

ISO A1 594mm x 841mm



Western City &  
Aerotropolis Authority

BRADFIELD PRECINCT  
STAGE 1A - PACKAGE 01A  
STATE SIGNIFICANT DEVELOPMENT APPLICATION

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SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS  
NOT NORMALLY ASSOCIATED WITH THE TYPES  
OF WORK DETAILED ON THIS DRAWING?

☐ NO  
☐ YES

PROJECT MANAGEMENT INITIALS

VE	CV	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	GDA94	SURVEY	
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ISSUE/REVISION


1	15.11.21	PRELIMINARY CONCEPT DESIGN
I/R	DATE	DESCRIPTION

PROJECT NUMBER

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SHEET TITLE

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PRELIMINARY



GENERAL

- 1 THE INFORMATION CONTAINED IN THESE DRAWINGS PRODUCED BY AECOM IS SOLELY FOR THE USE OF WESTERN PARKLAND CITY AUTHORITY (WPCA) FOR THE PURPOSE FOR WHICH IT HAS BEEN PREPARED. AECOM AUSTRALIA PTY LTD UNDERTAKES NO DUTY TO OR ACCEPTS NO RESPONSIBILITY TO ANY THIRD PARTY WHO MAY RELY UPON THIS DOCUMENT.
- 2 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER ENGINEERING AND PUBLIC DOMAIN DRAWINGS, AND WITH SUCH OTHER WRITTEN INSTRUCTIONS, AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
- 3 ANY DISCREPANCIES BETWEEN THESE NOTES AND DRAWINGS, AND WESTERN SYDNEY STREETS DESIGN GUIDELINES AND DETAILS, THE DRAWINGS WILL TAKE PRECEDENCE.
- 4 ANY DISCREPANCIES OR OMISSIONS FROM THESE DOCUMENTS SHALL BE REFERRED TO THE SUPERINTENDENT FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
- 5 ALL WORKMANSHIP AND MATERIALS TO COMPLY WITH THE BUILDING CODE OF AUSTRALIA AS AMENDED AND THE APPROPRIATE AND CURRENT AUSTRALIAN STANDARDS OR LOCAL STATUTORY AUTHORITY GUIDELINES.
- 6 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. ALL CHAINAGES AND LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
- 7 ALL DIMENSIONS RELEVANT TO SETTING OUT OR OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION HAS COMMENCED.
- 8 DO NOT SCALE FROM DRAWINGS.
- 9 ORIGIN OF LEVELS - AHD
- COORDINATES TO MGA - MAP GRID AUSTRALIA ZONE 56 GDA94.
- 10 WHERE NOTED ON DRAWINGS THAT WORKS ARE TO BE CARRIED OUT BY OTHERS, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF THESE WORKS AND THIS WORK WILL NOT QUALIFY FOR DELAY CLAIMS.
- 11 WHERE A PROPRIETARY ITEM (OR EQUIVALENT) IS SPECIFIED, AND AN EQUIVALENT ITEM IS PROPOSED, THE CONTRACTOR SHALL PROVIDE MANUFACTURERS SPECIFICATIONS FOR BOTH PRODUCTS TO THE SUPERINTENDENT FOR APPROVAL, AND DEMONSTRATE THAT THE PRODUCT PERFORMANCE IS EQUIVALENT OR BETTER, PRIOR TO USE.
- 12 ALL PROPRIETARY PRODUCTS ARE TO BE INSTALLED FIXED AND TESTED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- 13 DURING CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE STRUCTURES AND EXCAVATIONS ARE MAINTAINED IN A SAFE AND STABLE CONDITION AT ALL TIME AND NO PART IS TO BE OVERSTRESSED, THE CONTRACTOR SHALL DEVELOP WORK METHOD STATEMENTS FOR ALL ERECTION OF STRUCTURAL STEEL/FORMWORK/ DEMOLITION/EXCAVATION/TILT PANELS ETC. AND PROVIDE TEMPORARY WORKS SUCH AS BRACING, PROPPING AND SHORING ETC. TO KEEP THE WORKS AND EXCAVATIONS STABLE AND FREE FROM WATER AT ALL TIMES. THE CONTRACTOR IS TO ENGAGE A STRUCTURAL ENGINEER TO DESIGN AND CERTIFY THE TEMPORARY WORKS.

SITEWORKS

- 1 THE CONTRACTOR TO MAKE SMOOTH CONNECTION TO ANY EXISTING WORKS.
- 2 ON COMPLETION OF THE WORKS, THE CONTRACTOR MUST RESTORE OR REINSTATE ANY AREAS, STRUCTURES, PAVEMENTS OR UTILITY SERVICES DAMAGED OR DIRTIED DURING THE CONSTRUCTION, TO THE SATISFACTION OF THE PRINCIPAL OR THE ASSET OWNER.
- 3 ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- 4 ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED IN ACCORDANCE WITH KMC STANDARD DRAWINGS
- 5 PROVIDE ISOLATION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE AND UNIT PAVEMENTS.
- 6 ASPHALTIC CONCRETE SHALL CONFORM TO TNSW QA SPECIFICATION R116
- 7 ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL, TO COMPLY WITH TNSW QA SPECIFICATION 3051 - GRANULAR BASE AND SUBBASE MATERIALS FOR SURFACED ROAD PAVEMENTS, COMPACTED TO 98% MODIFIED DENSITY IN ACCORDANCE WITH AS1289 5.2.1. FREQUENCY OF COMPACTION TESTING TO BE NO LESS THAN 1 TEST PER 50m2 OF BASECOURSE MATERIAL PLACED.
- 8 ALL SUBBASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH TNSW QA SPECIFICATION 3051 - GRANULAR BASE AND SUBBASE MATERIALS FOR SURFACED ROAD PAVEMENTS, COMPACTED TO 95% MODIFIED DENSITY IN ACCORDANCE WITH AS1289 5.2.1. FREQUENCY OF COMPACTION TESTING TO BE NO LESS THAN 1 TEST PER 50m2 OF BASECOURSE MATERIAL PLACED.
- 9 THE USE OF RECYCLED MATERIALS IS ENCOURAGED. IF THE CONTRACTOR INTENDS TO USE RECYCLED MATERIALS, A RECYCLED MATERIAL COMPLYING WITH TNSW QA SPECIFICATION 3051 - GRANULAR BASE AND SUBBASE MATERIALS FOR SURFACED ROAD PAVEMENTS WILL BE CONSIDERED, SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF THE PRINCIPAL'S REPRESENTITIVE.
- 10 THE CONTRACTOR IS TO CONTINUE TO PROVIDE CERTIFICATION FOR ALL RECYCLED MATERIALS DURING THE COUSE OF CONSTRUCTION, AND WHERE MATERIAL THAT DOES NOT COMPLY, THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT WITH A SUITABLY COMPLIANT MATERIAL AT THEIR OWN COST.
- 11 SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT, THE INTENT SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY NOTED.

BULK EARTHWORKS

- 1 THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SAFE EXCAVATION, CONTAMINATION MANAGEMENT AND DISPOSAL OF ALL CONTAMINATED MATERIALS FOUND WITHIN ANY EXCAVATION IN UNREMIEDIATED LAND.
- 2 MATERIALS USED IN FILL MUST BE CLEAN IMPORTED GRANULAR VENM.
- 3 ALL EXCAVATED MATERIAL NOT CLASSED AS VENM AND NOT ABLE TO BE REUSED, MUST BE STOCKPILED AS DIRECTED BY PRINCIPAL.
- 4 COMPACTION, TESTING, FILLING, STANDARD DRY DENSITIES AND MOISTURE CONTENTS TO BE IN ACCORDANCE WITH THE SPECIFICATION.
- 5 ALL EARTHWORKS AREAS SHALL BE ROLLED EACH EVENING TO RESTRICT POTENTIAL WATER INGRESS.

SAFETY

- 1 THE CONTRACTOR IS RESPONSIBE FOR SAFETY ONSITE.
- 2 THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EXCAVATION WORKS IN A STABLE CONDITION, AND ENSURING NO PART SHALL BE OVERSTRESSED DURING CONSTRUCTION ACTIVITIES. PROVISION OF TEMPORARY BRACING, SHORING AND BATTERING IS BY THE CONTRACTOR AS REQUIRED TO PROVIDE A SAFE WORKING ENVIRONMENT.
- 3 THE CONTRACTOR MUST MAKE PROVISION FOR THE SAFETY OF NORMAL VEHICULAR TRAFFIC AND PEDESTRIANS, AND OTHERS INCLUDING UNAUTHORISED INTRUDERS.
- 4 ALL PITS, MANHOLES, AND OTHER CONFINED SPACES MUST BE FITTED WITH A CONFINED SPACE WARNING SIGN TO THE APPROVAL OF THE PRINCIPAL.
- 5 ALL CONDITIONS OF THE ENVIRONMENTAL ASSESSMENT MUST BE MET.

EROSION AND SEDIMENT CONTROLS - GENERAL INSTRUCTIONS

- 1 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE AND TAKE ALL STEPS NECESSARY TO PROTECT THE ENVIRONMENT DURING THE COURSE OF THEIR CONTRACT AND IN PARTICULAR IMPLEMENT THE NECESSARY MEASURES FOR THE CONTROL OF EROSION AND SEDIMENTATION TO THE SATISFACTION OF ALL ADMINISTERING BODIES INCLUDING NSW OFFICE OF WATER, SYDNEY WATER, TNSW AND NSW ENVIRONMENT AND HERITAGE.
  - 2 THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS SHALL ONLY BE USED AS A GUIDE BY THE CONTRACTOR AND SHALL REPRESENT THE MINIMUM REQUIREMENT ONLY.
  - 3 EROSION AND SEDIMENTATION MEASURES ARE TO BE PROVIDED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS, ADJUSTED TO SUIT STAGING AND MAINTAINED FOR THE LIFE OF THE CONTRACT.
  - 4 ALL MEASURES ARE TO BE DESIGNED AND IMPLEMENTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE 'BLUE BOOK' - SOILS AND CONSTRUCTION, AND CONFIRMED AS A PART OF THEIR CONSTRUCTION MANAGEMENT OR QUALITY PLAN FOR THE SITE.
  - 5 ALL MEASURES INCLUDING DIVERSION BANKS, CATCH AND DIVERSION DRAINS AND SILT FENCES SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF CONTRACT WORKS
  - 6 DURING WINDY WEATHER, LARGE UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRAYING WITH CLEAN WATER TO CONTROL DUST
  - 7 ALL STOCKPILES MUST NOT BE LOCATED IN AREAS SUBJECT TO LIKELY CONCENTRATIONS OF OVERLAND FLOWS, AND HAVE MEASURES APPLIED, SUCH AS SILT FENCING, TO PREVENT EROSION OF THE STOCKPILE.
  - 8 CLEAN WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO THE DRAINAGE SYSTEM. ANY WATER ENTERING THE DRAINAGE SYSTEM MUST BE SEDIMENT FREE.
- OTHER ENVIRONMENTAL NOTES
- 9 ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHT WEIGHT MATERIALS AND LITTER.

STORMWATER DRAINAGE

- 1 PIPES 375mm DIA AND LARGER TO BE REINFORCED CONCRETE CLASS'4', 10/20 COVER, APPROVED SPIGGOT AND SOCKET WITH RUBBER RING JOINTS U.N.O. ALL PIPEWORK IS TO BE LAID WITH THE SOCKET FACING UPSTREAM. ALL WORKS ARE TO COMMENCE AT THE OUTLET END OF EACH LINE.
- 2 PIPES TO BE INSTALLED TO TYPE HS3 SUPPORT UNDER ROADS, PATHS AND DRIVEWAYS, AND TO TYPE HS2 ELSEWHERE, IN ACCORDANCE WITH AS3725. BACKFILLING AND MATERIALS IS TO BE IN ACCORDANCE WITH THE BACKFILLING SPECIFICATION.
- 3 PITS TO BE CONSTRUCTED IN ACCORDANCE WITH LIVERPOOL CITY COUNCIL STANDARD DETAILS. PRECAST PITS WILL NOT BE ACCEPTED UNLESS THROUGH EXPRESSED PERMISSION OF LIVERPOOL CITY COUNCIL.
- 4 CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- 5 GRATES AND COVERS SHALL CONFORM TO RELEVANT LIVERPOOL CITY COUNCIL STANDARD PIT DETAILS.
- 6 AT ALL TIMES DURING CONSTRUCTION, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO PREVENT PERSONNEL FROM FALLING INTO PITS AND OPEN TRENCHES.
- 7 ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN, ARE TO BE INSPECTED AND CLEANED, AND ANY PART OF THAT SYSTEM IDENTIFIED AS WARRANTING REPAIR, SHALL BE REPORTED TO THE PRINCIPAL FOR FURTHER DIRECTION.
- 8 CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT PIPES FROM DAMAGE DUE TO HEAVY CONSTRUCTION LOADING. CONTRACTOR TO UNDERTAKE PRE AND POST CONSTRUCTION CCTV INSPECTIONS FOR ALL PIPE LINES IMPACTED BY THE WORKS, TO BE PROVIDED TO LIVERPOOL CITY COUNCIL FOR ACCEPTANCE PRIOR TO HAND-OVER.
- 9 THE CONTRACTOR IS TO MANAGE AND STAGE CONSTRUCTION WORKS, INCLUDING PROVIDING TEMPORARY DIVERSION WORKS IF NECESSARY, TO ENSURE ANY EXISTING DRAINAGE SYSTEM IS ABLE TO PERFORM TO ITS CURRENT STANDARD.
- 10 THE CONTRACTOR SHALL PROTECT THE WORKS IN PROGRESS. ANY DAMAGE TO THE WORKS IN PROGRESS, INCLUDING FROM STORMWATER FLOWS OR FLOODING, IS AT THE CONTRACTOR'S RISK.

UTILITY SERVICES

- 1 THESE DRAWINGS SHALL TO BE READ IN CONJUNCTION WITH ALL PUBLIC OR PRIVATE SERVICE PROVIDER DRAWINGS, INCLUDING BUT NOT LIMITED TO:
  - JEMENA DRAWINGS
  - ENDEAVOUR ENERGY DRAWINGS
  - NBN DRAWINGS
  - SYDNEY WATER DRAWINGS
  - TELSTRA DRAWINGS
- 2 EXISTING UTILITIES SHOWN ON DRAWINGS ARE INDICATIVE ONLY AND MAY NOT INCLUDE ALL SERVICES PRESENT. AECOM TAKES NO RESPONSIBILITY FOR THE UTILITY INFORMATION AS SHOWN ON THESE DRAWINGS.
- 3 IT IS THE CONTRACTORS RESPONSIBILITY TO LIAISE WITH EACH UTILITY SERVICE PROVIDER ON SITE, TO LOCATE AND IDENTIFY THE SIZE, POSITION, LINE AND LEVEL OF ALL UTILITY SERVICES IN BOTH PUBLIC AND PRIVATE LAND, PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
- 4 THE CONTRACTOR MUST TAKE EVERY PRECAUTION TO PROTECT EXISTING AND NEW UTILITY SERVICES THROUGH THE COURSE OF THE CONTRACT.
- 5 THE EXECUTION OF ALL WORKS INVOLVING UTILITY SERVICES, EITHER NEW OR EXISTING, IS THE RESPONSIBILITY OF THE CONTRACTOR AND FORM PART OF THE CONTRACT PRICE, UNLESS SPECIFICALLY NOTED OTHERWISE.
- 6 ALL WORKS INVOLVING UTILITY SERVICES TO BE UNDERTAKEN TO THE SATISFACTION OF THE UTILITY SERVICE PROVIDER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ENGAGING WITH THE UTILITY SERVICE PROVIDER, THE EXECUTION OF THE WORK TO THEIR REQUIREMENTS AND PROCUREMENT OF APPROVALS FOR WORKS UNDERTAKEN.
- 6 ALL WORKS INVOLVING UTILITY SERVICES MUST ONLY BE UNDERTAKEN USING PLANS APPROVED BY THE UTILITY SERVICE PROVIDER.
- 8 ALL SERVICE PIT COVERS AND MARKERS ARE TO BE PLACED IN ACCORDANCE WITH THE LOCATIONS AS SHOWN ON THE PUBLIC DOMAIN DRAWINGS, AND IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATION.
- 9 ALL SERVICE PIT COVERS TO BE PLACED AT FINISHED SURFACE LEVELS TO MATCH THE PROPOSED LONGITUDINAL AND CROSS FALL GRADES OF THE FOOTPATH OR ROADWAY IT IS CONTAINED WITHIN.
- 10 NO PIPE OR TRENCH SHALL BE LOCATED WITHIN THE ZONE OF INFLUENCE (1V:1H) OF A FOOTING.
- 11 MINIMUM CLEARANCES BETWEEN SERVICES TO BE PROVIDED UNLESS DIRECTED BY THE PRINCIPAL.
- 12 "WORKS AS CONSTRUCTED" SURVEY ON ALL UTILITY WORK SHALL BE RECORDED PRIOR TO ANY BACKFILLING.
- 13 MAJOR OPTUS CABLES - OPTUS REPRESENTATIVE SHALL BE ON SITE WHEN EXCAVATION IS WITHIN 3m OF OPTUS CABLES.
- 14 ENDEAVOUR ENERGY TRANSMISSION CABLES - ENDEAVOUR ENERGY SUPERVISOR SHALL BE ON SITE WHEN EXCAVATION IS WITHIN 2m OF TRANSMISSION CABLES.
- 15 UTILITY INSTALLATION THROUGH TREE VAULTS TO BE COORDINATED WITH AUTHORITIES

TELSTRA DUTY OF CARE

TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR HOLD OUT THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY. THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS, TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLING TO IDENTIFY IT'S LOCATION. TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO IT'S PROPERTY AND LOSSES CAUSED TO TELSTRA AND IT'S CUSTOMERS.

KERB NOTES

- 1 ALL CONCRETE FOR KERBS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.N.O. IN THE DRAWINGS.
- 2 ALL KERBS, GUTTERS AND CROSSINGS TO BE CONSTRUCTED ON 150mm (DGB20), COMPACTED TO MINIMUM 98% STANDARD MDD (AS1289 5.2.1)
- 3 EXPANSION JOINTS (E.J.) TO BE FORMED FROM 15mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT PITS, ON TANGENT POINTS OF CURVES, AND ELSEWHERE AT MAXIMUM 15m, EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
- 4 WEAKENED PLANE JOINTS TO BE 5mm WIDE AND LOCATED AT 3m CENTRES, EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
- 5 BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISH.
- 6 IN REPLACEMENT OF KERB AND GUTTER, THE EXISTING ROAD PAVEMENT IS TO BE SAWCUT AND REINSTATED IN ACCORDANCE WITH COUNCIL CONSTRUCTION STANDARD.
- 7 PRAM RAMP SHALL BE IN ACCORDANCE WITH STANDARD DETAILS AS SHOWN IN THE DRAWINGS AND ALL LOCATIONS ARE TO BE VERIFIED ON SITE WITH THE PRINCIPAL PRIOR TO COMMENCEMENT OF CONSTRUCTION.

SURVEY NOTES

THE SURVEY INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AECOM 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 SUPERINTENDENT.  
THE FOLLOWING SURVEY DATA HAS BEEN ADOPTED FOR THE PURPOSE OF DESIGN:  
-PR146456-DET\_001a.12da, BY RPS (RECEIVED 12 NOVEMBER 2020)

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SCALE BAR

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☐ NO  
☐ YES

PROJECT MANAGEMENT INITIALS

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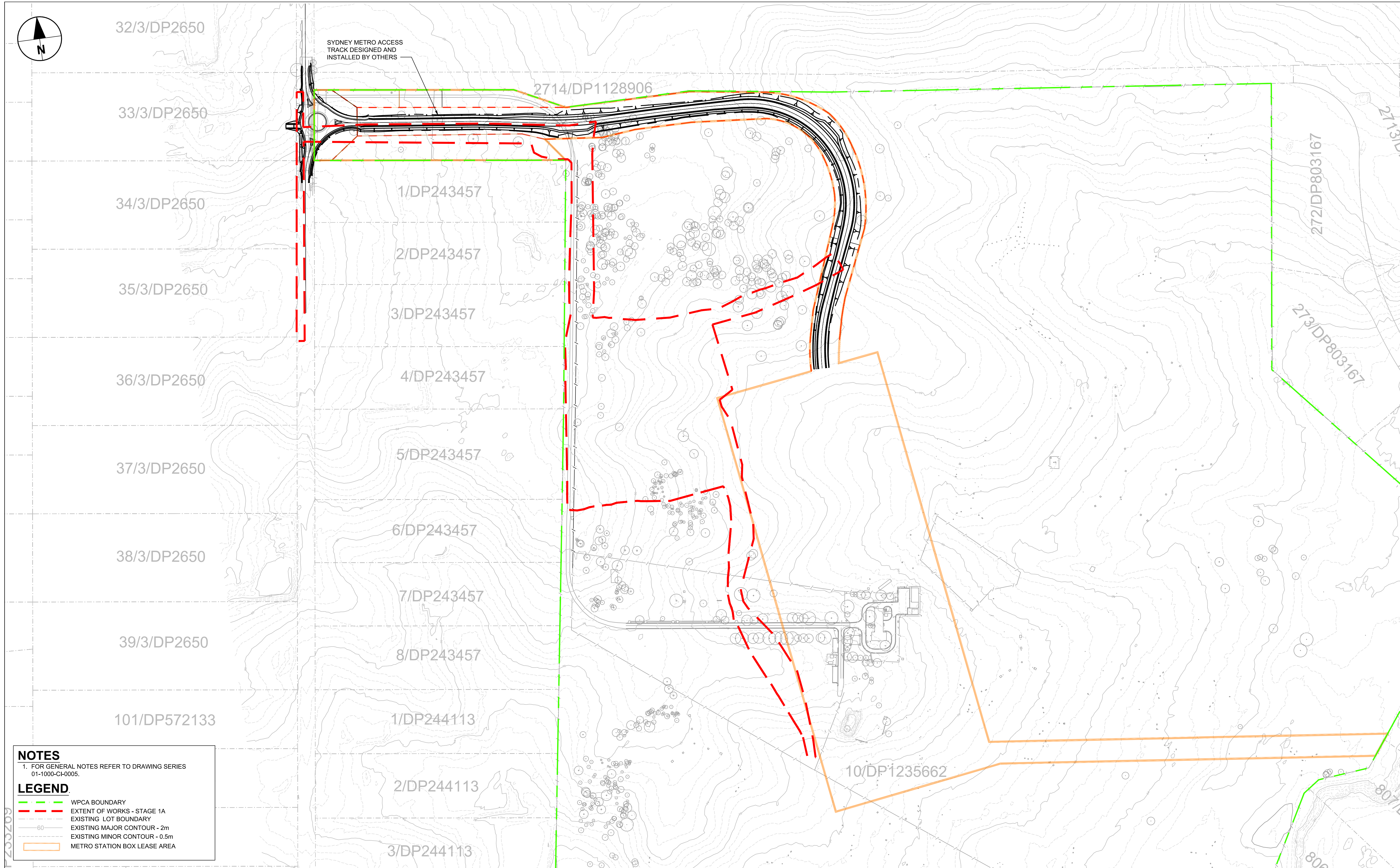
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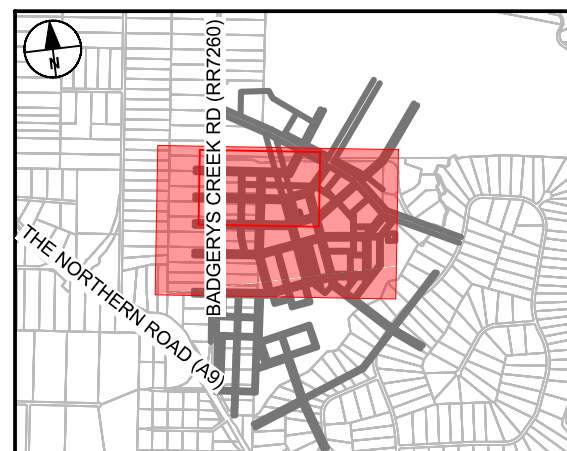
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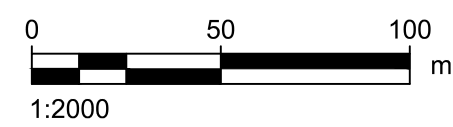


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KEY PLAN



SCALE BAR



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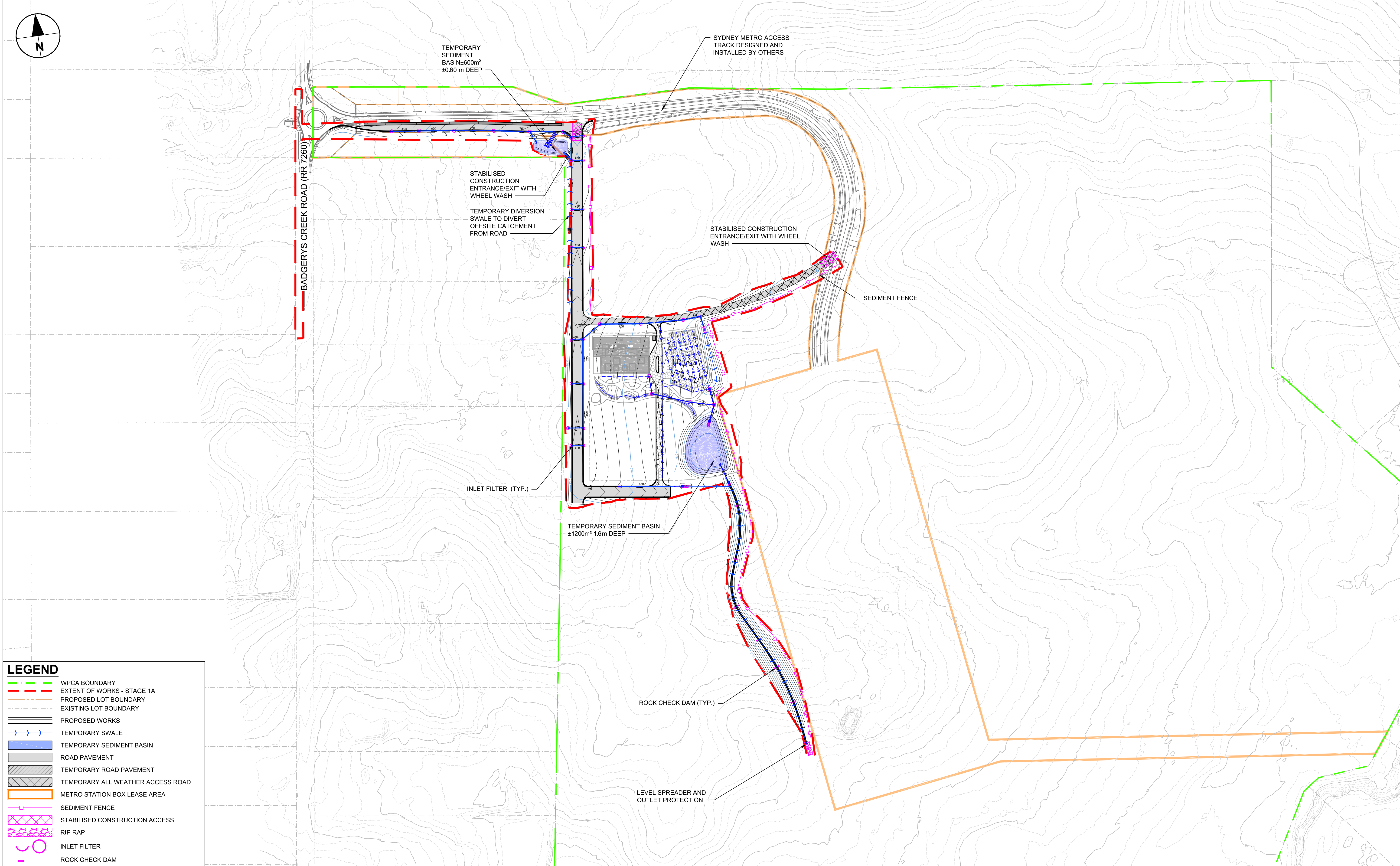
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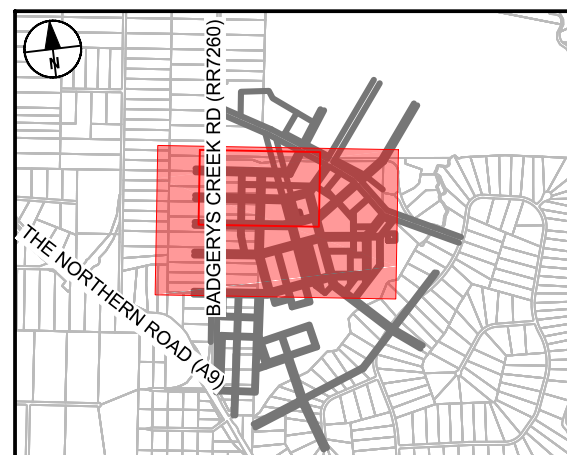
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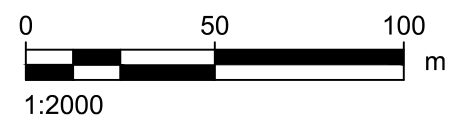


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KEY PLAN



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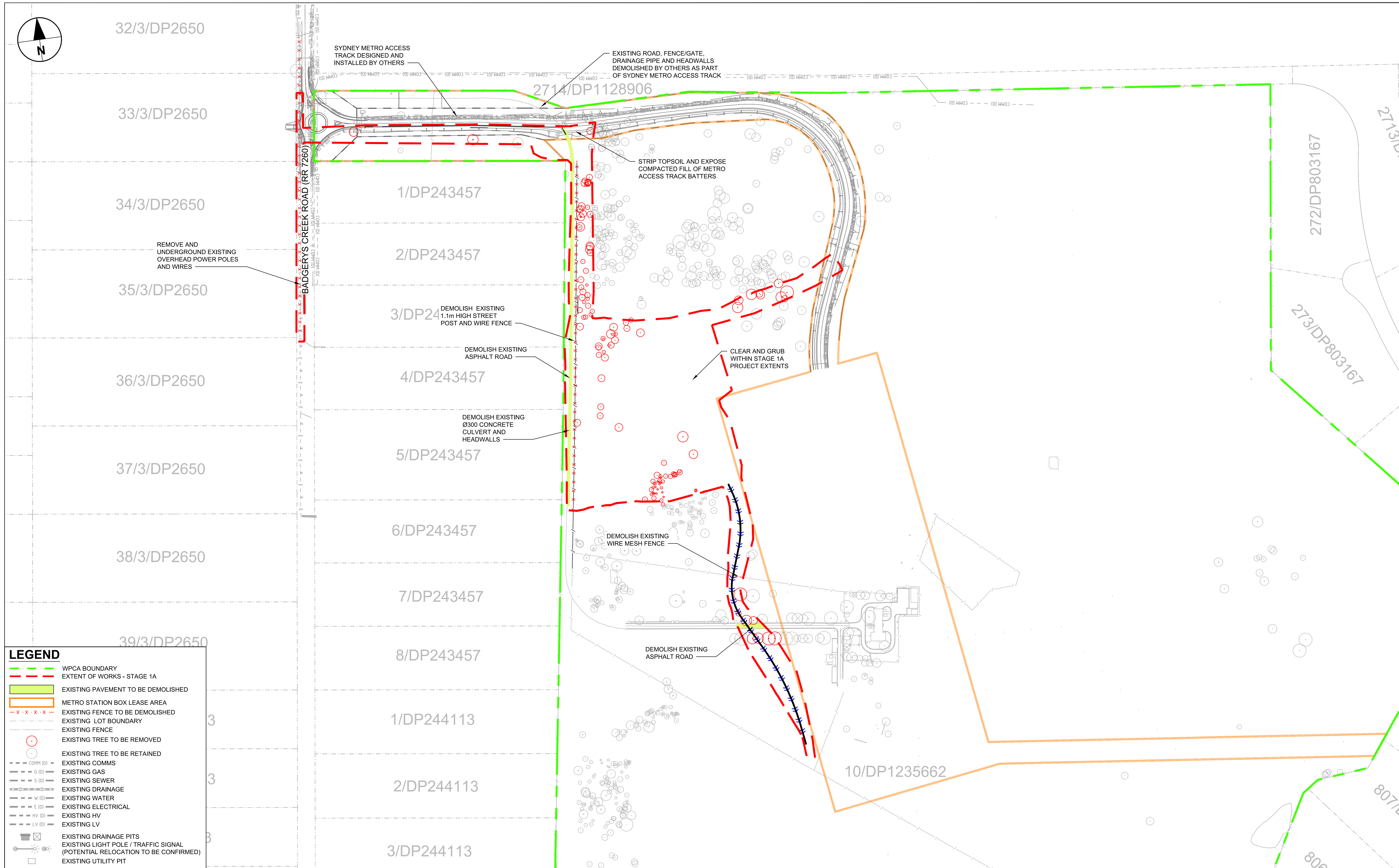
EROSION AND SEDIMENT  
CONTROL PLAN

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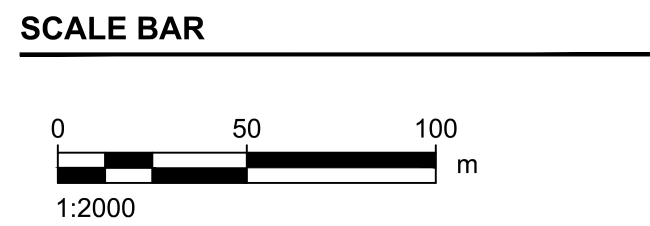
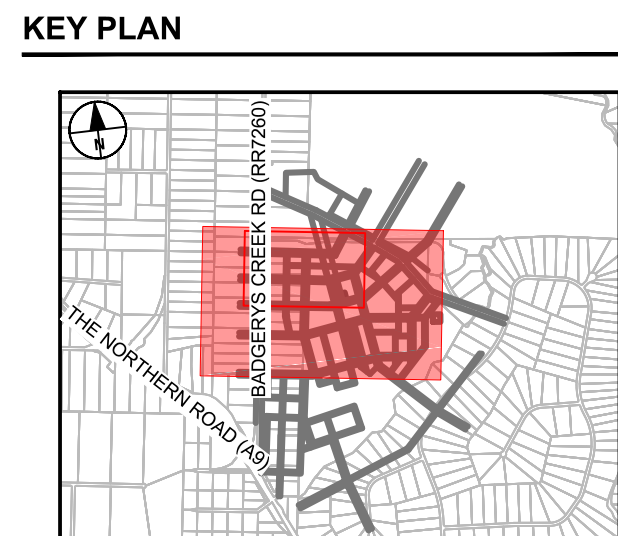
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PROJECT MANAGEMENT INITIALS			
VE		CV	GAR
DESIGNER	CHECKED		APPROVED
PROJECT DATA			
DATUM	GDA94	SURVEY	

ISSUE/REVISION		
1	15.11.21	PRELIMINARY CONCEPT DESIGN
I/R	DATE	DESCRIPTION

**PROJECT NUMBER**

60646285

**SHEET TITLE**

DEMOLITION PLAN

**SHEET NUMBER**

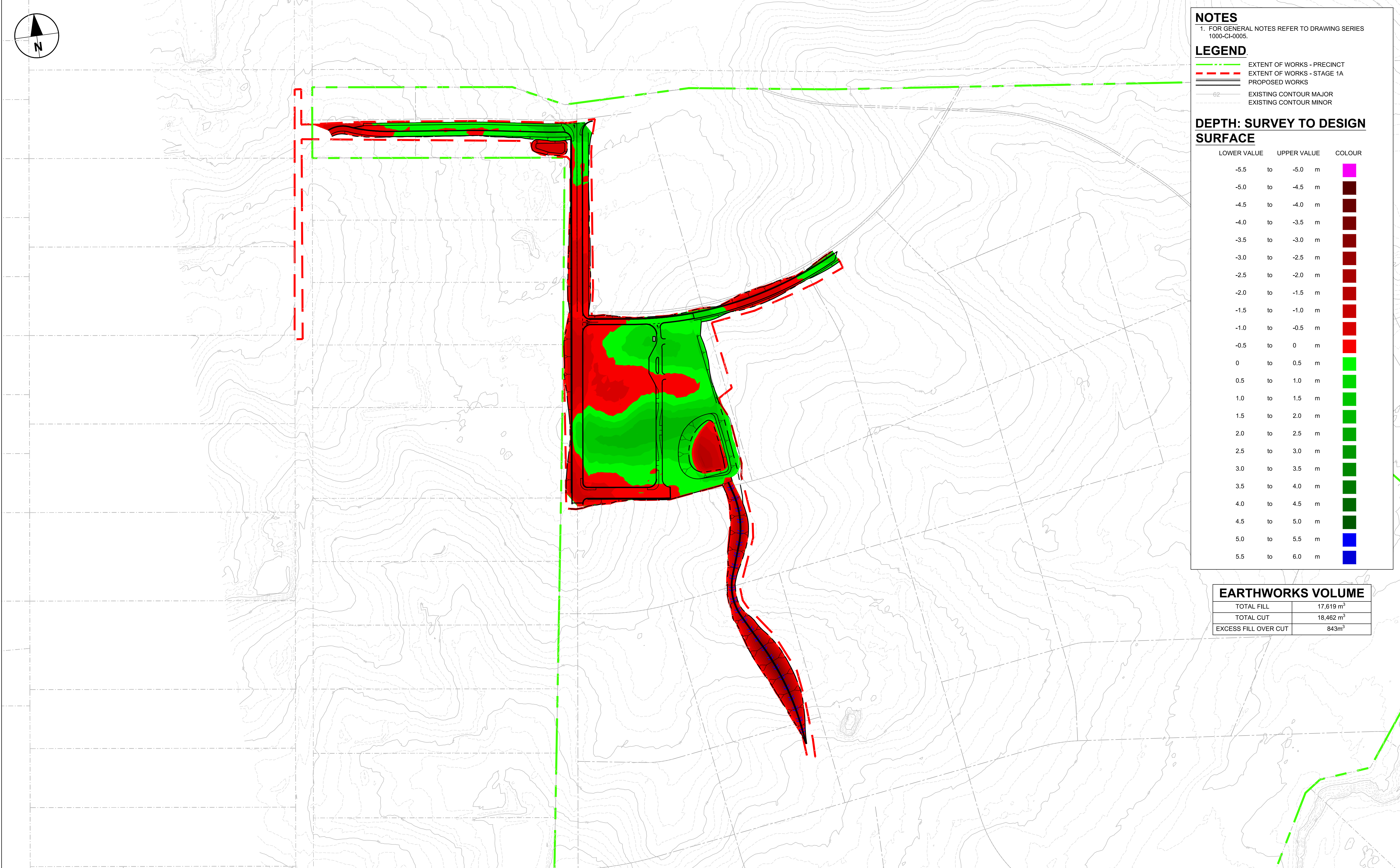
60646285-SHT-01-1000-CI-0051

PRELIMINARY



ISO A1 594mm x 841mm

Last saved by: JEEFLANG.YAN(2021-11-15) Last Plotted: 2021-11-15  
Filename: C:\P\WORKING\AECOM\_DS10\_AU\JEEFLANG.YAN@AECOM.COM\031272460646285-SHT-01-1000-CI-0061.DWG



**NOTES**  
1. FOR GENERAL NOTES REFER TO DRAWING SERIES 1000-CI-0005.

**LEGEND**  
--- EXTENT OF WORKS - PRECINCT  
--- EXTENT OF WORKS - STAGE 1A  
--- PROPOSED WORKS  
--- EXISTING CONTOUR MAJOR  
--- EXISTING CONTOUR MINOR

**DEPTH: SURVEY TO DESIGN SURFACE**

LOWER VALUE		UPPER VALUE	COLOUR
-5.5	to	-5.0 m	
-5.0	to	-4.5 m	
-4.5	to	-4.0 m	
-4.0	to	-3.5 m	
-3.5	to	-3.0 m	
-3.0	to	-2.5 m	
-2.5	to	-2.0 m	
-2.0	to	-1.5 m	
-1.5	to	-1.0 m	
-1.0	to	-0.5 m	
-0.5	to	0 m	
0	to	0.5 m	
0.5	to	1.0 m	
1.0	to	1.5 m	
1.5	to	2.0 m	
2.0	to	2.5 m	
2.5	to	3.0 m	
3.0	to	3.5 m	
3.5	to	4.0 m	
4.0	to	4.5 m	
4.5	to	5.0 m	
5.0	to	5.5 m	
5.5	to	6.0 m	

**EARTHWORKS VOLUME**

TOTAL FILL	17,619 m <sup>3</sup>
TOTAL CUT	18,462 m <sup>3</sup>
EXCESS FILL OVER CUT	843m <sup>3</sup>

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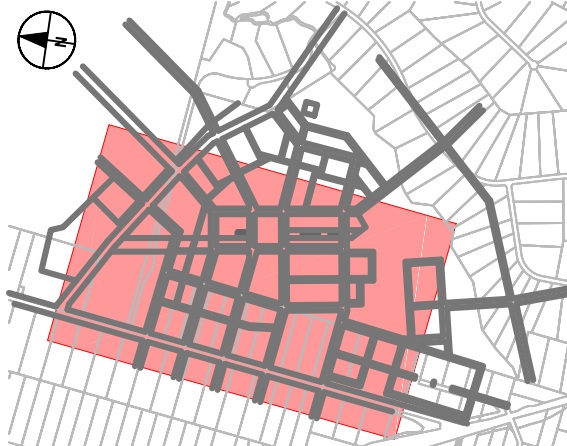
CONSULTANT  
AECOM Australia Pty Ltd  
A.B.N 20 093 846 925  
www.aecom.com

PROJECT  
BRADFIELD  
PRECINCT  
BRINGELLY

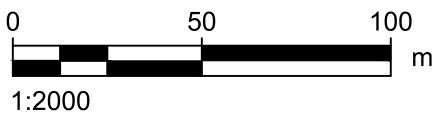
CLIENT



KEY PLAN



SCALE BAR



SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO  
☐ YES

PROJECT MANAGEMENT INITIALS

VE	CV	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	GDA94	SURVEY	
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ISSUE/REVISION

1/R	DATE	DESCRIPTION
1	15.11.21	PRELIMINARY CONCEPT DESIGN

PROJECT NUMBER

60646285

SHEET TITLE

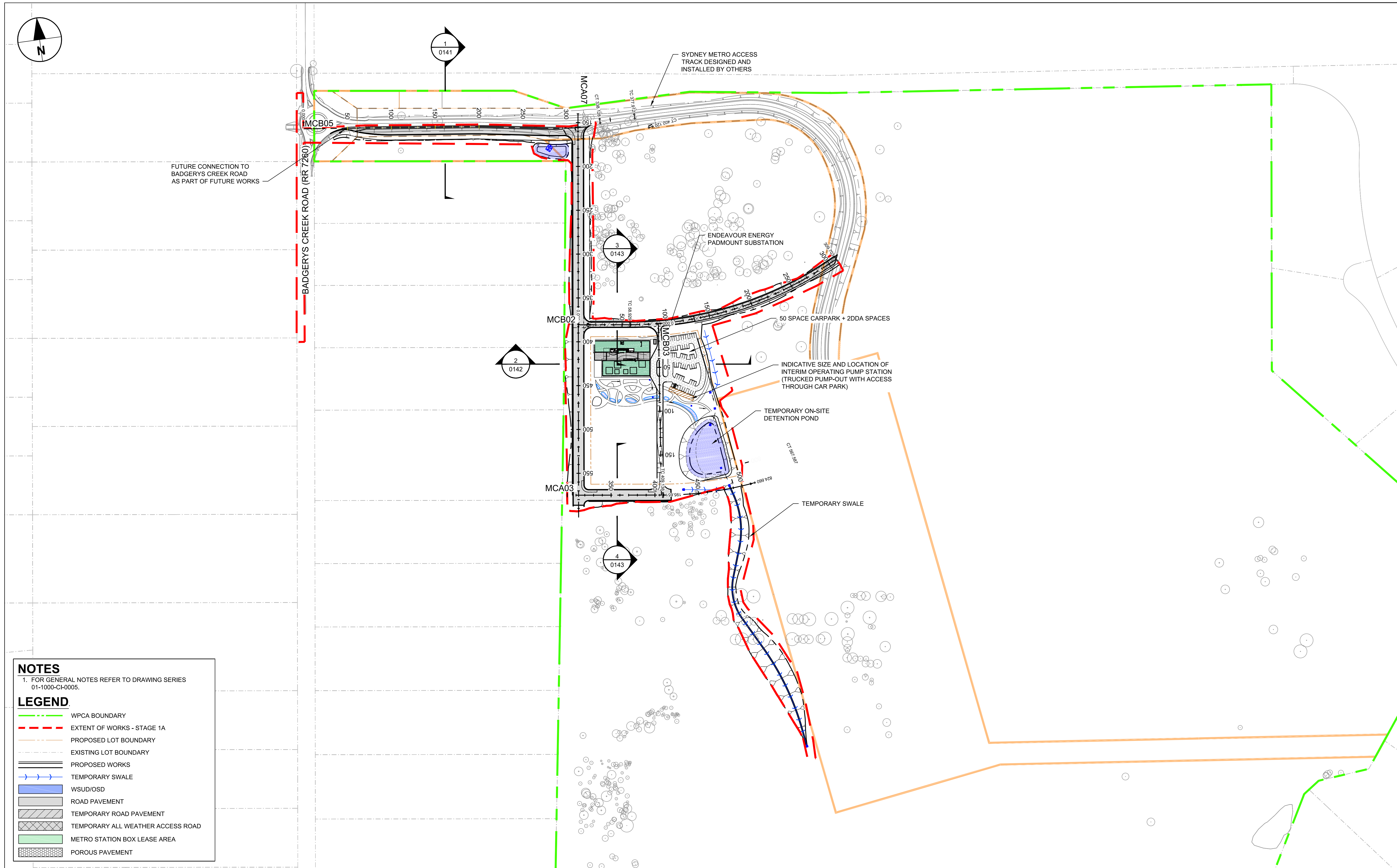
BULK EARTHWORKS PLAN

SHEET NUMBER

60646285-SHT-01-1000-CI-0061

PRELIMINARY



**NOTES**

1. FOR GENERAL NOTES REFER TO DRAWING SERIES 01-1000-CI-0005.

**LEGEND**

- WPCA BOUNDARY
- EXTENT OF WORKS - STAGE 1A
- PROPOSED LOT BOUNDARY
- EXISTING LOT BOUNDARY
- PROPOSED WORKS
- TEMPORARY SWALE
- WSUD/OSD
- ROAD PAVEMENT
- TEMPORARY ROAD PAVEMENT
- TEMPORARY ALL WEATHER ACCESS ROAD
- METRO STATION BOX LEASE AREA
- POROUS PAVEMENT

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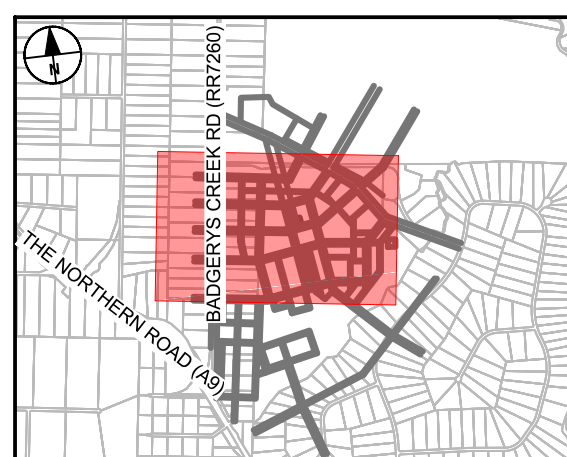
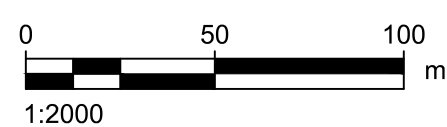
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**PROJECT**

BRADFIELD  
PRECINCT  
BRINGELLY

**CLIENT**

Western City &  
Aerotropolis Authority

**KEY PLAN****SCALE BAR****SAFETY IN DESIGN INFORMATION**

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

- ☐ NO  
☐ YES

**PROJECT MANAGEMENT INITIALS**

VE	CV	GAR
DESIGNER	CHECKED	APPROVED

**PROJECT DATA**

DATUM	GDA94	SURVEY	
-------	-------	--------	--

**ISSUE/REVISION**

I/R	DATE	DESCRIPTION
1	15.11.21	PRELIMINARY CONCEPT DESIGN

**PROJECT NUMBER**

60646285

**SHEET TITLE**

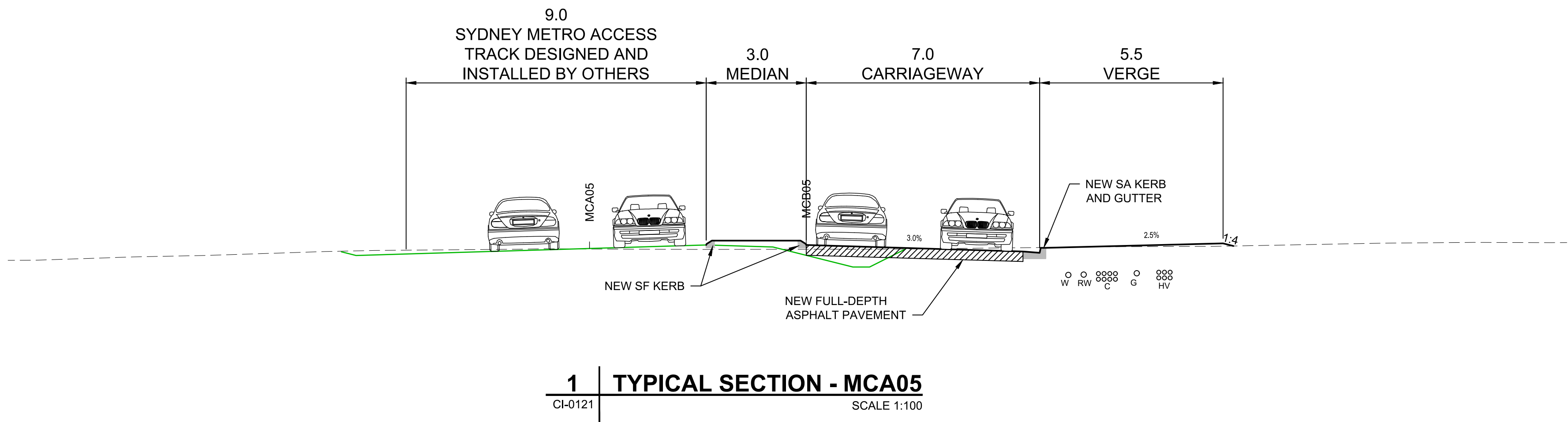
GENERAL ARRANGEMENT PLAN

**SHEET NUMBER**

60646285-SHT-01-1000-CI-0121

PRELIMINARY





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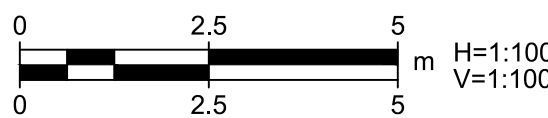
BRADFIELD  
PRECINCT  
BRINGELLY

CLIENT



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Aerotropolis Authority

SCALE BAR



SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO  
☐ YES

PROJECT MANAGEMENT INITIALS

VE	CV	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	GDA94	SURVEY	
-------	-------	--------	--

ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	15.11.21	PRELIMINARY CONCEPT DESIGN

PROJECT NUMBER

60646285

SHEET TITLE

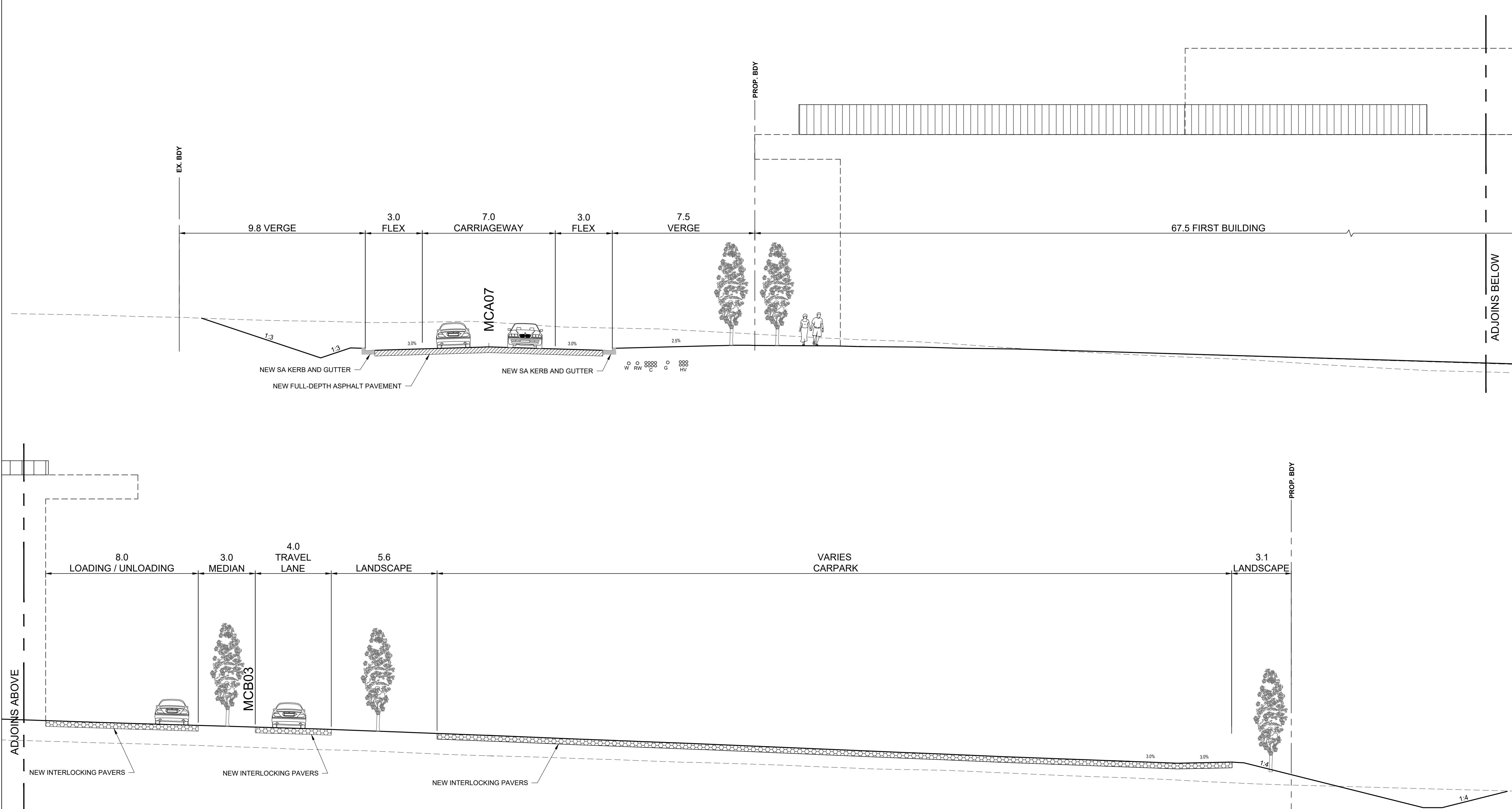
TYPICAL SITE SECTIONS  
SHEET 01

SHEET NUMBER

60646285-SHT-01-1000-CI-0141

PRELIMINARY





2 | TYPICAL SECTION - MCA07  
CI-0121 | SCALE 1:100

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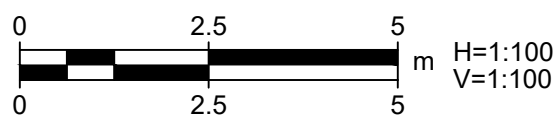
BRADFIELD  
PRECINCT  
BRINGELLY

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Western City &  
Aerotropolis Authority

SCALE BAR



SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS  
NOT NORMALLY ASSOCIATED WITH THE TYPES  
OF WORK DETAILED ON THIS DRAWING?

☐ NO  
☐ YES

PROJECT MANAGEMENT INITIALS

VE	CV	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	GDA94	SURVEY	
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ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	15.11.21	PRELIMINARY CONCEPT DESIGN

PROJECT NUMBER

60646285

SHEET TITLE

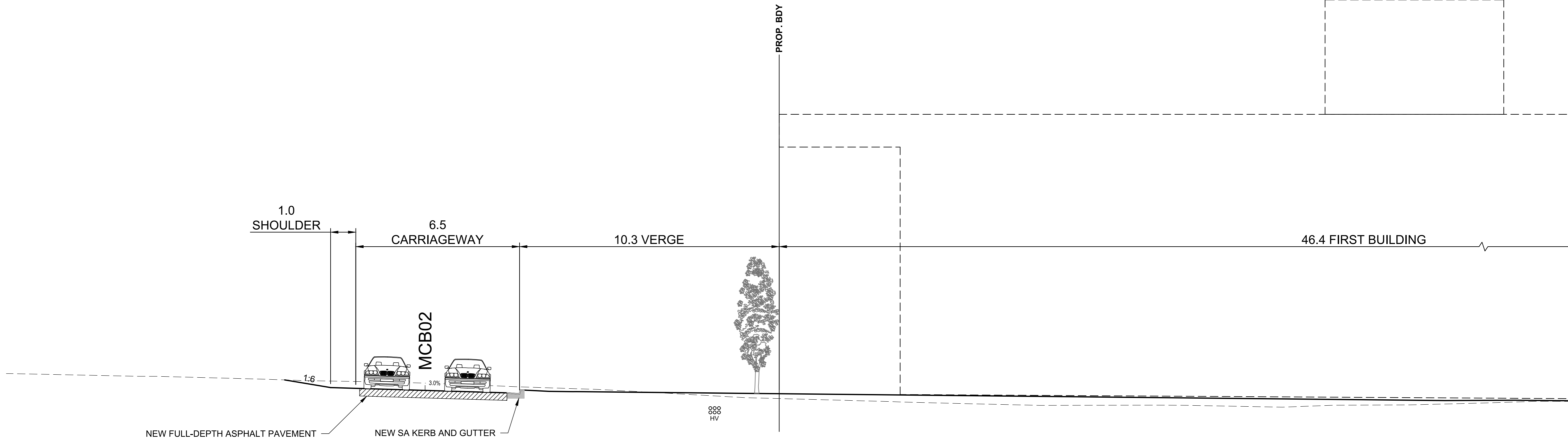
TYPICAL SITE SECTIONS  
SHEET 02

SHEET NUMBER

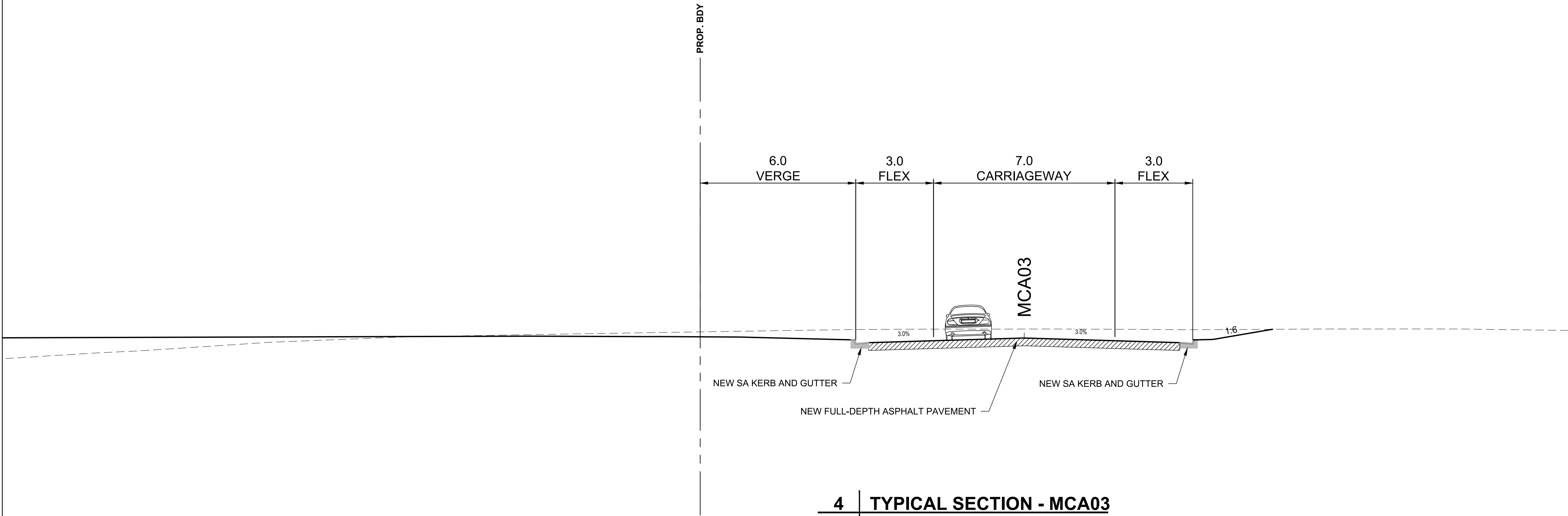
60646285-SHT-01A-1000-CI-0142

PRELIMINARY





3 | **TYPICAL SECTION - MCB02**  
CI-0121 SCALE 1:100



4 | **TYPICAL SECTION - MCA03**  
CI-0121 SCALE 1:100

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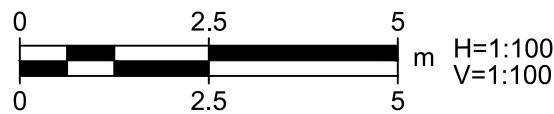
PROJECT  
**BRADFIELD  
PRECINCT  
BRINGELLY**

CLIENT



Western City &  
Aerotropolis Authority

SCALE BAR



SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS  
NOT NORMALLY ASSOCIATED WITH THE TYPES  
OF WORK DETAILED ON THIS DRAWING?

☐ NO  
☐ YES

PROJECT MANAGEMENT INITIALS

VE	CV	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	GDA94	SURVEY	
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ISSUE/REVISION

1	15.11.21	PRELIMINARY CONCEPT DESIGN
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60646285

SHEET TITLE

TYPICAL SITE SECTIONS  
SHEET 03

SHEET NUMBER

60646285-SHT-01A-1000-CI-0143

PRELIMINARY





**LEGEND**

• PROPOSED SIGN POST

 PROPOSED SIGNAGE

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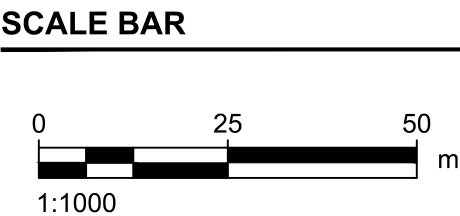
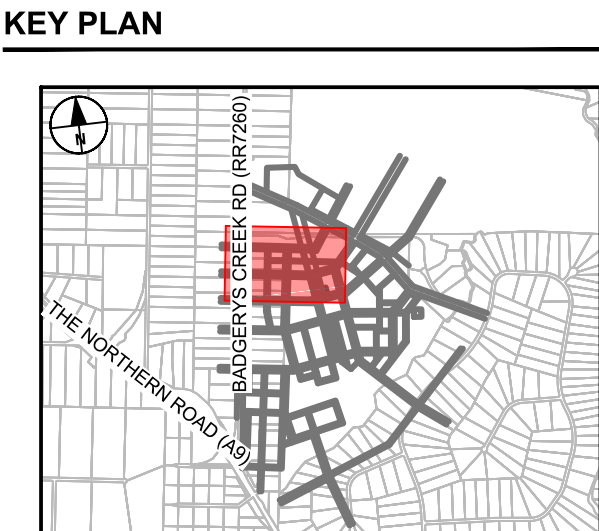
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A.B.N 20 093 846 925  
www.aecom.com

PROJECT

**BRADFIELD  
PRECINCT  
BRINGELLY**

CLIENT

 **Western City &  
Aerotropolis Authority**



**SAFETY IN DESIGN INFORMATION**

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☐ NO  
☐ YES

PROJECT MANAGEMENT INITIALS		
VE	CV	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA		
DATUM	GDA94	SURVEY

ISSUE/REVISION		
I/R	DATE	DESCRIPTION
1	15.11.21	PRELIMINARY CONCEPT DESIGN

PROJECT NUMBER

60646285

SHEET TITLE

SIGNAGE AND LINEMARKING  
SHEET 1

SHEET NUMBER

60646285-SHT-01-1000-CI-0161

PRELIMINARY



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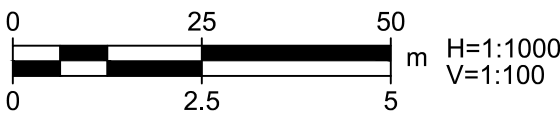
PROJECT

BRADFIELD  
PRECINCT  
BRINGELLY

CLIENT



SCALE BAR



SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?  
☐ NO  
☐ YES

PROJECT MANAGEMENT INITIALS

VE	CV	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	GDA94	SURVEY	
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ISSUE/REVISION

I/R	DATE	DESCRIPTION
1	15.11.21	PRELIMINARY CONCEPT DESIGN

PROJECT NUMBER

60646285

SHEET TITLE

LONGITUDINAL SECTIONS  
SHEET 01

SHEET NUMBER

60646285-SHT-01-1000-CI-0341

PRELIMINARY

DATUM (m) 66.000

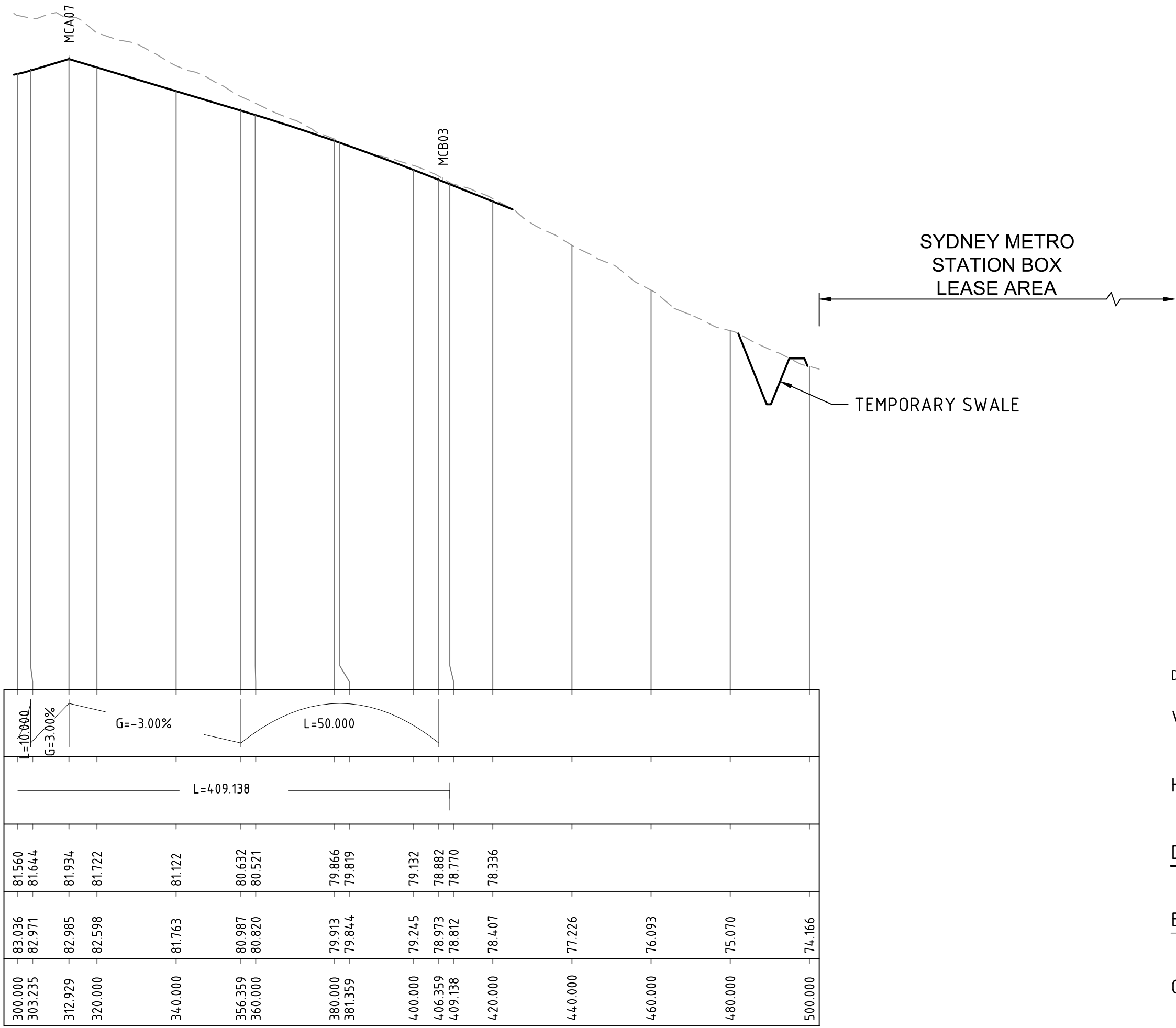
VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DESIGN LEVELS

EXISTING LEVELS

CHAINAGE



LONGITUDINAL SECTION - MCA03

A1 HORIZONTAL SCALE 1:1000

A1 VERTICAL SCALE 1:100

DATUM (m) 75.000

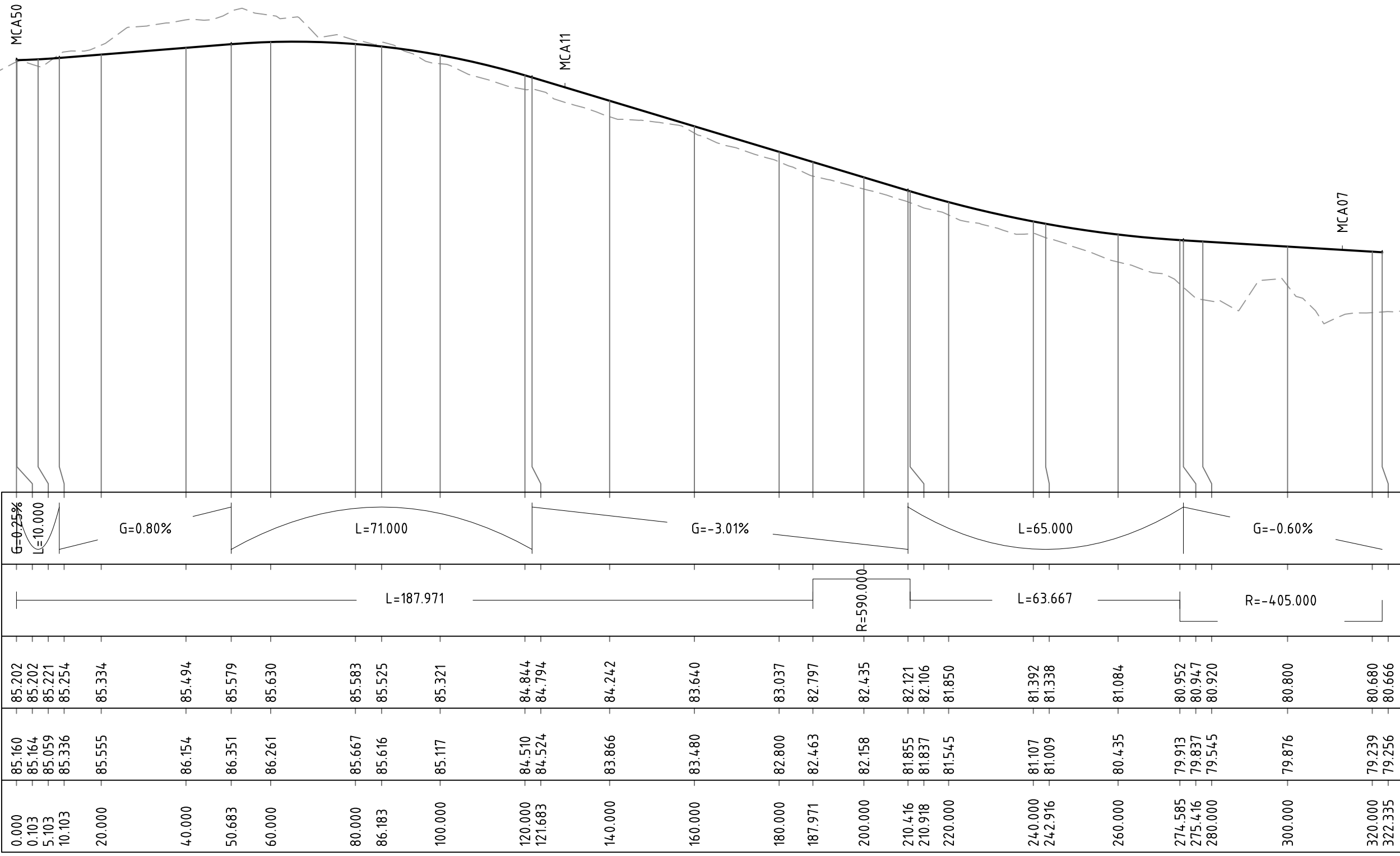
VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DESIGN LEVELS

EXISTING LEVELS

CHAINAGE

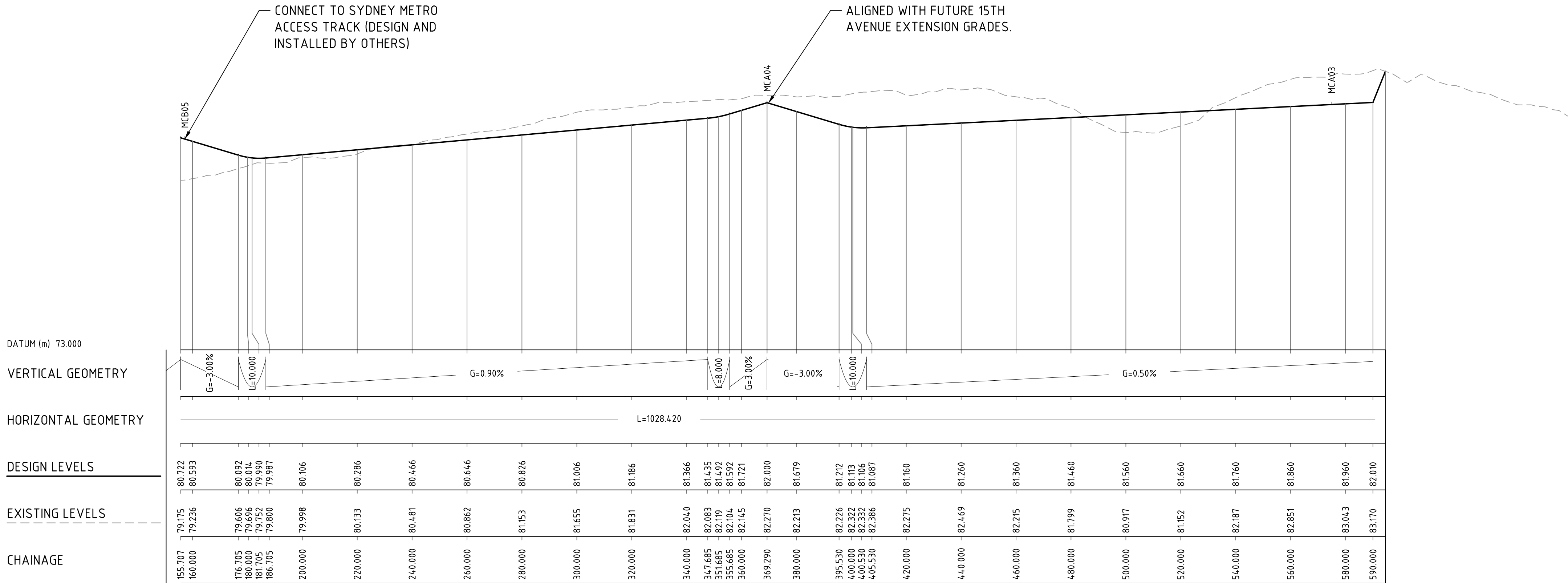


LONGITUDINAL SECTION - MCB05

A1 HORIZONTAL SCALE 1:1000

A1 VERTICAL SCALE 1:100





LONGITUDINAL SECTION - MCA07

A1 HORIZONTAL SCALE 1:1000

A1 VERTICAL SCALE 1:100

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Western City &  
Aerotropolis Authority

SCALE BAR



SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO  
☐ YES

PROJECT MANAGEMENT INITIALS

VE	CV	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	GDA94	SURVEY	
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ISSUE/REVISION

1	15.11.21	PRELIMINARY CONCEPT DESIGN
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60646285

SHEET TITLE

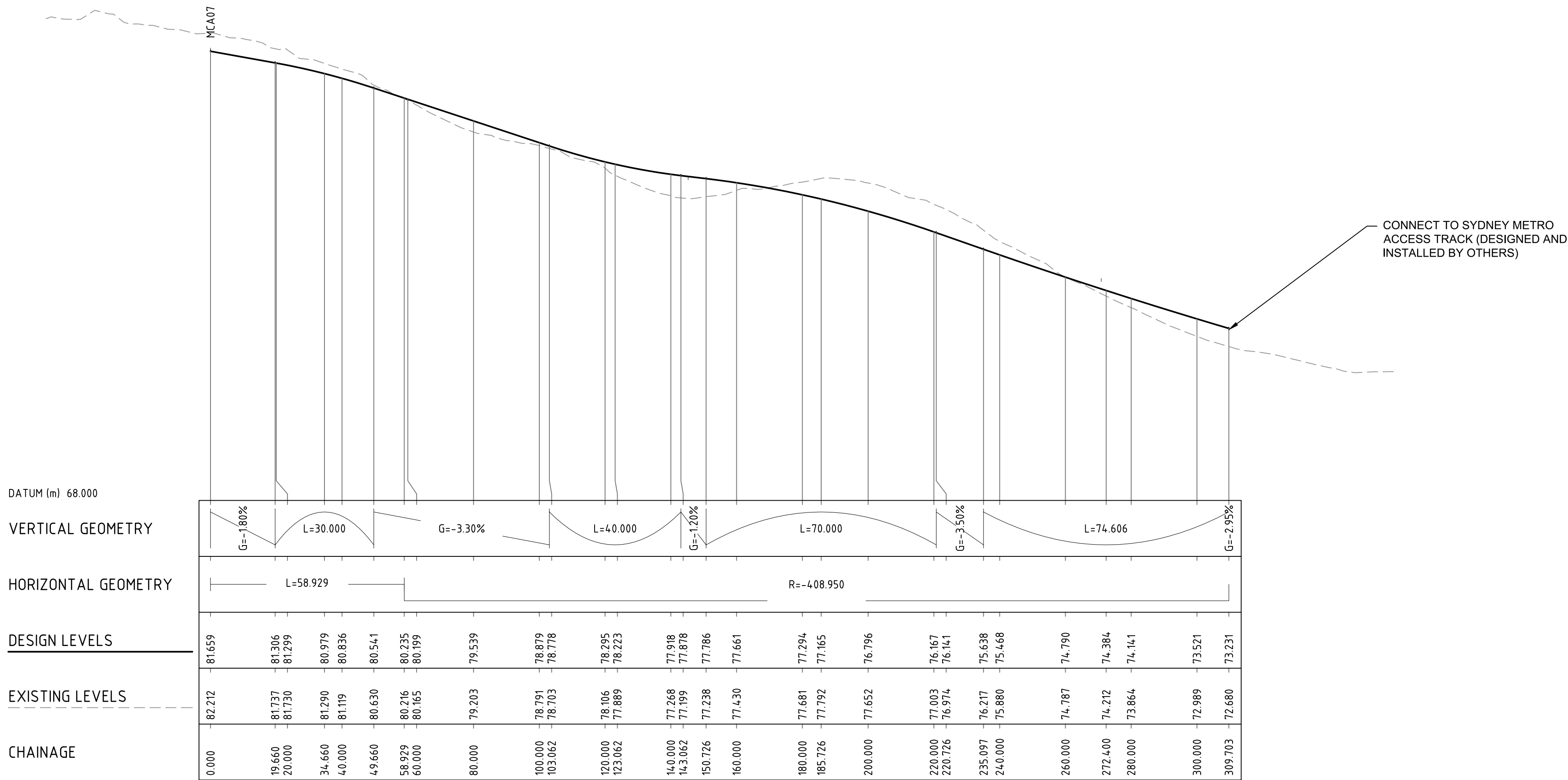
LONGITUDINAL SECTIONS  
SHEET 02

SHEET NUMBER

60646285-SHT-01-1000-CI-0342

PRELIMINARY





LONGITUDINAL SECTION - MCB02

A1 HORIZONTAL SCALE 1:1000

A1 VERTICAL SCALE 1:100

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Western City &  
Aerotropolis Authority

SCALE BAR



SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS  
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OF WORK DETAILED ON THIS DRAWING?

☐ NO  
☐ YES

PROJECT MANAGEMENT INITIALS

VE	CV	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	GDA94	SURVEY	
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ISSUE/REVISION

1	15.11.21	PRELIMINARY CONCEPT DESIGN
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60646285

SHEET TITLE

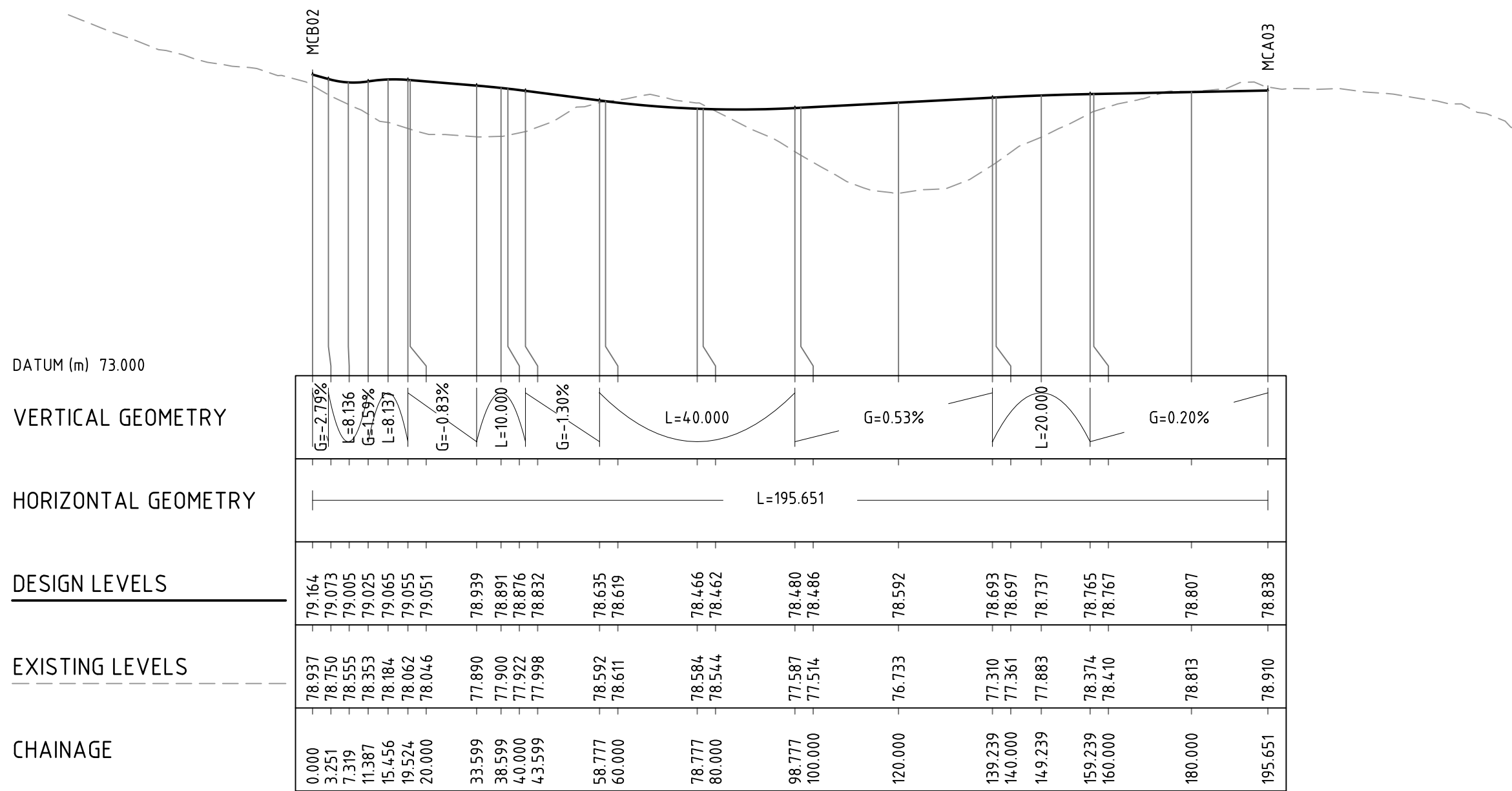
LONGITUDINAL SECTIONS  
SHEET 03

SHEET NUMBER

60646285-SHT-01-1000-CI-0343

PRELIMINARY





LONGITUDINAL SECTION - MCB03

A1 HORIZONTAL SCALE 1:1000

A1 VERTICAL SCALE 1:100

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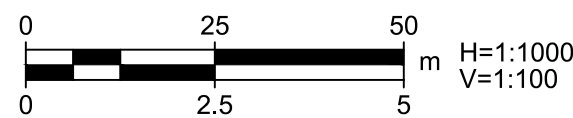
PROJECT

BRADFIELD  
PRECINCT  
BRINGELLY

CLIENT



SCALE BAR



SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO

☐ YES

PROJECT MANAGEMENT INITIALS

VE	CV	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	GDA94	SURVEY	
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ISSUE/REVISION

1	15.11.21	PRELIMINARY CONCEPT DESIGN
I/R	DATE	DESCRIPTION

PROJECT NUMBER

60646285

SHEET TITLE

LONGITUDINAL SECTIONS  
SHEET 04

SHEET NUMBER

60646285-SHT-01-1000-CI-0344

PRELIMINARY

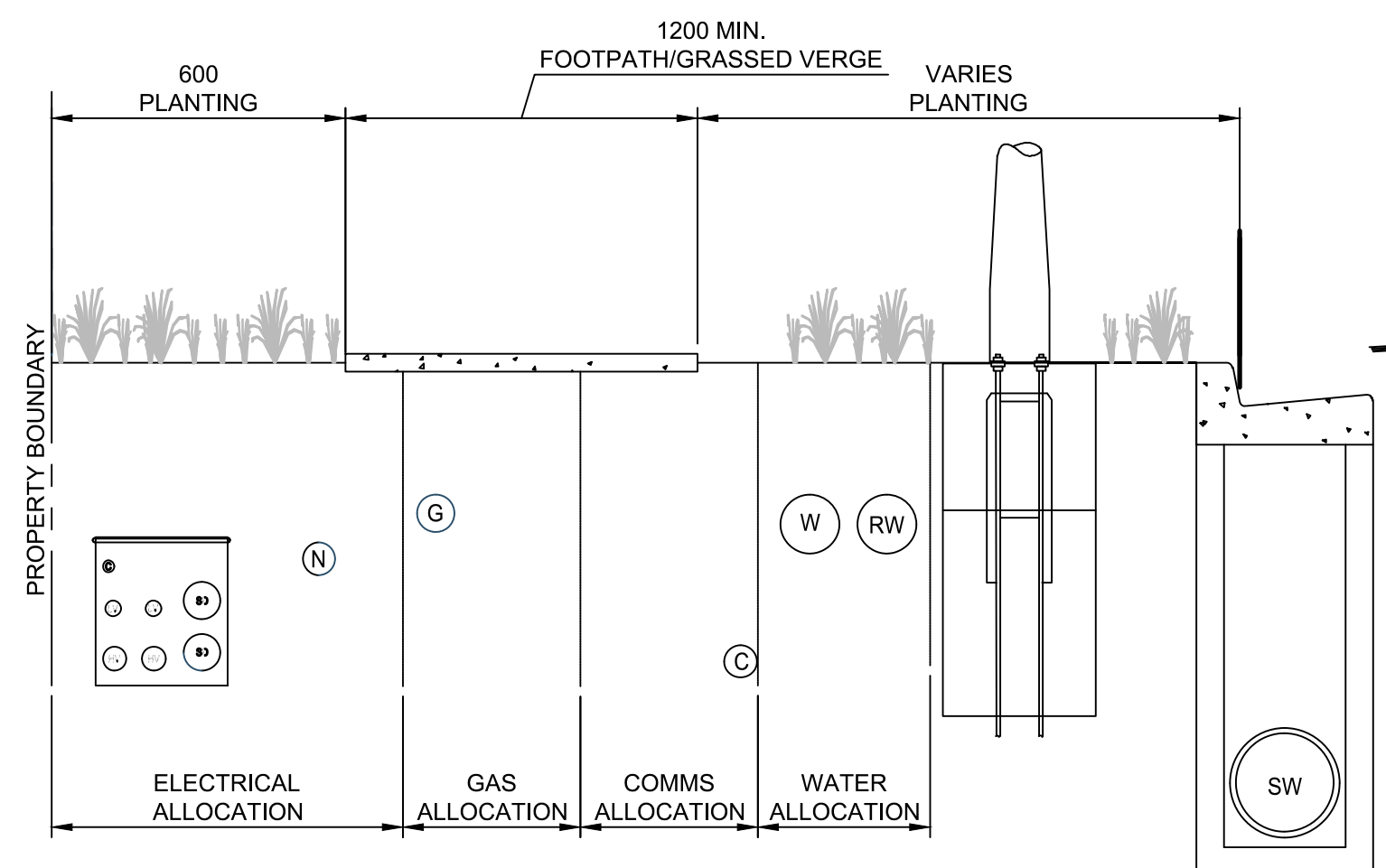


**NOTES**

- FOR GENERAL NOTES REFER TO DRAWING SERIES 1000-CI-0005.
- EXISTING AND NEW UTILITIES SHOWN INDICATIVELY FOR INFORMATION ONLY. DETAILED DESIGN BEING DEVELOPED IN CONSULTATION WITH SERVICES SERVICES AUTHORITIES.

**LEGEND**

	EXTENT OF WORKS
	PROPOSED COMMS
	PROPOSED RMS
	PROPOSED DRAINAGE
	PROPOSED ELECTRICAL
	PROPOSED ELECTRICAL (HV)
	PROPOSED ELECTRICAL (LV)
	PROPOSED STREET LIGHTING
	PROPOSED GAS
	PROPOSED WATER (RECYCLED)
	PROPOSED SEWER
	PROPOSED WATER (POTABLE)
	PROPOSED DRAINAGE PITS
	PROPOSED LIGHT POLE / TRAFFIC SIGNAL
	PROPOSED STREET LIGHTING PIT
	EXISTING COMMS
	EXISTING GAS
	EXISTING SEWER
	EXISTING DRAINAGE
	EXISTING WATER
	EXISTING ELECTRICAL
	EXISTING HV
	EXISTING LV
	EXISTING DRAINAGE PITS
	EXISTING LIGHT POLE / TRAFFIC SIGNAL (POTENTIAL RELOCATION TO BE CONFIRMED)
	EXISTING UTILITY PIT
	PROPOSED UTILITIES INSTALLED FOR SYDNEY METRO ACCESS TRACK PROJECT BY OTHERS
	METRO LEASE AREA



**A** **TYPICAL SECTION - SHARED UTILITY TRENCH**  
(SOURCE: ENGINEERING DESIGN MANUAL FOR WESTERN SYDNEY - ACOR) N.T.S.

- CONNECTION FOR 'FIRST BUILDING'
- PRIVATE METERED RECYCLED WATERMAIN
  - PRIVATE METERED POTABLE WATERMAIN
  - PRIVATE METERED GAS MAIN
  - COMMUNICATIONS CONDUITS

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**AECOM**

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PROJECT

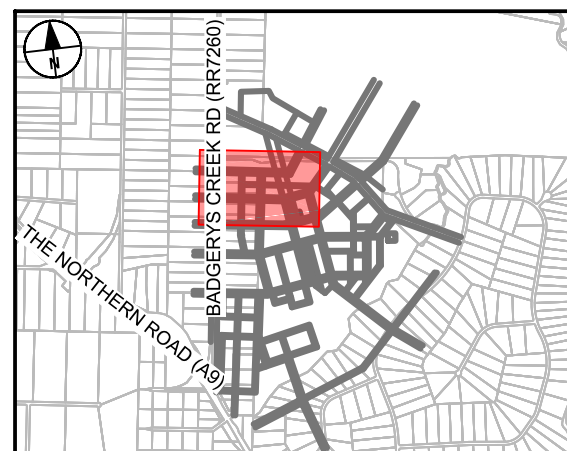
BRADFIELD  
PRECINCT  
BRINGELLY

CLIENT

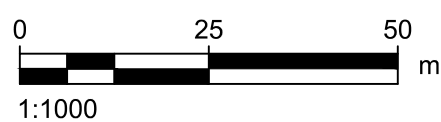


Western City &  
Aerotropolis Authority

KEY PLAN



SCALE BAR



**SAFETY IN DESIGN INFORMATION**

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO  
☐ YES

**PROJECT MANAGEMENT INITIALS**

VE	CV	GAR
DESIGNER	CHECKED	APPROVED

**PROJECT DATA**

DATUM	GDA94	SURVEY	
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**ISSUE/REVISION**

1/R	DATE	DESCRIPTION
1	15.11.21	PRELIMINARY CONCEPT DESIGN

**PROJECT NUMBER**

60646285

**SHEET TITLE**

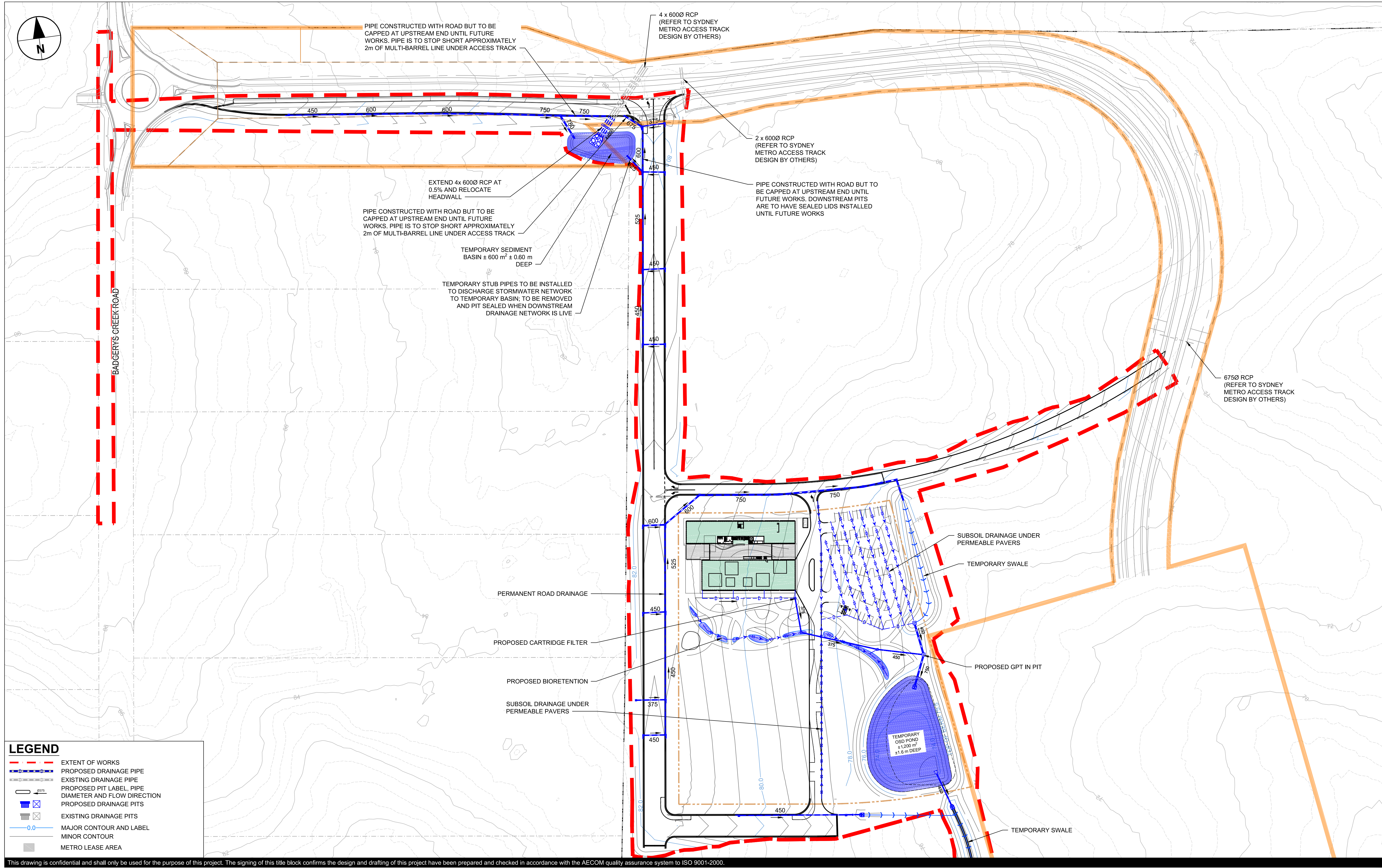
COMBINED SERVICES PLAN

**SHEET NUMBER**

60646285-SHT-01-1000-CI-0601

PRELIMINARY





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PRECINCT  
BRINGELLY

CLIENT

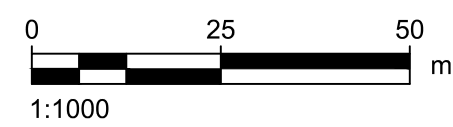


Western City & Aerotropolis Authority

KEY PLAN



SCALE BAR



SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO  
☐ YES

PROJECT MANAGEMENT INITIALS

VE	CV	GAR
DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	GDA94	SURVEY	
-------	-------	--------	--

ISSUE/REVISION

1/R	DATE	DESCRIPTION
1	15.11.21	PRELIMINARY CONCEPT DESIGN

PROJECT NUMBER

60646285

SHEET TITLE

STORMWATER DRAINAGE PLAN

SHEET NUMBER

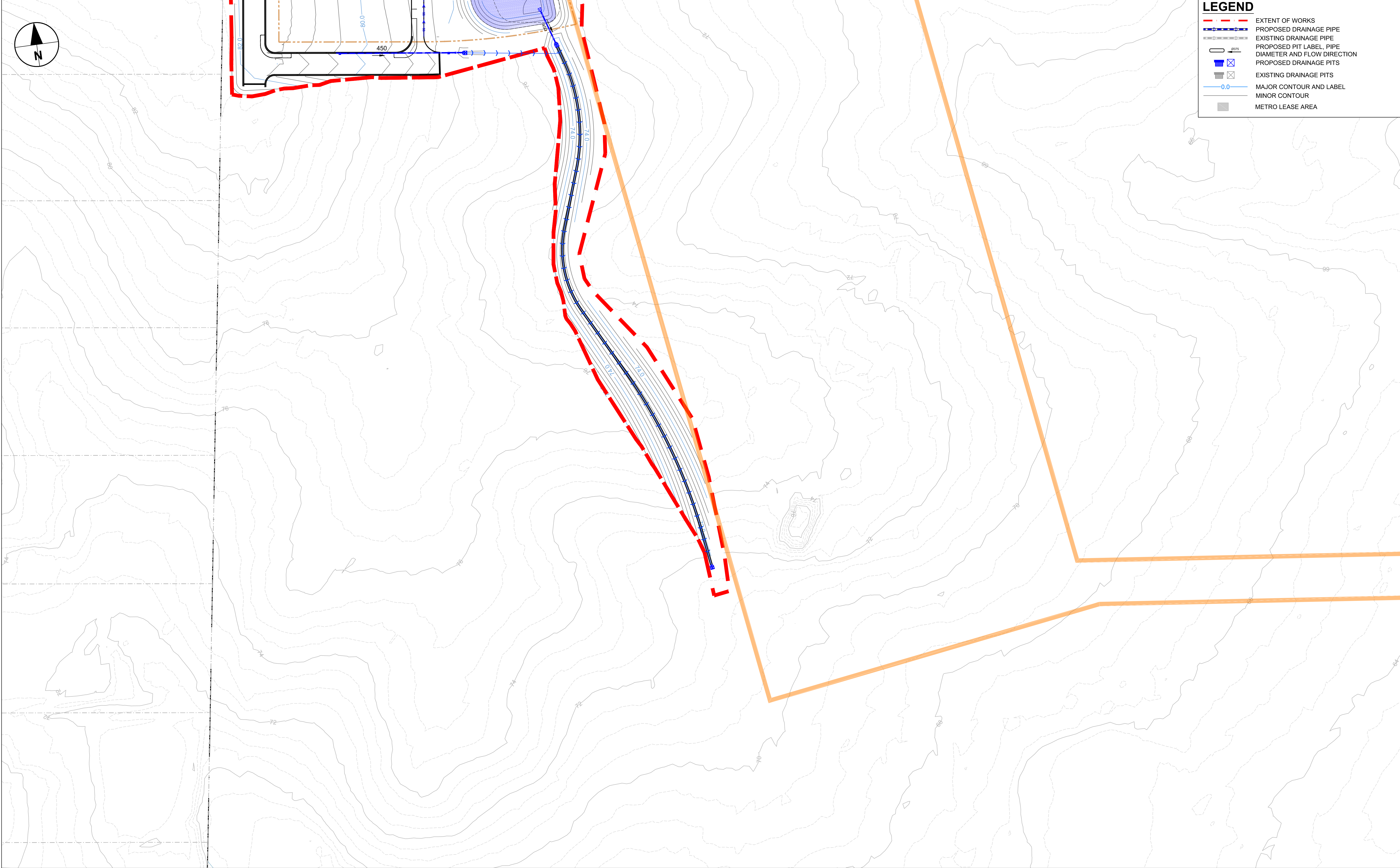
60646285-SHT-01-1000-CI-0621

PRELIMINARY



ISO A1 594mm x 841mm

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Filename: C:\P\WORKING\AECOM\DS10\_A\JEEFLANG, YAN\AECOM.COM\DS10\60646285-SHT-01-1000-CI-0622.DWG



- LEGEND**
- EXTENT OF WORKS
  - PROPOSED DRAINAGE PIPE
  - EXISTING DRAINAGE PIPE
  - PROPOSED PIT LABEL, PIPE DIAMETER AND FLOW DIRECTION
  - PROPOSED DRAINAGE PITS
  - EXISTING DRAINAGE PITS
  - MAJOR CONTOUR AND LABEL
  - MINOR CONTOUR
  - METRO LEASE AREA

This drawing is confidential and shall only be used for the purpose of this project. The signing of this title block confirms the design and drafting of this project have been prepared and checked in accordance with the AECOM quality assurance system to ISO 9001-2000.



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

PROJECT

BRADFIELD  
PRECINCT  
BRINGELLY

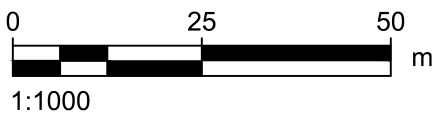
CLIENT



KEY PLAN



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PROJECT DATA

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PROJECT NUMBER

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SHEET TITLE

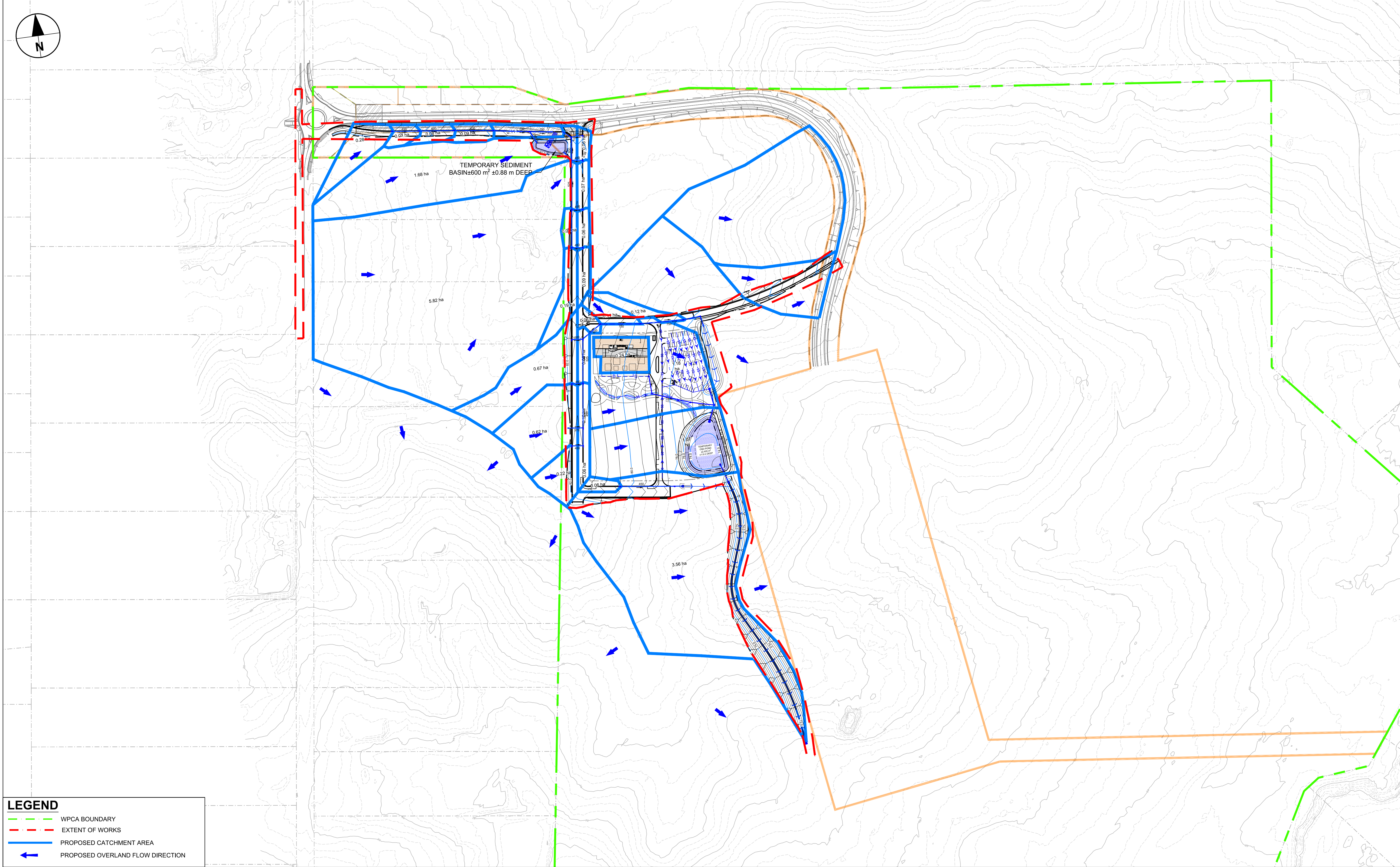
STORMWATER DRAINAGE PLAN

SHEET NUMBER

60646285-SHT-01-1000-CI-0622

PRELIMINARY





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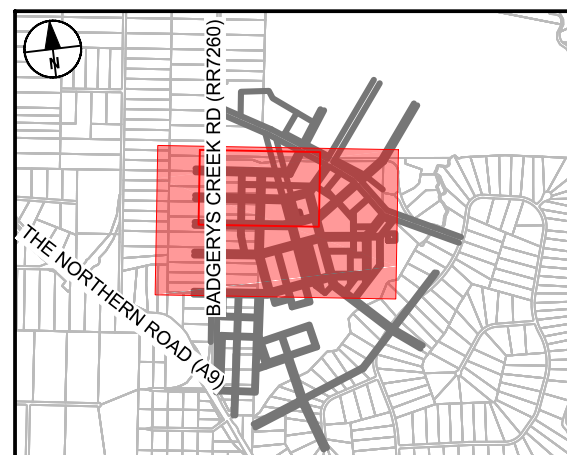
BRADFIELD  
PRECINCT  
BRINGELLY

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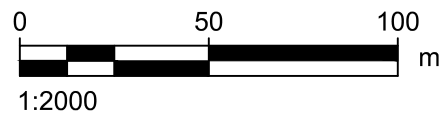


Western City &  
Aerotropolis Authority

KEY PLAN



SCALE BAR



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DESIGNER	CHECKED	APPROVED

PROJECT DATA

DATUM	GDA94	SURVEY	
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ISSUE/REVISION

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SHEET TITLE

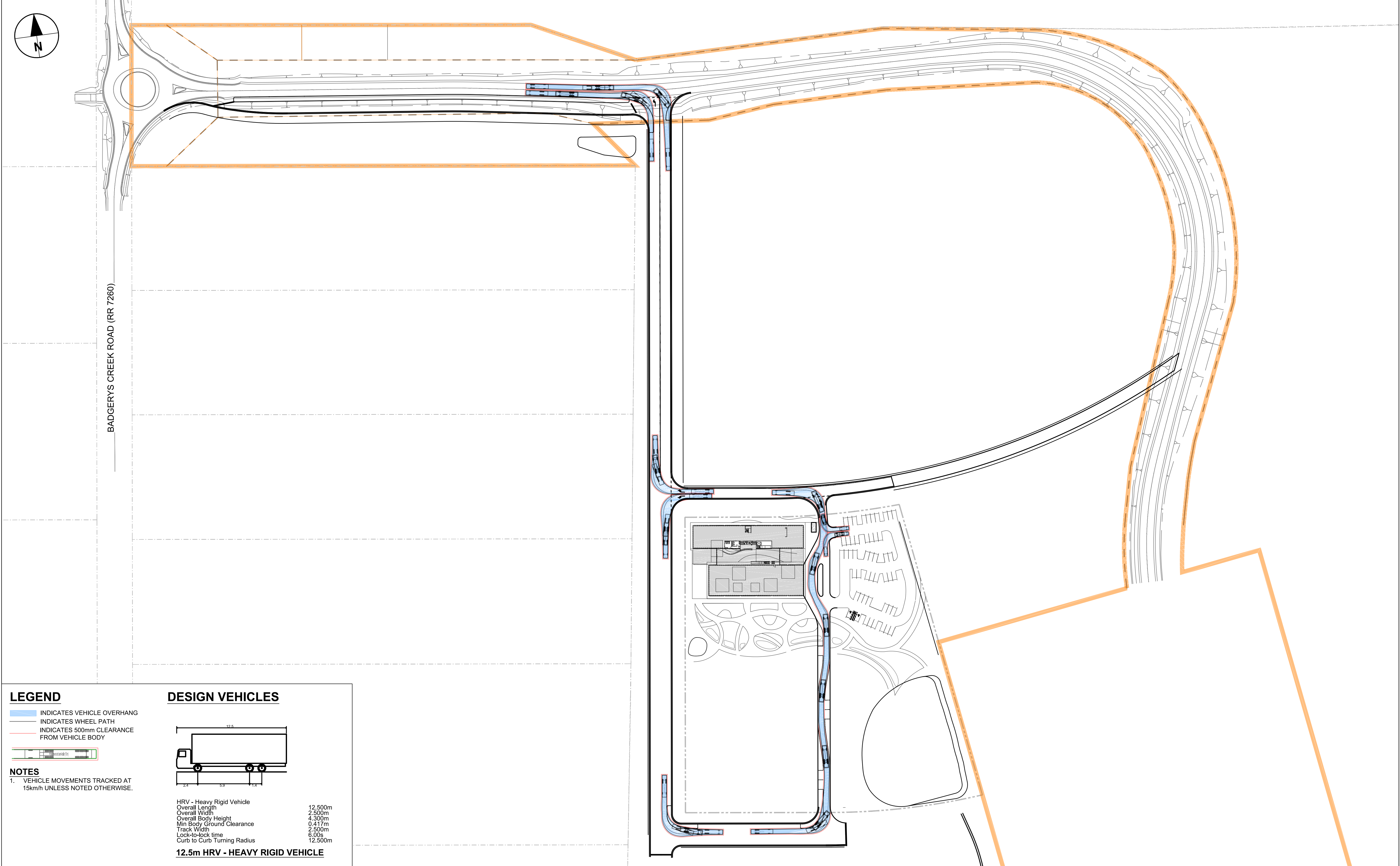
GENERAL ARRANGEMENT  
POST DEVELOPMENT CATCHMENT PLAN

SHEET NUMBER

60646285-SHT-01-1000-CI-0671

PRELIMINARY





**LEGEND**

- INDICATES VEHICLE OVERHANG
- INDICATES WHEEL PATH
- INDICATES 500mm CLEARANCE FROM VEHICLE BODY

**DESIGN VEHICLES**

**NOTES**

1. VEHICLE MOVEMENTS TRACKED AT 15km/h UNLESS NOTED OTHERWISE.

**12.5m HRV - HEAVY RIGID VEHICLE**

HRV - Heavy Rigid Vehicle	
Overall Length	12.500m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.417m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	12.500m

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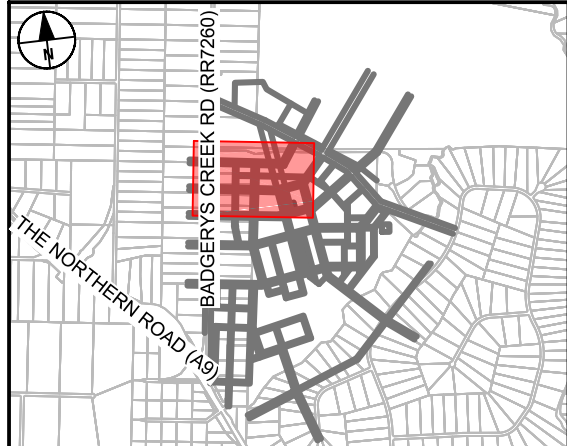
PROJECT

BRADFIELD  
PRECINCT  
BRINGELLY

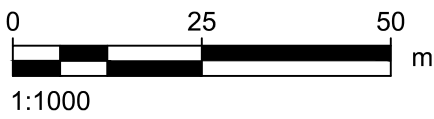
CLIENT



KEY PLAN



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DESIGNER	CHECKED	APPROVED

PROJECT DATA

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ISSUE/REVISION

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PROJECT NUMBER

60646285

SHEET TITLE

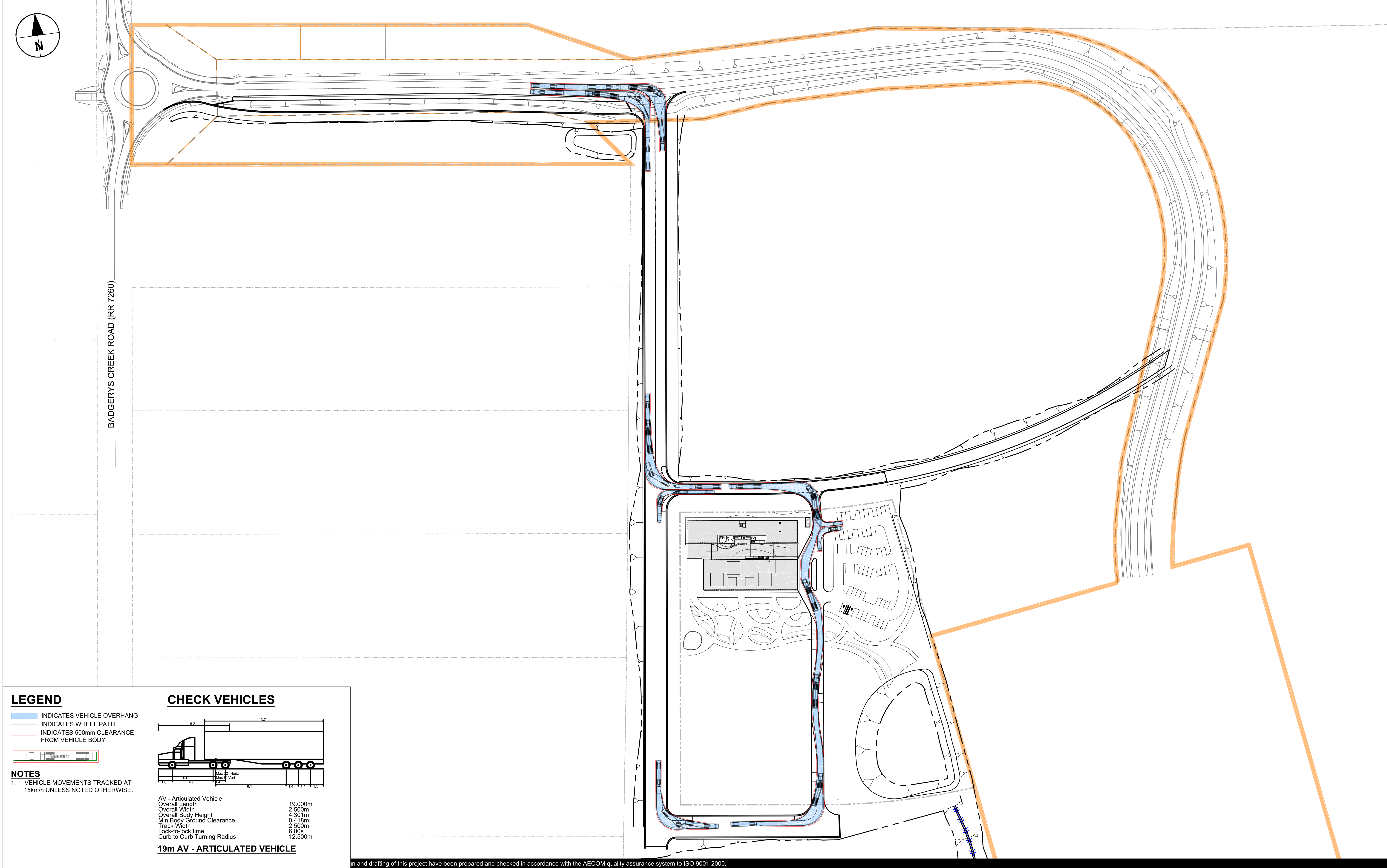
TURNING PATH PLAN -  
12.5m HRV

SHEET NUMBER

60646285-SHT-01-1000-CI-0971

PRELIMINARY





**LEGEND**

- INDICATES VEHICLE OVERHANG
- INDICATES WHEEL PATH
- INDICATES 500mm CLEARANCE FROM VEHICLE BODY

**NOTES**

1. VEHICLE MOVEMENTS TRACKED AT 15km/h UNLESS NOTED OTHERWISE.

**CHECK VEHICLES**

AV - Articulated Vehicle  
Overall Length 19.000m  
Overall Width 2.500m  
Overall Body Height 4.301m  
Min Body Ground Clearance 0.418m  
Track Width 2.500m  
Lock-to-lock time 6.00s  
Curb to Curb Turning Radius 12.500m

**19m AV - ARTICULATED VEHICLE**

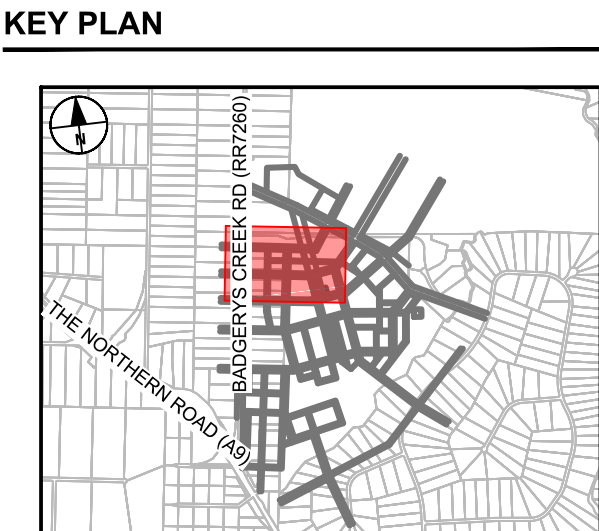
Design and drafting of this project have been prepared and checked in accordance with the AECOM quality assurance system to ISO 9001-2000.

**AECOM**  
CONSULTANT

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PROJECT  
**BRADFIELD  
PRECINCT  
BRINGELLY**

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☐ NO  
☐ YES

PROJECT MANAGEMENT INITIALS			
VE	CV	GAR	
DESIGNER	CHECKED	APPROVED	
PROJECT DATA			
DATUM	GDA94	SURVEY	

ISSUE/REVISION		
I/R	DATE	DESCRIPTION
1	15.11.21	PRELIMINARY CONCEPT DESIGN

PROJECT NUMBER  
60646285

SHEET TITLE  
TURNING PATH PLAN  
19m AV

SHEET NUMBER  
60646285-SHT-01-1000-CI-0972

PRELIMINARY