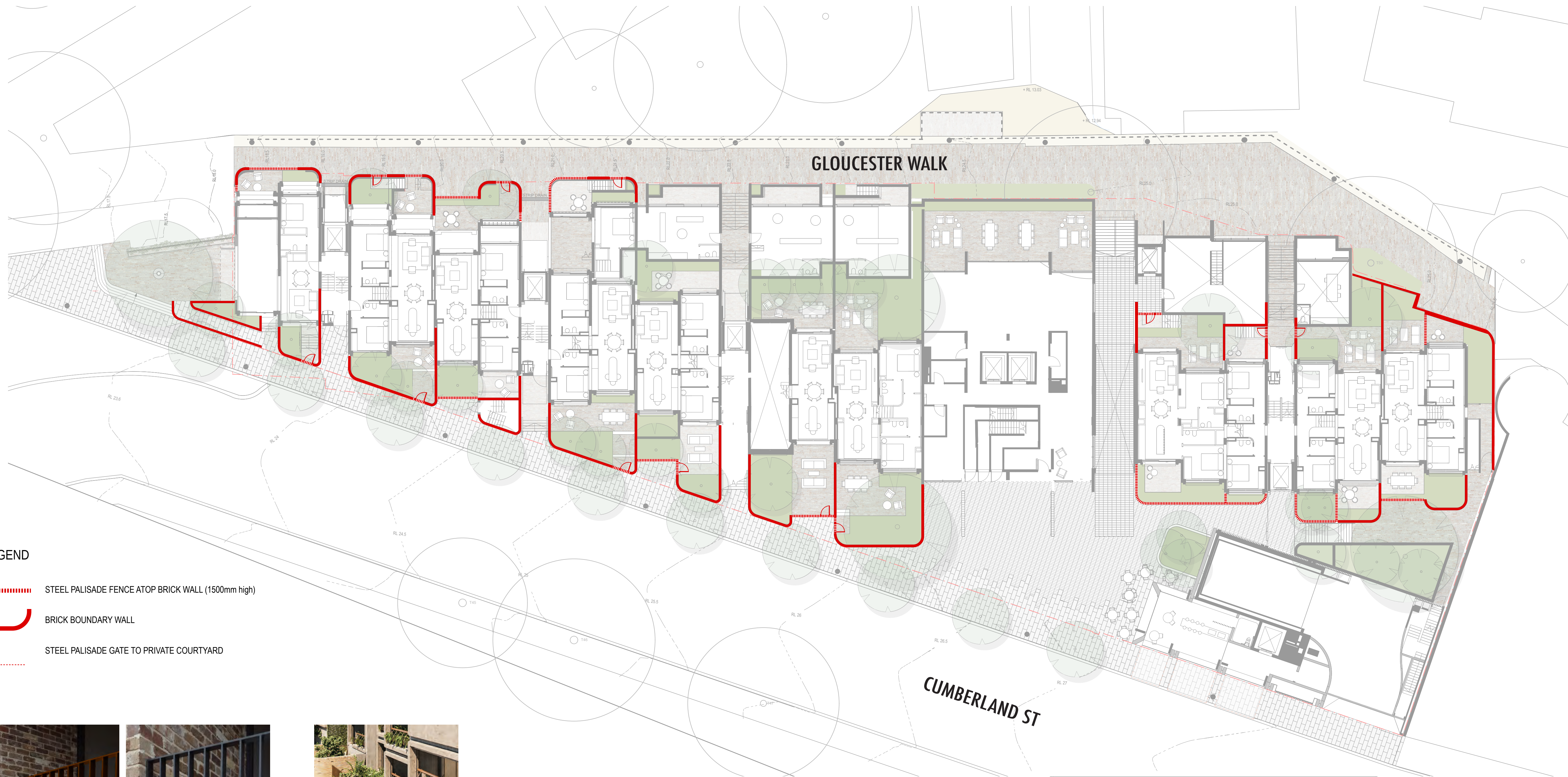




- LEGEND
- STEEL PALISADE FENCE ATOP BRICK WALL (1500mm high)
 - BRICK BOUNDARY WALL
 - STEEL PALISADE GATE TO PRIVATE COURTYARD



STEEL PALISADE FENCE



BRICK BOUNDARY WALL



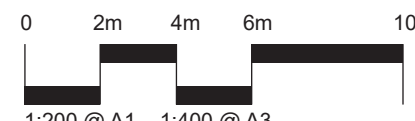
**Planning,
Industry &
Environment**

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10384

Granted on: 18 June 2021

Signed: AW Sheet No: 74 of 88

<table><tr><th>ISS.</th><th>AMENDMENT</th><th>DATE</th><th>BY</th></tr><tr><td>D</td><td>DRAFT SSDA</td><td>24.09.20</td><td>LB</td></tr><tr><td>E</td><td>DRAFT SSDA</td><td>16.10.20</td><td>LB</td></tr><tr><td>F</td><td>SSDA</td><td>27.10.20</td><td>LB</td></tr><tr><td>G</td><td>Revised SSDA (response to DPIE RFIs)</td><td>04.03.21</td><td>LB</td></tr><tr><td>H</td><td>Revised SSDA (response to Council Comments)</td><td>05.05.21</td><td>GD</td></tr><tr><td>I</td><td>Revised SSDA (response to Council Comments)</td><td>19.05.21</td><td>GD</td></tr></table>				ISS.	AMENDMENT	DATE	BY	D	DRAFT SSDA	24.09.20	LB	E	DRAFT SSDA	16.10.20	LB	F	SSDA	27.10.20	LB	G	Revised SSDA (response to DPIE RFIs)	04.03.21	LB	H	Revised SSDA (response to Council Comments)	05.05.21	GD	I	Revised SSDA (response to Council Comments)	19.05.21	GD	  1:200 @ A1 _ 1:400 @ A3		IMPORTANT NOTES: Do not scale from drawings. All dimensions to be checked by the attention of the Landscape Architect. Larger scale drawings and written dimensions take precedence. All dimensions in mm unless otherwise stated. All dimensions and levels to be checked. Verify all dimensions on site before the commencement of any works. Constructors shall ensure and protect all services prior to construction. All work shall be carried out in accordance with AS/NZS 1546:2018 and Local Government Regulations. Structural Details shall be subject to Engineer. Drainage & Water Feature Details shall be subject to Hydrologic Engineer. This Drawing is copyright to 360 degrees. Architect	CLIENT Sirius Developments Pty Ltd ARCHITECT  DRAWN LB CHECKED LB ISSUE SSDA	DWG. TITLE BOUNDARY WALL/FENCE PLAN PROJECT SIRIUS SITE, 2-60 CUMBERLAND ST, THE ROCKS	 Level 3, 1 Marys Place Sydney Hills NSW 21510 P +61 (0) 2 9539 3801 W www.360.net.au ABN: 90 146 901 382 L-DA-029
ISS.	AMENDMENT	DATE	BY																																		
D	DRAFT SSDA	24.09.20	LB																																		
E	DRAFT SSDA	16.10.20	LB																																		
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STEEL PALISADE FENCE



BRICK BOUNDARY WALL



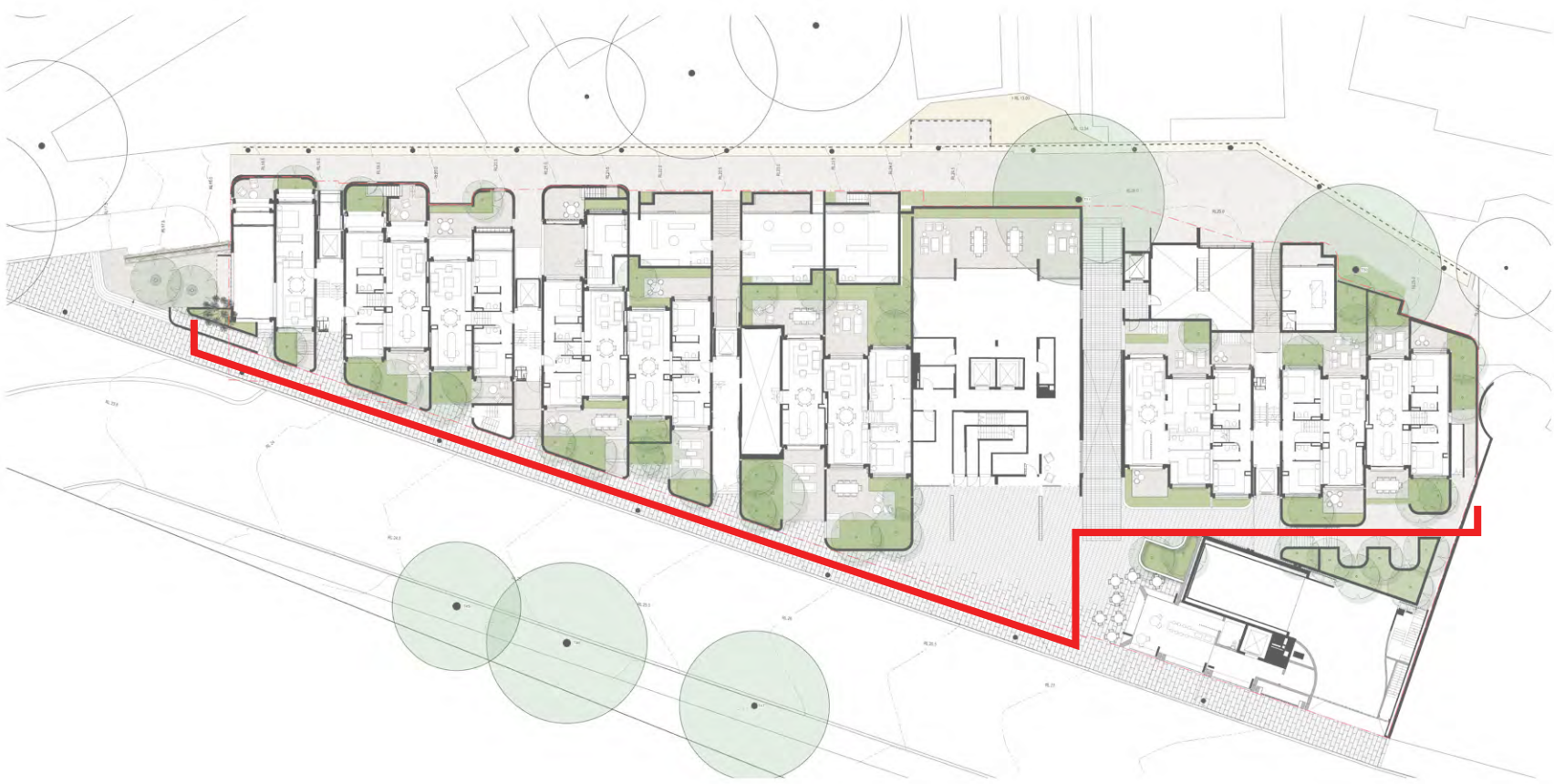
Planning,
Industry &
Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: **SSD 10384**

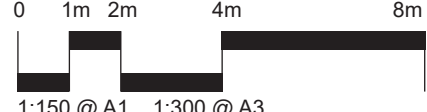
Granted on: **18 June 2021**

Signed: **AW** Sheet No: **75 of 88**



KEY PLAN

ISS.	AMENDMENT	DATE	BY
D	DRAFT SSDA	24.09.20	LB
E	DRAFT SSDA	16.10.20	LB
F	SSDA	27.10.20	LB
G	Revised SSDA (response to DPIE RFIs)	04.03.21	LB
H	Revised SSDA (response to Council Comments)	05.05.21	GD
I	Revised SSDA (response to Council Comments)	19.05.21	GD



1:150 @ A1 - 1:300 @ A3

IMPORTANT NOTES:

Do not scale from drawings.

All dimensions are to be checked by the client prior to construction.

Verify all dimensions on site before the commencement of any works.

Constructors shall ensure and provide all services prior to construction.

All work shall be carried out in accordance with AS/NZS 1546 and Local Government Regulations.

Structural Details shall be subject to Engineer's approval.

Drainage & Water Features Details shall be subject to Hydrologist's approval.

This Drawing is copyright to 360 Degrees.

CLIENT
Sirius
Developments
Pty Ltd

ARCHITECT
BVN

CHECKED
LB

SCALE
1:50

DRAWN
LB

ISSUE
SSDA

DWG. TITLE
CUMBERLAND STREET ELEVATION

PROJECT
SIRIUS SITE, 2-60 CUMBERLAND ST, THE ROCKS

360°

Level 3, 3 Marys Place
Sydney Hills NSW 21510
P +61 (0) 83336 38301
W www.360.net.au
ABN: 60 146 801 382

L-DA-030

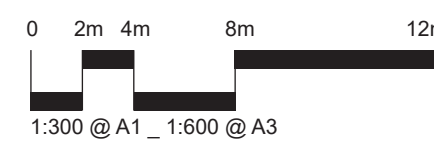
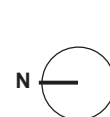
Trees Canopies (within site)	Area (m2)
T1	7.07
T5-9	73.02
T10	28.27
T11	12.57
T12,13	25.86
T14-15	16.41
T16	5.27
T17	19.63
T18	12.51
T19	19.63
T20-24	60.20
T25	12.57
T26	19.63
T27-28	17.67
T29	12.57
T30	12.57
T31-32	37.67
T33	10.09
T34-35	16.98
T36	20.76
T37-41	72.20
TOTAL	513.15

EXISTING SITE CANOPY COVERAGE

Site Area = 3,664m²
Existing Canopy Coverage = 513.15m²
Site Percentage of Canopy Cover = 14.01%

Refer L-DA-033 for Proposed Site Canopy Coverage

ISS.	AMENDMENT	DATE	BY
A	Revised SSDA (response to DPIE RFIs)	04.03.21	LB
B	Revised SSDA (response to Council Comments)	26.04.21	GD
C	Revised SSDA (response to Council Comments)	05.05.21	GD
D	Revised SSDA (response to Council Comments)	19.05.21	GD



IMPORTANT NOTES:
Do not scale from drawings.
All dimensions to be checked to the attention of the Landscape Architect.
Larger scale drawings and written dimensions take preference. All dimensions in mm unless otherwise stated.
All tree dimensions and data to be checked.
Verify all dimensions on site before the commencement of any works.
Consultation shall be undertaken and written approval given prior to construction.
All work shall be carried out in accordance with ASIA, AS4 and Local Government Regulations.
Revised Details shall be subject to Engineer's approval.
Design & Water Feature Details shall be subject to Hydrographer's approval.
This drawing is copyright to 360 Degrees.
Architect

CLIENT
Sirius
Developments
Pty Ltd

ARCHITECT
BVN
DRAWN
LB

CHECKED
LB
ISSUE
SSDA

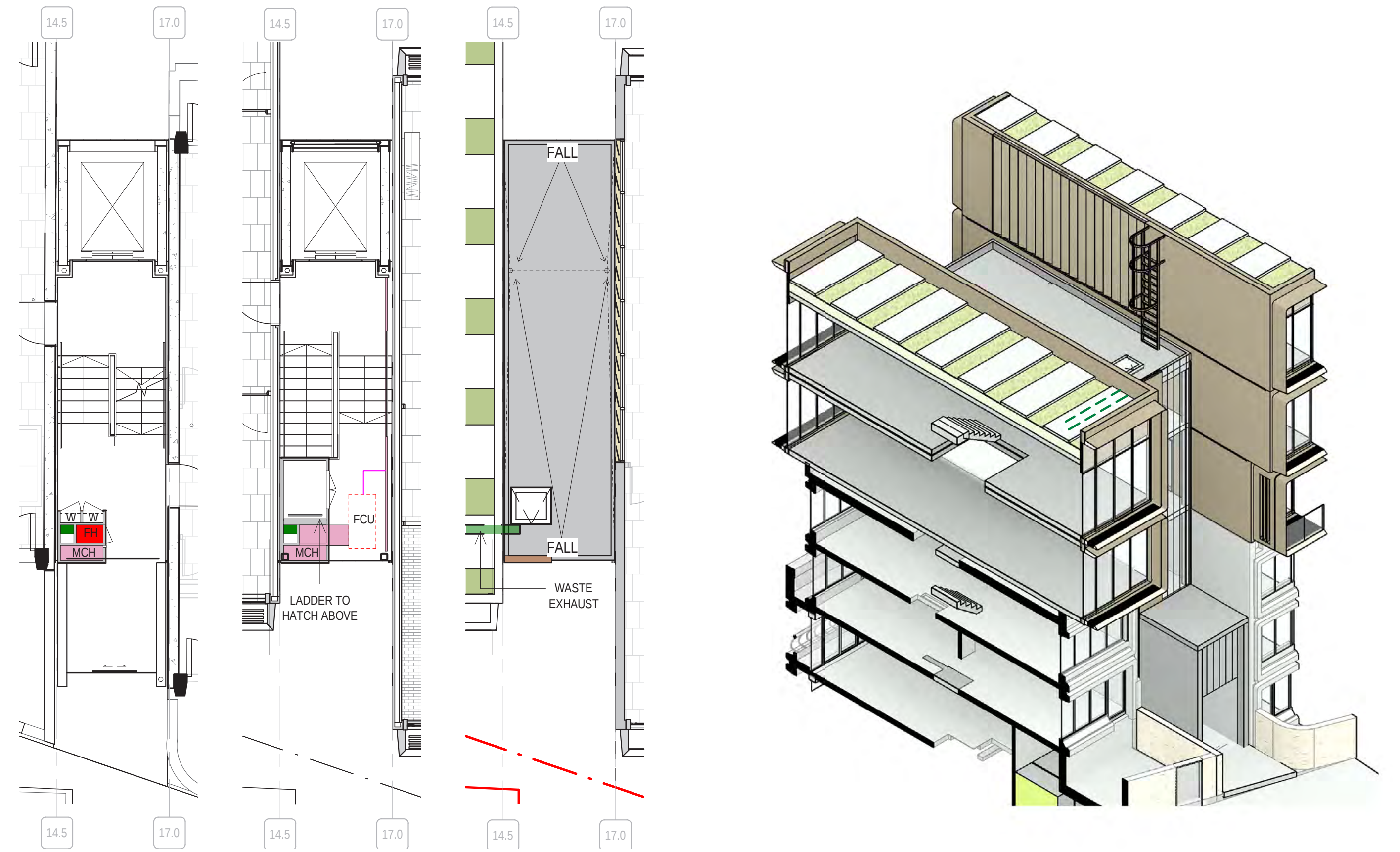
DWG. TITLE

SITE CANOPY COVERAGE PLAN

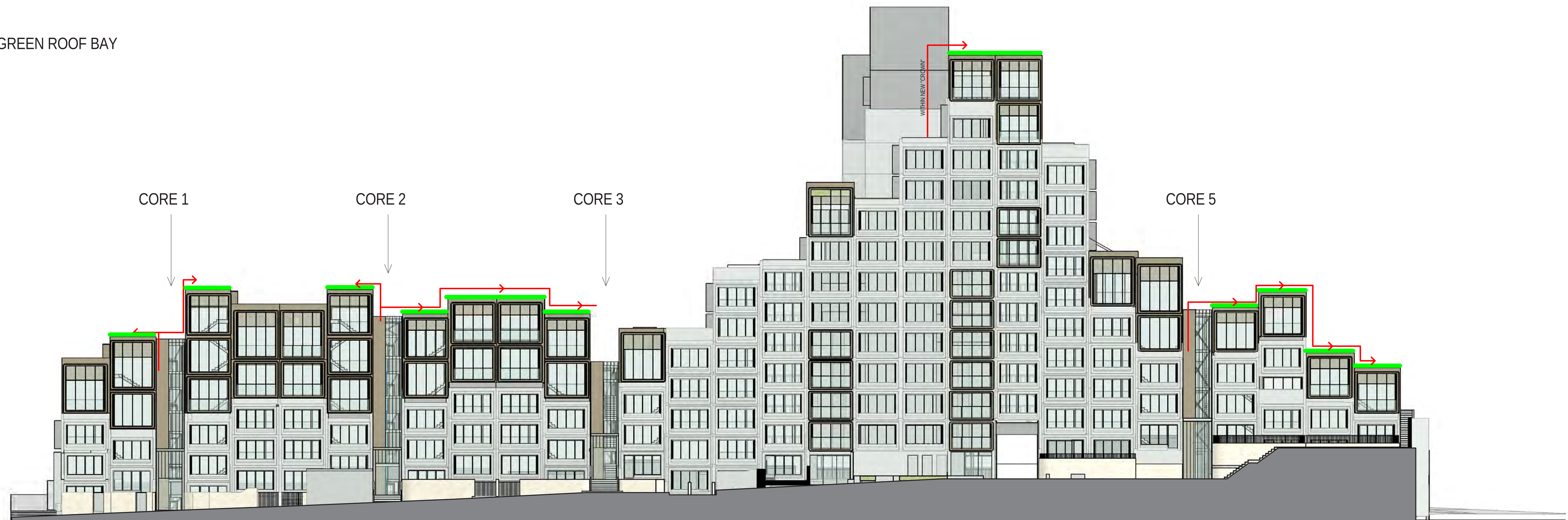
PROJECT

SIRIUS SITE, 2-60 CUMBERLAND ST, THE ROCKS

Podium Core - Rooftop Access and Maintenance



GREEN ROOF BAY



ISS.	AMENDMENT	DATE	BY
A	Revised SSDA (response to DPIE RFIs)	04.03.21	LB
B	Revised SSDA (response to Council Comments)	05.05.21	GD
C	Revised SSDA (response to Council Comments)	19.05.21	GD

IMPORTANT NOTES:

- Do not scale from drawings
- All discrepancies to be brought to the attention of the Landscape Architect
- Larger scale drawings and written dimensions take preference. All dimensions in mm unless otherwise stated.
- All true dimensions and R/Ls in metres.

Verify all dimensions on site before the commencement of any works.

Contractors shall locate and provide all services prior to construction.

All work shall be carried out in accordance with ASA, BCA and Local Government Regulations.

Structural Details shall be subject to Engineer.

Drainage & Water Feature Details shall be subject to Hydraulic Engineer.

Trademarks according to Landscape Drawings and Engineer

Architect

CLIENT	Sirius Developments Pty Ltd
SCALE	1:50

ARCHITECT	BVN
DRAWN	LB

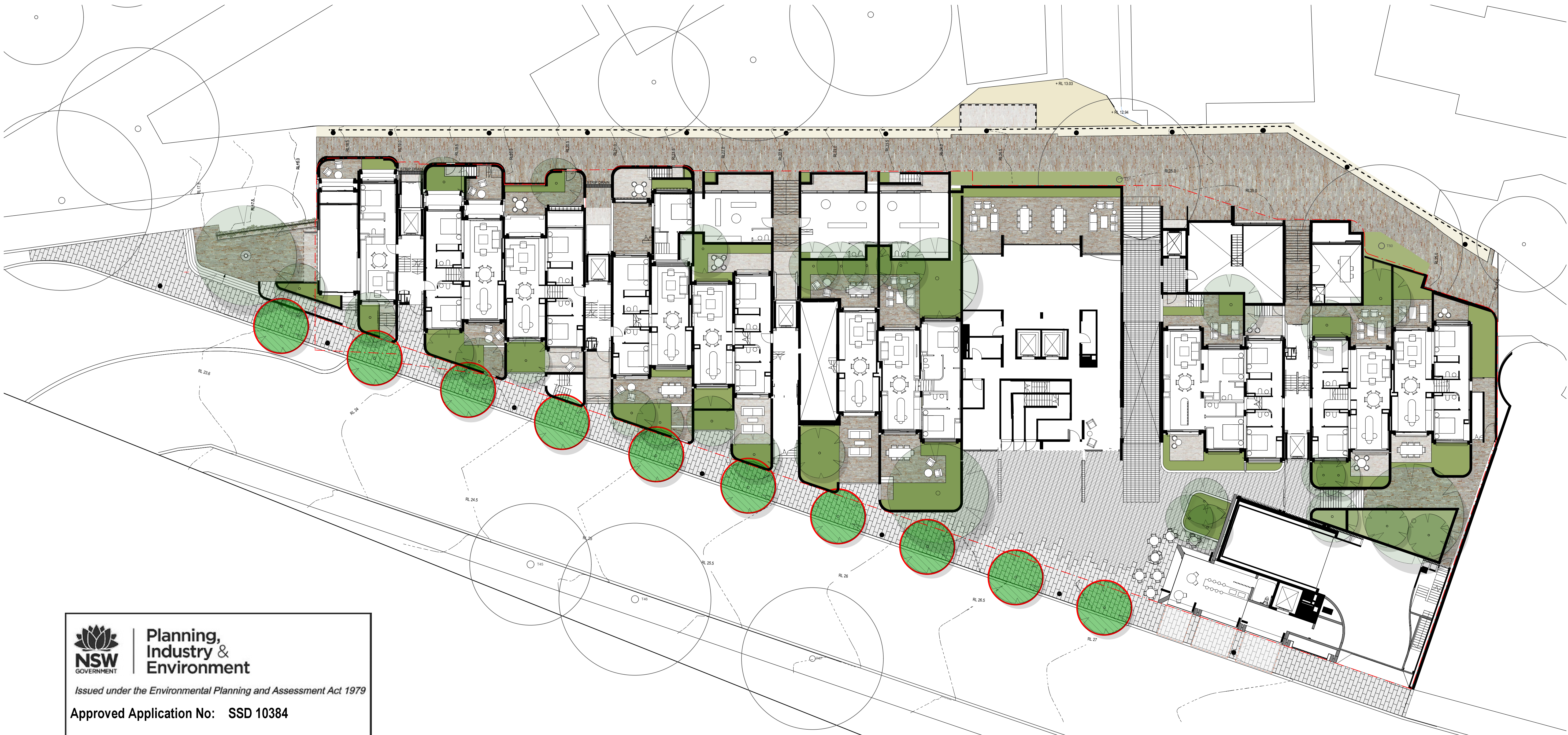
CHECKED LB
ISSUE SSDA

DWG. TITLE
ROOF GARDEN ACCESS METHODOLOGY

PROJECT
SIRIUS SITE, 2-60 CUMBERLAND ST, THE ROCKS

360 
Level 1, 1 Marys Place
Kerry Hills NSW 2010
+612 8332 3601
www.360.net.au
ABN: 90 146 901 322

1000



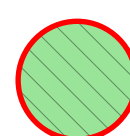
Planning,
Industry &
Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10384

Granted on: 18 June 2021

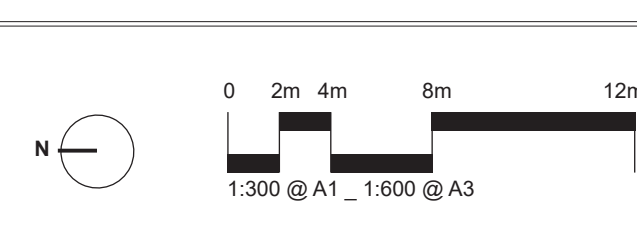
Signed: AW Sheet No: 79 of 88



Nyssa sylvatica (Black Tupelo)

Trees to be 200L in accordance with
NatSpec and planted to City of
Sydney Street Tree Masterplan
Specifications

ISS.	AMENDMENT	DATE	BY
A	Revised SSDA (response to Council Comments)	28.04.21	GD
B	Revised SSDA (response to Council Comments)	05.05.21	GD
C	Revised SSDA (response to Council Comments)	19.05.21	GD



IMPORTANT NOTES:
Do not scale from drawings.
All dimensions are to be taken to the centerline of the building footprint. All dimensions in mm unless otherwise stated.
All tree dimensions and RLs in meters.
Verify all dimensions on site before the commencement of any works.
Constructors shall ensure and protect all services prior to construction.
All work shall be carried out in accordance with AS/NZS 4820 and Local Government Regulations.
Revised Details shall be subject to Engineer's approval.
Drainage & Water Feature Details shall be subject to Hydrologist's Engineer's approval.
This Drawing is copyright to 360 Degrees.

CLIENT
Sirius
Developments
Pty Ltd

ARCHITECT
BVN
DRAWN
LB

CHECKED
LB
ISSUE
SSDA

DWG. TITLE
PROPOSED STREET TREE PLAN
PROJECT
SIRIUS SITE, 2-60 CUMBERLAND ST, THE ROCKS

Level 3, 3 Marys Place
Sydney Hills NSW 2151
P +61 (0) 2 9539 3801
W www.360.net.au
ABN: 60 146 801 382

L-DA-034

2-60 CUMBERLAND STREET, THE ROCKS CIVIL DOCUMENTATION



SOURCE : NEARMAP.COM.AU (©2020)

CIVIL DRAWING SCHEDULE	
DWG No.	DRAWING TITLE
SSDAC01.01	COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN
SSDAC01.11	SPECIFICATION NOTES
SSDAC02.01	CONCEPT SEDIMENT AND EROSION CONTROL PLAN
SSDAC02.11	SEDIMENT AND EROSION CONTROL DETAILS
SSDAC03.01	STORMWATER MANAGEMENT PLAN B2b-B2a
SSDAC03.02	STORMWATER MANAGEMENT PLAN B1b-B2a
SSDAC03.11	STORMWATER MANAGEMENT DETAILS
SSDAC03.21	STORMWATER LONGITUDINAL SECTION
SSDAC04.01	DETAILS



Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10384

Granted on: 18 June 2021

Signed: AW Sheet No: 80 of 88

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT		PROJECT	DRAWING TITLE	JOB NUMBER
1	ISSUED FOR REVIEW	JP	NN		31.07.20	SIRIUS DEVELOPMENTS PTY LTD		 Sydney Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100	SIRIUS SITE 2-60 CUMBERLAND STREET, THE ROCKS	CIVIL ENGINEERING PACKAGE	193308
2	ISSUED FOR DEVELOPMENT APPLICATION	MM	NN		31.08.20						
3	ISSUED FOR DEVELOPMENT APPLICATION	MM	NN		27.10.20						
						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED.	THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD	SCALE 1:2000 @ A1			
											

Found : wire-mesh-projects\2019 J005\193306 - Sirius Building\2-Drawing\2-CIVIL\2-CAD FILES\SSDA\193306_3SDAC01.01.dwg

PILOTED BY : MICHAEL MIAI

0107'20.61 : 0107'11.24

NOTE: ALL CIVIL ENGINEERING CONSTRUCTION WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CITY OF SYDNEY DEVELOPMENT GUIDELINES .THE FOREMENTIONED GUIDELINES INCLUSIVE OF ALL SPECIFICATIONS TAKE PRECEDENCE OVER NOTES PROVIDED BELOW.

STORMWATER DRAINAGE	
1.	ALL DRAINAGE LINES SHALL BE UPVC (CLASS SN4) SEWER GRADE DRAINAGE PIPE, U.N.O.
2.	ALL DRAINAGE LINES SHALL BE LAID AT 1% MIN. FALL, UNO.
3.	ALL LEVELS ARE AUSTRALIAN HEIGHT DATUM (AHD).
4.	ALL DOWNPIPES GUTTERS TO BE DESIGNED IN ACCORDANCE WITH AS/NZS 3500.3.2 ~ 2003 'STORMWATER' DRAINAGE.
5.	THE STORMWATER DRAINAGE DESIGN HAS BEEN CARRIED OUT IN ACCORDANCE WITH AS/NZS 3500.3.2-2003 'STORMWATER' DRAINAGE.
6.	ANY VARIATIONS TO THE NOMINATED LEVELS SHALL BE REFERRED TO ENGINEER IMMEDIATELY.
7.	SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS & EMBANKMENTS, WITH THE LINES FEEDING INTO THE 'STORMWATER DRAINAGE SYSTEM.
8.	ALL GRATES TO BE GALVANISED STEEL WITH HINGES AND CHILD PROOF LOCK.
9.	ALL GRATES TO BE HEEL SAFE WITHIN AGED CARE DEVELOPMENTS. THE STORMWATER DRAINAGE IS DESIGNED IN ACCORDANCE WITH CITY OF SYDNEY ~ A4 STORMWATER DRAINAGE DESIGN

GENERAL NOTES	
THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.	
ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES, UNO (UNLESS NOTED OTHERWISE).	
NO DIMENSION SHALL BE OBTAINED BY SCALING THE DRAWINGS.	
ALL LEVELS AND SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF THE WORK.	
DETAIL SURVEY DATA WAS SUPPLIED BY LTS LOCKLEY REGISTERED SURVEYORS, DRAWING DATED 06.07.17 AND UTILITY MAPPING, DATED 20.05.20	
EXISTING SERVICES WHERE SHOWN HAVE BEEN PLOTTED FROM SUPPLIED DATA AND SUCH THEIR ACCURACY CAN NOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK.	
ON COMPLETION OF STORMWATER INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS, UNLESS DIRECTED OTHERWISE.	

ALL STORMWATER MANAGEMENT MEASURES SHOWN ON THIS DRAWING HAVE BEEN PREPARED FOR DEVELOPMENT APPLICATION PURPOSES TO DEMONSTRATE FEASIBILITY. ALL MEASURES WILL BE SUBJECT TO DETAIL DESIGN AT THE CONSTRUCTION CERTIFICATE STAGE AND MAY BE SUBJECT TO VARIATION PROVIDED THAT THE DESIGN INTENT IS MAINTAINED.

DESIGN SUMMARY		
TOWN CENTRE = CITY OF SYDNEY CATCHMENT NAME = CITY AREA CATCHMENT		
WATER QUALITY:		
MUSIC MODEL SUMMARY (REFER NORTHROP REPORT FOR FURTHER DETAILS -IF REPORT PROVIDED).		
WATER QUALITY CHAMBER 1 MUSIC MODEL SUMMARY:		
SOURCE NODE	CATCHMENT	AREA
URBAN	ROOF AREA	1421m ²
URBAN	PAVED AREA	953m ²
URBAN	PLANTER	111m ²
URBAN	TRUCK DRIVEWAY	137m ²
		TOTAL 2622m ²

WATER QUALITY CHAMBER 2 MUSIC MODEL SUMMARY:		
SOURCE NODE	CATCHMENT	AREA
URBAN	ROOF AREA	418m ²
URBAN	PAVED AREA	569m ²
URBAN	PLANTER	38m ²
		TOTAL 1025m ²

TREATMENT NOTES:		
• OCEAN PROTECT 690mm PSORB STORMFILTERS (x16)		
TREATMENT STANDARDS:		
POLLUTANT	REDUCTION STANDARDS	REDUCTION ACHIEVED
GROSS POLLUTANTS	90%	100%
TOTAL SUSPENDED SOLIDS	85%	85.3%
TOTAL PHOSPHORUS	60%	78.4%
TOTAL NITROGEN	45%	51.0%

MUSIC MODEL PARAMETERS IN ACCORDANCE WITH SYDNEY WATER AND CITY OF SYDNEY GUIDELINES.	
POLLUTANT REMOVAL DESIGN CRITERIA ADOPTED FROM WESTERN SYDNEY GROWTH CENTRES ~ STORMWATER GUIDANCE FOR PRECINCT PLANNING (PREPARED BY DEC NOV 2006).	

STORMWATER DRAINAGE

- ALL PIPES SHALL BE CLASS 2 RUBBER-RING JOINTED RCP U.N.O. WHERE uPVC PIPES HAVE BEEN SPECIFIED, THE FOLLOWING CLASS PIPEWORK IS TO BE ADOPTED U.N.O. ø100mm OR LESS TO BE CLASS 'SN10' AND ABOVE ø100mm TO BE CLASS 'SN8'. CLASS 4 PIPES ARE TO BE USED WHERE COVER OVER THE PIPE IS BELOW 600mm AND BENEATH A TRAFFICABLE PAVEMENT.
- uPVC STORMWATER LINES PASSING UNDER FLOOR SLABS TO BE CONCRETE ENCASED.
- FRC PIPES EQUAL TO THAT OF THE STEEL REINFORCED CONCRETE PIPE CLASS SPECIFIED ON THE DRAWINGS MAY BE USED SUBJECT TO APPROVAL FROM THE SUPERINTENDENT.
- ALL PIPE ARE TO BE LAID AT 1.0% MIN GRADE U.N.O.
- COVERS
 - USE HOT DIPPED GALVANISED COVERS AND GRATES COMPLYING WITH RELEVANT COUNCIL AND AUSTRALIAN STANDARDS.
 - ALL COVERS AND GRATES TO BE POSITIONED IN A FRAME AND MANUFACTURED AS A UNIT.
 - ALL COVERS AND GRATES TO BE FITTING WITH POSITIVE COVER LIFTING KEYS
 - OBTAIN SUPERINTENDENTS APPROVAL FOR THE USE OF CAST IRON SOLID COVERS AND GRATES. CAST IRON SOLID COVERS (IF APPROVED) TO CONSIST OF CROSS-WEBBED, CELLULAR CONSTRUCTION WITH THE RIBS UPPERMOST TO ALLOW INFILLING WITH CONCRETE. INSTALL POSITIVE COVER LIFTING KEYS AND PLASTIC PLUGS.
 - UNLESS DETAILED OR SPECIFIED OTHERWISE, COVERS AND GRATES TO BE CLASS 'D' IN VEHICULAR PAVEMENTS AND CLASS 'B' ELSEWHERE.
 - ALL GRATED TRENCH DRAINS SHOULD BE 'CLASS D' CAST IRON WITHIN VEHICULAR PAVEMENTS AND CLASS 'B' HEEL SAFE WITHIN PEDESTRIAN PAVEMENTS.
- ALL PIPE BENDS, JUNCTIONS, ETC ARE TO BE PROVIDED USING PURPOSE MADE FITTINGS OR STORMWATER PITS.
- ALL CONNECTIONS TO EXISTING DRAINAGE STRUCTURES SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
- ENSURE PIPEWORK DOES NOT PROTRUDE BEYOND THE INSIDE FACE OF THE PIT WALL. PIPEWORK IS TO FINISH FLUSH WITH INTERNAL WALL (UNLESS OTHERWISE NOTED OR DETAILED). CONNECTION TO BE RENDERED AND MADE NEAT ON THE INSIDE FACE OF THE PIT
- THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
- U.N.O. MATERIAL USED FOR BEDDING OF PIPES SHALL BE APPROVED NON-COHESIVE GRANULAR MATERIAL HAVING HIGH PERMEABILITY AND HIGH STABILITY WHEN SATURATED AND FREE OF ORGANIC AND CLAY MATERIAL.
- BEDDING SHALL BE U.N.O TYPE HS2 UNDER ROADS AND H2 UNDER GENERAL AREAS IN ACCORDANCE WITH CURRENT RELEVANT INDUSTRY STANDARDS AND GUIDELINES.
- THE CONTRACTOR SHALL ENSURE AND PROTECT THE INTEGRITY OF ALL STORMWATER PIPES DURING CONSTRUCTION. ANY AND ALL DAMAGE TO THESE PIPES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE SUPERINTENDENT AND AT NO EXTRA COST TO THE CONTRACT.
- NOTE THAT THE PIT COVER LEVEL NOMINATED IN GUTTERS ARE TO THE INVERT OF THE GUTTER WHICH ARE 40mm LOWER THAN THE PAVEMENT LEVEL AT LIP OF GUTTER. REFER KERB DETAILS FOR CONFIRMATION.

SUBSOIL DRAINAGE	
13. ø100mm SUBSOIL DRAINAGE LINES WITH NON-WOVEN GEOTEXTILE FILTER SOCK SURROUND SHALL BE CONNECTED TO A STORMWATER DRAINAGE PIT (AT MIN 1% LONGITUDINAL GRADE) AND PROVIDED IN THE FOLLOWING LOCATIONS; 13.1. THE HIGH SIDE OF PROPOSED TRAFFICKED PAVEMENT AREAS. 13.2. ALL PLANTER AND TREE BEDS PROPOSED ADJACENT TO PAVEMENT AREAS 13.3. BEHIND RETAINING WALLS (IN ACCORDANCE WITH RETAINING WALL DETAILS). 13.4. UPSTREAM OF STORMWATER PITS 13.5. BENEATH FLEXIBLE PAVEMENT ALONG A SAG PROFILE 13.6. ALL OTHER AREAS SHOWN ON DRAWINGS. 13.7. CONTRACTOR IS TO MAKE ALLOWANCE IN BOTH TENDER AND CONSTRUCTION COSTING TO ALLOW FOR SUBSURFACE DRAINAGE BEHIND ALL RETAINING WALLS / ABOVE LOCATIONS AND TO MAKE CONNECTION TO STORMWATER SYSTEM.	14. WHERE SUBSOIL DRAINAGE PASSES BENEATH BUILDINGS / PAVED AREAS AND/OR PAVEMENTS, CONTRACTOR TO ENSURE ø100mm CLASS 'SN10' uPVC DRAINAGE LINE IS USED AND THAT PROPRIETARY FITTINGS ARE USED TO RECONNECT SUBSOIL DRAINAGE LINE.
15. THE CONTRACTOR SHALL INSTALL INSPECTION OPENINGS / CLEAROUTS TO ALL SUBSOIL DRAINAGE LINES AND DOWNPIPE LINES AS SPECIFIED ON DRAWINGS AND IN ACCORDANCE WITH COUNCIL SPECIFICATIONS, HOWEVER AS A MINIMUM THEY ARE TO BE PLACED AT MAXIMUM 30m CENTRES AND AT ALL UPSTREAM ENDPOINTS.	16. PROVIDE 3.0m LENGTH OF ø100 SUBSOIL DRAINAGE LINE WRAPPED IN NON-WOVEN GEOTEXTILE FILTER FABRIC TO THE UPSTREAM SIDE OF STORMWATER PITS, LAID IN STORMWATER PIPE TRENCHES AND CONNECTED TO DRAINAGE PIT.
17. IN AREAS WHERE DUMPED / HAND PLACED ROCK IS USED AS A MEANS OF SCOUR PROTECTION, CONTRACTOR IS TO EXCAVATE A MINIMUM OF 100mm FROM PROPOSED SURFACE, LEVEL AND COMPACT SUBGRADE AS SPECIFIED. ROCK TO THEN BE PLACED ON GEOTEXTILE FILTER FABRIC A34.	18. THE CONTRACTR IS TO ENSURE THAT A MINIMUM 150mm CLEARANCE IS PROVIDED BETWEEN THE INTERNAL FACE OF PIPE AND ADJACENT INTERNAL PIT WALLS
19. WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN 50mm CONCRETE BED (OR 75mm THICK BED OF 12mm BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK. (E.G. CLEAN 5-12mm AGGREGATE)	

PRECAST STORMWATER PITS

- THE USE OF PRE-CAST STORMWATER DRAINAGE PITS IS NOT ACCEPTED WITHOUT CONFIRMATION BETWEEN NORTHROP ENGINEERS AND THE CONTRACTOR REGARDING QUALITY CONTROL AND CERTIFICATION OF FINISHES.
- REFER MANUFACTURERS SPECIFICATIONS FOR INSTALLATION GUIDELINES.
- PRECAST PIT TO BE PLACED ON MINIMUM 150mm THICK CONCRETE PAD AND BED MINIMUM 50mm WHILST CONCRETE IS STILL PARTIALLY WET.
- ENSURE PENETRATION IS CORED THROUGH PIT FACE TO ALLOW CONNECTION AND IS NOT OVERSIZED.
- ENSURE A SEALED FINISH AT PIPE CONNECTIONS BY HAND-APPLYING MINIMUM 150mm THICK CONCRETE AROUND PIPE AT THE EXTERNAL FACE OF THE PIT. ENSURE CONCRETE DOES NOT AFFECT THE INTEGRITY OF THE SUBSOIL DRAINAGE CONNECTED TO THE PIT.
- ENSURE A SMOOTH SEALED FINISH AT PIPE CONNECTIONS BY HAND APPLYING CONCRETE AROUND THE PIPE ON THE INTERNAL FACE OF THE PIT TO FILL IN ANY VOIDS CREATED WHEN PENETRATION FOR THE PIPE WAS CORED.
- ENSURE PIPEWORK DOES NOT PROTRUDE BEYOND THE INSIDE FACE OF THE PIT WALL. PIPEWORK IS TO FINISH FLUSH WITH INTERNAL WALL (UNLESS OTHERWISE NOTED OR DETAILED). CONNECTION TO BE RENDERED AND MADE NEAT ON THE INSIDE FACE OF THE PIT.
- ENSURE THE OUTLET PIPE IS CONNECTED AT THE INVERT LEVEL OF THE PIT TO DRAIN. ALTERNATIVELY FILL THE BASE OF THE PIT WITH MASS CONCRETE (MIN 50mm THICK) OR APPROVED GROUTING COMPOUND (LESS THAN 50mm THICK) TO DRAIN.
- PROVIDE CONCRETE BENCHING TO SIDES OF PIT TO SUIT PIPE DIAMETER. HEIGHT TO MATCH MINIMUM 1/3 PIPE DIAMETER.

SEDIMENT AND SOIL EROSION

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



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Approved Application No: SSD 10384

Granted on: 18 June 2021

Signed: AW

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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT
1	ISSUED FOR REVIEW	JP		NN	31.07.20	SIRIUS DEVELOPMENTS PTY LTD
2	ISSUED FOR DEVELOPMENT APPLICATION	MM		NN	31.08.20	
3	ISSUED FOR DEVELOPMENT APPLICATION	MM		NN	27.10.20	
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NOT TO SCALE

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PROJECT
SIRIUS SITE 2-60 CUMBERLAND STREET, THE ROCKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE SPECIFICATION NOTES

JOB NUMBER
193308
DRAWING NUMBER
SSDAC01.11
REVISION
3
DRAWING SHEET SIZE = A1

VERIFIER:

JOB MANAGER: N. WACKER

DESIGNED: N. WACKER

DRAWN: J. TAI

Found : \\ns-films\project\2019 Jobs\193308 - Sirius Building\0-Drawing\0-Northrop\C-Civil\SSDAC01-0-AD FILES\SSDA193308_SSDAC01.11.dwg
Plotted By : MICHAEL MAI

Date :15.02.2018 11:24 AM



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Sheet No: 82 of 88

INSTALL AND MAINTAIN DROP INLET
SEDIMENT TRAPS TO EXISTING AND
PROPOSED PITS.

INSTALL TEMPORARY SITE PERIMETER
SEDIMENT FENCE AND MAINTAIN WITH
DUST PREVENTION CLOTH.

INDICATIVE LOCATION OF TEMPORARY SITE
STOCKPILE. PROVIDE SEDIMENT FENCE TO
DOWNSTREAM SIDE. COVER WHEN NOT IN
USE.

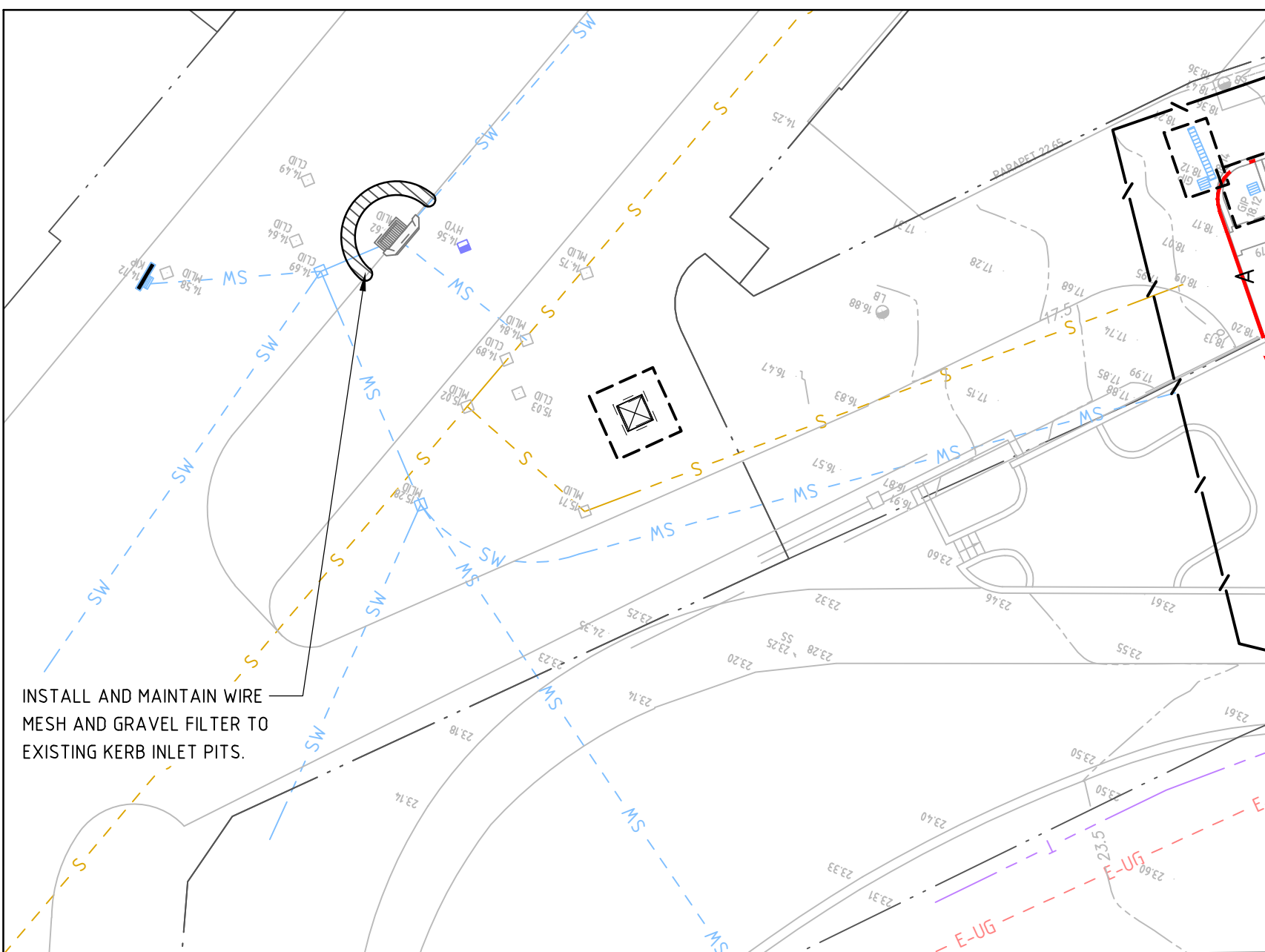
LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EXISTING CONTOURS
- SEDIMENT FENCE
- SECURITY FENCE
- WIRE MESH AND GRAVEL SEDIMENT FILTER
- DROP INLET SEDIMENT TRAP
- STOCKPILE

GENERAL NOTES:

- REFER SPECIFICATIONS NOTES FOR SEDIMENT AND SOIL EROSION CONTROL GENERAL REQUIREMENTS.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
- ALL SEDIMENT AND SOIL EROSION CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH THE 'BLUE BOOK'. CONTRACTOR TO ENSURE THESE MEASURES ARE IN PLACE AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION WORKS.
- CONTRACTOR TO PROVIDE 'WIRE MESH AND GRAVEL SEDIMENT FILTER' TO ALL PAVED / ROAD AREAS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
- CONTRACTOR TO PROVIDE 'GEOTEXTILE INLET FILTER TRAPS' TO ALL STORMWATER DRAINAGE INLETS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.

INSET A



INSTALL AND MAINTAIN WIRE
MESH AND GRAVEL FILTER TO
EXISTING KERB INLET PITS.

NOT FOR CONSTRUCTION

DESIGNED: J.TAI
DRAWN: J.TAI
JOB MANAGER: N. MACKER
VERIFIER: N. MACKER
FOR CONTINUATION REFER TO INSET A

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
1	ISSUED FOR REVIEW	JP		NN	31.07.20
2	ISSUED FOR DEVELOPMENT APPLICATION	MM		NN	31.08.20
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CLIENT	SIRIUS DEVELOPMENTS PTY LTD
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ARCHITECT	
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Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

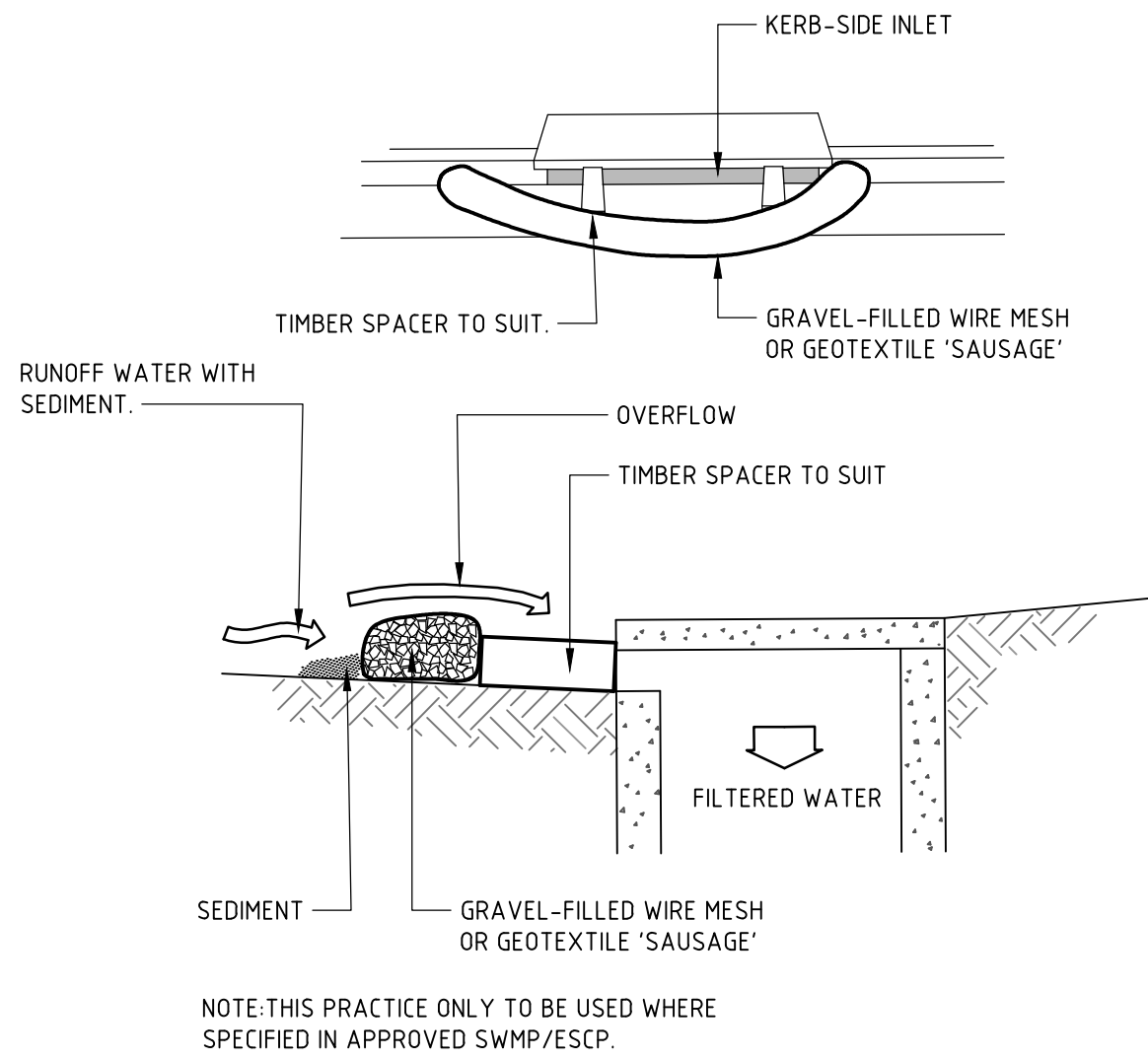
PROJECT	SIRIUS SITE
2-60 CUMBERLAND STREET, THE ROCKS	

DRAWING TITLE	CIVIL ENGINEERING PACKAGE
	CONCEPT SEDIMENT AND EROSION CONTROL PLAN

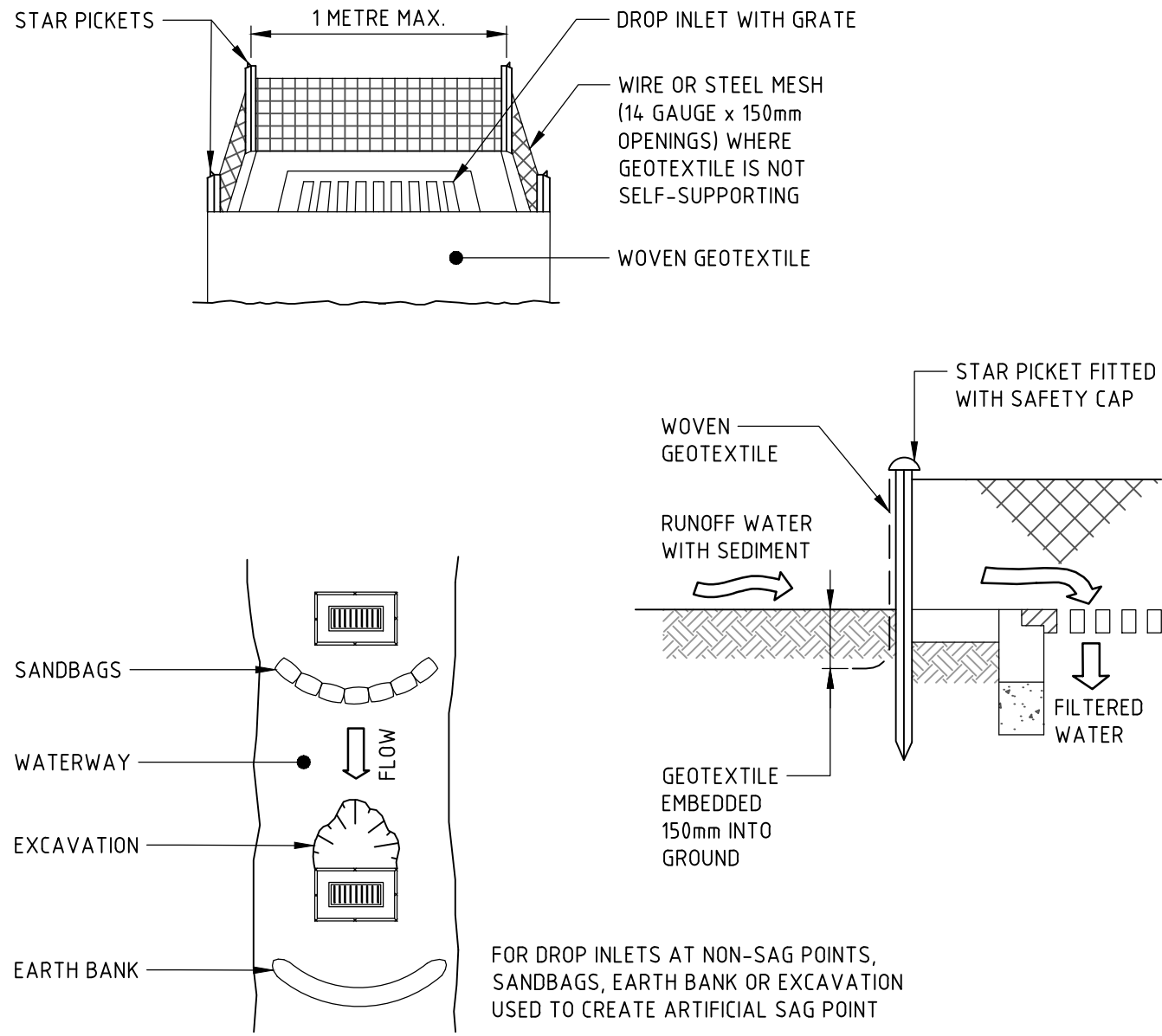
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REVISION	3
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Printed By: MICHAEL MAI
Date: 15.02.2018 11:24 AM

DRAWN: J.TAI
DESIGNED: N. NAICKER
JOB MANAGER: N. NAICKER
VERIFIER:



WIRE MESH AND GRAVEL SEDIMENT FILTER



GEOTEXTILE INLET FILTER TRAPS

CONSTRUCTION NOTES

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

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.



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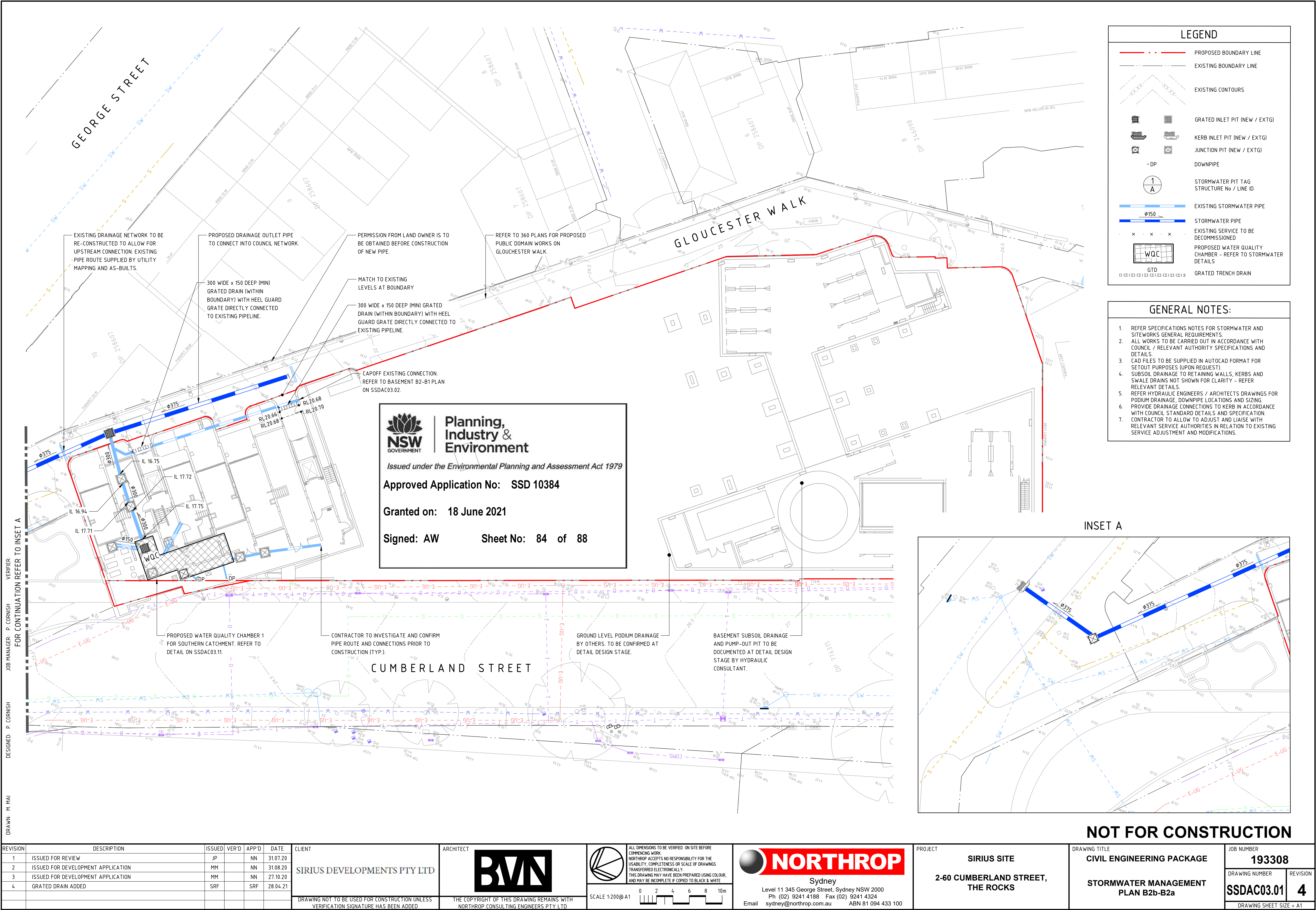
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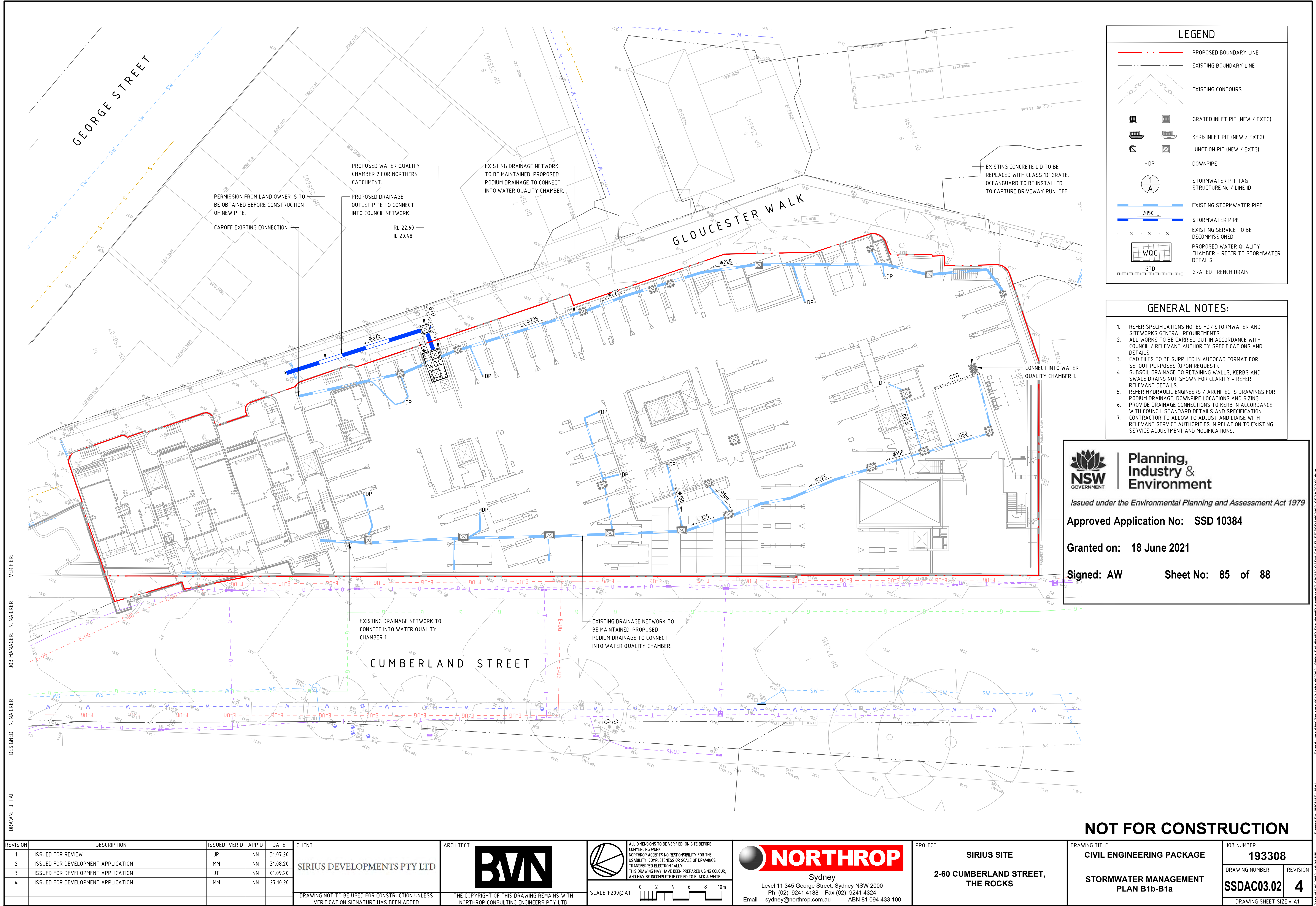
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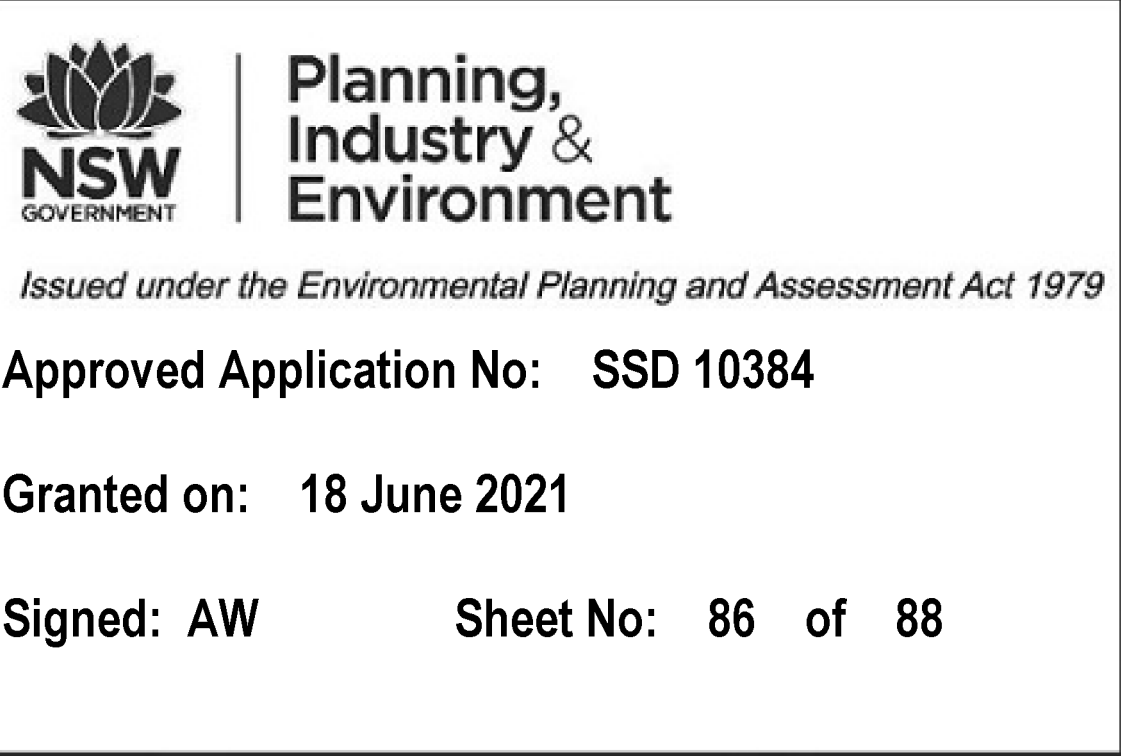
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2	ISSUED FOR DEVELOPMENT APPLICATION	MM		NN	31.08.20								DRAWING NUMBER SSDAC02.11	REVISION 3
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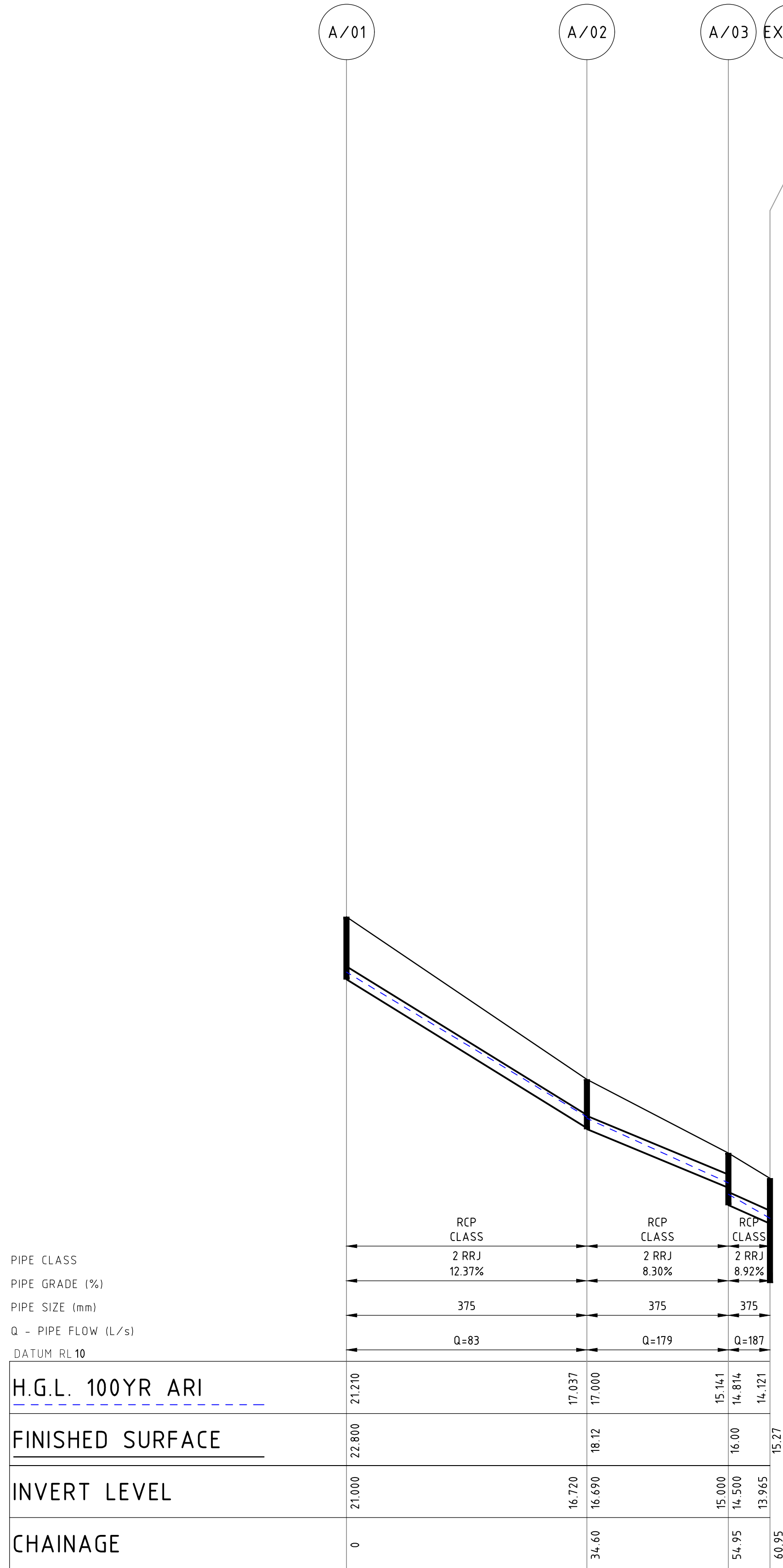
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2	ISSUED FOR DEVELOPMENT APPLICATION	MM	NN		31.08.20						
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PILOTED BY : MICHAEL MIAI

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DRAWN: J.TAI
DESIGNED: N. NAICKER
JOB MANAGER: N. NAICKER
VERIFIER:



STORMWATER LONGITUDINAL SECTION (100YR)
HOR: 1:500 VER: 1:100

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C03.01



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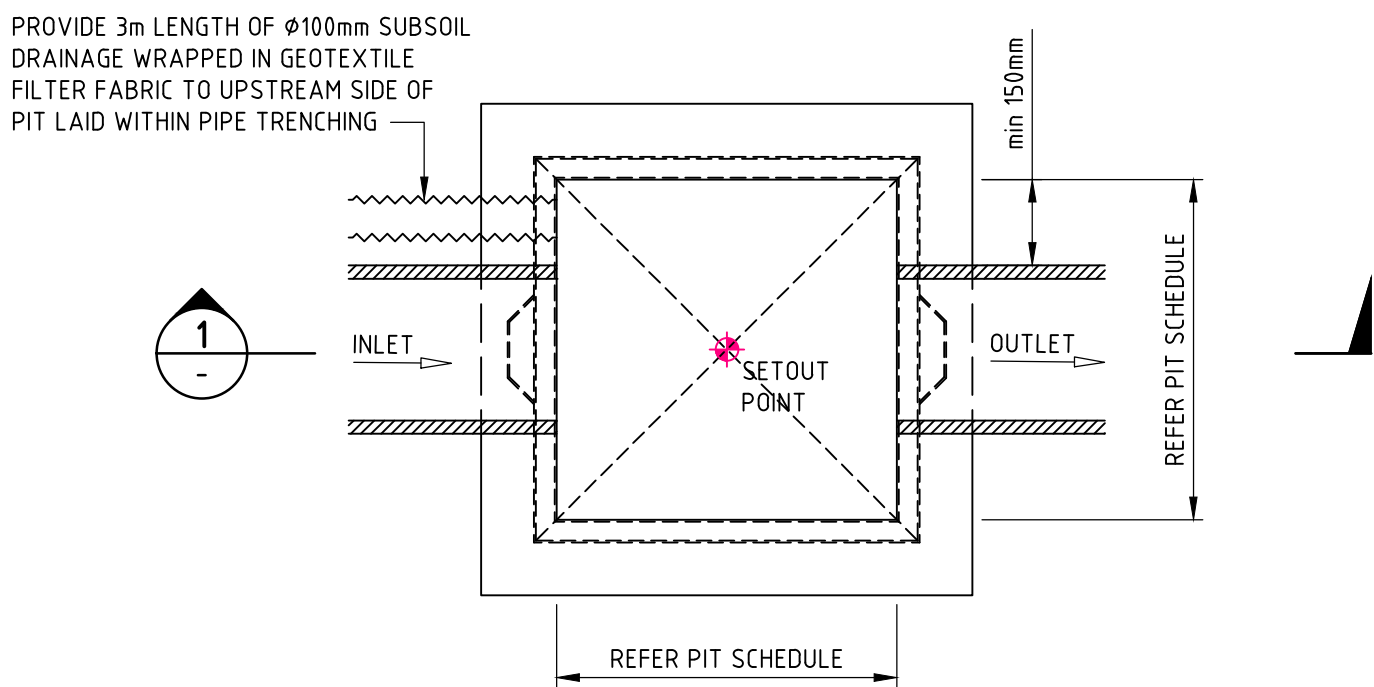
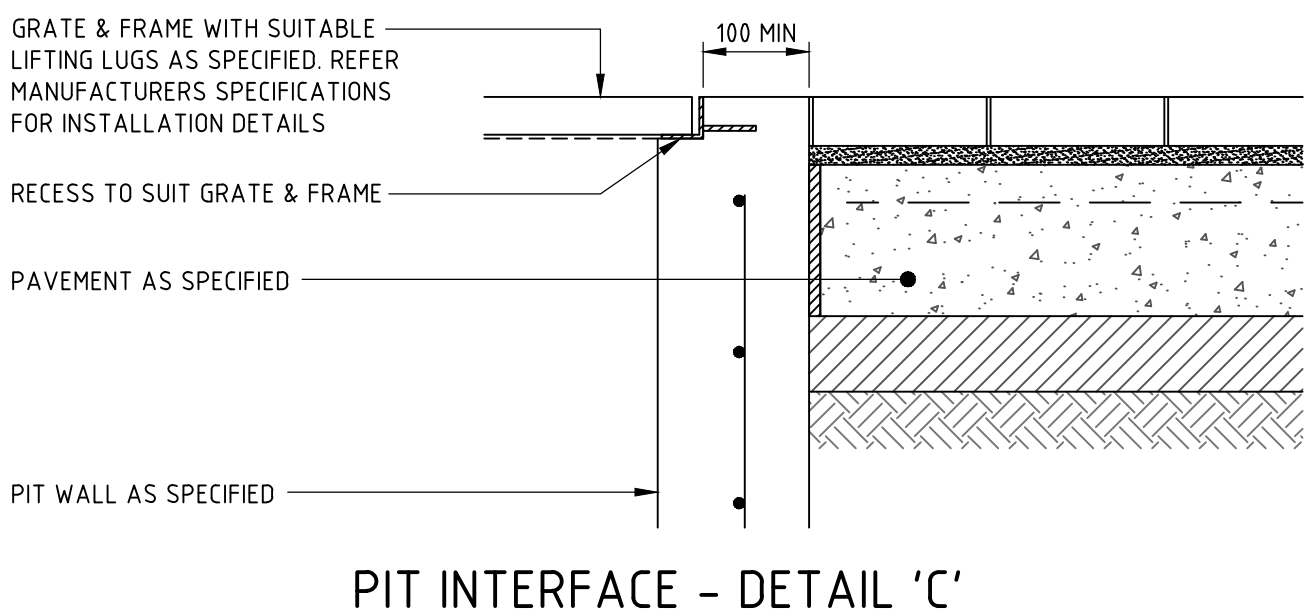
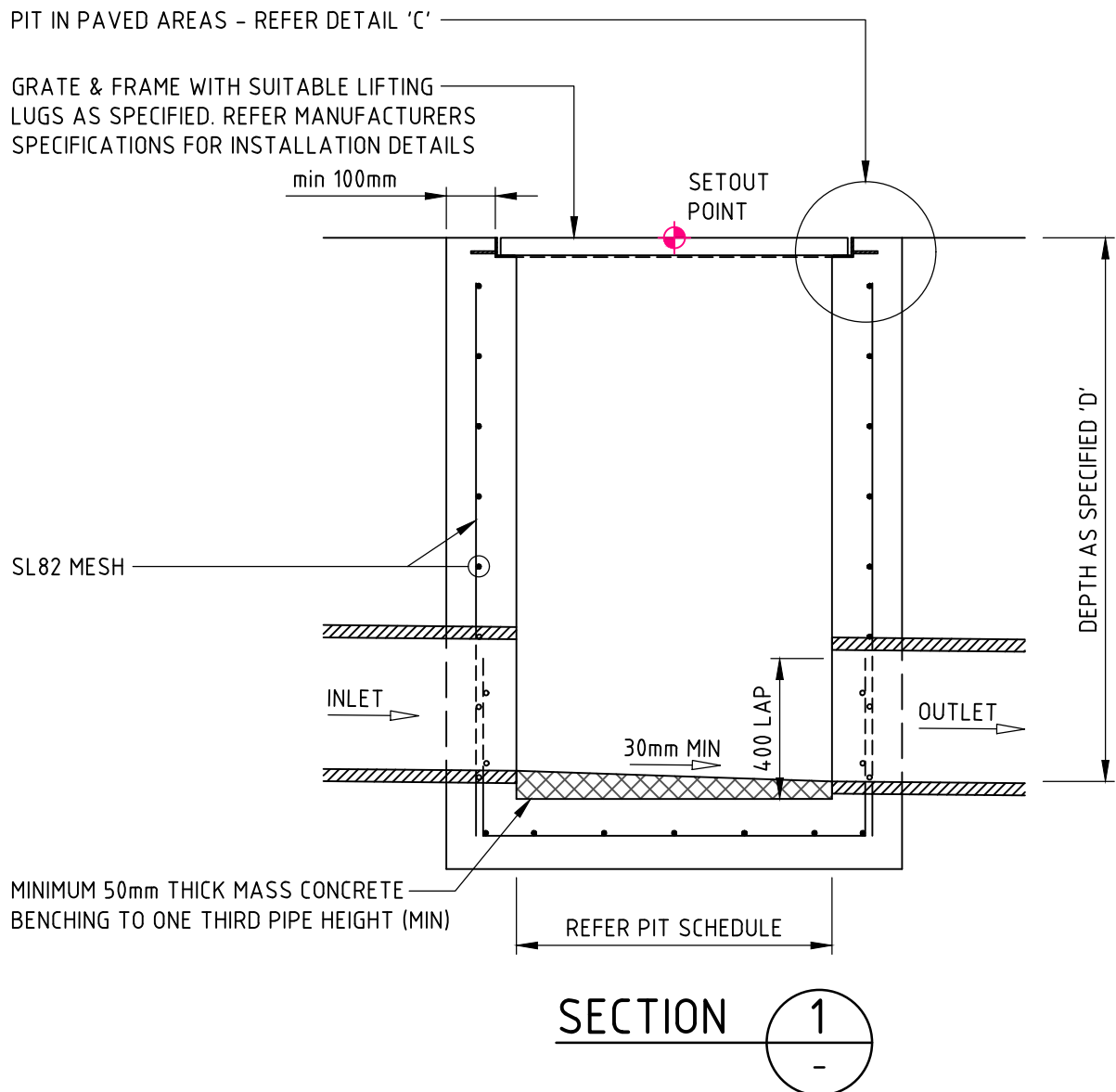
Approved Application No: SSD 10384

Granted on: 18 June 2021

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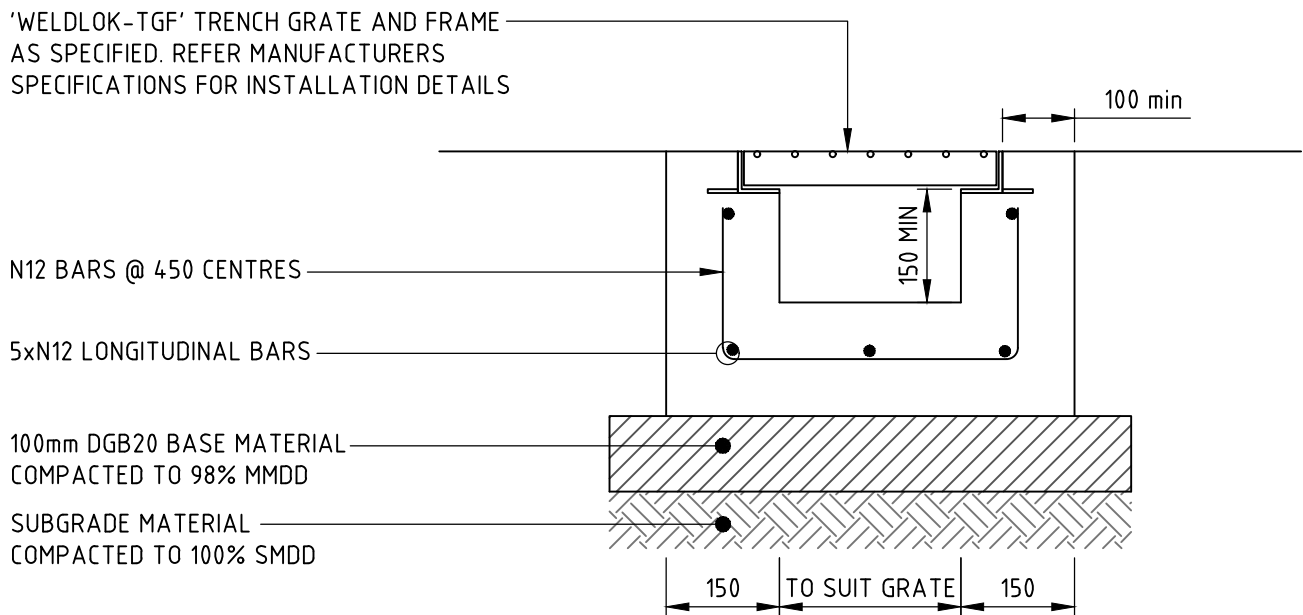
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2	ISSUED FOR DEVELOPMENT APPLICATION	MM		NN	27.10.20							
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PLAN
SURFACE INLET 'SIP' / JUNCTION PIT 'JP'

PIT STRUCTURE TO BE 200mm THICK UNLESS SHOWN OTHERWISE. DRILL AND EPOXY PLASTIC PROPRIETARY STEP IRONS IN ACCORDANCE WITH AUSTRALIAN STANDARDS AND MANUFACTURERS SPECIFICATIONS (PITS > 1000mm DEPTH).
REFER PIT INTERFACE DETAIL 'F' FOR CORNER REINFORCEMENT



GRADED TRENCH DRAIN 'GTD'

GRADED TRENCH DRAIN TO HAVE MINIMUM 150mm CLEARANCE AND 1% LONGITUDINAL FALL.
GRATE CLASS TO BE CLASS 'B' HEELSAFE IN PEDESTRIAN AREAS AND CLASS 'D' IN TRAFFICKED AREAS UNLESS NOTED OTHERWISE ON PLAN



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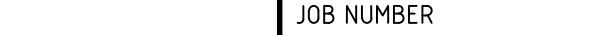
VERIFIER:

JOB MANAGER: N. NAICKER

DESIGNED: N. NAICKER

DRAWN: J. TAI

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2	ISSUED FOR DEVELOPMENT APPLICATION	MM		NN	31.08.20								DRAWING NUMBER SSDAC04.01	REVISION 3
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