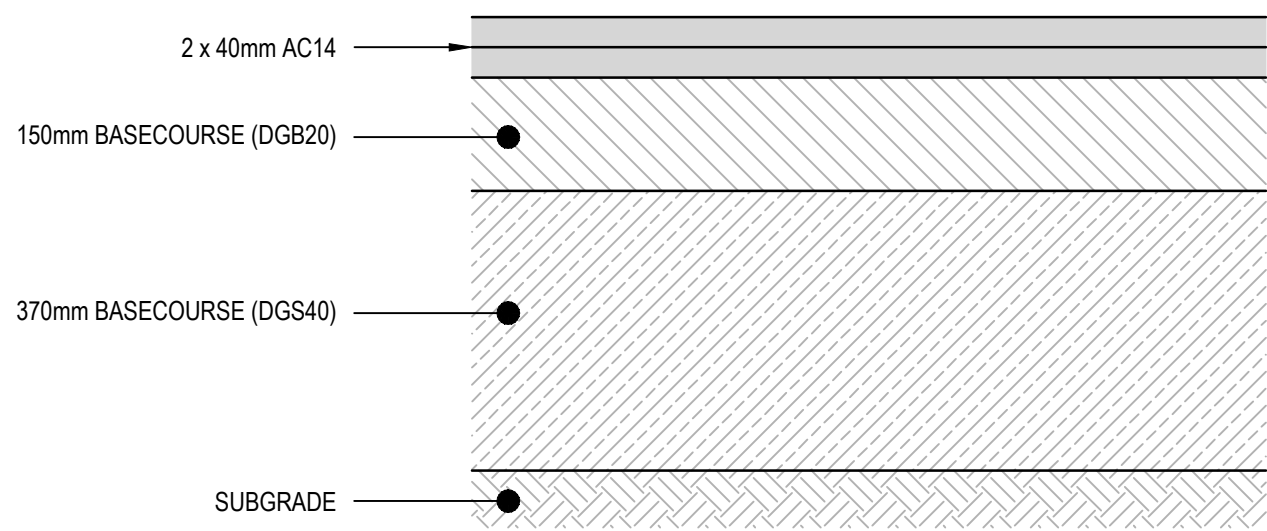
Client



NEPEAN
BUSINESS
PARK

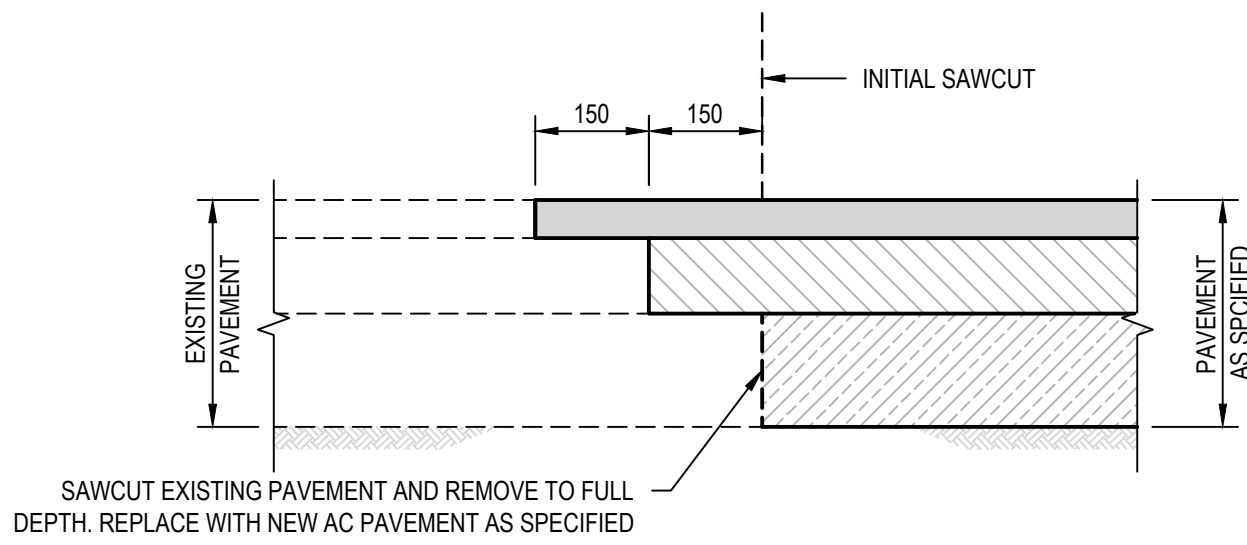


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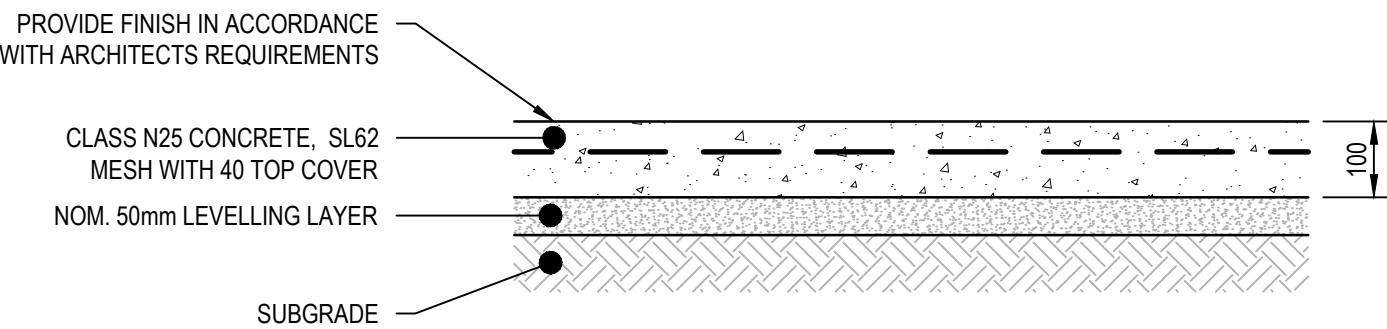
PRIVATE LOCAL ROAD
SCALE 1:10

- NOTES:
- 1. MIN CBR 4.0% (CONTRACTOR TO CONFIRM ONSITE).
 - 2. DESIGN LOADING = 5x10⁶ ESA's
 - 3. PRIME AND TACK COAT BASECOURSE SURFACE PRIOR TO PLACEMENT OF AC WEARING COURSE.

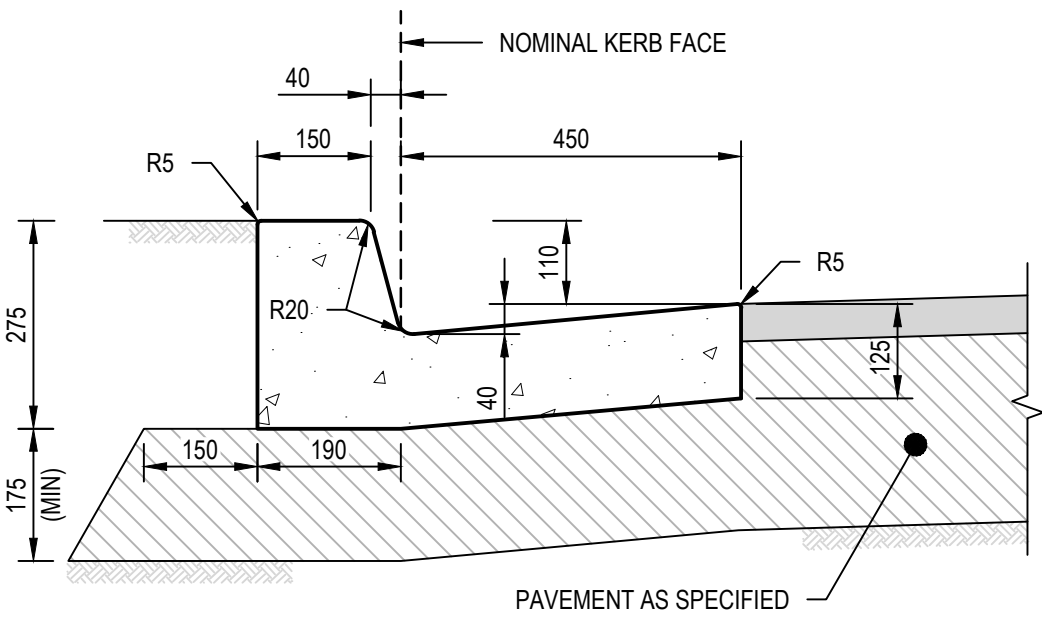


FLEXIBLE PAVEMENT INTERFACE DETAIL
NEW TO EXISTING
SCALE 1:10

- NOTE:
- TACK COAT EXISTING PAVEMENT BASE AND AC INTERFACE PRIOR TO PLACEMENT OF NEW AC WEARING COURSE.



FOOTPATH
SCALE 1:10



KERB AND GUTTER (K&G)
SCALE 1:10

- NOTE:
- PROVIDE TOOL JOINTS AT MAX. 3.0m CTRS.

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client

 **NEPEAN BUSINESS PARK**

Scale

0 200 400 600 800 1000mm

SCALE 1:10 @A1

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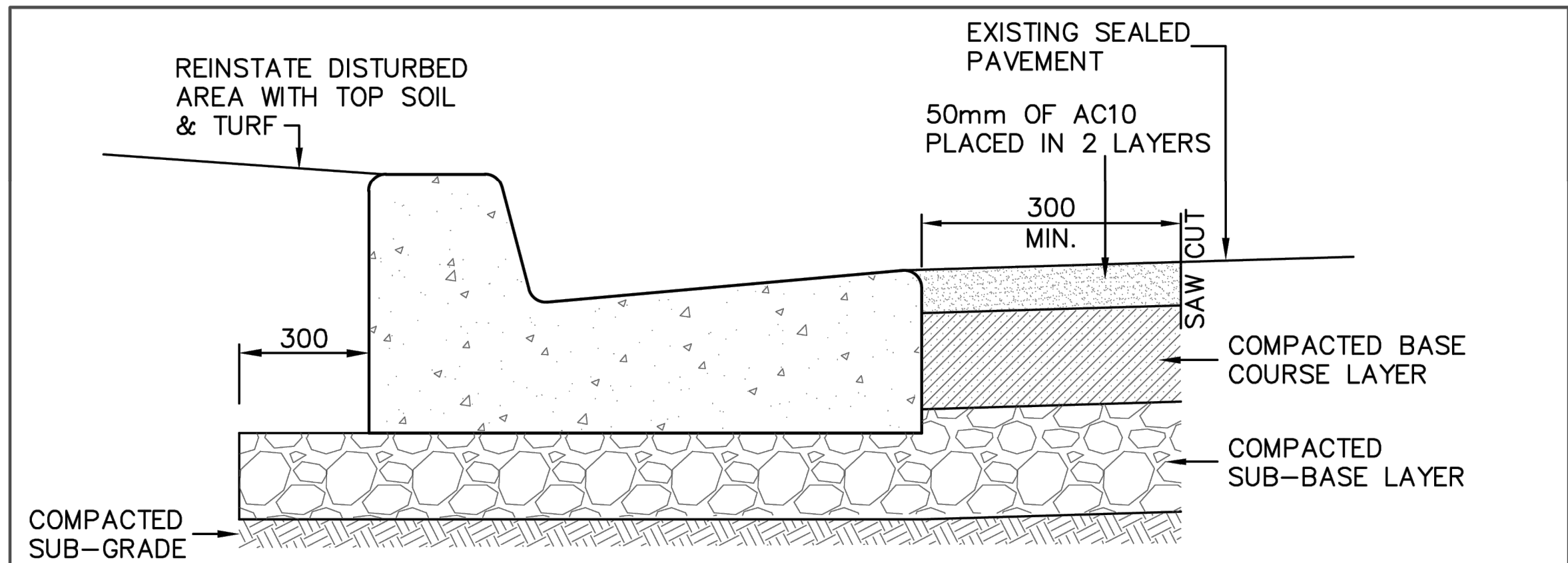


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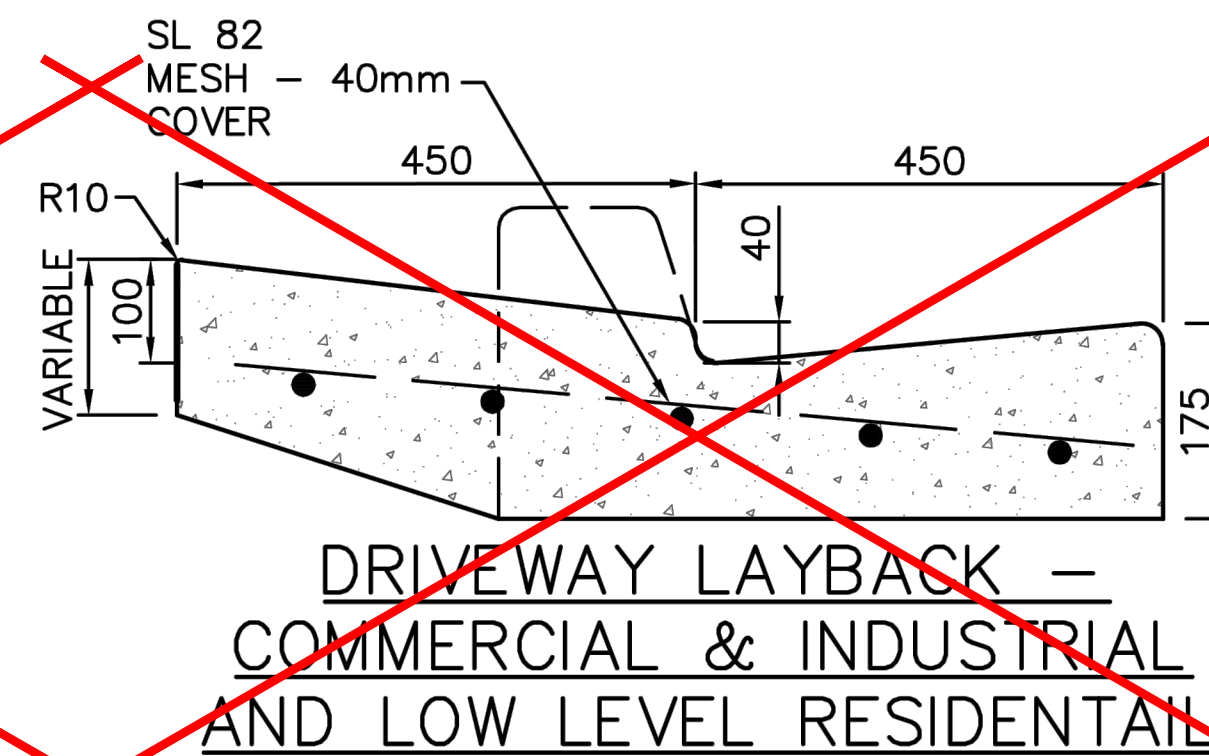
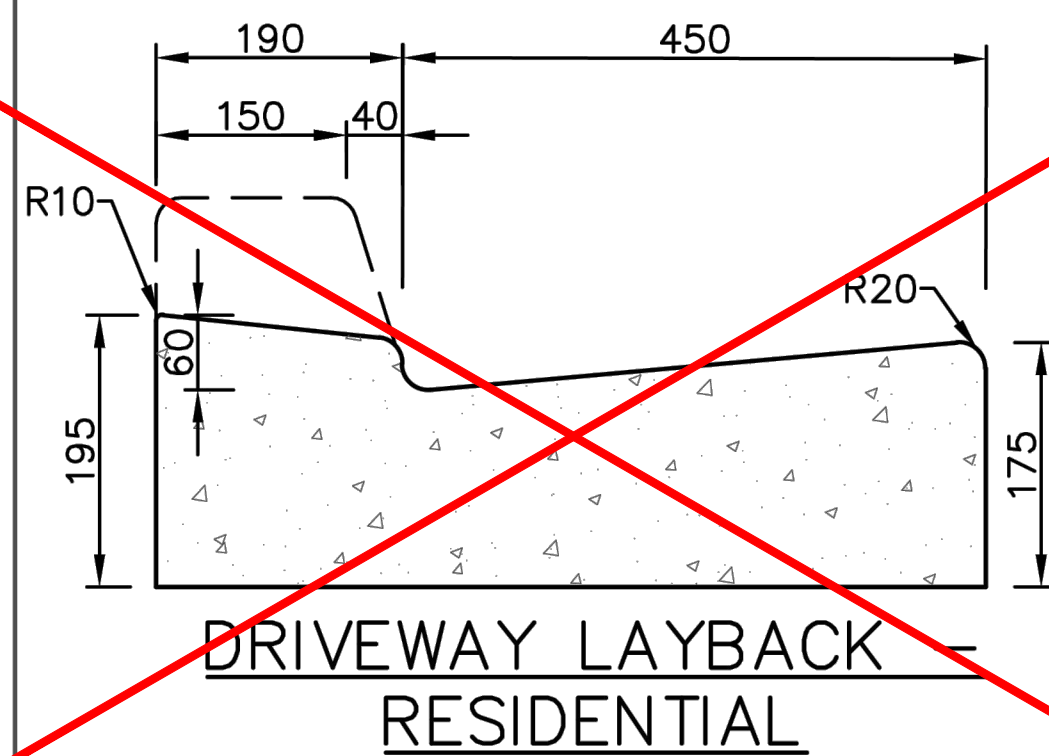
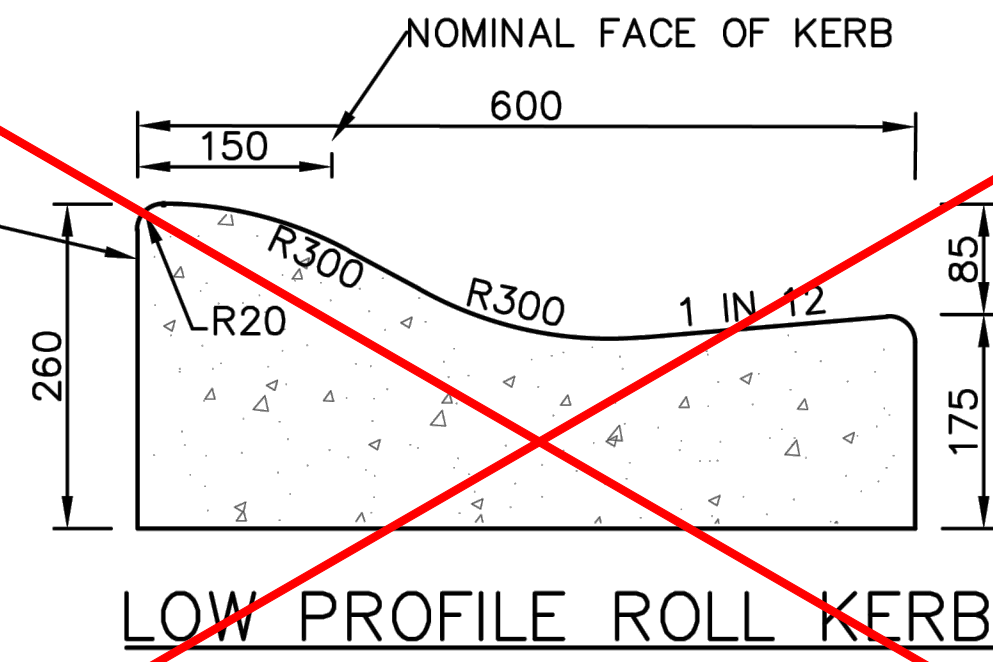
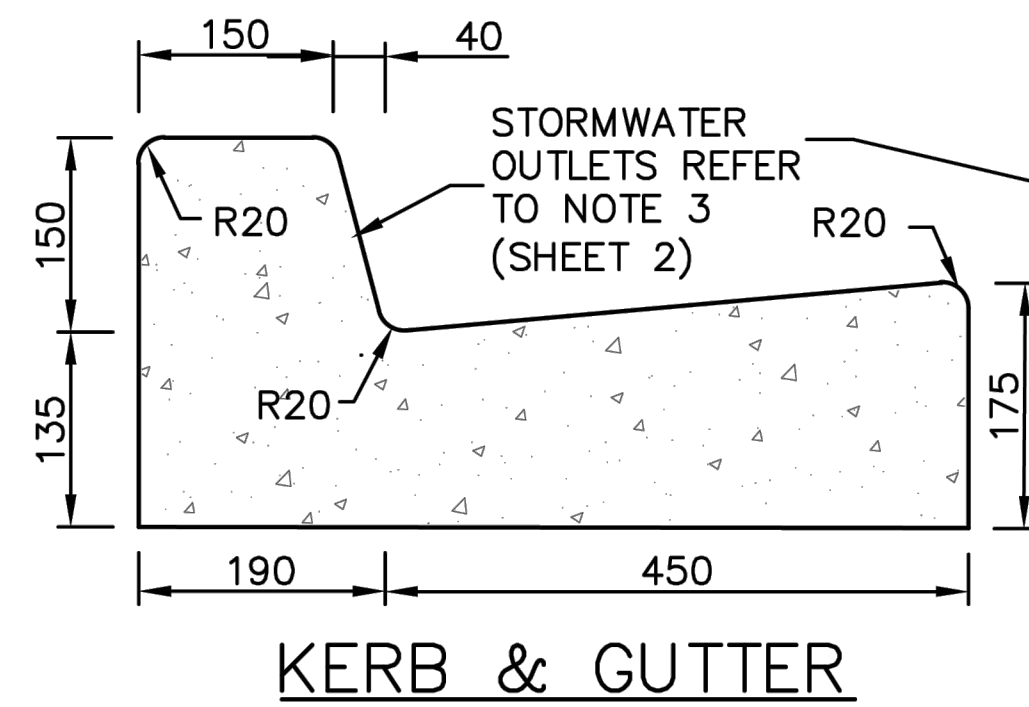
Project
NEPEAN BUSINESS PARK
PENRITH

Title
SITEWORK DETAILS

Scale 1:10	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	
First Issue Date 04/12/2024		
Size A1		
Datum AHD	Project Number/Drawing Number 200044-09-DA-C14.01	Revision 2



TYPICAL KERB & GUTTER RECONSTRUCTION
REFER NOTE 6 (SHEET 2)



DRAWN:	STANDARD KERB & GUTTER, LAYBACKS & DISH CROSSING SHEET 1 OF 2	APPROVED:
PENRITH CITY COUNCIL		PLAN No: SD1003/1

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH

Client

 NEPEAN
BUSINESS
PARK

Scale

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Project
NEPEAN BUSINESS PARK
PENRITH

Title
COUNCIL DETAILS
SHEET 1

Scale

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

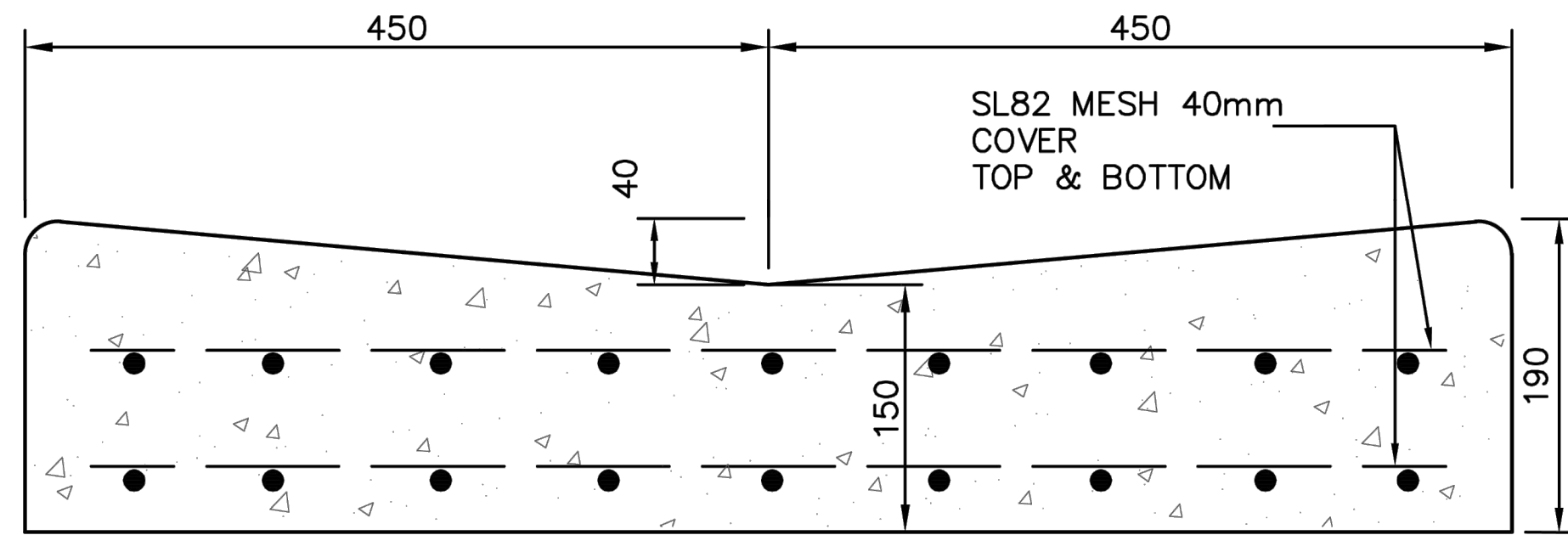
First Issue Date
04/12/2024

Size
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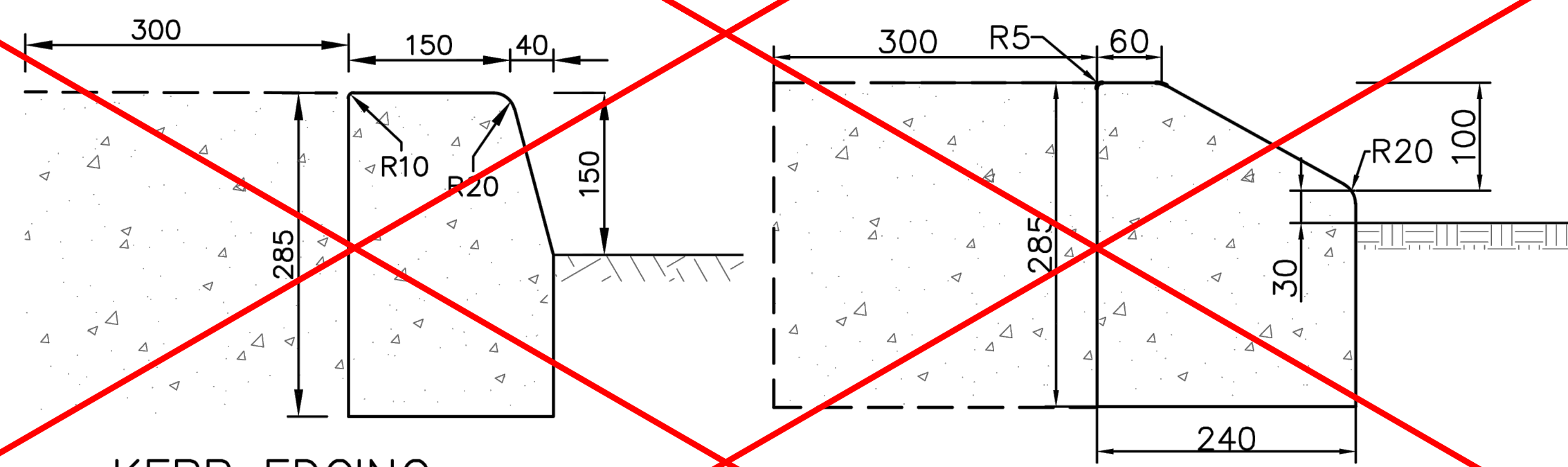
Datum
AHD

Project Number/Drawing Number
200044-09-DA-C14.11

Revision
2



REINFORCED DISH CROSSING



KERB EDGING

MOUNTABLE KERB

NOTES

1. CONCRETE COMPRESSIVE STRENGTH (F'_c) AT 28 DAYS, TO BE 25MPa FOR KERB & GUTTER AND DISH CROSSINGS.
2. ROAD SUB-BASE SHALL BE EXTENDED 300mm BEHIND BACK OF KERB WITH THE THICKNESS TO BE NOT LESS THAN THE ROAD PAVEMENT SUB-BASE THICKNESS.
3. GALVANIZED STEEL OR SIMILAR APPROVED STORMWATER KERB ADAPTORS THE FULL HEIGHT OF THE KERB SHALL BE USED. THE KERB OUTLETS ARE TO MATCH THE PROFILE OF THE KERB. SEE SPECIFICATION
4. ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE STATED.
5. ALL EXPOSED EDGES TO BE ROUNDED TO 20mm RADIUS UNLESS SHOWN OTHERWISE
6. SPECIFICATIONS FOR RECONSTRUCTION WORKS TO BE DETERMINED BY COUNCIL'S ENGINEER.
7. SERVICE CONDUIT LOCATIONS SHALL BE MARKED ON KERB FACE WITH AN APPROVED TOOL OR AS OTHERWISE DIRECTED.

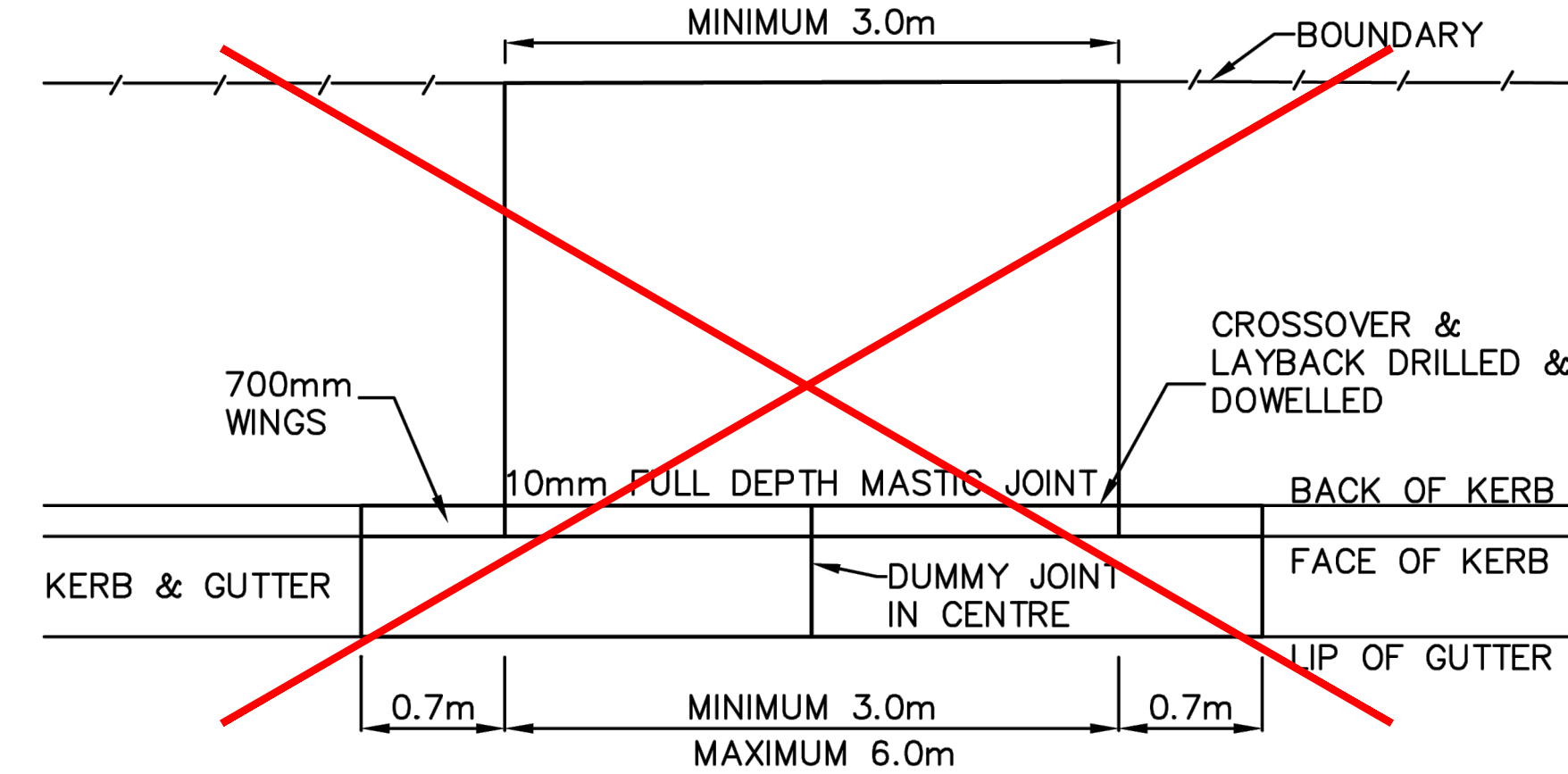
DRAWN:

PENRITH
CITY COUNCIL

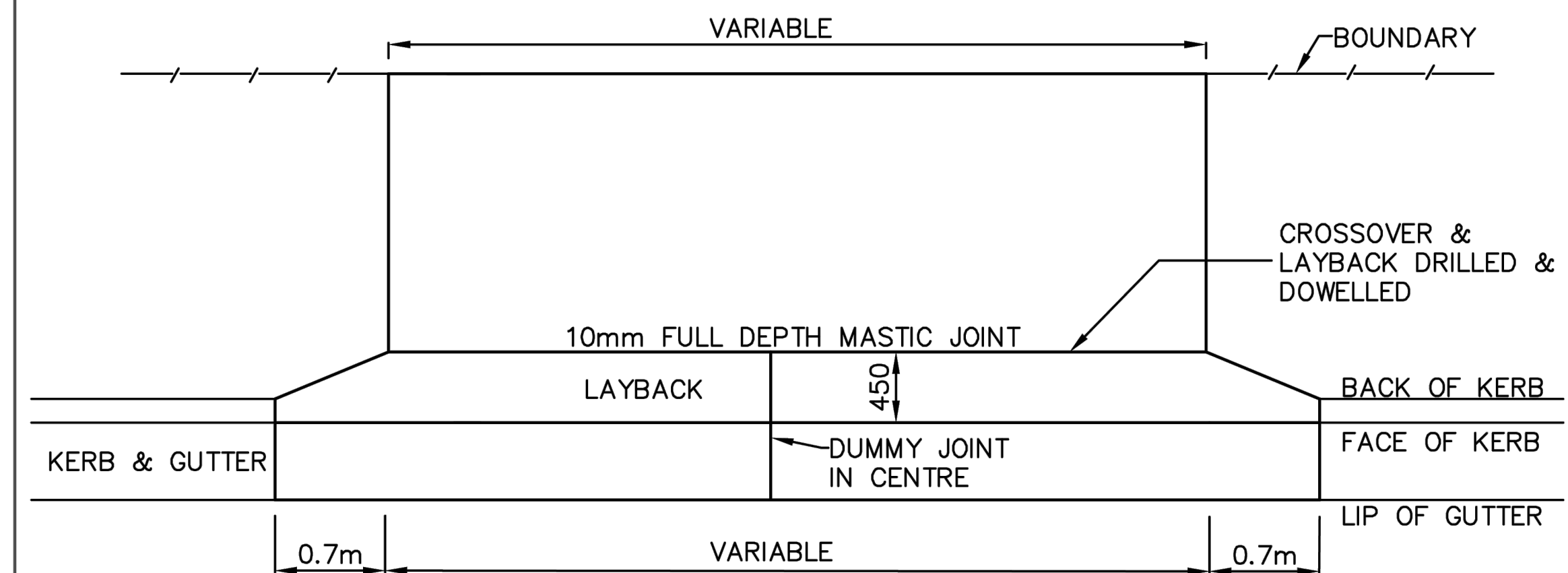
STANDARD KERB & GUTTER,
LAYBACKS & DISH CROSSING
SHEET 2 OF 2

APPROVED:

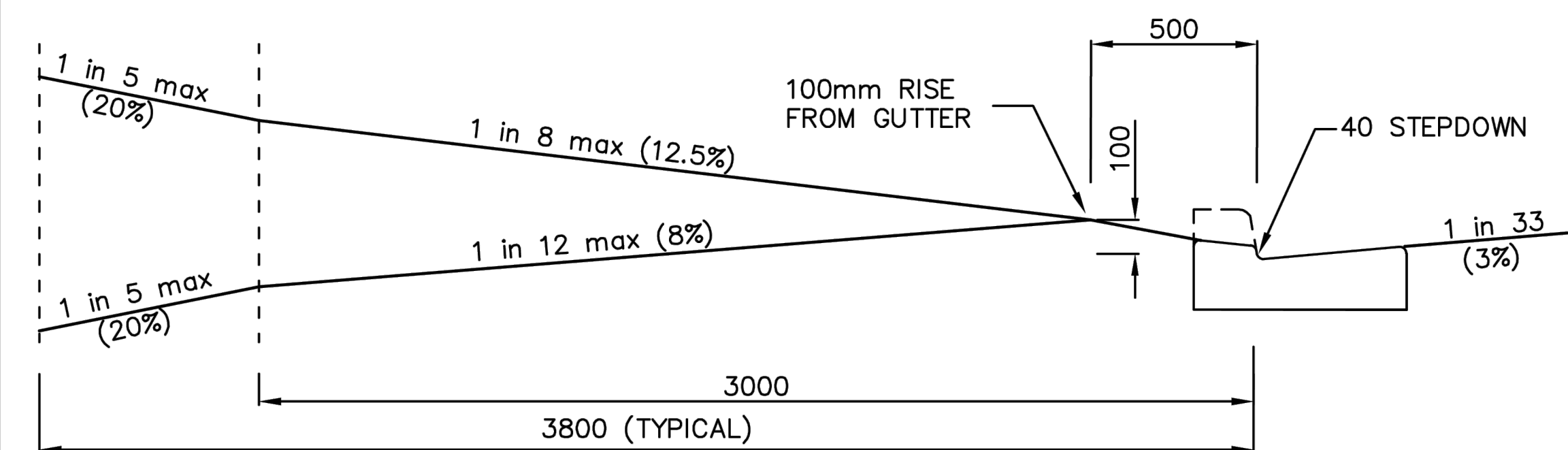
PLAN No:
SD1003/2



RESIDENTIAL



INDUSTRIAL/COMMERCIAL



VEHICULAR CROSSING PROFILE – HIGH & LOW LEVEL

DRAWN:

PENRITH
CITY COUNCIL

TYPICAL VEHICULAR
CROSSOVER

APPROVED:

PLAN No:
SD1004

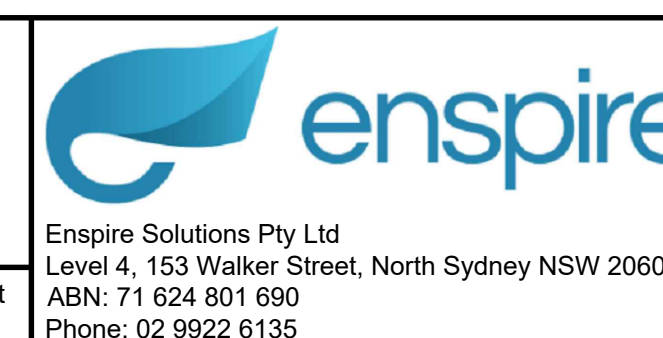
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2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH



Scale

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Project
NEPEAN BUSINESS PARK
PENRITH

Title
COUNCIL DETAILS
SHEET 2

Scale

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

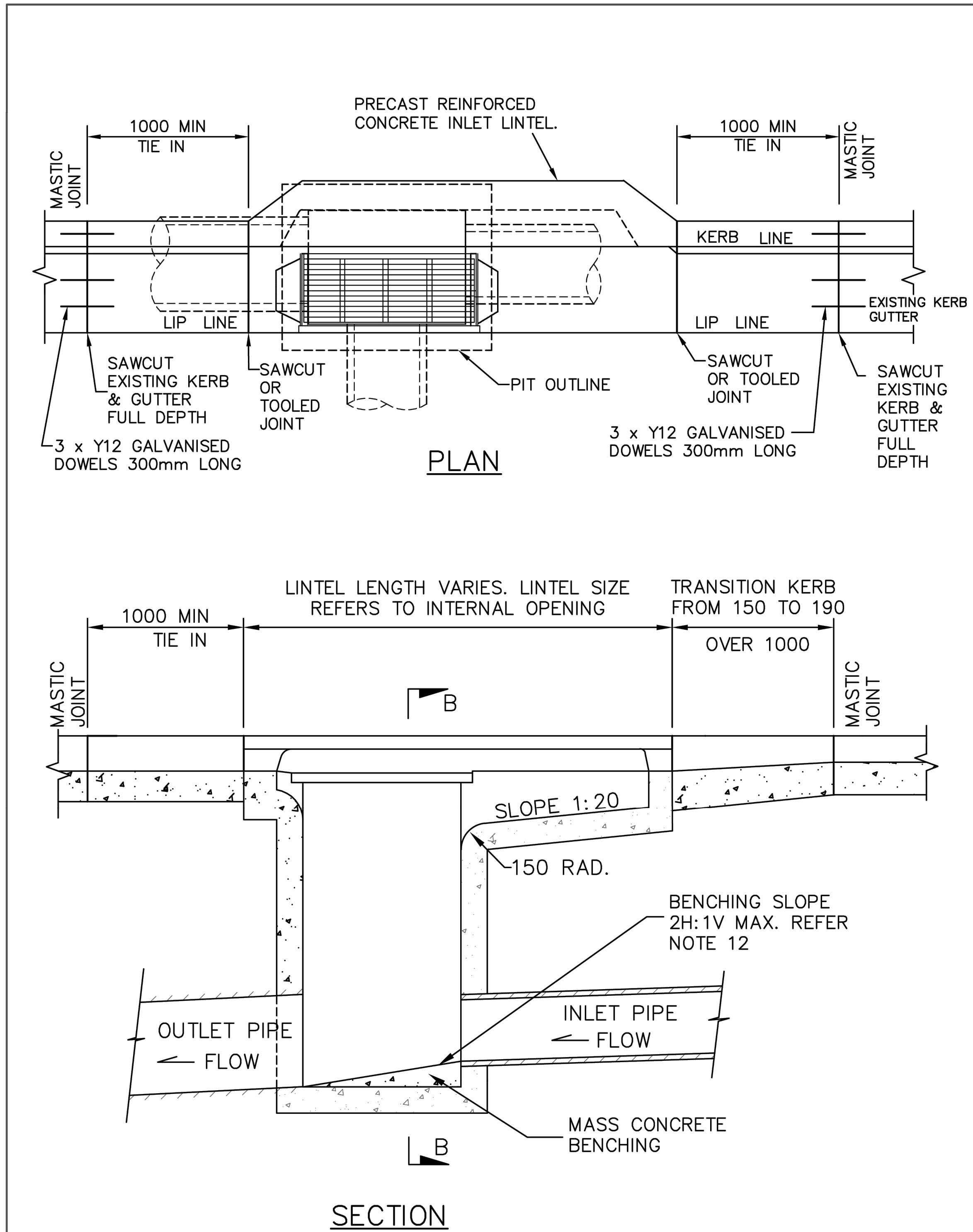
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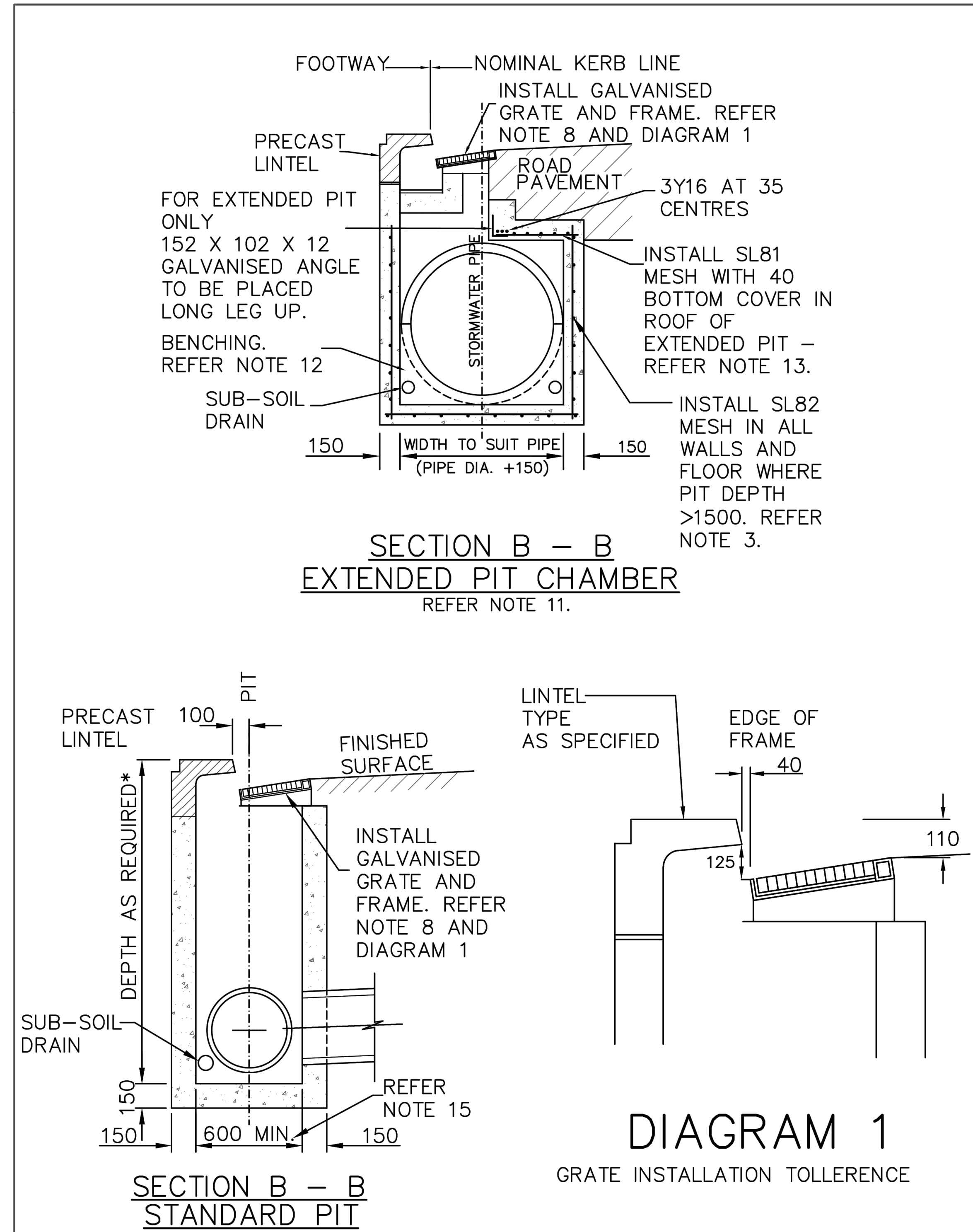
Datum
AHD

Project Number/Drawing Number
200044-09-DA-C14.12

Revision
2



DRAWN: M.WARDA	KERB INLET PIT SHEET 1 OF 3	APPROVED:
PENRITH CITY COUNCIL		PLAN No: SD2001/1



DRAWN: M.WARDA	KERB INLET PIT SHEET 2 OF 3	APPROVED:
PENRITH CITY COUNCIL		PLAN No: SD2001/2

REV	DATE	DESCRIPTION	DRN	DES	VERIF	APPD
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1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH



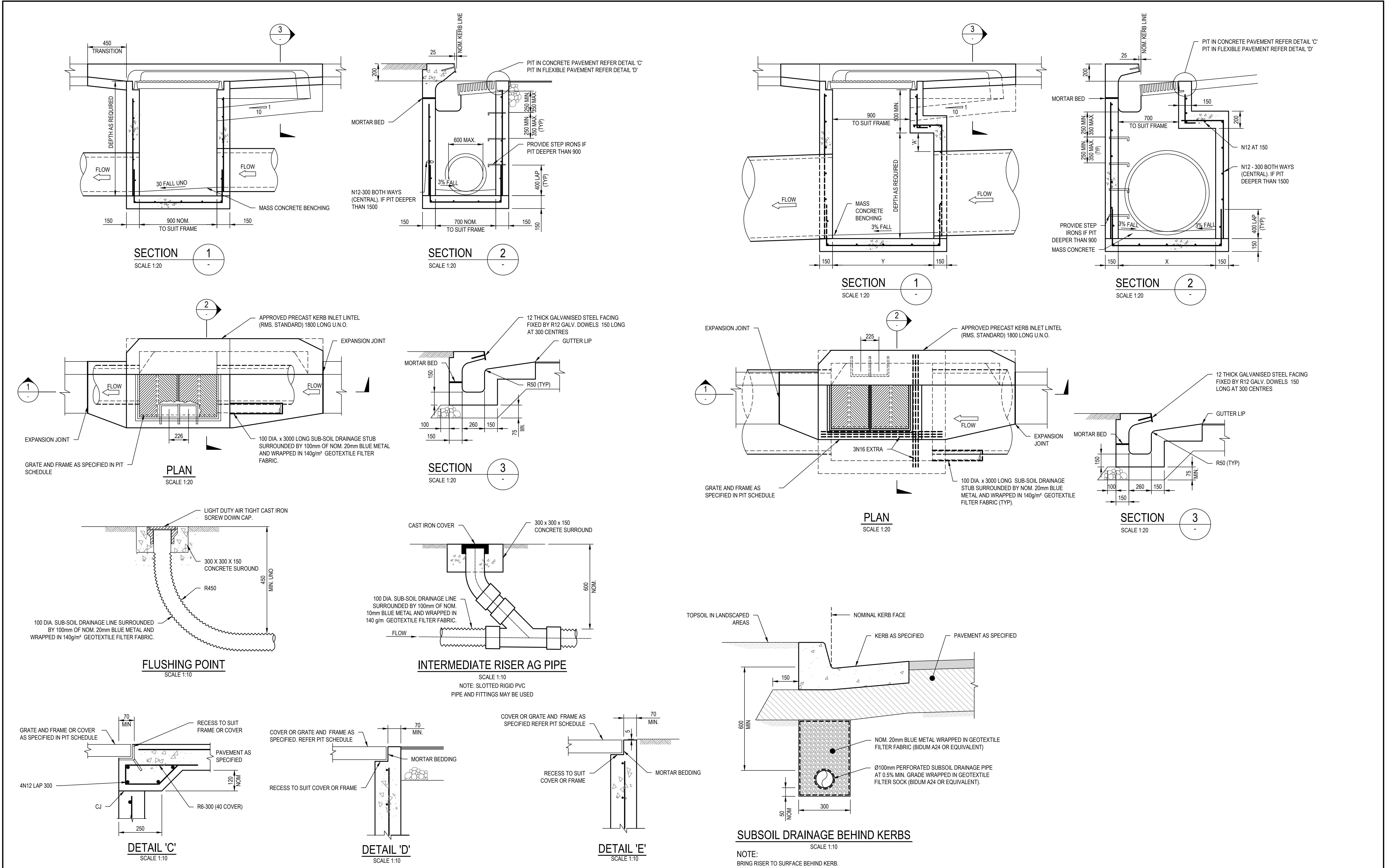
Scale	North
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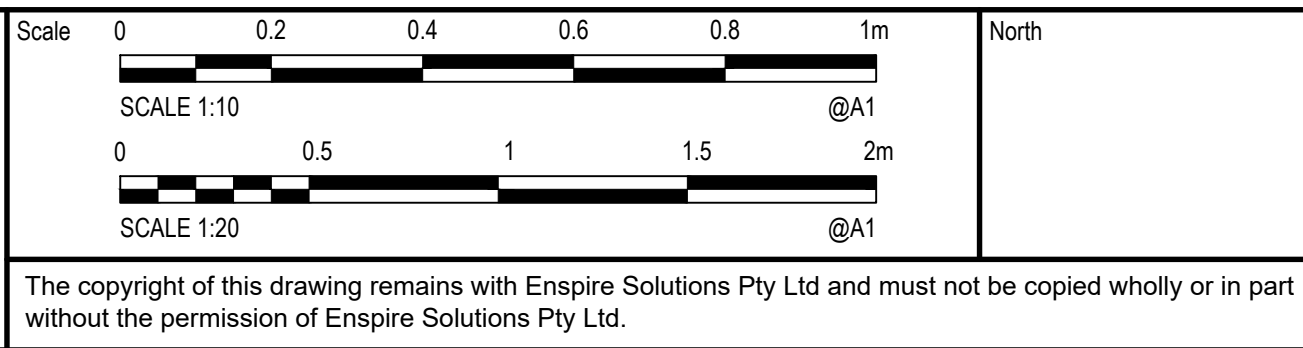
Project NEPEAN BUSINESS PARK PENRITH	Title COUNCIL DETAILS SHEET 3
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Scale	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
First Issue Date 04/12/2024	Project Number/Drawing Number 200044-09-DA-C14.13
Size A1	Revision 2
Datum AHD	

1. CONCRETE TO BE 25MPa AT 28 DAYS.
2. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE
3. WHERE DEPTH OF PIT EXCEEDS 1500, WALLS AND BOTTOM TO BE REINFORCED IN ALL DIRECTIONS WITH SL82 MESH AT 40 COVER TO INSIDE FACE WITH N12 CORNER BARS 300 LEGS AT 400 CENTRES. PITS DEEPER THAN 2000 SHALL BE DESIGNED AND THE CONSTRUCTION CERTIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.
4. TRIMMER BARS TO BE PROVIDED AROUND PIPES GREATER THAN 750 DIAMETER (SEE SD2003).
5. SAG PITS TO HAVE LINTEL LOCATED CENTRALLY OVER PIT.
6. BACKFILL ADJACENT TO PITS TO BE APPROVED GRANULAR MATERIAL.
7. A 3000 LENGTH OF APPROVED "FILTER FABRIC" WRAPPED 100 DIA SUB-SOIL DRAIN IS TO BE PROVIDED AND CONNECTED THROUGH THE UPSTREAM PIT WALL AT THE INVERT LEVEL OF THE UPSTREAM PIPE.
8. PIT GRATE AND FRAME TO BE "WELDLOK" GG51-D GULLY GRATE WITH SKIRTED BASE OR EQUIVALENT FOR ALL ROADS, FITTED WITH A LOCKABLE "J" BOLT OR EQUIVALENT. FOR SAG PITS, USE WELDLOK GG SB 94 SD GULLY GRATE OR EQUIVALENT.
9. APPROVED STEP IRONS SHALL BE PROVIDED WHERE THE PIT EXCEEDS 1000 IN DEPTH. THEY SHALL BE LOCATED AS DIRECTED AND STAGGERED TO GIVE 300 SPACING VERTICALLY AND 300 SPACING HORIZONTALLY.
10. THE CENTRE LINES OF INTERSECTING PIPES ARE TO MEET AT THE DOWNSTREAM FACE OF THE PIT WHERE POSSIBLE.
11. WHERE ENTERING PIPE EXCEEDS 450 IN DIAMETER, PIT CHAMBER TO BE EXTENDED AS PER SECTION B-B 'EXTENDED PIT CHAMBER'.
12. FLOOR OF PIT TO BE BENCHED TO MID POINT OF OUTLET PIPE WHERE OUTLET PIPE GREATER THAN 600 DIAMETER.
13. WHERE EXTENDED CHAMBER WIDTH EXCEEDS 1200, ROOF REINFORCEMENT TO BE DESIGNED BY A PROFESSIONAL STRUCTURAL ENGINEER.
14. CONTRACTOR TO ENSURE CLEARANCE BETWEEN LINTEL AND OPENED GRATE. REFER DIAGRAM 1.
15. WHERE DEPTH OF PIT IS GREATER THAN 1200, INTERNAL WIDTH OF PIT TO BE INCREASED TO 900x900 FOR FULL DEPTH BELOW PAVEMENT.
16. LIFTING LUGS TO BE FILLED AFTER INSTALLATION.

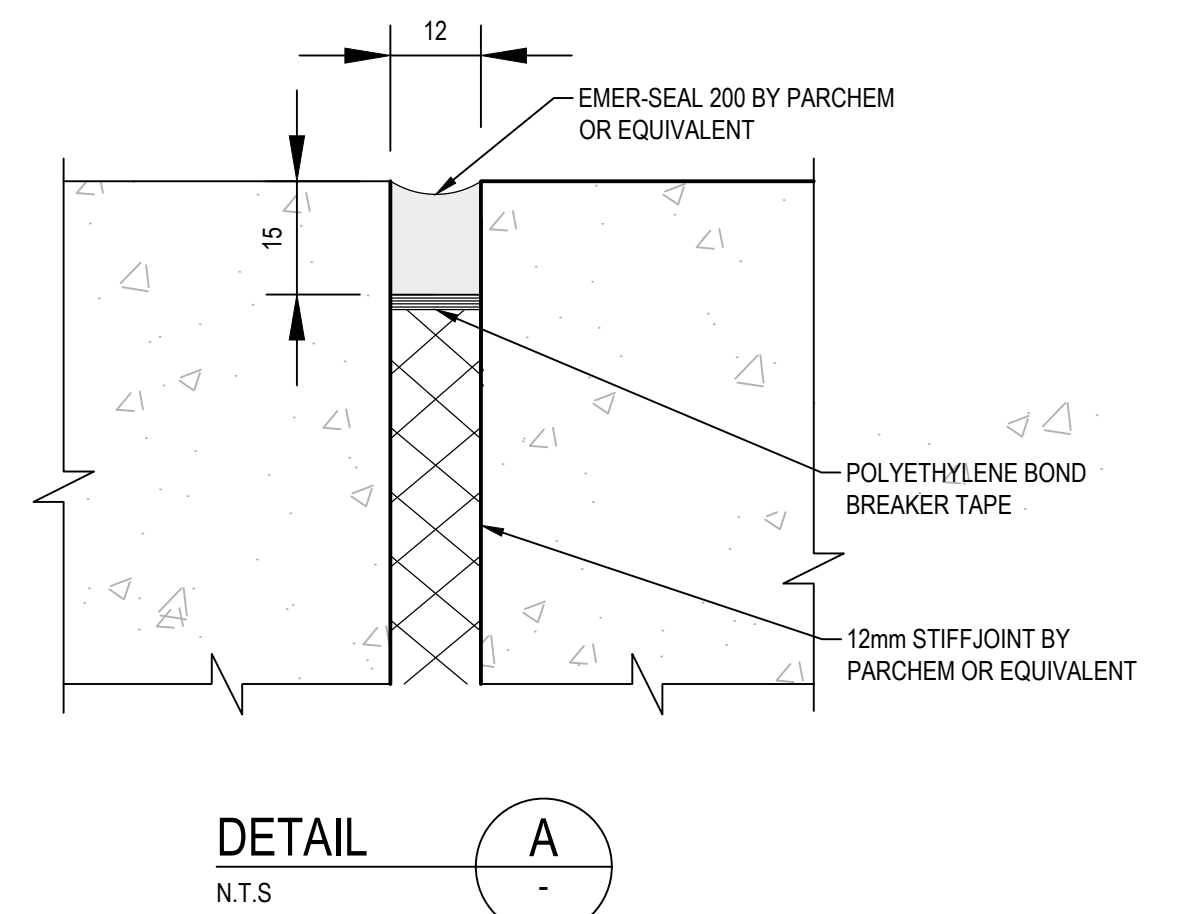
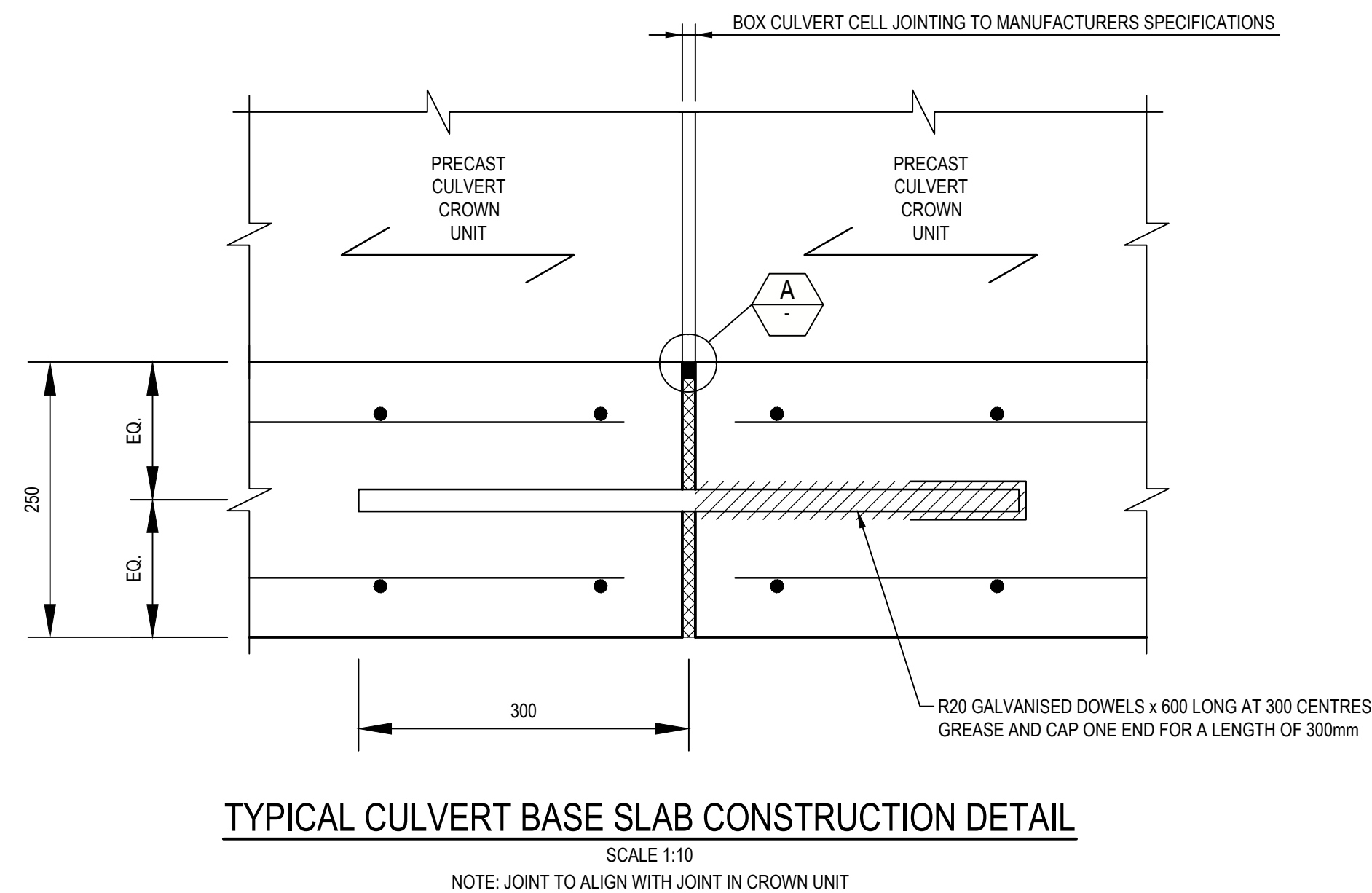
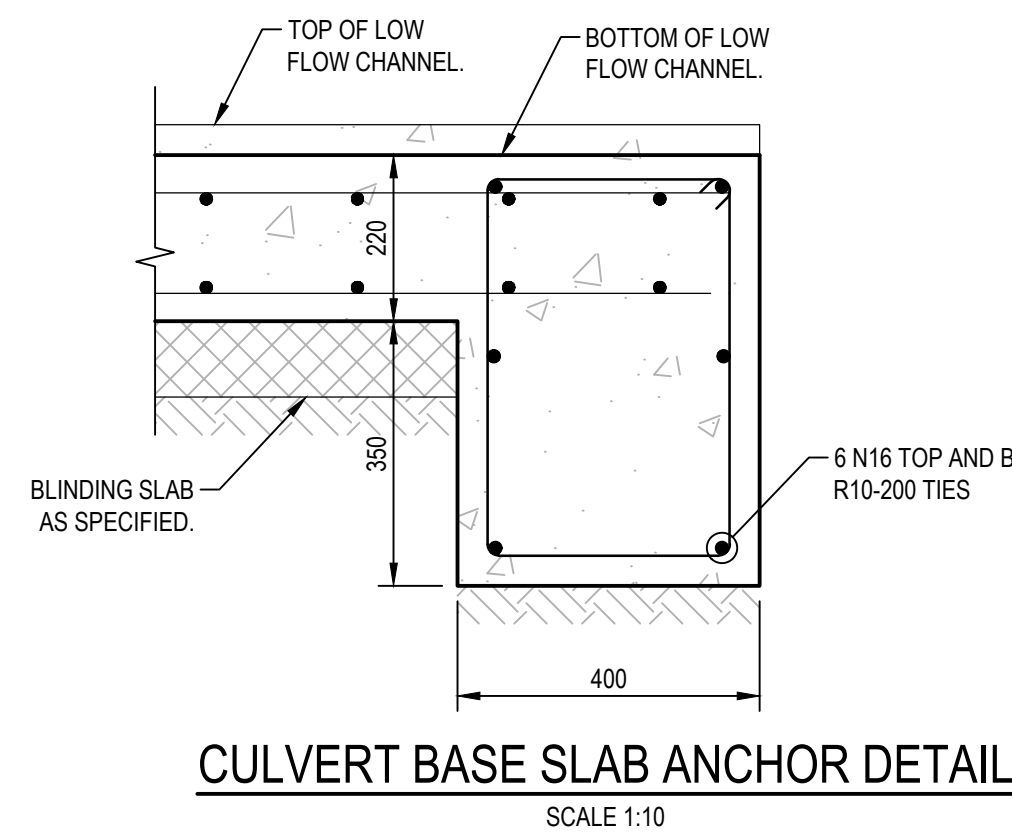
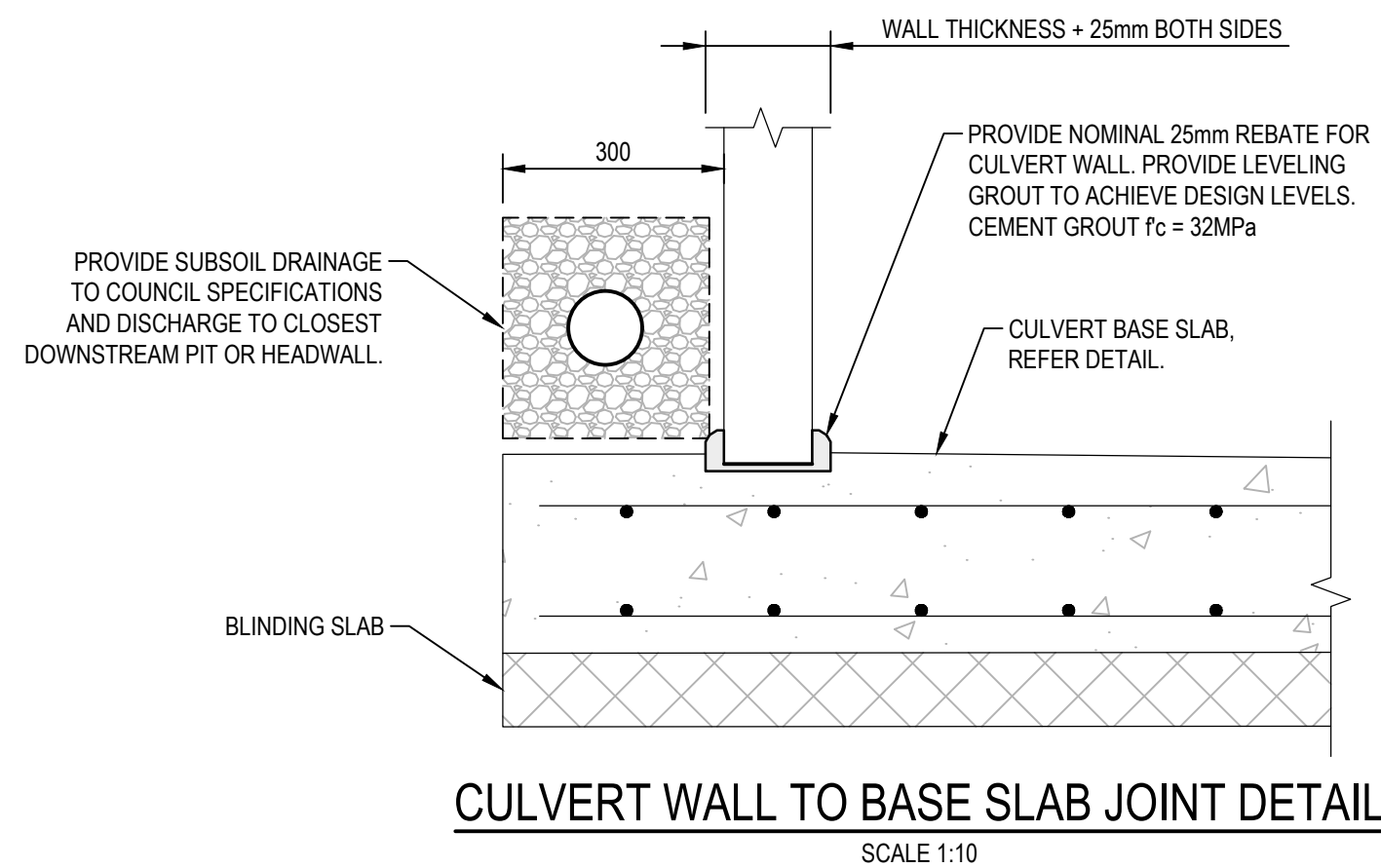
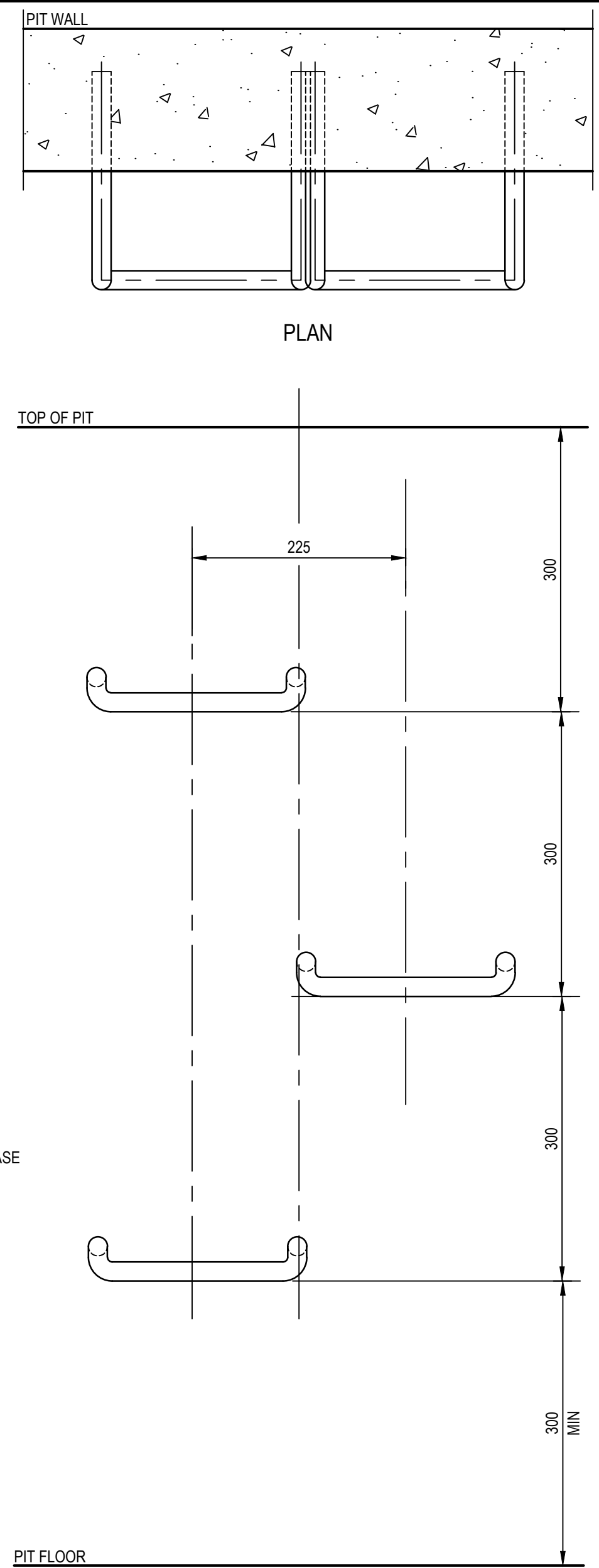
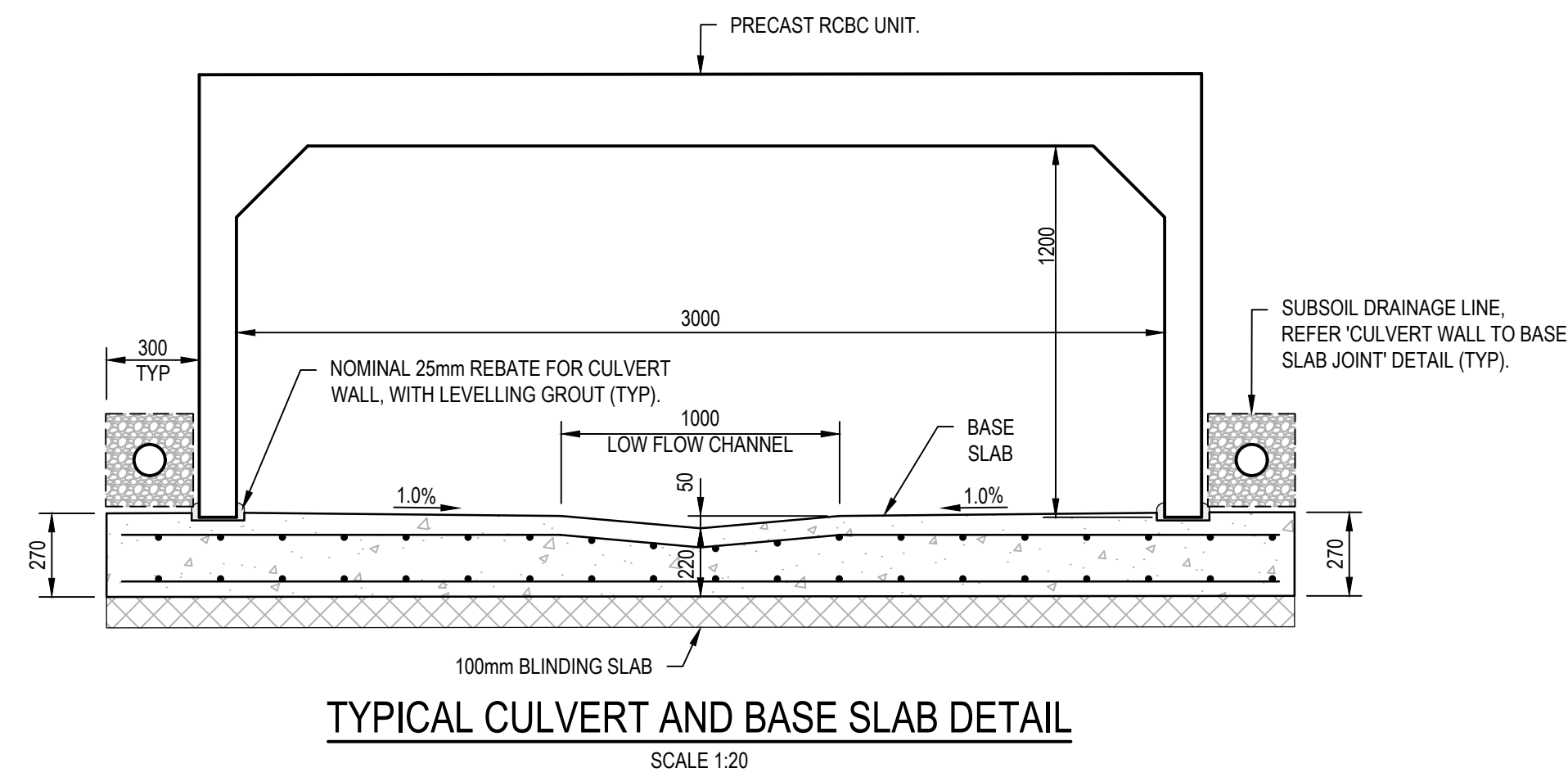
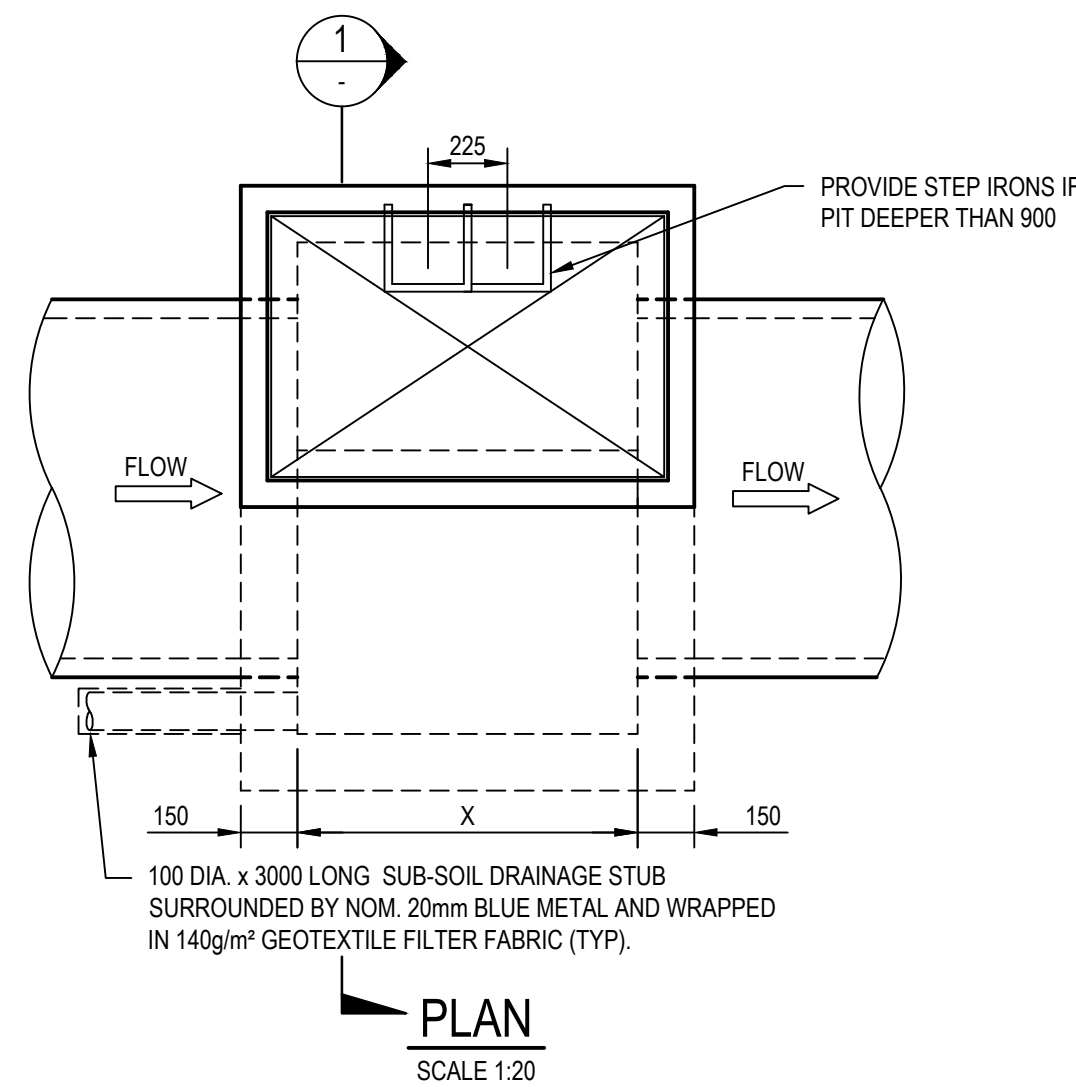
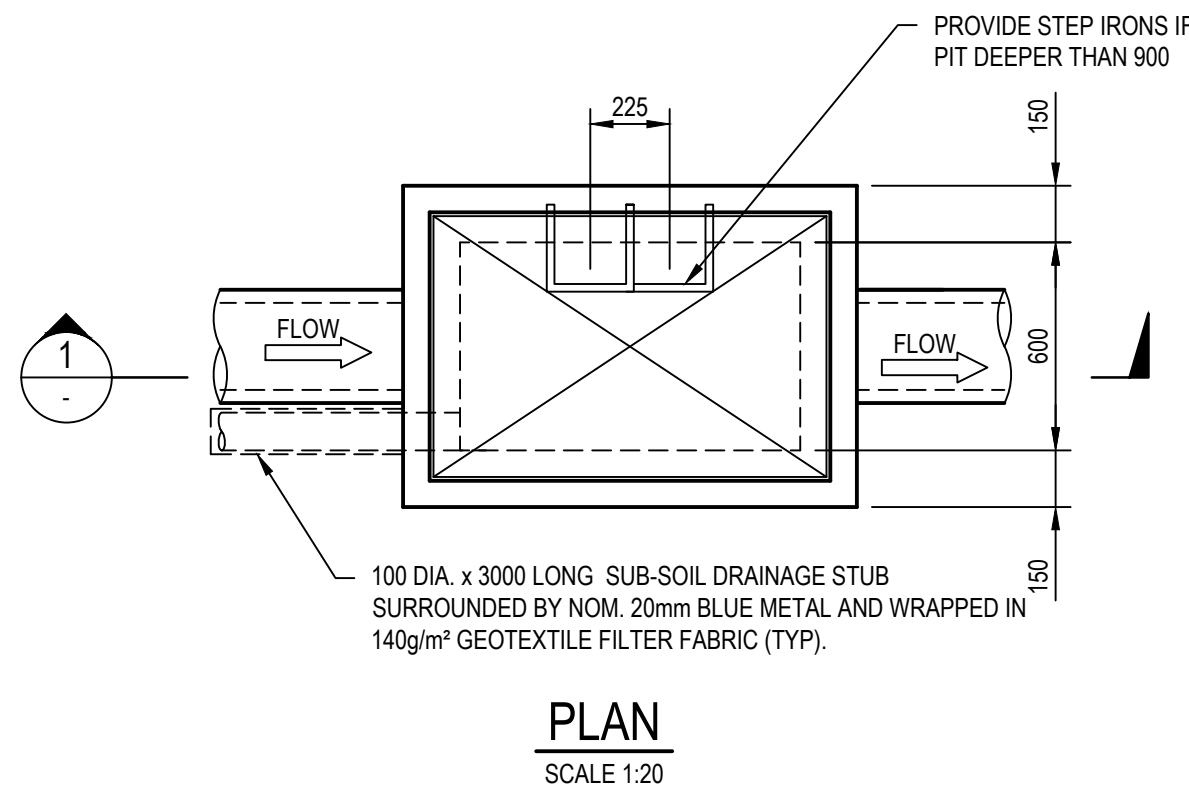
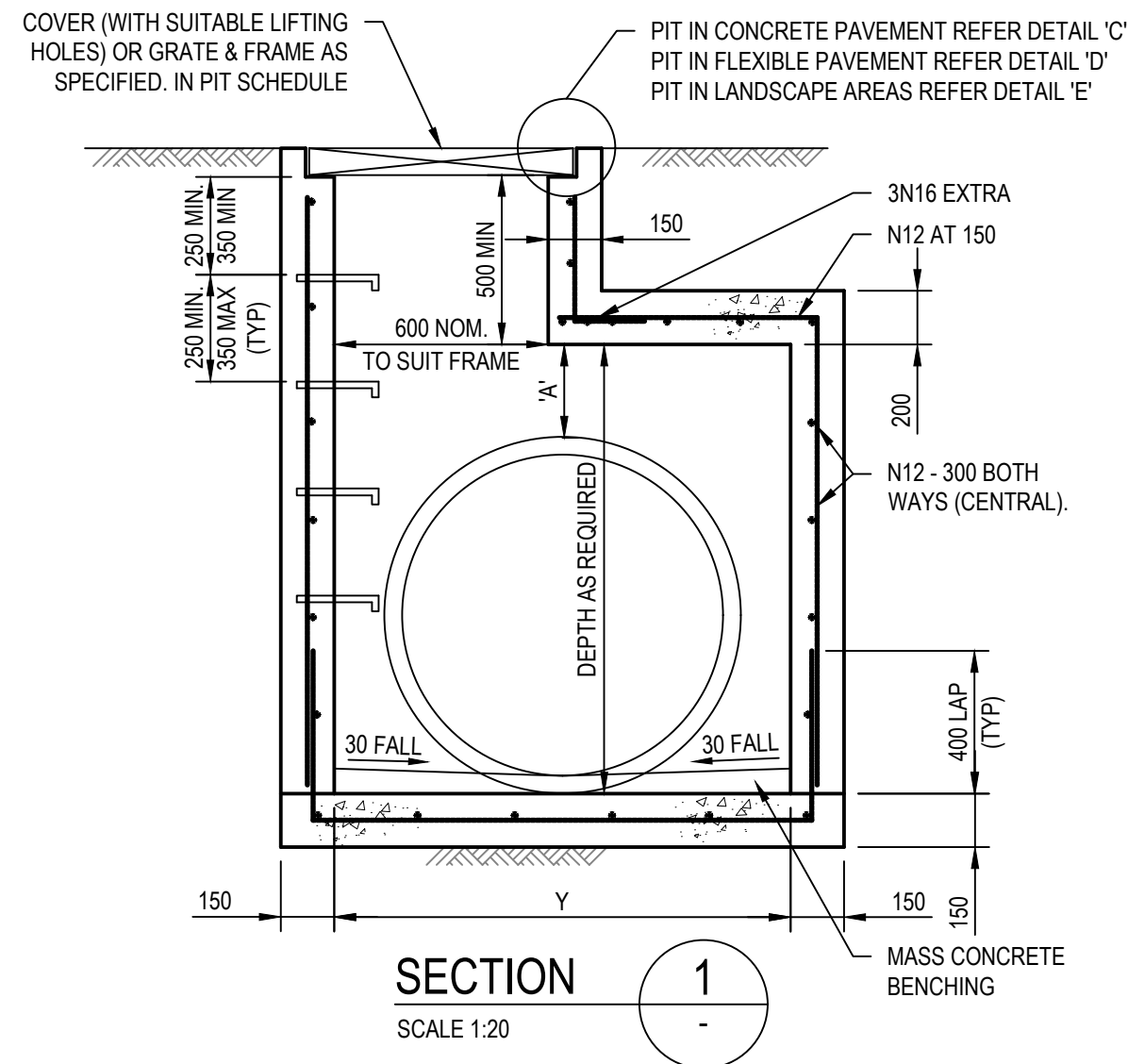
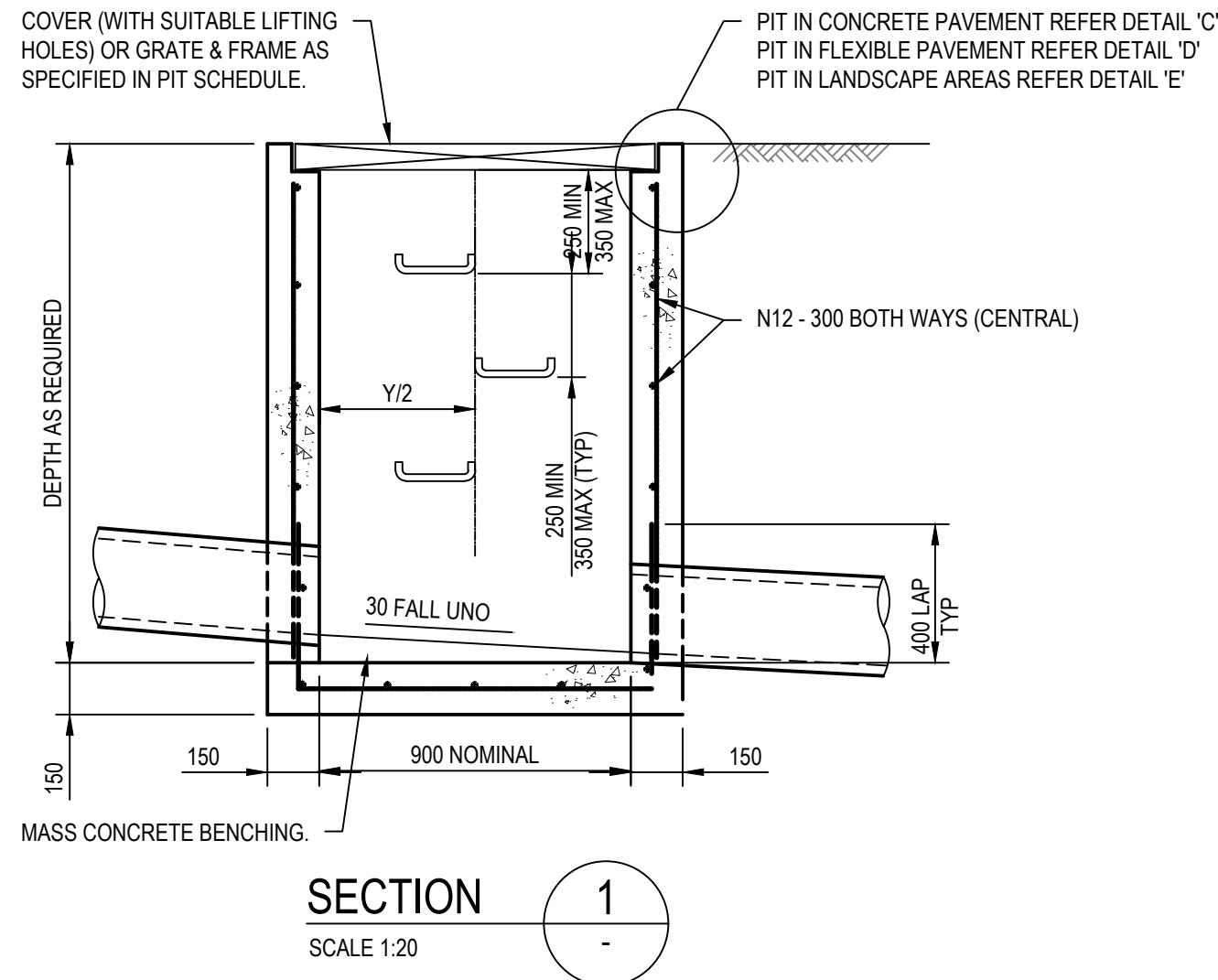


2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH
REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.

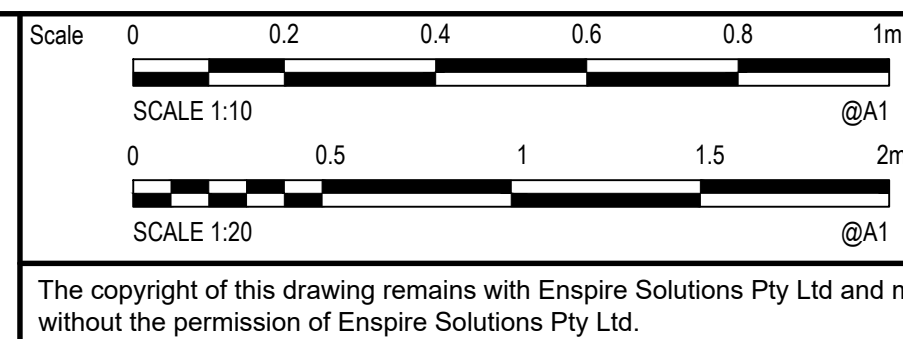


Project	NEPEAN BUSINESS PARK PENRITH
Title	STORMWATER DETAILS SHEET 1

Scale	AS SHOWN	Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
First Issue Date	04/12/2024	Project Number/Drawing Number	200044-09-DA-C18.01
Size	A1	Revision	2
Datum	AHD		



REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH



North



Project NEPEAN BUSINESS PARK PENRITH	Scale AS SHOWN First Issue Date 04/12/2024	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION
Title STORMWATER DETAILS SHEET 2	Size A1 Datum AHD	Project Number/Drawing Number 200044-09-DA-C18.02 Revision 2




REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL	MKH	
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL	MKH	
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL	MKH	

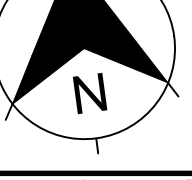
Client

 **NEPEAN
BUSINESS
PARK**

Scale


SCALE 1:2000 @A1

North



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Project
NEPEAN BUSINESS PARK
PENRITH

Title
CATCHMENT PLAN

Scale
1:2000
First Issue Date
04/12/2024
Size
A1
Datum
AHD

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

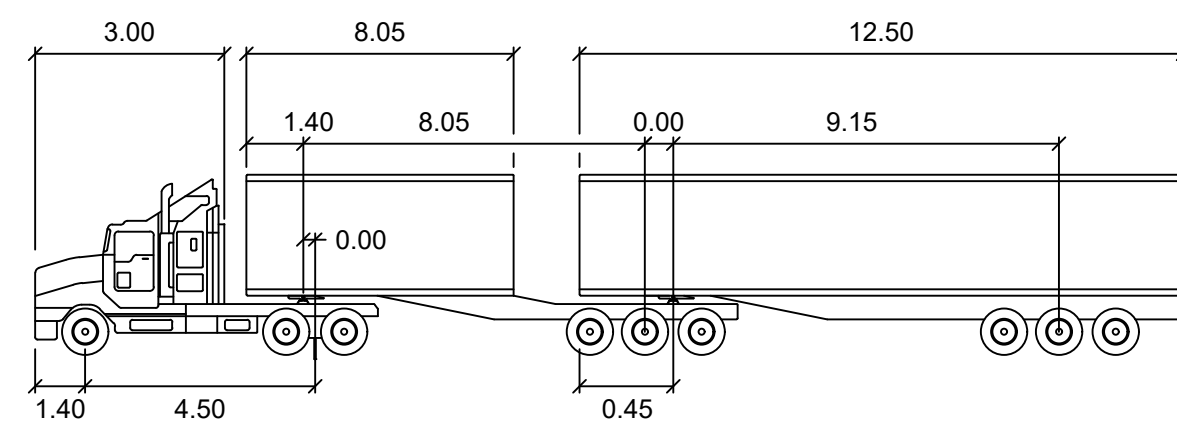
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200044-09-DA-C22.01

Revision
3

NEPEAN BUSINESS PARK
TO BE RETAINED AS
APPROVED UNDER DA 9876

ROAD 02

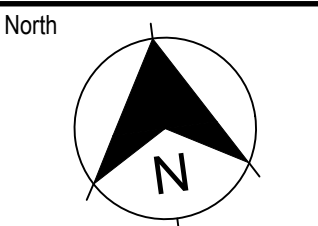
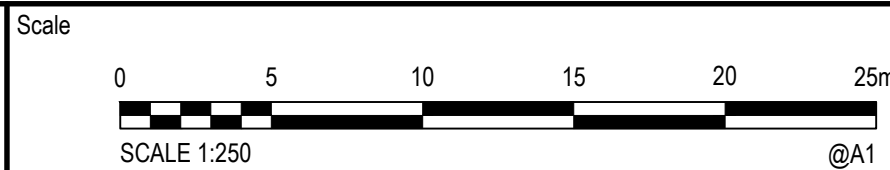
VEHICLE PROFILE:



B-DOUBLE 26M

	Tractor Width	: 2.50	Lock to Lock Time	: 6.0
	Trailer Width	: 2.50	Steering Angle	: 23.4
	Tractor Track	: 2.50	Articulating Angle	: 70.0
	Trailer Track	: 2.50		

REV	DATE	DESCRIPTION	DRN	DES	VERIF	APPD
3	26/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
2	24/02/2025	ISSUED FOR DEVELOPMENT APPLICATION	JSH	AL		MKH
1	04/12/2024	ISSUED FOR DEVELOPMENT APPLICATION	DK	AL		MKH



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Project
NEPEAN BUSINESS PARK
PENRITH
Title
TURNING PATH PLAN

Scale
1:250
First Issue Date
04/12/2024
Size
A1
Datum
AHD

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
Project Number/Drawing Number
200044-09-DA-C25.01
Revision
3

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