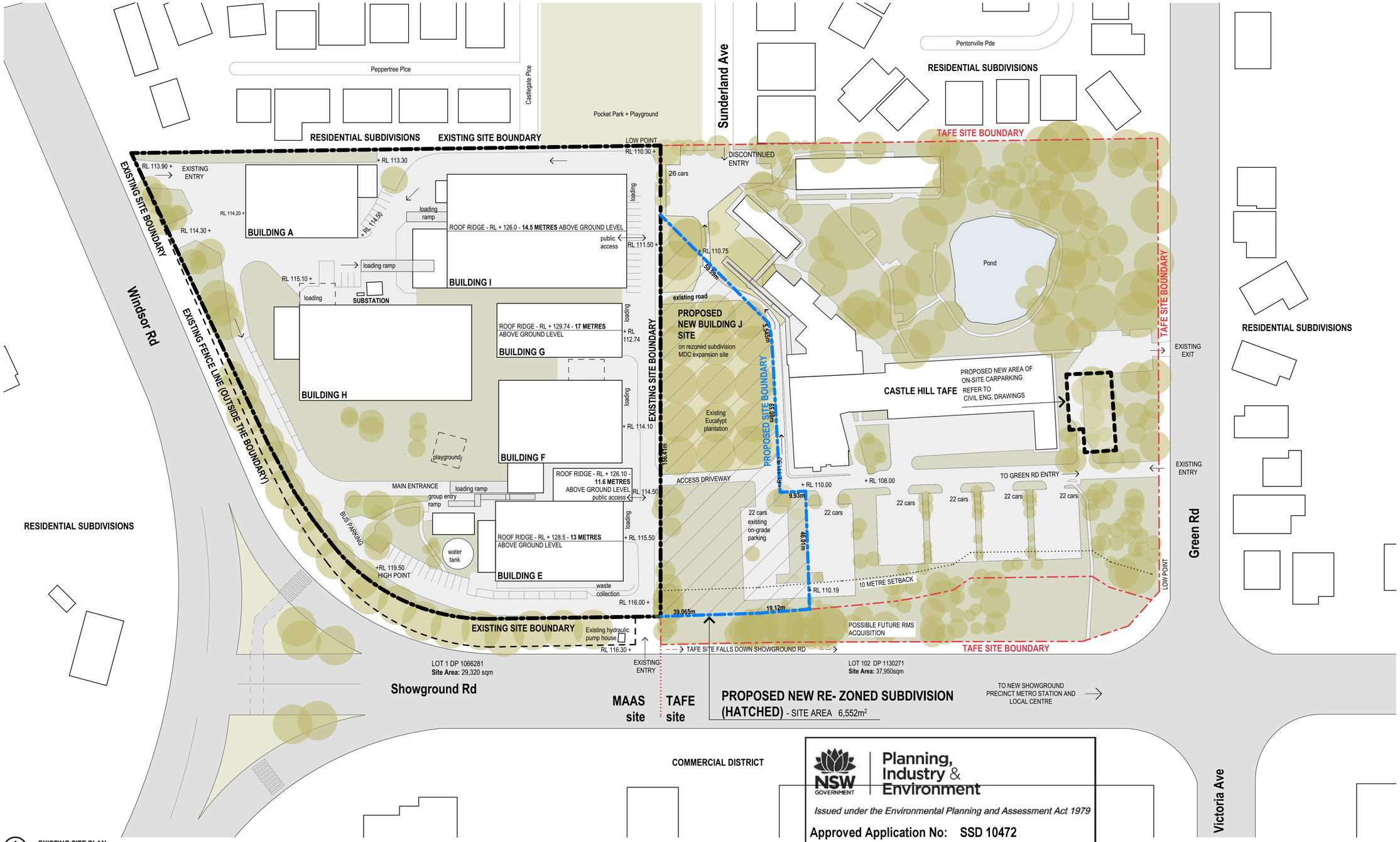

1 EXISTING SITE PLAN
1:750

NSW GOVERNMENT | Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW Sheet No: 1 of 28

REV	DESCRIPTION	DATE
01	OPTION 3D - Preliminary Issue	07/12/18
02	OPTION 3F - Costing Issue	13/02/19
03	PRELIMINARY PLANNING APPLICATION ISSUE	08/05/19
04	PLANNING APPLICATION ISSUE	30/07/19
05	PRELIMINARY SSDA DRAWING ISSUE	15/05/2020
06	Updated for SSDA Submission	10/07/2020
07	SSDA ISSUE	07/08/2020

REV	DESCRIPTION	DATE

TITLE
STRUCTURAL / CIVIL / SERVICES CONSULTANTS
NORTHROP

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NORTH

DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY. VERIFY ALL DIMENSIONS ON SITE.
REFER ANY DISCREPANCIES TO THE ARCHITECT.

PROJECT SPONSOR
NSW GOVERNMENT Create NSW | Arts, Screen & Culture

DELIVERY AGENCY
NSW GOVERNMENT Public Works Advisory

CLIENT
Museum of Applied Arts & Sciences

PROJECT TITLE
BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

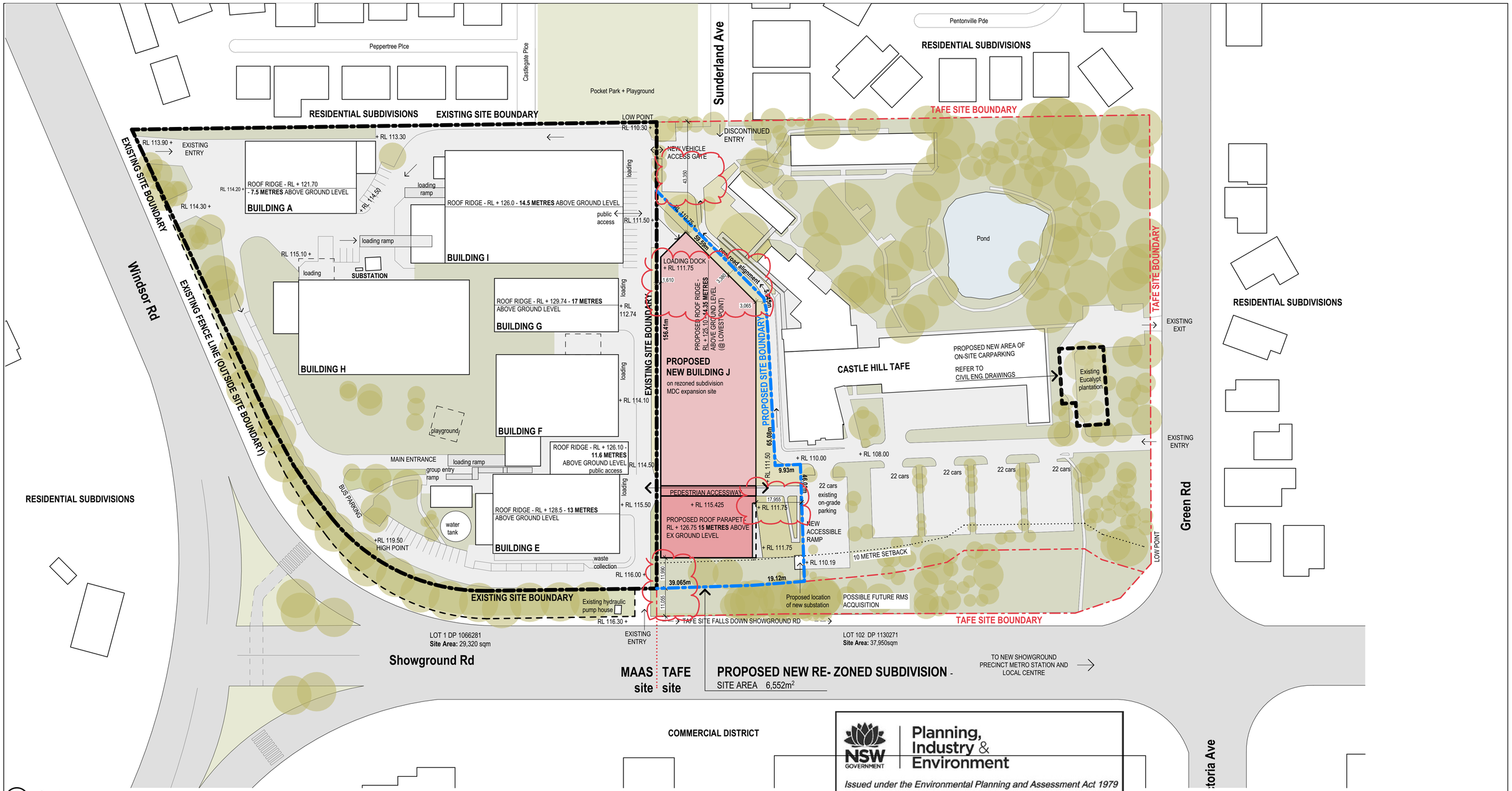
SCALE CHECK 5 10

lahznimmo architects
Suite 404, Flourmill Studios
3 Gladstone St
Newtown NSW 2042 Australia
T 02 9550 5200
F 02 9550 5233
www.lahznimmo.com

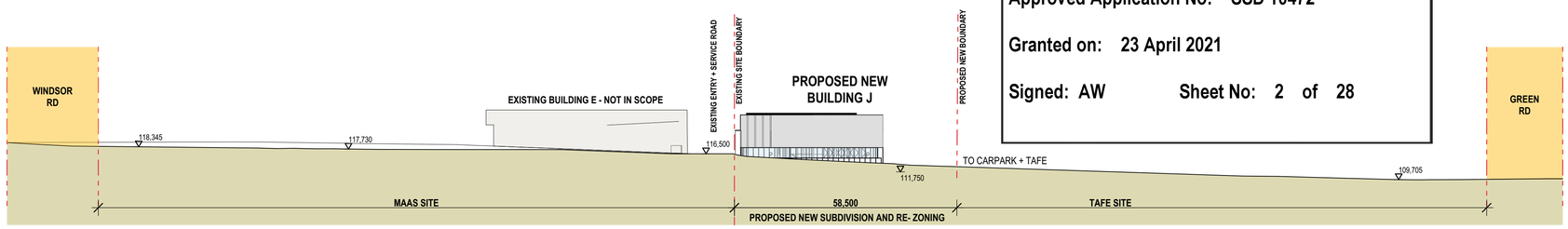
TITLE
EXISTING SITE PLAN

REVIEW	DIRECTOR SIGNATURE	DATE
TENDER		
CONST		

DRAWN	PLOT DATE	SCALE @A1	SCALE @A3
BC / BG	19/01/2021	1:750	1:500
CHECKED	PROJECT NO.	DRAWING NO.	REV. NO
AN	18-14	A-DA-1100	07



1 SITE PLAN
1:750



2 STREET ELEVATION
1:750

Planning, Industry & Environment
NSW GOVERNMENT

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW Sheet No: 2 of 28

REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE
01	OPTION 3E - Preliminary Issue	23/01/19	12	SSDA ISSUE	07/08/2020
02	OPTION 3E - Updated Site Plan	05/02/19			
03	OPTION 3E - Consultant Issue	08/02/19			
04	OPTION 3F - Costing Issue	13/02/19			
05	PRELIMINARY PLANNING APPLICATION ISSUE	08/05/19			
06	PLANNING APPLICATION ISSUE	30/07/19			
07	OPTION 05 - Issue For Information	20/02/20			
08	OPTION 06	04/05/20			
09	PRELIMINARY SSDA DRAWING ISSUE	15/05/2020			
10	Updated for SSDA Submission	10/07/2020			
11	Updated Site Plan	04/08/2020			

TITLE
STRUCTURAL / CIVIL / SERVICES CONSULTANTS
NORTHROP

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NORTH

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PROJECT SPONSOR
NSW GOVERNMENT Create NSW Arts, Screen & Culture

DELIVERY AGENCY
NSW GOVERNMENT Public Works Advisory

CLIENT
Museum of Applied Arts & Sciences

PROJECT TITLE
BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

SCALE CHECK 5 10

lahznimmo architects
Suite 404, Flourmill Studios
3 Gladstone St
Newtown NSW 2042 Australia
T 02 9550 5200
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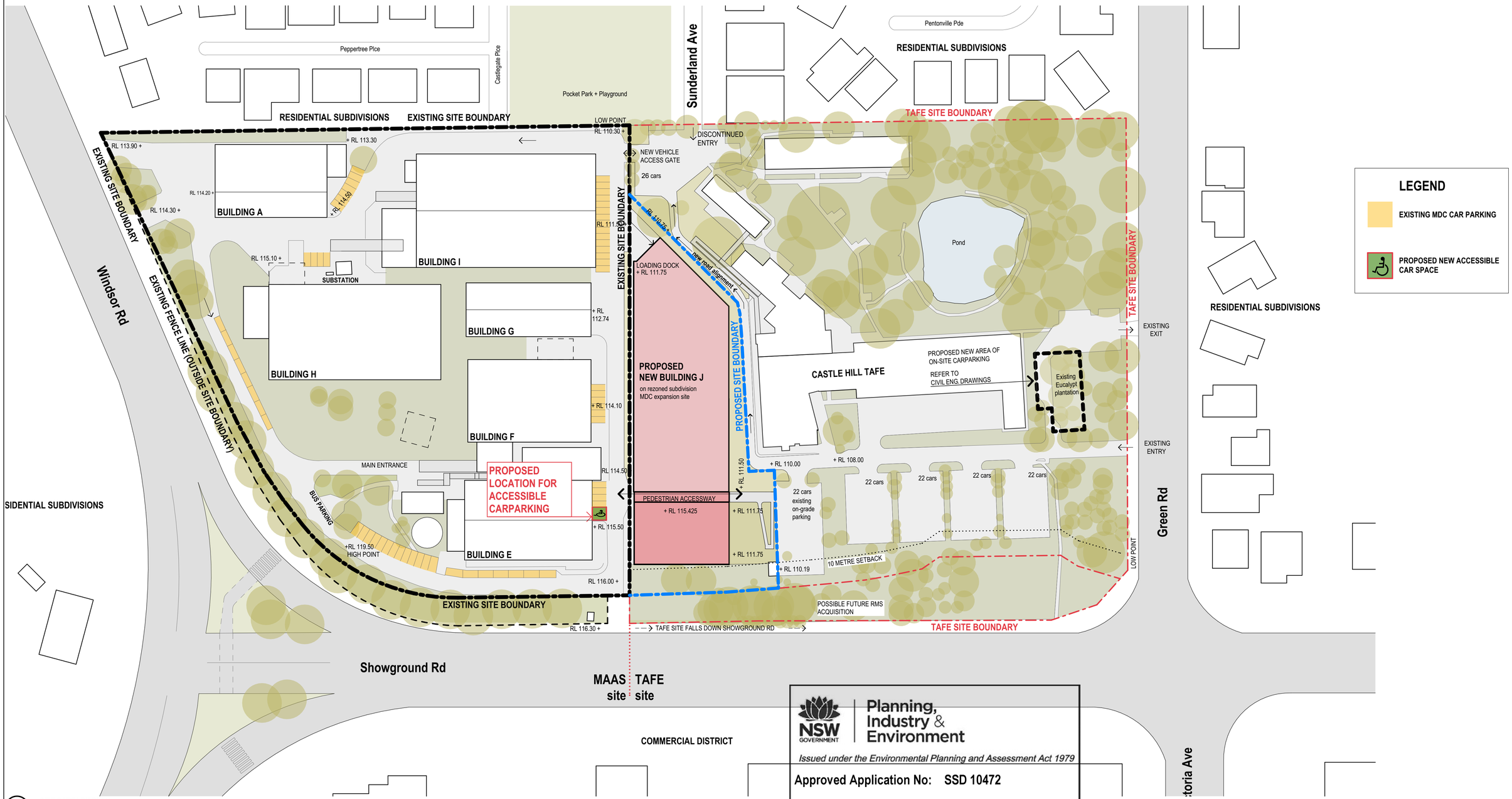
www.lahznimmo.com

TITLE
PROPOSED SITE PLAN

REVIEW	DIRECTOR SIGNATURE	DATE	DRAWN	PLOT DATE	SCALE @A1	SCALE @A3
			BC / BG	19/01/2021	1:750	
TENDER						
CONST			CHECKED AN	PROJECT NO. 18-14	DRAWING NO. A-DA-1101	REV. NO 12



1 SITE CARPARK PLAN
1:750

NSW GOVERNMENT | Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW Sheet No: 3 of 28

REV	DESCRIPTION	DATE
01	SSDA ISSUE	07/08/2020

REV	DESCRIPTION	DATE

TITLE: STRUCTURAL / CIVIL / SERVICES CONSULTANTS — NORTHROP

NORTH

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PROJECT SPONSOR: NSW GOVERNMENT Create NSW Arts, Screen & Culture

DELIVERY AGENCY: NSW GOVERNMENT Public Works Advisory

CLIENT: Museum of Applied Arts & Sciences

PROJECT TITLE: BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

SCALE CHECK 5 10

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TITLE: SITE CARPARK PLAN

REVIEW	DIRECTOR SIGNATURE	DATE
TENDER		
CONST		

DRAWN	PLOT DATE	SCALE @A1	SCALE @A3
BC / BG	19/01/2021	1:750	
CHECKED	PROJECT NO.	DRAWING NO.	REV. NO
AN	18-14	A-DA-1102	01

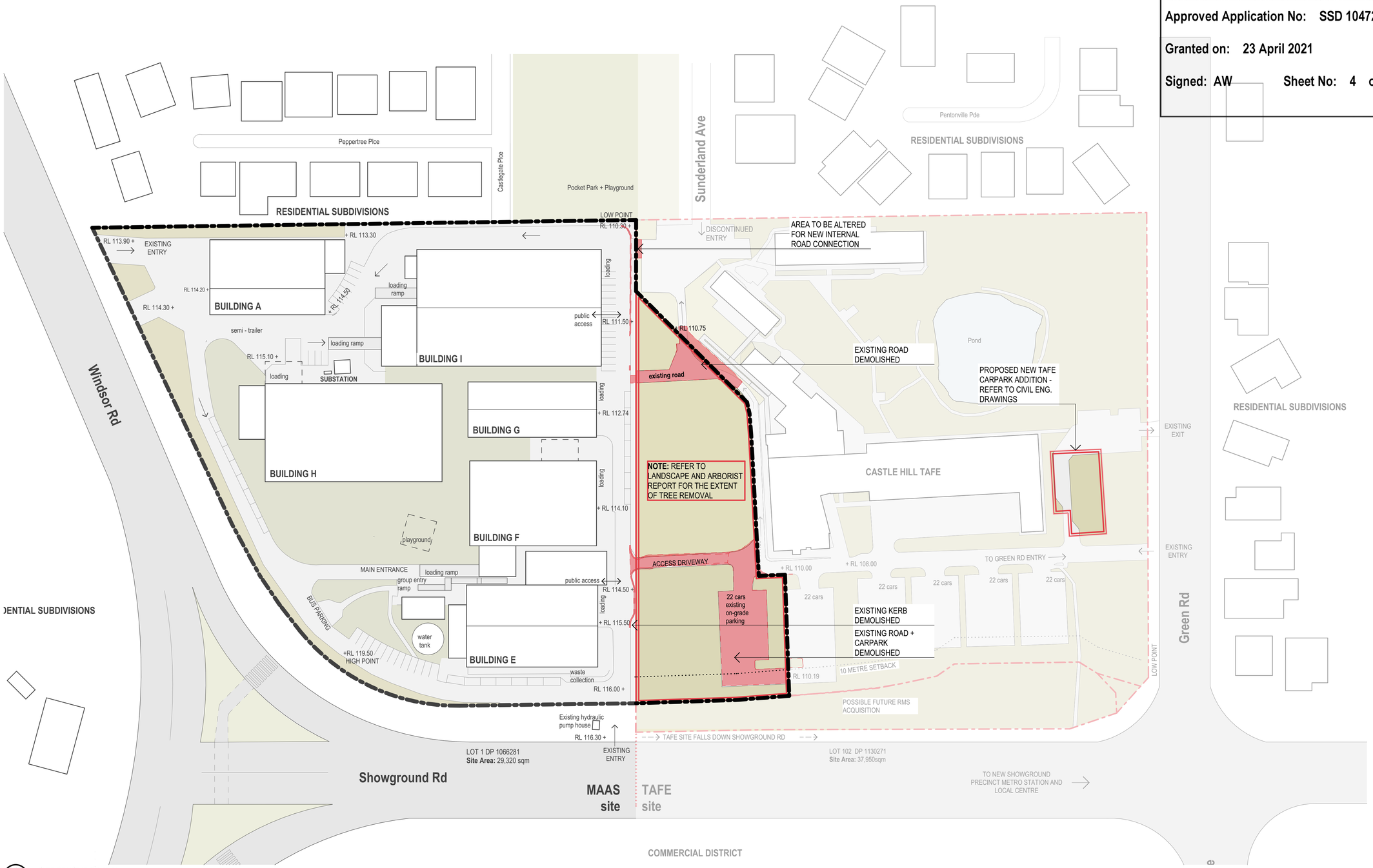
Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW **Sheet No:** 4 of 28



1 **SITE DEMOLITION PLAN**
1:750

REV	DESCRIPTION	DATE
01	SSDA ISSUE	07/08/2020

REV	DESCRIPTION	DATE

TITLE
STRUCTURAL / CIVIL / SERVICES CONSULTANTS
NORTHROP

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PROJECT SPONSOR
NSW GOVERNMENT Create NSW Arts, Screen & Culture

DELIVERY AGENCY
NSW GOVERNMENT Public Works Advisory

CLIENT
Museum of Applied Arts & Sciences

PROJECT TITLE
BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

SCALE CHECK 5 10

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REVIEW	DIRECTOR SIGNATURE	DATE
TENDER		
CONST		

TITLE
SITE DEMOLITION PLAN

DRAWN	PLOT DATE	SCALE @A1	SCALE @A3
BC / BG	19/01/2021	1:750	
CHECKED	PROJECT NO.	DRAWING NO.	REV. NO
AN	18-14	A-DA-1200	01

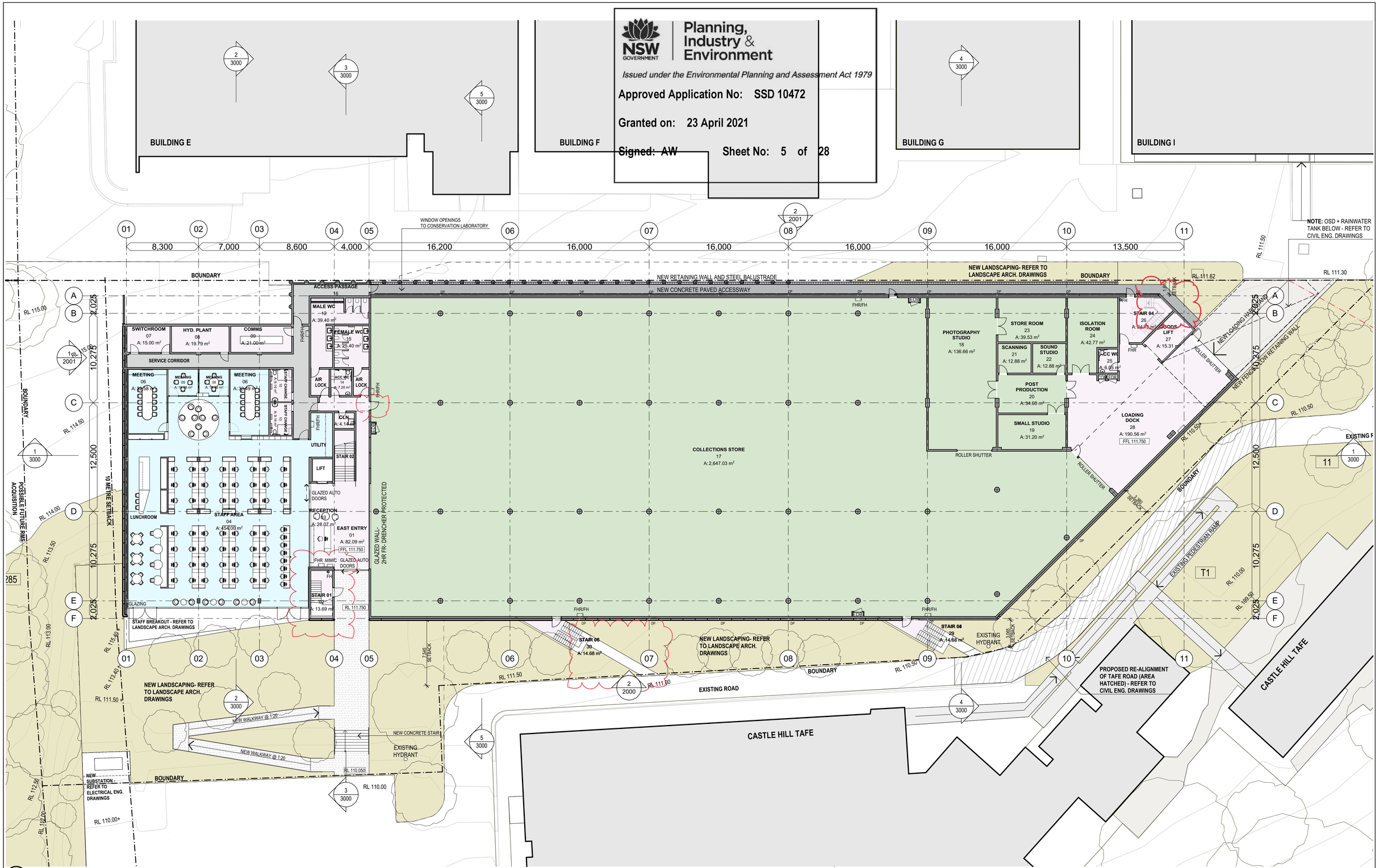
Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW **Sheet No: 5 of 28**



1 LOWER GROUND FLOOR
1:200

REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE
01	OPTION 3D - Preliminary Issue	07/12/18	12	SSDA ISSUE	07/08/2020
02	OPTION 3E - Preliminary Issue	23/01/19	13	UPDATED SSDA ISSUE	17/12/2020
03	OPTION 3F - Costing Issue	13/02/19			
04	OPTION 3F - Costing Issue Amended	15/02/19			
05	OPTION 3F - Amended issue for consultant information	05/03/19			
06	OPTION 3G	03/04/19			
07	OPTION 05 - Issue For Information	28/01/20			
08	OPTION 06	04/05/20			
09	PRELIMINARY SSDA DRAWING ISSUE	15/05/2020			
10	Updated Floor Cost Package	18/06/2020			
11	Updated for SSDA Submission	10/07/2020			

TITLE
STRUCTURAL / CIVIL / SERVICES CONSULTANTS
NORTHROP

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NORTH

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PROJECT SPONSOR
NSW GOVERNMENT Create NSW Arts, Screen & Culture

DELIVERY AGENCY
NSW GOVERNMENT Public Works Advisory

CLIENT
Museum of Applied Arts & Sciences

PROJECT TITLE
BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

SCALE CHECK 5 10

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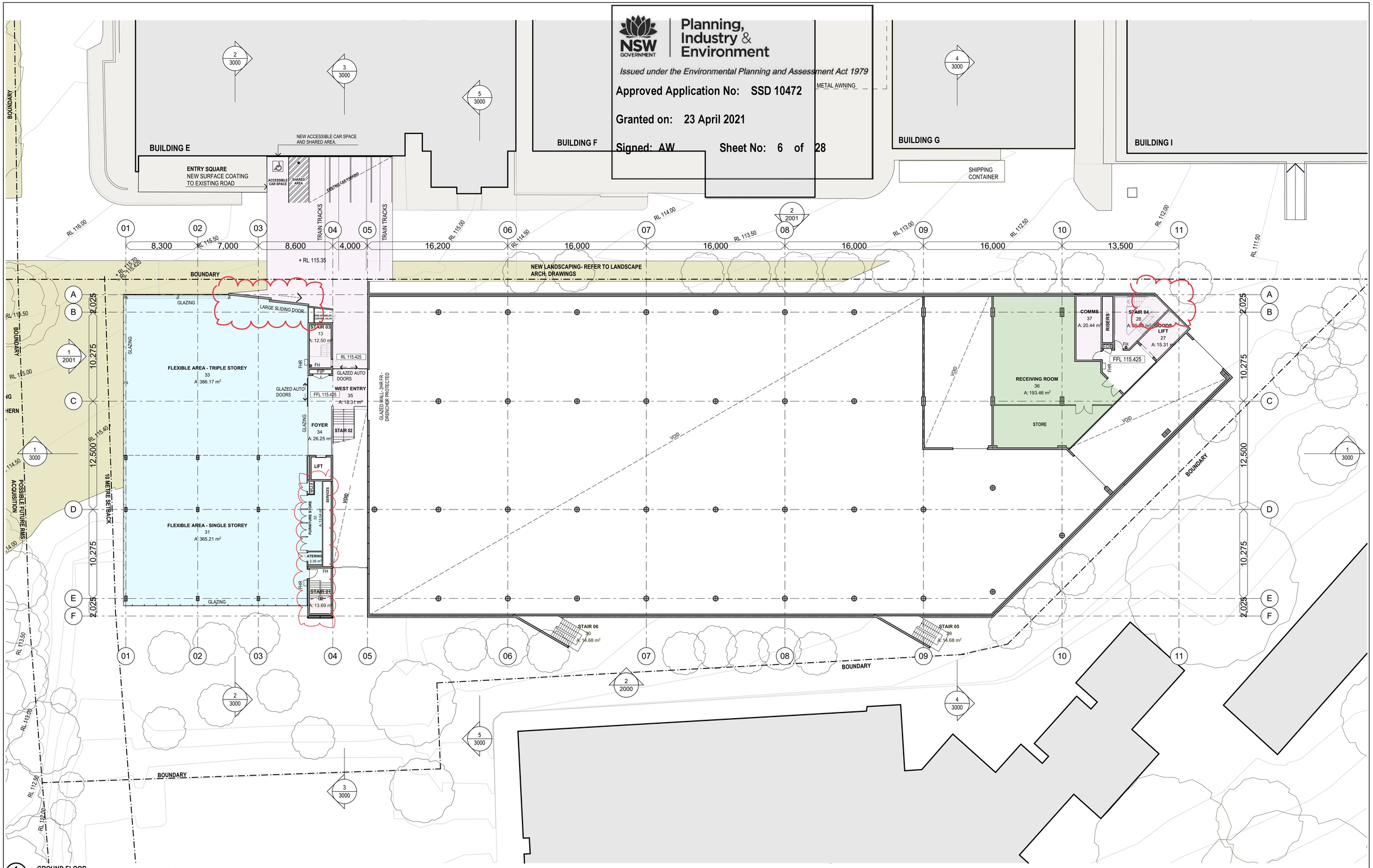
REVIEW	DIRECTOR SIGNATURE	DATE
TENDER		
CONST		

TITLE
LOWER GROUND FLOOR PLAN

DRAWN	PLOT DATE	SCALE @A1	SCALE @A3
BC / BG	19/01/2021	1:200	1:400
CHECKED	PROJECT NO.	DRAWING NO.	REV. NO
AN	18-14	A-DA-1400	13



1 GROUND FLOOR
1:200

Issued under the Environmental Planning and Assessment Act 1979
Approved Application No: SSD 10472
Granted on: 23 April 2021
Signed: AW Sheet No: 6 of 28

REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE
01	OPTION 3D - Preliminary Issue	07/12/18	12	SSDA ISSUE	07/08/2020
02	OPTION 3E - Preliminary Issue	23/01/19	13	UPDATED SSDA ISSUE	17/12/2020
03	OPTION 3F - Costing Issue	13/02/19			
04	OPTION 3F - Costing Issue Amended	15/02/19			
05	OPTION 3F - Amended issue for consultant information	05/03/19			
06	OPTION 3G	03/04/19			
07	OPTION 05 - Issue For Information	28/01/20			
08	OPTION 06	04/05/20			
09	PRELIMINARY SSDA DRAWING ISSUE	15/05/2020			
10	Updated Floor Cost Package	18/06/2020			
11	Updated for SSDA Submission	10/07/2020			

TITLE
STRUCTURAL / CIVIL / SERVICES CONSULTANTS
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PROJECT SPONSOR
NSW GOVERNMENT Create NSW Arts, Screen & Culture

DELIVERY AGENCY
NSW GOVERNMENT Public Works Advisory

CLIENT
Museum of Applied Arts & Sciences

PROJECT TITLE
BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

SCALE CHECK 5 10

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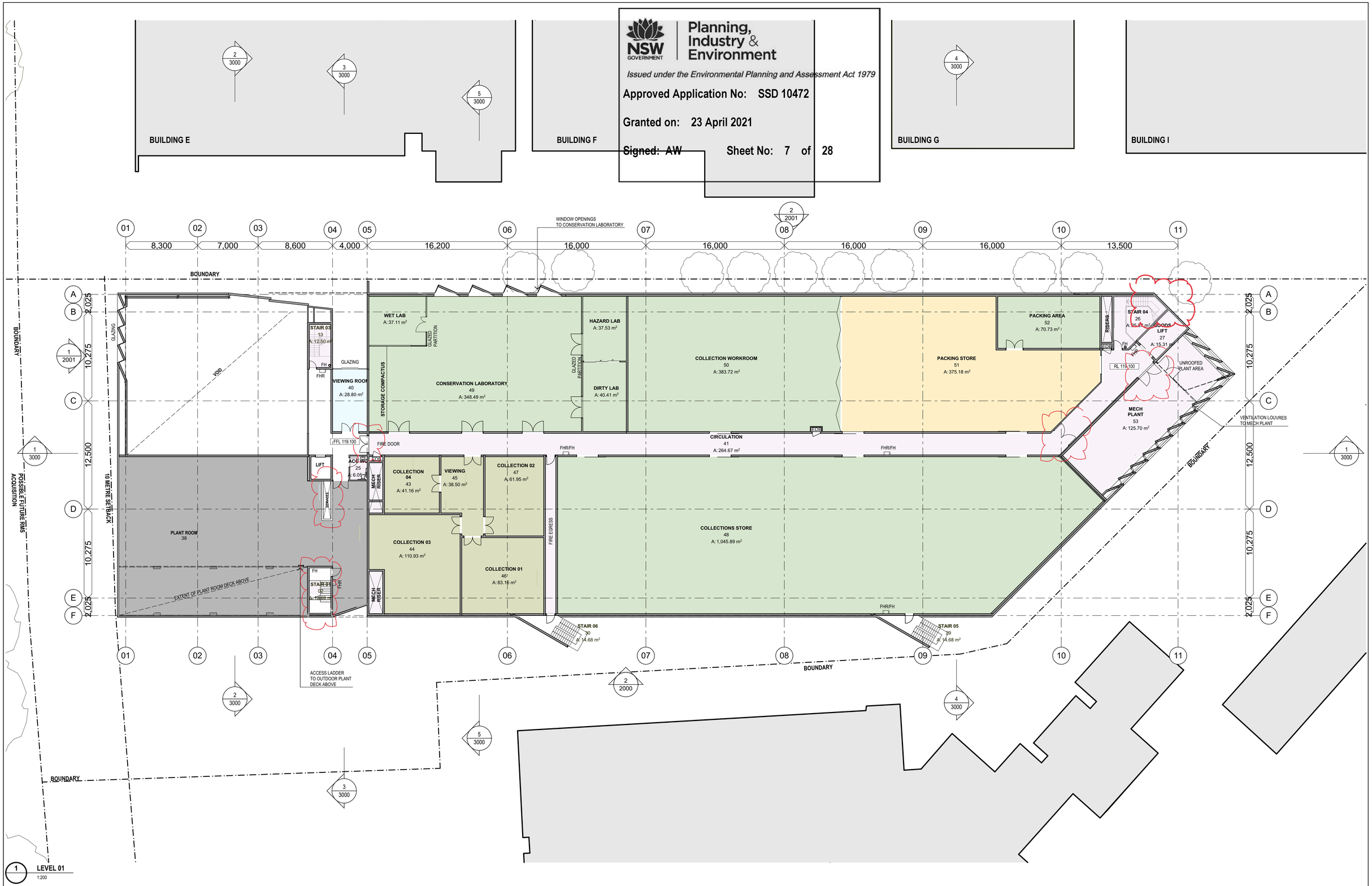
REVIEW	DIRECTOR SIGNATURE	DATE
TENDER		
CONST		

TITLE
GROUND FLOOR PLAN

DRAWN	PLOT DATE	SCALE @A1	SCALE @A3
BC / BG	19/01/2021	1:200	1:400
CHECKED	PROJECT NO.	DRAWING NO.	REV. NO
AN	18-14	A-DA-1401	13



1 LEVEL 01
1:200

REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE
01	OPTION 3D - Preliminary Issue	07/12/18	12	Updated Floor Cost Package	18/06/2020
02	OPTION 3E - Preliminary Issue	23/01/19	13	Updated for SSDA Submission	10/07/2020
03	OPTION 3F - Costing Issue	13/02/19	14	SSDA ISSUE	07/08/2020
04	OPTION 3F - Costing Issue Amended	15/02/19	15	UPDATED SSDA ISSUE	17/12/2020
05	OPTION 3F - Amended issue for consultant information	05/03/19			
06	OPTION 3G	03/04/19			
07	OPTION 05 - Issue For Information	28/01/20			
08	OPTION 05 - Amended Level 1 Plan	25/02/20			
09	OPTION 06	04/05/20			
10	PRELIMINARY SSDA DRAWING ISSUE	15/05/2020			
11	Amended Level 1 Plan + Section Drawings	12/06/2020			

TITLE
STRUCTURAL / CIVIL / SERVICES CONSULTANTS
NORTHROP

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PROJECT SPONSOR
NSW GOVERNMENT Create NSW Arts, Screen & Culture

DELIVERY AGENCY
NSW GOVERNMENT Public Works Advisory

CLIENT
Museum of Applied Arts & Sciences

PROJECT TITLE
BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

SCALE CHECK 5 10

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3 Gladstone St
Newtown NSW 2042 Australia
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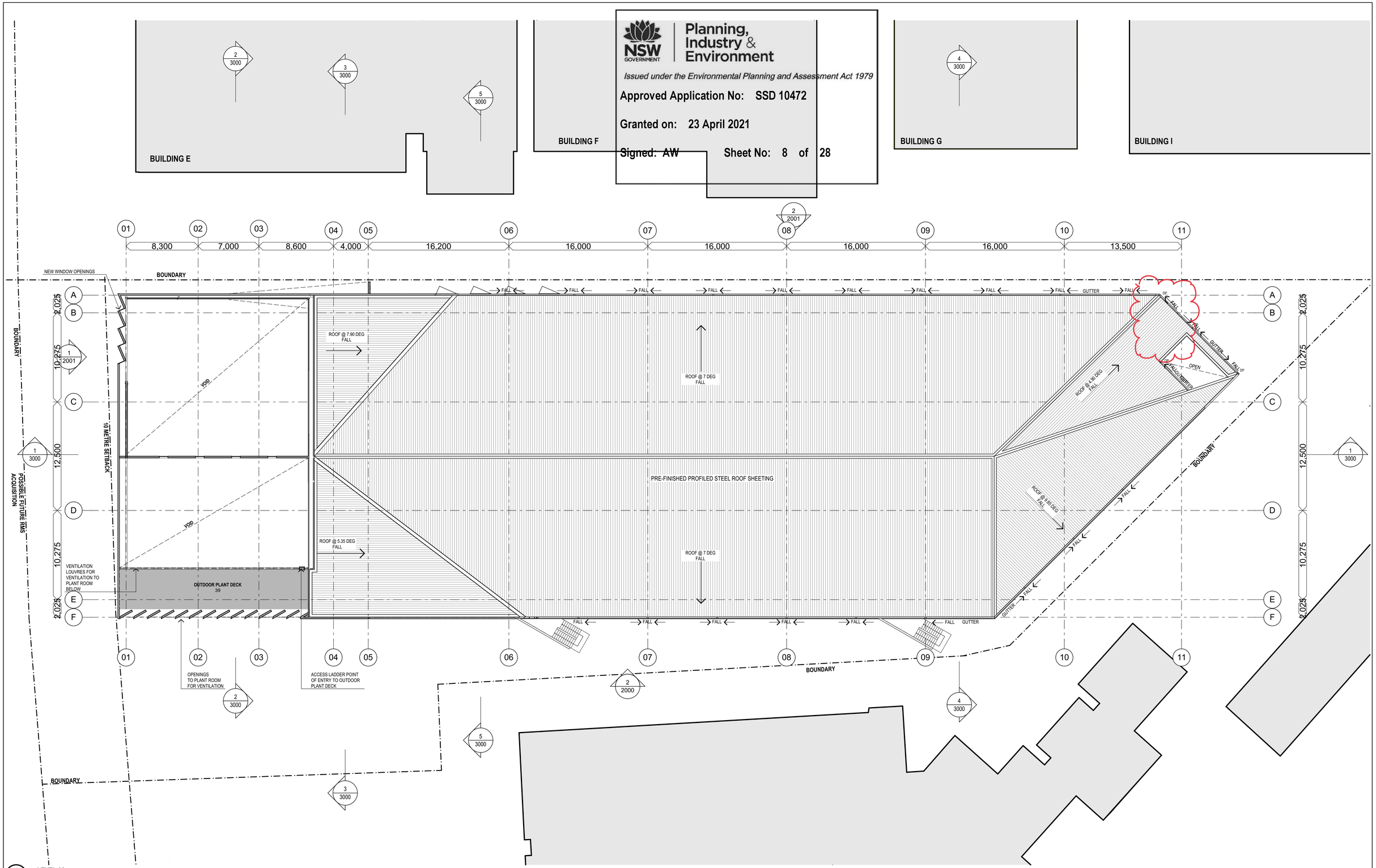
www.lahznimmo.com

REVIEW	DIRECTOR SIGNATURE	DATE
TENDER		
CONST		

TITLE
LEVEL 01 FLOOR PLAN

DRAWN	PLOT DATE	SCALE @A1	SCALE @A3
BC / BG	19/01/2021	1:200	1:400
CHECKED	PROJECT NO.	DRAWING NO.	REV. NO
AN	18-14	A - D A - 1 4 0 2	15



REV	DESCRIPTION	DATE
01	OPTION 3D - Preliminary Issue	07/12/18
02	OPTION 3E - Preliminary Issue	23/01/19
03	OPTION 3F - Costing Issue	13/02/19
04	OPTION 3F - Costing Issue Amended	15/02/19
05	OPTION 3F - Amended issue for consultant information	05/03/19
06	OPTION 3G	03/04/19
07	OPTION 05 - Issue For Information	28/01/20
08	OPTION 06	04/05/20
09	PRELIMINARY SSDA DRAWING ISSUE	15/05/2020
10	Updated for SSDA Submission	10/07/2020
11	SSDA ISSUE	07/08/2020
12	UPDATED SSDA ISSUE	17/12/2020

TITLE
STRUCTURAL / CIVIL / SERVICES CONSULTANTS
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PROJECT SPONSOR: NSW GOVERNMENT Create NSW | Arts, Screen & Culture
DELIVERY AGENCY: NSW GOVERNMENT Public Works Advisory
CLIENT: Museum of Applied Arts & Sciences

PROJECT TITLE
BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

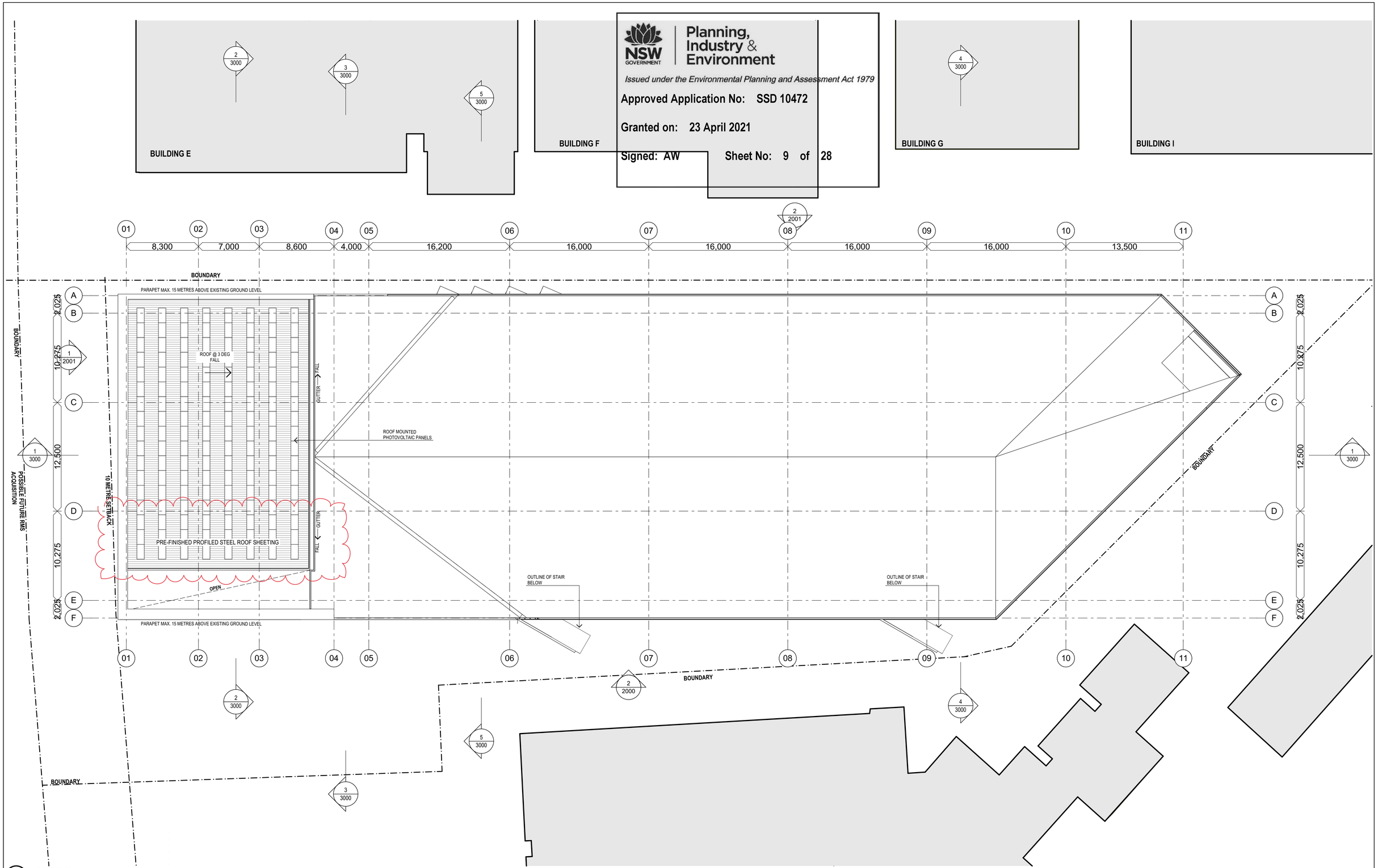
SCALE CHECK 5 10

lahznimmo architects
Suite 404, Flourmill Studios
3 Gladstone St
Newtown NSW 2042 Australia
T 02 9550 5200
F 02 9550 5233
www.lahznimmo.com

TITLE
LEVEL 02 FLOOR PLAN

REVIEW	DIRECTOR SIGNATURE	DATE
TENDER		
CONST		

DRAWN	PLOT DATE	SCALE @A1	SCALE @A3
BC / BG	19/01/2021	1:200	1:400
CHECKED	PROJECT NO.	DRAWING NO.	REV. NO
AN	18-14	A-DA-1403	12



1 ROOF PLAN
1:200

Issued under the Environmental Planning and Assessment Act 1979
Approved Application No: SSD 10472
Granted on: 23 April 2021
Signed: AW Sheet No: 9 of 28

REV	DESCRIPTION	DATE
01	OPTION 05 - Issue For Information	28/01/20
02	OPTION 06	04/05/20
03	PRELIMINARY SSDA DRAWING ISSUE	15/05/2020
04	Updated for SSDA Submission	10/07/2020
05	SSDA ISSUE	07/08/2020
06	UPDATED SSDA ISSUE	17/12/2020

REV	DESCRIPTION	DATE

TITLE
STRUCTURAL / CIVIL / SERVICES CONSULTANTS
NORTHROP

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PROJECT SPONSOR
NSW GOVERNMENT Create NSW Arts, Screen & Culture

DELIVERY AGENCY
NSW GOVERNMENT Public Works Advisory

CLIENT
Museum of Applied Arts & Sciences

PROJECT TITLE
BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

SCALE CHECK 5 10

lahznimmo architects
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3 Gladstone St
Newtown NSW 2042 Australia
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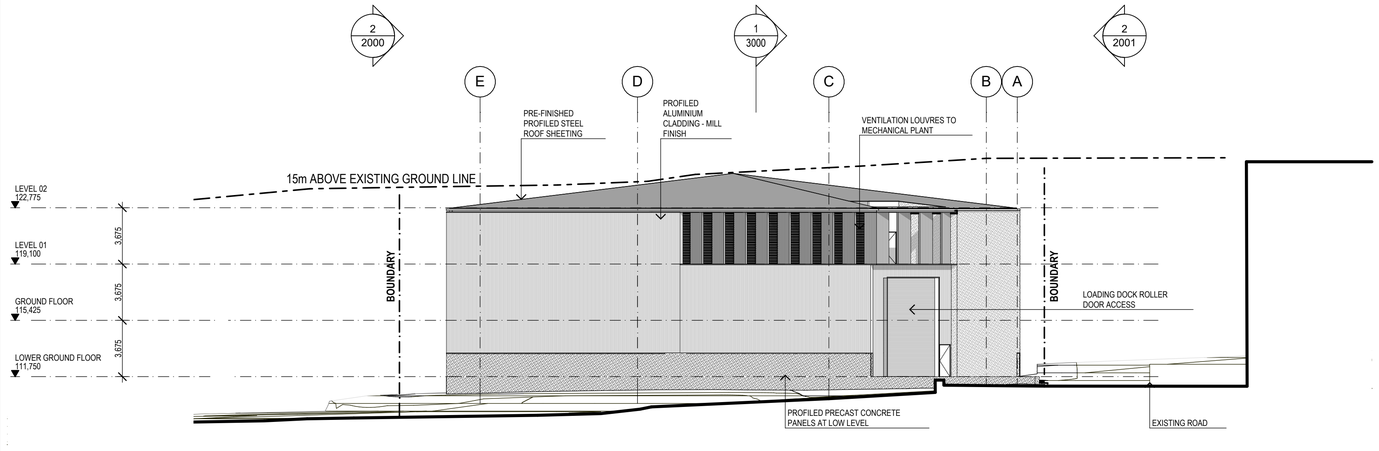
REVIEW	DIRECTOR SIGNATURE	DATE
TENDER		
CONST		

TITLE
ROOF PLAN

DRAWN	PLOT DATE	SCALE @A1	SCALE @A3
BC / BG	19/01/2021	1:200	
CHECKED	PROJECT NO.	DRAWING NO.	REV. NO
AN	18-14	A-DA-1404	06



1 NORTH ELEVATION
1:200

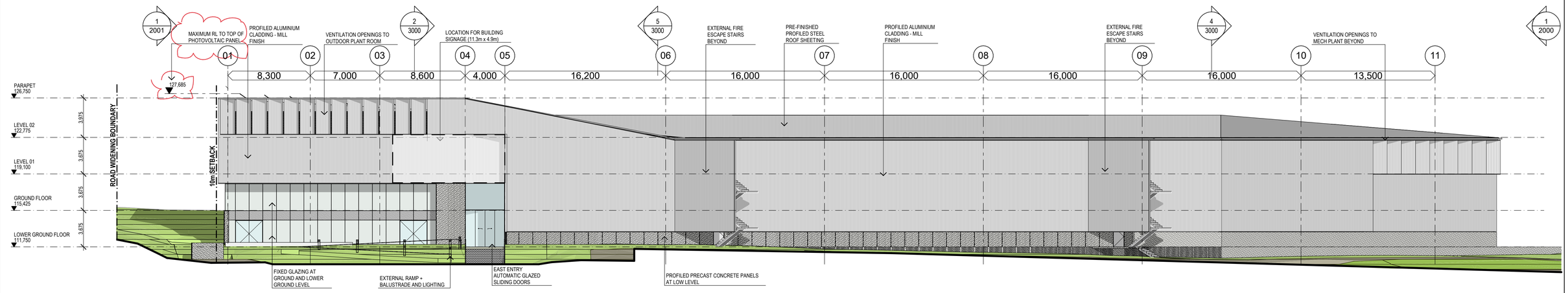
Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW Sheet No: 10 of 28



2 EAST ELEVATION
1:200

REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE
01	OPTION 3F - Costing Issue	13/02/19	12	UPDATED SSDA ISSUE	09/03/2021
02	OPTION 3F - Costing Issue Amended	15/02/19			
03	OPTION 3F - Amended issue for consultant information	05/03/19			
04	OPTION 3G	03/04/19			
05	OPTION 05 - Issue For Information	28/01/20			
06	OPTION 06	04/05/20			
07	PRELIMINARY SSDA DRAWING ISSUE	15/05/2020			
08	Updated for SSDA Submission	10/07/2020			
09	SSDA ISSUE	07/08/2020			
10	UPDATED SSDA ISSUE	17/12/2020			
11	UPDATED SSDA ISSUE	25/02/2021			

TITLE
STRUCTURAL / CIVIL / SERVICES CONSULTANTS
NORTHROP

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PROJECT SPONSOR
Create NSW Arts, Screen & Culture

DELIVERY AGENCY
Public Works Advisory

CLIENT
Museum of Applied Arts & Sciences

PROJECT TITLE
BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

SCALE CHECK 5 10

lahznimmo architects
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REVIEW	DIRECTOR SIGNATURE	DATE
TENDER		
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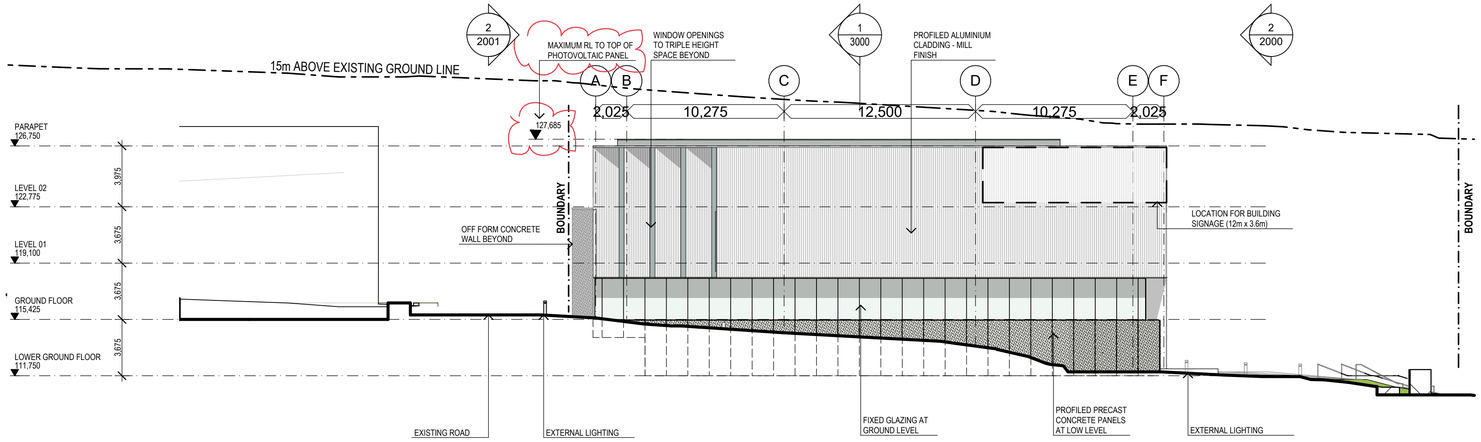
TITLE
ELEVATIONS

DRAWN	PLOT DATE	SCALE @A1	SCALE @A3
BC / BG	9/03/2021	1:200	
CHECKED	PROJECT NO.	DRAWING NO.	REV. NO
AN	18-14	A-DA-2000	12



1 **SOUTH ELEVATION - SHOWGROUND ROAD**
1:200

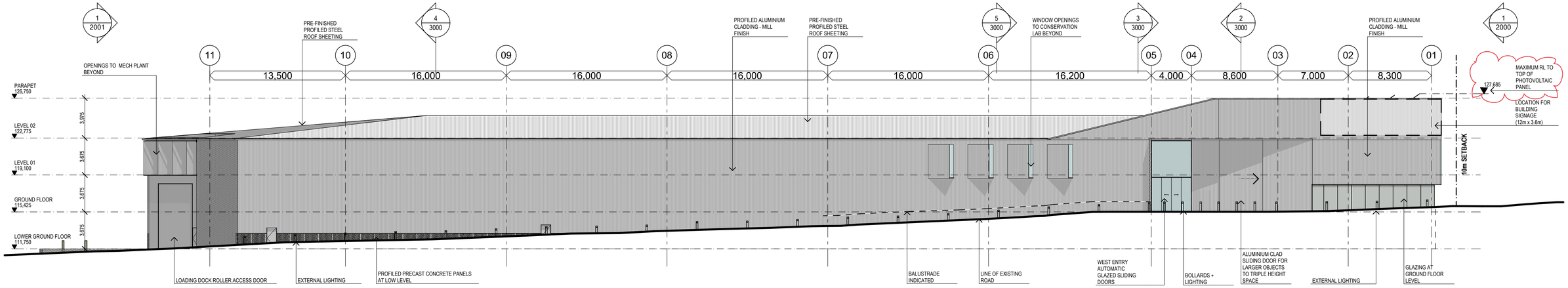
Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW **Sheet No: 11 of 28**



2 **WEST ELEVATION**
1:200

REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE
01	OPTION 3F - Costing Issue	13/02/19	12	UPDATED SSDA ISSUE	09/03/2021
02	OPTION 3F - Costing Issue Amended	15/02/19			
03	OPTION 3F - Amended issue for consultant information	05/03/19			
04	OPTION 3G	03/04/19			
05	OPTION 05 - Issue For Information	28/01/20			
06	OPTION 06	04/05/20			
07	PRELIMINARY SSDA DRAWING ISSUE	15/05/2020			
08	Updated for SSDA Submission	10/07/2020			
09	SSDA ISSUE	07/08/2020			
10	UPDATED SSDA ISSUE	17/12/2020			
11	UPDATED SSDA ISSUE	25/02/2021			

TITLE
STRUCTURAL / CIVIL / SERVICES CONSULTANTS
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PROJECT SPONSOR
NSW GOVERNMENT Create NSW Arts, Screen & Culture

DELIVERY AGENCY
NSW GOVERNMENT Public Works Advisory

CLIENT
Museum of Applied Arts & Sciences

PROJECT TITLE
BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

SCALE CHECK 5 10

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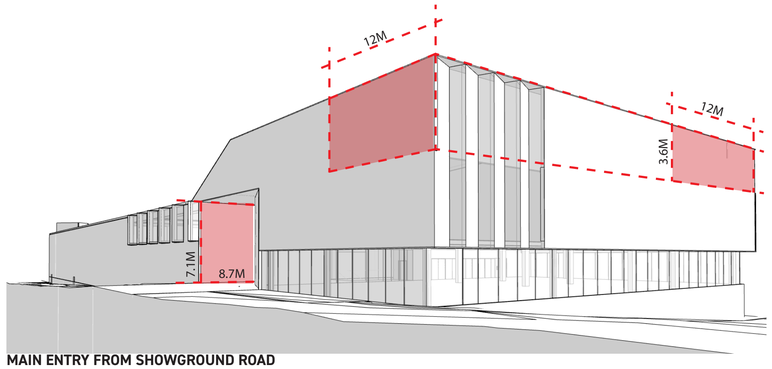
F 02 9550 5233
www.lahznimmo.com

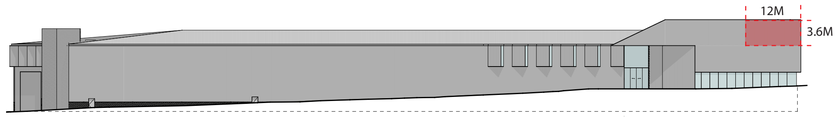
REVIEW	DIRECTOR SIGNATURE	DATE
TENDER		
CONST		

TITLE
ELEVATIONS

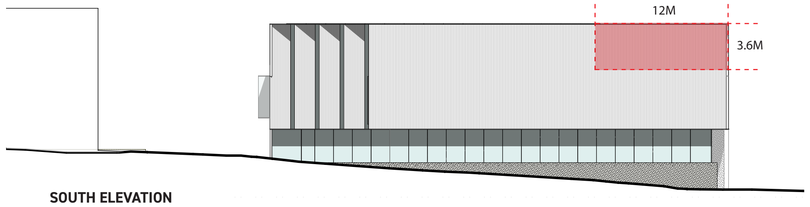
DRAWN	PLOT DATE	SCALE @A1	SCALE @A3
BC / BG	9/03/2021	1:200	
CHECKED	PROJECT NO.	DRAWING NO.	REV. NO
AN	18-14	A-DA-2001	12



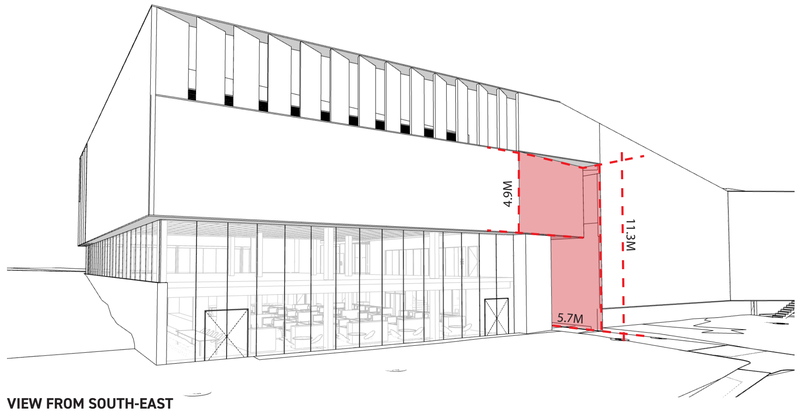
MAIN ENTRY FROM SHOWGROUND ROAD



WEST ELEVATION



SOUTH ELEVATION



VIEW FROM SOUTH-EAST

EAST ELEVATION

NSW GOVERNMENT | Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW **Sheet No: 12 of 28**

REV	DESCRIPTION	DATE
01	UPDATED SSDA ISSUE	24/03/2021

REV	DESCRIPTION	DATE

TITLE
STRUCTURAL / CIVIL / SERVICES CONSULTANTS
NORTHROP

TITLE

TITLE

TITLE

TITLE

TITLE

TITLE

TITLE

NORTH

DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS ONLY. VERIFY ALL DIMENSIONS ON SITE.
REFER ANY DISCREPANCIES TO THE ARCHITECT.

PROJECT SPONSOR
NSW GOVERNMENT Create NSW Arts, Screen & Culture

DELIVERY AGENCY
NSW GOVERNMENT Public Works Advisory

CLIENT
Museum of Applied Arts & Sciences

PROJECT TITLE
BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

SCALE CHECK 5 10

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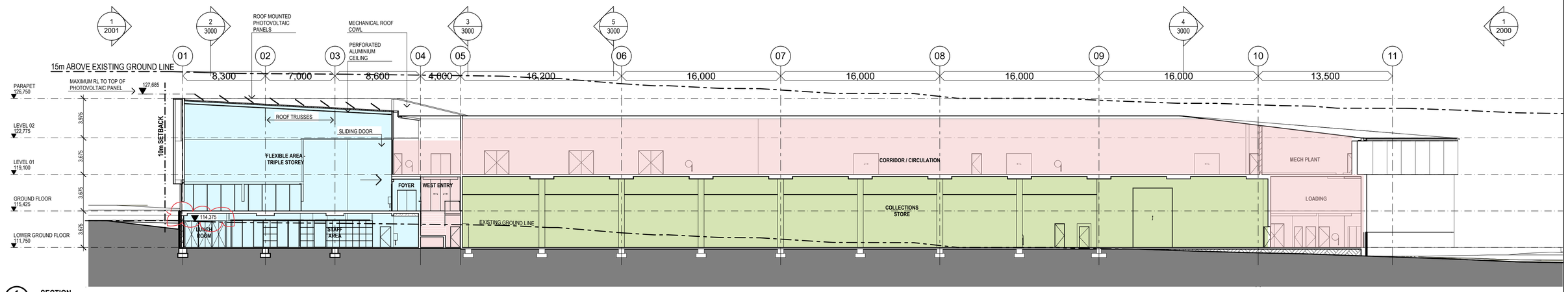
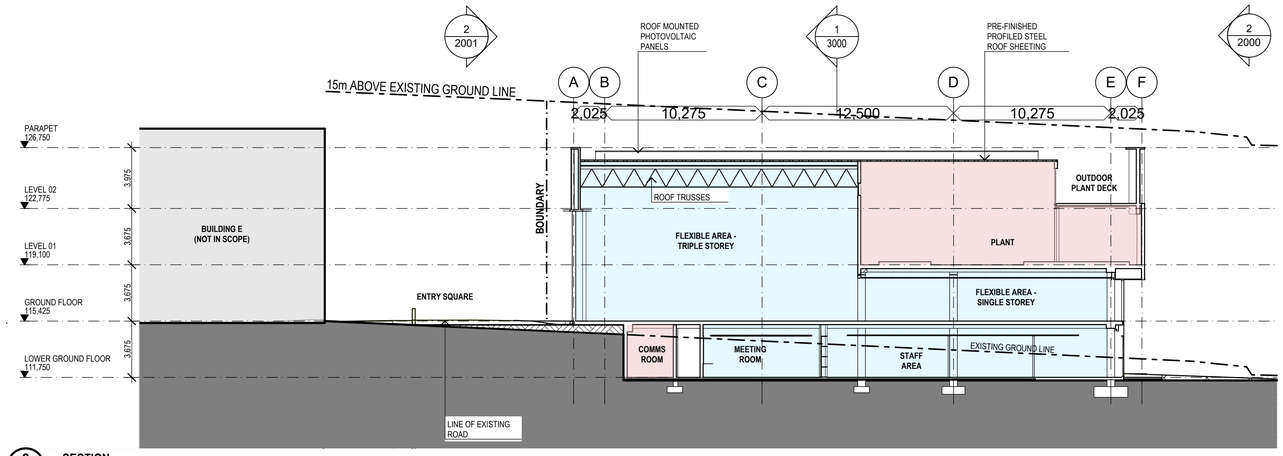
REVIEW	DIRECTOR SIGNATURE	DATE
TENDER		
CONST		

TITLE
SIGNAGE ZONES

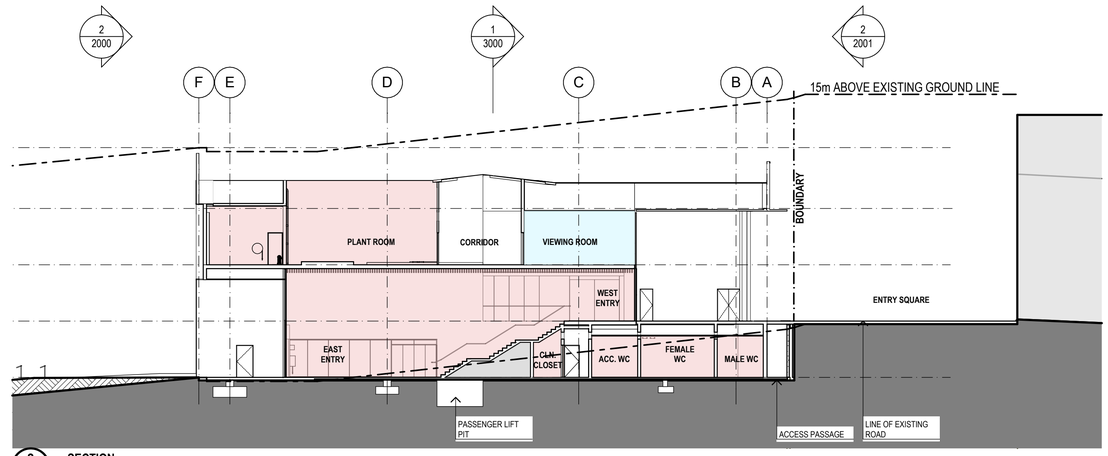
DRAWN	PLOT DATE	SCALE @A1	SCALE @A3
BC / BG	24/03/2021	1:1	
CHECKED	PROJECT NO.	DRAWING NO.	REV. NO
AN	18-14	A-DA-2002	01



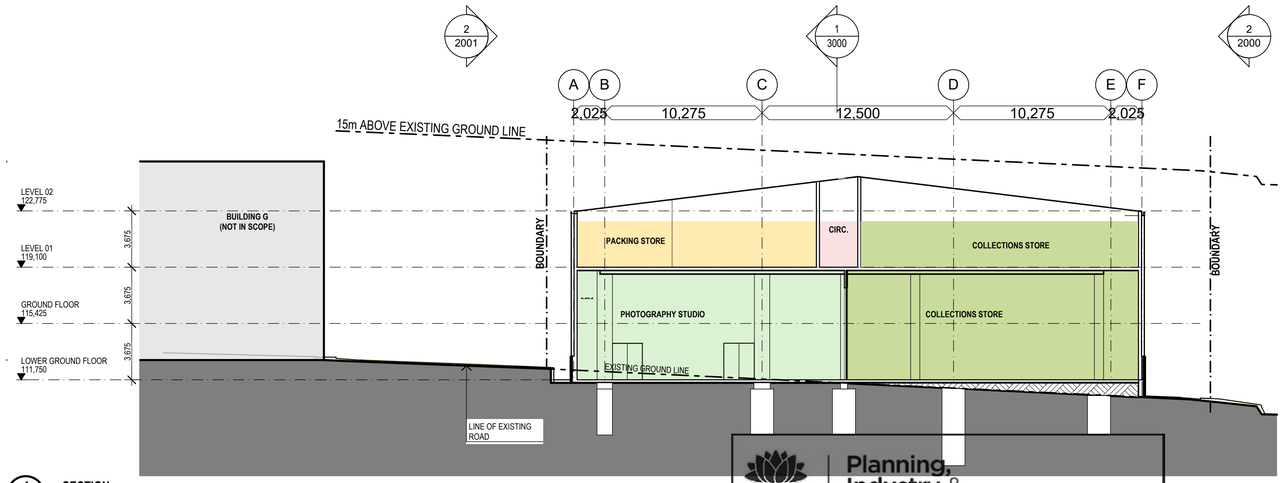
1 SECTION
1:200



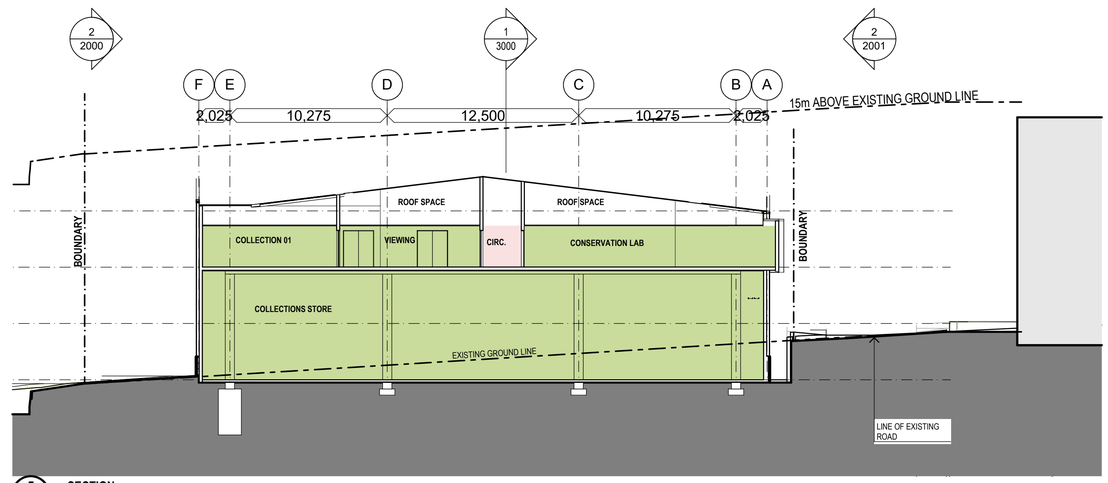
2 SECTION
1:200



3 SECTION
1:200



4 SECTION
1:200



5 SECTION

REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE
01	OPTION 3E - Preliminary Issue	23/01/19	12	UPDATED SSDA ISSUE	17/12/2020
02	OPTION 3F - Costing Issue	13/02/19	13	UPDATED SSDA ISSUE	26/02/2021
03	OPTION 3F - Costing Issue Amended	15/02/19	14	UPDATED SSDA ISSUE	09/03/2021
04	OPTION 3F - Amended issue for consultant information	05/03/19	15	UPDATED SSDA ISSUE	24/03/2021
05	OPTION 3G	03/04/19			
06	OPTION 05 - Issue For Information	28/01/20			
07	OPTION 06	04/05/20			
08	PRELIMINARY SSDA DRAWING ISSUE	15/05/2020			
09	Amended Level 1 Plan + Section Drawings	12/06/2020			
10	Updated for SSDA Submission	10/07/2020			
11	SSDA ISSUE	07/08/2020			

TITLE
STRUCTURAL / CIVIL / SERVICES CONSULTANTS
NORTHROP

NSW GOVERNMENT Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW Sheet No: 13 of 28

NORTH

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PROJECT SPONSOR: NSW GOVERNMENT Create NSW Arts, Screen & Culture
DELIVERY AGENCY: NSW GOVERNMENT Public Works Advisory
CLIENT: Museum of Applied Arts & Sciences

PROJECT TITLE
BUILDING J
Museums Discovery Centre,
172 Showground Road
Castle Hill

SCALE CHECK 5 10

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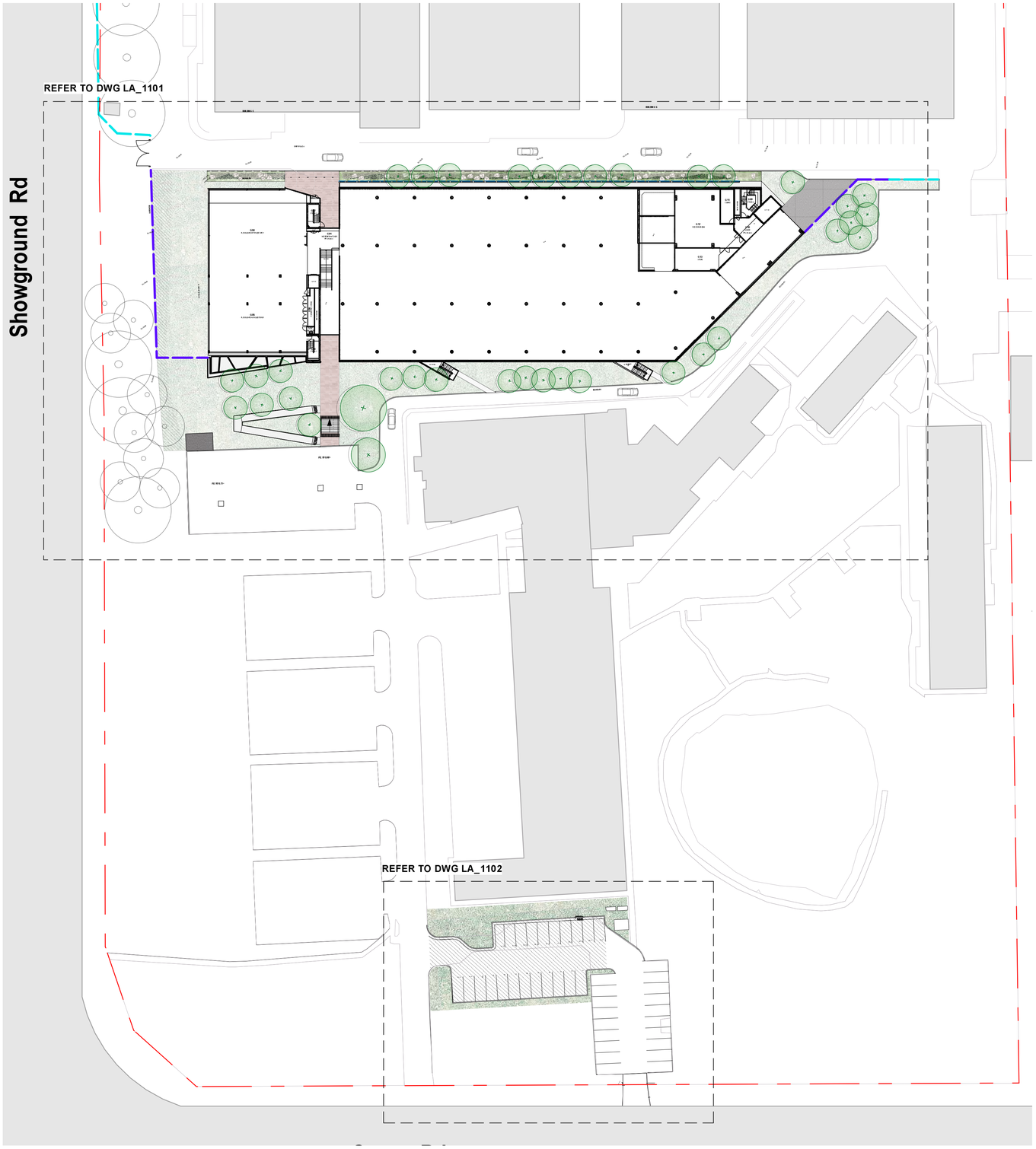
REVIEW	DIRECTOR SIGNATURE	DATE
TENDER		
CONST		

TITLE
SCHEDULES

DRAWN	PLOT DATE	SCALE @A1	SCALE @A3
BC / BG	24/03/2021	1:200	
CHECKED	PROJECT NO.	DRAWING NO.	REV. NO
AN	18-14	A-DA-3000	15



DRAWING LIST

Sheet No.	Sheet Name	Sheet Size	Rev. No.	Rev. Date
LA_1100	COVER SHEET & LEGEND	A1	C	02/02/21
LA_1101	LANDSCAPE PLAN	A1	D	02/02/21
LA_1102	LANDSCAPE PLAN - TAFE CAR PARK	A1	B	05/08/20
LA_1103	TREE REMOVAL PLAN	A1	B	05/08/20
LA_1104	TREE PROTECTION ZONE PLAN	A1	A	02/02/21
LA_3000	LANDSCAPE SECTION	A1	B	05/08/20

LEGEND

BUILDING J SITE BOUNDARY

TN XXX — **TREE NUMBER** REFER TO ARBORIST REPORT FOR FURTHER INFORMATION

EXISTING TREE RETAIN AND PROTECT

EXISTING TREE - UNSURVEYED RETAIN AND PROTECT

EXISTING TREE TO BE REMOVED

TREE PROTECTION ZONE RETAIN AND PROTECT

NOTES:
PROJECT ARBORIST TO REVIEW DESIGN AND CONFIRM EXTENT OF TREE REMOVAL AND RETENTION.

REFER TO THE ARBORIST REPORT BY MACKAY TREE MANAGEMENT

SOFTWORKS

PROPOSED TREE SPECIES TO BE CONFIRMED - REFER TO PLANTING PALETTE

PROPOSED MASS PLANTING SITE WIDE

EXISTING UNDERSTOREY PLANTING TO BE PROTECTED & INTEGRATED WITH NEW PLANTING FOLLOWING TREE REMOVAL / CONSTRUCTION

PROPOSED WSUD WESTERNEDGE OF BUILDING J

HARDWORKS

CONCRETE FEATURE PATH PEDESTRIAN LINK THROUGH BUILDING J *FUTURE INTERPRETIVE ART TBC

HARDWOOD DECKING STAFF BREAKOUT SPACE

BRUSHED CONCRETE SURFACE - DARK LOADING DOCK / SUBSTATION

BRUSHED CONCRETE SURFACE - LIGHT ACCESS PATH

FIXTURES & FURNITURE

STAINLESS STEEL TACTILE INDICATORS WESTERNACCESS ROAD | STEPS

PRECAST CONCRETE STEP UNIT 300mm TREAD x 150mm RISE | CONTRASTING NOSING STRIP

STAINLESS STEEL HANDRAIL TO FUTURE DETAIL

CONCRETE SEATING EDGE TO STAFF BREAKOUT SPACE

BALUSTRADE ALONG WESTERN EDGE OF ACCESS PATH | TO ARCHITECT'S DETAIL

FIXTURES & FURNITURE (continued)

EXISTING FENCE

PROPOSED FENCE TO MATCH EXISTING ENGINEER'S SPECIFICATION

GATE

LIGHTING

LIGHTING BOLLARD

TREE UPLIGHTERS

POLE MOUNTED LIGHT

NSW GOVERNMENT | Planning, Industry & Environment

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Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW **Sheet No: 14 of 28**

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Check all dimensions and site conditions prior to commencement of any work or procurement or fabrication of any services, materials, fittings or equipment.

NOTES / KEY PLAN

DATE	REV	AMENDMENTS
8/5/20	A	SSDA ISSUE
14/01/21	B	SSDA ISSUE
2/2/21	C	SSDA ISSUE

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ABN 11 120 219 561

PROJECT S19107
MUSEUM DISCOVERY CENTRE | BUILDING J SSDA

CLIENT
NSW GOVERNMENT | Create NSW Arts, Screen & Culture

NORTH

SCALE A1 | SCALE A3
1:250 1:500

DRAWN JT | SB CHECKED SB | JK

0 5 10 20M

Do not scale - use dimensions & callouts on drawings & schedules. Refer discrepancies to Landscape Architect for clarification.

STATUS
FOR DEVELOPMENT APPLICATION
NOT FOR CONSTRUCTION

DRAWING
COVER SHEET & LEGEND

DRAWING NO. LA_1000

REVISION C

X:\0000\005_PRODUCTION\01_Phase\01_CAD\Package Files\

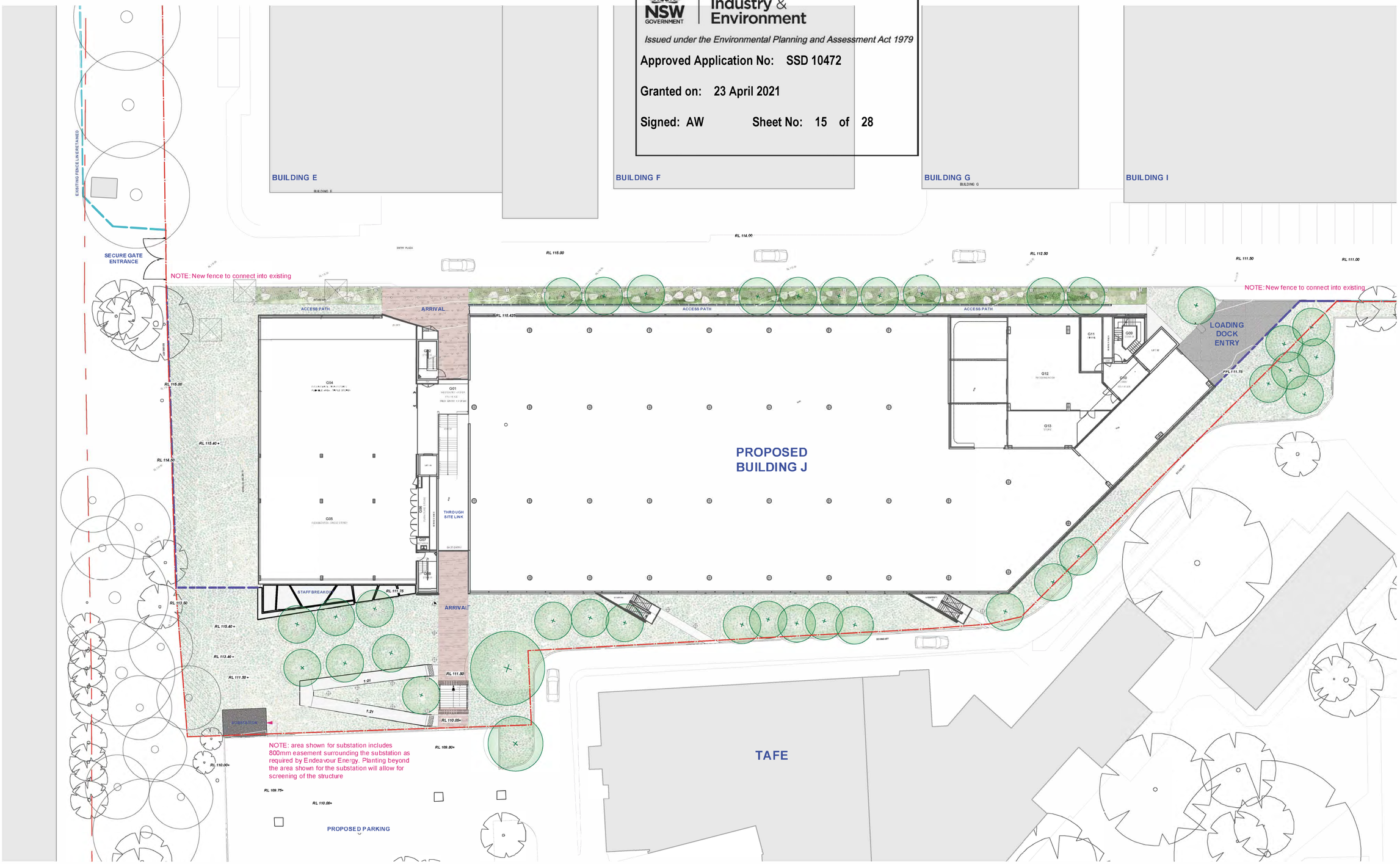
Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW Sheet No: 15 of 28



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NOTES / KEY PLAN

DATE	REV	AMENDMENTS
7/30/20	A	DRAFT SSDA ISSUE
8/7/20	B	SSDA ISSUE
14/01/21	C	SSDA ISSUE
2/2/21	D	SSDA ISSUE

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PROJECT S19107

MUSEUM DISCOVERY CENTRE | BUILDING J SSDA

CLIENT

NSW GOVERNMENT Create NSW Arts, Screen & Culture

NORTH

SCALE A1	SCALE A3	DRAWN	CHECKED
1:250	1:500	JT	SB | LP

0 5 10 20M

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DRAWING

LANDSCAPE PLAN

STATUS

FOR DEVELOPMENT APPLICATION

NOT FOR CONSTRUCTION

DRAWING NO. LA_1101

REVISION D

X00001\05_PRODUCTION\01_Phase\01_CAD\Package Files\

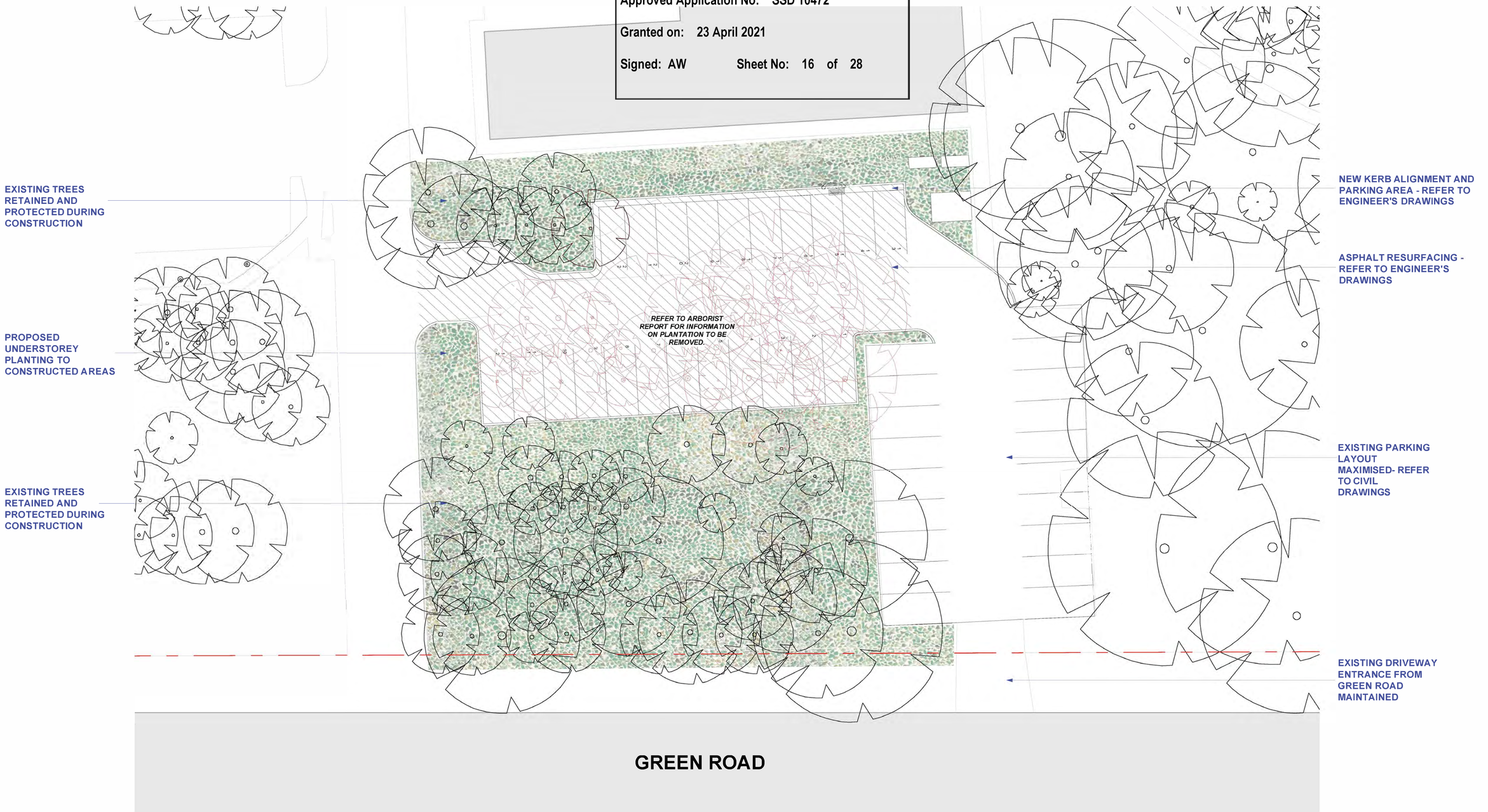
Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW Sheet No: 16 of 28



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NOTES / KEY PLAN

DATE	REV	AMENDMENTS
7/30/20	A	DRAFT SSDA ISSUE
8/7/20	B	SSDA ISSUE

ARCHITECTS

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PROJECT S19107

MUSEUM DISCOVERY CENTRE | BUILDING J SSDA

CLIENT

Create NSW Arts, Screen & Culture

NORTH

SCALE A1	SCALE A3	DRAWN	CHECKED
1:150	1:300	JT	SB | LP

0 5 10 20M

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STATUS

FOR DEVELOPMENT APPLICATION

NOT FOR CONSTRUCTION

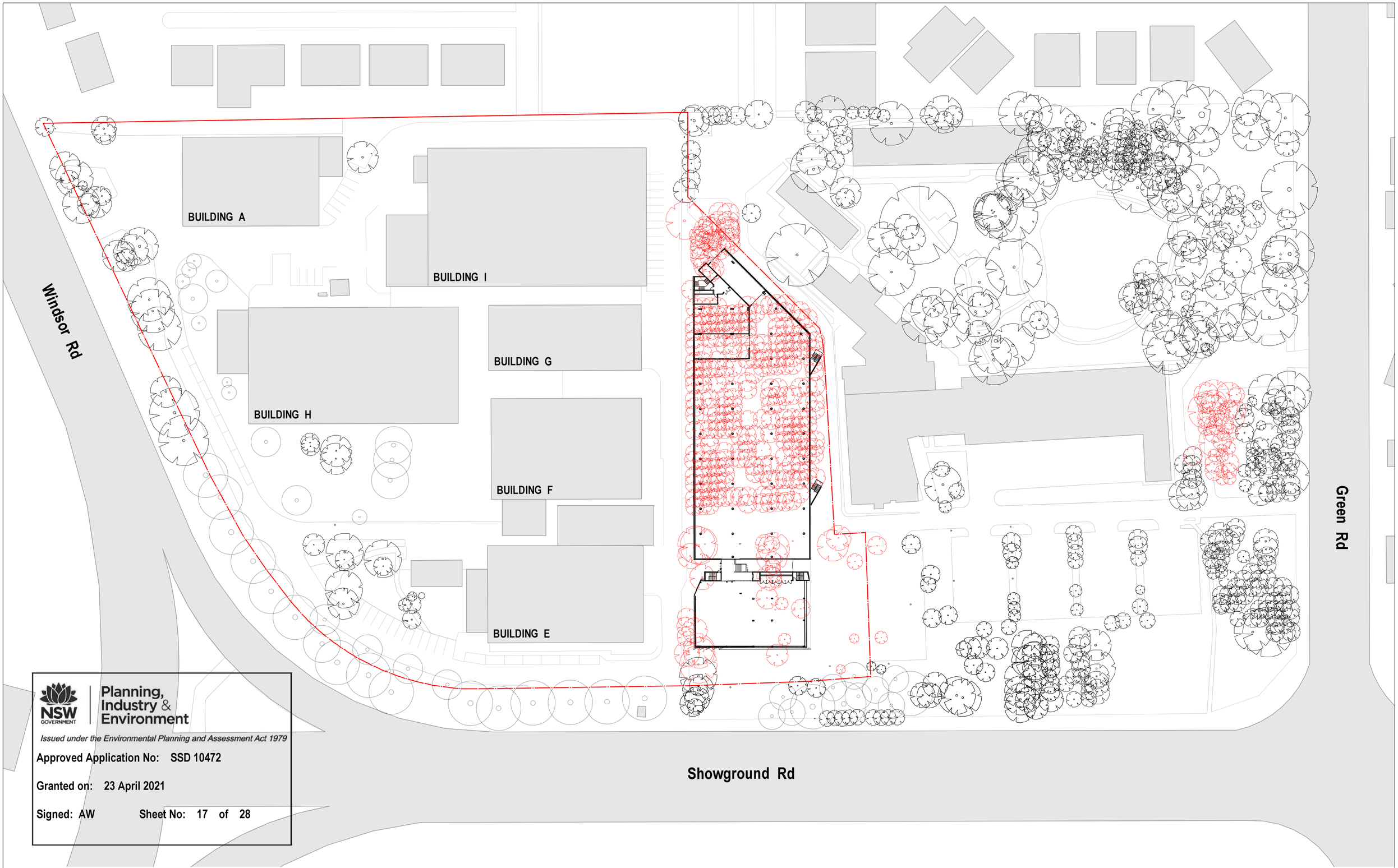
DRAWING

LANDSCAPE PLAN
TAFE CAR PARK

DRAWING NO. LA_1102

REVISION B

X0000\05_PRODUCTION\01_Phase\01_CAD\Package Files\



NSW GOVERNMENT | Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW Sheet No: 17 of 28

WARNING

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NOTES / KEY PLAN

DATE	REV	AMENDMENTS
7/30/20	A	DRAFT SSDA ISSUE
8/7/20	B	SITE BOUNDARY UPDATE

ARCHITECTS

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PROJECT S19107

MUSEUM DISCOVERY CENTRE | BUILDING J SSDA

CLIENT

NSW GOVERNMENT | Create NSW Arts, Screen & Culture

NORTH

SCALE A1 | SCALE A3 1:500 1:1000

DRAWN JT **CHECKED** SB | LP

0 10 20 40M

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STATUS

FOR DEVELOPMENT APPLICATION

NOT FOR CONSTRUCTION

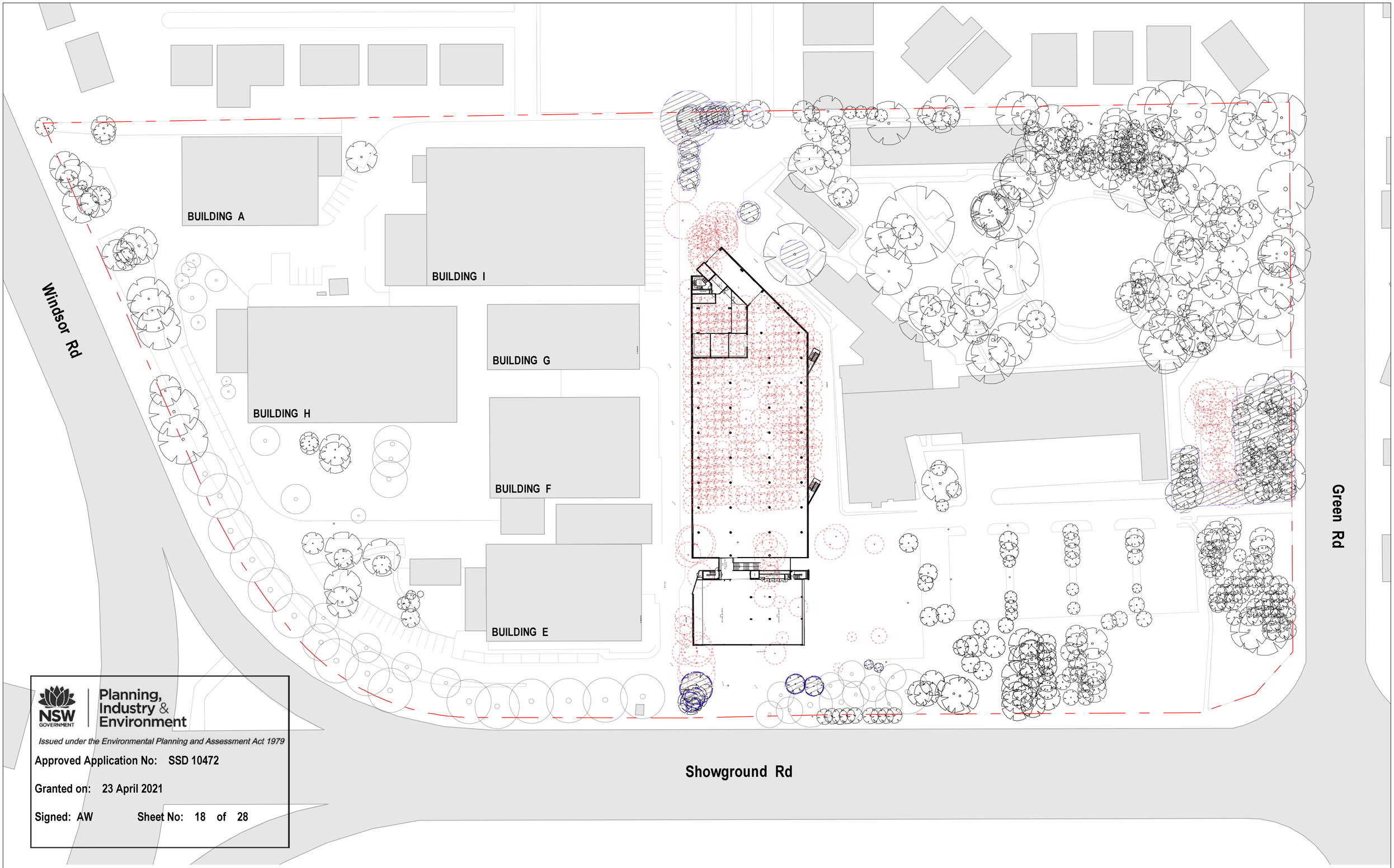
DRAWING

TREE REMOVAL PLAN

DRAWING NO. LA_1103

REVISION B

X:\0000\05_PRODUCTION\01_Phase\01_CAD\Package Files\



NSW GOVERNMENT | Planning, Industry & Environment

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Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW Sheet No: 18 of 28

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NOTES / KEY PLAN

DATE	REV	AMENDMENTS
2/2/21	A	SSDA ISSUE

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PROJECT S19107

MUSEUM DISCOVERY CENTRE | BUILDING J SSDA

CLIENT

NSW GOVERNMENT | Create NSW Arts, Screen & Culture

NORTH

SCALE A1 1:500 | **SCALE A3** 1:1000

DRAWN JT **CHECKED** SB | LP

0 10 20 40M

Do not scale - use dimensions & callouts on drawings & schedules. Refer discrepancies to Landscape Architect for clarification.

STATUS

FOR DEVELOPMENT APPLICATION

NOT FOR CONSTRUCTION

DRAWING

TREE PROTECTION ZONE PLAN

DRAWING NO. LA_1104

REVISION A

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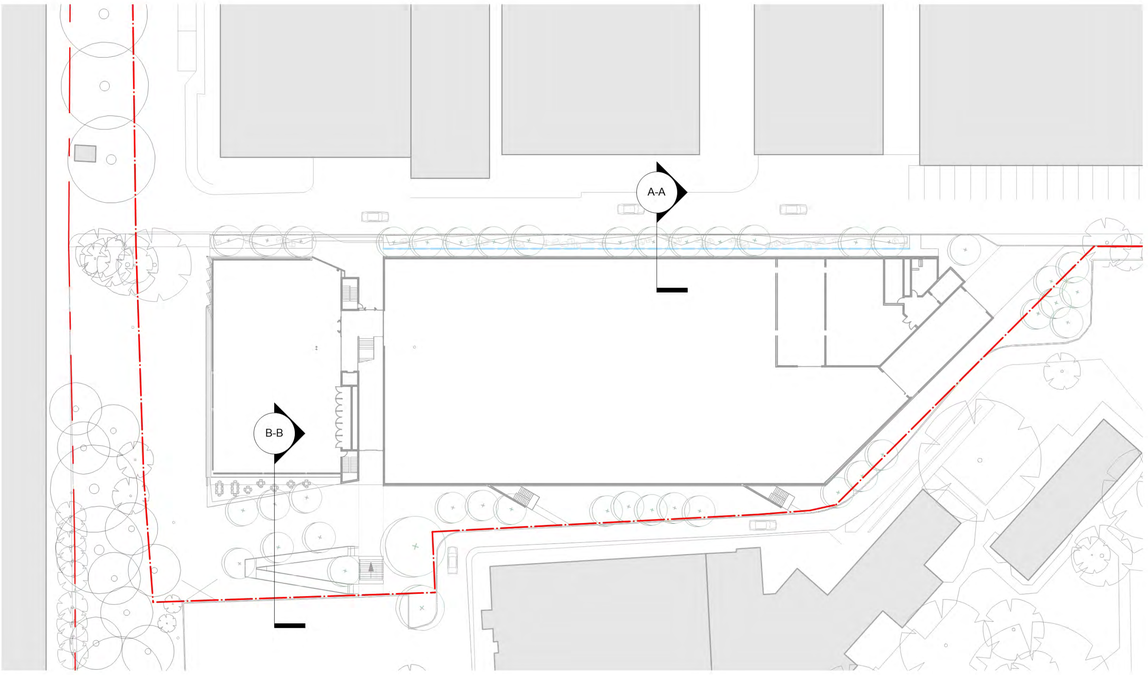

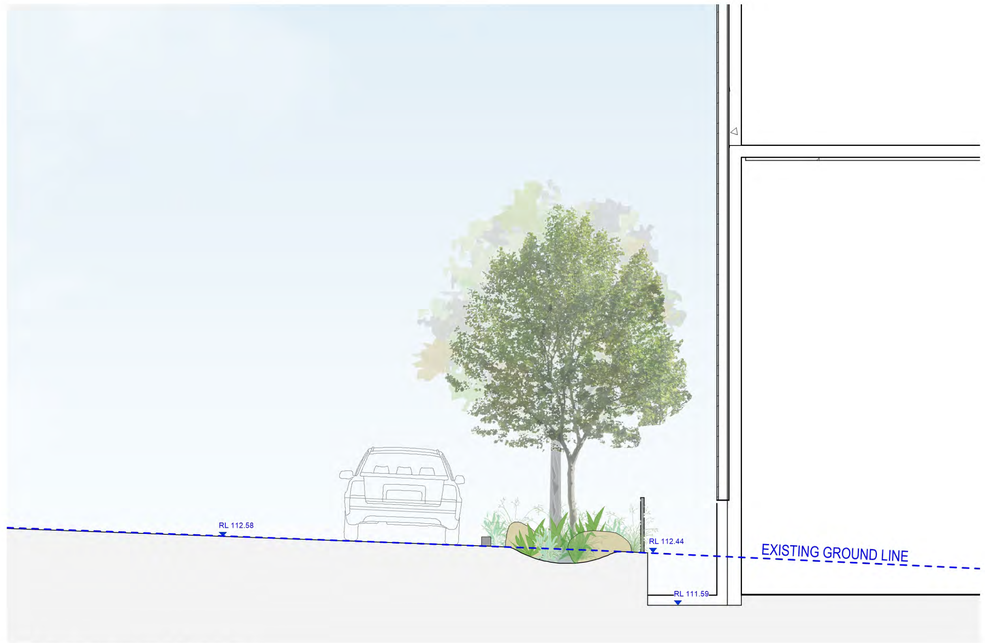

A-A MDC ACCESS ROAD | WSUD
1:50 @ A1

B-B STAFF BREAKOUT SPACE | RAMP
1:50 @ A1

Planning, Industry & Environment

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Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW **Sheet No: 19 of 28**

WARNING

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NOTES / KEY PLAN

DATE	REV	AMENDMENTS
7/31/20	A	DRAFT SSDA ISSUE
8/7/20	B	SSDA ISSUE

ARCHITECTS

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PROJECT S19107
MUSEUM DISCOVERY CENTRE | BUILDING J SSDA

CLIENT
Create NSW Arts, Screen & Culture

NORTH

SCALE A1 | SCALE A3
1:50 1:100

DRAWN JT | SB **CHECKED** SB | JK

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STATUS
FOR DEVELOPMENT APPLICATION
NOT FOR CONSTRUCTION

DRAWING
LANDSCAPE SECTIONS

DRAWING NO. LA_3000

REVISION B

X00000\05_PRODUCTION\01_Phase\01_CAD\Package Files\

POWERHOUSE MUSEUM DISCOVERY CENTRE

172 SHOWGROUND RD, CASTLE HILL NSW 2154
CIVIL ENGINEERING WORKS PACKAGE

SOURCE : NEARMAP.COM.AU (©2018)

DRAWING SCHEDULE

DRG No.	DRAWING TITLE
DA1.01	COVERSHEET, DRAWING SCHEDULE AND LOCALITY PLAN
DA1.11	GENERAL ARRANGEMENT PLAN
DA2.01	CONCEPT SEDIMENT AND EROSION CONTROL PLAN
DA2.11	SEDIMENT AND EROSION CONTROL DETAILS
DA2.21	BULK EARTHWORKS PLAN
DA3.01	SITEWORKS AND STORMWATER MANAGEMENT PLAN
DA3.02	SITEWORKS AND STORMWATER MANGEMENT PLAN - SHEET 2
DA3.11	CARPARK TURNING PATHS
DA4.01	OSD DETAILS - SHEET 1
DA4.02	OSD DETAILS - SHEET 2

NSW GOVERNMENT | Planning, Industry & Environment

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Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW **Sheet No: 20 of 28**

DRAWN: J.PHILLIPS DESIGNED: E.FLACK JOB MANAGER: E.FLACK VERIFIER: -

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
1	ISSUED FOR SSDA COORDINATION	E.F		E.F	26.06.20
2	RE - ISSUED FOR SSDA COORDINATION	J.P		E.F	24.07.20
3	ISSUED FOR SSDA	J.P		E.F	14.01.21

CLIENT: NSW GOVERNMENT Planning & Environment

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ARCHITECT: lahznimmo architects

ALL SETOUT TO ARCHITECT'S DRAWINGS, DIMENSIONS TO BE VERIFIED WITH THE ARCHITECT AND ON SITE BEFORE MAKING SHOP DRAWINGS OR COMMENCING WORK.
NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.

SCALE 1:1250 @ A1 (0 10 20 30 40 50 60m)

NORTHROP
Wollongong
Level 1, 57 Kembla Street, Wollongong NSW 2500
Ph (02) 4226 3333 Fax (02) 4226 3666
P.O. Box 863, Wollongong, NSW 2500
Email southcoast@northrop.com.au ABN 81 094 433 100

PROJECT: POWERHOUSE MUSEUM DISCOVERY CENTRE

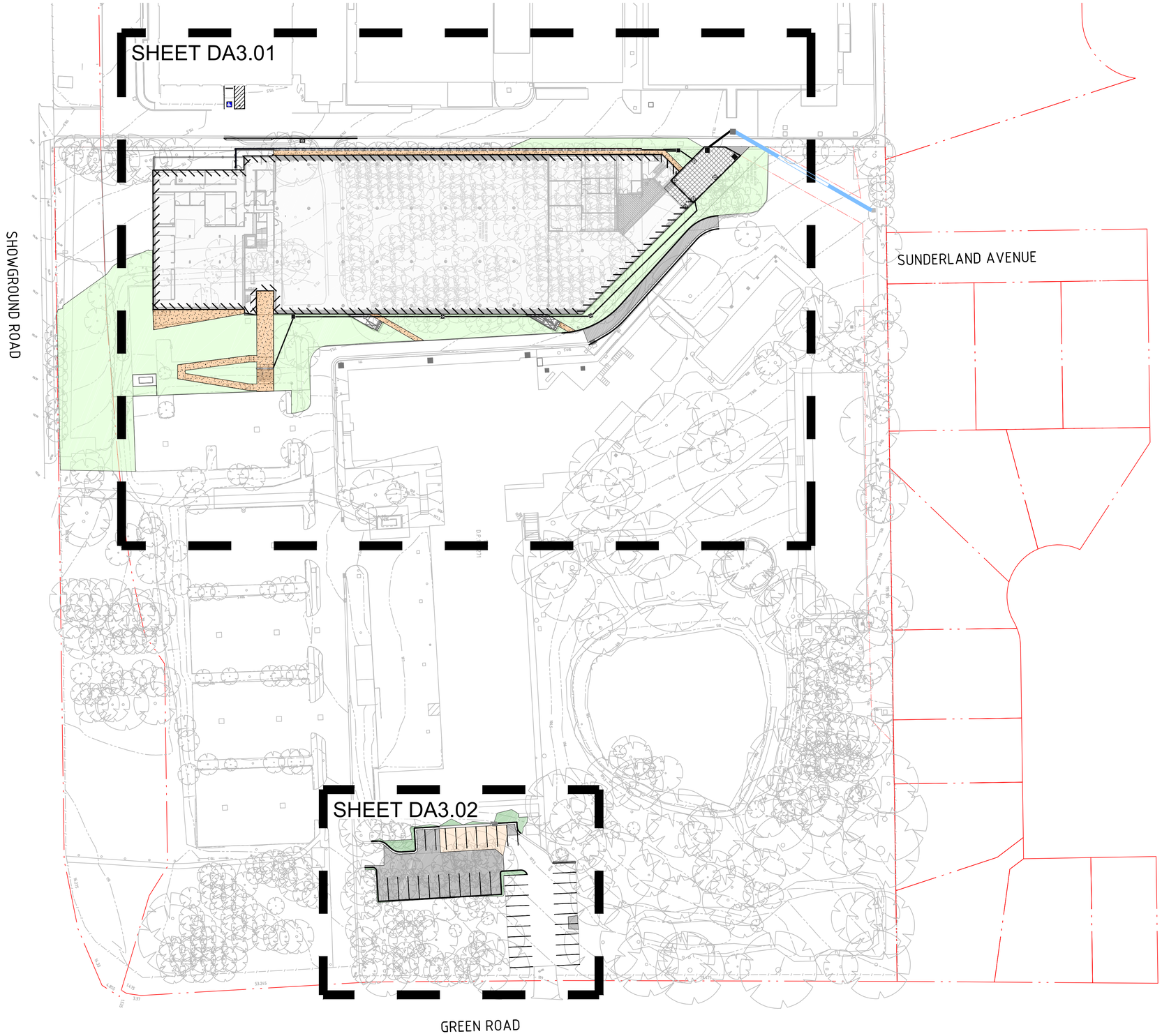
DRAWING TITLE: COVERSHEET, DRAWING SCHEDULE AND LOCALITY PLAN

JOB NUMBER: 181569

DRAWING NUMBER: DA1.01 REVISION: 3

DRAWING SHEET SIZE = A1

Date : 14-7-21 11:51am Plotted By : jphillips Found : W:\#jobs\2018\181569 - Powerhouse Museum\D-Drawings\D-Northrop\C-CIVIL\2-CURRENT CAD FILES\SSDA\181569_DA101_COVERSHEET, DRAWING SCHEDULE AND LOCALITY PLAN.dwg



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Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW **Sheet No: 21 of 28**

DRAWN: J.PHILLIPS DESIGNED: E.FLACK JOB MANAGER: E.FLACK VERIFIER:-

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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
1	ISSUED FOR SSDA COORDINATION	E.F		E.F	26.06.20
2	RE - ISSUED FOR SSDA COORDINATION	J.P		E.F	24.07.20
3	ISSUED FOR SSDA	J.P		E.F	14.01.21

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ARCHITECT: lahznimmo architects

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PROJECT: POWERHOUSE MUSEUM DISCOVERY CENTRE

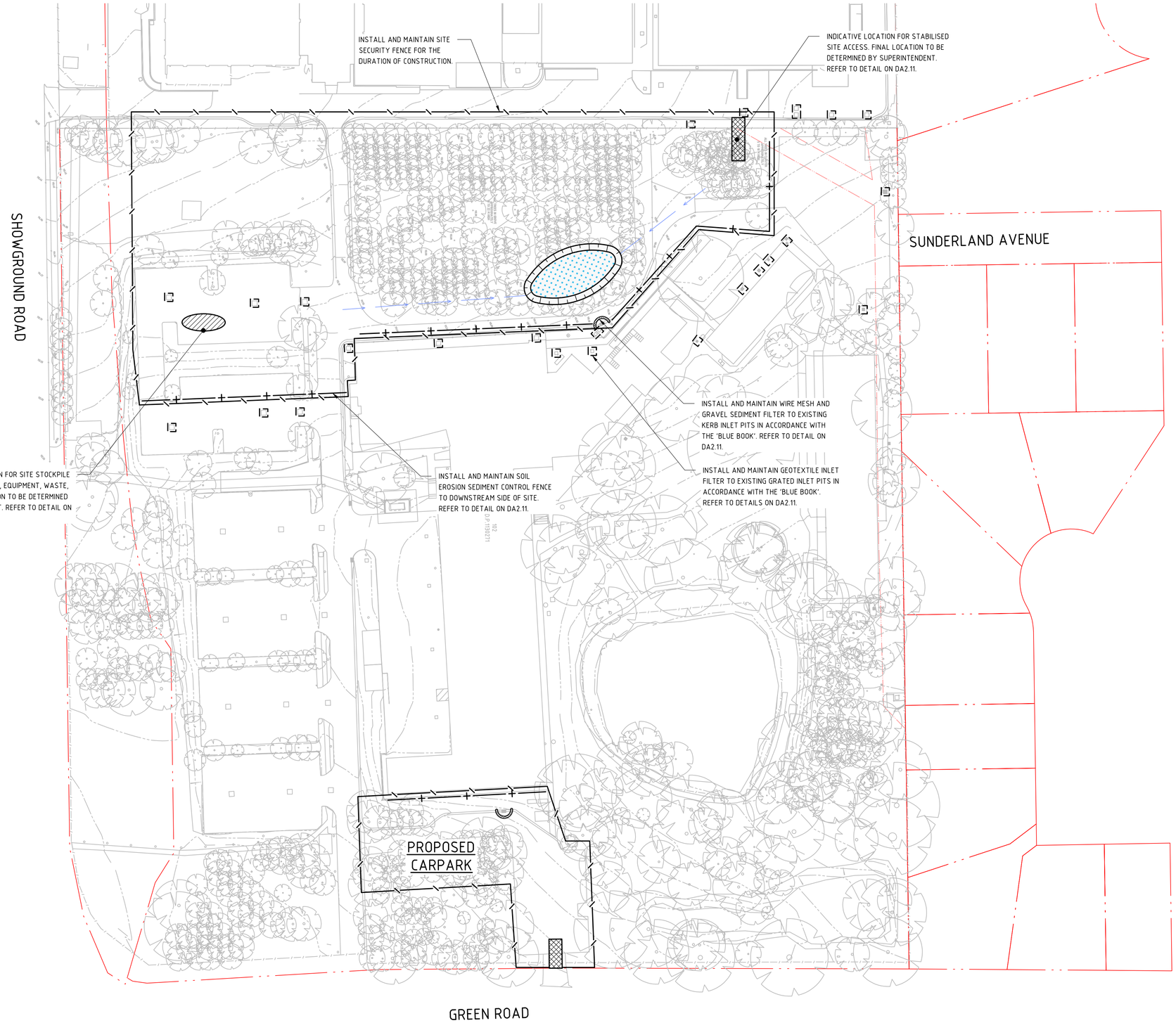
DRAWING TITLE: GENERAL ARRANGEMENT PLAN

JOB NUMBER: 181569

DRAWING NUMBER: DA1.11 REVISION: 3

DRAWING SHEET SIZE = A1

Date : 14-1-21 11:52am Plotted By : jphillips Found : W:\Jobs\2018\181569 - Powerhouse Museum\D-Drawings\D-Northrop\C-CIVIL\2-CURRENT CAD FILES\SSDA\181569_DA111_GENERAL ARRANGEMENT PLAN.dwg



LEGEND

- PROPOSED BOUNDARY LINE
- EASEMENT LINE
- EXISTING CONTOURS
- SEDIMENT FENCE
- SECURITY FENCE
- WIRE MESH AND GRAVEL SEDIMENT FILTER
- DROP INLET SEDIMENT TRAP
- STABILISED SITE ACCESS
- STOCKPILE
- SEDIMENT BASIN

GENERAL NOTES:

1. REFER SPECIFICATIONS NOTES FOR SEDIMENT AND SOIL EROSION CONTROL GENERAL REQUIREMENTS.
2. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
3. 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.
4. CONTRACTOR TO PROVIDE 'WIRE MESH AND GRAVEL SEDIMENT FILTER' TO ALL PAVED / ROAD AREAS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
5. CONTRACTOR TO PROVIDE 'GEOTEXTILE INLET FILTER TRAPS' TO ALL STORMWATER DRAINAGE INLETS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'
6. SEDIMENT BASIN SIZING BASED ON 5 DAY, 85TH PERCENTILE DESIGN RAINFALL EVENT.

6.1. SEDIMENT BASIN CALCS

SOIL TYPE D

$V_{REQUIRED}$, V_{SB} = 14.5m³

$V_{PROVIDED}$ = 14.7m³

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PROJECT: POWERHOUSE MUSEUM DISCOVERY CENTRE

DRAWING TITLE: CONCEPT SEDIMENT AND EROSION CONTROL PLAN

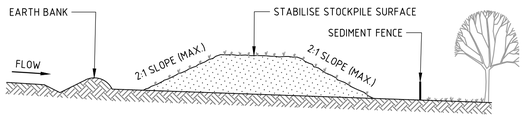
JOB NUMBER: 181569

DRAWING NUMBER: DA2.01 REVISION: 3

DRAWING SHEET SIZE = A1

DRAWN: J.PHILLIPS DESIGNED: E.FLACK JOB MANAGER: E.FLACK VERIFIER: -

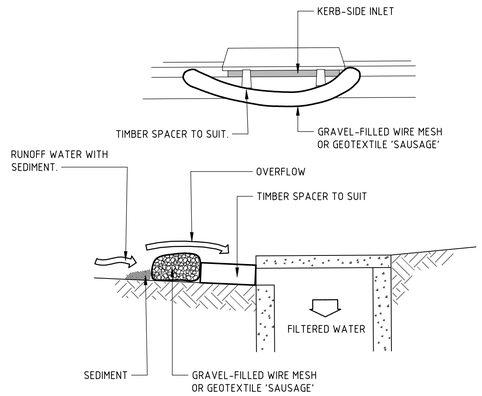
Date: 14-1-21 11:52am Plotted By: jphillips Found: W:\#jobs\2018\181569 - Powerhouse Museum\D-Drawings\D-Northrop\C-CIVIL\2-CURRENT CAD FILES\SSDA\181569_DA2.01_CONCEPT SEDIMENT AND EROSION CONTROL PLAN.dwg



CONSTRUCTION NOTES

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

STOCKPILES (SD 4-1)

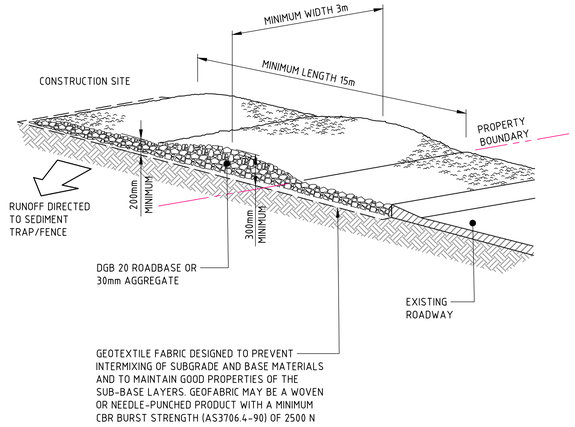


NOTE:THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN APPROVED SWMP/ESCP.

CONSTRUCTION NOTES

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

MESH AND GRAVEL INLET FILTER (SD 6-11)



CONSTRUCTION NOTES

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

STABILISED SITE ACCESS (SD 6-14)

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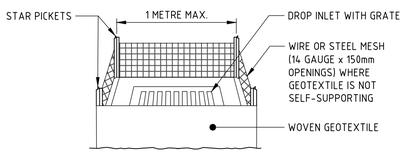
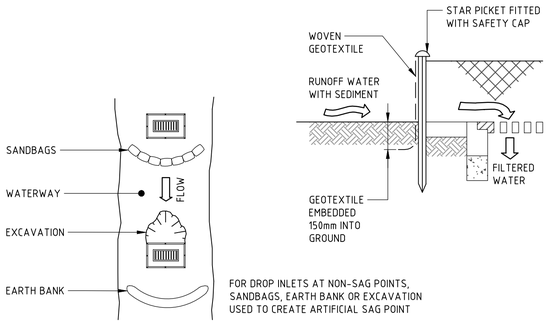


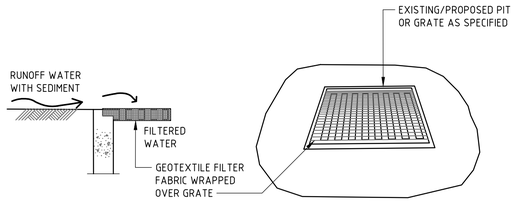


FOR DROP INLETS AT NON-SAG POINTS, SANDBAGS, EARTH BANK OR EXCAVATION USED TO CREATE ARTIFICIAL SAG POINT

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. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE FILTER MATERIAL.
2. GEOTEXTILE PIT FILTERS TO BE USED ON PIT LOCATED ON ROAD LANEWAY SURFACE.

GEOTEXTILE FILTER WRAP

SWMP Commentary, Detailed Calculations

4. Volume of Sediment Basins, *Type D* and *Type F* Soils

Basin volume = settling zone volume + sediment storage zone volume

Settling Zone Volume

The settling zone volume for *Type F* and *Type D* soils is calculated to provide capacity to contain all runoff expected from up to the *y*-percentile rainfall event. The volume of the basin's settling zone (*V*) can be determined as a function of the basin's surface area and depth to allow for particles to settle and can be determined by the following equation:

$$V = 10 \times C_v \times A \times R_{x\text{-day},\ y\text{-}\%ile}\ (m^3)$$

where:

10 = a unit conversion factor

C_v = the volumetric runoff coefficient defined as that portion of rainfall that runs off as stormwater over the x-day period

$R_{x\text{-day},\ y\text{-}\%ile}$ = is the x-day total rainfall depth (mm) that is not exceeded in y percent of rainfall events. (See Sections 6.3.4(d), (e), (f), (g) and (h)).

A = total catchment area (ha)

Sediment Storage Zone Volume

In the detailed calculation on Soil Loss Classes 1 to 4 lands, the sediment storage zone can be taken as 50 percent of the settling zone capacity. Alternately designers can design the zone to store the 2-month soil loss as calculated by the RUSLE (Section 6.3.4(i)(ii)). However, on Soil Loss Classes 5, 6 and 7 lands, the zone must contain the 2-month soil loss as calculated by the RUSLE (Section 6.3.4(i)(iii).

Place an "X" in the box below to show the sediment storage zone design parameters used here:

x	50% of settling zone capacity,
	2 months soil loss calculated by RUSLE

Total Basin Volume

Site	C_v	$R_{x\text{-day},\ y\text{-}\%ile}$	Total catchment area (ha)	Settling zone volume (m^3)	Sediment storage volume (m^3)	Total basin volume (m^3)
Bdg J	0.64	32.2	0.47	96.8576	48	145.2864

Note that designers should achieve a minimum 3:1 length:width ratio in Type D or F basins

Sediment_Basin_Design_Detailed_V6 1

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PROJECT: POWERHOUSE MUSEUM DISCOVERY CENTRE

DRAWING TITLE: SEDIMENT AND EROSION CONTROL DETAILS

JOB NUMBER: 181569

DRAWING NUMBER: DA2.11 REVISION: 3

DRAWING SHEET SIZE = A1

VERIFIER: - JOB MANAGER: E.FLACK DESIGNED: E.FLACK DRAWN: J.PHILLIPS

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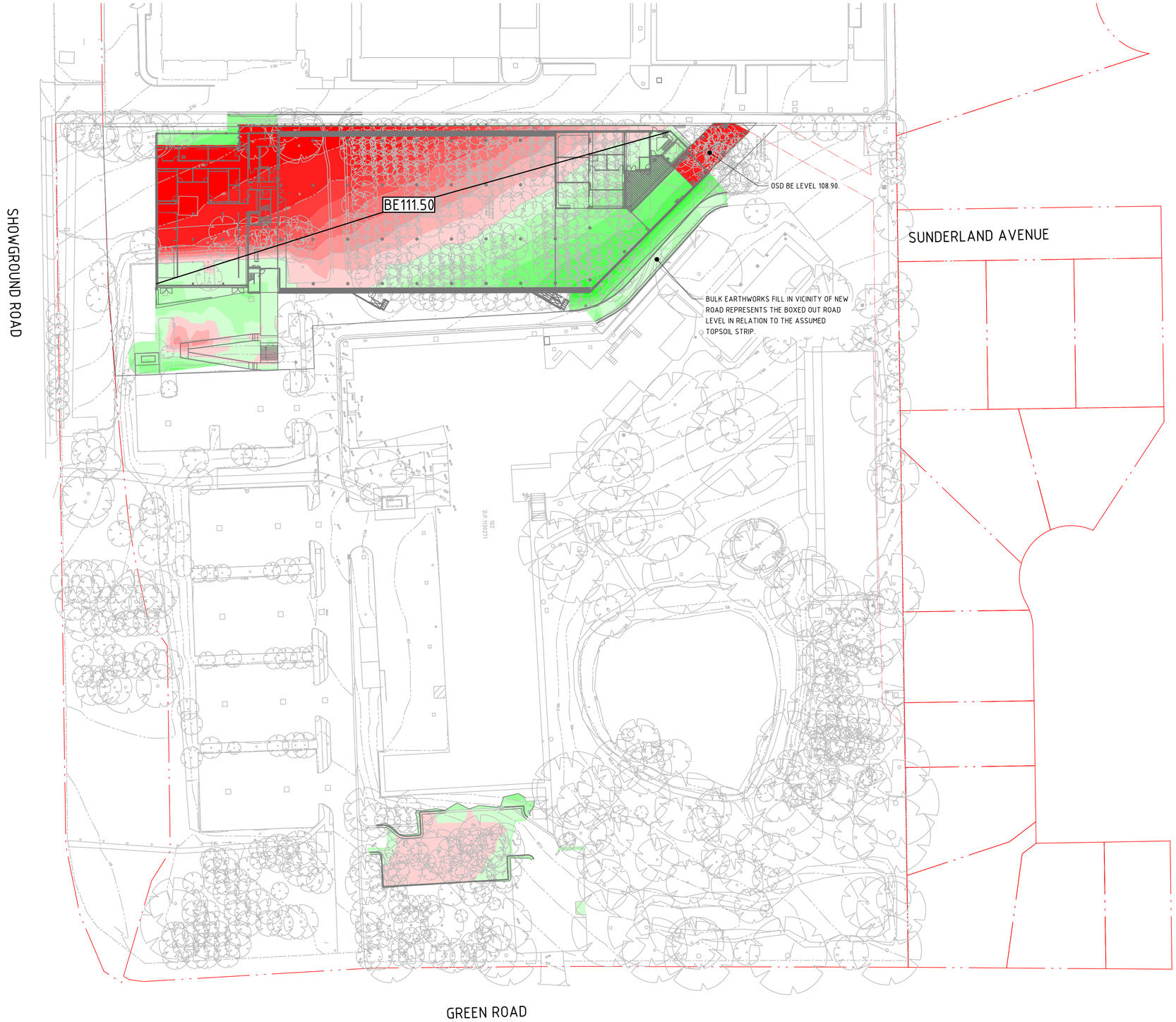

LEGEND

BOUNDARY LINE

BEXX.XX — BULK EARTHWORKS PAD LEVEL

XXXX — CONTOURS

DEPTH OF CUT

- -3.5m TO -2.0m
- -2.0m TO -1.5m
- -1.5m TO -1.25m
- -1.25m TO -1.0m
- -1.0m TO -0.75m
- -0.75m TO -0.5m
- -0.5m TO -0.25m
- -0.25m TO -0.0m

DEPTH OF FILL

- 0.0m TO 0.25m
- 0.25m TO 0.5m
- 0.5m TO 0.75m
- 0.75m TO 1.0m
- 1.0m TO 1.25m
- 1.0m TO 1.50m

GENERAL NOTES:

1. REFER SPECIFICATIONS NOTES FOR EARTHWORKS GENERAL REQUIREMENTS.
2. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
3. CAD FILES / DTM FILES TO BE SUPPLIED IN AUTOCAD FORMAT FOR SETOUT PURPOSES (UPON REQUEST).
4. NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS. NOTE ALL VOLUMES DEPICTED ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAILED EARTHWORKS.
5. NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS; ie SERVICE TRENCHING, DETAILED EXCAVATION, FOOTINGS, RETAINING WALLS, TEMPORARY BATTERS AND THE LIKE. CONTRACTOR IS TO ALLOW FOR REMOVAL OF ALL EXCESS MATERIAL GENERATED BY THE WORKS.
6. REFER TO STRUCTURAL ENGINEERS DRAWINGS FOR SHORING WALL DETAILS.
7. THE CONTRACTOR SHALL USE FINAL SURFACE LEVELS AND TYPICAL PAVEMENT DETAILS FOR ACTUAL EARTHWORKS LEVELS.
8. BULK EARTHWORKS ARE BASED ON THE FOLLOWING DEPTHS FROM FINISHED SURFACE LEVELS;
   - 8.1. ASPHALT PAVEMENT 330mm
   - 8.2. BUILDING SLAB 150mm (REFER STRUCTURAL DWGS)
   - 8.3. FOOTPATH PAVEMENT 200mm
   - 8.4. LANDSCAPE AREA NO ALLOWANCE HAS BEEN MADE FOR EARTHWORKS IN LANDSCAPED AREAS
9. APPROXIMATE BULK EARTHWORK VALUES AS FOLLOWS;
   - 9.1. CUT ~3610 cu.m
   - 9.2. FILL 1192 cu.m
   - 9.3. BALANCE ~2418 cu.m CUT
   - 9.4. NOTE: SITE STRIPPING VOLUMES ARE SEPARATE TO ABOVE CALCULATIONS.
   - 9.5. SITE STRIPPING VOLUME DEPTH ~2739 cu.m CUT
   - 9.6. STRIP EXISTING TOPSOIL AND FILL IN CONSULTATION WITH THE GEOTECHNICAL ENGINEER/REPORT. FOR THE PURPOSES OF EARTHWORKS CALCULATIONS A TOPSOIL STRIPPING DEPTH OF 600mm HAS BEEN ASSUMED.

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Approved Application No: SSD 10472

Granted on: 23 April 2021

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3	RE - ISSUED FOR SSDA COORDINATION	J.P		E.F	22.07.20
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PROJECT: POWERHOUSE MUSEUM DISCOVERY CENTRE

DRAWING TITLE: BULK EARTHWORKS PLAN

JOB NUMBER: 181569

DRAWING NUMBER: DA2.21 REVISION: 5

DRAWING SHEET SIZE = A1

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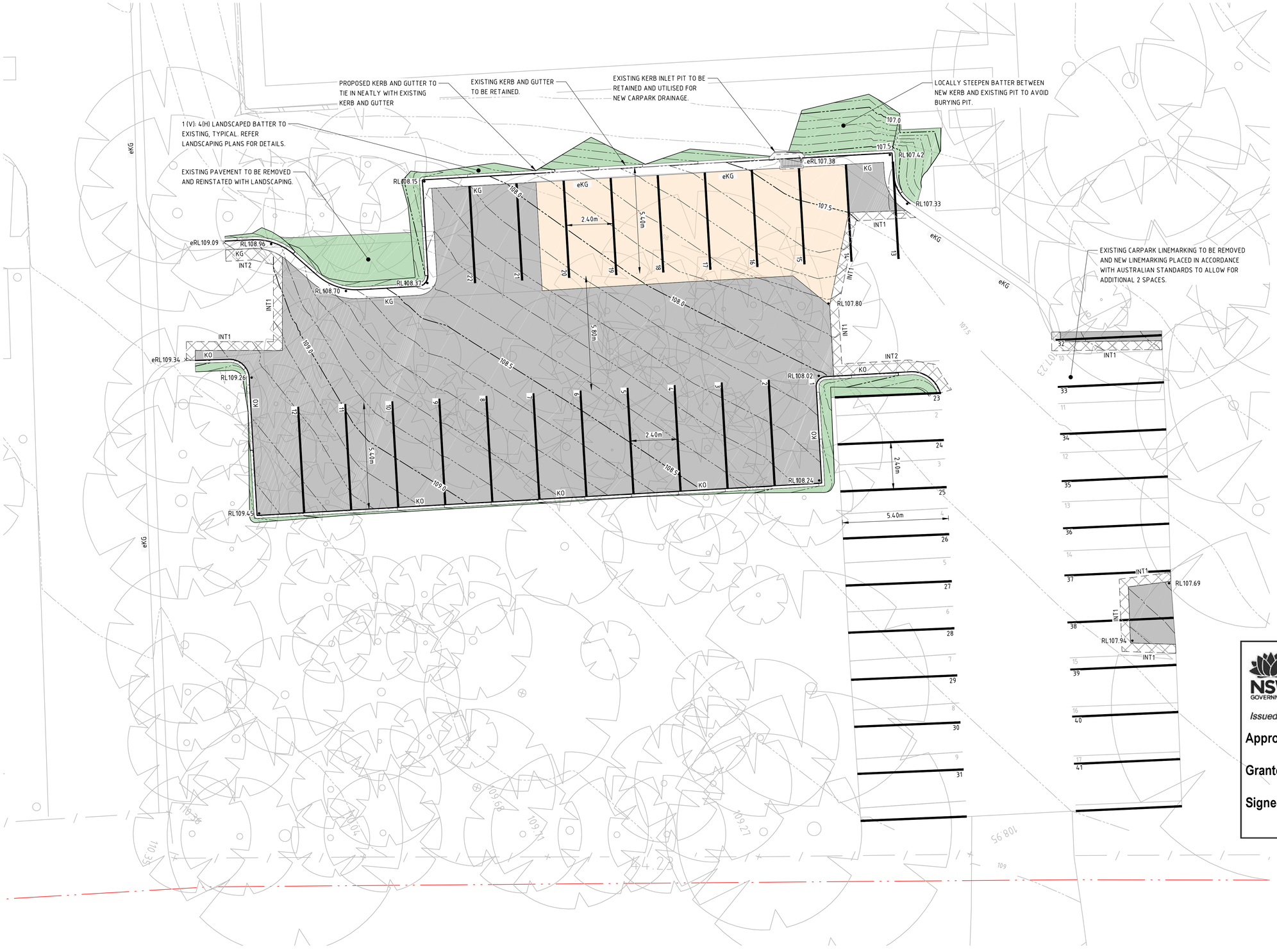

LEGEND

- BOUNDARY LINE
- EXISTING CONTOURS (0.5m INTERVALS)
- PROPOSED CONTOURS (0.1m INTERVALS)
- KERB INLET PIT (EXTG)
- eKG — EXISTING KERB AND GUTTER
- KG — PROPOSED KERB AND GUTTER
- KO — PROPOSED KERB ONLY
- × eRL.XX.XX — EXISTING SPOT HEIGHT
- • RL.XX.XX — PROPOSED SPOT HEIGHT
- PAVEMENT INTERFACE
- PROPOSED ASPHALT - PAVEMENT TYPE 1
- PROPOSED MILL AND RESHEET - PAVEMENT TYPE 2
- LANDSCAPING

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Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW **Sheet No: 25 of 28**

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PROJECT: POWERHOUSE MUSEUM DISCOVERY CENTRE

DRAWING TITLE: SITEWORKS AND STORMWATER MANGEMENT PLAN - SHEET 2

JOB NUMBER: 181569

DRAWING NUMBER: DA3.02 REVISION: 4

DRAWING SHEET SIZE = A1

DRAWN: J.PHILLIPS DESIGNED: E.FLACK JOB MANAGER: E.FLACK VERIFIER: -

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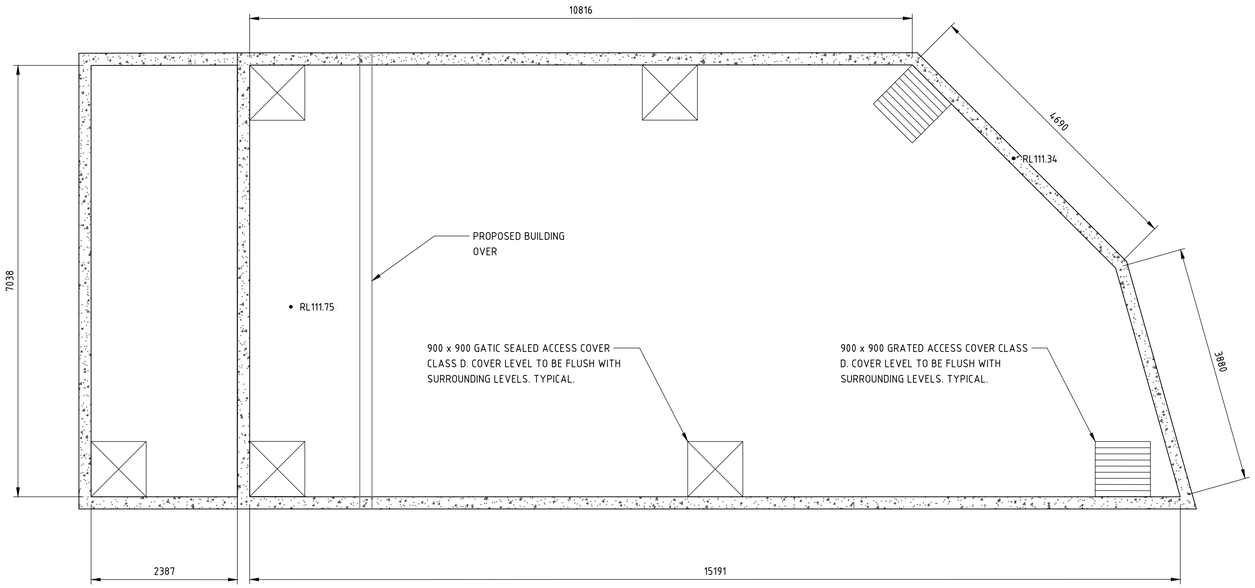
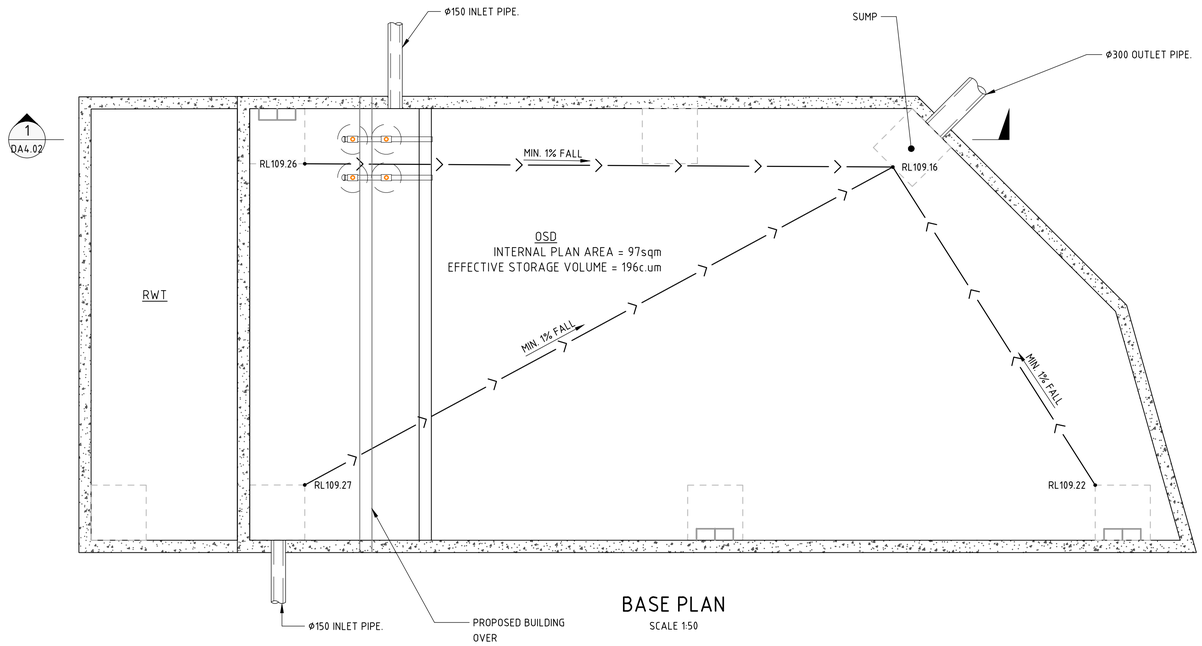


ROOF PLAN

SCALE 1:50



BASE PLAN

SCALE 1:50

DESIGN SUMMARY

CATCHMENT CALCULATIONS:

	PRE-DEVELOPMENT	POST-DEVELOPMENT
TOTAL AREA	4781m²	4781m²
IMPERVIOUS AREA	1080m² (23%)	4781m² (100%)
PERVIOUS AREA	3701m² (77%)	0m² (0%)

ON-SITE DETENTION:

DESIGN BASIS:
- COUNCIL GUIDELINES BASED ON UPPER PARRAMATTA RIVER CATCHMENT TRUST OSD HANDBOOK

AVERAGE SITE SLOPE = 5%

HAWKESBURY CATCHMENT STORAGE RATE = 396m³/ha

THEREFORE SITE STORAGE REQUIREMENT = 190m³
ON-SITE DETENTION STORAGE PROVIDED = 196m³

HAWKESBURY CATCHMENT DISCHARGE RATE = 92L/s/ha

THEREFORE PERMITTED SITE DISCHARGE = 44L/s

ON-SITE DETENTION SUMMARY:
- BELOW GROUND BLOCK WORK TANK

ORIFICE DIAMETER ORIGINALLY CALCULATED USING THE UPRCT METHOD, THEN ASSESSED AND ADJUSTED USING DRAINS MODELLING SOFTWARE TO ACCOUNT FOR THE DOWNSTREAM TAIL WATER LEVEL (109.80), ENSURING COMPLIANCE WITH THE PSD.

TOP WATER LEVEL = 111.15
ORIFICE CENTRELINE = 109.31
ORIFICE DIAMETER = 125mm

SITE DISCHARGE CALCULATIONS:

	10 YEAR ARI	100 YEAR ARI
WITHOUT OSD	180 L/s	277 L/s
WITH OSD	30 L/s	40 L/s

WATER QUALITY:

MUSIC MODEL SUMMARY:

SOURCE NODE	CATCHMENT	AREA
URBAN	ROOF AREA 1	4380m²
URBAN	PAVED AREA 1	87m²
URBAN	PAVED AREA 2	314m²
		TOTAL 4781m²

TREATMENT NODES:

- RAINWATER RE-USE TANK
- ON-SITE DETENTION TANK
- OCEAN PROTECT 'STORMFILTER 690mm PSorb' x4
- OCEAN PROTECT 'OCEAN GUARD' x2

TREATMENT STANDARDS:

POLLUTANT	REDUCTION STANDARDS	REDUCTION ACHIEVED
GROSS POLLUTANTS	90%	100%
TOTAL SUSPENDED SOLIDS	80%	80.8%
TOTAL PHOSPHORUS	60%	67.3%
TOTAL NITROGEN	45%	51.3%

MUSIC MODEL PARAMETERS IN ACCORDANCE WITH THE NSW MUSIC MODELLING GUIDELINES REF: R.B17048.001.05 DATED AUGUST 2015.

NSW GOVERNMENT | Planning, Industry & Environment

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No: SSD 10472

Granted on: 23 April 2021

Signed: AW Sheet No: 26 of 28

NOT FOR CONSTRUCTION

DRAWN: J.PHILLIPS DESIGNED: E.FLACK JOB MANAGER: E.FLACK VERIFIER: -

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
1	ISSUED FOR SSDA COORDINATION	E.F		E.F	26.06.20
2	RE - ISSUED FOR SSDA COORDINATION	J.P		E.F	24.07.20
3	ISSUED FOR SSDA	J.P		E.F	14.01.21

CLIENT: NSW GOVERNMENT Planning & Environment

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ARCHITECT: lahznimmo architects

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Email southcoast@northrop.com.au ABN 81 094 433 100

PROJECT: POWERHOUSE MUSEUM DISCOVERY CENTRE

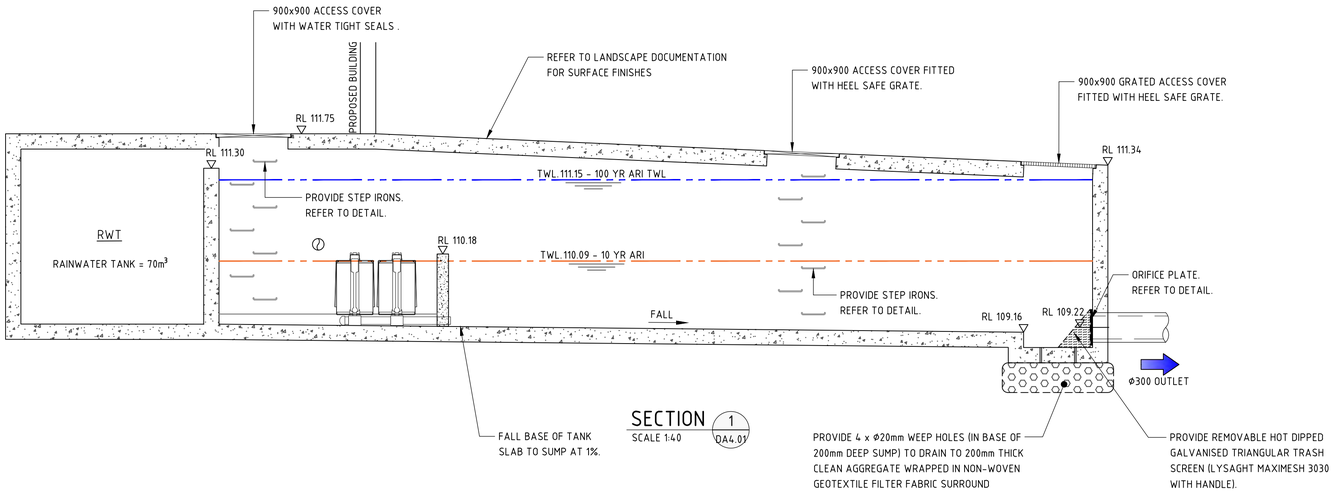
DRAWING TITLE: OSD DETAILS - SHEET 1

JOB NUMBER: 181569

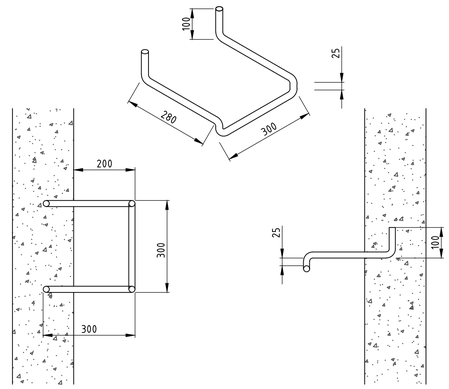
DRAWING NUMBER: DA4.01 REVISION: 3

DRAWING SHEET SIZE = A1

Date: 14-1-21 3:58pm Plotted By: jphillips Found: W:\Mjobs\2018\181569 - Powerhouse Museum\0-Drawings\0-Northrop\C-CIVIL\2-CURRENT CAD FILES\SSDA\181569_DA4.01_OSD DETAILS - SHEET 1.dwg

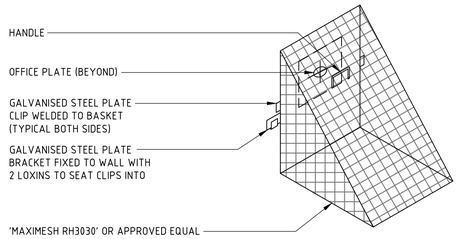


SECTION 1 DA4.01
SCALE 1:40

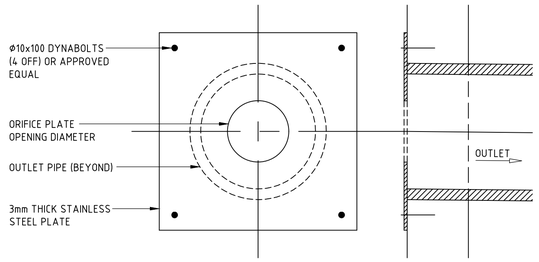


STEP IRON DETAIL

STEP IRON OF 20mm GALVANISED STEEL MADE TO SHAPE AND DIMENSIONS AS SHOWN, PLACED AT 300 CENTRES AND STAGGERED HORIZONTALLY FOR ALL PITS DEEPER THAN 1.0m. THE USE OF PROPRIETARY STEP IRONS ARE ACCEPTABLE PROVIDED THE PRODUCT IS IN ACCORDANCE WITH AUSTRALIAN STANDARDS



TRASH SCREEN DETAIL



ORIFICE PLATE DETAIL

- ORIFICE PLATE - Ø 125mm

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DRAWN: J.PHILLIPS DESIGNED: E.FLACK JOB MANAGER: E.FLACK VERIFIER: -

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1	ISSUED FOR SSDA COORDINATION	E.F		E.F	26.06.20
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PROJECT: POWERHOUSE MUSEUM DISCOVERY CENTRE

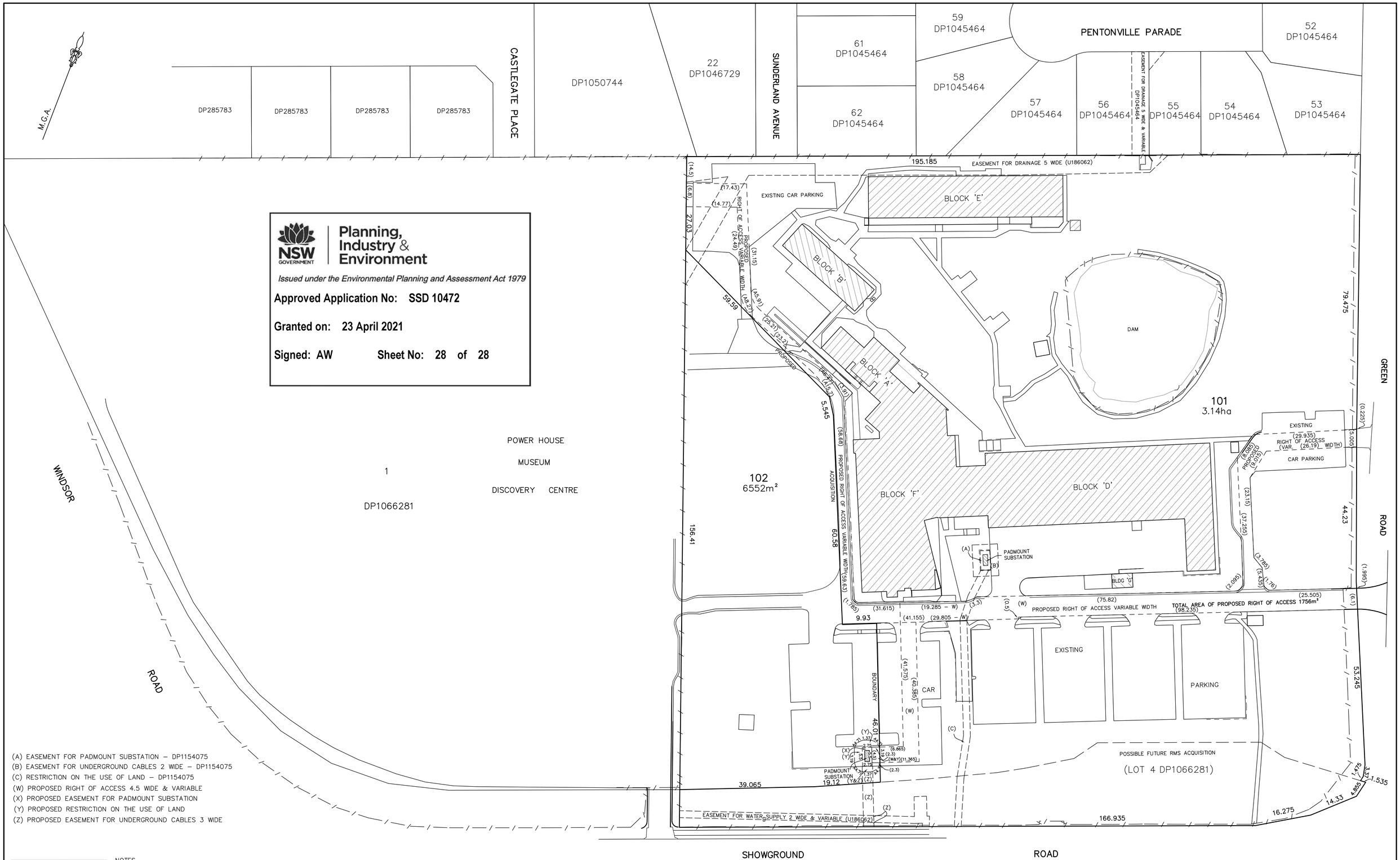
DRAWING TITLE: OSD DETAILS - SHEET 2

JOB NUMBER: 181569

DRAWING NUMBER: DA4.02 REVISION: 3

DRAWING SHEET SIZE = A1

Date: 14.-1-21 3:59pm Plotted By: jphillips Found: W:\Jobs\2018\181569 - Powerhouse Museum\D-Drawings\D-Northrop\C-CIVIL\2-CURRENT CAD FILES\SSDA\181569_DA4.02_OSD DETAILS - SHEET 2.dwg



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Signed: AW Sheet No: 28 of 28

(A) EASEMENT FOR PADMOUNT SUBSTATION – DP1154075
(B) EASEMENT FOR UNDERGROUND CABLES 2 WIDE – DP1154075
(C) RESTRICTION ON THE USE OF LAND – DP1154075
(W) PROPOSED RIGHT OF ACCESS 4.5 WIDE & VARIABLE
(X) PROPOSED EASEMENT FOR PADMOUNT SUBSTATION
(Y) PROPOSED RESTRICTION ON THE USE OF LAND
(Z) PROPOSED EASEMENT FOR UNDERGROUND CABLES 3 WIDE

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NOTES

1. REFER TO YSCO GEOMATICS PLAN REF: 98148/14 FOR SITE DETAIL OVER TAFE SITE.
2. PROPOSED BOUNDARY DIMENSIONS AND AREAS ARE SUBJECT TO FINAL SURVEY AND REGISTRATION OF THE PLAN OF ACQUISITION AND ISSUE OF TITLE AT NSW LAND REGISTRY SERVICES.
3. BOUNDARIES INDICATED ARE ACCURATE FOR D.A. PURPOSES.

DATE	REVISIONS	BY
08/9/20	PROPOSED SUBSTATION & ASSOC. EASEMENTS ADDED.	P.Y.
21/7/20	PROPOSED RIGHT OF ACCESS REVN.	P.Y.
20/7/20	PROPOSED BOUNDARY REVISION	P.Y.

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GEOMATIC ENGINEERING
LAND & ENGINEERING SURVEYING
PROJECT MANAGEMENT
SOIL AND WATER MANAGEMENT
ENVIRONMENTAL PLANNING & DESIGN

PLAN SHOWING PROPOSED ACQUISITION OF LAND AT CASTLE HILL TAFE COLLEGE, GREEN ROAD, CASTLE HILL, BEING LOT 102 IN DP 1130271 IN THE HILLS SHIRE L.G.A.

DRAWN:	CHECKED:	SCALE:	DATUM:	REFERENCE:
15TH JULY 2020	P.Y.	1:500 @ A1	–	98148/15C