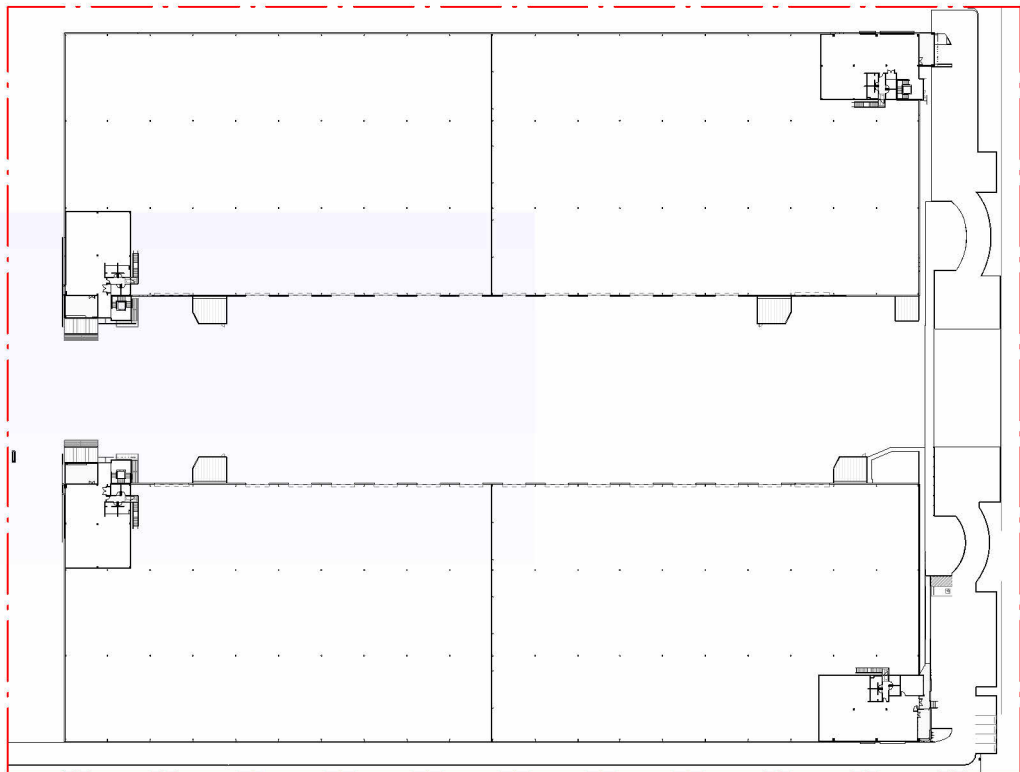
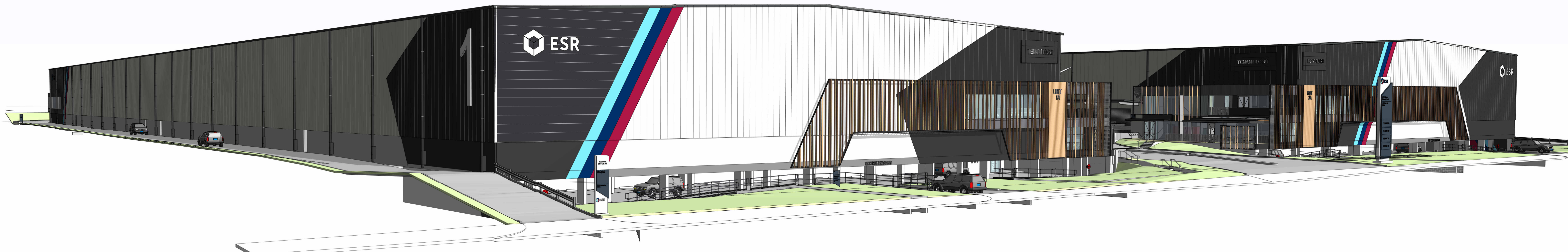
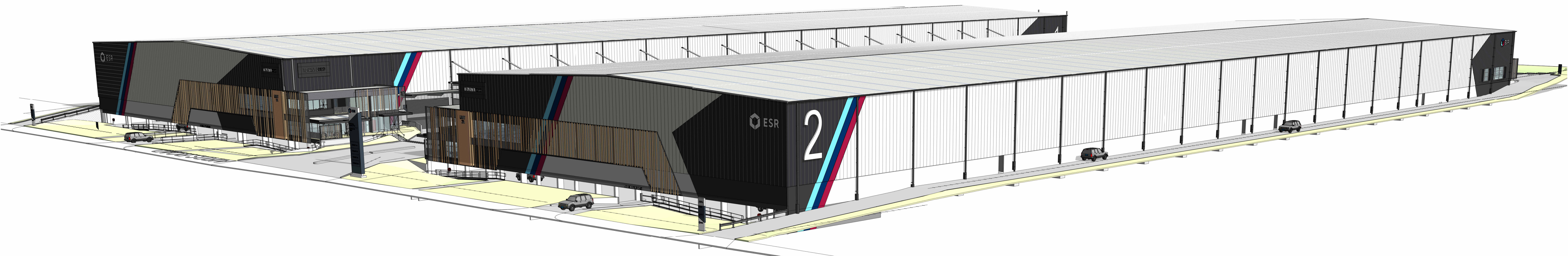


1 3D SITE OVERALL PERSPECTIVE - EAST

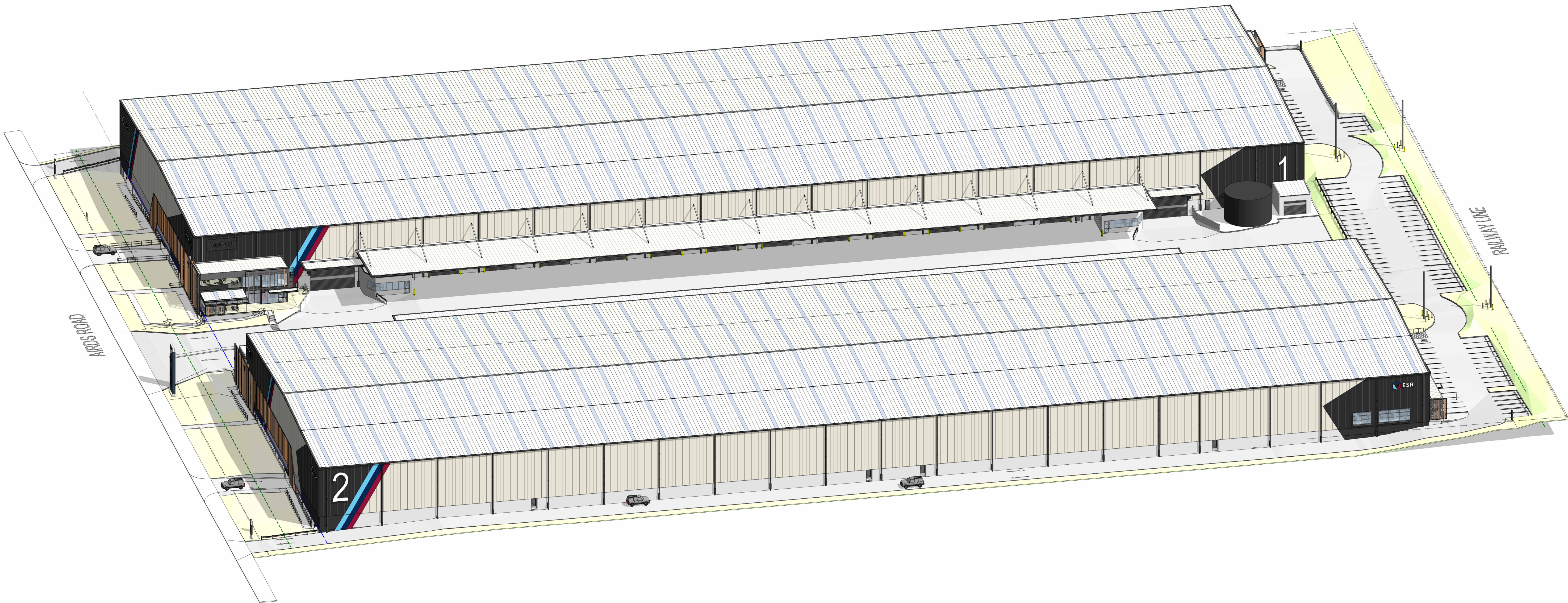
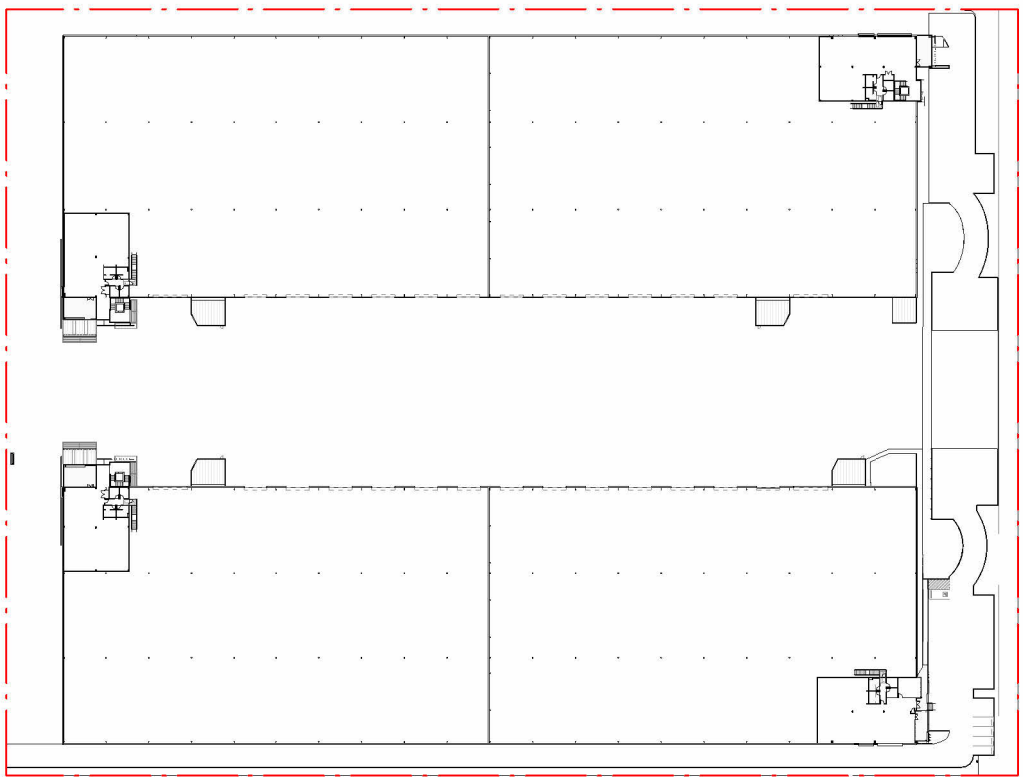


2 3D SITE OVERALL - NORTHWEST



3 3D SITE OVERALL - NORTHEAST

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ISSUED FOR DA



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D ISSUED FOR DA
C ISSUED FOR DA
B ISSUED FOR DA
A ISSUED FOR DA
P3 DRAFT DA ISSUED FOR REVIEW
P2 ISSUED FOR REVIEW
DESCRIPTION

14.06.24
20.05.23
16.05.24
15.03.24
08.12.23
24.11.23
15.09.2023
DATE

CLIENT



ESR MINTO DEVELOPMENT

50-52 AIRDS ROAD, MINTO, NSW

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TITLE

3D VIEW OVERALL SITE

DATE
14.06.24

SCALE

PROJECT NO.

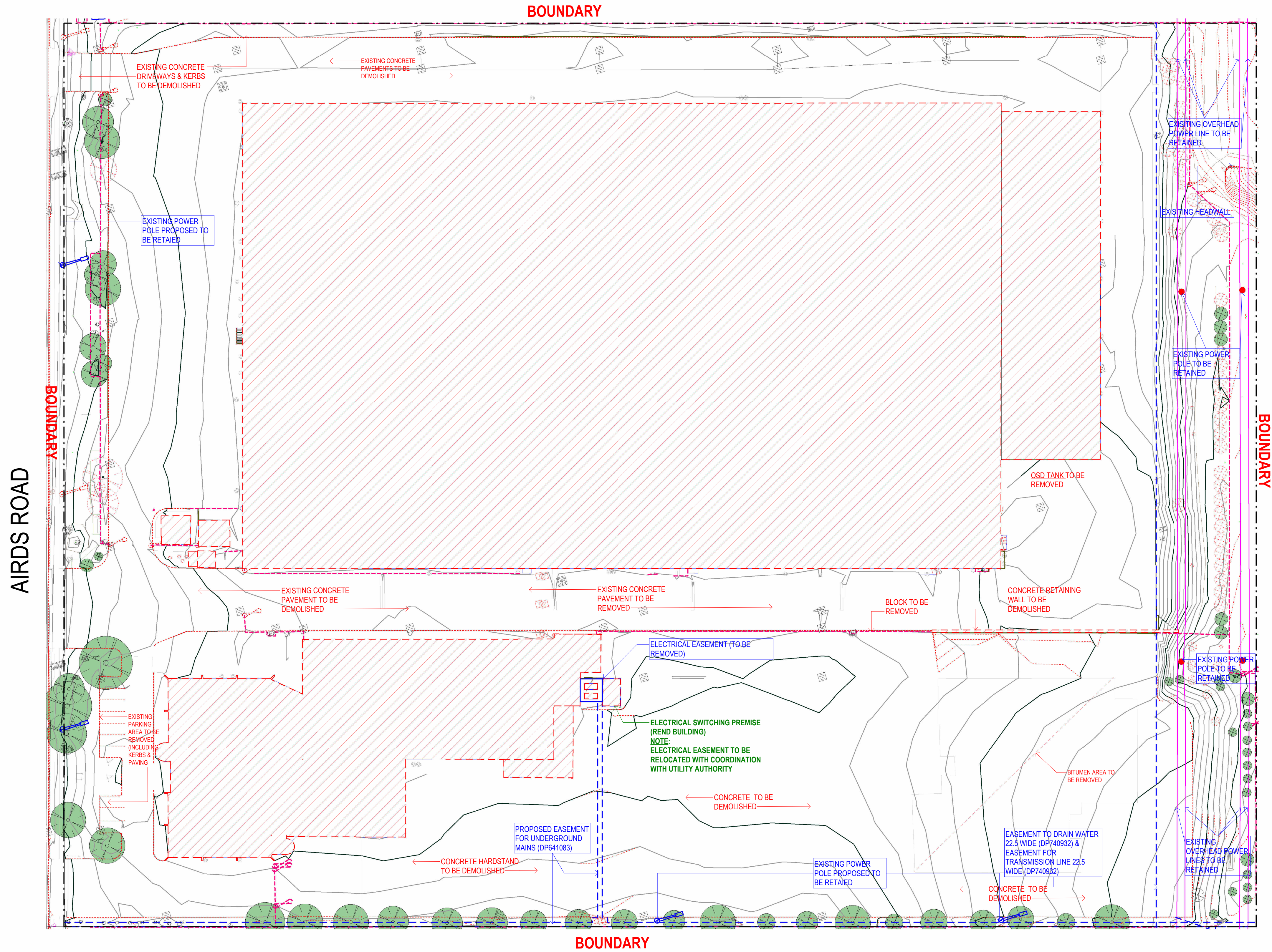
23159

DWG NO.

DA002

REVISION

E



DEMOLITION LEGEND:	
	BUILDING & AWNING STRUCTURE TO BE DEMOLISHED
	TREES TO BE RETAINED
	TREES, SHRUBS AND OTHER TYPES OF VEGETATION TO BE REMOVED
	DEMOLITION OR RETENTION OF SERVICES (HYDRANTS, MANHOLES, PITS) WILL BE REFERRED TO SERVICES CONSULTANTS
	ALL EXISTING BOLLARDS TO BE REMOVED
	EXISTING ELECTRICAL POST TO BE RETAINED
	EXISTING POWER POLE PROPOSED TO BE REMOVED OR RELOCATED
	EXISTING GATES TO BE DEMOLISHED
	ALL EXISTING FENCING TO BE DEMOLISHED

- OTHER SITE ITEMS TO BE DEMOLISHED:
- 1) FENCING, KERBS, GATES TO BE DEMOLISHED.
 - 2) READ IN CONJUNCTION WITH THE ARBORIST REPORT FOR TREES TO BE REMOVED
 - 3) NO ITEMS TO BE DEMOLISHED OUTSIDE BOUNDARY LINE

ISSUED FOR DA

DEVELOPMENT SUMMARY

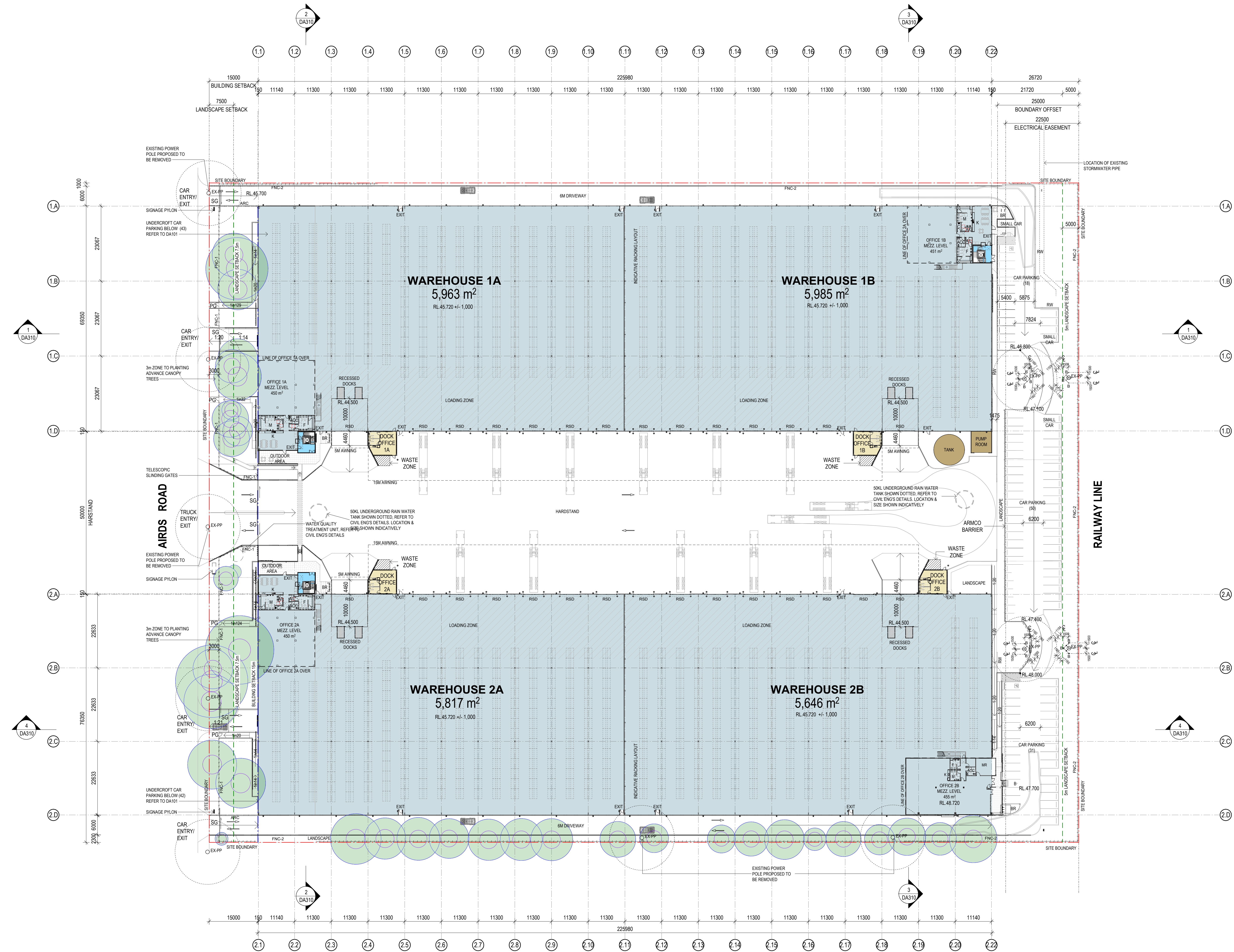
GFA CALCULATIONS:	
DEVELOPABLE SITE AREA	54,345m ²
GFA CALCULATION: (REFER TO DRAWING DA000 FOR METHOD OF MEASUREMENT)	
WAREHOUSE AREA	23,411m ²
OFFICE AREA	2,058m ²
TOTAL GFA	25,469m ²
PROPOSED FSR	0.46:1
LANDSCAPE AREA	10% 5,117m ²
PARKING RATES: WAREHOUSE: min 1 SPACE / 250m ² OF GFA OFFICE: min 1 SPACE / 35m ² OF GFA	
CAR SPACES REQUIRED (CALCULATED FROM GFA)	184
CAR SPACES PROPOSED	184
BICYCLE PARKING	18

GENERAL LEGEND

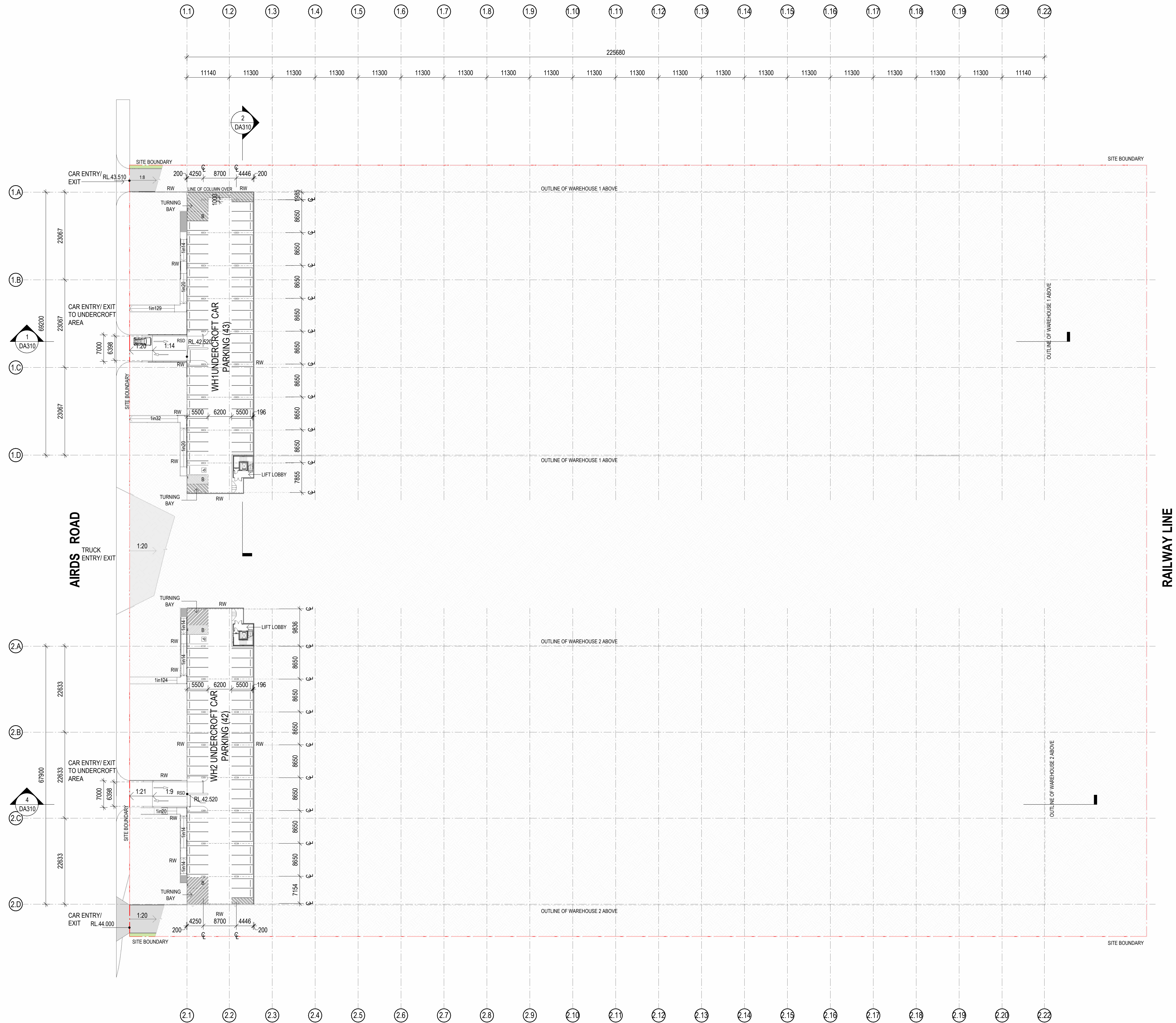
	FIRE SERVICES
	LANDSCAPE AREA
	WAREHOUSE
	DOCK OFFICE
	LOADING DOCKS

SITE & FENCE LEGEND

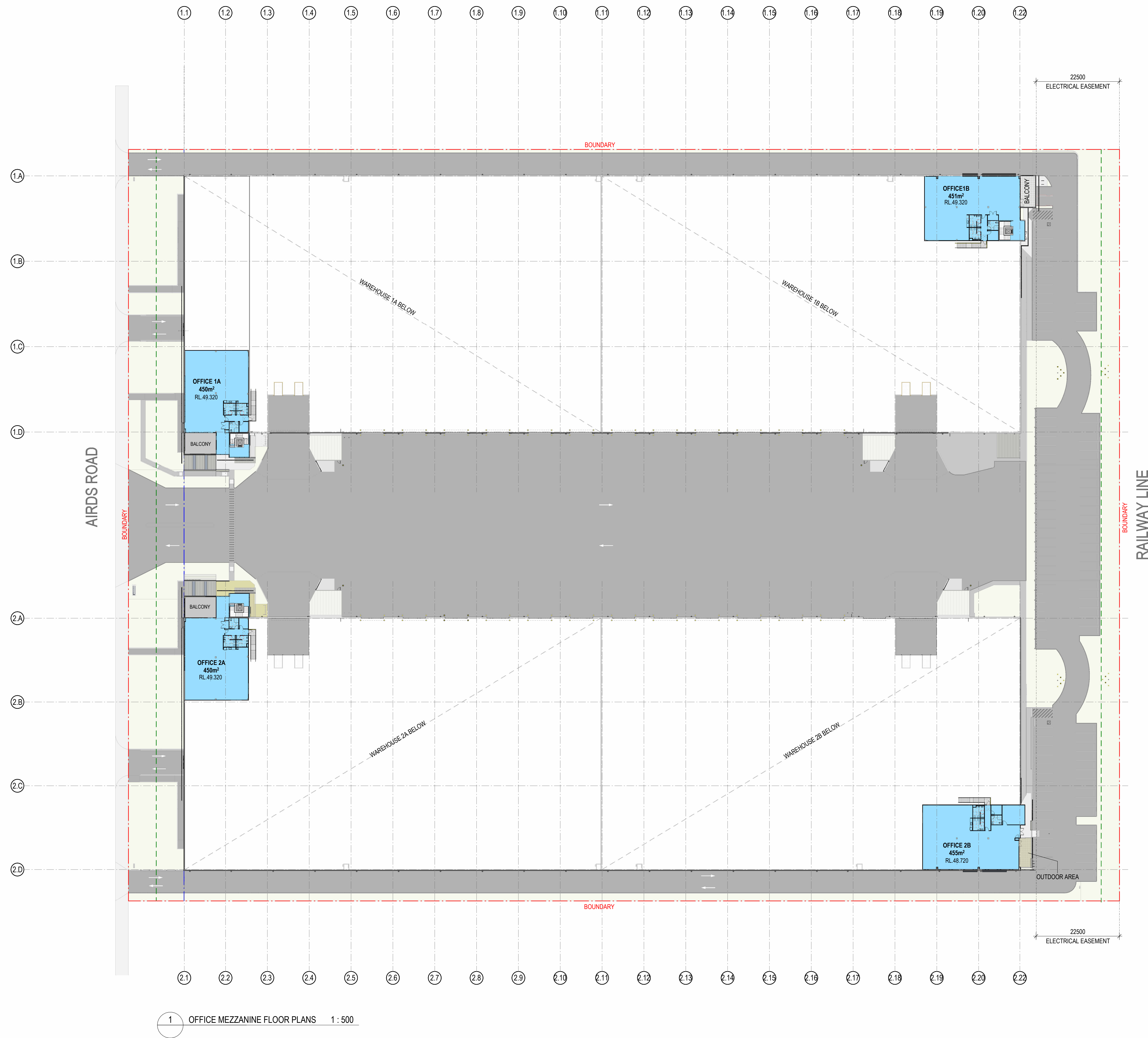
	SITE BOUNDARY
	BUILDING SETBACK
	LANDSCAPE SETBACK
	EXISTING POWER POLE
	FNC-1 2.1m HIGH PALISADE FENCE, BLACK POWDERCOAT FINISH
	FNC-2 2.4m HIGH OVERALL CHAINWIRE FENCE, BLACK PVC COATED, 3 ROWS OF BARBED WIRE ABOVE
	FNC-3 2.1m HIGH ALUMINUM SLAT FENCE, TIMBER LOOK FINISH
	HR HANDRAIL TO BCA COMPLIANCE REFER TO GA 6/5/2
	SG SLIDING GATE
	PG PEDESTRIAN GATE
	S/G AUTOMATIC SWING GATE
	M MANUAL SWING GATE (BRIGADE KEY)
	BR BICYCLE RACKING
	ARC ARMCO BARRIER
	B BOLLARD



ISSUED FOR DA



ISSUED FOR DA



1 OFFICE MEZZANINE FLOOR PLANS 1 : 500

ISSUED FOR DA



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A ISSUED FOR DA
P3 DRAFT DA ISSUED FOR REVIEW
P2 ISSUED FOR REVIEW
P1 ISSUED FOR REVIEW
DESCRIPTION

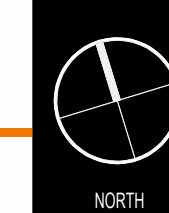
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16.05.24
15.03.24
08.12.23
24.11.23
15.08.2023
01.08.2023
DATE

CLIENT



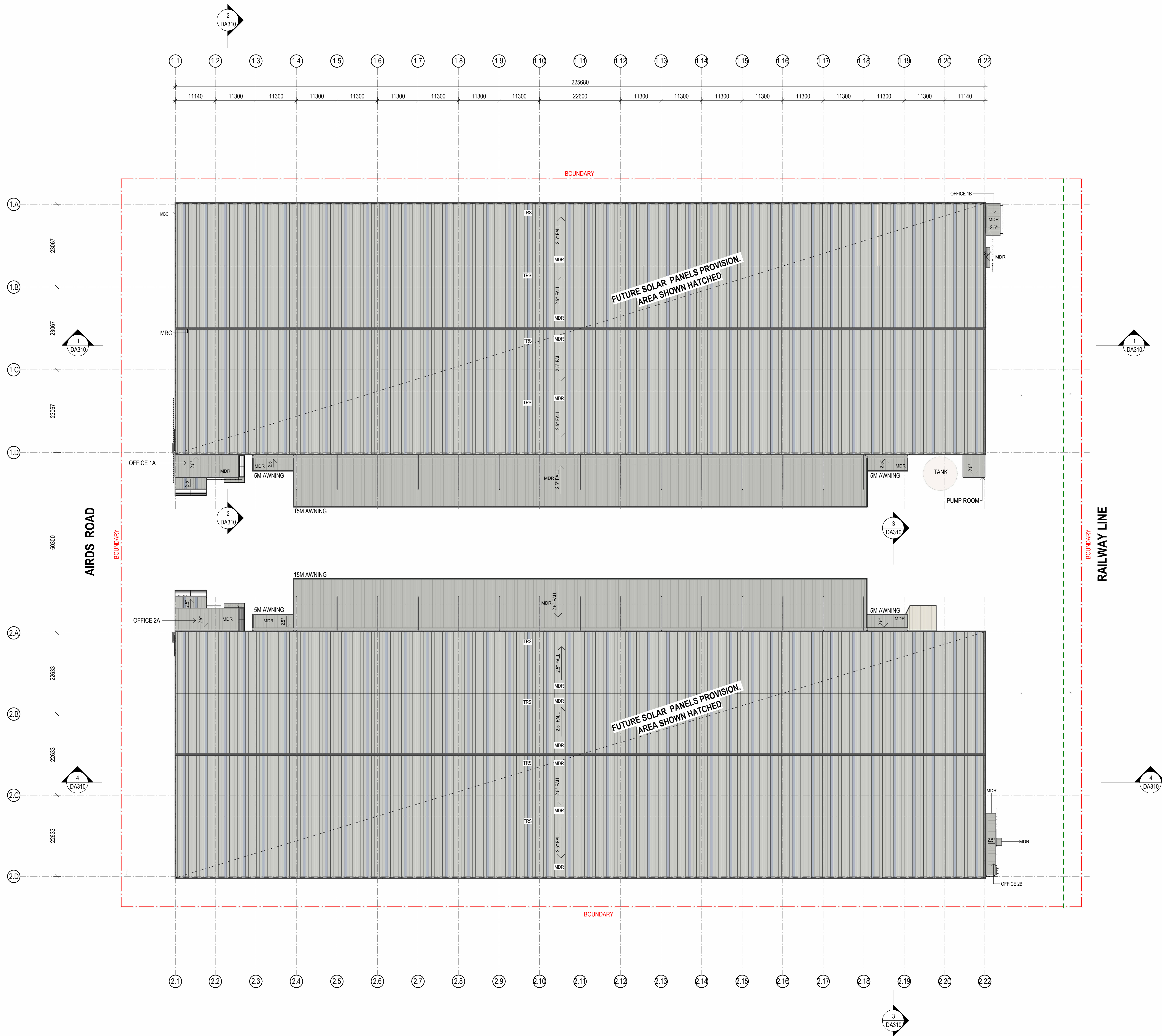
ESR MINTO DEVELOPMENT

50-52 AIRDS ROAD, MINTO, NSW



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TITLE
WAREHOUSE OFFICE MEZZANINE
FLOOR PLAN
DATE
14.06.24
SCALE
1:500 @ B1
PROJECT NO.
23159
DWG NO.
DA102
REVISION
D



ROOF LEGEND:

BG	BOX GUTTER (TO HYD. ENGR'S DETAILS)
DP	DOWNPIPE
EG	EAVES GUTTER (TO HYD. ENGR'S DETAILS)
MDR	METAL DECK ROOF SHEETING
MBC	METAL BARGE CAPPING
MRC	METAL RIDGE CAPPING
TRS	TRANSLUCENT ROOF SHEETING

ISSUED FOR DA



C ISSUED FOR DA
B ISSUED FOR DA
A ISSUED FOR DA
P3 DRAFT DA ISSUED FOR REVIEW
P2 ISSUED FOR REVIEW
P1 ISSUED FOR REVIEW
DESCRIPTION

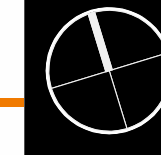
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15.03.24
08.12.23
24.11.23
15.08.2023
01.08.2023
DATE

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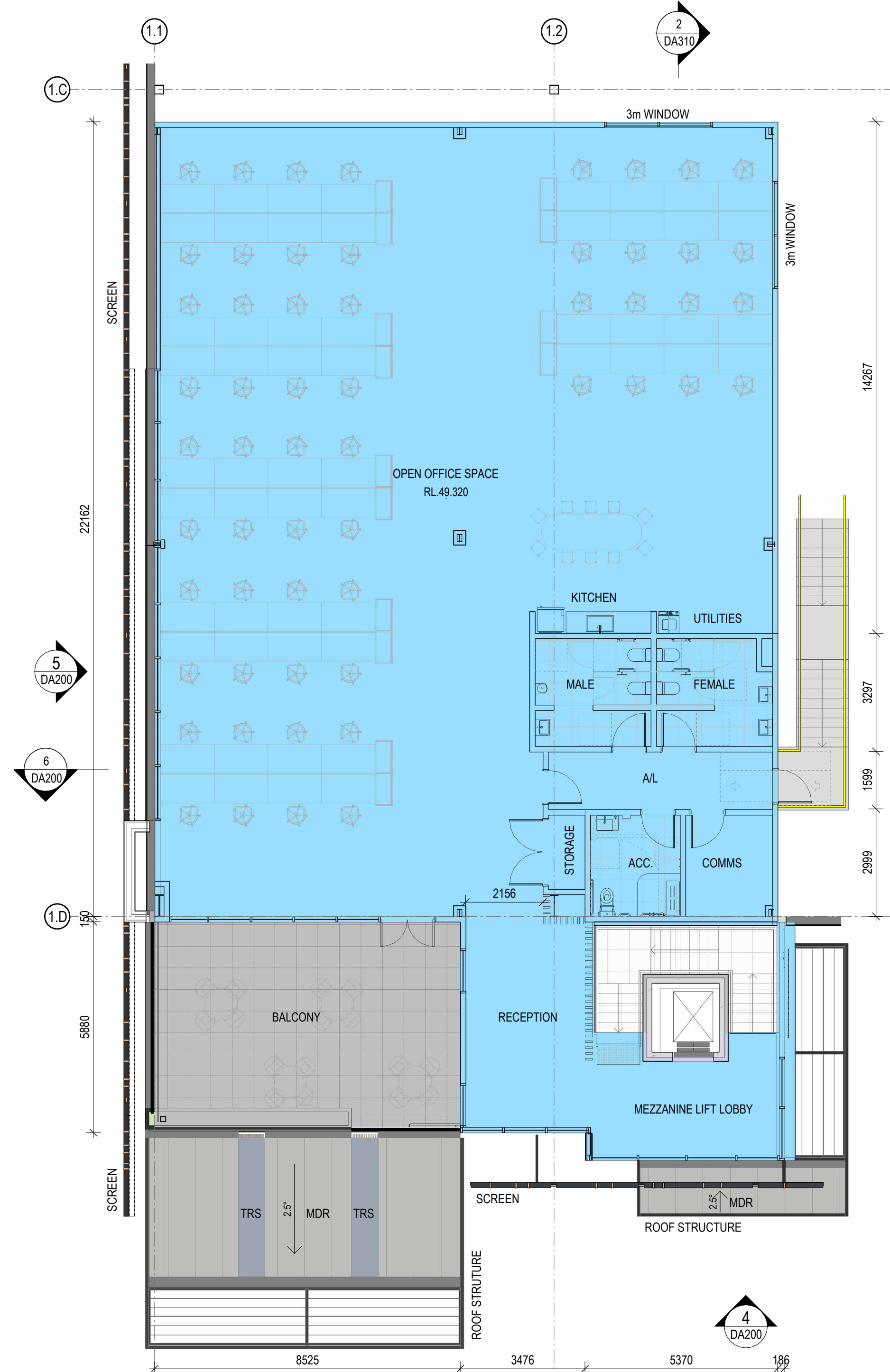
TITLE

WAREHOUSE ROOF PLAN

DATE
16.05.24

SCALE
1:500 @ B1

PROJECT NO. 23159
DWG NO. DA103
REVISION C



3 OFFICE 1A MEZZ. FLOOR PLAN 1 : 100



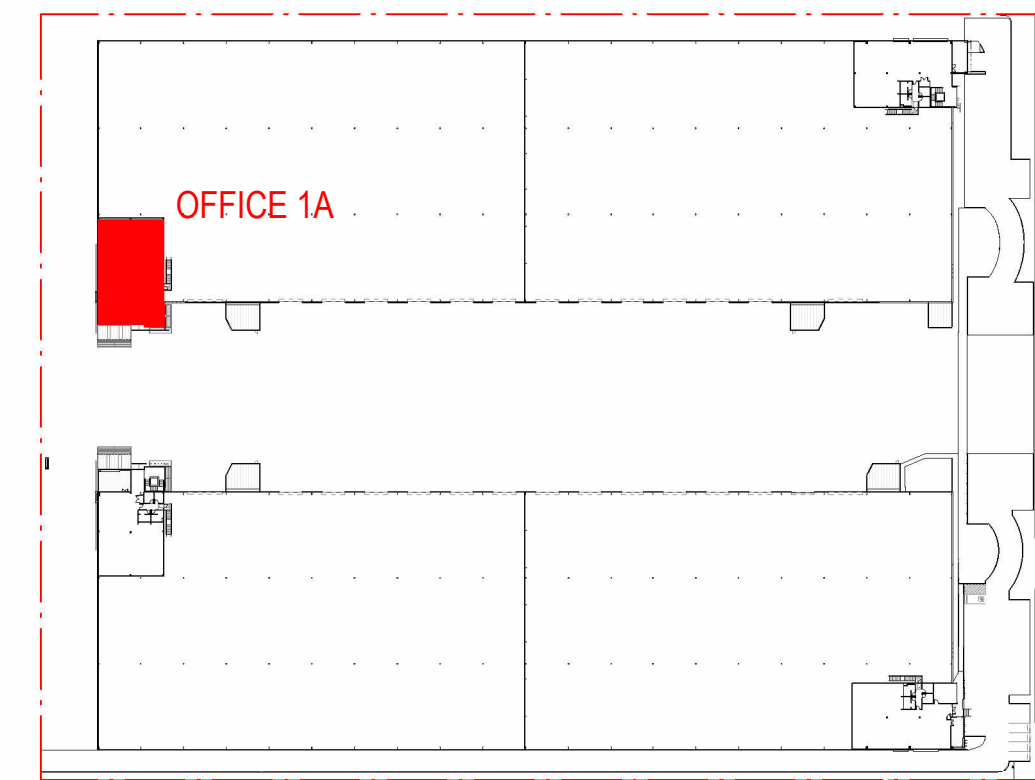
2 OFFICE 1A GROUND LIFT LOBBY 1 : 100



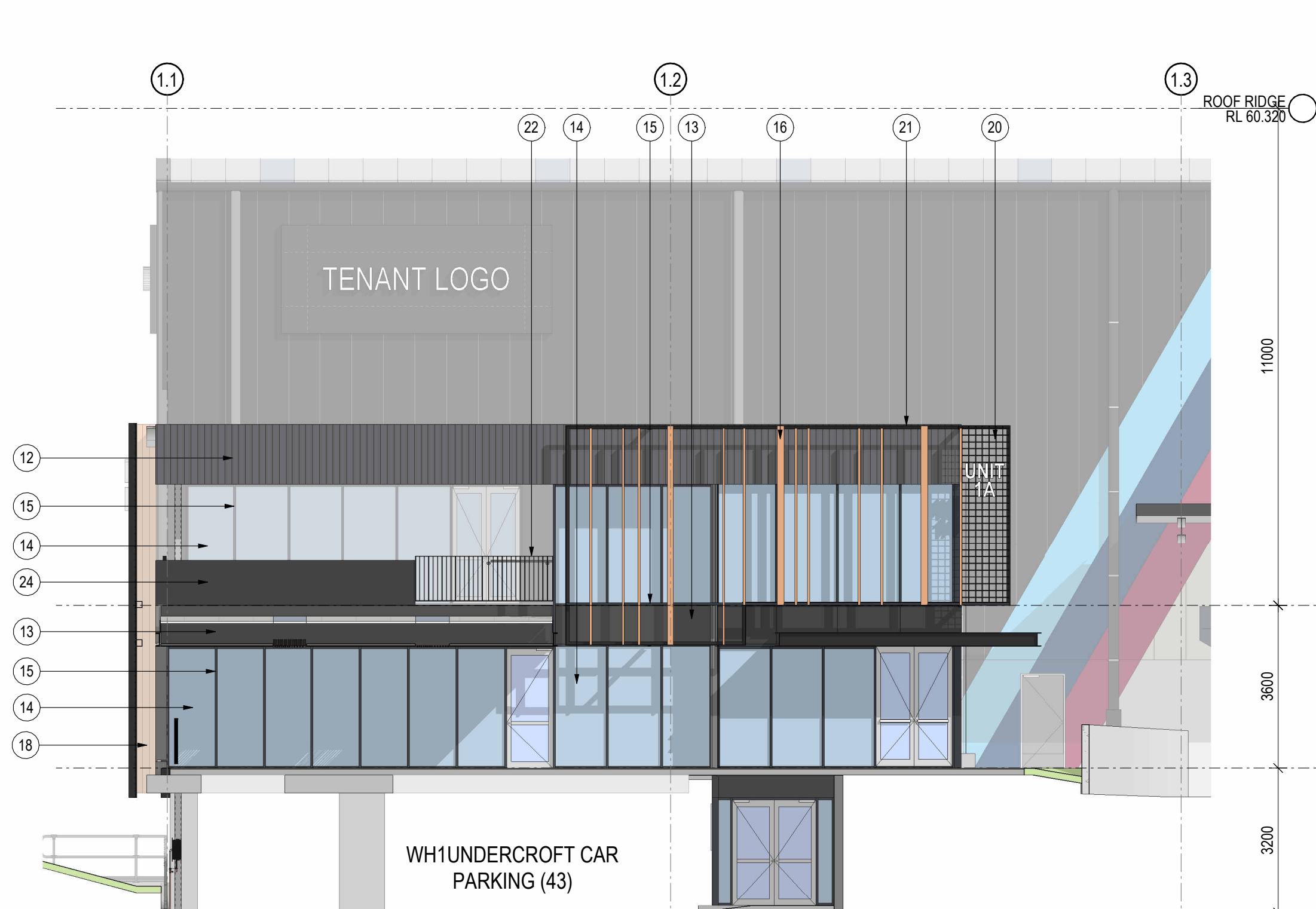
OFFICE 1A PERSPECTIVE - 1



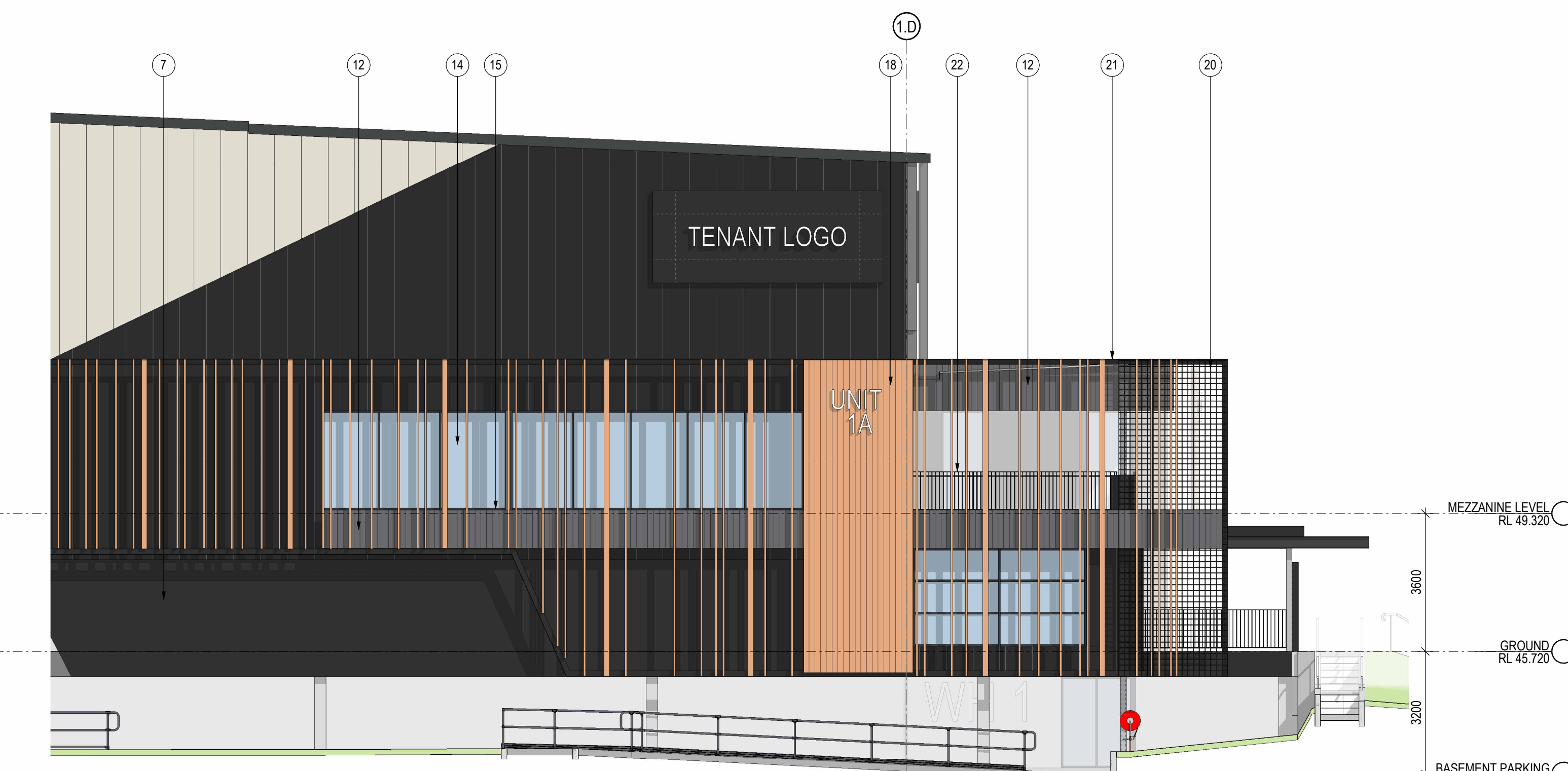
OFFICE 1A PERSPECTIVE - 2



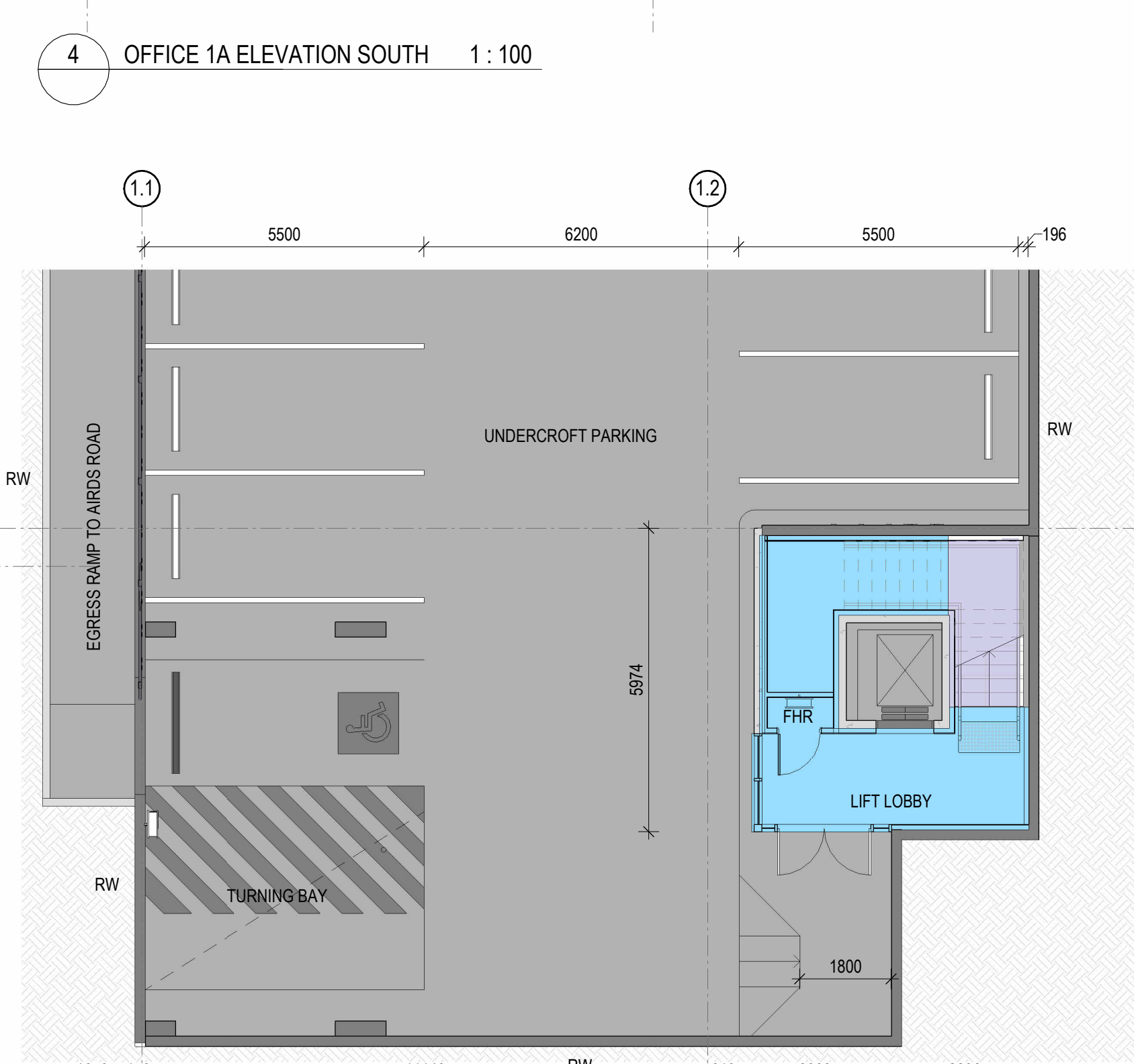
KEY PLAN - OFFICE 1A



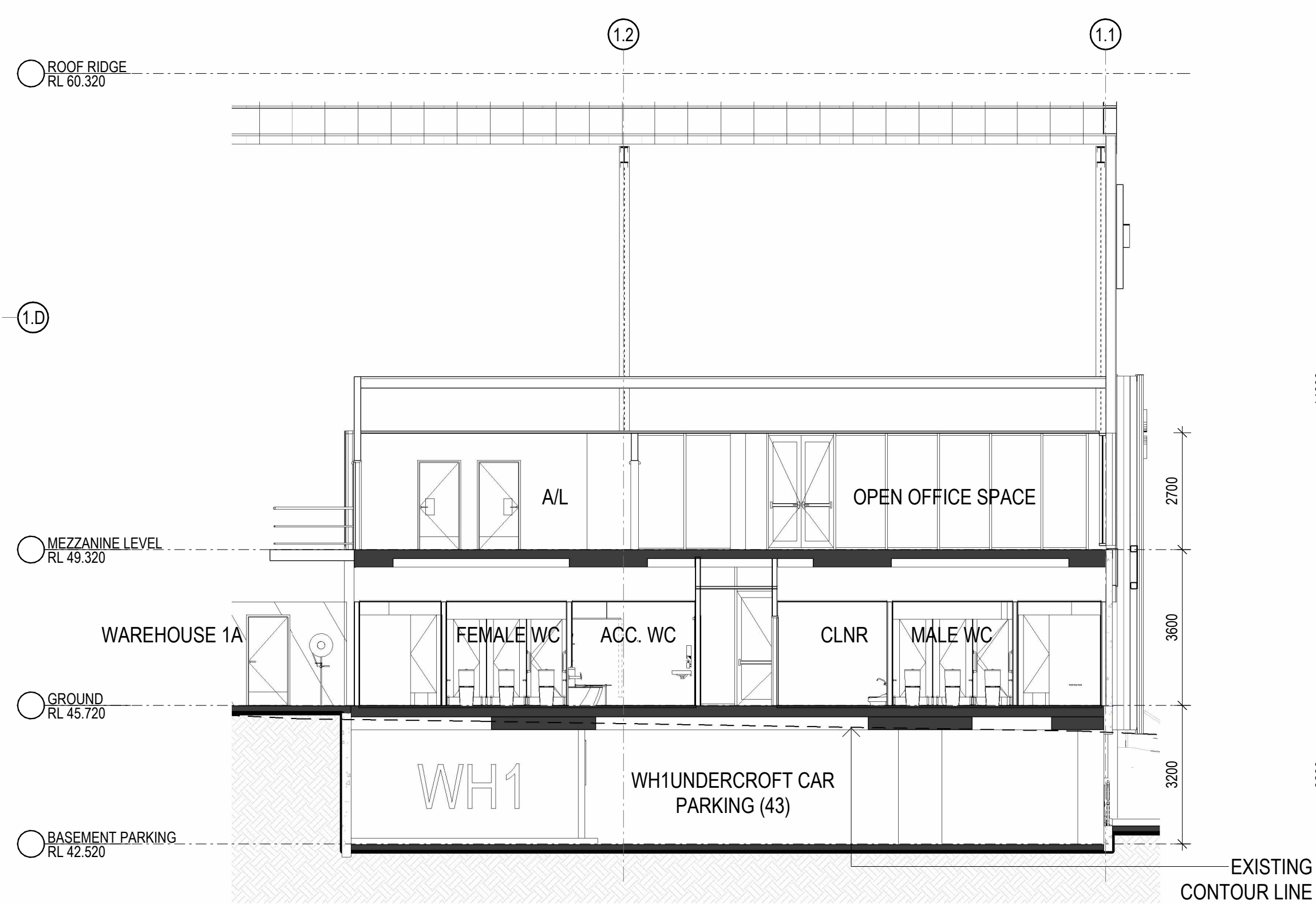
4 OFFICE 1A ELEVATION SOUTH 1 : 100



5 OFFICE 1A ELEVATION WEST 1 : 100



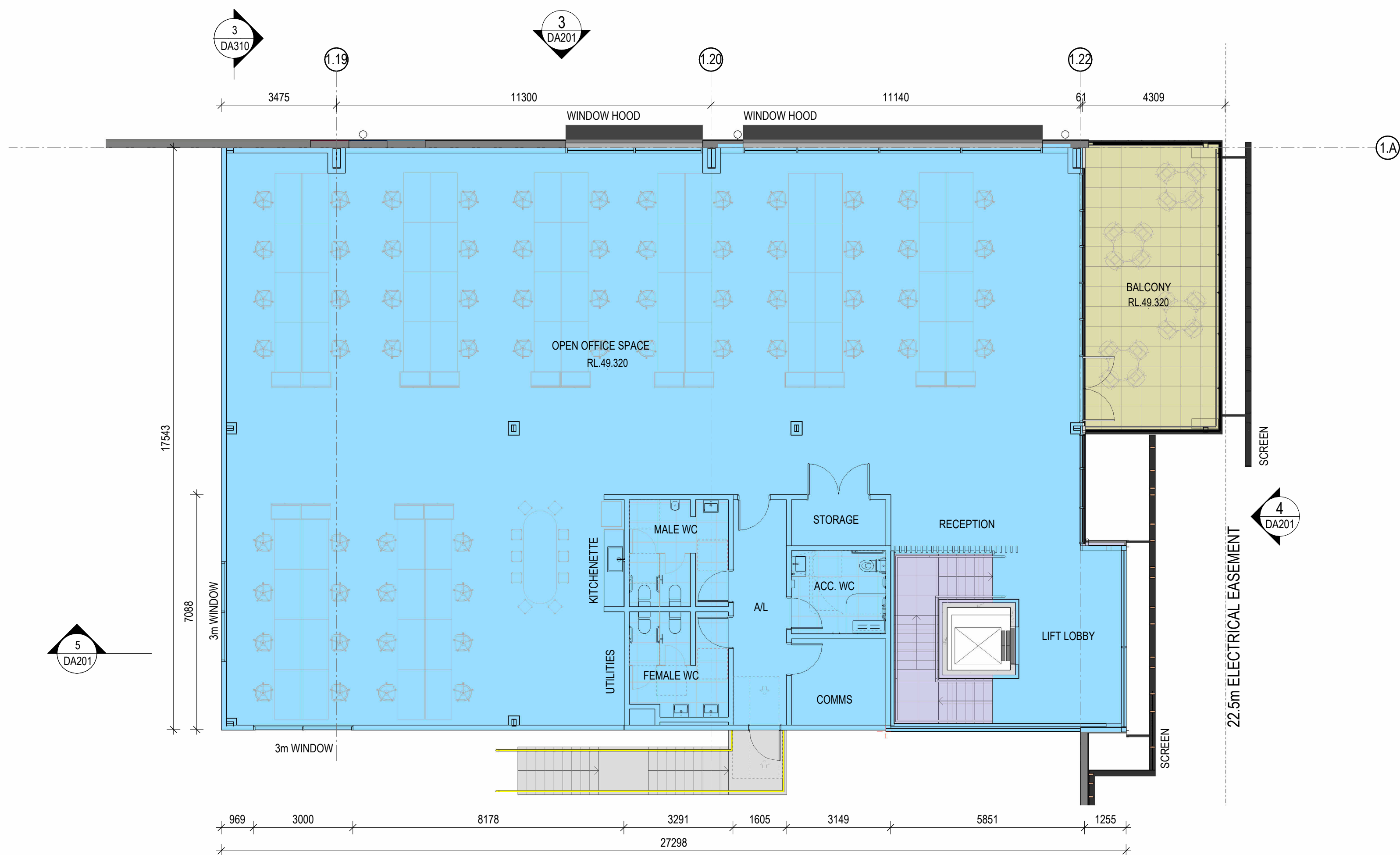
1 OFFICE 1A BASEMENT LIFT LOBBY 1 : 100



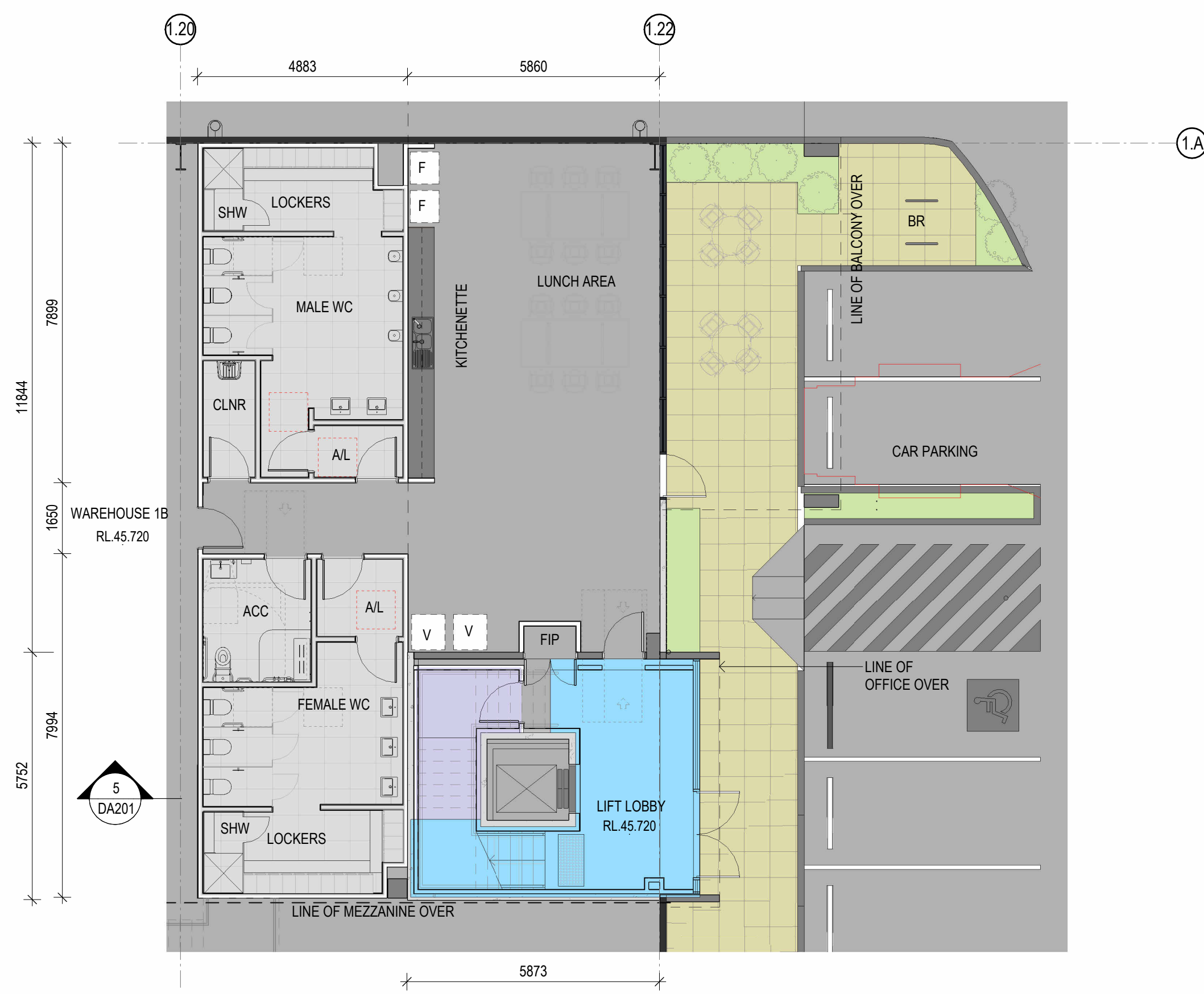
6 OFFICE 1A - CROSS SECTION 1 : 100

INDICATIVE EXTERNAL FINISHES	
	7. PRECAST CONCRETE PANEL - MONUMENT PAINT FINISH
	8. PRECAST CONCRETE PANEL - OFF FORM FINISH
	12. PREFINISHED SOLID METAL CLADDING - SIMILAR TO LYSAGHT DOMINION
	13. ALUMINIUM CLADDING - FINISH - MONUMENT
	14. GLAZING - WINDOW - DOUBLE GLAZED GREY TINT
	15. ALU. FRAME GLAZING SYSTEM - POWDERCOAT FINISH - ZEUS DARK GREY
	16. CLICK ON TIMBER LOOK ALUMINIUM BATTENS EQUAL TO DECOBATTEN - BATTEN SIZE 200 X 50 - LIGHT TIMBER.
	18. DECOBATTEN WITH BLACK BACKING
	19. TIMBER LOOK ALUMINIUM CLADDING EQUAL TO DECOCLAD V-GROOVE 180mm BOARD WIDTH - COLOUR TO MATCH BATTEN SCREEN
	20. STEEL MESH BACKING SCREEN
	21. SUSPENDED STEEL FRAME
	22. WELDED SOLID METAL BAR BALUSTRADE - PAINT FINISH
	23. SPANDREL GLAZING - GREY
	24. CONCRETE WITH ECOTONE FINISH - COLOUR TBC

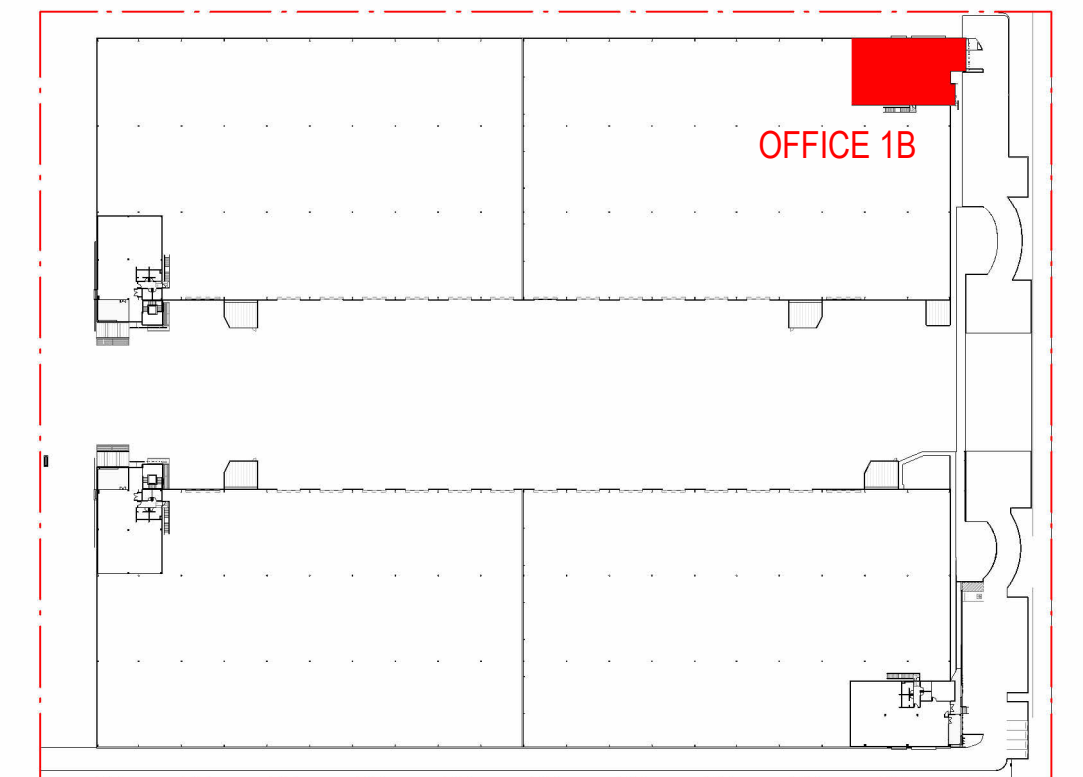
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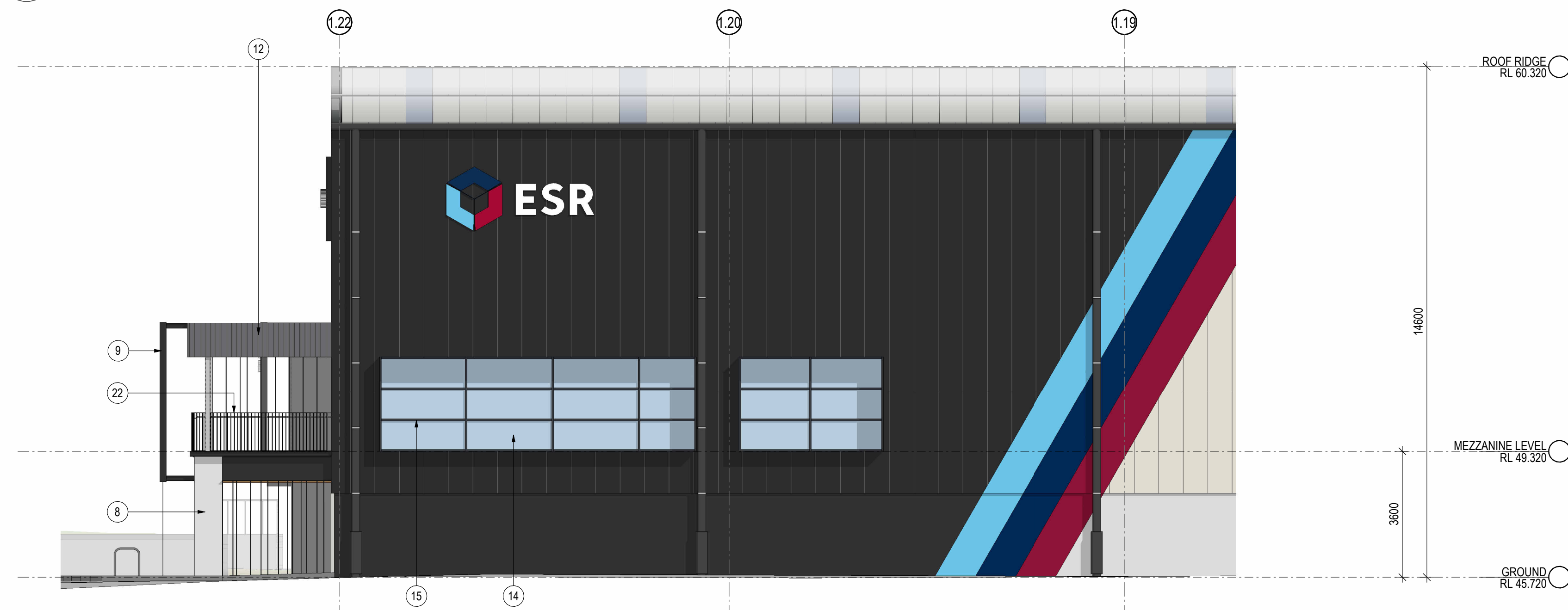
2 OFFICE 1B MEZZ. FLOOR PLAN 1:100



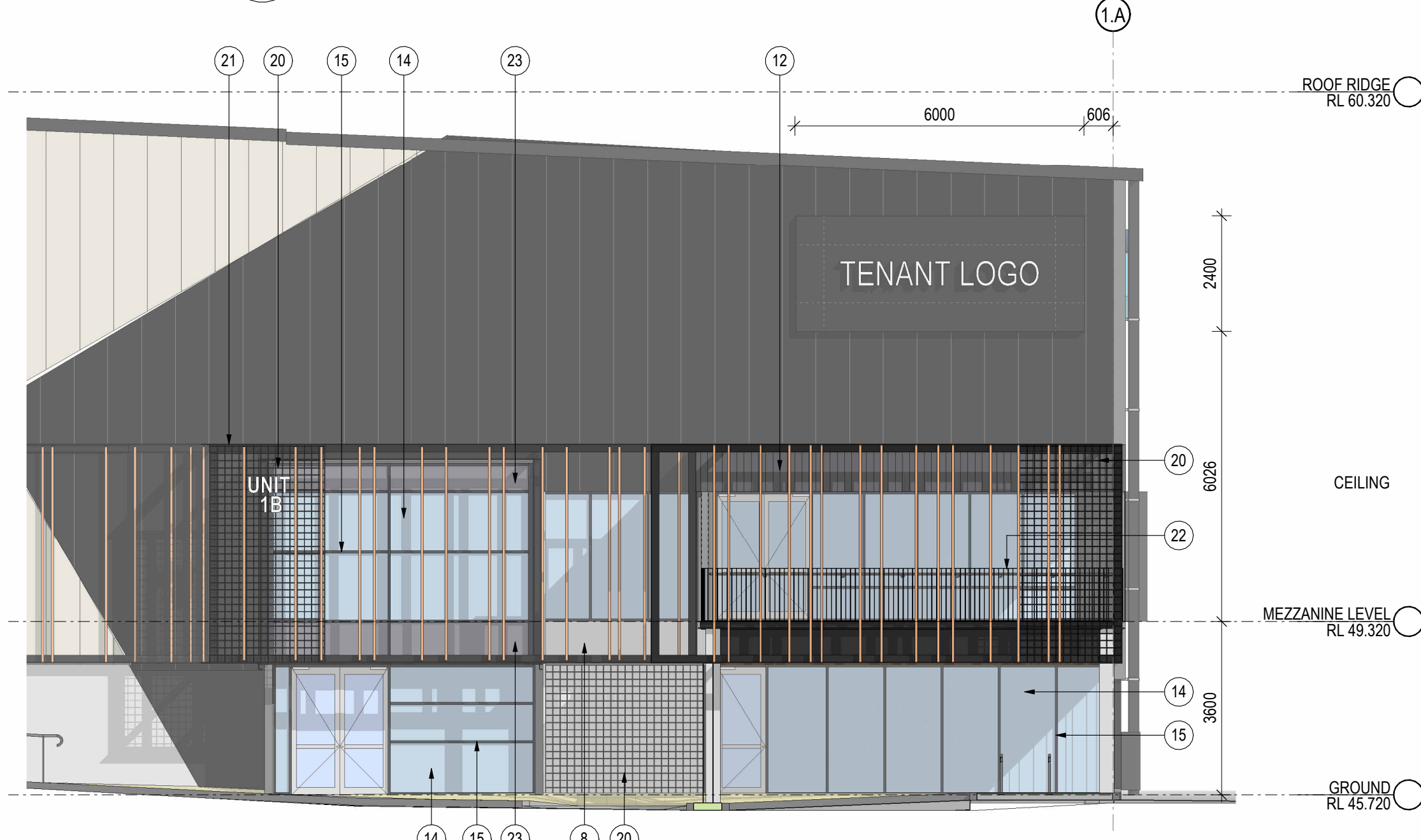
1 OFFICE 1B GROUND ENTRY 1:100



KEY PLAN - OFFICE 1B

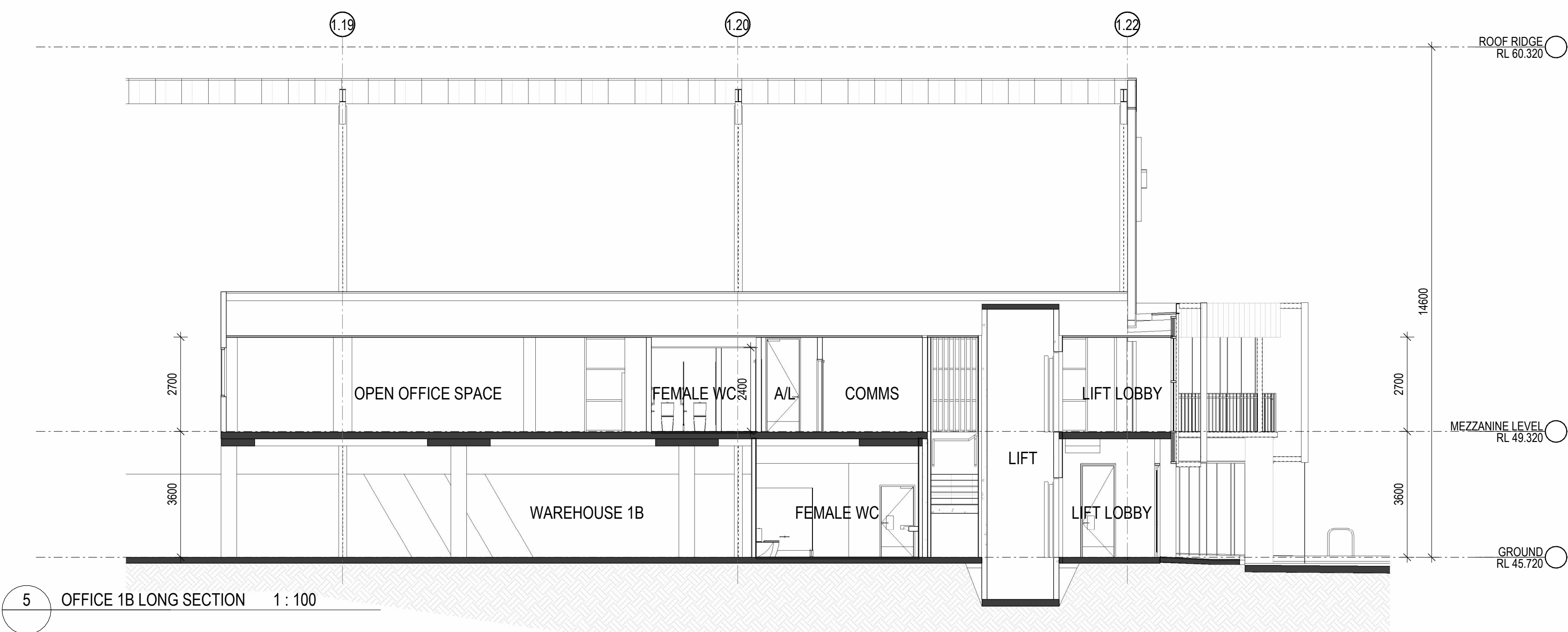


3 OFFICE 1B ELEVATION NORTH 1:100



4 OFFICE 1B ELEVATION EAST 1:100

INDICATIVE EXTERNAL FINISHES	
	7. PRECAST CONCRETE PANEL - MONUMENT PAINT FINISH
	8. PRECAST CONCRETE PANEL - OFF FORM FINISH
	12. PREFINISHED SOLID METAL CLADDING - SIMILAR TO LYSAGHT DOMINION
	13. ALUMINIUM CLADDING - FINISH - MONUMENT
	14. GLAZING - WINDOW - DOUBLE GLAZED GREY TINT
	15. ALU. FRAME GLAZING SYSTEM - POWDERCOAT FINISH - ZEUS DARK GREY
	16. CLICK ON TIMBER LOOK ALUMINIUM BATTENS EQUAL TO DECOBATTEN - BATTEN SIZE 200 X 50 - LIGHT TIMBER
	18. DECOBATTEN WITH BLACK BACKING
	19. TIMBER LOOK ALUMINIUM CLADDING EQUAL TO DECOCLAD V-GROOVE 180mm BOARD WIDTH - COLOUR TO MATCH BATTEN SCREEN
	20. STEEL MESH BACKING SCREEN
	21. SUSPENDED STEEL FRAME
	22. WELDED SOLID METAL BAR BALUSTRADE - PAINT FINISH
	23. SPANDREL GLAZING - GREY
	24. CONCRETE WITH ECOTONE FINISH - COLOUR TBC



5 OFFICE 1B LONG SECTION 1:100

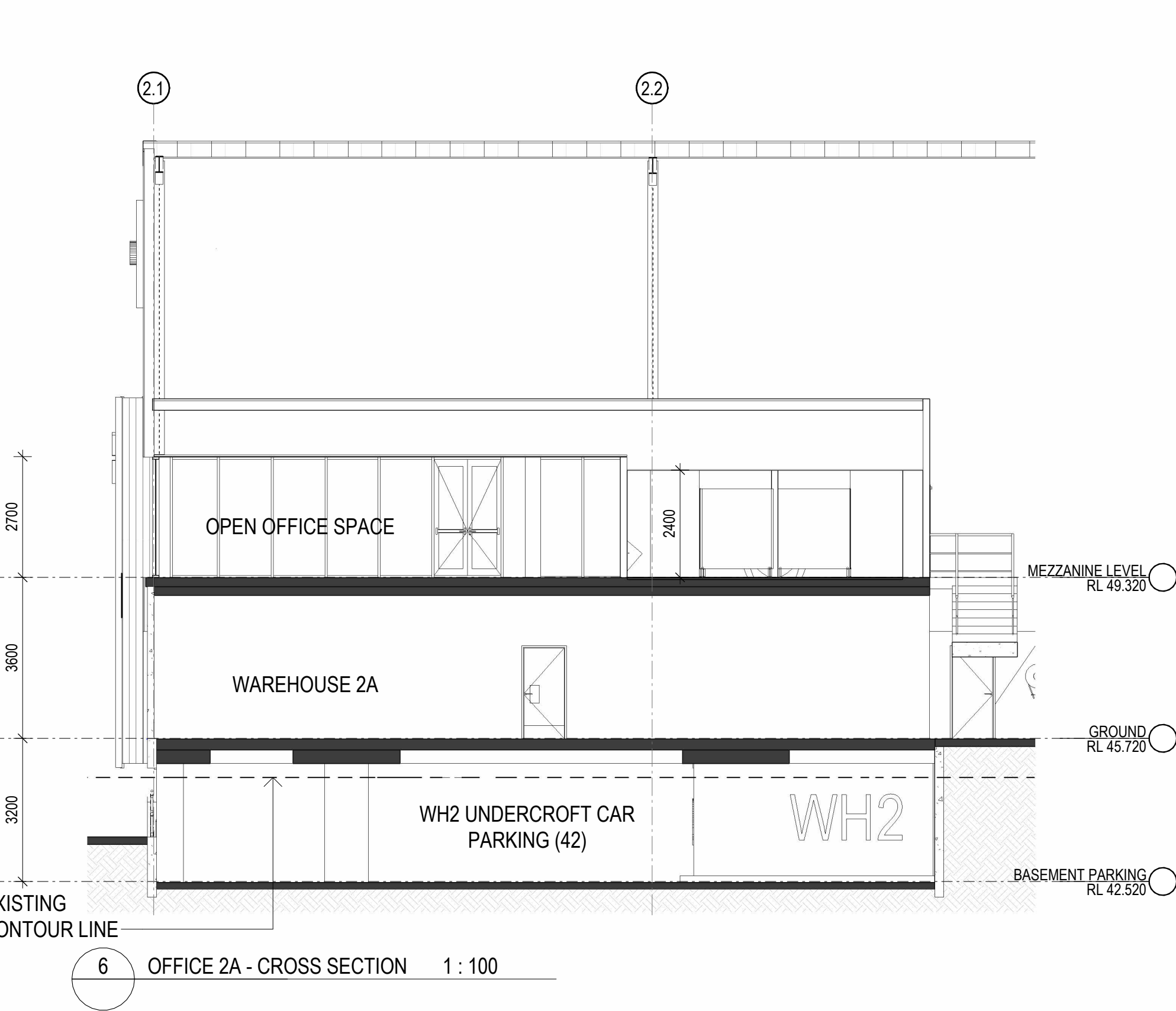
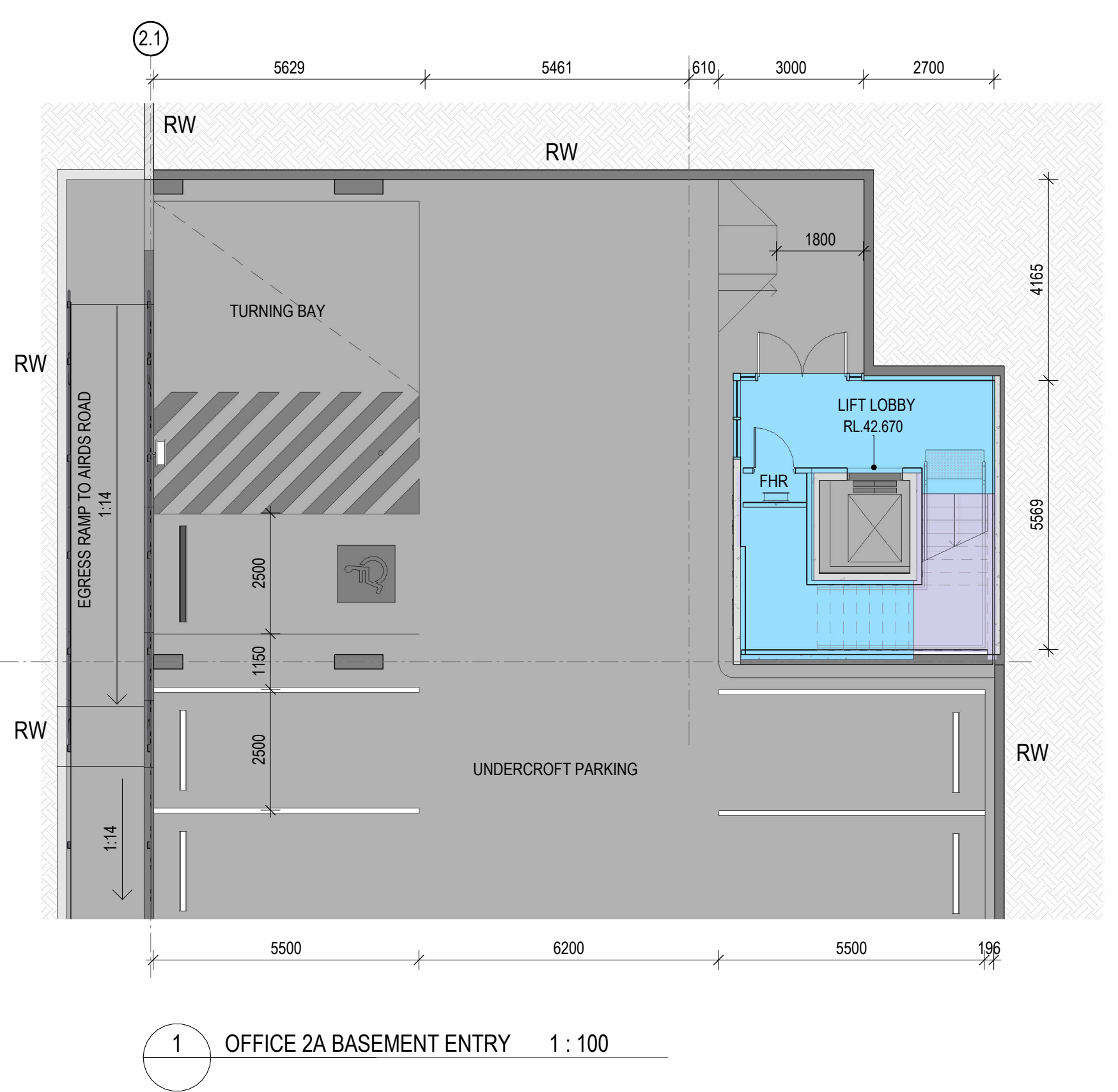
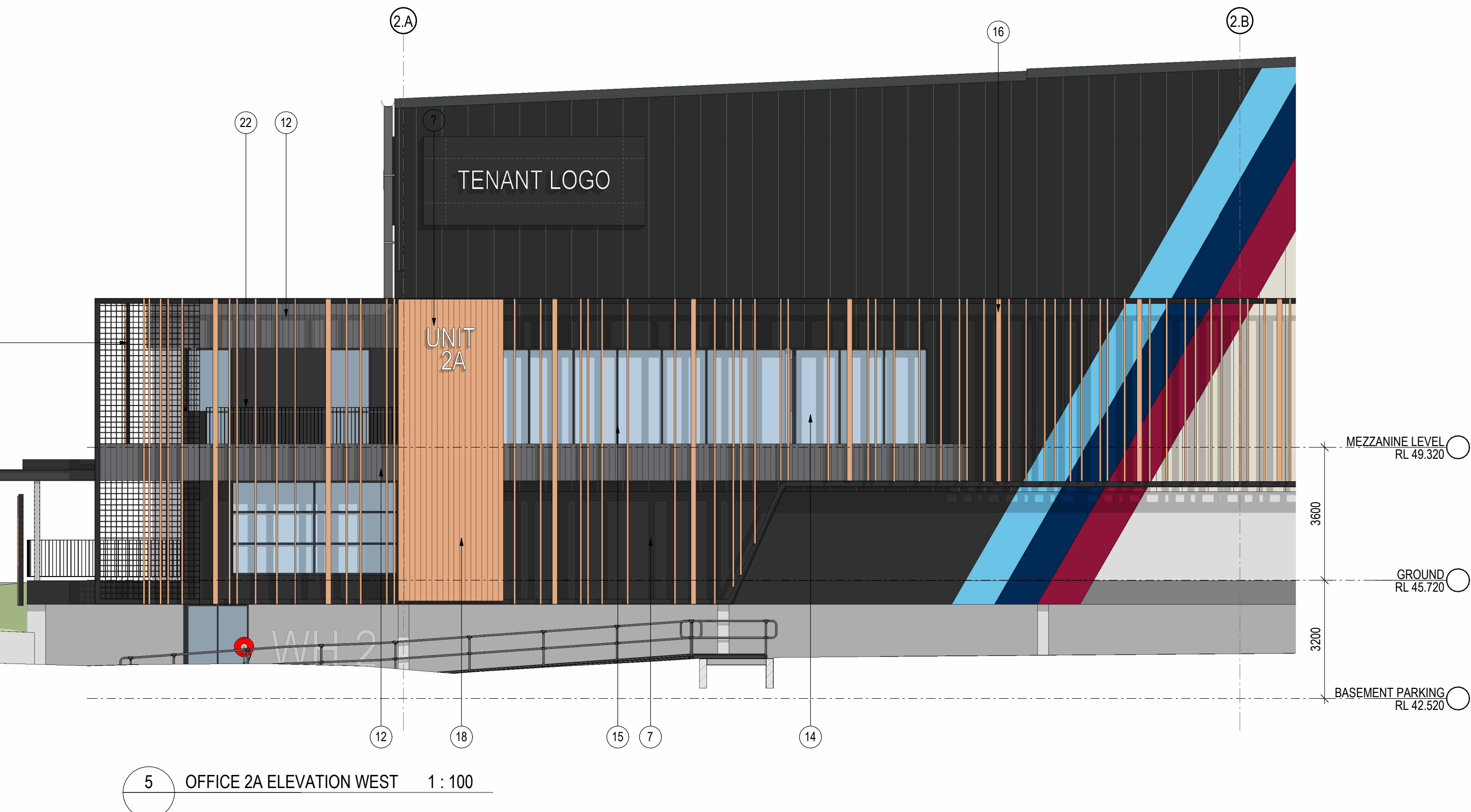
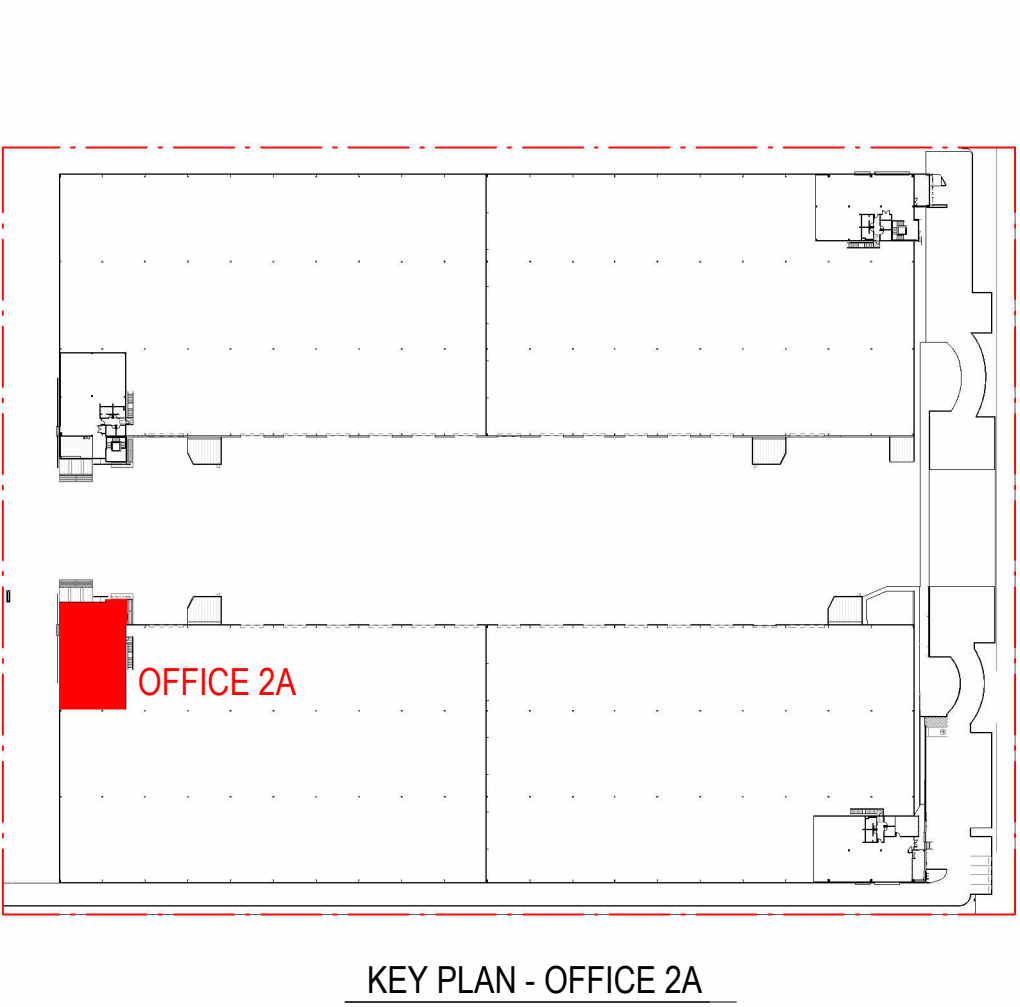
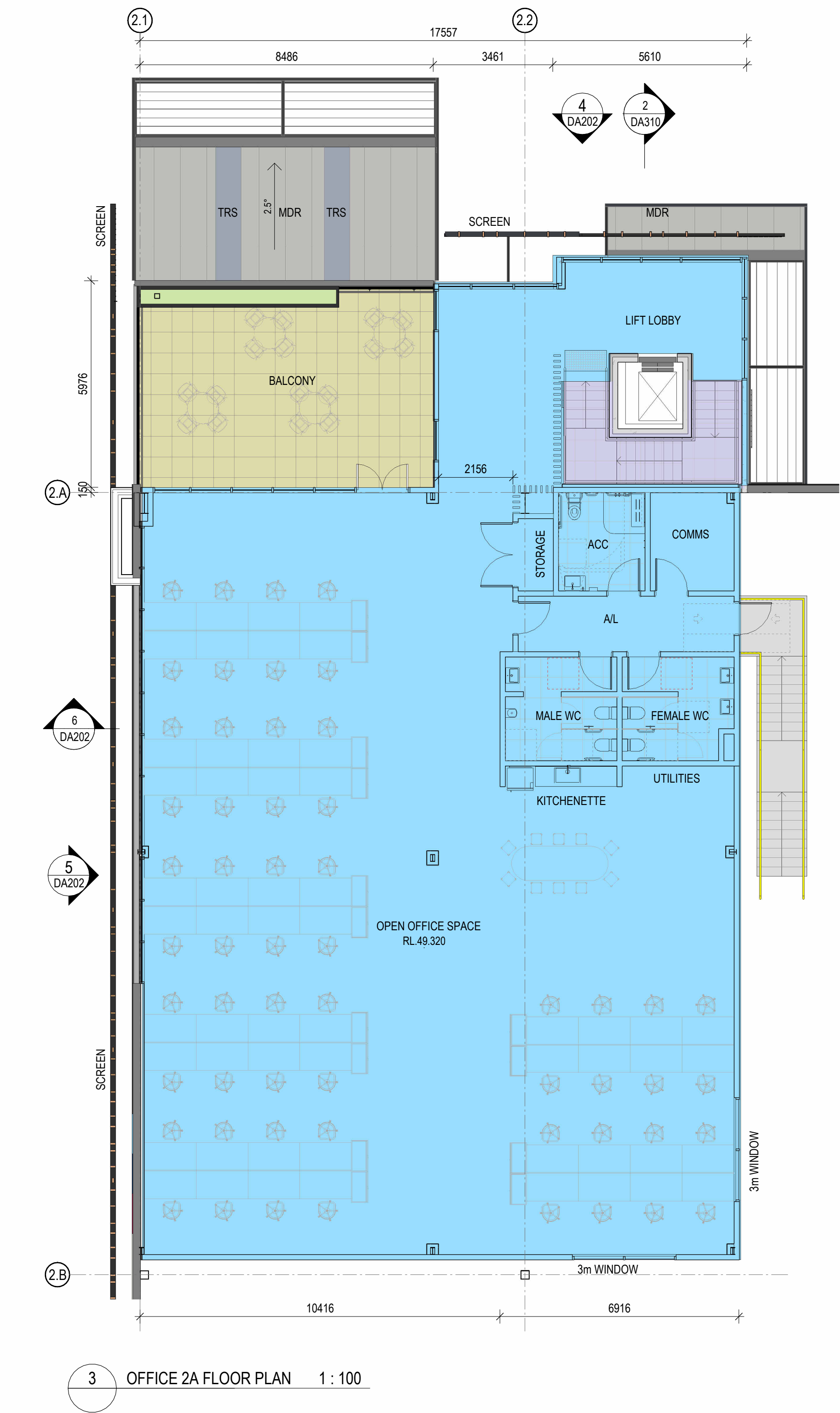


OFFICE 1B PERSPECTIVE - 1



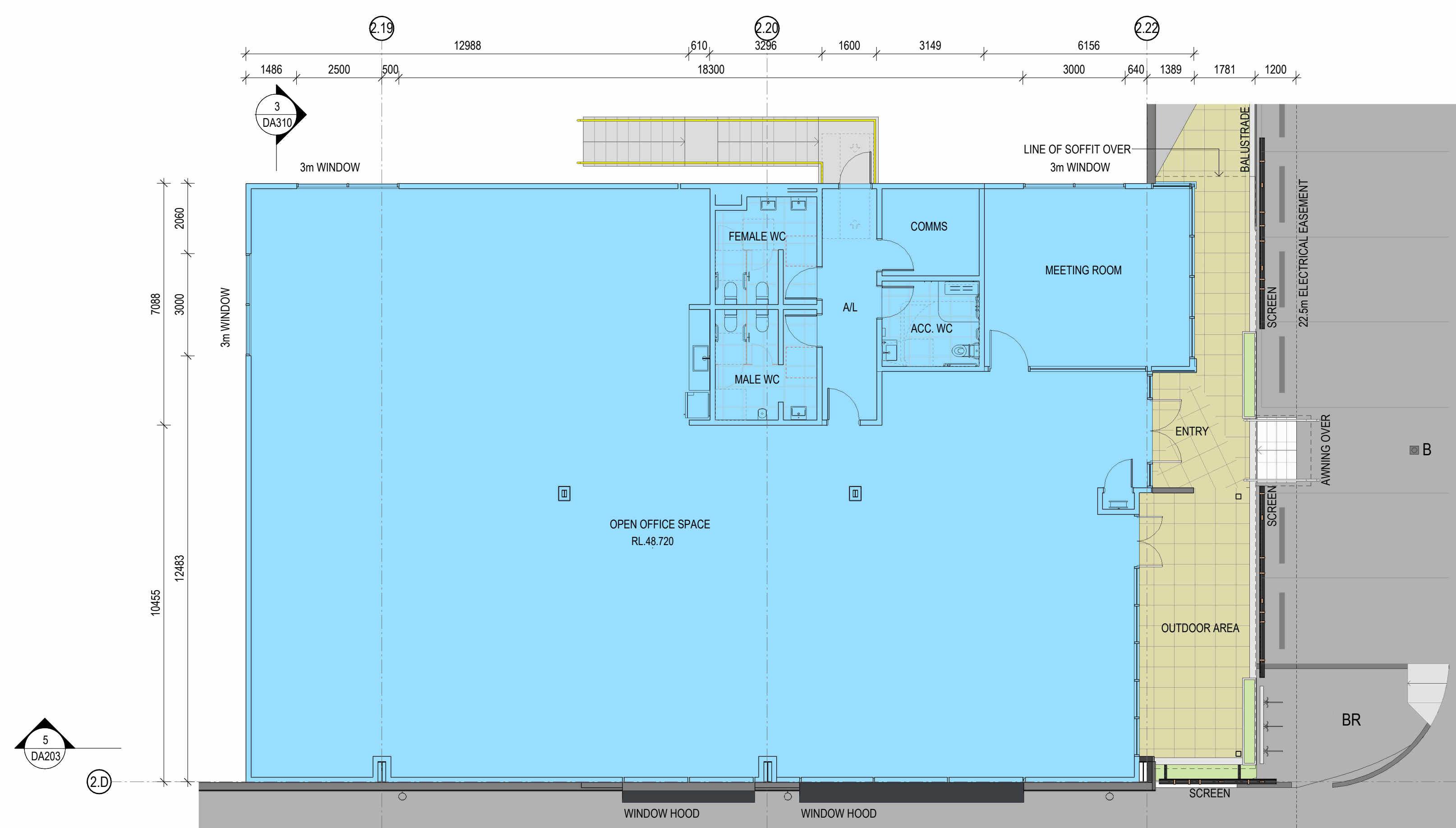
OFFICE 1B PERSPECTIVE - 2

ISSUED FOR DA



INDICATIVE EXTERNAL FINISHES	
	7. PRECAST CONCRETE PANEL - MONUMENT PAINT FINISH
	8. PRECAST CONCRETE PANEL - OFF FORM FINISH
	12. PREFINISHED SOLID METAL CLADDING - SIMILAR TO LYSAGHT DOMINION
	13. ALUMINIUM CLADDING - FINISH - MONUMENT
	14. GLAZING - WINDOW - DOUBLE GLAZED GREY TINT
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	20. STEEL MESH BACKING SCREEN
	21. SUSPENDED STEEL FRAME
	22. WELDED SOLID METAL BAR BALUSTRADE - PAINT FINISH
	23. SPANDREL GLAZING - GREY
	24. CONCRETE WITH ECOTONE FINISH - COLOUR TBC

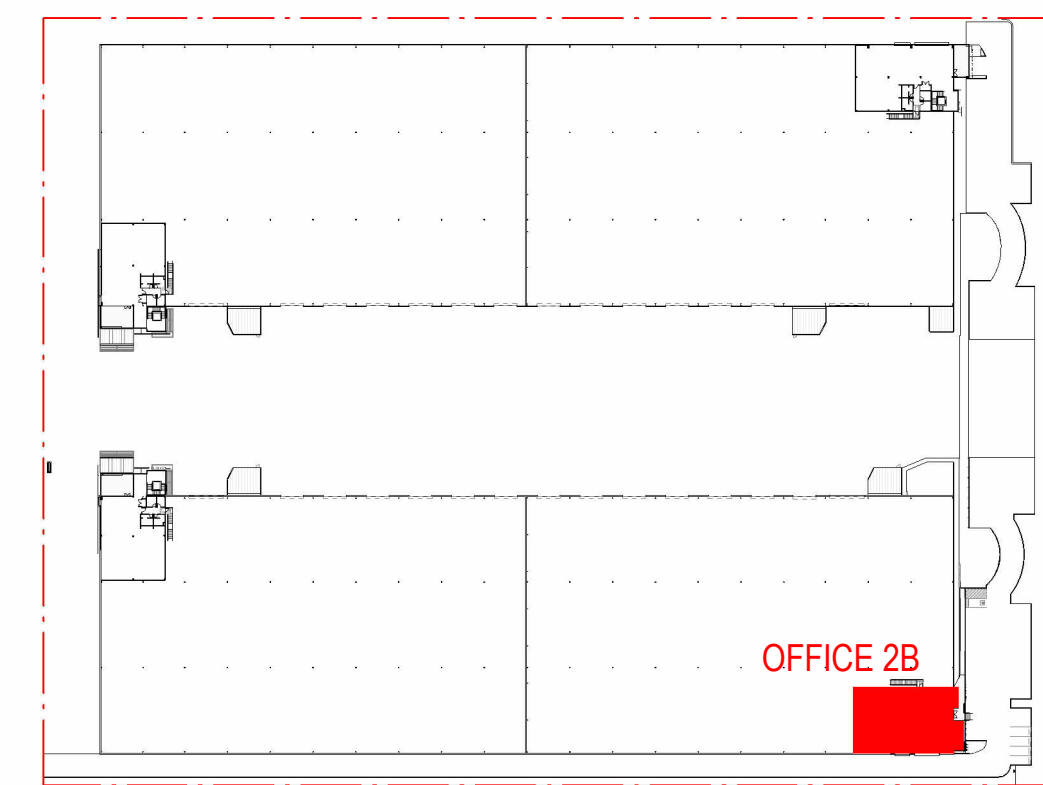
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2 OFFICE 2B MZZ. PLAN 1 : 100



1 WH2B AMENITIES PLAN 1 : 100



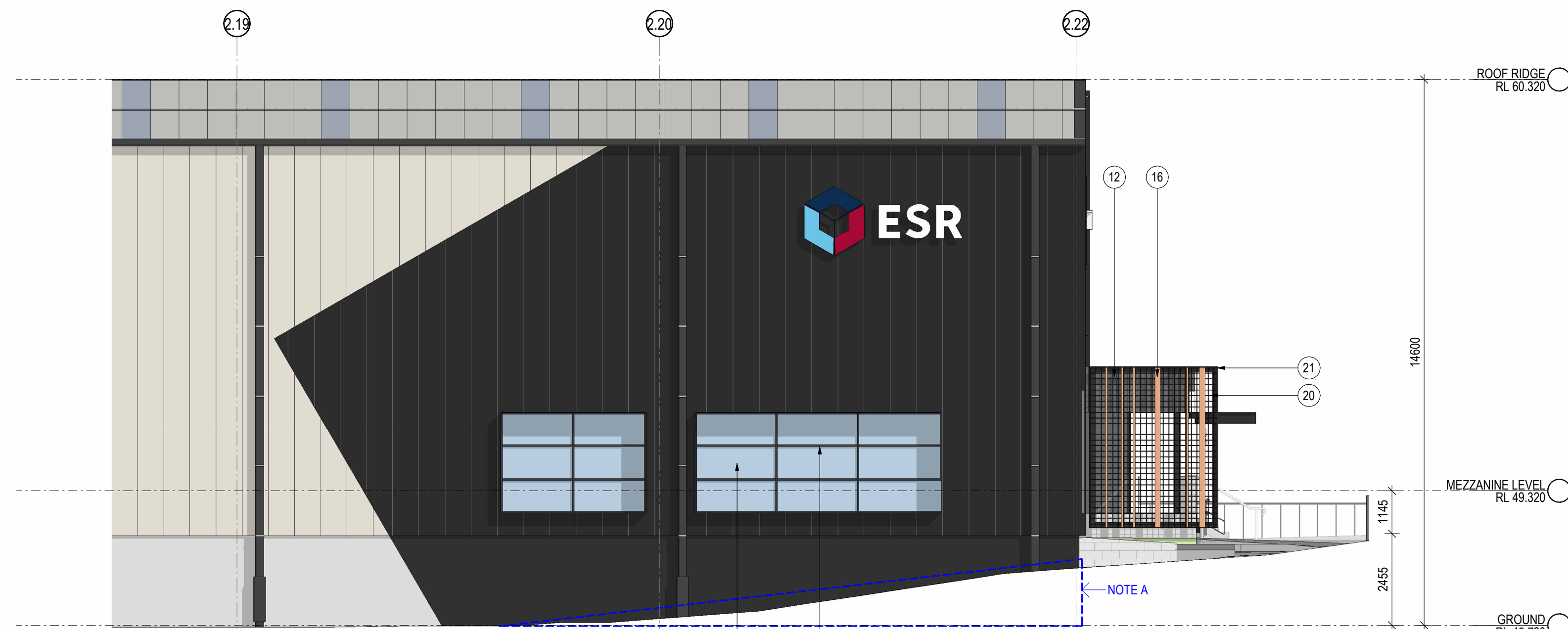
KEY PLAN - OFFICE 2B

GENERAL NOTES

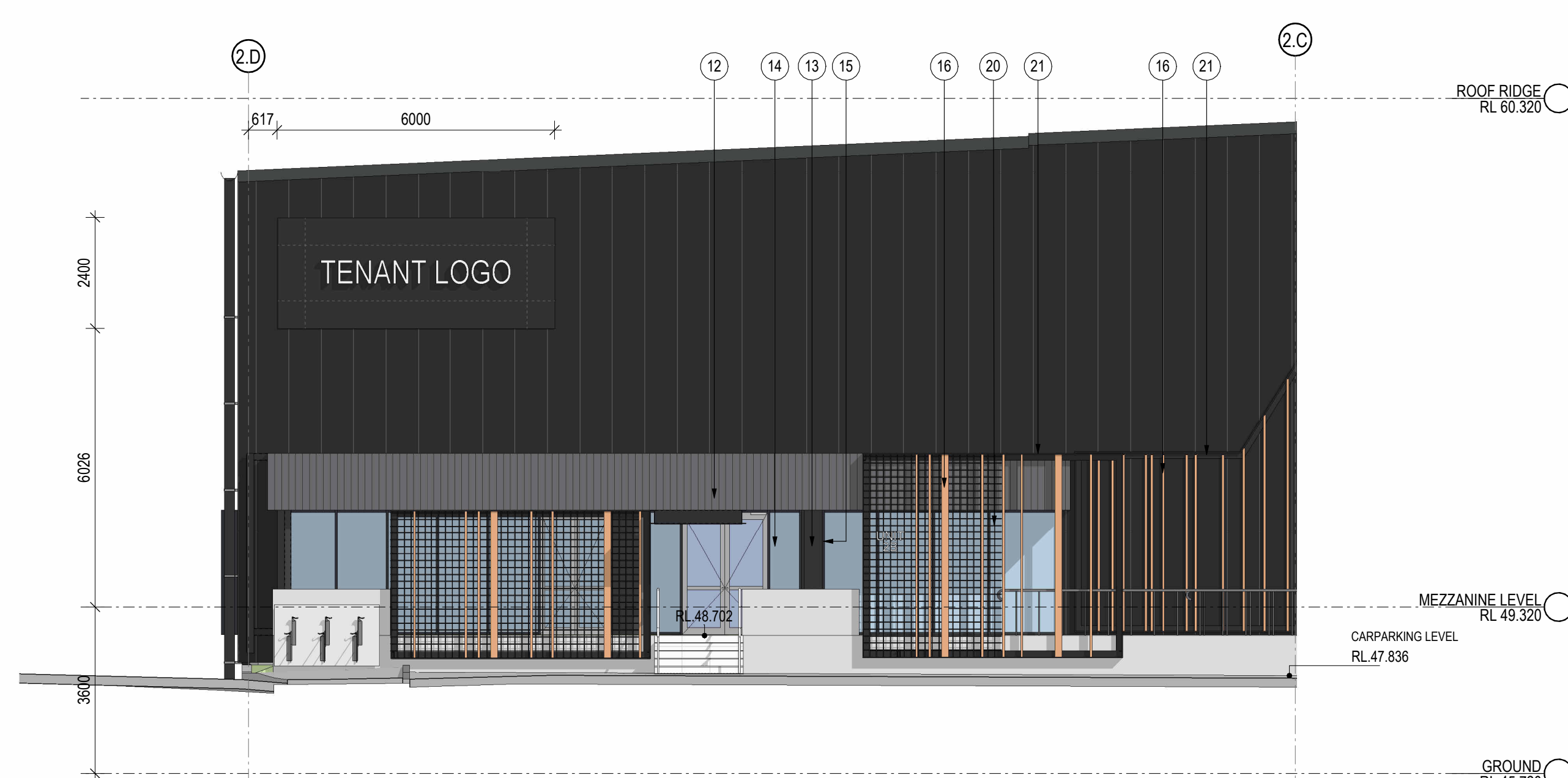
NOTE A: ALL WALLS BOUNDING RETAINED EARTH ARE TO COMPLY WITH THE REQUIREMENTS OF PART F1 OF THE NCC 2022 VOLUME ONE - BUILDING CODE OF AUSTRALIA

INDICATIVE EXTERNAL FINISHES

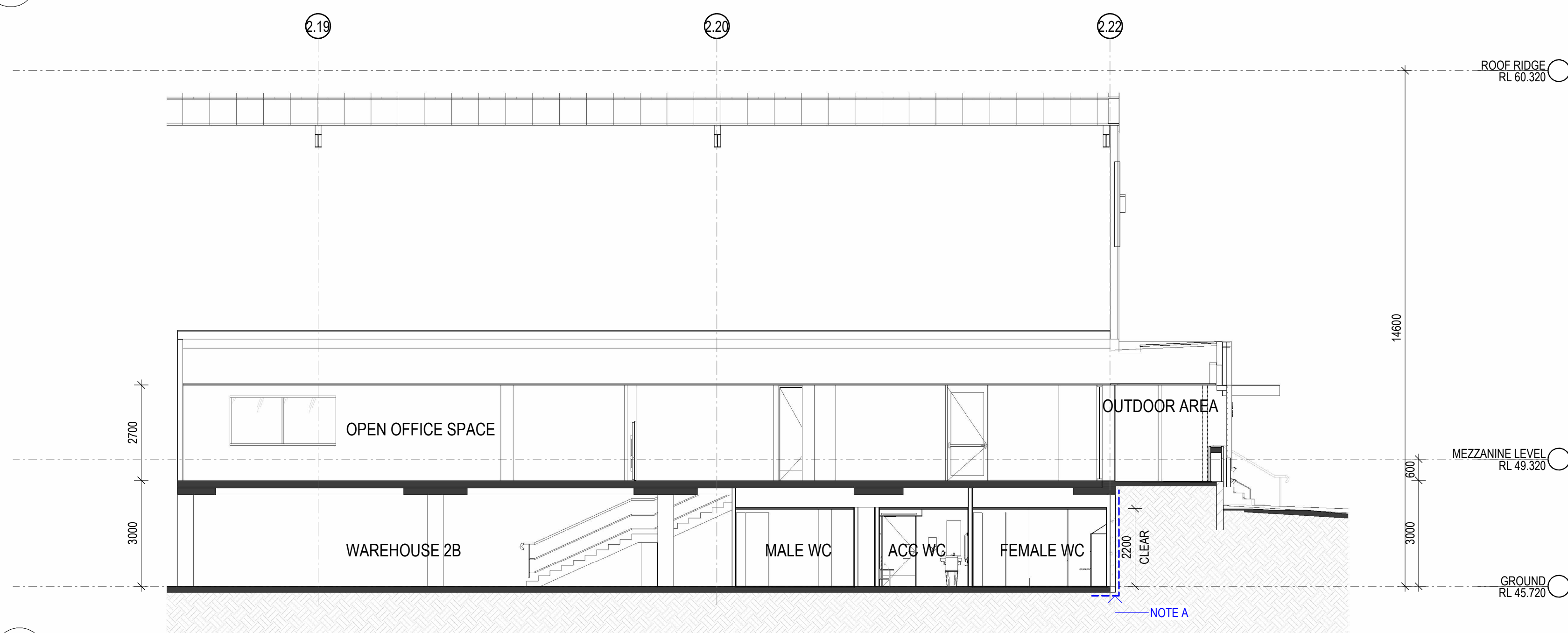
- 7. PRECAST CONCRETE PANEL - MONUMENT PAINT FINISH
- 8. PRECAST CONCRETE PANEL - OFF FORM FINISH
- 12. PREFINISHED SOLID METAL CLADDING - SIMILAR TO LYSAGHT DOMINION
- 13. ALUMINIUM CLADDING - FINISH - MONUMENT
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- 21. SUSPENDED STEEL FRAME
- 22. WELDED SOLID METAL BAR BALUSTRADE - PAINT FINISH
- 23. SPANDREL GLAZING - GREY
- 24. CONCRETE WITH ECOTONE FINISH - COLOUR TBC



3 OFFICE 2B ELEVATION SOUTH 1 : 100



4 OFFICE 2B ELEVATION EAST 1 : 100



5 OFFICE 2B - LONG SECTION 1 : 100

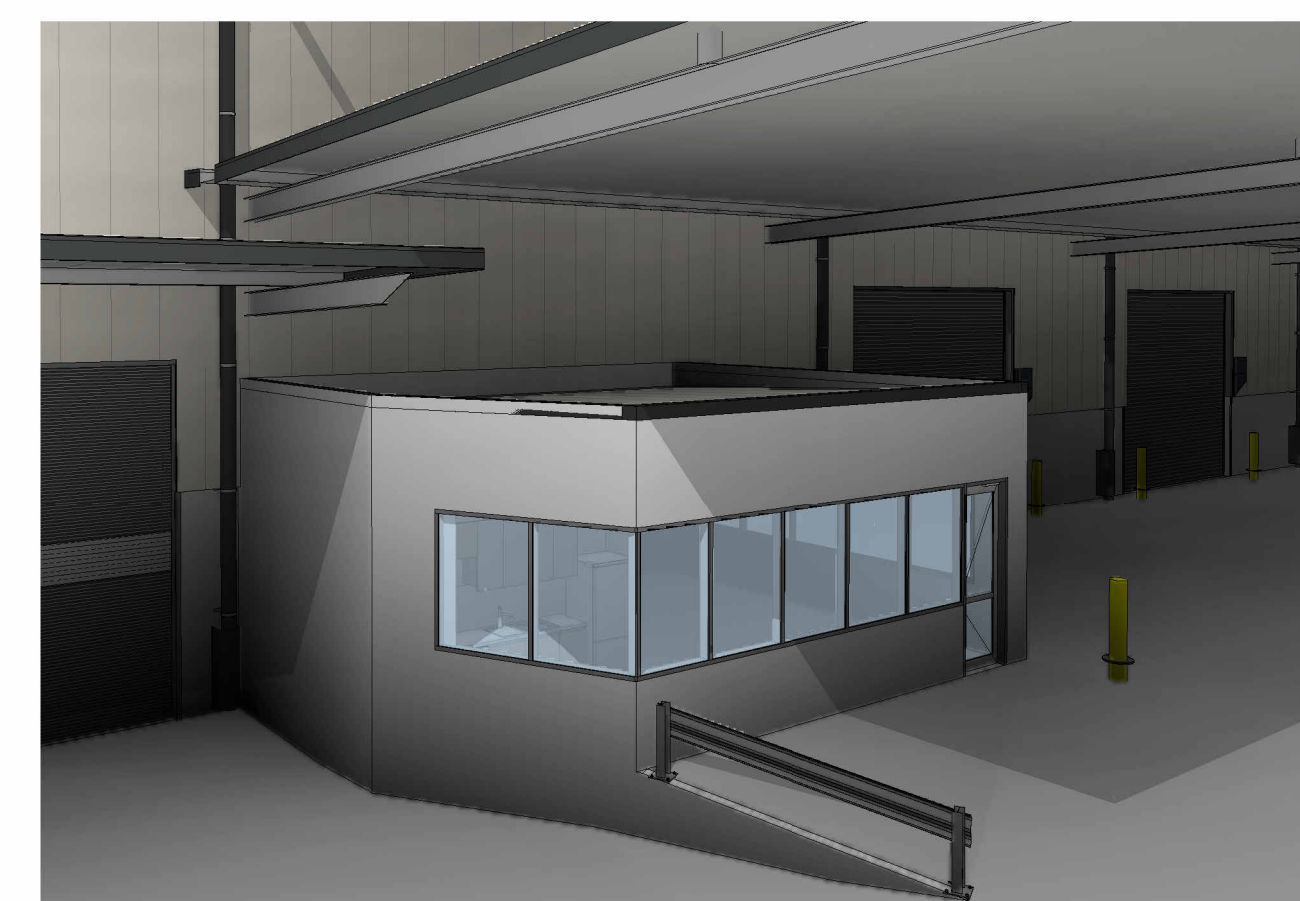
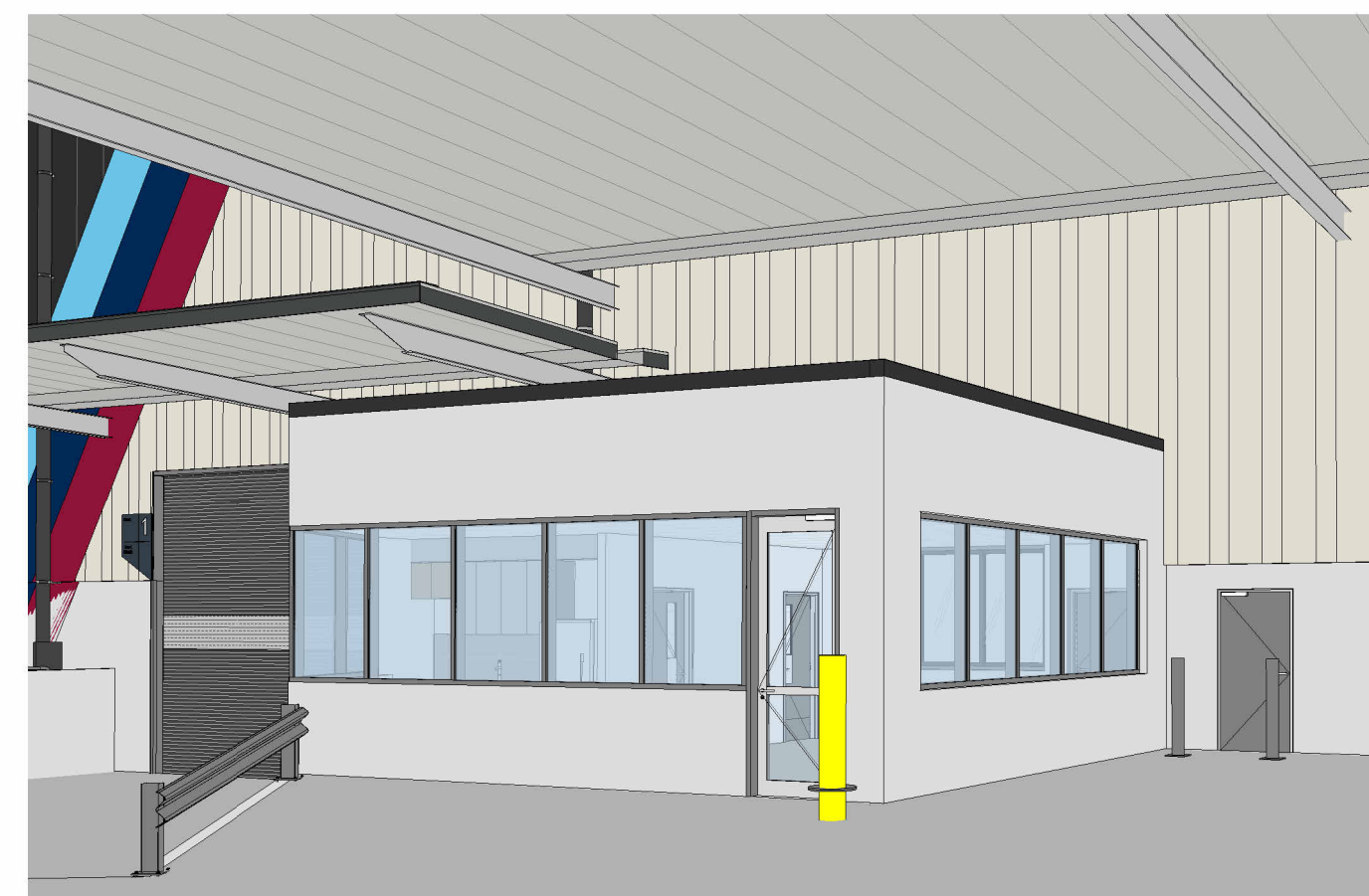
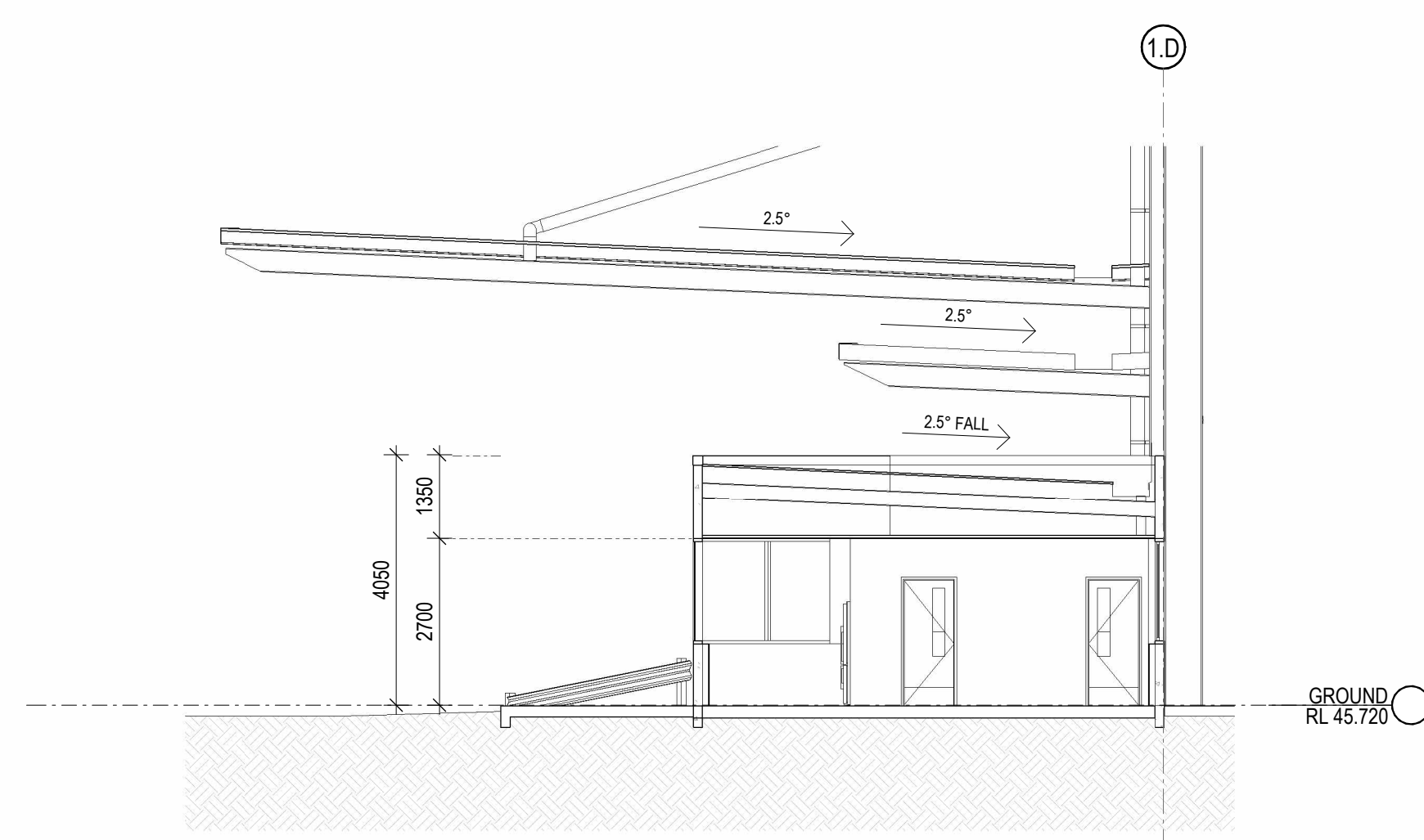
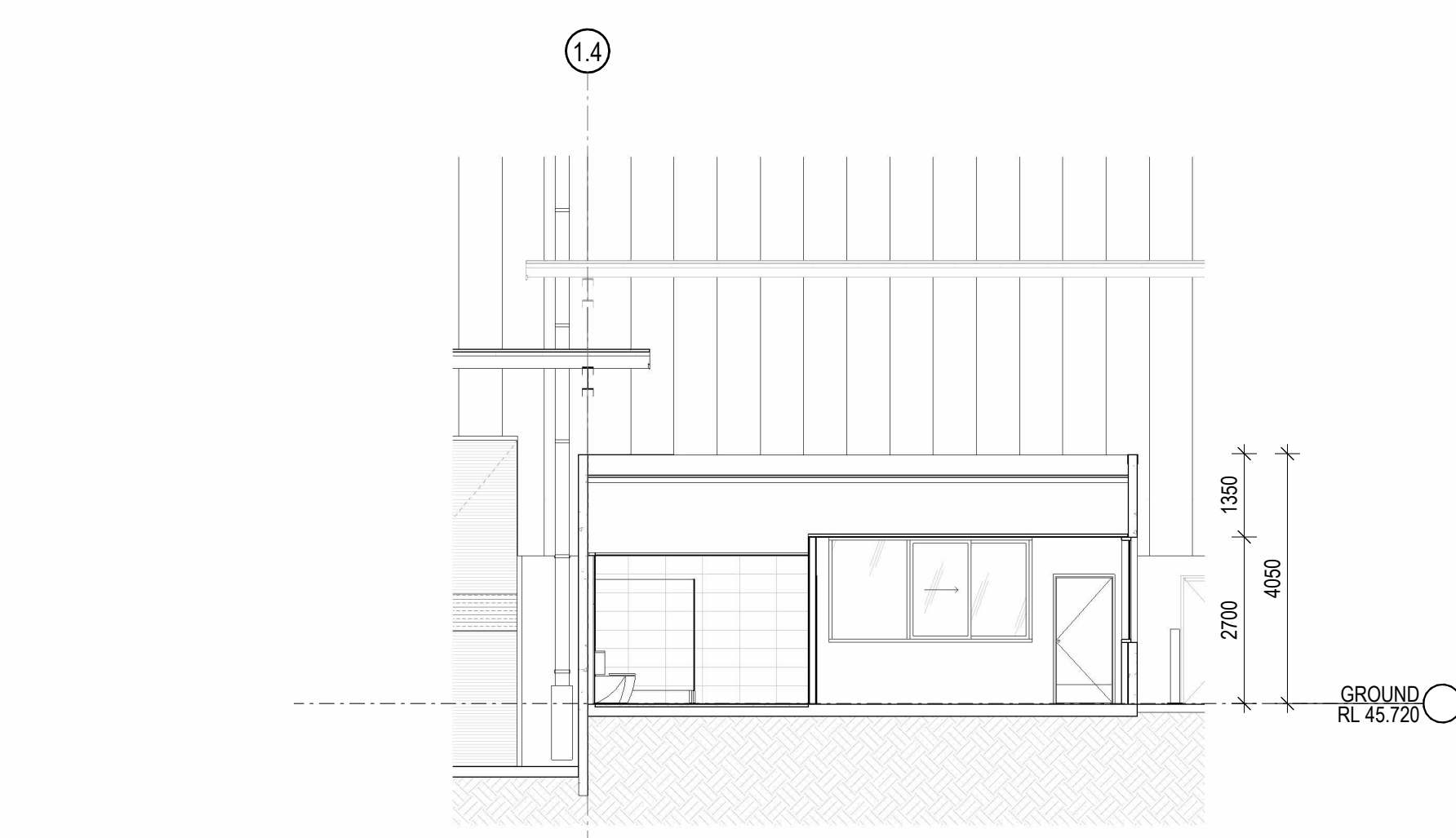
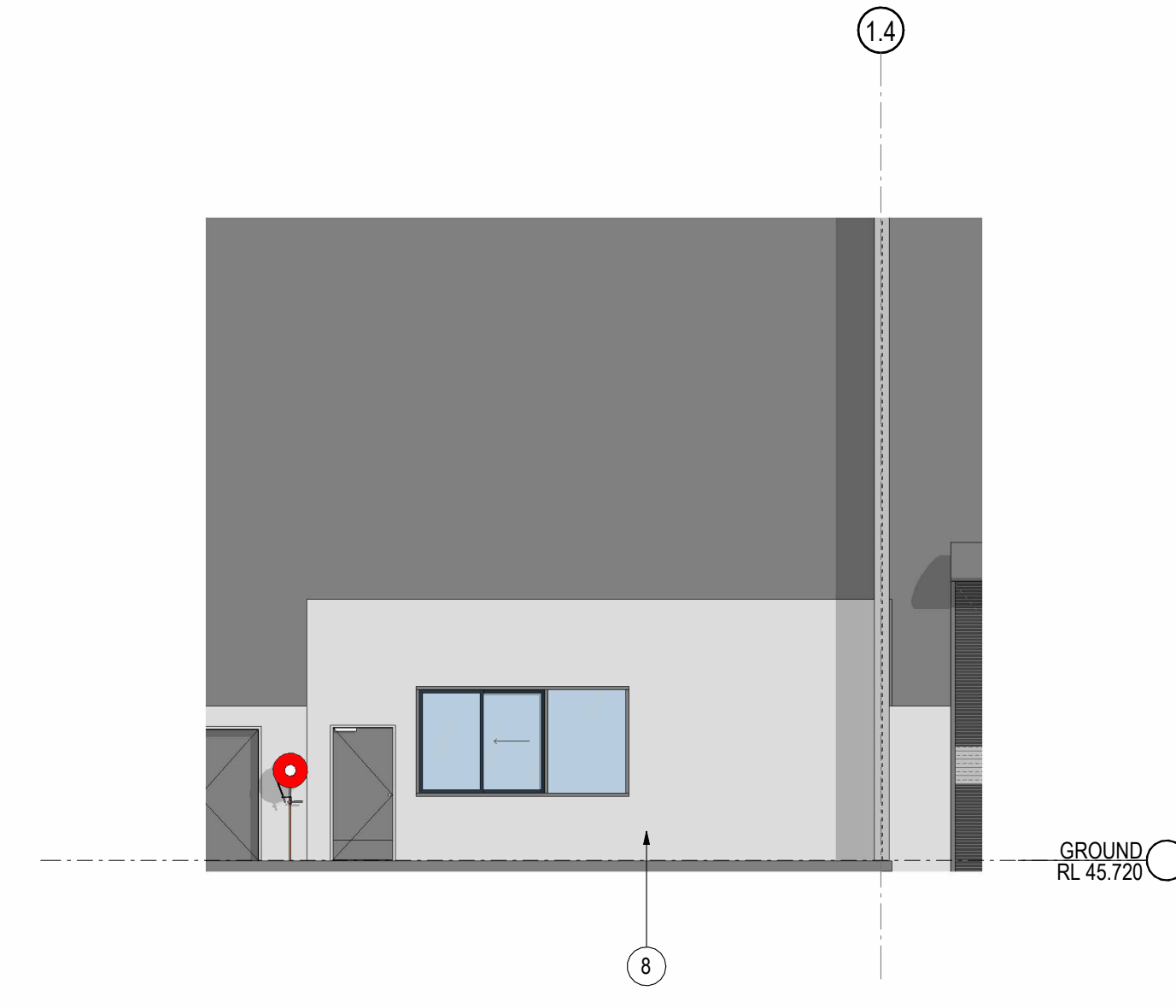
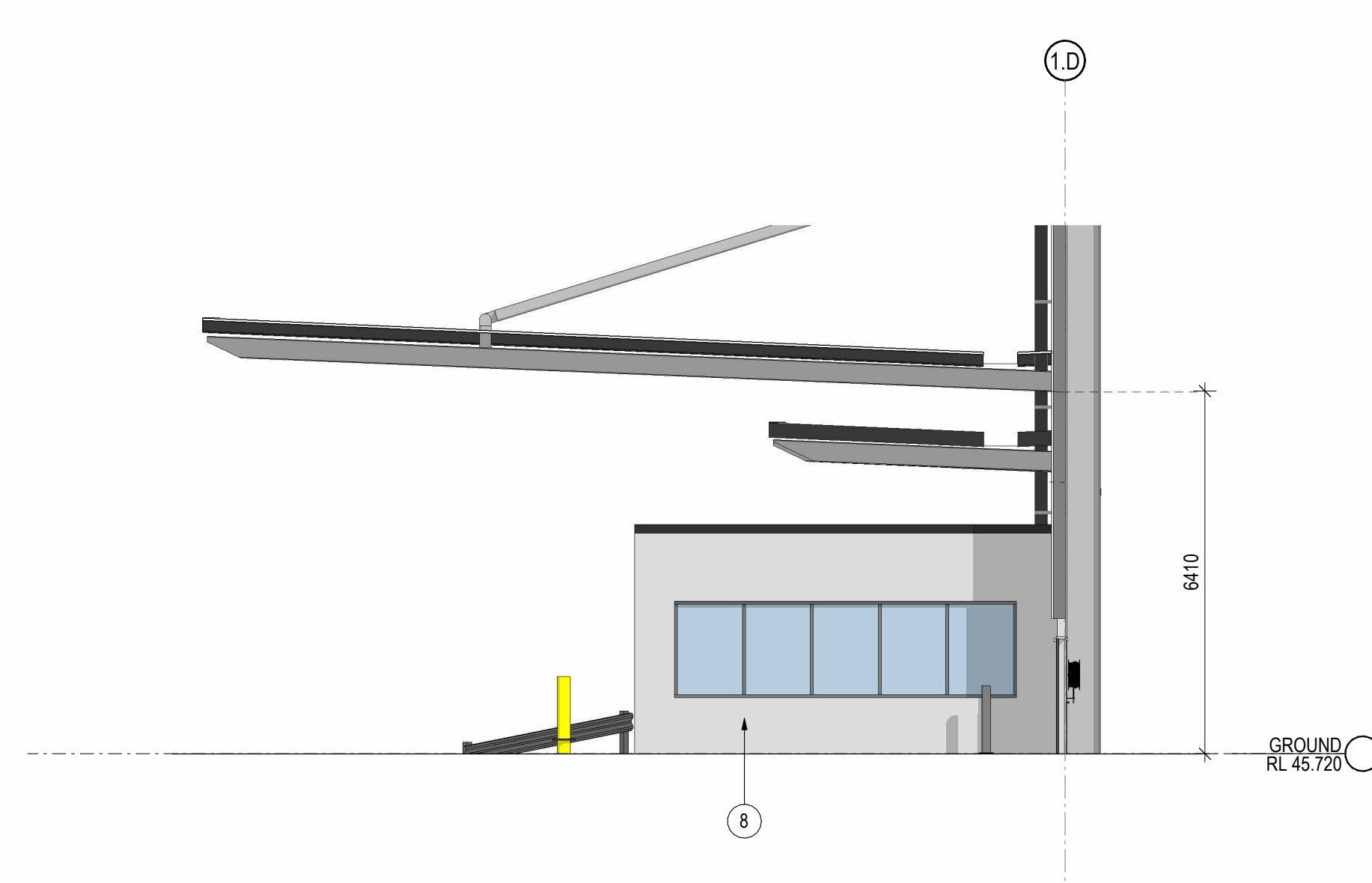
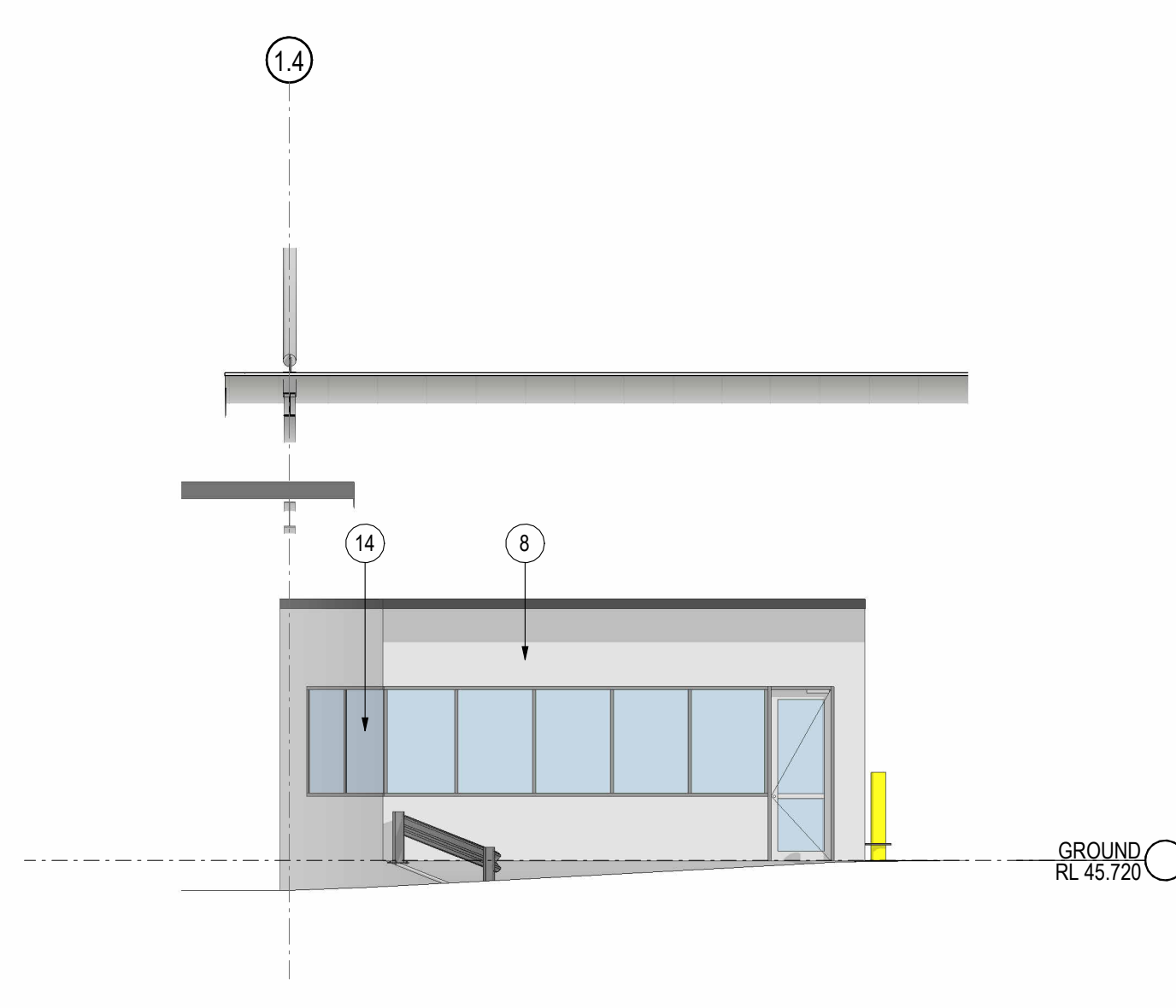
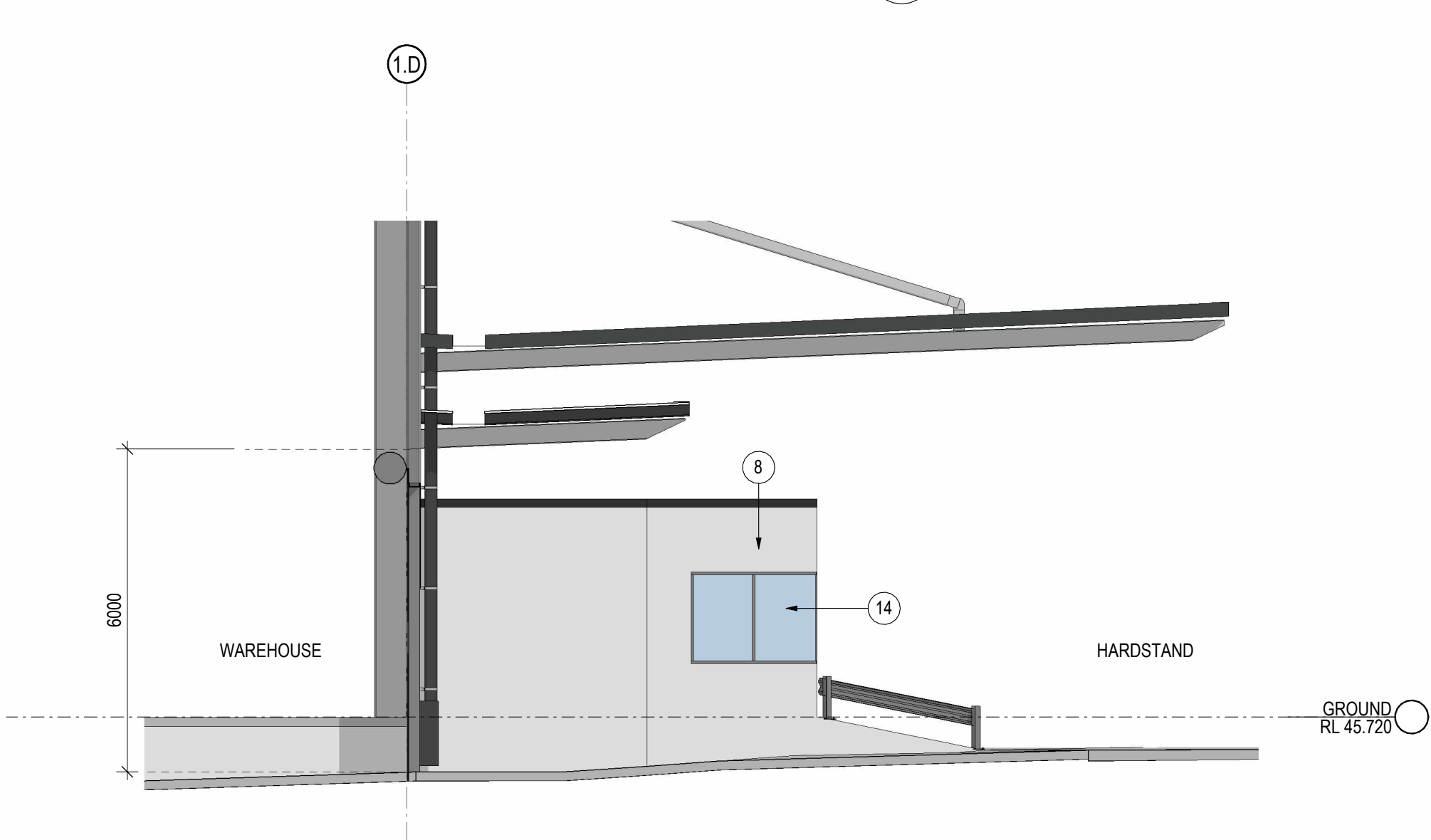
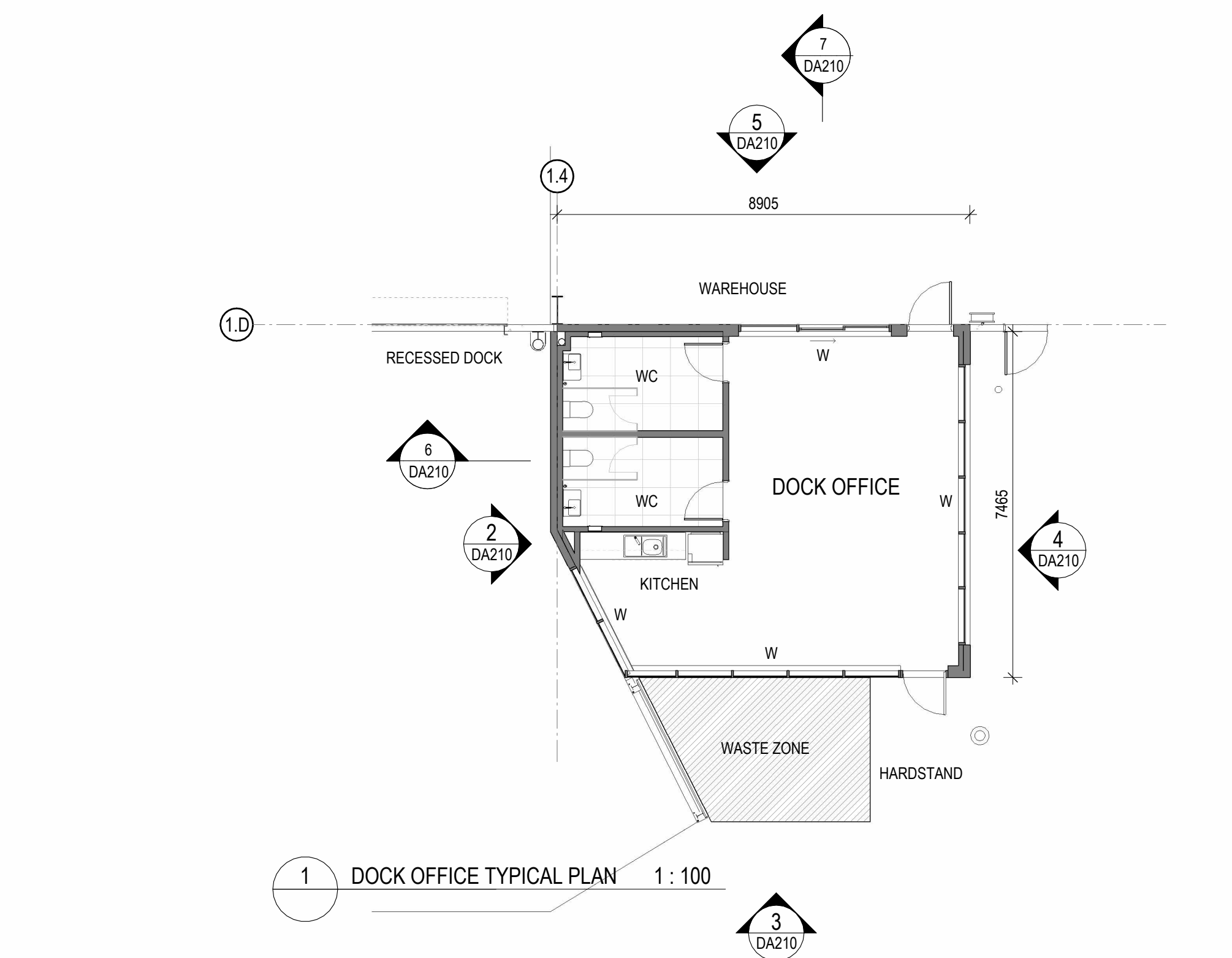


OFFICE 2B PERSPECTIVE - 1

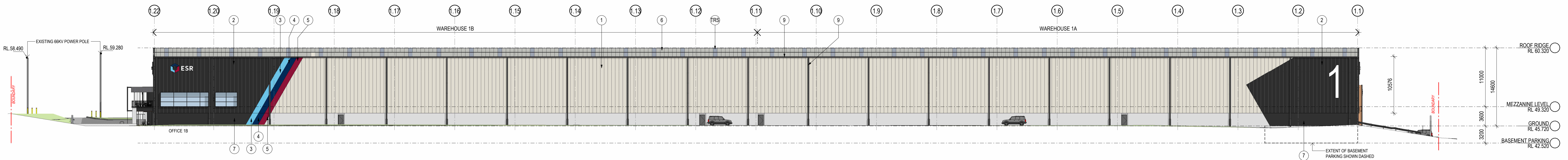


OFFICE 2B PERSPECTIVE - 2

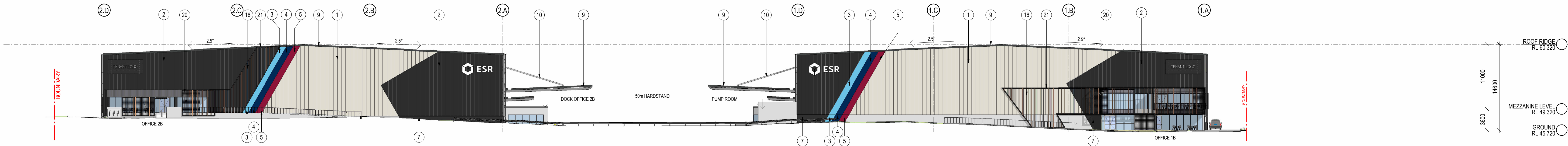
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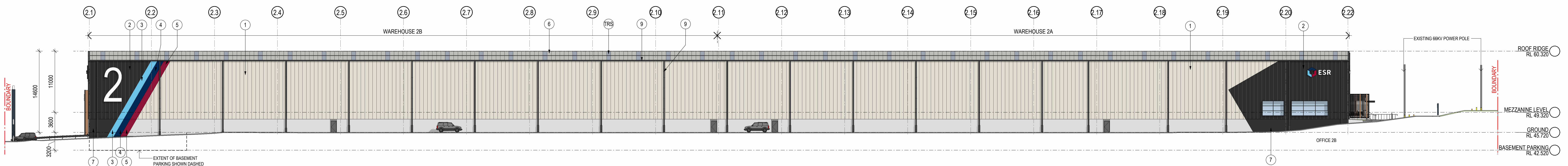
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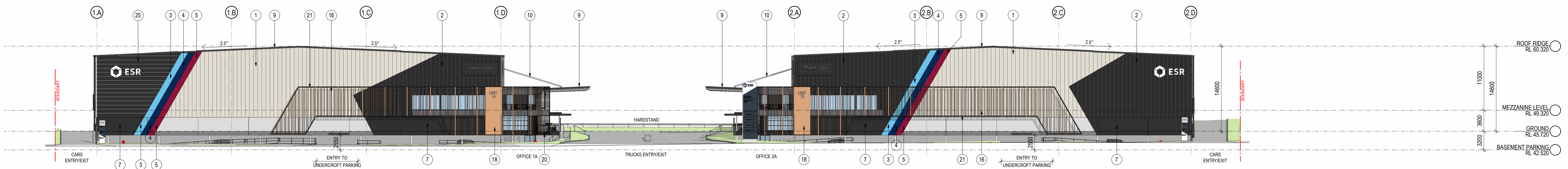
1 WH1 - NORTH ELEVATION 1:300



2 WH1 & WH2 - EAST ELEVATION 1:300



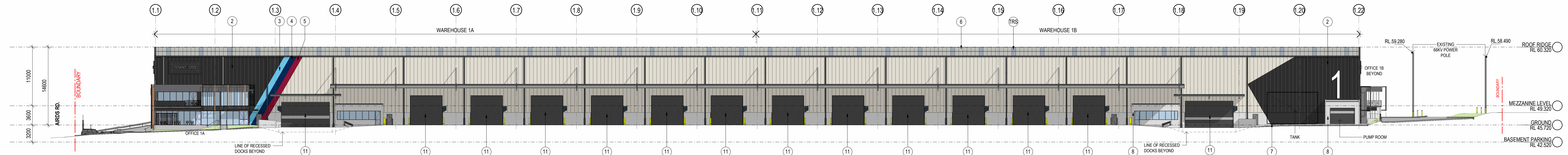
3 WH2 - SOUTH ELEVATION 1:300



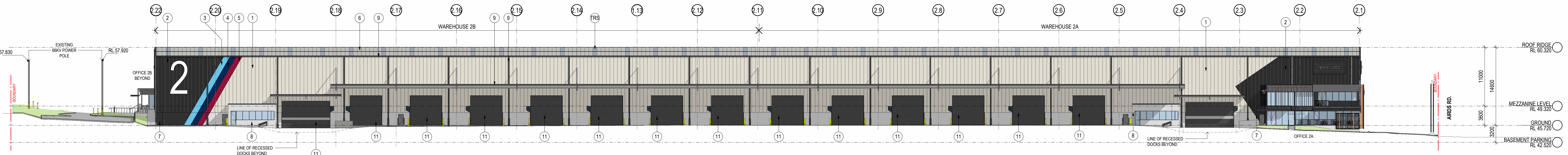
4 WH1 & WH2 - WEST ELEVATION 1:300

INDICATIVE EXTERNAL FINISHES		FINISHES SUBJECT TO AUTHORITY AND CLIENT APPROVAL	
	1. METAL WALL CLADDING - TRIMDEK PROFILE - COLORBOND - SURFMIST		6. METAL ROOF - SHALE GREY
	2. METAL WALL CLADDING - TRIMDEK PROFILE - COLORBOND - MONUMENT		7. PRECAST CONCRETE PANEL - MONUMENT PAINT FINISH
	3. PAINT FINISH LIGHT BLUE ESR - CORPORATE COLOUR		8. PRECAST CONCRETE PANEL - OFF FORM FINISH
	4. PAINT FINISH DARK BLUE ESR - CORPORATE COLOUR		9. DOWNPIPES, WH GUTTERS, FASCIAS & BARGE COVERS - COLORBOND - MONUMENT
	5. PAINT FINISH RED ESR - CORPORATE COLOUR		10. STEEL AT AWNINGS - GALVANISED FINISH
	11. ROLLER SHUTTER DOOR - COLORBOND - MONUMENT		12. PREFINISHED SOLID METAL CLADDING - SIMILAR TO LYSAGHT DOMINION
	13. ALUMINIUM CLADDING - FINISH - MONUMENT		14. GLAZING - WINDOW - DOUBLE GLAZED GREY TINT
	15. ALU. FRAME GLAZING SYSTEM - POWDERCOAT FINISH - ZEUS DARK GREY		16. ALU. BATTENS - TMBER FINISH
	17. TRS. TRANSLUCENT ROOF SHEETING - OPAL		18. DECOBATTEN WITH BLACK BACKING
	19. TIMBER LOOK ALUMINIUM CLADDING EQUAL TO DECOCLAD V-GROOVE 180mm BOARD WIDTH - COLOUR TO MATCH BATTEN SCREEN		20. STEEL MESH BACKING SCREEN
	21. SUSPENDED STEEL FRAME		22. METAL WALL CLADDING - TRIMDEK PROFILE - COLORBOND - MONUMENT

ISSUED FOR DA



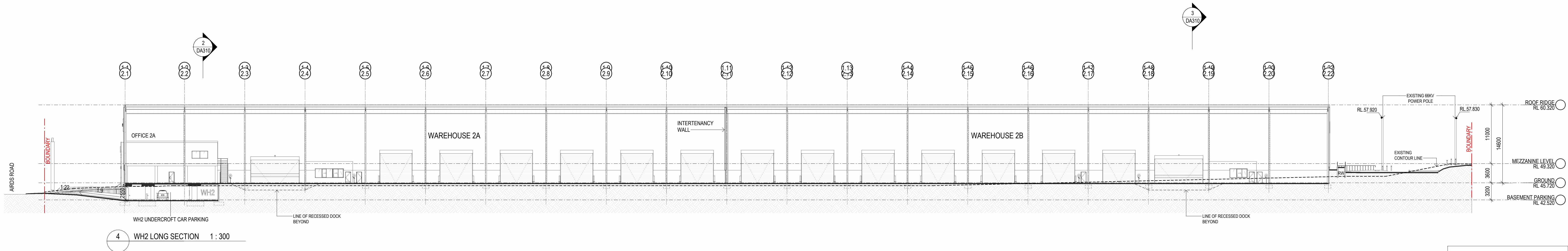
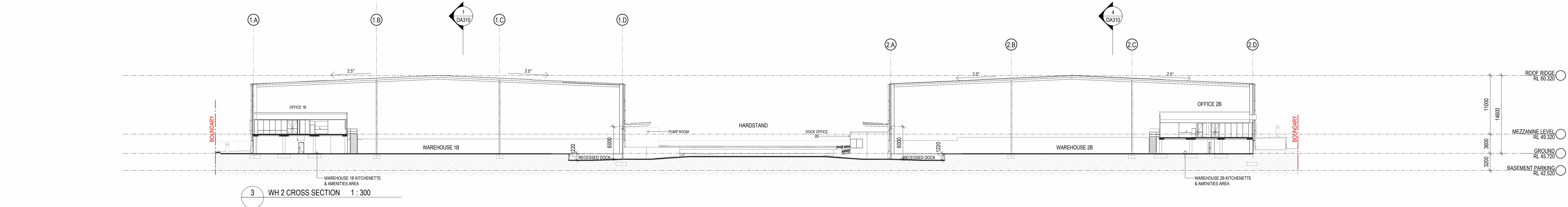
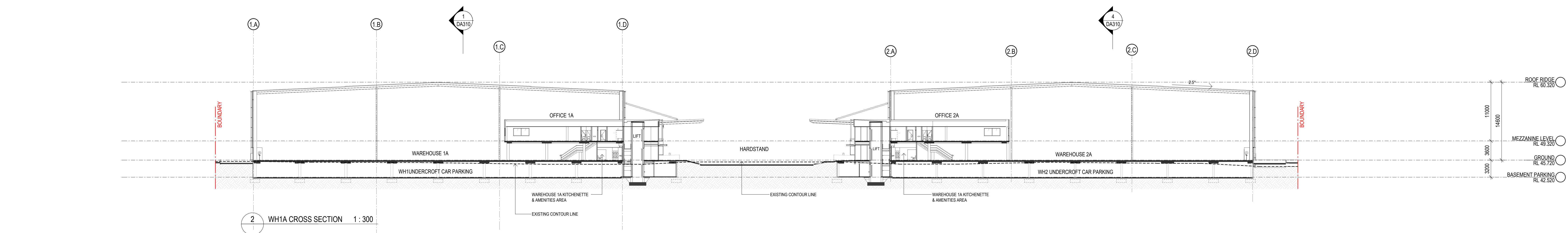
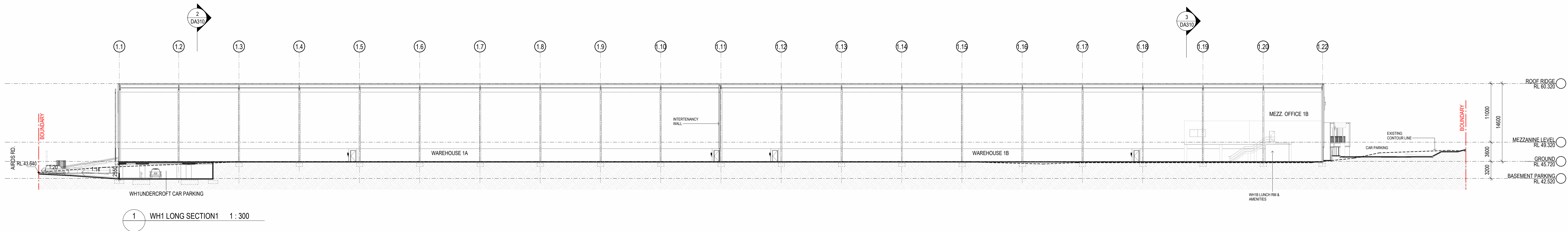
1 WH1 - SOUTH ELEVATION (FACING HARDSTAND) 1 : 300



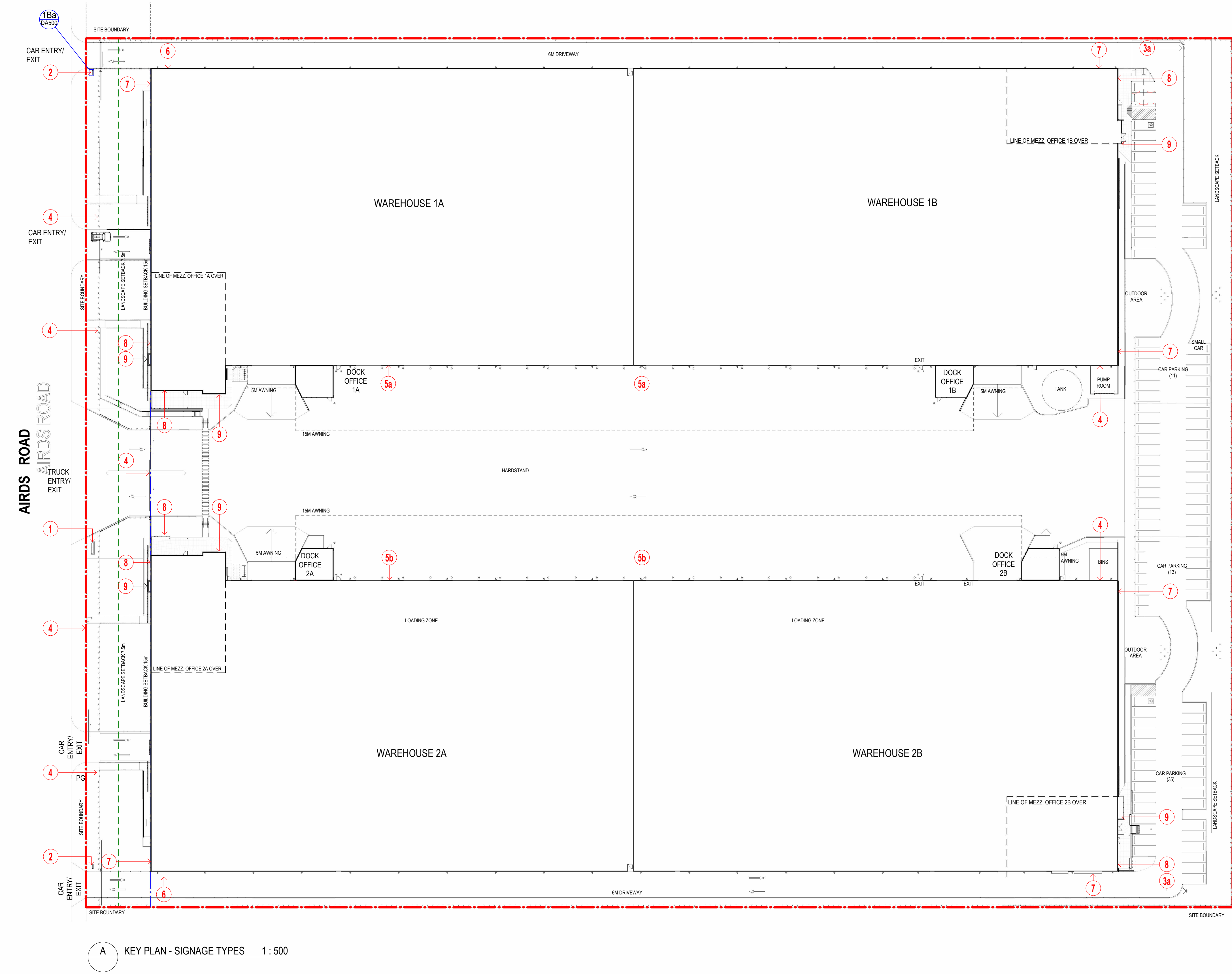
2 WH2 - NORTH ELEVATION (FACING HARDSTAND) 1 : 300

INDICATIVE EXTERNAL FINISHES		FINISHES SUBJECT TO AUTHORITY AND CLIENT APPROVAL			
	1. METAL WALL CLADDING - TRIMDEK PROFILE - COLORBOND - SURFMIST		6. METAL ROOF - SHALE GREY		11. ROLLER SHUTTER DOOR - COLORBOND - MONUMENT
	2. METAL WALL CLADDING - TRIMDEK PROFILE - COLORBOND - MONUMENT		7. PRECAST CONCRETE PANEL - MONUMENT PAINT FINISH		12. PREFINISHED SOLID METAL CLADDING - SIMILAR TO LYSAGHT DOMINION
	3. PAINT FINISH LIGHT BLUE ESR - CORPORATE COLOUR		8. PRECAST CONCRETE PANEL - OFF FORM FINISH		13. ALUMINIUM CLADDING - FINISH - MONUMENT
	4. PAINT FINISH DARK BLUE ESR - CORPORATE COLOUR		9. DOWNPIPES, WH GUTTERS, FASCIAS & BARGE COVERS - COLORBOND - MONUMENT		14. GLAZING - WINDOW - DOUBLE GLAZED GREY TINT
	5. PAINT FINISH RED ESR - CORPORATE COLOUR		10. STEEL AT AWNINGS - GALVANISED FINISH		15. ALU. FRAME GLAZING SYSTEM - POWDERCOAT FINISH - ZEUS DARK GREY
					16. ALU. BATTENS - TIMBER FINISH
					17. TRS. TRANSLUCENT ROOF SHEETING - OPAL
					18. DECOBATTEN WITH BLACK BACKING
					19. TIMBER LOOK ALUMINIUM CLADDING EQUAL TO DECOCLAD V-GROOVE 180mm BOARD WIDTH - COLOUR TO MATCH BATTEN SCREEN
					20. STEEL MESH BACKING SCREEN
					21. SUSPENDED STEEL FRAME
					22. METAL WALL CLADDING - TRIMDEK PROFILE - COLORBOND - MONUMENT

ISSUED FOR DA



ISSUED FOR DA

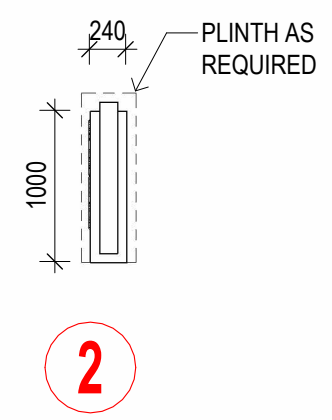


A KEY PLAN - SIGNAGE TYPES 1 : 500

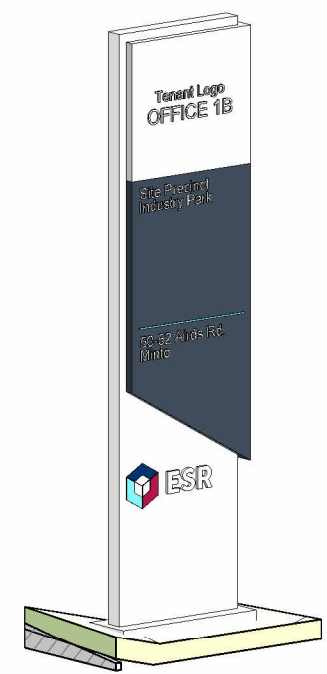
IDENTIFICATION SIGN TYPE 2 SMALL SITE IDENTIFICATION- 6M

ESR Signage Guidelines Ref: ID7f

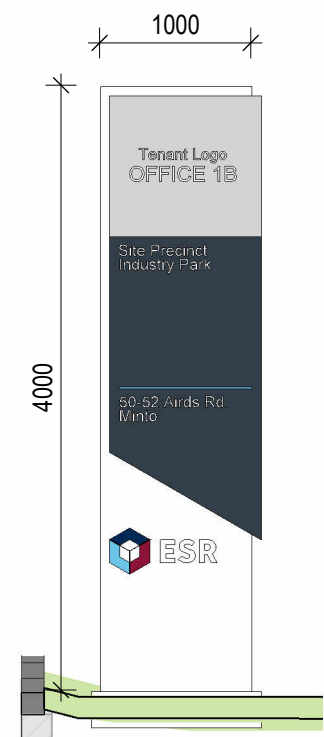
- > FREESTANDING
- > DOUBLE-SIDED
- > ILLUMINATED



TYPE 1b SIGNAGE - PLAN



SIGNAGE TYPE 1b - ISO



SIGNAGE 1b FRONT ELEVATION

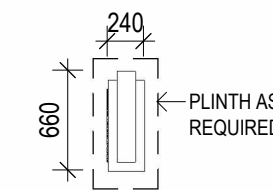


SIGNAGE TYPE 1b PERSPECTIVE

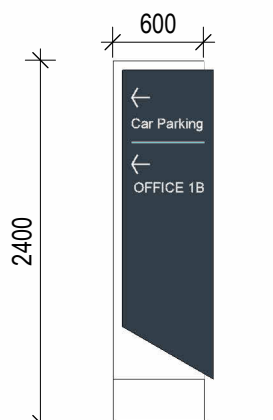
DIRECTIONAL SIGN TYPE 3A VEHICULAR DIRECTIONAL - 2.4m

ESR Signage Guidelines Ref: D1f

- > FREESTANDING
- > DOUBLE-SIDED
- > NON-ILLUMINATED



TYPE 3a SIGNAGE - PLAN



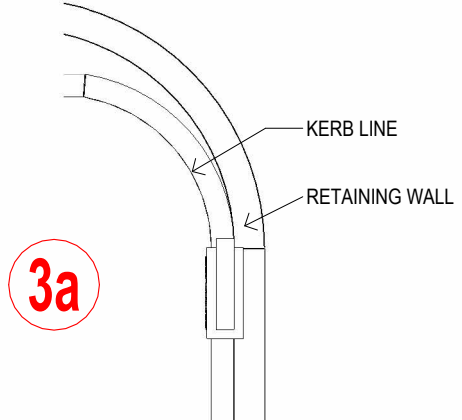
SIGNAGE 3A - D1f



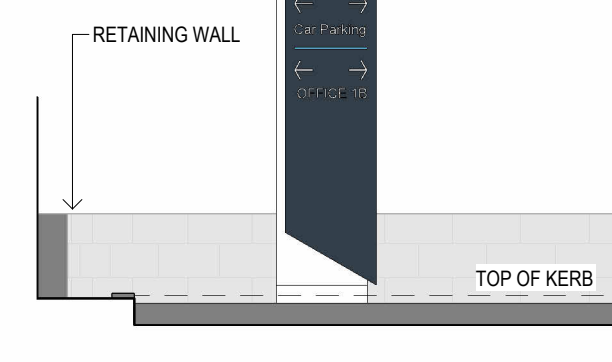
3D ISO - TYPE 3A

DIRECTIONAL SIGN TYPE 3B VEHICULAR DIRECTIONAL - 2.4m

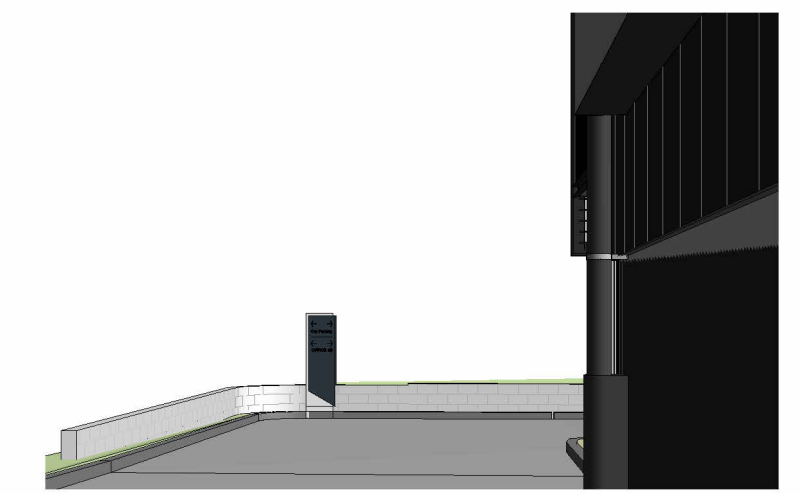
ESR Signage Guidelines Ref: D1f



SIGNAGE SIGNAGE 3B



SIGNAGE TYPE 3 - DIRECTIONAL



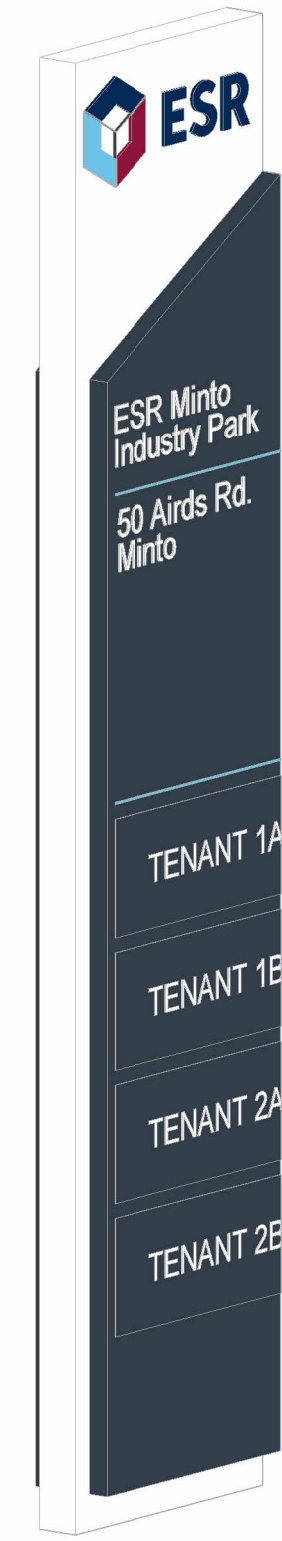
3D VIEW - VEHICULAR DIRECTIONAL SIGNAGE

ISSUED FOR DA

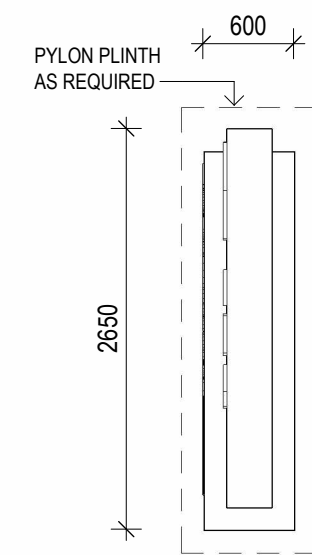
IDENTIFICATION SIGN TYPE 1 LARGE SITE IDENTIFICATION - 10M

ESR Signage Guidelines Ref: ID3f

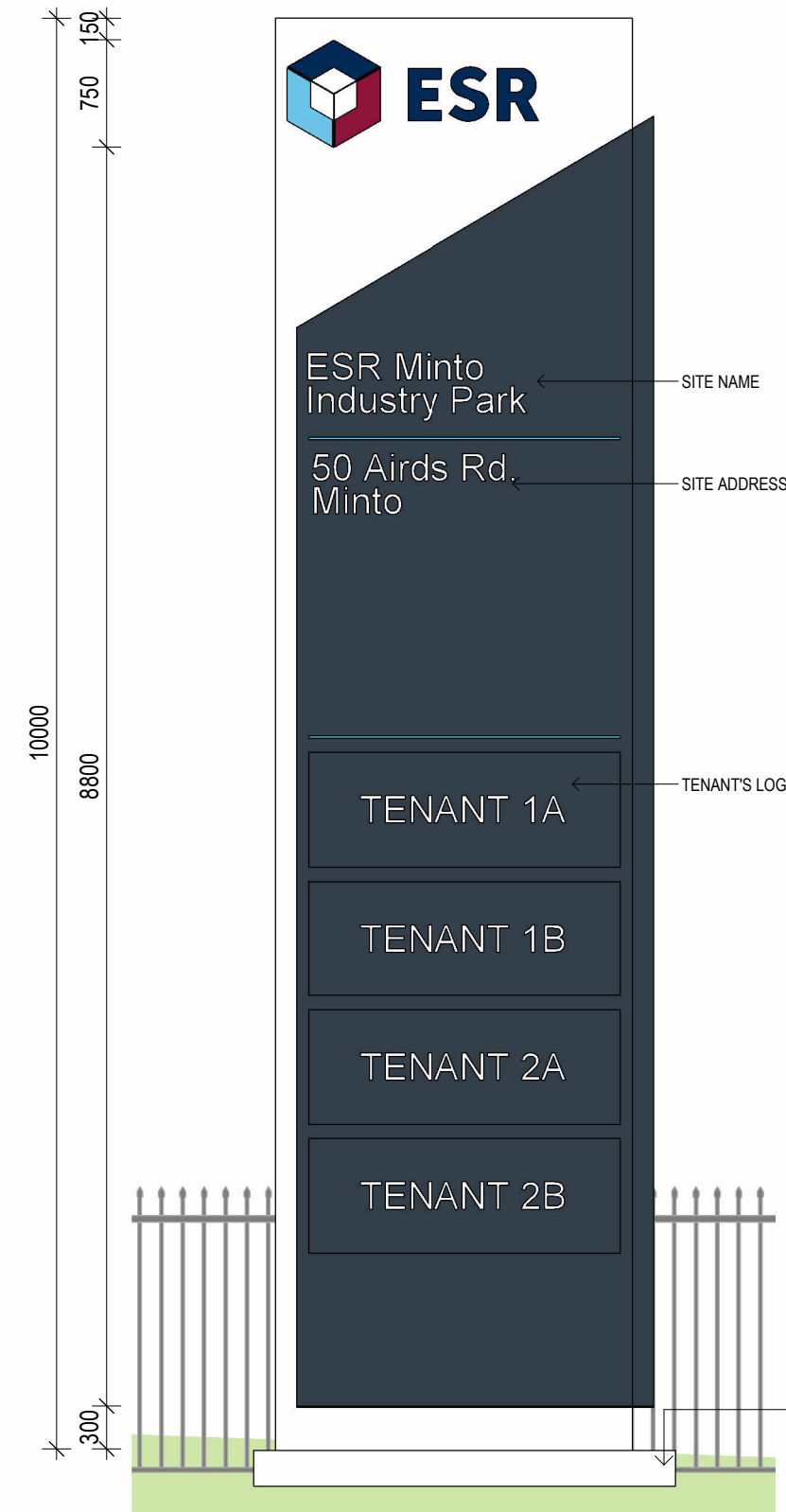
- > FREESTANDING
- > DOUBLE-SIDED
- > ILLUMINATED



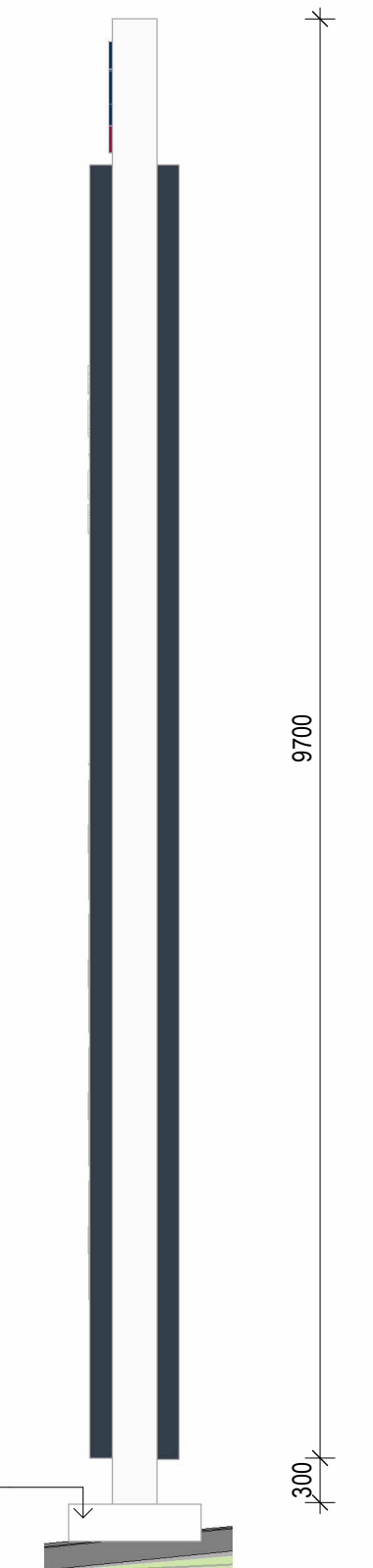
TYPE 1a - ISO VIEW



TYPE 1a SIGNAGE - PLAN



TYPE 1a - FRONT ELEVATION



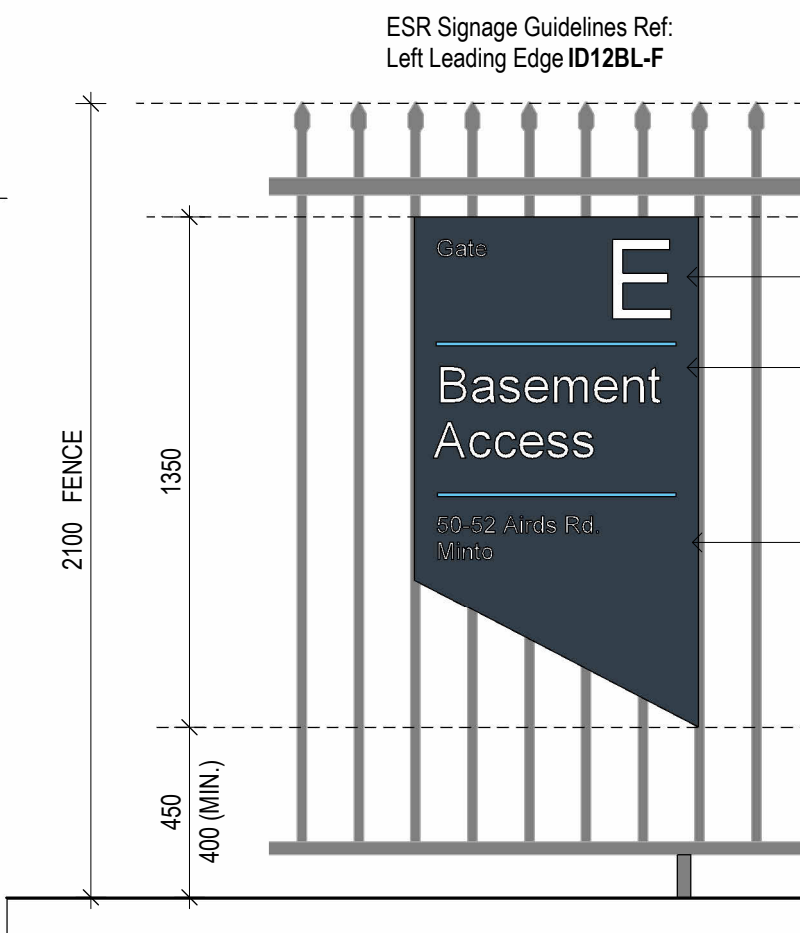
TYPE 1a - SIDE ELEVATION



3D SIGNAGE TYPE 1a

IDENTIFICATION SIGN
TYPE No. 4
Gate/ Entry Identification
(Small)

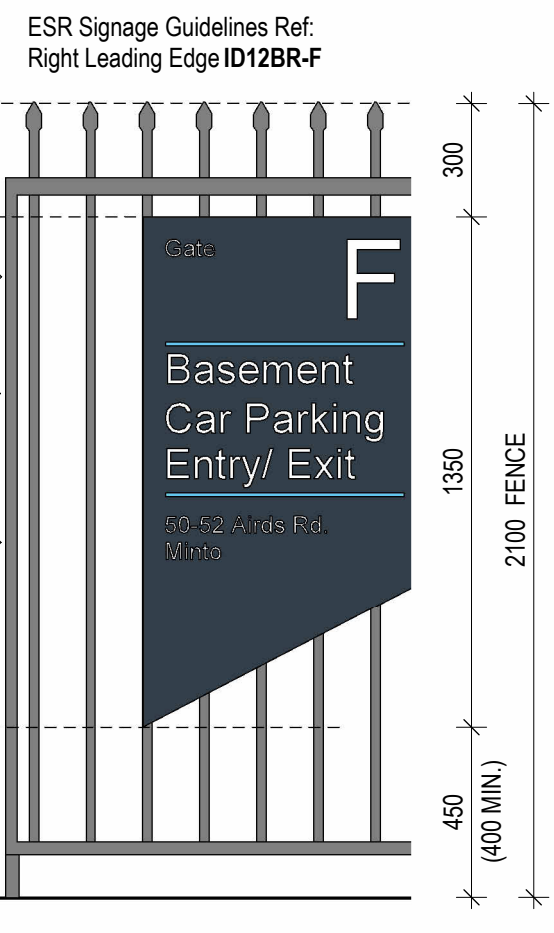
- > FENCE MOUNTED
- > SINGLE-SIDED
- > NON-ILLUMINATED



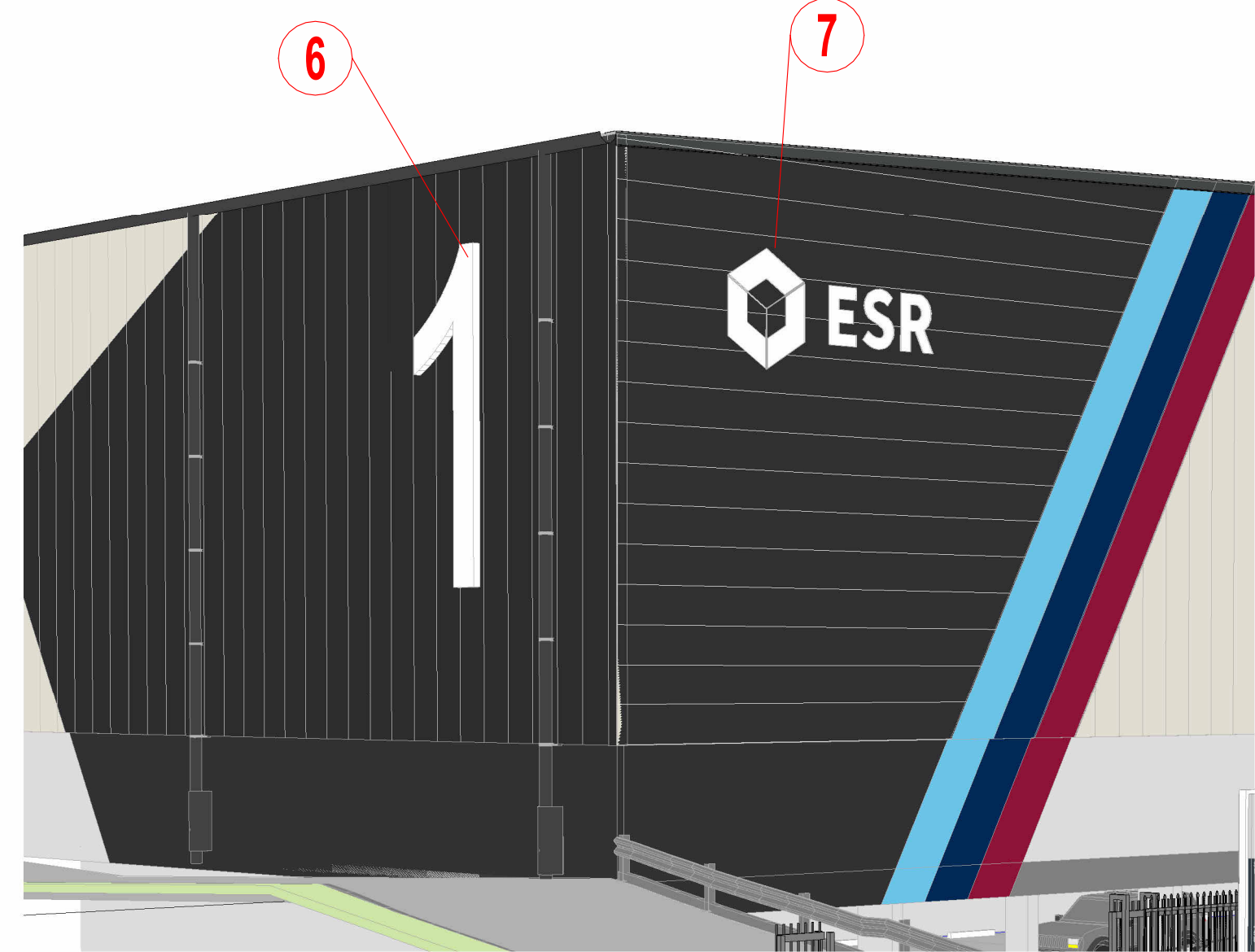
GATE NUMBER : TBC BY CLIENT
SIGNAGE LABEL :
TBC BY CLIENT
SITE ADDRESS

4

SIGNAGE DETAIL - GATE/ ENTRY



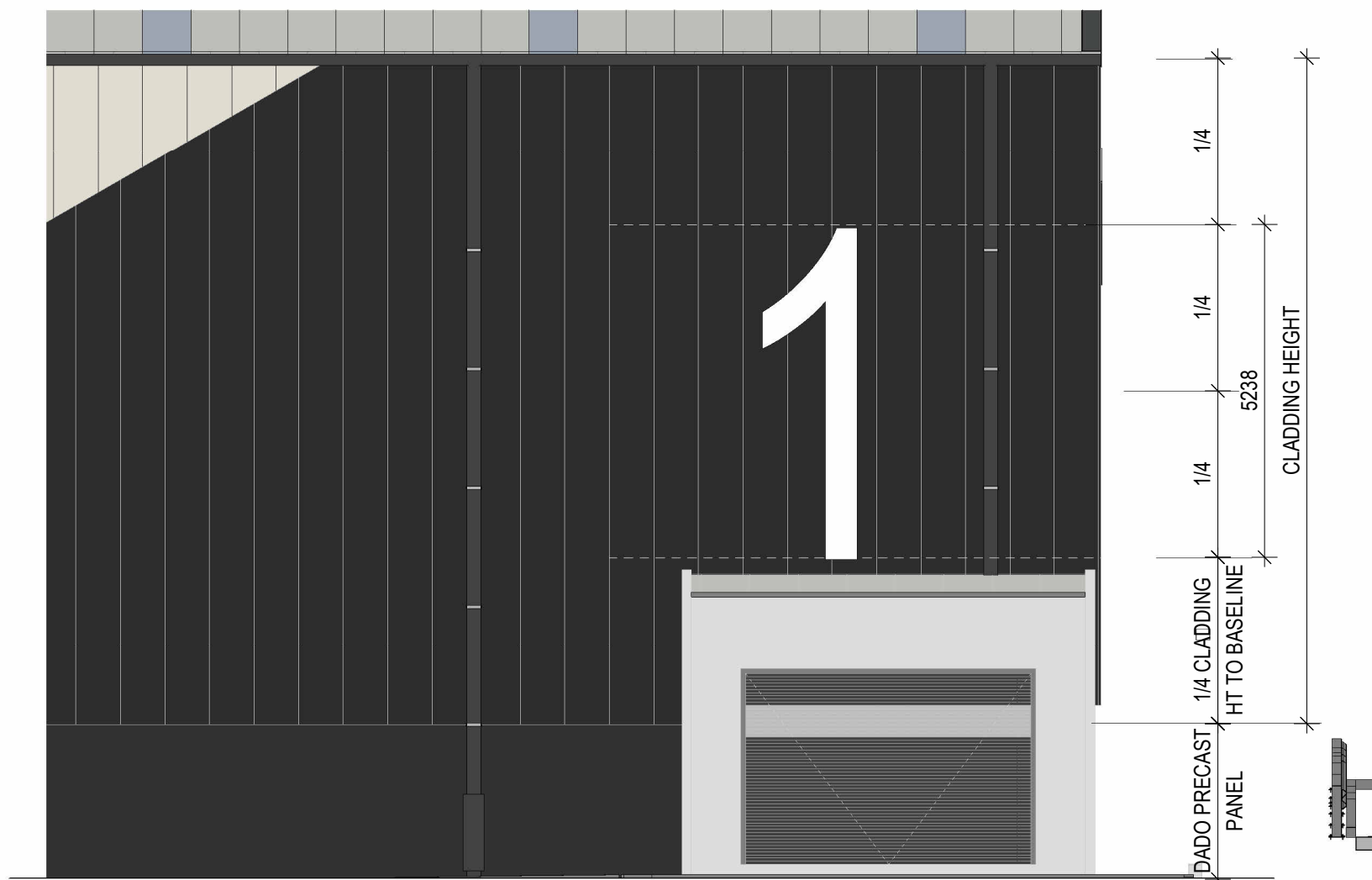
GATE NUMBER : TBC BY CLIENT
SIGNAGE LABEL :
TBC BY CLIENT
SITE ADDRESS



3D SIGNAGE - WAREHOUSE

IDENTIFICATION SIGN
TYPE No. 4
Building Code Identification

- ESR Signage Guidelines Ref: ID15F
- > WALL MOUNTED
 - > SINGLE-SIDED
 - > NON-ILLUMINATED

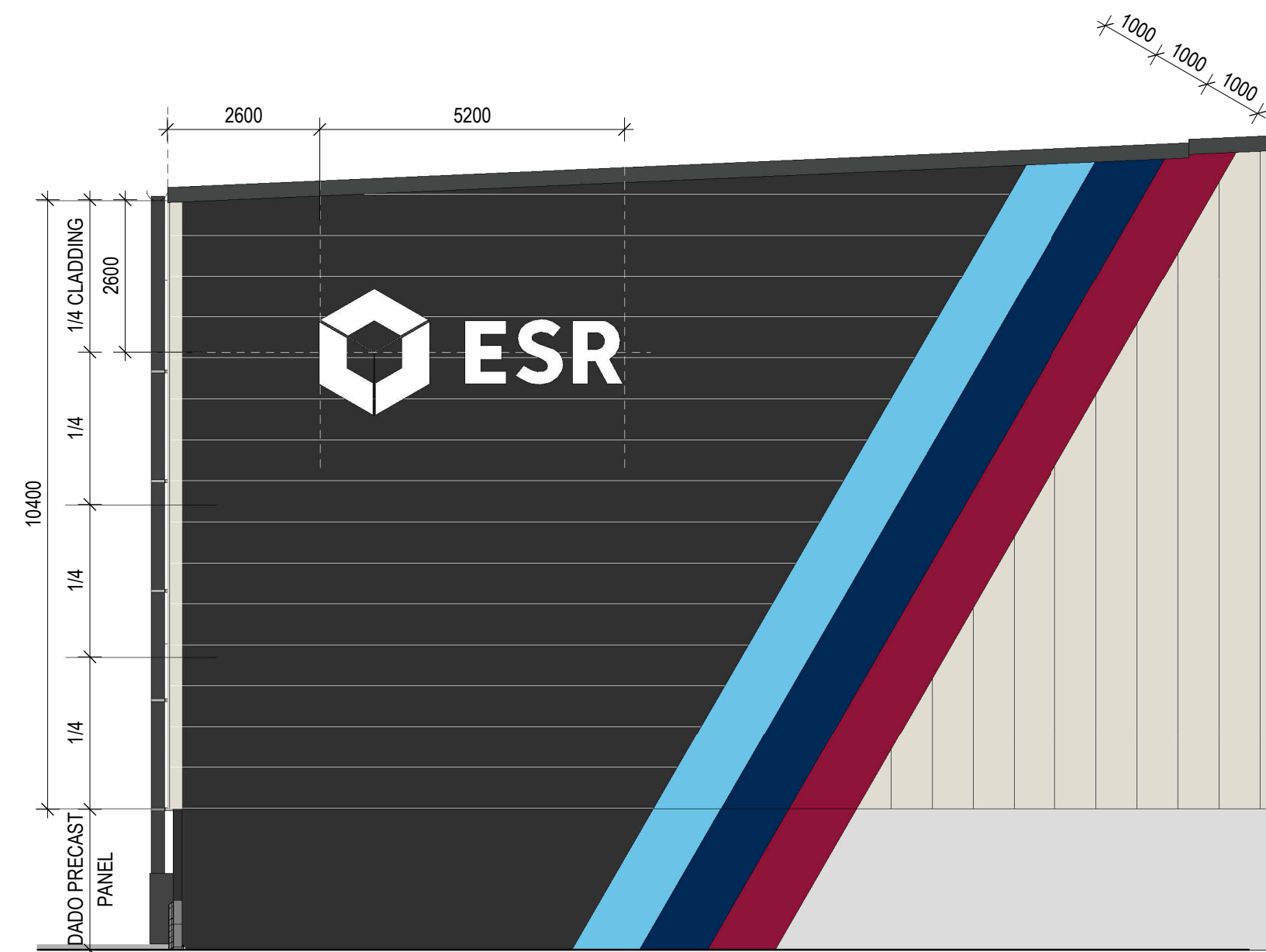


6

SIGNAGE DETAIL - WAREHOUSE WALL NUMBER

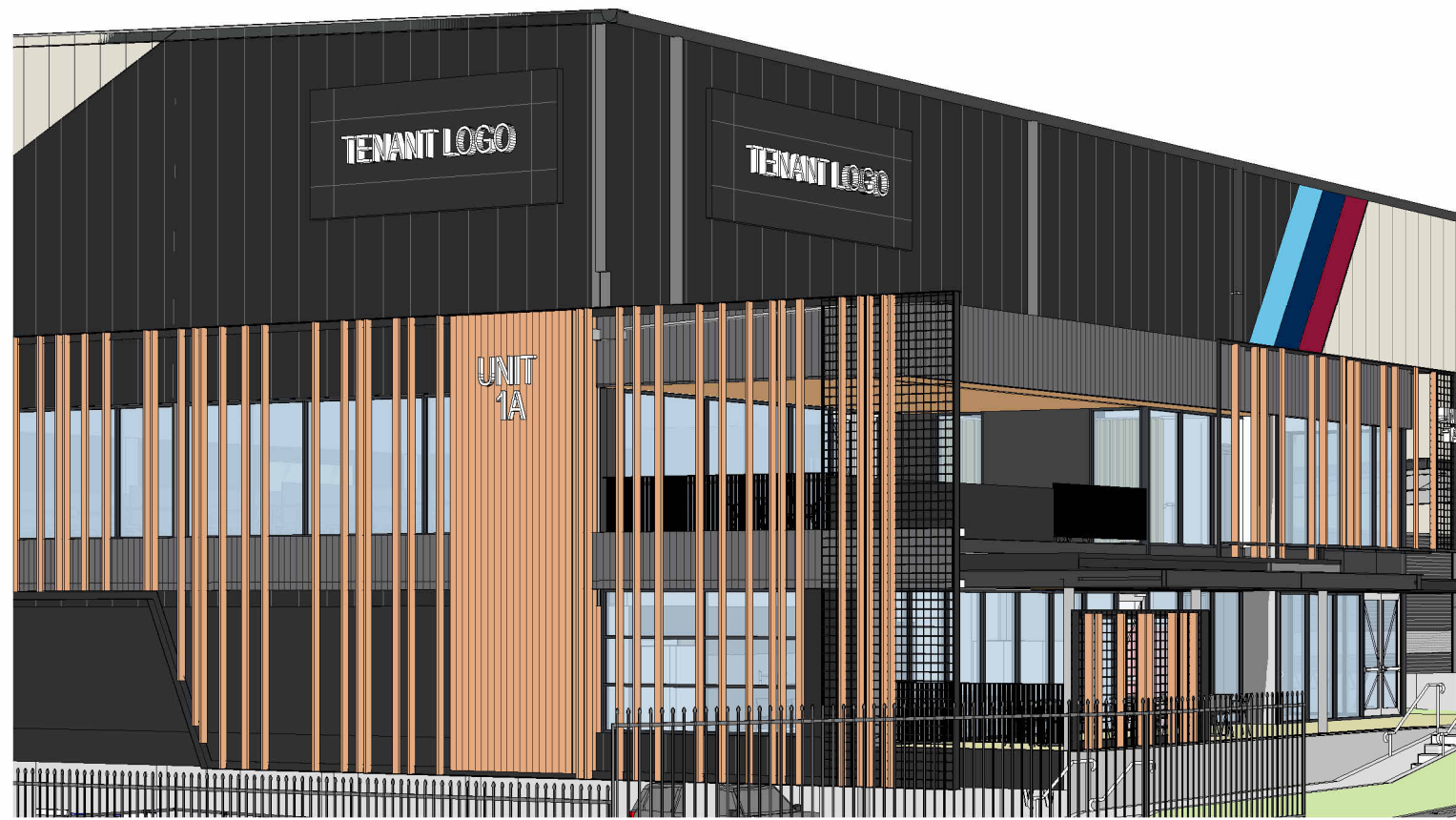
IDENTIFICATION SIGN
TYPE No. 5
High Level Building
Identification (Mono)

- ESR Signage Guidelines Ref: ID14F
- > WALL MOUNTED
 - > SINGLE-SIDED
 - > NON-ILLUMINATED



7

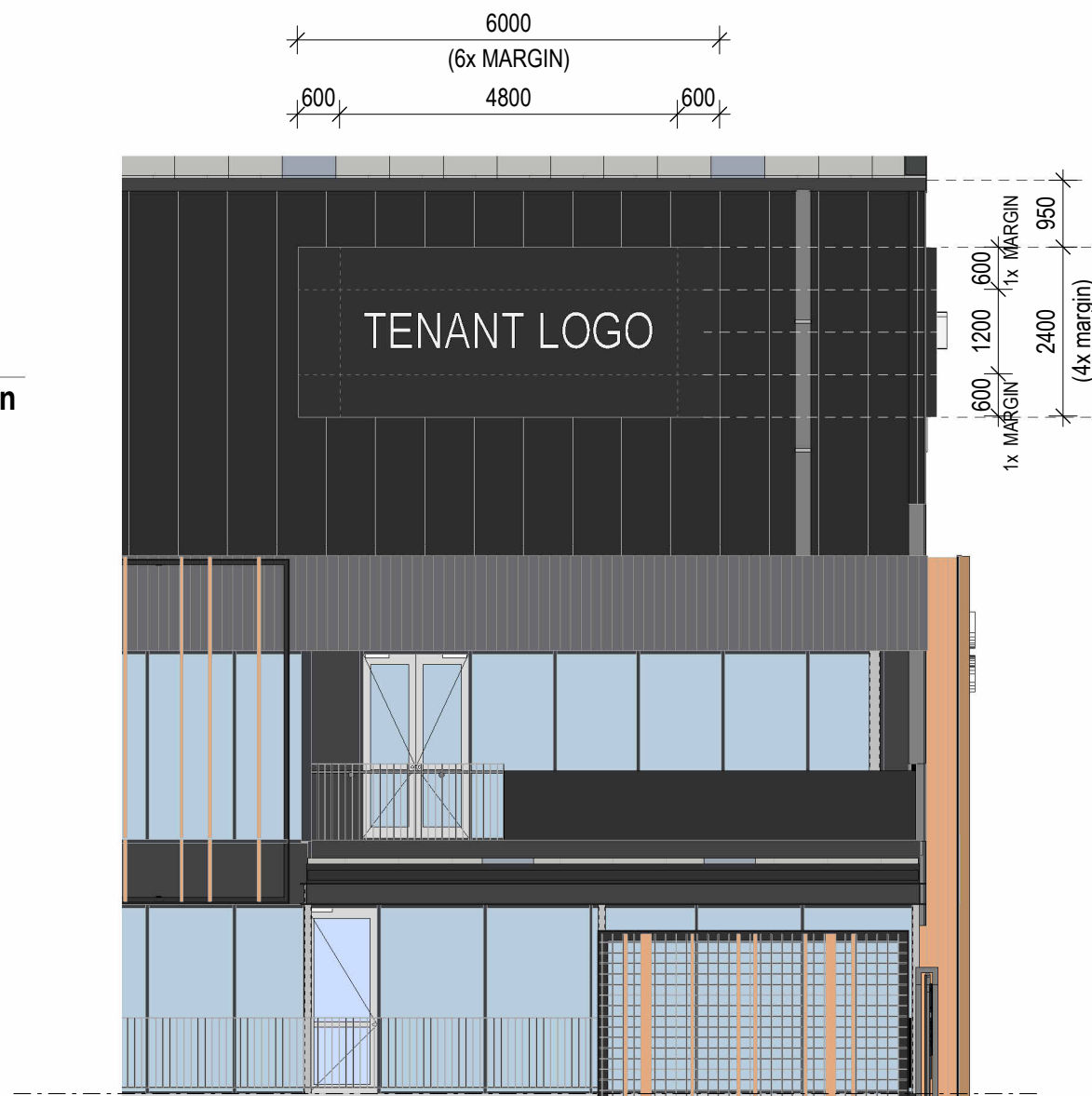
SIGNAGE DETAIL - WAREHOUSE WALL



3D SIGNAGE - TENANT LOGO

IDENTIFICATION SIGN
TYPE No. 8
Building Tenant Identification

- ESR Signage Guidelines Ref: ID21w
- > WALL MOUNTED
 - > SINGLE-SIDED
 - > NON-ILLUMINATED



8

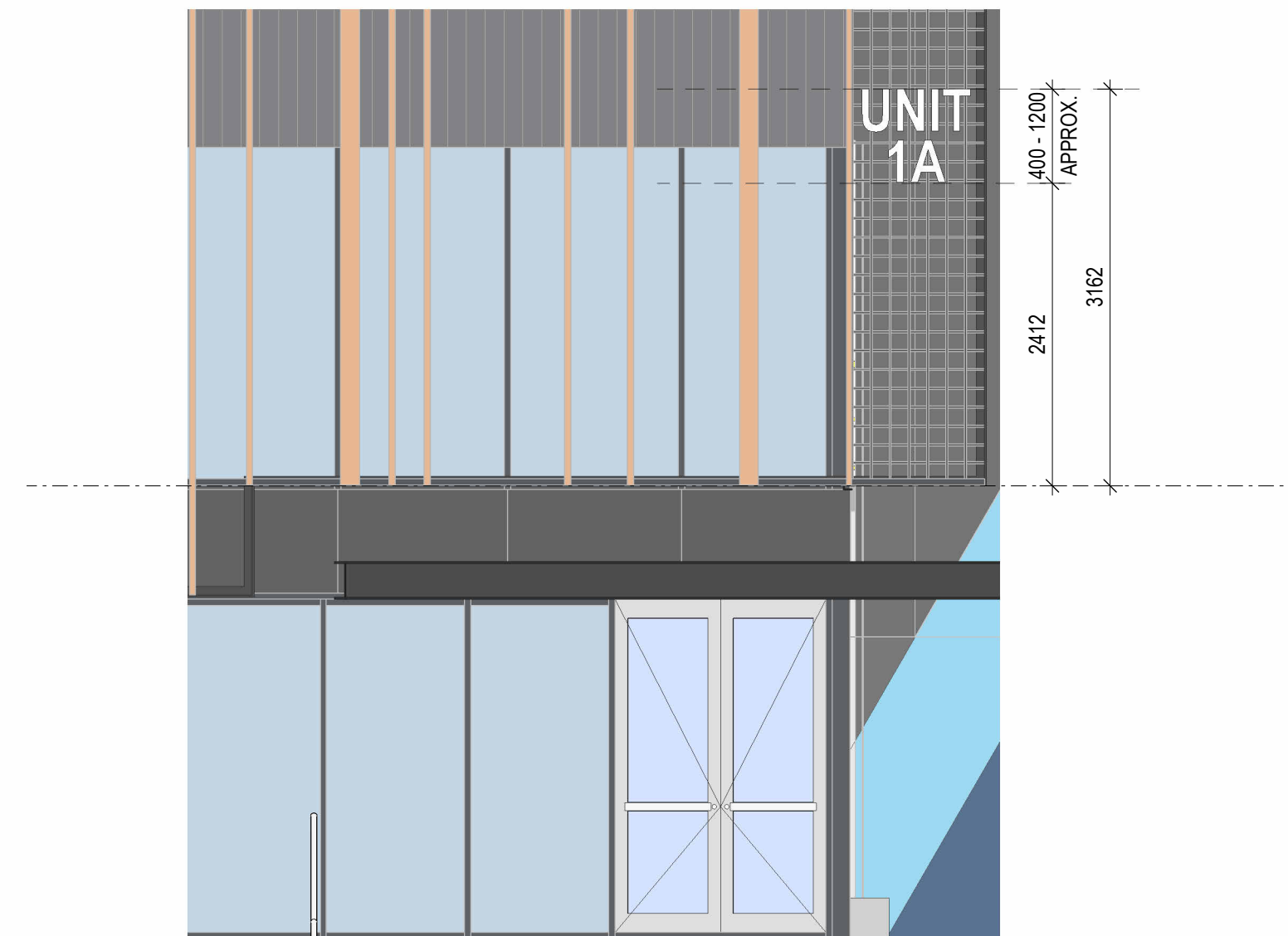
SIGNAGE DETAIL - TENANT LOGO

IDENTIFICATION SIGN
TYPE No. 9
Office Code Identification

- > MOUNTED
- > SINGLE-SIDED
- > NON-ILLUMINATED



3D SIGNAGE - OFFICE NUMBER



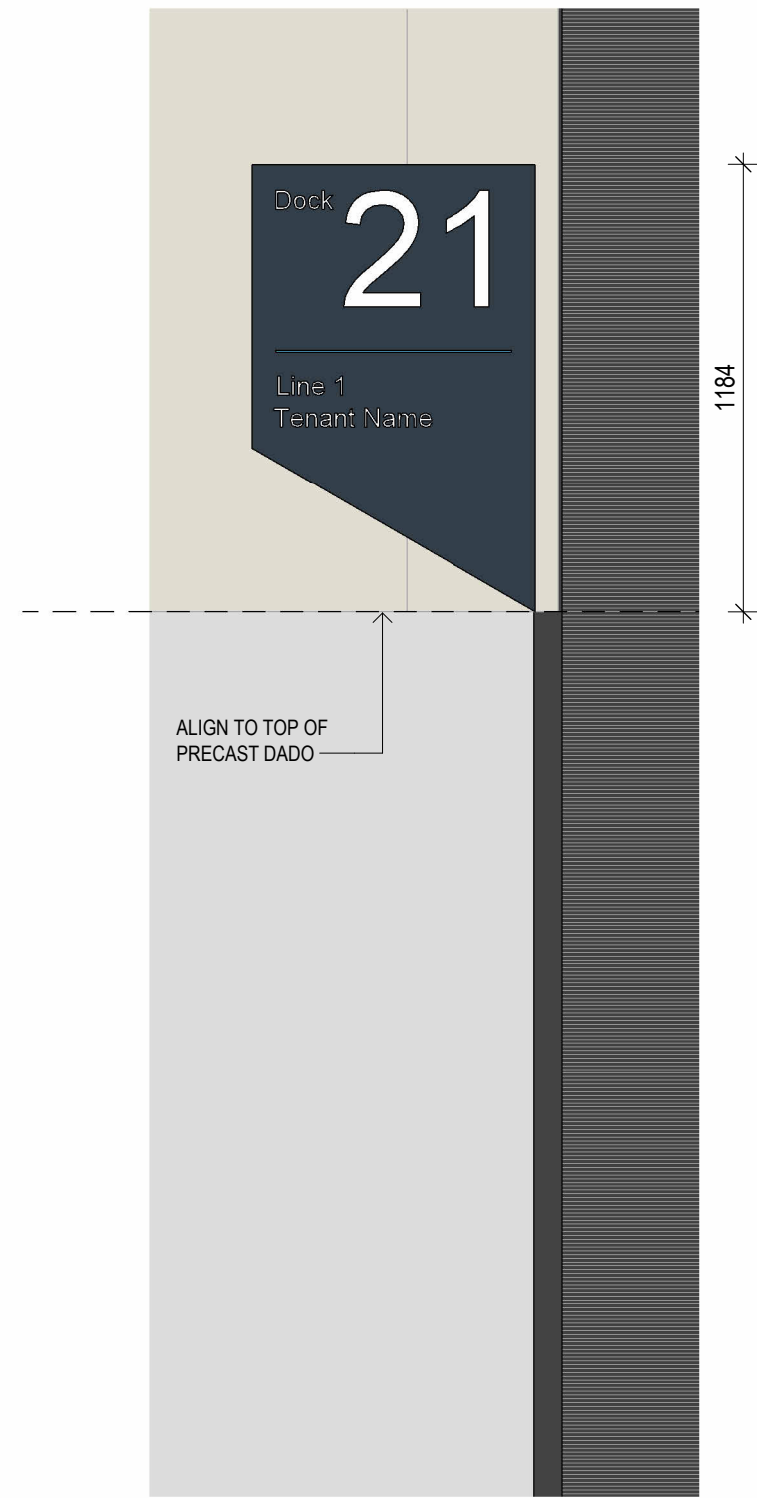
9

SIGNAGE DETAIL - OFFICE

IDENTIFICATION SIGN
TYPE No. 5b
Loading Dock Identification

ESR Signage Guidelines Ref: ID6L-W (Left-handed)

- > WALL MOUNTED
- > SINGLE-SIDED
- > NON-ILLUMINATED



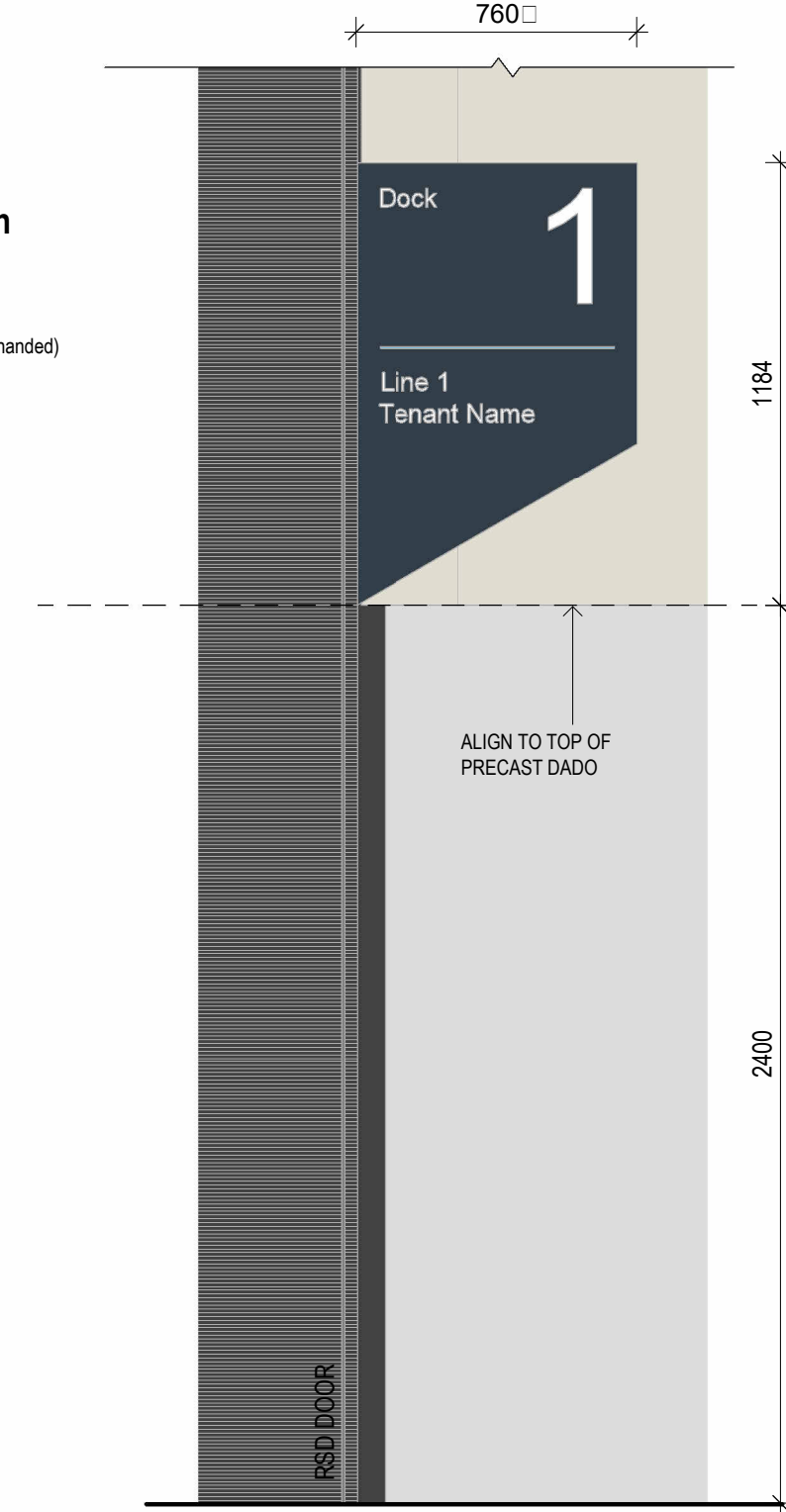
5b

SIGNAGE DETAIL - DOCK NUMBER (LEFT-HANDED)

IDENTIFICATION SIGN
TYPE No. 5a
Loading Dock Identification

ESR Signage Guidelines Ref: ID12BR-W (Right-handed)

- > WALL MOUNTED
- > SINGLE-SIDED
- > NON-ILLUMINATED



5a

SIGNAGE DETAIL - DOCK NUMBER (RIGHT-HANDED)

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SBA
ARCHITECTS

Commercial Industrial Residential Retail Interior design
Phone: 02 9227 9188 Web: www.sbaarch.com.au

C ISSUED FOR DA
B ISSUED FOR DA
A ISSUED FOR DA
P2 DRAFT DA ISSUED FOR REVIEW
P1 ISSUED FOR REVIEW
DESCRIPTION

16.05.24
15.03.24
08.12.23
24.11.23
15.08.2023
DATE



ESR MINTO DEVELOPMENT

50-52 AIRDS ROAD, MINTO, NSW

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TITLE
SIGNAGE DETAILS

DATE 16.05.24 SCALE N.T.S. PROJECT NO. 23159 DWG NO. DA501 REVISION C

50-52 AIRDS ROAD, MINTO 2566

Landscape Documentation for Development Application



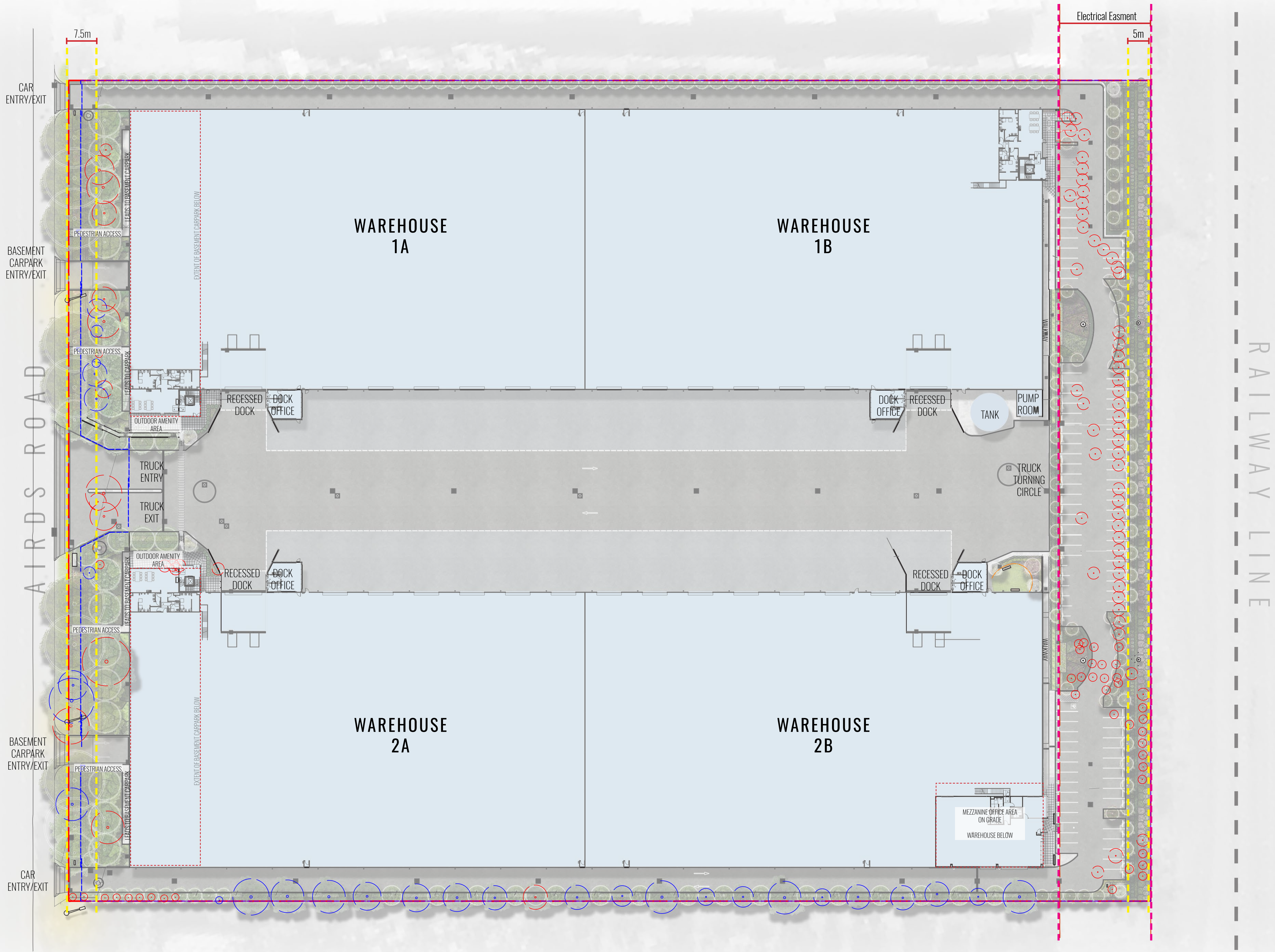
IMAGE TAKEN FROM SIXMAPS 2023

Drawing Register

Dwg No.	Drawing Name
LDA-00	Landscape Cover Page
LDA-01	Landscape Master Plan
LDA-02	Trees Retained / Removed
LDA-03	Landscape Detail Plan - Sheet 1
LDA-04	Landscape Detail Plan - Sheet 2
LDA-05	Landscape Detail Plan - Sheet 3
LDA-06	Landscape Detail Plan - Sheet 4
LDA-07	Landscape Detail Plan - Sheet 5
LDA-08	Landscape Sections AA & BB
LDA-09	Specification Notes & Details
LDA-10	Planting Schedule & Imagery



SITE PLAN



LEGEND

- SITE BOUNDARY
- EXISTING TREE TO BE RETAINED
REFER TO ARBORISTS REPORT
- EXISTING TREE TO BE REMOVED
REFER TO ARBORISTS REPORT
- EXISTING POWER POLE
- PYLON SIGN
- 2.1M H BLACK PALISADE FENCE
- 2.4M H BLACK CHAINWIRE FENCE
- ELECTRICAL EASEMENT
- PROPOSED CONTOURS

Drawing Title:
TREES RETAINED / REMOVED
DWG No:

LDA-02

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ABN 84 620 205 781 ACN 620 205 781

Architect:

SBA
ARCHITECTS

Client:

ESR

Scale:
1:500 @ A1
1:1000 @ A3

Date:
20.06.2024

Job Number:
230403

North:
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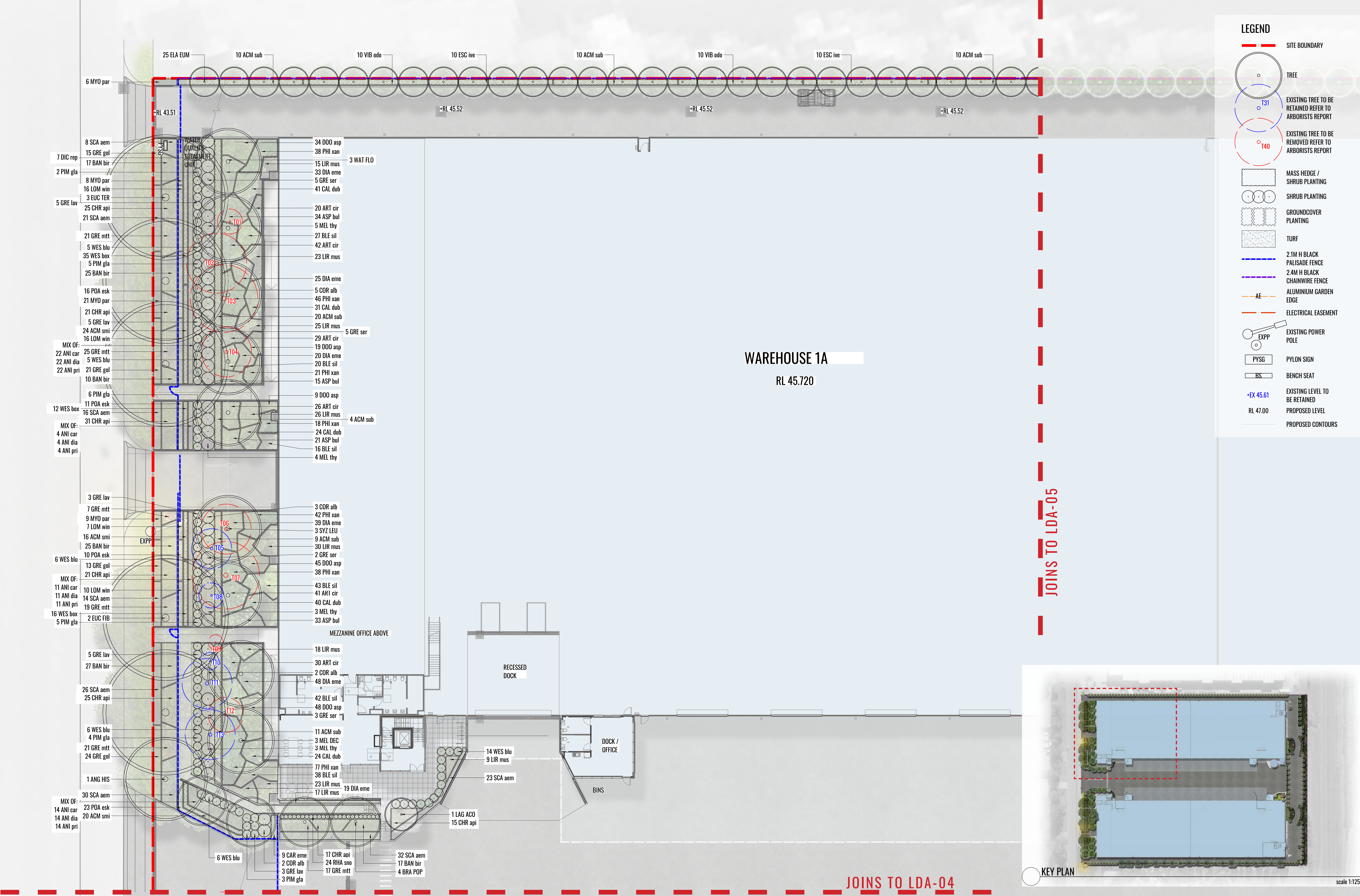
Project:

50-52 Airds Road

MINTO, NSW 2566

Revision			FOR DEVELOPMENT APPLICATION	
Rev	Date	Description	Drawn	Checked
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C	13.12.23	FOR DA	TW	BG
D	18.12.23	FOR DA	TW	BG
E	20.06.24	COUNCIL RFI	TW	BG

NOT FOR CONSTRUCTION



LEGEND

SITE BOUNDARY

TREE

EXISTING TREE TO BE RETAINED REFER TO ARBORISTS REPORT

EXISTING TREE TO BE REMOVED REFER TO ARBORISTS REPORT

MASS HEDGE / SHRUB PLANTING

SHRUB PLANTING

GROUND COVER PLANTING

TURF

2.1M H BLACK PALISADE FENCE

2.4M H BLACK CHAINWIRE FENCE

ALUMINIUM GARDEN EDGE

ELECTRICAL EASEMENT

EXISTING POWER POLE

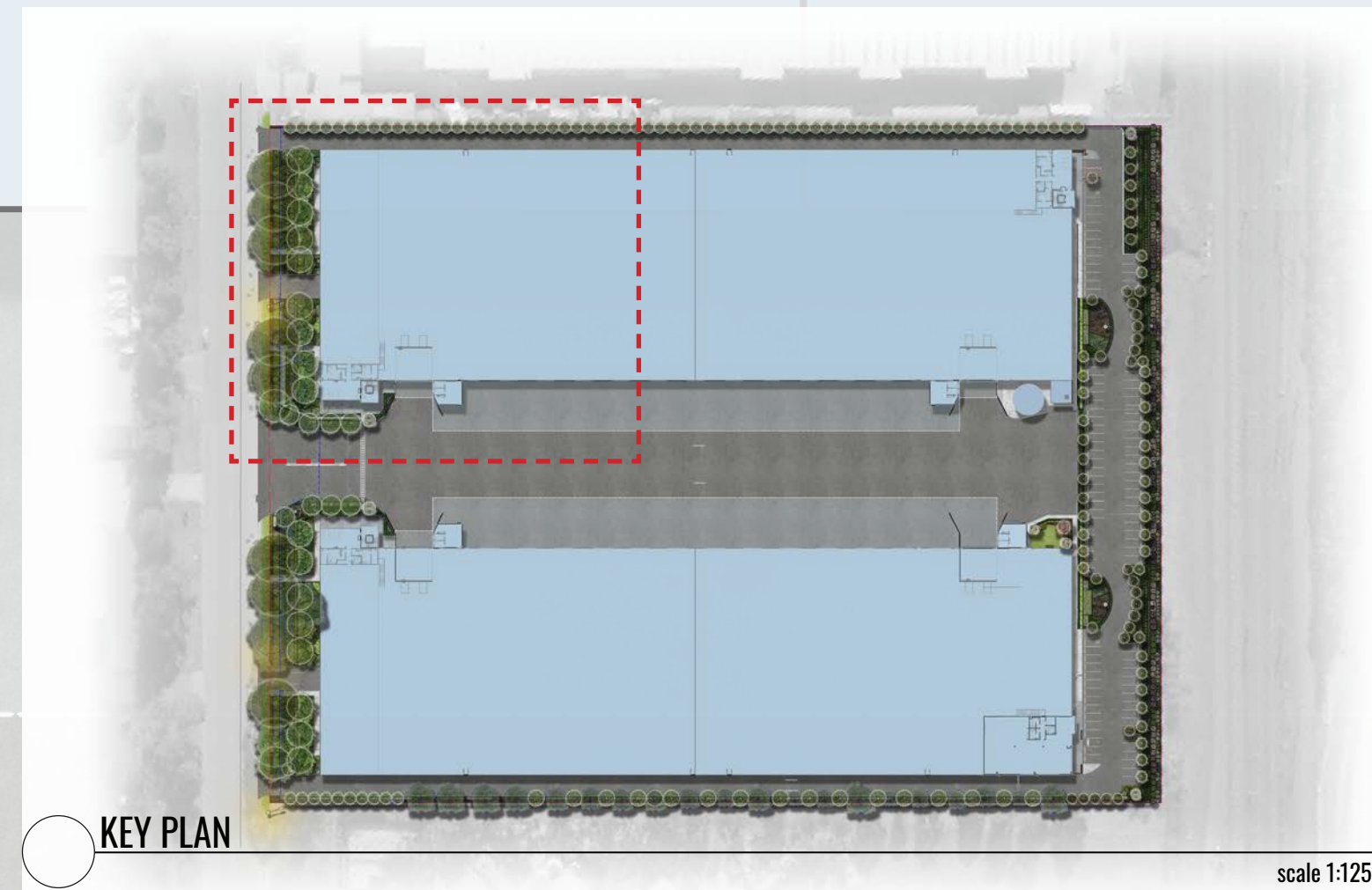
PYLON SIGN

BENCH SEAT

EXISTING LEVEL TO BE RETAINED

PROPOSED LEVEL

PROPOSED CONTOURS



Drawing Title:
LANDSCAPE DETAIL PLAN - SHEET 1
DWG No:
LDA-03

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Architect:

SBA

ARCHITECTS

Client:

ESR

Scale: 1:200 @ A1
1:400 @ A3

Date: 20.06.2024

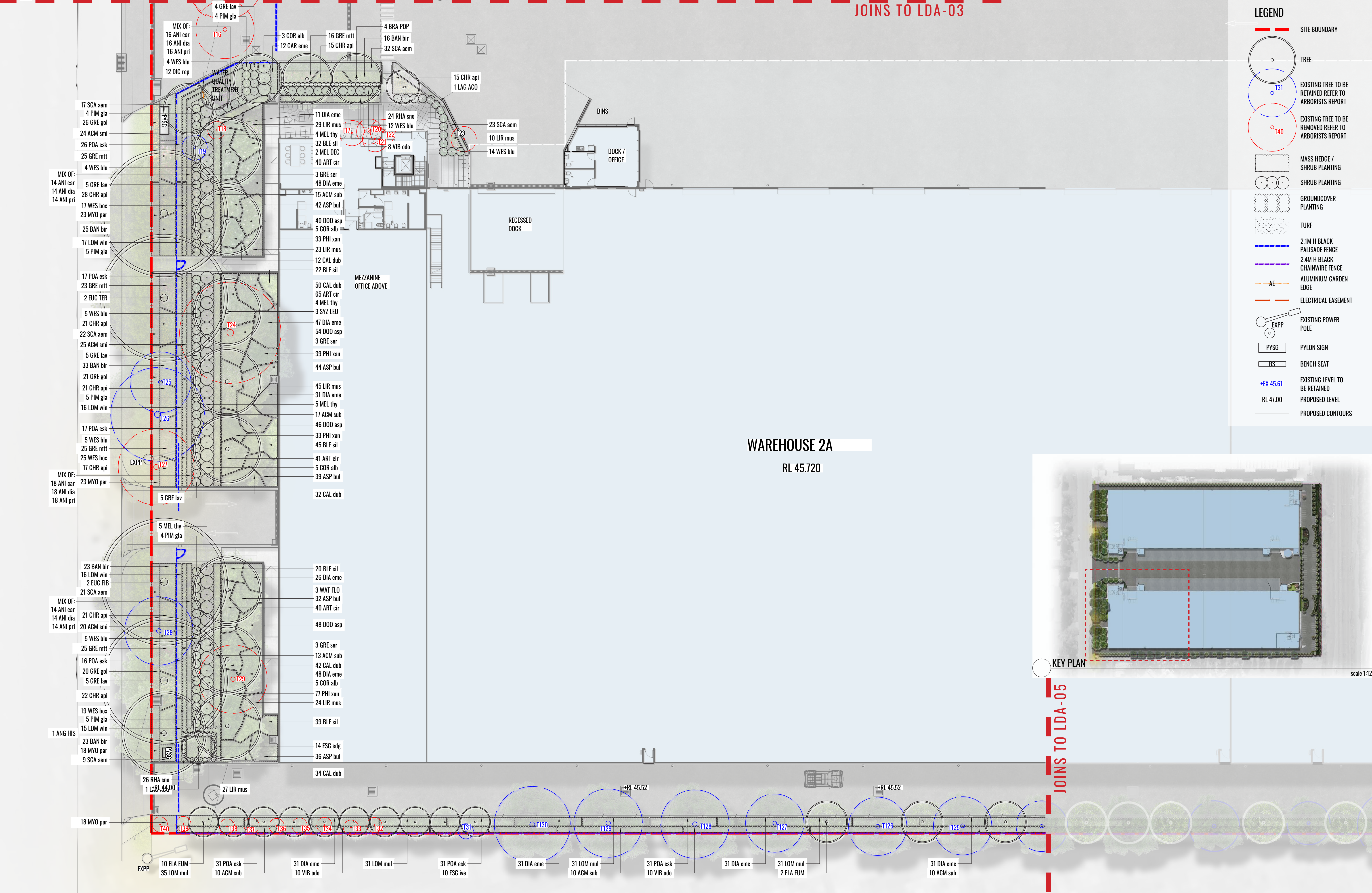
Job Number: 230403

North:

Project: 50-52 Airds Road
MINTO, NSW 2566

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C	13.12.23	FOR DA	TW	BG	
D	18.12.23	FOR DA	TW	BG	
E	20.06.24	COUNCIL RFI	TW	BG	

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Drawing Title:
LANDSCAPE DETAIL PLAN - SHEET 2
DWG No:
LDA-04

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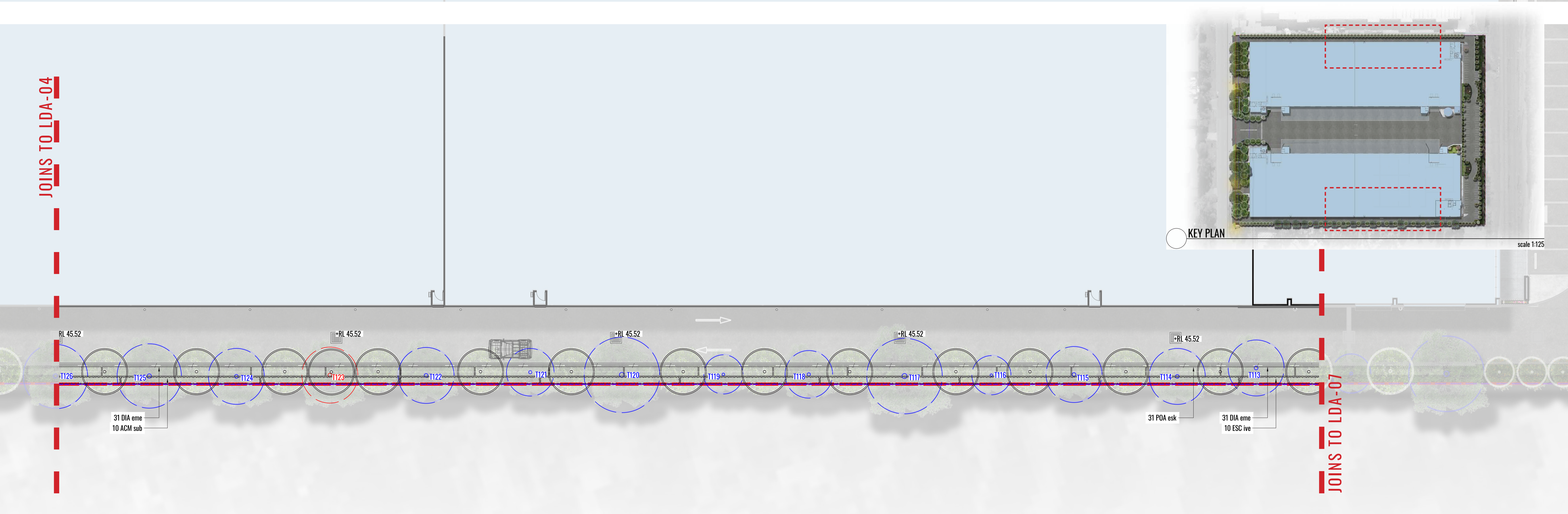
Architect:
SBA
ARCHITECTS

Client:
ESR

Scale:
1:200 @ A1
1:400 @ A3
Date:
20.06.2024
Job Number:
230403
North:
Project:
50-52 Airs Road
MINTO, NSW 2566

Revision					FOR DEVELOPMENT APPLICATION	
Rev	Date	Description	Drawn	Checked		
B	11.12.23	FOR DA	TW	BG		
C	13.12.23	FOR DA	TW	BG		
D	18.12.23	FOR DA	TW	BG		
E	20.06.24	COUNCIL RFI	TW	BG		

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Drawing Title:
LANDSCAPE DETAIL PLAN - SHEET 3
DWG No:
LDA-05

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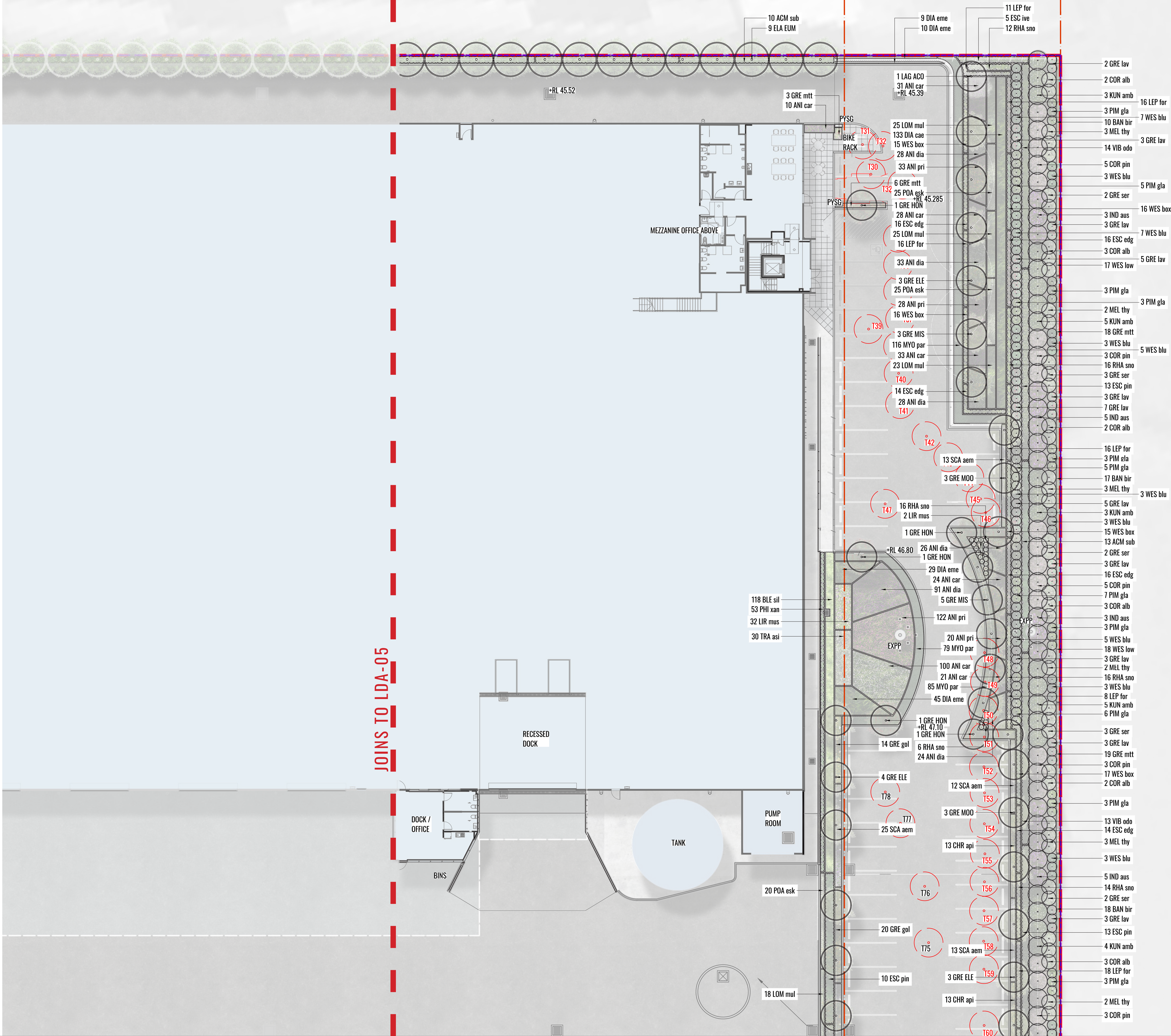
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Date: 20.06.2024
Job Number: 230403
Project: 50-52 Airds Road
MINTO, NSW 2566

North:
↑

Revision		FOR DEVELOPMENT APPLICATION			
Rev	Date	Description	Drawn	Checked	
B	11.12.23	FOR DA	TW	BG	
C	13.12.23	FOR DA	TW	BG	
D	18.12.23	FOR DA	TW	BG	
E	20.06.24	COUNCIL RFI	TW	BG	

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JOINS TO LDA-05

LEGEND

SITE BOUNDARY

TREE

EXISTING TREE TO BE
RETAINED REFER TO
ARBORISTS REPORT

EXISTING TREE TO BE
REMOVED REFER TO
ARBORISTS REPORT

MASS HEDGE /
SHRUB PLANTING

SHRUB PLANTING

GROUNDCOVER
PLANTING

TURF

2.1M H BLACK
PALISADE FENCE

2.4M H BLACK
CHAINWIRE FENCE

ALUMINIUM GARDEN
EDGE

ELECTRICAL EASEMENT

EXISTING POWER
POLE

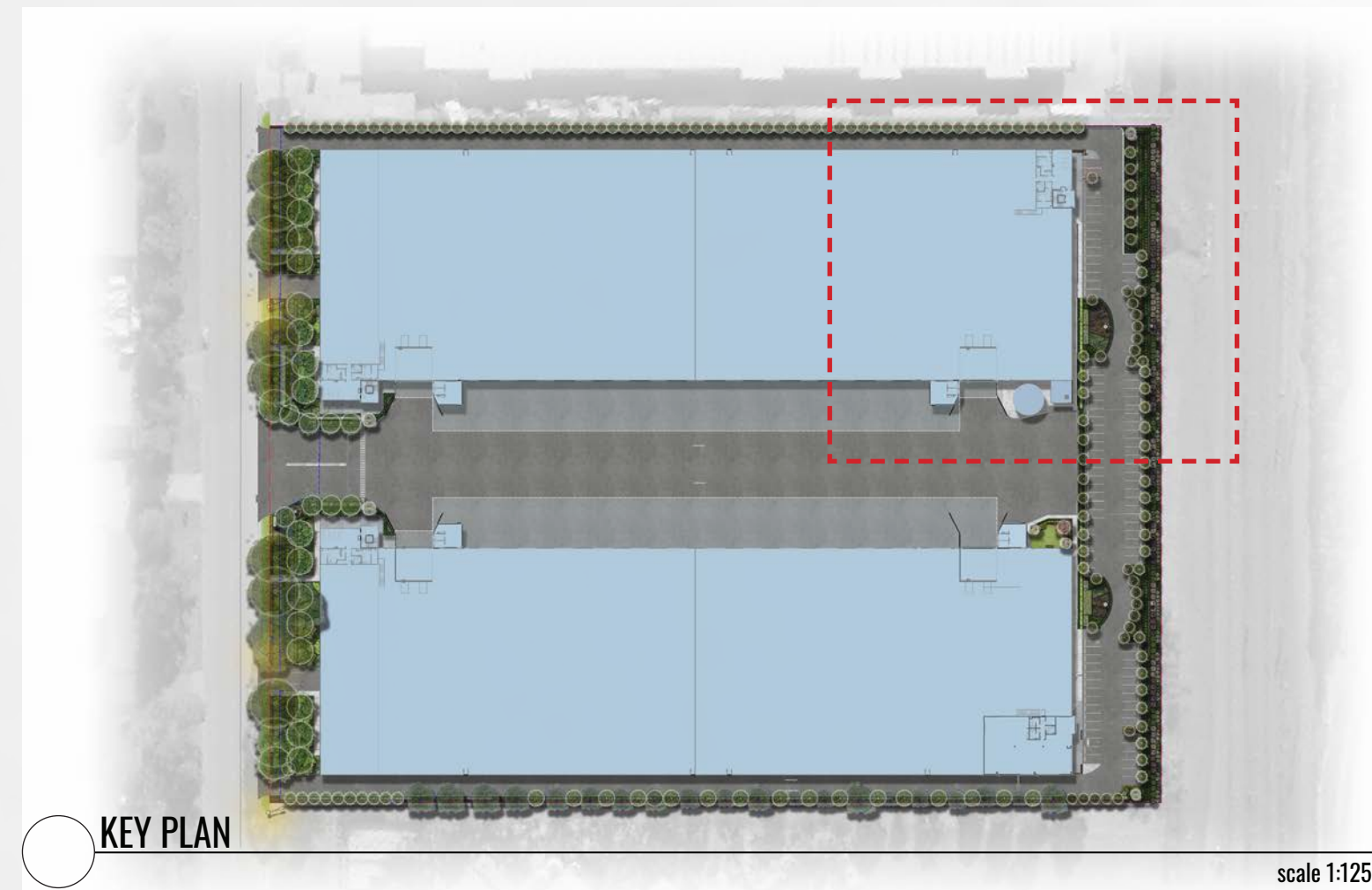
PYLON SIGN

BENCH SEAT

EXISTING LEVEL TO
BE RETAINED

PROPOSED LEVEL

PROPOSED CONTOURS



Drawing Title:
LANDSCAPE DETAIL PLAN - SHEET 4
DWG No:
LDA-06

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Architect:

SBA

ARCHITECTS

Client:

ESR

Scale:
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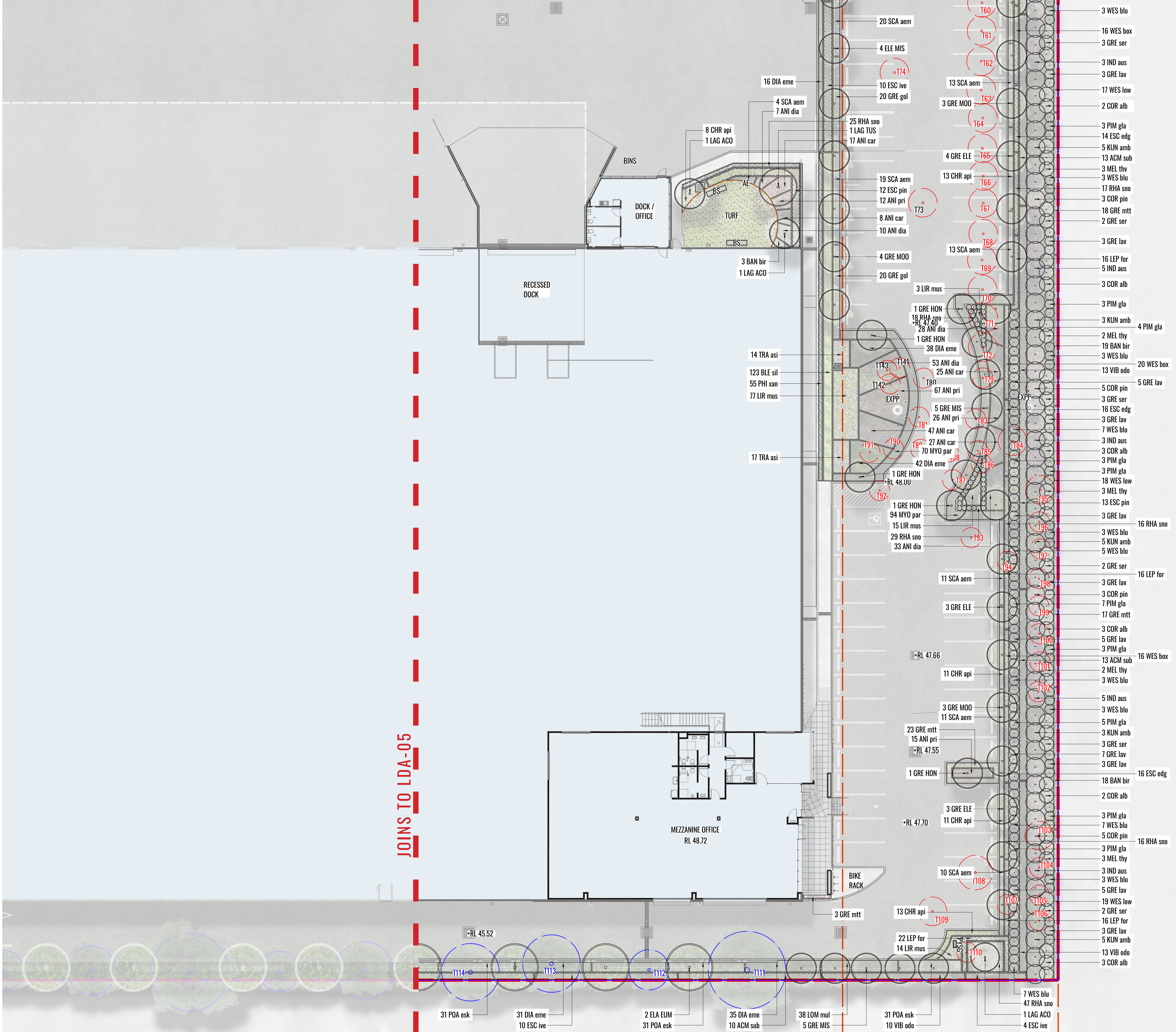
Date:
20.06.2024

Job Number:
230403

Project:
50-52 Airds Road
MINTO, NSW 2566

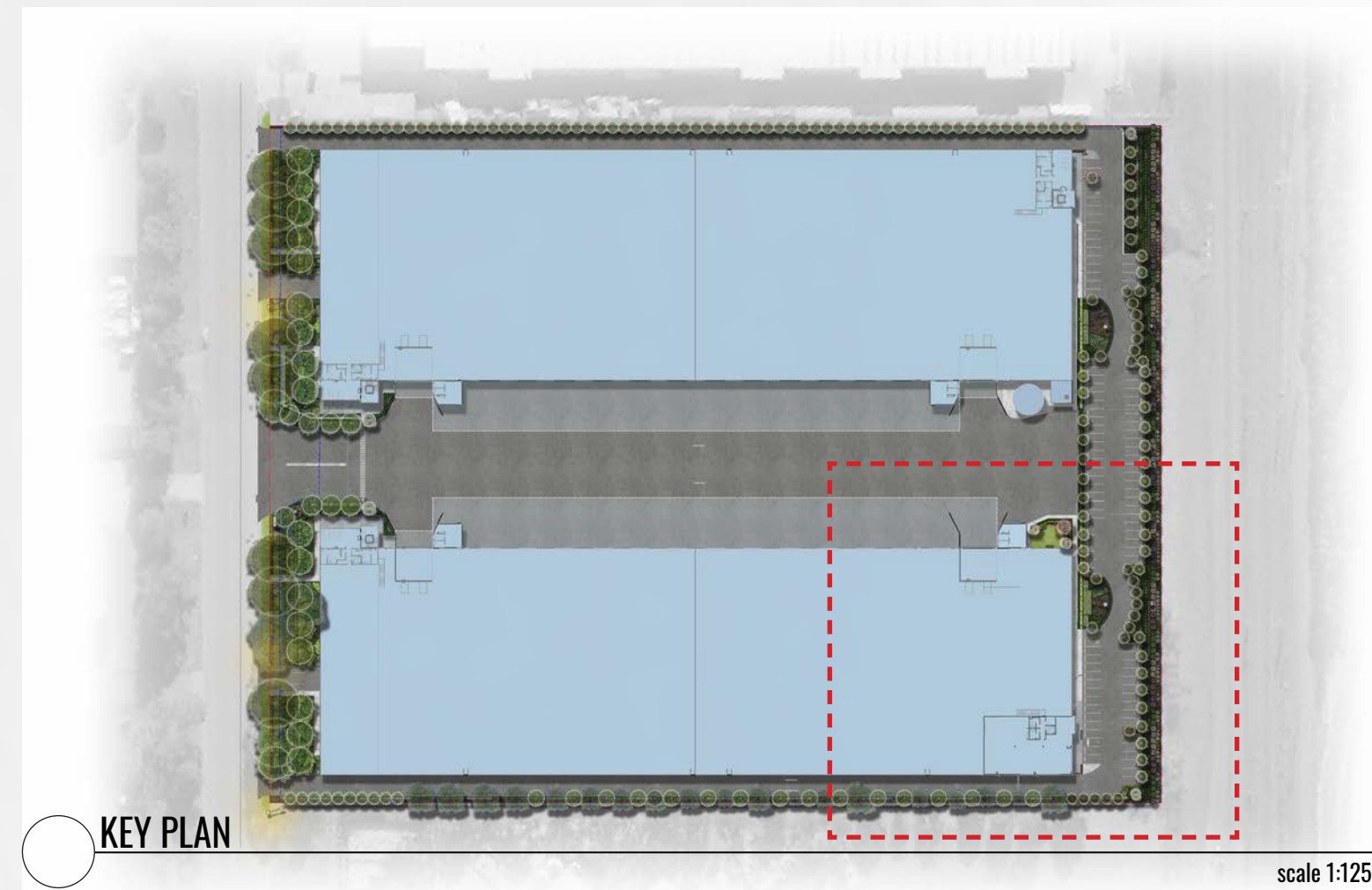
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C	13.12.23	FOR DA	TW	BG	
D	18.12.23	FOR DA	TW	BG	
E	20.06.24	COUNCIL RFI	TW	BG	

NOT FOR CONSTRUCTION



LEGEND

- SITE BOUNDARY
- TREE
- EXISTING TREE TO BE RETAINED REFER TO ARBORISTS REPORT
- EXISTING TREE TO BE REMOVED REFER TO ARBORISTS REPORT
- MASS HEDGE / SHRUB PLANTING
- SHRUB PLANTING
- GROUND COVER PLANTING
- TURF
- 2.1M H BLACK PALISADE FENCE
- 2.4M H BLACK CHAINWIRE FENCE
- ALUMINIUM GARDEN EDGE
- ELECTRICAL EASEMENT
- EXISTING POWER POLE
- PYLON SIGN
- BENCH SEAT
- EXISTING LEVEL TO BE RETAINED
- PROPOSED LEVEL
- PROPOSED CONTOURS



Drawing Title:
LANDSCAPE DETAIL PLAN - SHEET 5
DWG No:
LDA-07

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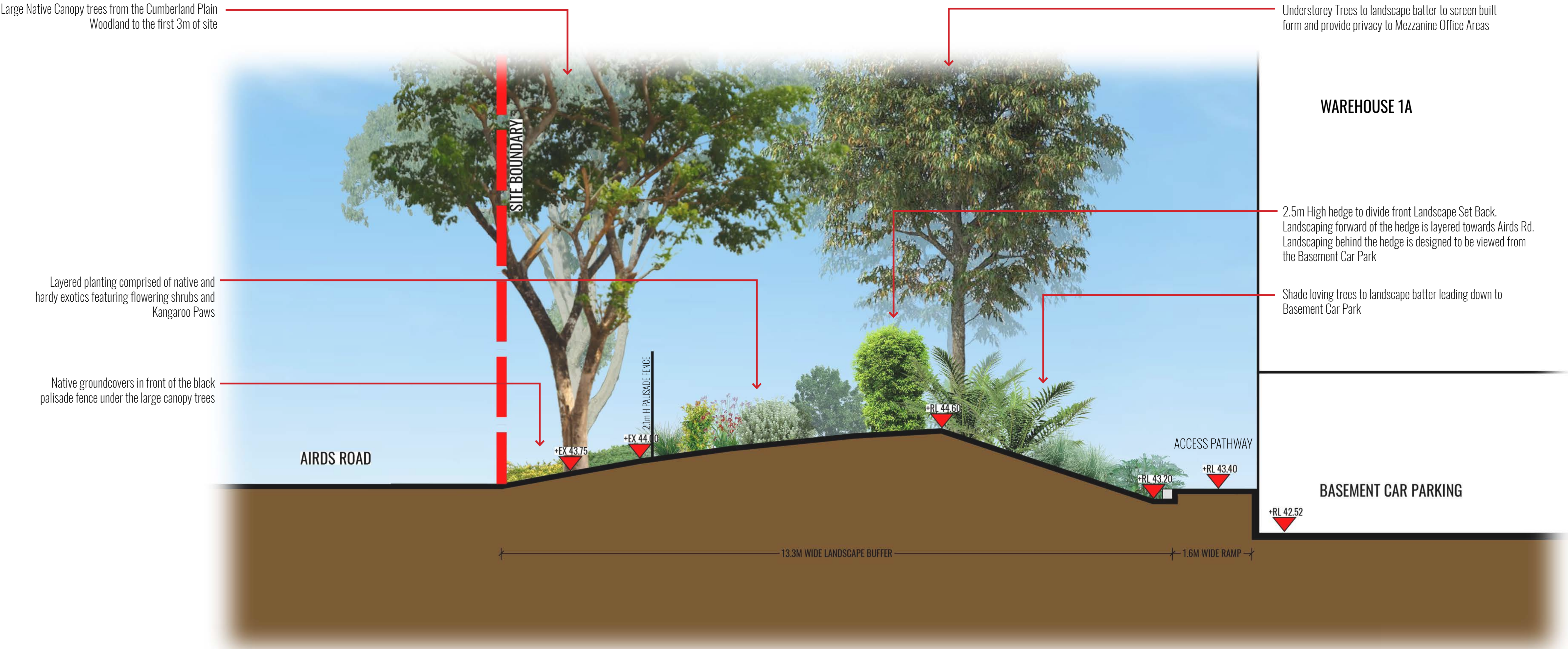
Architect:
SBA
ARCHITECTS

Client:
ESR

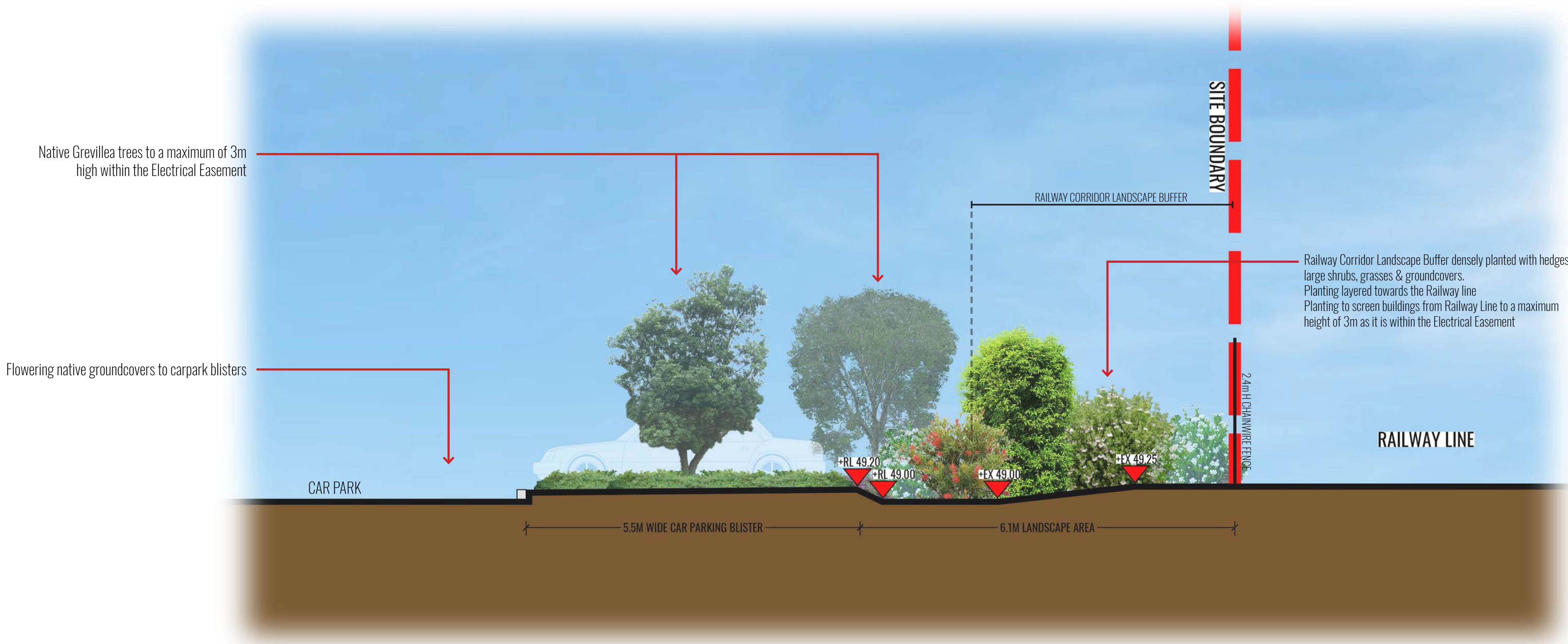
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Date: 20.06.2024
Job Number: 230403
Project: 50-52 Airds Road
MINTO, NSW 2566

Revision		FOR DEVELOPMENT APPLICATION			
Rev	Date	Description	Drawn	Checked	
B	11.12.23	FOR DA	TW	BG	
C	13.12.23	FOR DA	TW	BG	
D	18.12.23	FOR DA	TW	BG	
E	20.06.24	COUNCIL RFI	TW	BG	

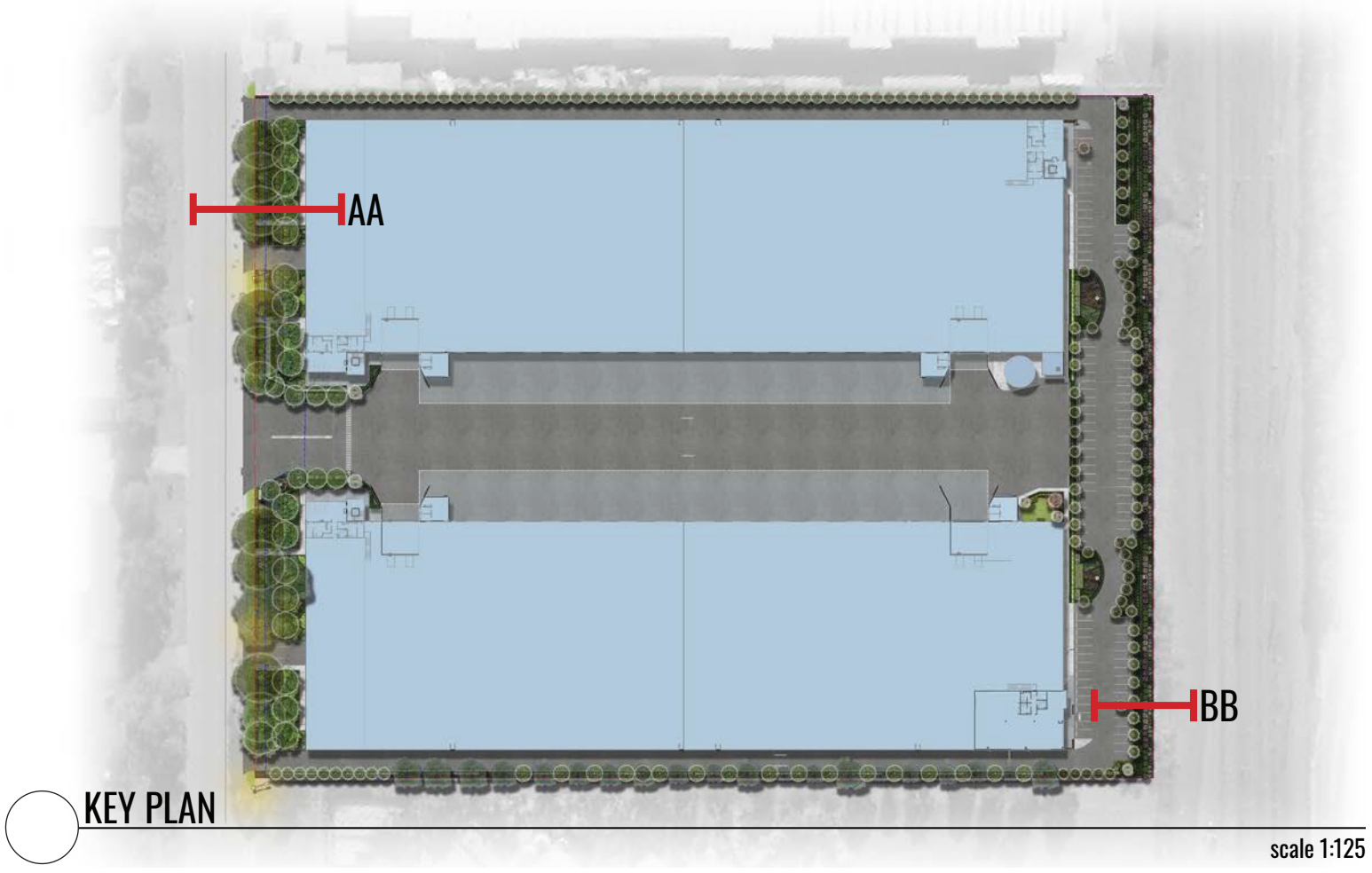
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SECTION AA - AIRDS ROAD LANDSCAPE BUFFER



SECTION BB - RAILWAY LINE LANDSCAPE BUFFER



Drawing Title:
**LANDSCAPE SECTION AA - AIRDS ROAD
LANDSCAPE BUFFER**
DWG No:

LDA-08

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Architect:

SBA
ARCHITECTS

Client:

ESR

Scale:
1:50 @ A1
1:100 @ A3

Date:
20.06.2024

Job Number:
230403

North:
↑

Project:

50-52 Airs Road

MINTO, NSW 2566

Revision			FOR DEVELOPMENT APPLICATION	
Rev	Date	Description	Drawn	Checked
B	11.12.23	FOR DA	TW	BG
C	13.12.23	FOR DA	TW	BG
D	18.12.23	FOR DA	TW	BG
E	20.06.24	COUNCIL RFI	TW	BG

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Maintenance Plan

Maintenance shall mean the care and maintenance of the landscape works by accepted horticultural practice as rectifying any defects that become apparent in the landscape works under normal use. The landscape contractor shall attend the site on a **weekly basis** to maintain the landscape works commencing from practical completion.

Rubbish Removal

The Landscape Contractor shall undertake rubbish removal from the site on a **weekly basis** to ensure the site remains in tidy condition.

Weed Eradication

Weed growth that may occur in grassed, planted or mulched areas is to be removed using environmentally acceptable methods i.e. non-residual glyphosate herbicide (e.g. 'Roundup', applied in accordance with the manufacturer's direction.

Tree Replacement

Trees shall show signs of healthy vigorous growth and be free from disease and not exhibit signs of stress prior to handover to the client. Any trees or plant that die or fail to thrive, or are damaged or stolen will be replaced. Replacement material shall have the initial maintenance period extended in accordance with the landscape contract conditions. Trees and plant materials shall be equal to the minimum requirements of species specified and approved material delivered to site. Should the condition decline from the approved sample the Superintendent reserves the right to reject the tree / plants.
Frequency: as required.

Stakes

Adjust and/or replace stakes and ties where required. Remove staking and guying when instructed by the Superintendent

Pruning

Selective pruning may be required during the establishment period to promote a balanced canopy structure. These activities shall be carried out to the best horticultural and industry practice. All pruned material is to be removed from site.

Mulched Surfaces

All planter beds and garden areas shall have a minimum depth of 75mm organic mulch. All mulch is to be free of deleterious matter such as soil, weeds, sticks and should conform to AS 4454. Mulched surfaces are to be kept clean and tidy and free of any deleterious material and foreign matter. Reinstate depths to a uniform level of 75mm with mulch as specified, mulch to be free of any wood material impregnated with CCA or similar toxic treatment. Top up mulch levels prior to handover to client & estate management.

Watering

Implement an appropriate hand watering regime in areas not irrigated in association with current watering programme to maintain plant health and vigour. The program shall reflect seasonal conditions and plant species.
Frequency: Weekly or as required.

Soil In Natural Ground

Non-Australian native garden beds to have soil installed consisting of 50% existing site topsoil and 50% new topsoil equal or equivalent to 'Organic Garden Mix' as supplied by Australian Native Landscapes. Australian native garden beds to have soil installed consisting of 50% existing site topsoil and 50% new topsoil equal or equivalent to 'Native Low 'P' Mix' as supplied by Australian Native Landscapes. Soil to conform to AS4419 refer to typical detail.

Pest and Disease Control

The Landscape Contractor shall spray for pests and disease infestations when the pest and fungal attack has been positively identified and when their populations have increased to a point that will become detrimental to plant growth. Apply all pesticides to manufacturer's directions.
Frequency: weekly inspection

Fertilising

Generally check for signs of nutrient deficiencies (yellowing of leaves, failure to thrive), and adapt fertiliser regime to suit. Fertiliser should be applied at the beginning and the end of the (summer) growing season.

Irrigation

A sub surface dripper style, electrically automated self timed irrigation system is recommended to be supplied to all garden bed areas and planter container. Regular checks are to be made to ensure continued successful operation. The Landscape Contractor shall be responsible for coordination and engagement of a specialist irrigation designer and installation contractor to design, supply and install an automatic subterranean drip irrigation system to all raised planter beds.
The irrigation system will need to provide designated landscaped areas with enough water for vigorous healthy plant growth. As a general rule landscaped areas will need 20-25mm, species dependant, of water per week. The landscape Contractor will need to monitor natural rainfall using a rain switch in order to set irrigation flow rates accordingly on a monthly basis.

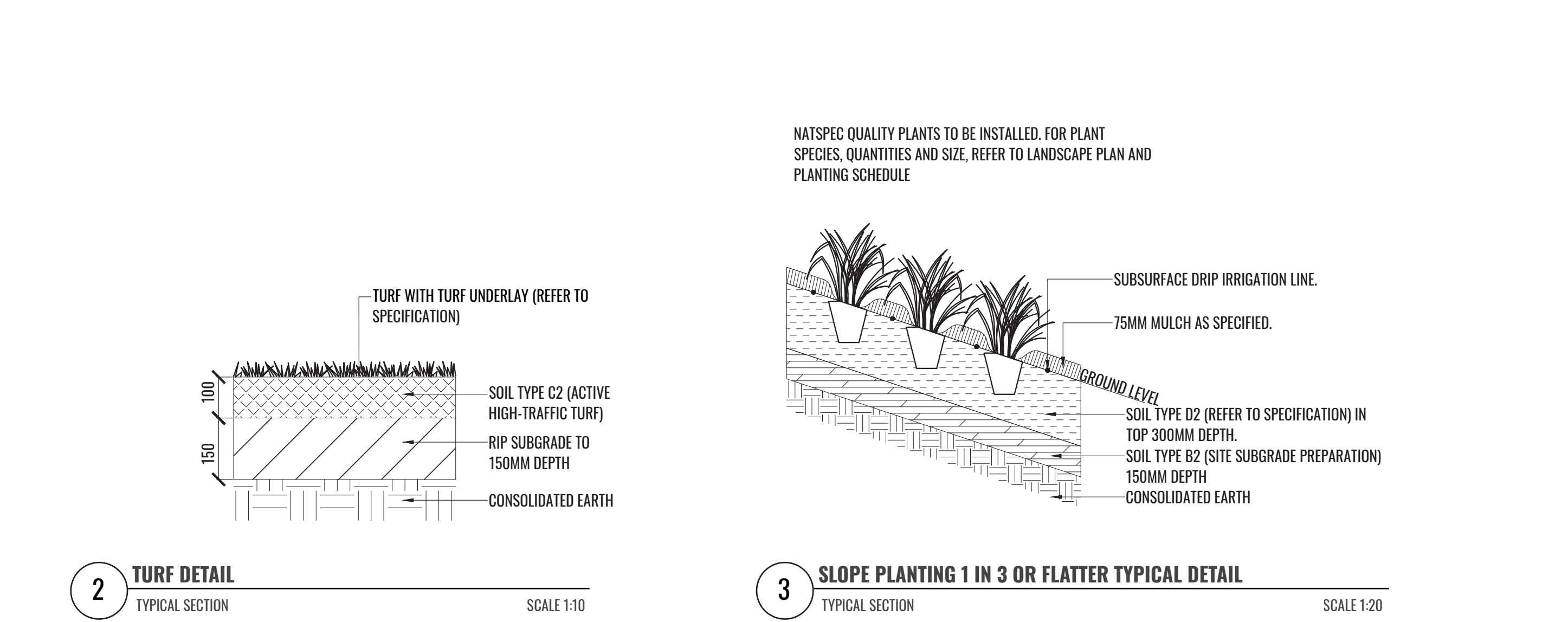
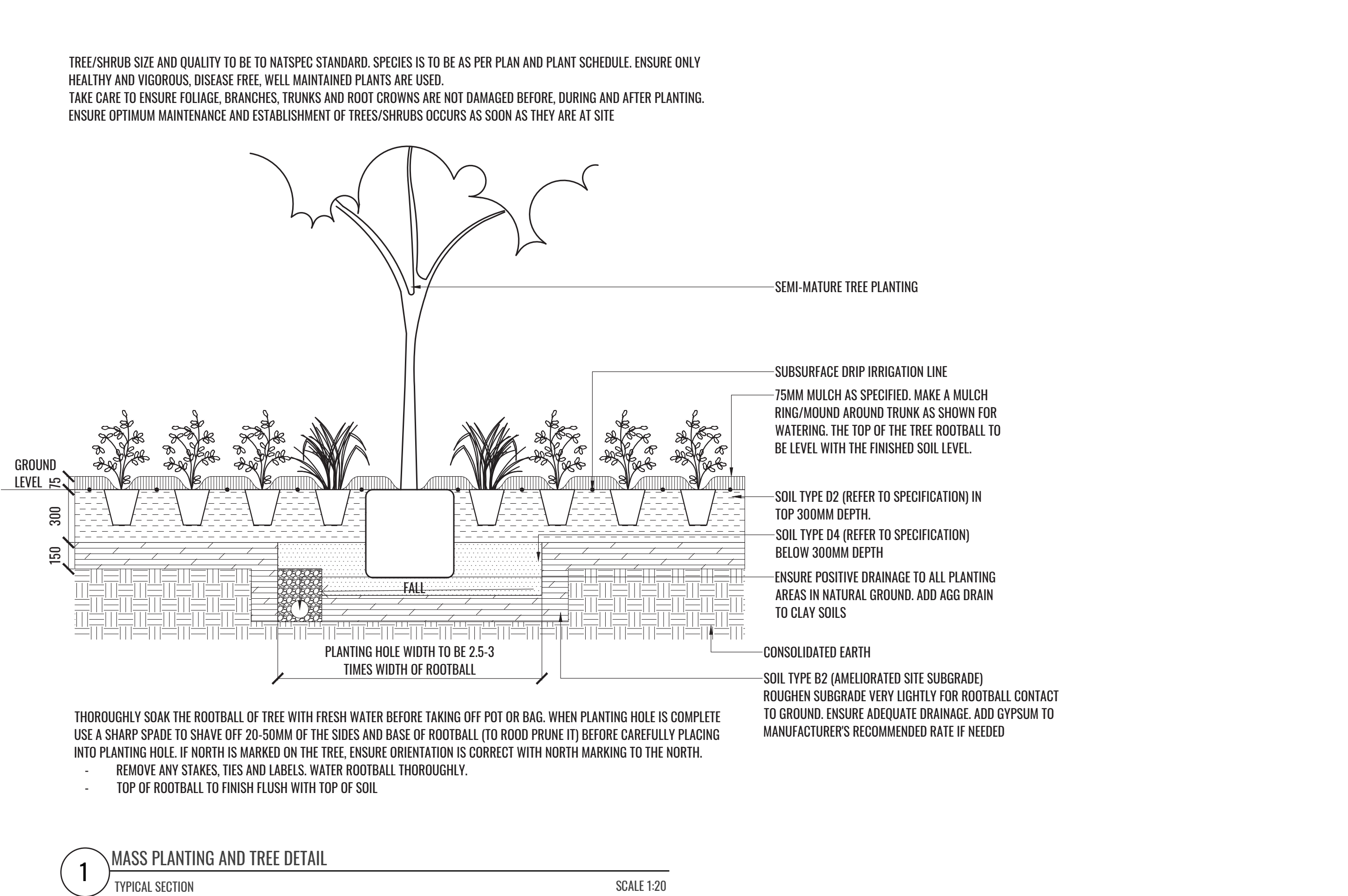
Planter Box

The waterproofing membrane is to be sealed to the drainage outlet and exted vertically to a height of 100mm above the soil or fill level. A protection board should be installed to minimise root damage to the membrane. The internal fall in the planter box should be a minium of 1:100 and a suitable safety overflow should be provided. Externally exposed walls of the planter boxes should be waterproofed to prevent failure of the internal membrane.

Standards

All grown or purchased plant stock must conform to all the conditions and requirements given in NATSPEC Guide: Specifying Trees. Soils to be in accordance with AS4419, mulching composts and conditioners to be in accordance with AS4454. Soils should conform to best practice specifications as listed in the Landscape Soils Handbook (Simon Leake & Elke Haege 2017).

Typical Landscape Details



Drawing Title:

SPECIFICATION NOTES & DETAILS

DWG No:

LDA-09

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As Shown @ A1

Date:

20.06.2024

Job Number:

230403

North:

MINTO, NSW 2566

Revision

Rev

Date

Description

Drawn

Checked

FOR DEVELOPMENT APPLICATION

B

11.12.23

FOR DA

TW

BG

C

13.12.23

FOR DA

TW

BG

D

18.12.23

FOR DA

TW

BG

E

20.06.24

COUNCIL RFI

TW

BG

NOT FOR CONSTRUCTION

PLANTING SCHEDULE

Code	Botanical Name	Common Name	Expected Mature Height	Install Size	Spacing	Quantity	Native	CPW**
TREES								
ANG HIS	Angophora hispida	Dwarf Apple Gum	7m	400L	As Shown	2	✓	
BRA POP	Brachychiton populneus x discolor 'Griffith Pink'	Griffith Pink Brachychiton	5-8m	75L	As Shown	8	✓	
EUC FIB	Eucalyptus fibrosa	Red Ironbark	35m	400L	As Shown	2	✓	✓
EUC TER	Eucalyptus tereticornis	Forest Red Gum	50m	400L	As Shown	5	✓	✓
LAG TUS	Lagerstroemia indica x fauriei 'Tuscarora'	Hot Pink Crepe Myrtle	8m	50L	As Shown	1		
MEL DEC	Melaleuca decora	White Feather Honey Myrtle	12m	100L	As Shown	5	✓	✓
SYZ LEU	Syzygium leuhmannii	Small Leafed Lilly Pilly	10m	100L	As Shown	6	✓	
WAT FLO	Waterhousea floribunda	Weeping Lilly Pilly	10m	100L	As Shown	6	✓	
ELA EUM	Elaeocarpus 'Eumundi'	Native Quandong	8m	50L	As Shown	94	✓	
SMALL TREES								
GRE MIS	Grevillea banksii x sessilis 'Misty Pink'	Misty Pink Grevillea	2-3m	50L	As Shown	18	✓	
GRE HON	Grevillea banksii x pteridifolia 'Honey Gem'	Honey Gem Grevillea	3m*	50L	As Shown	10	✓	
GRE ELE	Grevillea longistyla x johnsonii 'Elegance'	Elegance Grevillea	3m*	50L	As Shown	20	✓	
GRE MOO	Grevillea 'Moonlight'	Moonlight Grevillea	3m*	50L	As Shown	16	✓	
LAG ACO	Lagerstroemia indica 'Acoma'	Dwarf White Crepe Myrtle	3m*	50L	As Shown	7		
SHRUBS								
ACM smi	Acmena smithii 'Allyn Magic'	Allyns Magic Lilly Pilly	0.5m	200mm	500mm Ctrs	129	✓	
ACM sub	Acmena smithii 'DOW30'	Sublime Creek lilly Pilly	2.5m*	200mm	1500mm Ctrs	228	✓	
ART cir	Arthropodium cirratum	New Zealand Rock Lily	0.6m	200mm	4/m2	374		
CAR eme	Carissa macrocarpa 'Emerald Star'	Emerald Star Natal Plum	0.5m	200mm	4/m2	21		
COR alb	Correa alba	White Correa	1.5m	200mm	As Shown	61	✓	
COR pin	Correa alba 'COR10'	Coastal Pink Correa	2m	200mm	As Shown	35	✓	
ESC edg	Escallonia 'Hodge with an Edge'	White Hodge with an Edge	0.5m*	200mm	500mm Ctrs	136		
ESC pin	Escallonia laevis 'Pink Elle'	Pink Elle Escallonia	2.5m	200mm	1500mm Ctrs	61		
ESC ive	Escallonia bifida x Escallonia exoniensis	Escallonia Iveyi	2.5m*	200mm	1500mm Ctrs	119		
GRE lav	Grevillea lavandulacea	Lavender Grevillea	1m	200mm	As Shown	128	✓	
GRE ser	Grevillea sericea	Silky Grevillea	1.5m	200mm	As Shown	51	✓	
IND aus	Indigofera australis	Australian Indigo	2.5m	200mm	As Shown	35	✓	✓
KUN amb	Kunzea ambigua	Tick Bush	1-5m	200mm	As Shown	41	✓	
LEP for	Leptospermum laevigatum 'Tore Shore'	Foreshore Tea tree	0.5m*	200mm	500mm Ctrs	155	✓	
MEL thy	Melaleuca thymifolia	Honey Myrtle	1.5m	200mm	As Shown	61	✓	
PHI xan	Philodendron selloum 'Xanadu'	Xanadu Philodendron	0.6m	200mm	4/m2	570		
PIM gla	Pimelea glauca	Smooth Rice-Flower	1m	200mm	As Shown	131	✓	✓
RHA sno	Rhaploipeis indica 'Snow Maiden'	Snow Maiden Indian Hawthorn	0.5m*	200mm	As Shown OR 4/m2	322		
VIB odo	Viburnum odoratissimum 'VOC1'	Dense Fence Viburnum	2.5m*	200mm	1500mm Ctrs	171		
WES blu	Westringia 'WES03'	Blue Gem Westringia	1m	200mm	As Shown	180	✓	
WES box	Westringia 'WES08'	Aussie Box Westringia	0.5m*	200mm	500mm Ctrs	255	✓	
GRASSES AND GROUNDCOVERS								
ANI car	Anigozanthos 'KPCARN'	Carnivale Kangaroo Paw	0.5m	140mm	4/m2	484	✓	
ANI dia	Anigozanthos 'Rambo diam'	Bush Diamond Kangaroo Paw	0.6m	140mm	4/m2	474	✓	
ANI pri	Anigozanthos 'Rambo coss'	Bush Princess Kangaroo Paw	0.7m	140mm	4/m2	436	✓	
ASP bul	Asplenium bulbiferum	Hen and Chicken Fern	0.6m	140mm	4/m2	296	✓	
BAN bir	Banksia spinulosa 'Birthday Candles'	Birthday Candles Banksia	0.4m	140mm	3/m2	326	✓	
BLE sil	Blechnum gibbum 'Silver Lady'	Silver Lady Fern	1.25m	140mm	4/m2	585		
CAL dub	Calochlaena dubia	Rainbow Fern	0.6m	140mm	4/m2	330		
CHR api	Chryscephalum apiculatum	Yellow Buttons	0.4m	140mm	3/m2	397	✓	
DIA eme	Dianella tasmanica 'DT23'	Emerald Arch Dianella	0.55m	140mm	4/m2	898	✓	
DIC rep	Dichondra repens	Kidney Weed	0.15mm	140mm	4/m2	19	✓	
DOO asp	Doodia aspera	Prickly Rasp Fern	0.35m	140mm	4/m2	343	✓	
GRE gol	Grevillea juniperina 'Gold Cluster'	Prickly Spider Flower	0.3m	140mm	3/m2	214	✓	
GRE mtt	Grevillea lanigera 'Mt Tamboritha'	Mt Tamboritha	0.3m	140mm	3/m2	331	✓	
LIR mus	Liriope muscari 'Evergreen Giant'	Evergreen Giant Liriope	0.6m	140mm	4/m2	487		
LOM mul	Lomanandra multiflora subsp. multiflora	Many-Flowered Mat-Rush	0.5m	140mm	4/m2	443	✓	✓
LOM win	Lomandra confertifolia 'SIRS'	Wingarra Lomandra	0.3m	140mm	4/m2	113	✓	
MYO par	Myoporum parvifolium 'PARV01'	Yareena Myoporum	0.1m	140mm	3/m2	570	✓	
POA esk	Poa labillardieri 'Eskdale'	Eskdale Tussock Grass	0.6m	140mm	4/m2	547	✓	
SCA aem	Scaevola aemula 'Purple Fanfare'	Fan Flower	0.3m	140mm	3/m2	471	✓	
TRA asi	Trachelospermum asiaticum 'FT01'	Flat Mat Star Jasmine	0.4m	140mm	3/m2	61		
WES low	Westringia fruticosa 'WES06'	Low Horizon Native Rosemary	0.3m	140mm	3/m2	89	✓	
Total number of plants						11378	8133	621
Percentage of total plant numbers							71%	5%

Final numbers to be confirmed at Construction Certificate stage

** Cumberland Plain Woodland

PLANT IMAGES



Drawing Title:
PLANTING SCHEDULE & IMAGERY
DWG No:
LDA-10

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Scale: Date: Job Number: North:
20.06.2024 230403

Project: 50-52 Airds Road MINTO, NSW 2566

Revision		FOR DEVELOPMENT APPLICATION		
Rev	Date	Description	Drawn	Checked
B	11.12.23	FOR DA	TW	BG
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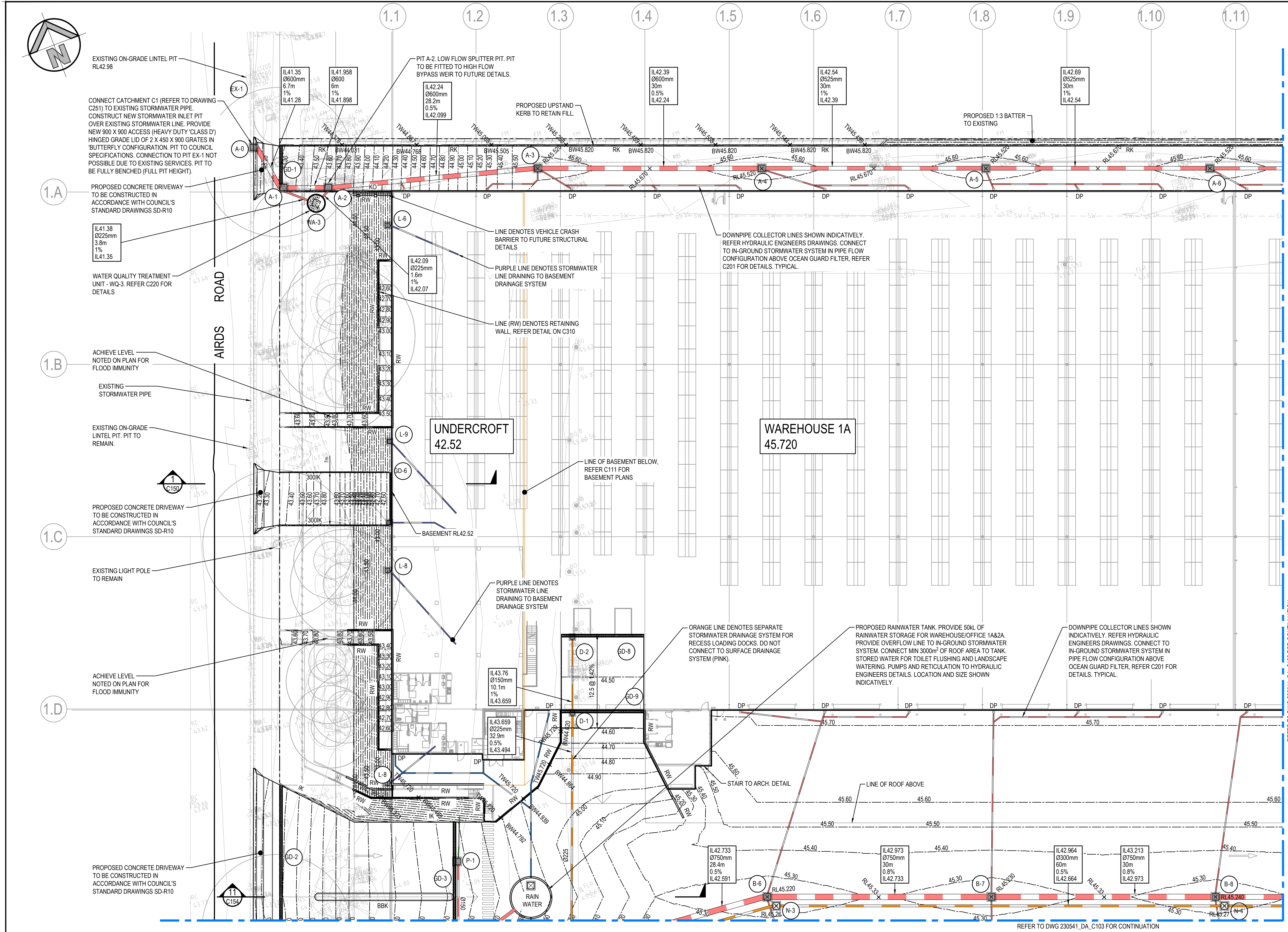
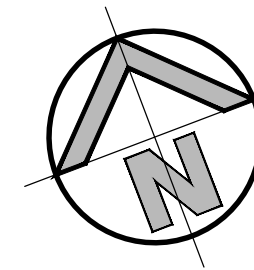
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DRAWING SCHEDULE	
230541_DA_C000	COVER SHEET, DRAWING SCHEDULE, NOTES AND LOCALITY SKETCH
230541_DA_C010	NOTES
230541_DA_C100	GENERAL ARRANGEMENT PLAN
230541_DA_C101	DETAIL PLAN - SHEET 1 OF 4
230541_DA_C102	DETAIL PLAN - SHEET 2 OF 4
230541_DA_C103	DETAIL PLAN - SHEET 3 OF 4
230541_DA_C104	DETAIL PLAN - SHEET 4 OF 4
230541_DA_C110	BASEMENT GENERAL ARRANGEMENT PLAN
230541_DA_C111	DETAIL PLAN - SHEET 1 OF 2
230541_DA_C112	DETAIL PLAN - SHEET 2 OF 2
230541_DA_C150	SITE SECTIONS - SHEET 1 OF 8
230541_DA_C151	SITE SECTIONS - SHEET 2 OF 8
230541_DA_C152	SITE SECTIONS - SHEET 3 OF 8
230541_DA_C153	SITE SECTIONS- SHEET 4 OF 8
230541_DA_C154	SITE SECTIONS - SHEET 5 OF 8
230541_DA_C155	SITE SECTIONS - SHEET 6 OF 8
230541_DA_C156	SITE SECTIONS - ELECTRICAL EASEMENT - SHEET 6 OF 8
230541_DA_C157	SITE SECTIONS - ELECTRICAL EASEMENT - SHEET 7 OF 8
230541_DA_C160	KERB DETAILS
230541_DA_C200	STORMWATER MISCELLANEOUS DETAILS AND PIT LID SCHEDULE
230541_DA_C201	STORMWATER MISCELLANEOUS DETAILS
230541_DA_C202	PUMP OUT PIT DETAIL
230541_DA_C220	STORMFILTER CHAMBER PLAN, SECTIONS AND DETAILS
230541_DA_C250	PRE-DEVELOPMENT CATCHMENT PLAN
230541_DA_C251	POST-DEVELOPMENT CATCHMENT PLAN
230541_DA_C310	RETAINING WALL DETAILS - EXTERNAL WORKS
230541_DA_SE01	SEDIMENT AND EROSION CONTROL PLAN
230541_DA_SE02	SEDIMENT AND EROSION CONTROL DETAILS
230541_DA_BE01	BULK EARTHWORKS CUT AND FILL PLAN
230541_DA_BE02	BULK EARTHWORKS CUT AND FILL DETAILS

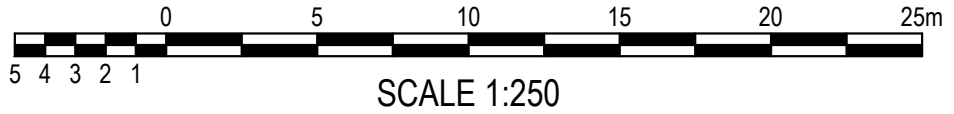
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REFER TO DWG 230541_DA_C102 FOR CONTINUATION

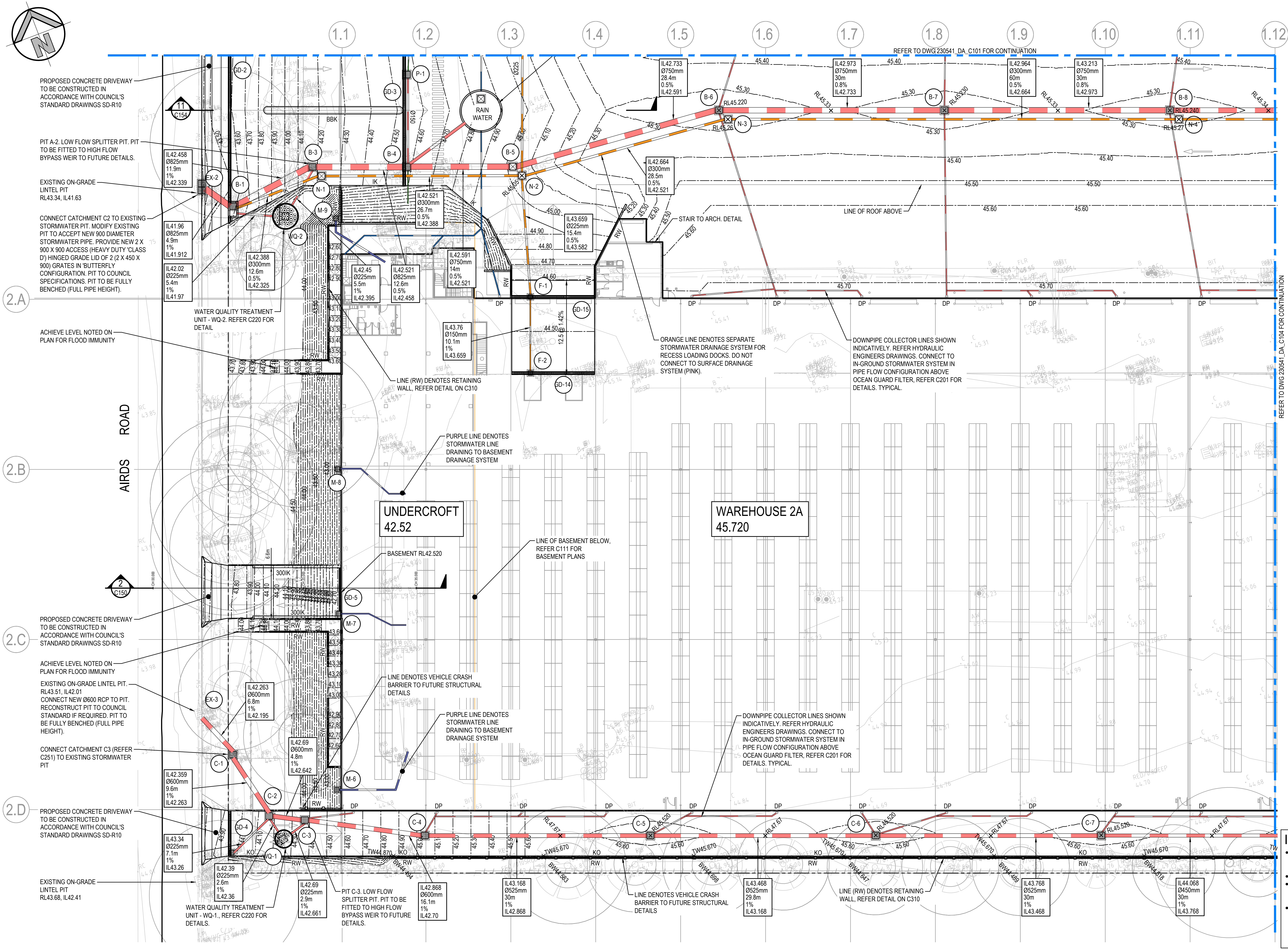
- IMPORTANT NOTES:**
- TW & BW DENOTE THE SURFACE LEVEL AT THE TOP AND BOTTOM OF RETAINING LEVEL NOT THE TOP OF WALL LEVEL. REFER TO PROJECT ARCHITECT FOR TOP OF WALL LEVELS AND RETAINING WALL SETOUT.
 - PIT LOCATIONS SUBJECT TO FINAL COORDINATION.
 - RW SUBSOILS, SUBSOIL LINES BEHIND KERBS AND SUBSOIL LINES FOR VEGETATED SWALE DRAINS NOT SHOWN FOR CLARITY, REFER TO DETAILS ON C201.
 - CIVIL ENGINEERING DESIGN DRAWINGS (THESE DRAWINGS) TO BE REVIEWED IN CONJUNCTION WITH HYDRAULIC ENGINEERING DRAWINGS. CIVIL ENGINEERING DRAWINGS DETAIL THE EXTERNAL DRAINAGE ONLY, HYDRAULIC DRAWINGS DETAIL ROOF DRAINAGE, CONNECTION FROM DOWNPIPES TO EXTERNAL PITS AND INTERNAL BUILDING DRAINAGE.



DETAIL PLAN
SCALE: 1:250

FOR DA ONLY

SURVEY INFORMATION SURVEYED BY LANDPARTNERS DATUM: AHD ORIGIN OF LEVELS: PM52452, RL42.876																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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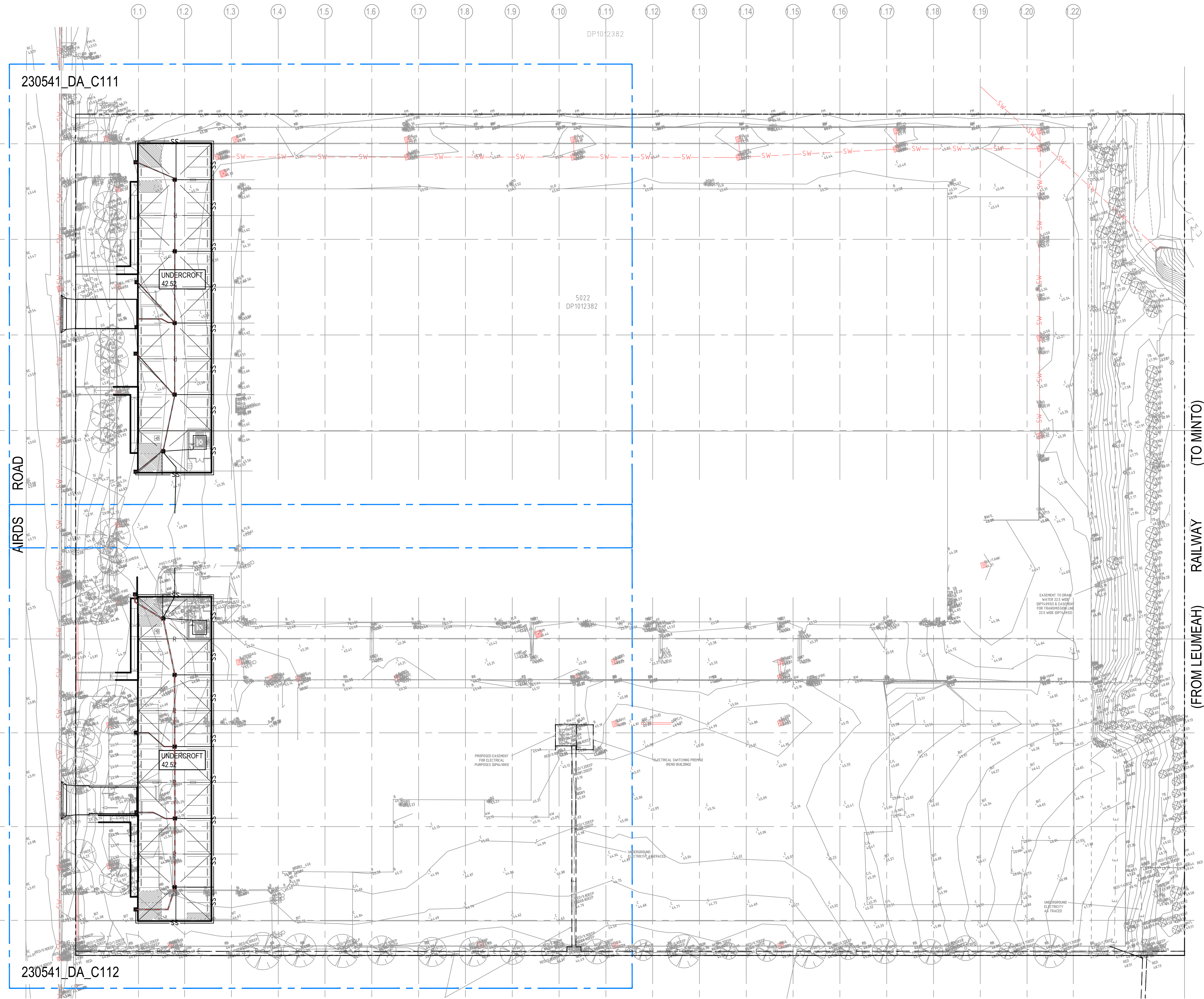
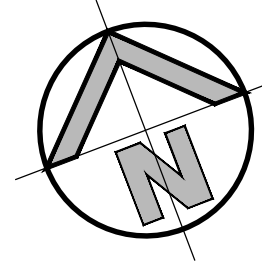
IMPORTANT NOTES:

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- PIT LOCATIONS SUBJECT TO FINAL COORDINATION.
- RW SUBSOILS, SUBSOIL LINES BEHIND KERBS AND SUBSOIL LINES FOR VEGETATED SWALE DRAINS NOT SHOWN FOR CLARITY, REFER TO DETAILS ON C201.
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DETAIL PLAN
SCALE: 1:250

FOR DA ONLY

SURVEY INFORMATION SURVEYED BY LANDPARTNERS DATUM: AHD ORIGIN OF LEVELS: PM52452, RL42.876				Client ESR Architect SBA ARCHITECTS This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				Suite 2.01 828 Pacific Highway Gordon NSW 2072 ESR ESR CONSULTANTS CHAS MARK COPELAND Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hchonsult.com.au Web www.henryandhymas.com.au				Project PROPOSED WAREHOUSE DEVELOPMENT 50-52 AIRDS ROAD, MINTO, NSW Title DETAIL PLAN SHEET 3 OF 4 Drawing number 230541_DA_C103 Revision 05				Drawn M.Pereira Designed L.Villa Original issue date JUNE		Checked L.Villa Approved A.Francis Scale @A1 1:250	
REVISION AMENDMENT				DRAWN DESIGNED DATE REVISION AMENDMENT DRAWN DESIGNED DATE															
05 ISSUED FOR DA ONLY				MB LV 07.06.2024															
04 ISSUED FOR DA ONLY				IK NW 31.01.2024															
03 ISSUED FOR DA ONLY				AFe LV 18.12.2023															
02 ISSUED FOR PRELIMINARY				AFe LV 08.12.2023															
01 ISSUED FOR PRELIMINARY				MP LV 05.12.2023															

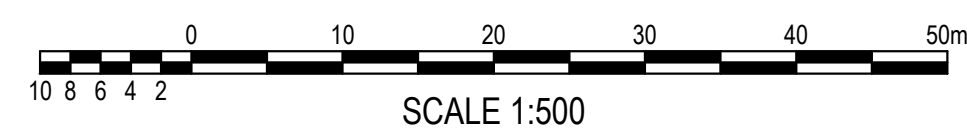


LEGEND

- EXISTING BOUNDARY
- PROPOSED SUBSOIL LINE
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS
- PROPOSED LINTEL ONGRADE & SAG PITS
- EXISTING PITS
- PROPOSED PIT TAG
- STORMWATER UPSTREAM INVERT RL
- STORMWATER PIPE DIAMETER & CLASS
- STORMWATER PIPE LENGTH
- STORMWATER PIPE GRADE
- STORMWATER DOWNSTREAM INVERT RL
- PROPOSED RETAINING WALL
- PROPOSED GRATED DRAIN
- PROPOSED STORMWATER SWALE
- EXISTING STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- LOADING DOCK DRAINAGE SYSTEM
- STORMWATER TANK DRAINAGE SYSTEM
- PROPOSED BATTER LINE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED SPOT LEVEL
- PROPOSED KERB & GUTTER
- PROPOSED KERB ONLY
- PROPOSED EDGE STRIP
- PROPOSED INTEGRAL KERB
- EXISTING ELECTRICAL MAINS LINE
- EXISTING GAS LINE
- EXISTING SEWER LINE
- EXISTING TELSTRA LINES
- EXISTING WATER LINE
- EXISTING STORMWATER PITS
- INTERMEDIATE RISER (IR)
- FLUSHING POINT (FP)
- TEMP SCHOOL LINES
- PROPOSED RIDGE LINE
- PROPOSED VALLEY LINE
- PROPOSED RAINWATER OUTLET
- EXISTING PIT TAG (BY OTHERS)

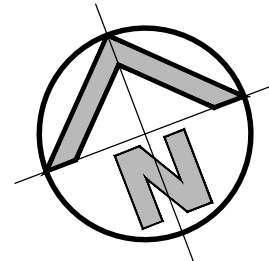
BASEMENT GENERAL ARRANGEMENT PLAN

SCALE: 1:500



FOR DA ONLY

SURVEY INFORMATION SURVEYED BY LANDPARTNERS DATUM: AHD ORIGIN OF LEVELS: PM52452, RL42.876										03 ISSUED FOR DA ONLY AFe LV 07.06.2024 02 ISSUED FOR DA ONLY AFe LV 18.12.2023 01 ISSUED FOR PRELIMINARY AFe LV 08.12.2023										REVISION AMENDMENT DRAWN DESIGNED DATE REVISION AMENDMENT DRAWN DESIGNED DATE										Client ESR Architect SBA ARCHITECTS This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.										Suite 2.01 828 Pacific Highway Gordon NSW 2072 Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhconsult.com.au Web www.henryandhymas.com.au h henry&hymas										Project PROPOSED WAREHOUSE DEVELOPMENT 50-52 AIRDS ROAD, MINTO, NSW Title BASEMENT GENERAL ARRANGEMENT PLAN										Drawn M.Pereira Checked L.Villa Drawing number 230541_DA_C110 Designed A.Villa Approved A.Francis Scale @A1 1:500 Revision 03									
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AIRDS ROAD

REFER C101-C104 FOR PEDESTRIAN
RAMP GRADING AND RETAINING WALLS

REFER C101-C104 FOR
RAMP GRADING

REFER C101-C104 FOR PEDESTRIAN
RAMP GRADING AND RETAINING WALLS

PROVIDE DRAINAGE
BEHIND BUILDING
RETAINING WALL.
CONNECT TO BASEMENT
IN-GROUND SYSTEM.
SPECIFICATION TO
STRUCTURAL ENGINEERS
DETAILS.

CONNECT RETAINING WALL
SUBSOIL TO BASEMENT
IN-GROUND DRAINAGE
SYSTEM AT REGULAR
INTERVALS.

BASEMENT PUMP OUT PIT
IN ACCORDANCE WITH
AS3500. REFER C202 FOR
DETAILS.

CONNECT LIFT PIT SUBSOIL
DRAINAGE TO PUMP OUT
PIT

CONNECT PUMP OUT PIT
TO PIT P-1 WITH RISING
MAIN. RISING MAIN TO
FUTURE DETAILS.

5022
DP1012382

DETAIL PLAN
SCALE: 1:250

REFER TO DWG 230541_DA_C112 FOR CONTINUATION

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FOR DA ONLY

**SURVEY
INFORMATION**
SURVEYED BY LANDPARTNERS
DATUM: AHD
ORIGIN OF LEVELS: PM52452, RL42.876

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR DA ONLY	AFe	LV	07.06.2024					
02	ISSUED FOR DA ONLY	AFe	LV	18.12.2023					
01	ISSUED FOR PRELIMINARY	MP	LV	05.12.2023					

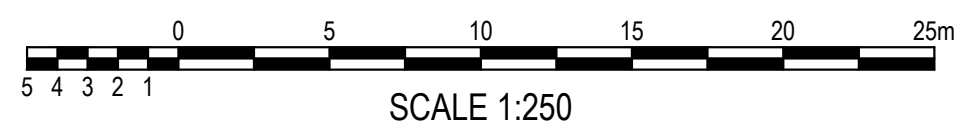
Client
ESR
Architect
SBA ARCHITECTS
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email@hhconsult.com.au
Web
www.henryandhymas.com.au
DRAWING TO BE PRINTED IN COLOUR



Project
**PROPOSED WAREHOUSE DEVELOPMENT
50-52 AIRDS ROAD, MINTO, NSW**
Title
**DETAIL PLAN - BASEMENT WH1
SHEET 1 OF 2**

Drawn M.Pereira	Designed L.Villa	Original issue date JUNE
Checked L.Villa	Approved A.Francis	Scale (B1) 1:250
Drawing number 230541_DA_C111		Revision 03



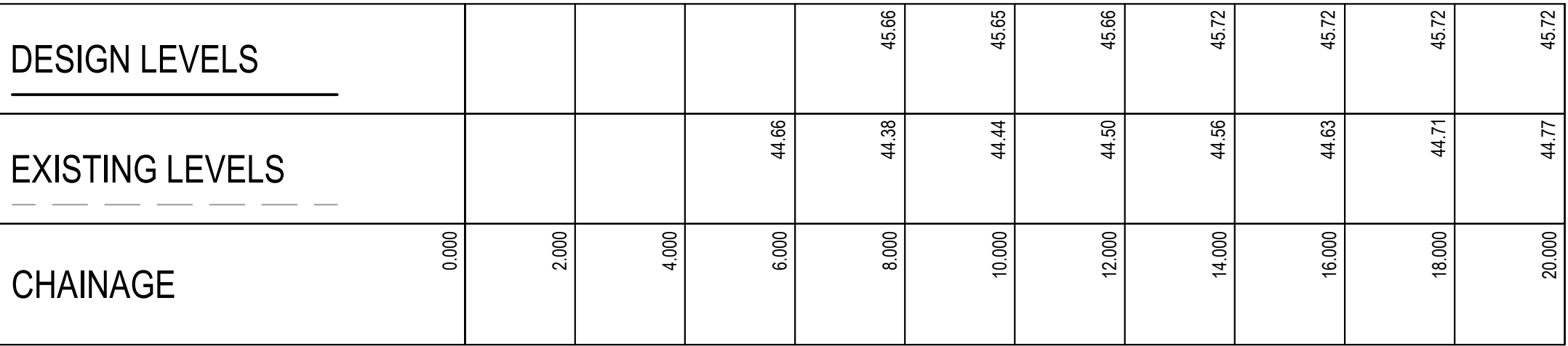
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PRELIMINARY

[illegible]

[illegible]



PROPOSED BUILDING

BUILDING RETAINING WALLS TO STRUCTURAL ENGINEERS DETAILS

WATERPROOFING TO ARCH SPECIFICATIONS

PROPOSED KERB FORMED IN FOOTPATH 150mm X 150mm

ACCESS RAMP TO ARCHITECTS DETAILS

PROPOSED KERB

EXISTING LEVELS

PROPOSED PAVEMENT LEVEL

1:3 BATTER TO EXISTING

MATCH EXISTING LEVEL

33.155%

EXISTING BOUNDARY

RL45.72

RETAINING WALL SUBSOIL DRAINAGE

SUBSOIL DRAINAGE BEHIND KERB. REFER C201

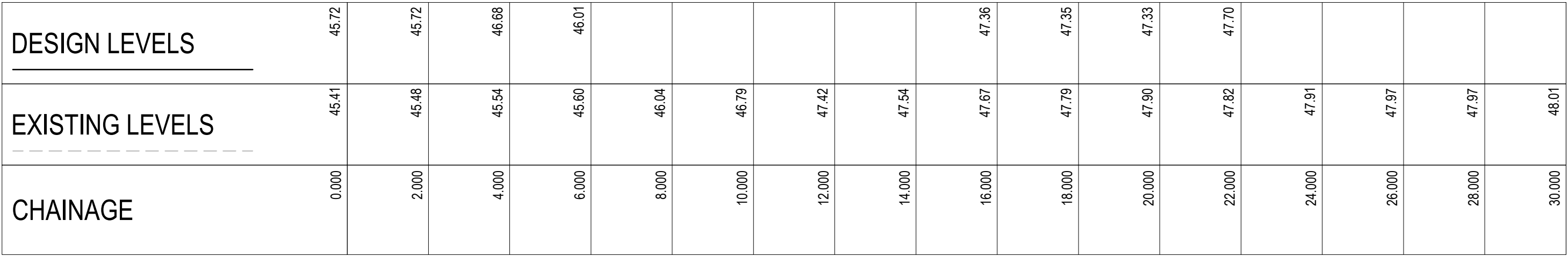
-0.698%

0.698%

CHAINAGE	EXISTING LEVELS		DESIGN LEVELS	
0.000	46.65	45.72		
2.000	46.69	46.72		
4.000	46.73	46.72		
6.000	46.77	46.72		
8.000	46.81	47.94		
10.000	46.84	47.76		
12.000	46.87	47.74		
14.000	46.90	47.73		
16.000	46.92	47.71		
18.000	46.96	47.70		
20.000	47.33	47.71		
22.000	47.74	47.73		
24.000	48.15	47.74		
26.000	48.56	47.76		
28.000	48.92	48.30		
30.000	49.10	48.97		
32.000	49.17			
34.000	49.28			
35.000	49.31			

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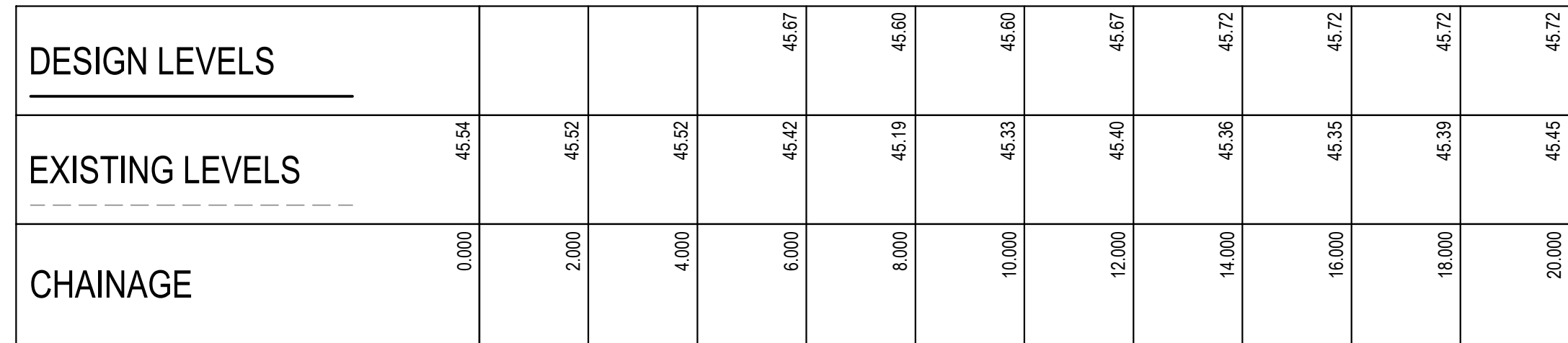
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			14.000	47.63	
			16.000	48.07	
			18.000	48.52	47.93
			20.000	48.69	47.68
			22.000	48.75	47.71
			24.000	48.81	47.73
			26.000	48.88	48.26
			28.000	48.94	48.92
			30.000	49.03	
			32.000	49.10	
			34.000	49.20	
			35.000	49.20	

Technical drawing of a 100mm high marker. The drawing shows a cross-section of the marker with the following dimensions and components labeled:

- 140mm: Diameter of the top section.
- 1100mm: Total height of the marker.
- 5mm: Thickness of the top section.
- ROUNDED TOP: The top surface of the marker.
- 25-50mm: Thickness of the reflective band.
- REFLECTIVE BAND: The band on the top section.
- COLOURED: The color of the top section.
- GALVANISED: The material of the top section.
- GROUND LEVEL: The base of the marker.
- ANCHORING BARS: The bars used to secure the marker into the ground.
- 400mm: Depth of the marker into the ground.

FOR DA ONLY

SURVEY INFORMATION SURVEYED BY LANDPARTNERS DATUM: AHD ORIGIN OF LEVELS: PM52452, RL42.876										Client ESR Architect SBA ARCHITECTS This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.										Suite 2.01 828 Pacific Highway Gordon NSW 2072 Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email enquiries@hthconsult.com.au Web www.henryandhymas.com.au										 henry&hymas										Project PROPOSED WAREHOUSE DEVELOPMENT 50-52 AIRDS ROAD, MINTO, NSW Drawn A.Fernandes Designed L.Villa Original issue date NOV 2023 Checked L.Villa Approved A.Francis Scale @A1 1:100																													
																																								Title SITE SECTIONS SHEET 3 OF 8										Drawing number 230541_DA_C152										Revision 03									
																																								REVISION AMENDMENT DATE										REVISION AMENDMENT DATE										REVISION AMENDMENT DATE									
																																								03 ISSUED FOR DA ONLY AFe LV 18.03.2024										02 ISSUED FOR DA ONLY AFe LV 18.12.2023										01 ISSUED FOR PRELIMINARY AFe LV 08.12.2023									



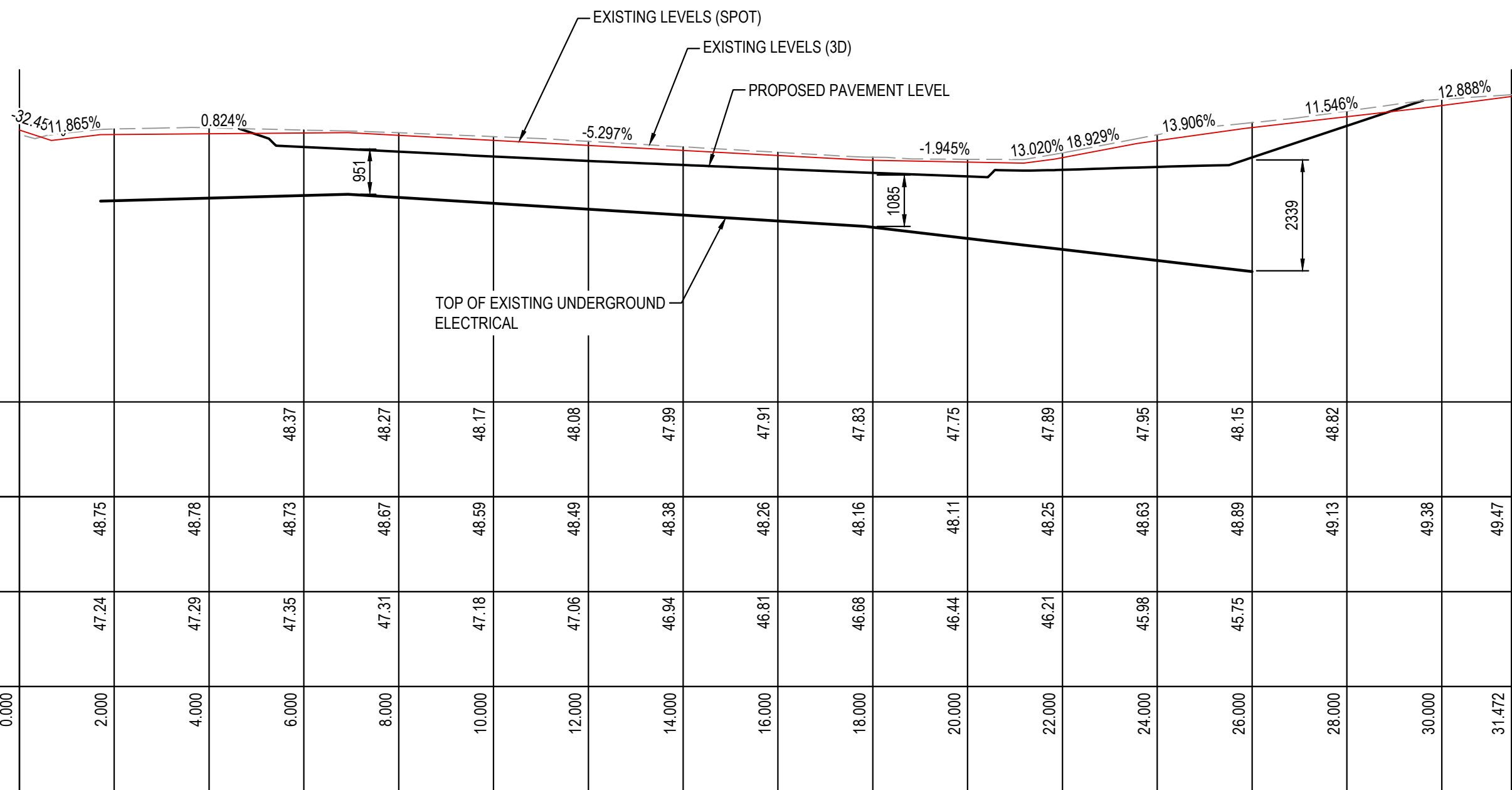
Profile view of the proposed road pavement. The diagram shows the existing ground level (dashed line) and the proposed pavement level (solid line). Key features include:

- RECESS DOCK**: Indicated by a vertical dimension of 1300.
- EXISTING LEVELS**: Shown as a dashed line.
- PROPOSED PAVEMENT LEVEL**: Shown as a solid line.
- Elevations**: RL45.72, RL44.42, RL44.595, RL44.41, and -1.891%.
- Grades**: 1.400%, 5.270%, and 1.0-2.0% MAX.
- Distances**: 12.5M @ 1.4% and 15747 @ 5.2%.

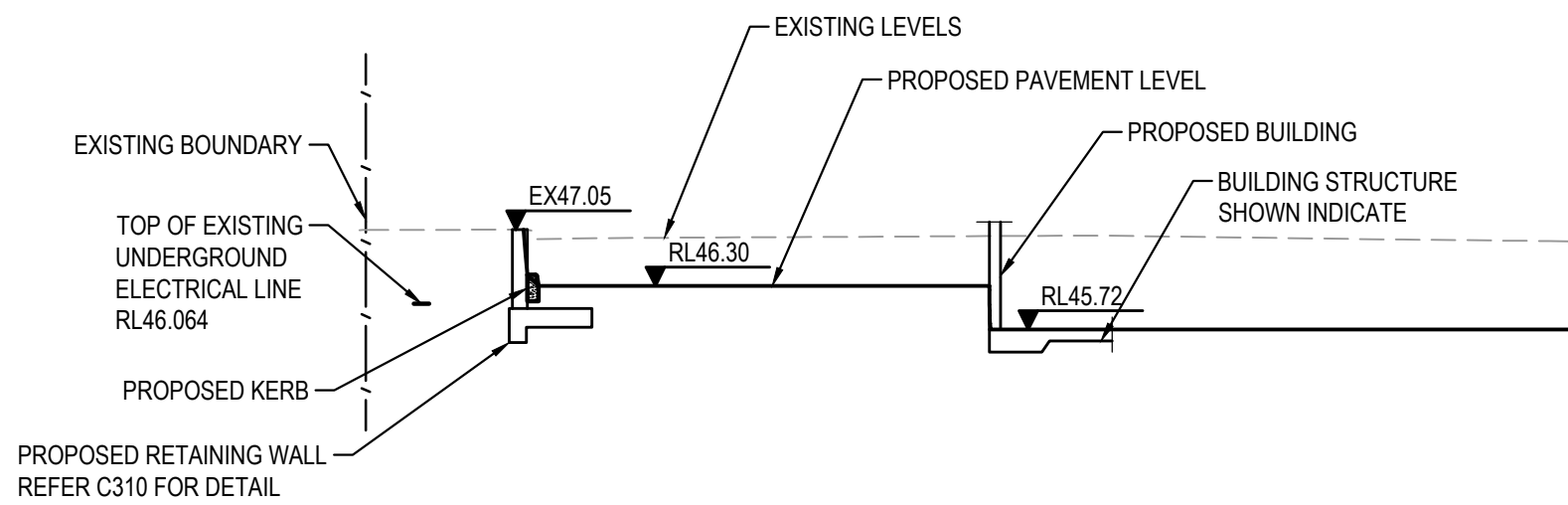
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FOR DA ONLY

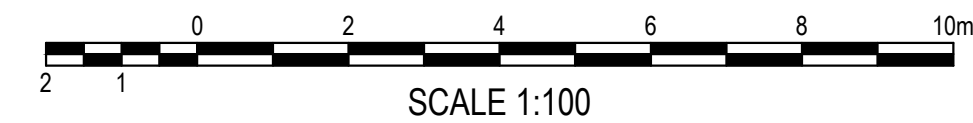
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SECTION 12 - UNDER GROUND ELECTRICAL LINE
SCALE 1:100



SECTION 13
SCALE 1:100



FOR DA ONLY

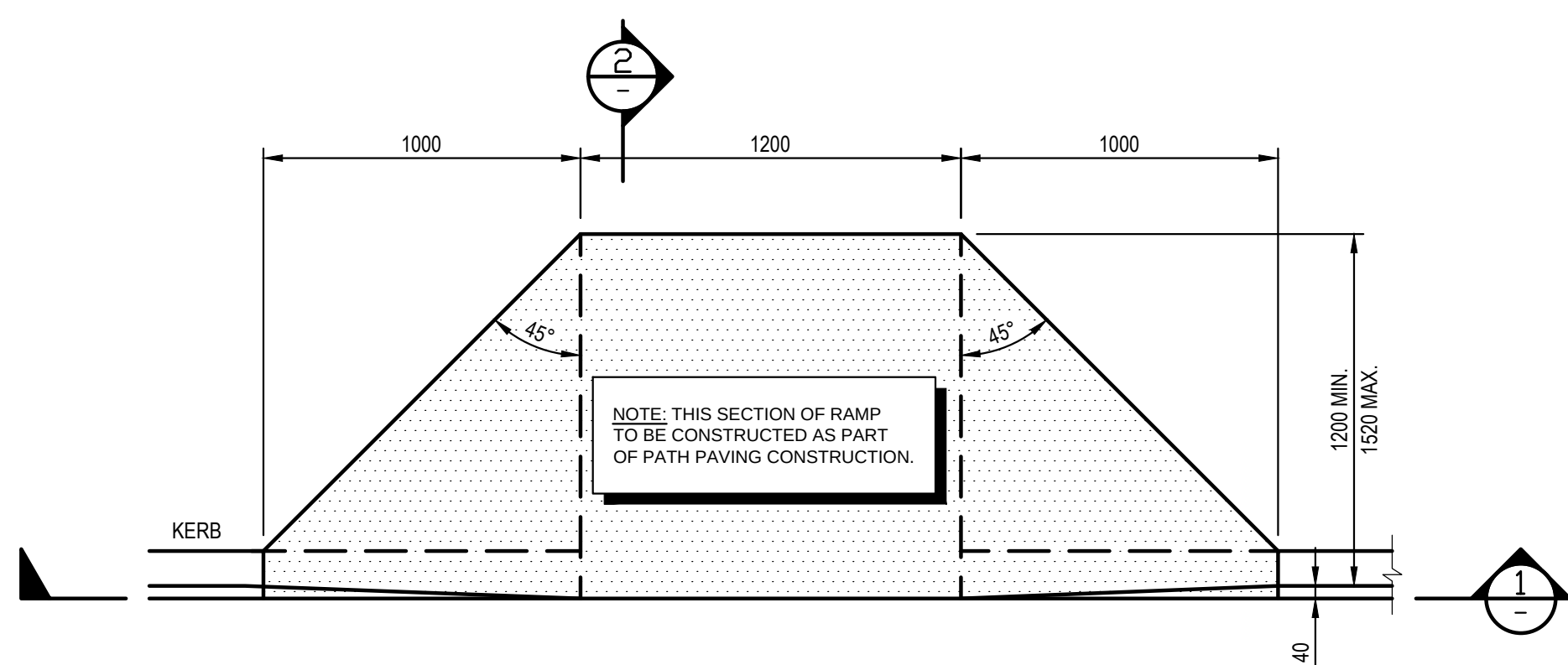
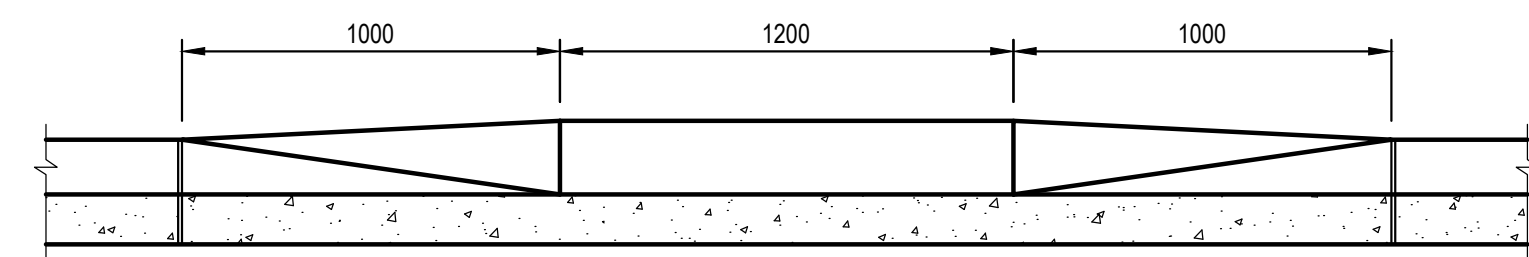
SURVEY INFORMATION SURVEYED BY LANDPARTNERS DATUM: AHD ORIGIN OF LEVELS: PM52452, RL42.876																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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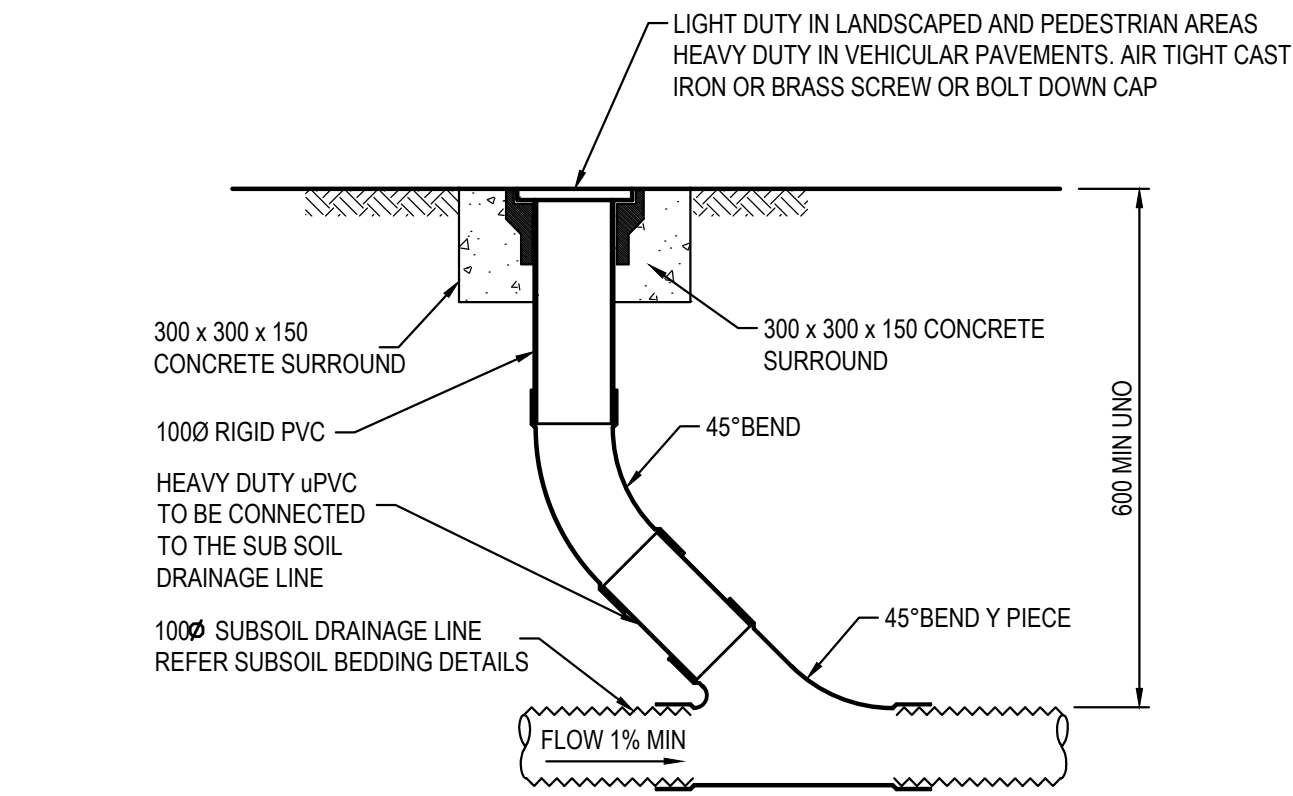


A horizontal graphic scale bar divided into alternating black and white segments. The top edge has numerical markings at 0, 2, 4, 6, 8, and 10m. The bottom edge has markings at 2 and 1. Below the bar, the text "SCALE 1:100" is centered.

FOR DA ONLY

[illegible]

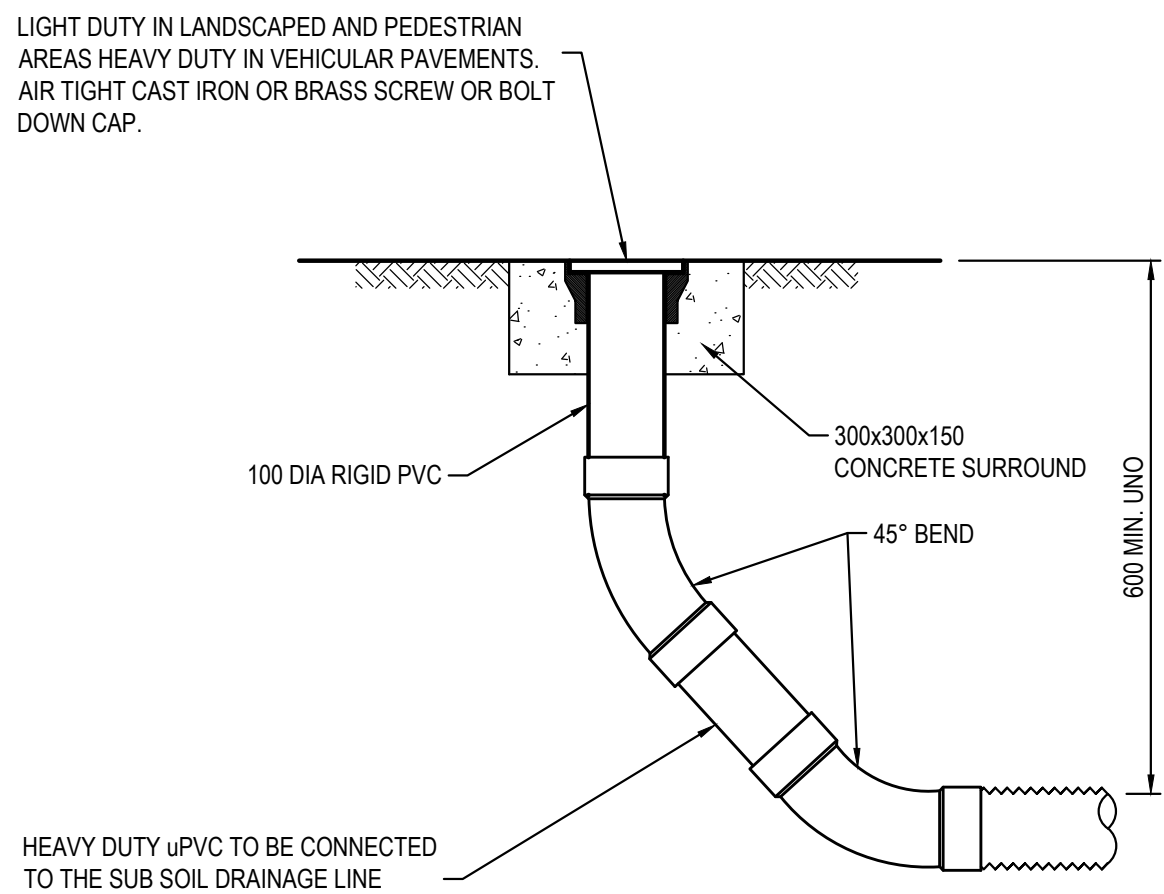
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INTERMEDIATE RISER (IR)

SCALE 1:10

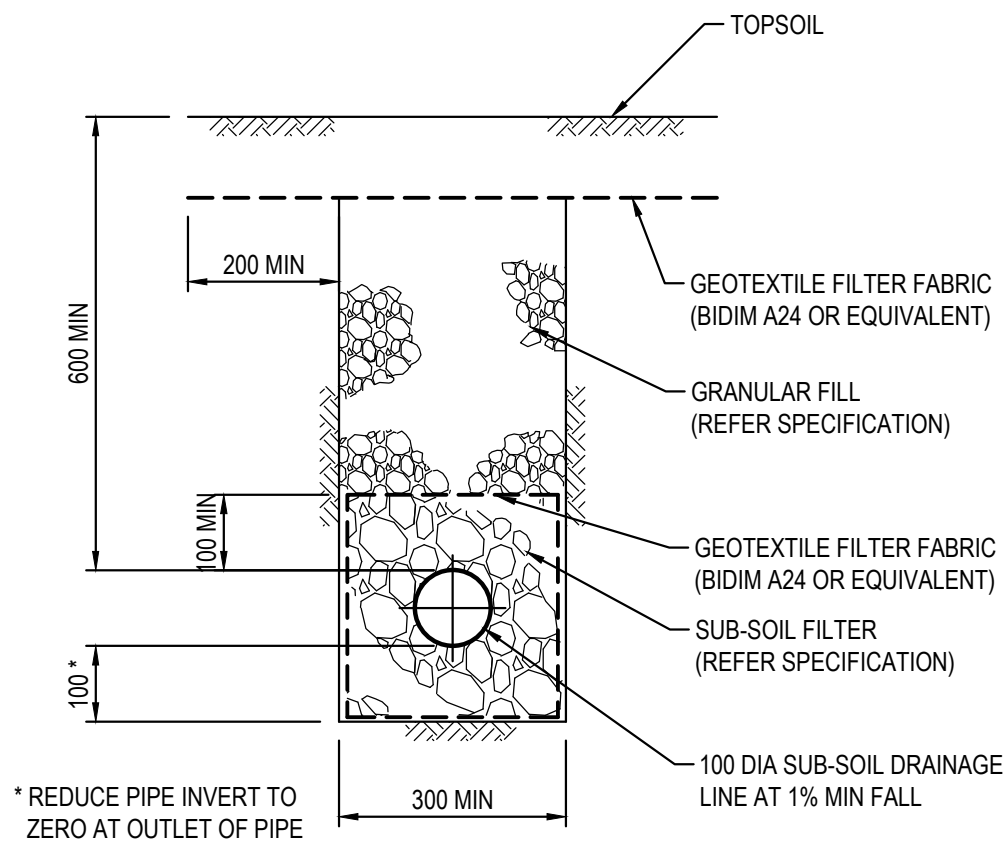
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



FLUSHING POINT (FP)

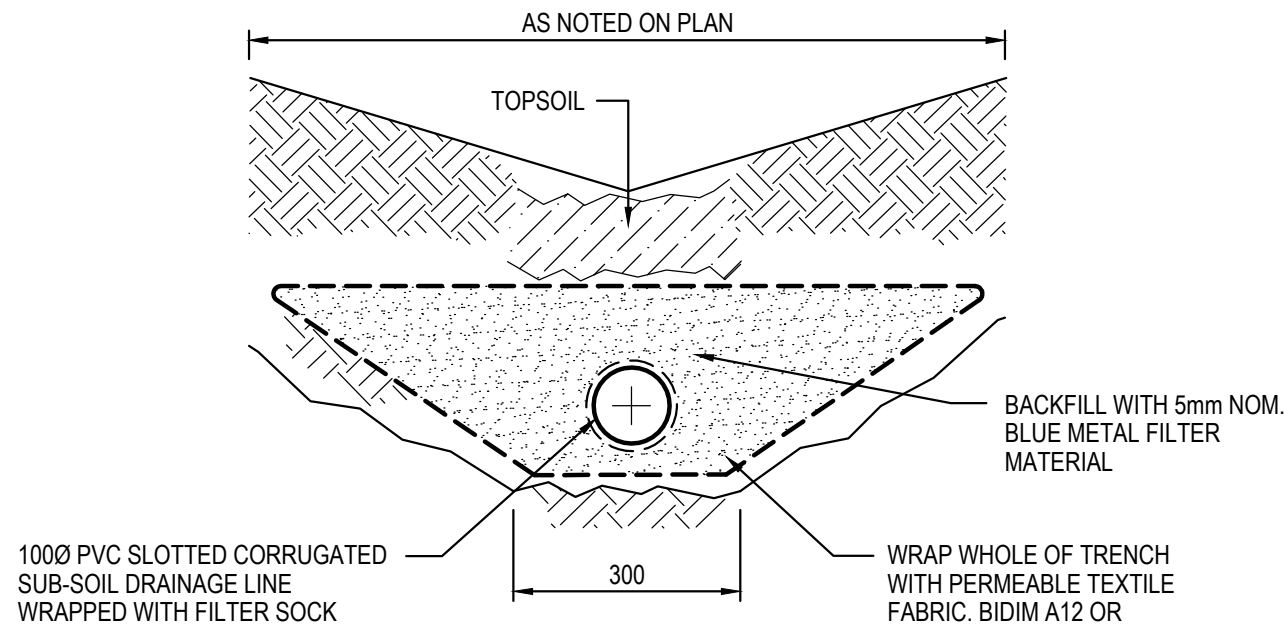
SCALE 1:10

NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



SUB-SOIL IN LANDSCAPED AREAS

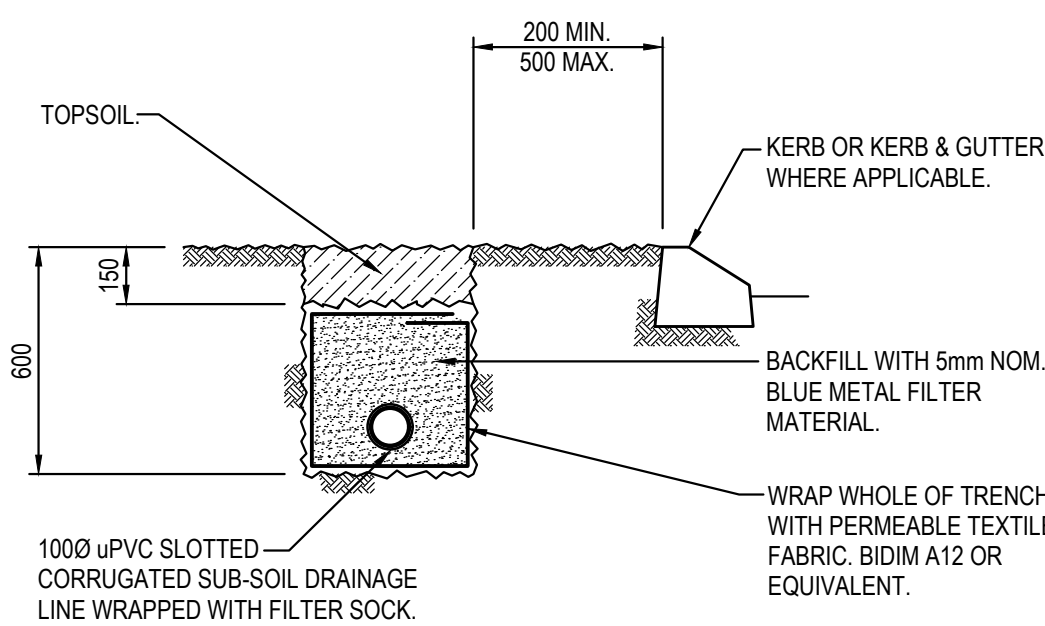
SCALE 1:10



SUBSOIL DRAIN DETAIL IN SWALES

SCALE 1:10

SWALE SUBSOIL NOT SHOWN ON PLAN FOR CLARITY.



SUB-SOIL DRAIN DETAIL

SCALE 1:20

DRAINAGE NOTES:

1. ALL STORMWATER WORK TO COMPLY WITH AS 3500 PART 3.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM COVER OF 600mm ON ALL PIPES.

3. PROTECTION OF PIPES DUE TO LOADS EXCEEDING W7 WHEEL LOAD SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

4. BEDDING TYPE SHALL BE TYPE H2 FOR RCP. WHERE NECESSARY THE OVERLAY ZONE SHALL BE REDUCED TO ACCOMMODATE PAVEMENT REQUIREMENTS. REFER TO THIS DRAWING FOR DETAILS.

5. MINIMUM COVER OVER EXISTING PIPES FOR PROTECTION DURING CONSTRUCTION SHALL BE 800mm.

6. NO CONSTRUCTION LOADS SHALL BE APPLIED TO PLASTIC PIPES.

7. FINISHED SURFACE LEVELS SHOWN ON LAYOUT PLAN DRGS TAKE PRECEDENCE OVER DESIGN DRAINAGE SURFACE LEVELS.

8. ALL PIPES UP TO AND INCLUDING 300 DIA. SHALL BE SOLVENT OR RUBBER RING JOINTED PVC CLASS SH PIPE TO AS1260. ALL OTHER PIPES TO BE RCP USING CLASS 2 RUBBER RING JOINTED PIPE. HARDIES FRC PIPE MAY BE USED IN LIEU OF RCP IF DESIRED IN GROUND. ALL AERIAL PIPES TO BE PVC CLASS SH.

9. ALL PITS IN NON TRAFFICABLE AREAS TO BE PREFABRICATED POLYESTER CONCRETE "POLYCRETE" WITH "LIGHT DUTY" CLASS B GALV. MILD STEEL GRATING AND FRAME. ALL PITS IN TRAFFICABLE AREAS (CLASS "D" LOADING MAX) TO HAVE 150mm THICK CONCRETE WALLS AND BASE CAST IN-SITU f_{c-32} MPa, REINFORCED WITH N12-200 BOTH LOADING WAYS CENTRALLY PLACE. U.N.O. ON SEPARATE DESIGN DRAWINGS IN THIS SET. GALV MILD STEEL GRATING AND FRAME TO SUIT DESIGN LOADING. PRECAST PITS, RECTANGULAR OR CIRCULAR IN SHAPE, MAY BE USED IN LIEU AND SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS.

10. ALL PITS, GRATINGS AND FRAMES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND TO BE IN ACCORDANCE WITH AS3500.3 AND AS3596.

11. PIT CHAMBER DIMENSIONS ARE TO BE SELECTED TO SATISFY THE FOLLOWING:

- PIPE SIZE
- DEPTH TO INVERT
- SKEW ANGLE

REFER TYPICAL PIT CHAMBER DETAILS BELOW

IF PIT LID SIZE IS SMALLER THAN THE PIT CHAMBER SIZE THEN THE PIT LID IS TO BE CONSTRUCTED ON THE CORNER OF THE PIT CHAMBER WITH THE STEP IRONS DIRECTLY BELOW. ALTERNATIVELY THE PIT LID TO BE USED, IS TO BE THE SAME SIZE AS THE PIT CHAMBER.

12. FOR PIPE SIZES GREATER THAN Ø300mm, PIT FLOOR IS TO BE BENCHED TO FACILITATE FLOW.

13. GALVANISED STEP IRONS SHALL BE PROVIDED AT 300 CTS FOR PITS HAVING A DEPTH EXCEEDING 1200mm. SUBSOIL DRAINAGE PIPE SHALL BE PROVIDED IN PIPE TRENCHES ADJACENT TO INLET PIPES. (MINIMUM LENGTH 3m).

14. ALL SUBSOIL PIPES SHALL BE 100mm SLOTTED PVC IN A FILTER SOCK, UNO, WITH 3m INSTALLED UPSTREAM OF ALL PITS.

15. ALL PIPEWORK SHALL HAVE MINIMUM DIAMETER 100.

16. MINIMUM GRADE FOR ROOFWATER DRAINAGE LINES SHALL BE 1%.

17. ALL PIPE JOCTIONS AND TAPER UP TO AND INCLUDING 300 DIA. SHALL BE VIA PURPOSE MADE FITTINGS.

18. ALL ROOF DRAINAGE TO BE INSTALLED IN ACCORDANCE WITH AS3500, PART 3. TESTING TO BE UNDERTAKEN AND REPORTS PROVIDED TO THE SUPERINTENDENT.

19. LOCATION OF THE DIRECT DOWN PIPE CONNECTIONS MAY VARY ON SITE TO SUIT SITE CONDITIONS, WHERE CONNECTION SHOWN ON LONG SECTIONS CHAINAGES ARE INDICATIVE ONLY.

20. PITS IN EXCESS OF 1.5 m DEEP TO HAVE WALL AND FLOOR THICKNESS INCREASED TO 200mm. REINFORCED WITH N12@200 CTS BOTH WAYS, BOTH FACES THROUGHOUT U.N.O. ON SEPARATE DESIGN DRAWINGS IN THIS SET. IF DEPTH EXCEEDS 5m CONTACT ENGINEER.

21. SUBSOIL DRAINAGE LINES FOR LANDSCAPE AREA NOT SHOWN ON THESE DRAWINGS. REFER TO LANDSCAPING PLANS FOR DETAILS.

22. ALL STORMWATER PITS TO HAVE Ø100 uPVC SLOTTED SUBSOIL PIPES CONNECTED TO THEM. THESE SUBSOILS TO EXTEND 3m UPSTREAM OF THE PIT AT A MINIMUM GRADE.

PLAN ID	MAXIMUM PIT PLAN DIMENSIONS
S	450mm x 450mm
M	600mm x 600mm
L	900mm x 900mm
XL	1200mm x 1200mm

DEPTH ID	BAG DEPTH	OVERALL DEPTH
1	170	270
2	300	450
3	600	700

PLAN ID	DEPTH ID			
		1	2	3
	S	■	■	■
	M	■	■	■
	L	■	■	■
	XL	■	■	■



GENERAL NOTES

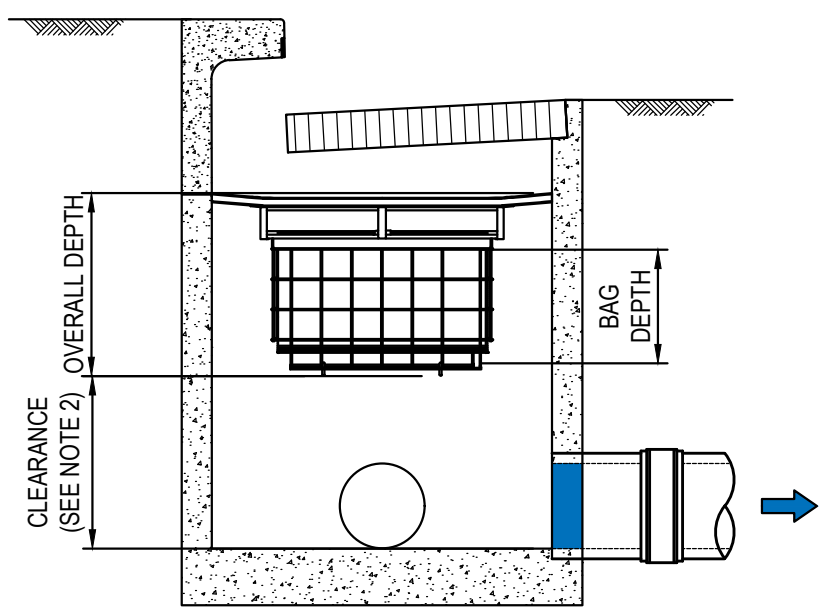
- THE MINIMUM CLEARANCE DEPENDS ON THE CONFIGURATION (SEE NOTE 2) AND THE LOCAL COUNCIL REQUIREMENTS.
- CLEARANCE FOR ANY PIT WITHOUT AN INLET PIPE (ONLY USED FOR SURFACE FLOW) CAN BE AS LOW AS 50mm. FOR OTHER PITS, THE RECOMMENDED CLEARANCE SHOULD BE GREATER OR EQUAL TO THE PIPE OBVERT SO AS NOT TO INHIBIT HYDRAULIC CAPACITY.
- OCEAN PROTECT PROVIDES TWO FILTRATION BAG TYPES:- 200 MICRON BAGS FOR HIGHER WATER QUALITY FILTERING AND A COARSE BAG FOR TARGETING GROSS POLLUTANTS.
- DRAWINGS NOT TO SCALE.



PHONE: 1300 354 722

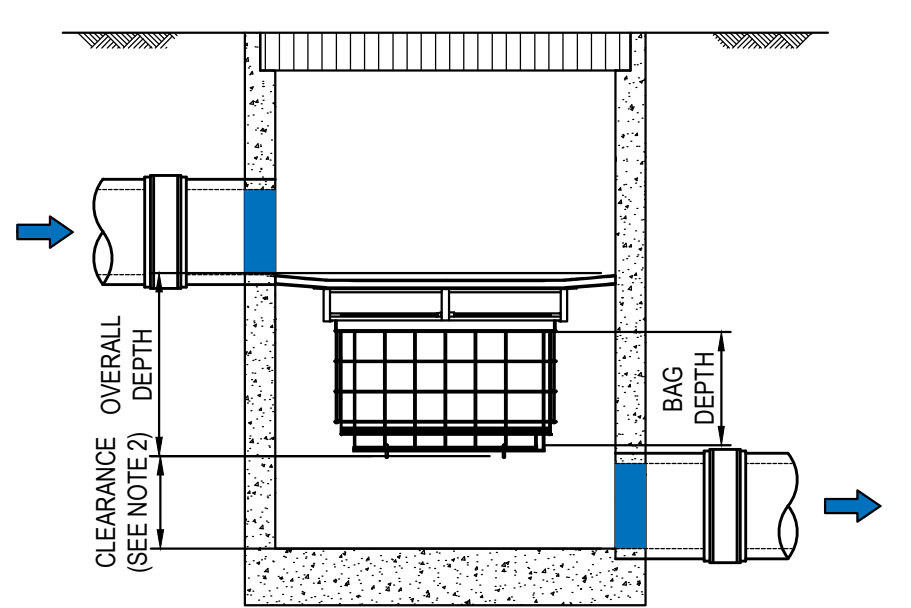
www.oceanprotect.com.au

OCEAN PROTECT
OCEANGUARD
TYPICAL ARRANGEMENTS
SPECIFICATION DRAWING



SURFACE FLOW CONFIGURATION

SCALE: 1:20



PIPE FLOW CONFIGURATION

SCALE: 1:20

FOR DA ONLY

SURVEY INFORMATION

SURVEYED BY LANDPARTNERS
DATUM: AHD
ORIGIN OF LEVELS: PM52452, RL42.876

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR DA ONLY	AFe	LV	19.12.2023					
01	ISSUED FOR PRELIMINARY	AFe	LV	08.12.2023					

Client

ESR

Architect

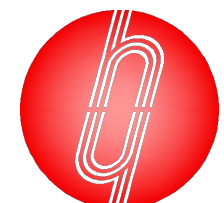
SBA ARCHITECTS

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Project

PROPOSED WAREHOUSE DEVELOPMENT
50-52 AIRDS ROAD, MINTO, NSW

Title

STORMWATER MISCELLANEOUS DETAILS

Drawn

M.Pereira

Checked

L.Villa

Drawing number

230541_DA_C201

Revision

02

Designed

L.Villa

Approved

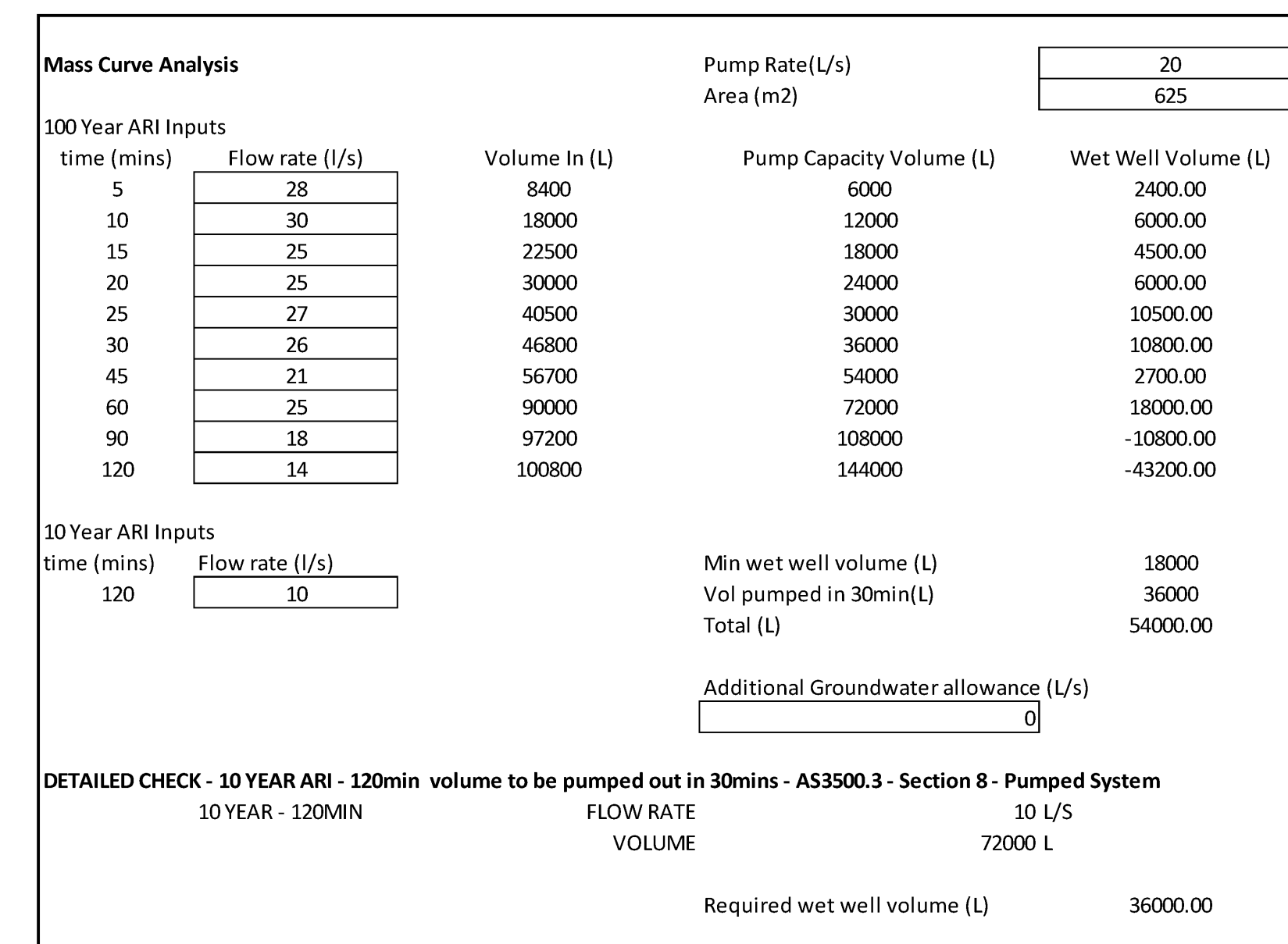
A.Francis

Original issue date

JUNE

Scale (B1)

AS NOTED



NTS

SCALE: 1:20

FOR DA ONLY

[illegible]

A STORMWATER MANAGEMENT PLAN HAS BEEN PREPARED TO LIMIT AND ELIMINATE ANY ADVERSE AFFECT ON THE ADJACENT ECOSYSTEM RESULTING FROM THE PROPOSED DEVELOPMENT. A MUSIC MODEL HAS BEEN PREPARED TO DETERMINE THE EFFECTIVENESS OF THE WATER QUALITY TREATMENT DEVICES AT REACHING THE REMOVAL RATES TARGETS SET IN THE CAMPBELLTOWN (SUSTAINABLE CITY) DEVELOPMENT CONTROL PLAN 2015 VOLUME 2 ENGINEERING DESIGN FOR DEVELOPMENT, SECTION 4.15 STORMWATER QUALITY

PROPOSED TREATMENT DEVICES:

- OCEANGUARD PIT BASKETS FOR ALL SURFACE INLET PITS
- 57x 690 STORMFILTERS
- 2x 50KL RAINWATER TANKS

POLLUTANT	SOURCES	RESIDUAL LOAD	% REDUCTION	%TARGETS
TOTAL SUSPENDED SOLIDS	4043	598.7	85.19	85
TOTAL PHOSPHOROUS	12.7	4.745	62.63	60
TOTAL NITROGEN	147.6	78.86	46.56	45
GROSS POLLUTANTS	1645	0.003675	100	95

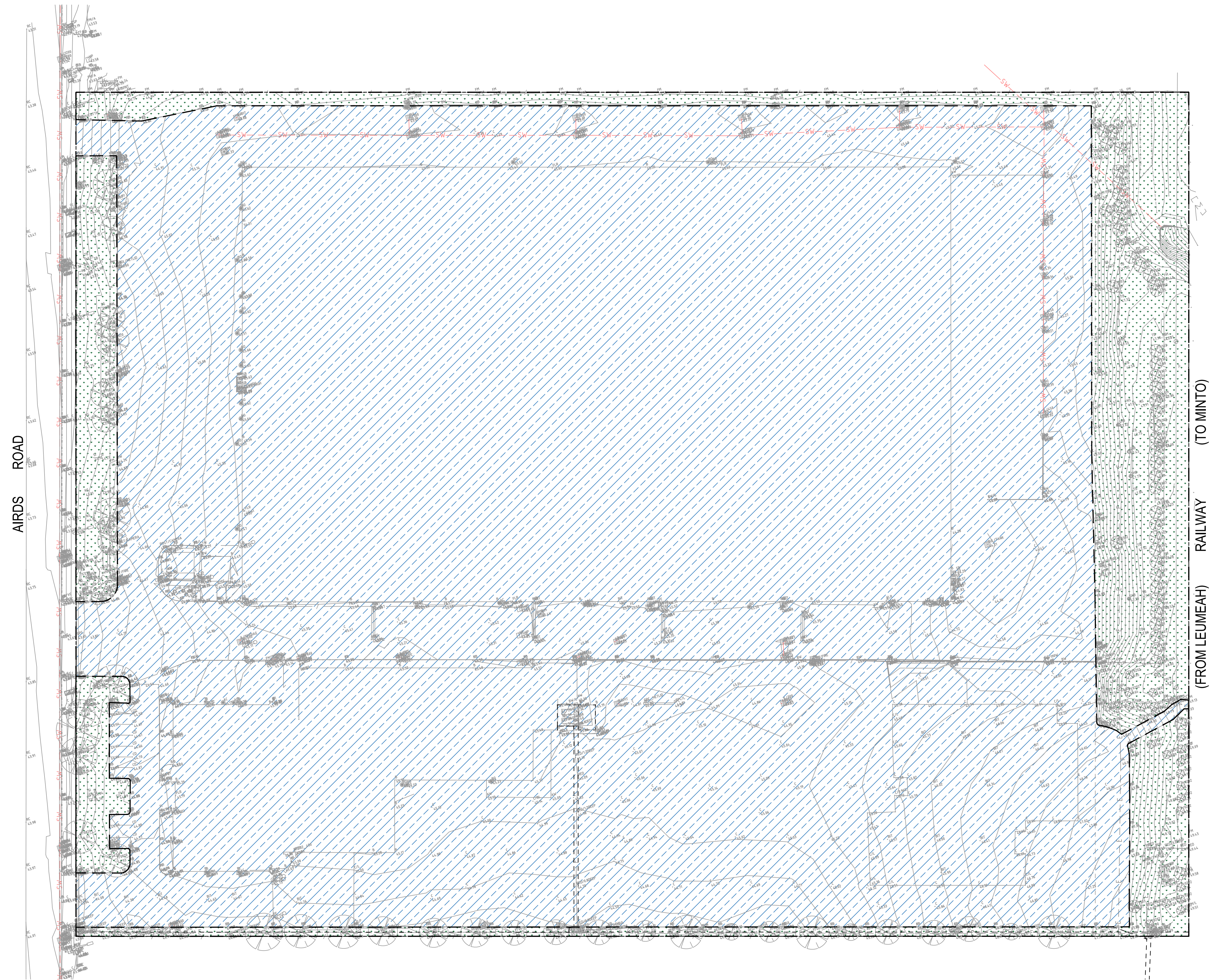


500 300 100 0 500 1000 1500 2000 2500mm

SCALE 1:25

FOR DA ONLY

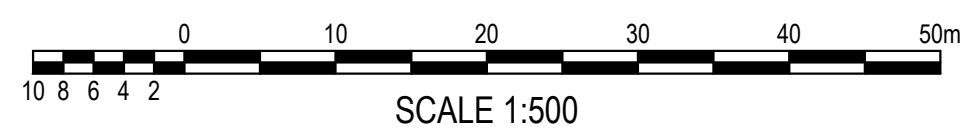
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 IMPERVIOUS AREA = 47153m² (86.8%)

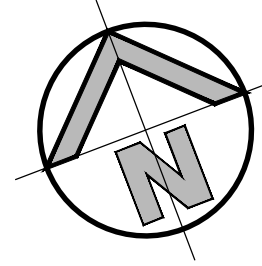
 PERVIOUS AREA = 7192m² (13.2%)

SCALE: 1:500



Drawn M.Pereira	Designed L.Villa	Original issue date JUNE
Checked L.Villa	Approved A.Francis	Scale @A1 1:500
Drawing number 230541_DA_C250		Revision 02

[illegible]



1.A

1.B

1.C

1.D

2.A

2.B

2.C

2.D

AIKDS ROAD

(TO MINTO)

RAILWAY

(FROM LEUMEAH)

CONNECT CATCHMENT C1 TO EXISTING STORMWATER PIPE. CONSTRUCT NEW STORMWATER INLET PIT OVER EXISTING STORMWATER LINE. PROVIDE NEW 900 x 900 ACCESS (HEAVY DUTY 'CLASS D') HINGED GRADE LID OF 2 x 450 x 900 GRATES IN 'BUTTERFLY' CONFIGURATION. PIT TO COUNCIL SPECIFICATIONS. PIT TO BE FULLY BENCHED (FULL PIT HEIGHT).

CONNECT CATCHMENT C2 TO EXISTING STORMWATER PIT. MODIFY EXISTING PIT TO ACCEPT NEW 900 DIAMETER STORMWATER PIPE. PROVIDE NEW 2 X 900 X 900 ACCESS (HEAVY DUTY 'CLASS D') HINGED GRADE LID OF 2 (2 X 450 X 900) GRATES IN 'BUTTERFLY' CONFIGURATION. PIT TO COUNCIL SPECIFICATIONS. PIT TO BE FULLY BENCHED (FULL PIPE HEIGHT).

CONNECT CATCHMENT C3 TO EXISTING STORMWATER PIT. CONNECT NEW Ø600 RCP TO PIT. RECONSTRUCT PIT TO COUNCIL STANDARD IF REQUIRED. PIT TO BE FULLY BENCHED (FULL PIPE HEIGHT).

LEGEND

TOTAL SITE AREA = 54345m²

--- CATCHMENT LINE

C1 = 11323m²

ROOF - 7831m²

HANDSTAND - 2395m²

LANDSCAPING - 1097m²

C2 = 31770m²

ROOF - 21327m²

HANDSTAND - 7979m²

LANDSCAPING - 2464m²

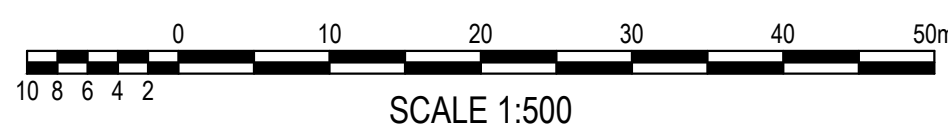
C3 = 11252m²

ROOF - 7407m²

HANDSTAND - 2500m²

LANDSCAPING - 1345m²

NOTE:
1. REFER TO C220 FOR CATCHMENT BREAKDOWN FOR WATER QUALITY PURPOSES.



POST-DEVELOPMENT CATCHMENT PLAN

SCALE: 1:500

FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LANDPARTNERS
DATUM: AHD
ORIGIN OF LEVELS: PM52452, RL42.876

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
03	ISSUED FOR PRELIMINARY	MB	LV	07.08.2024					
02	ISSUED FOR PRELIMINARY	AFe	LV	18.12.2023					
01	ISSUED FOR PRELIMINARY	AFe	LV	08.12.2023					

Client
ESR

Architect
SBA ARCHITECTS

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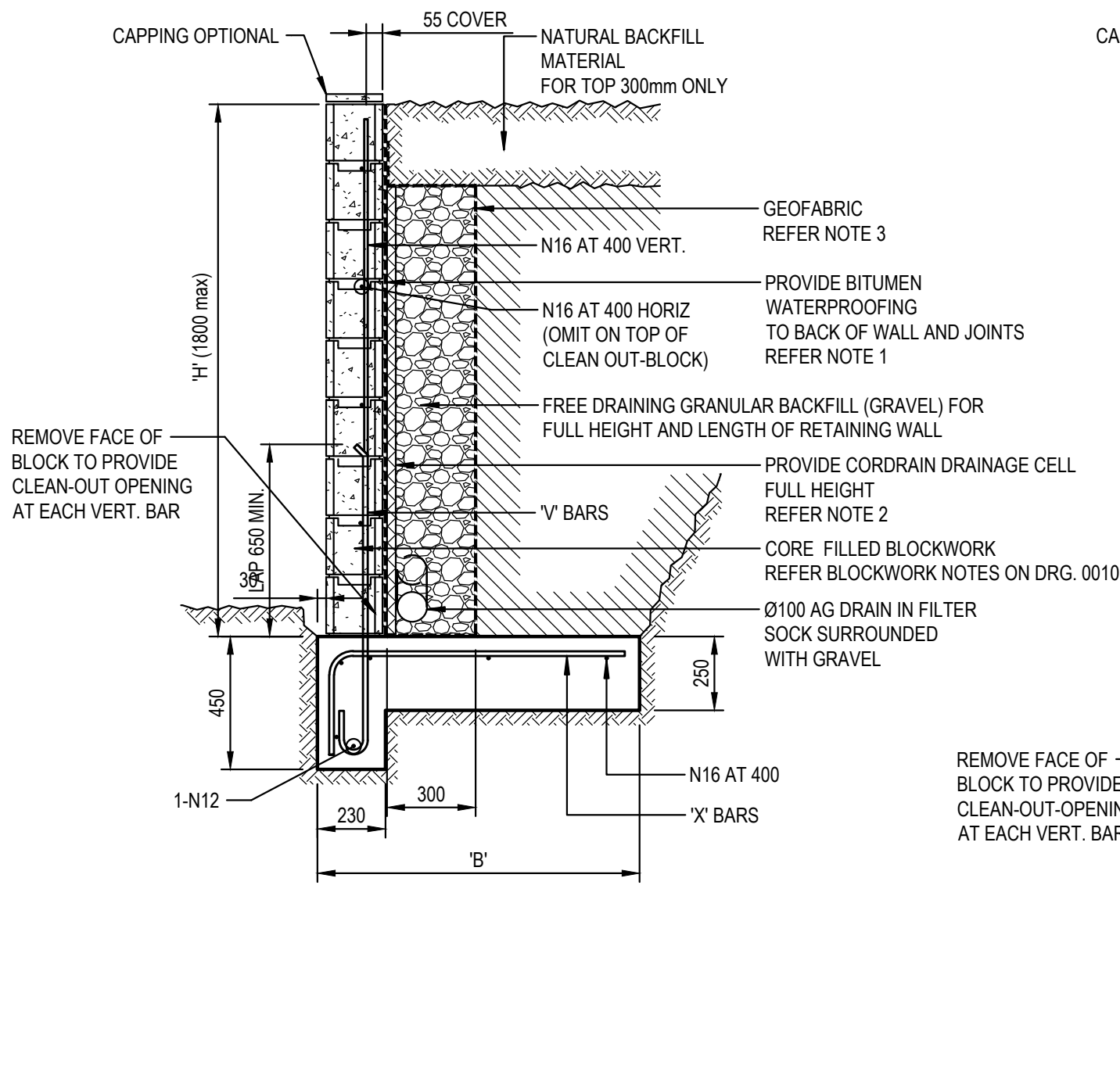


Project
PROPOSED WAREHOUSE DEVELOPMENT
50-52 AIRDS ROAD, MINTO, NSW

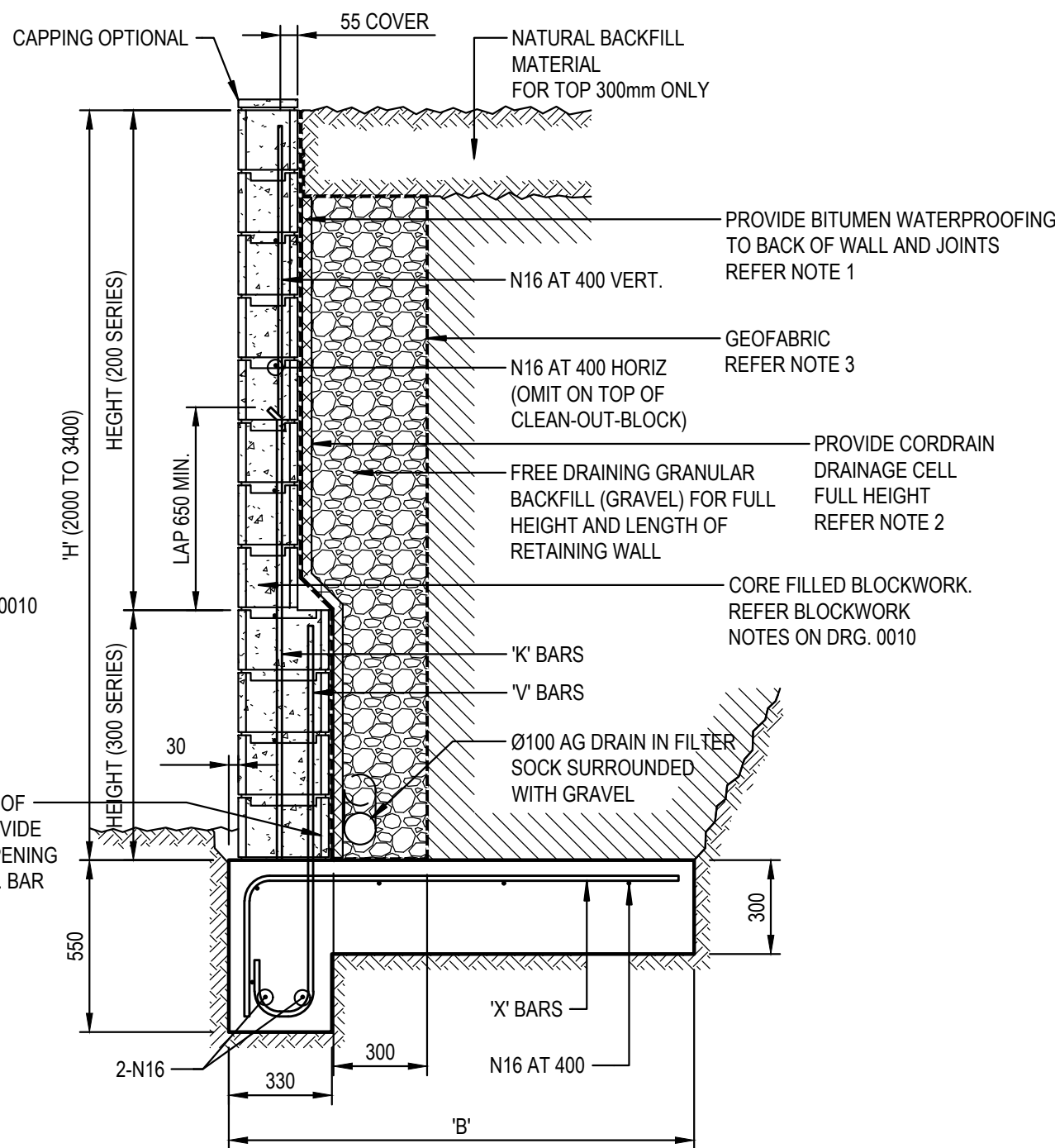
Title
POST-DEVELOPMENT CATCHMENT PLAN

Drawn M.Pereira	Designed L.Villa	Original issue date JUNE
Checked L.Villa	Approved A.Francis	Scale (B:A) 1:500

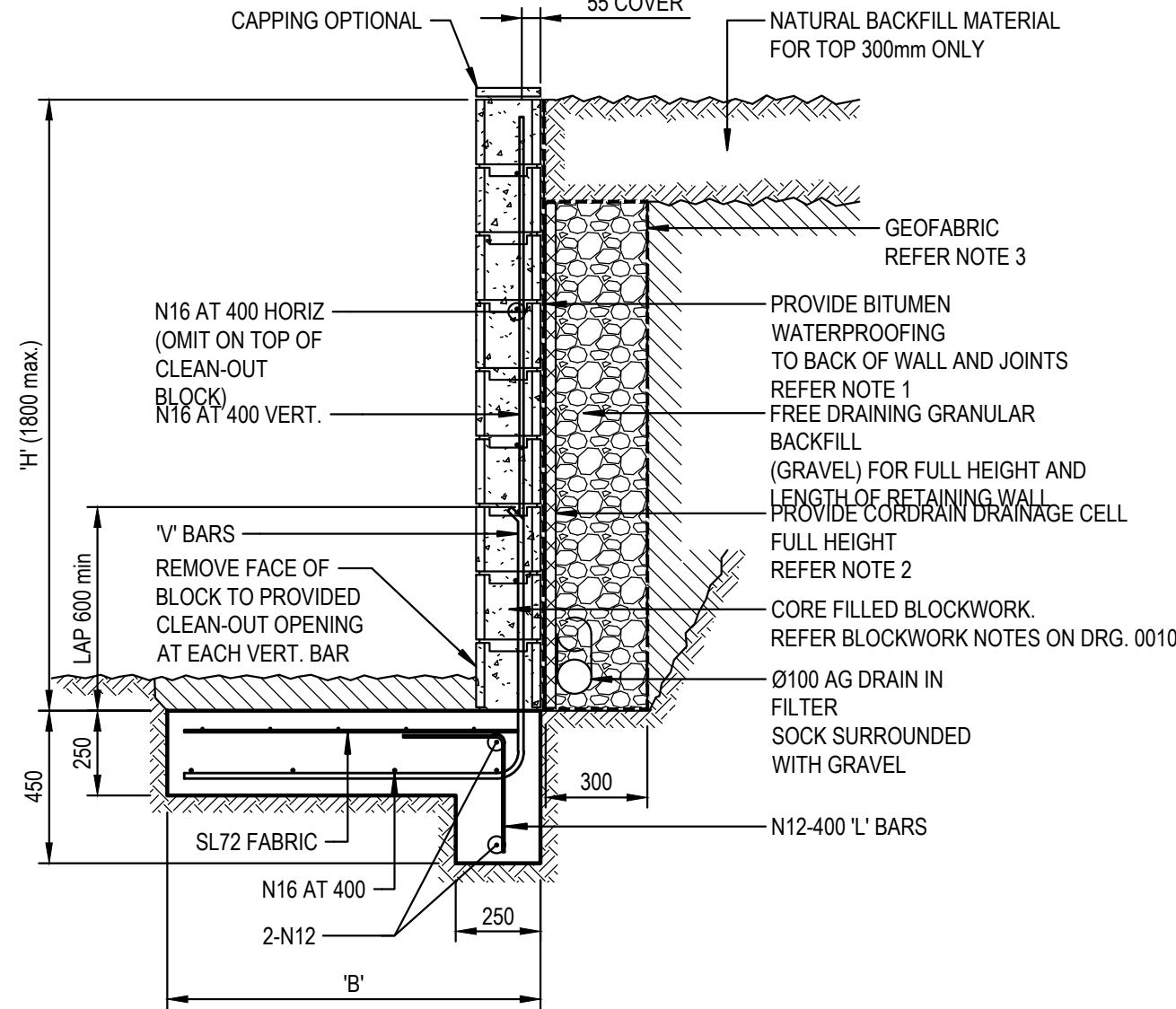
Drawing number 230541_DA_C251	Revision 03
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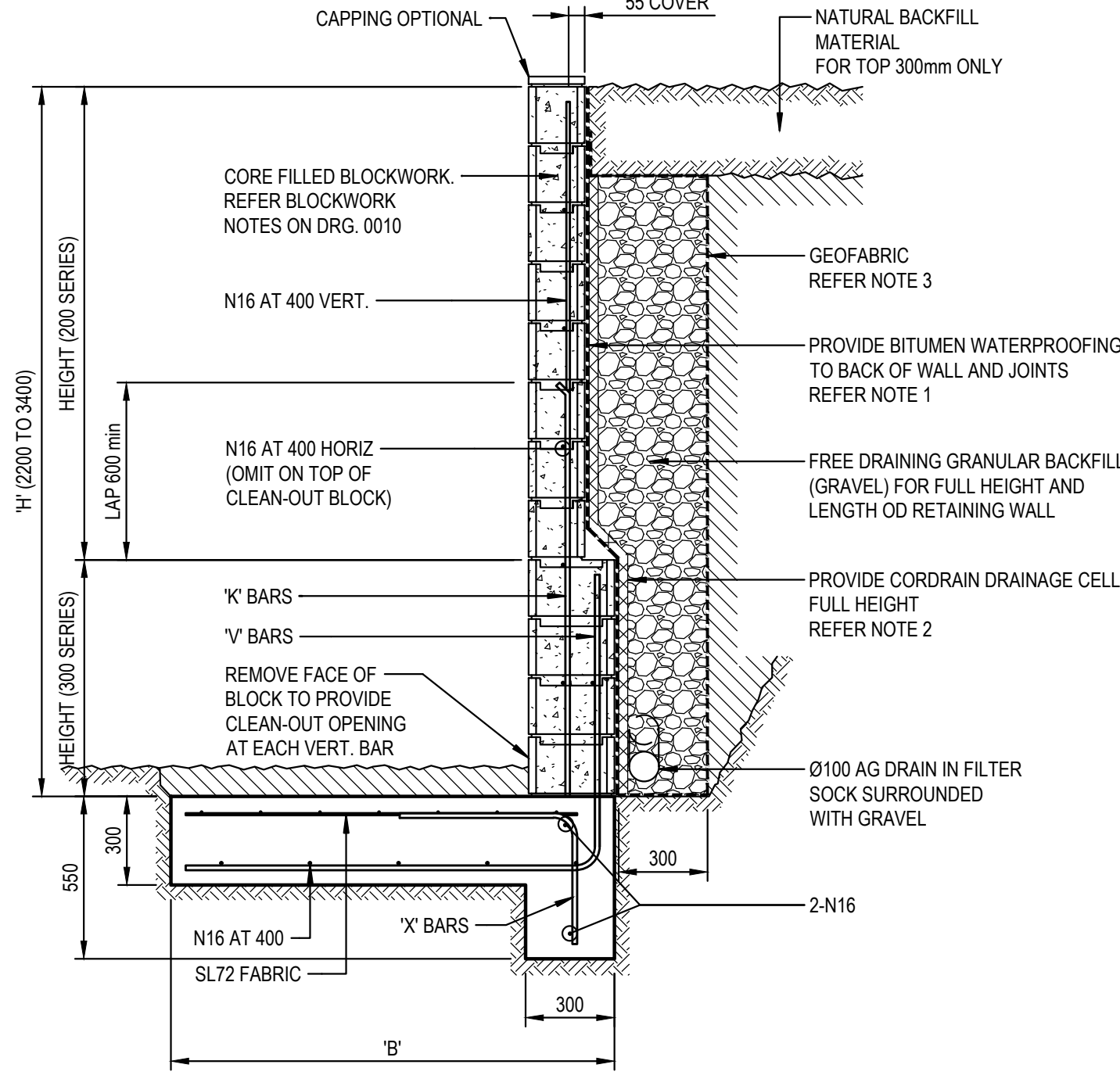
150 AND 200 SERIES BLOCK WALL - TYPE A
15.0 kPa SURCHARGE



200 AND 300 SERIES BLOCK WALL
15.0 kPa SURCHARGE

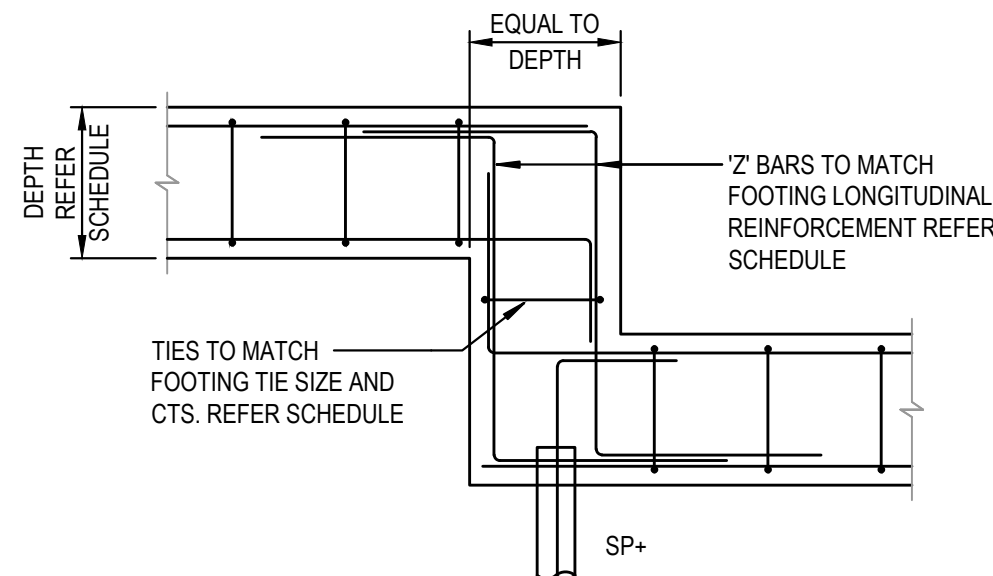


150 OR 200 SERIES BLOCK WALL - TYPE B
15.0 kPa SURCHARGE



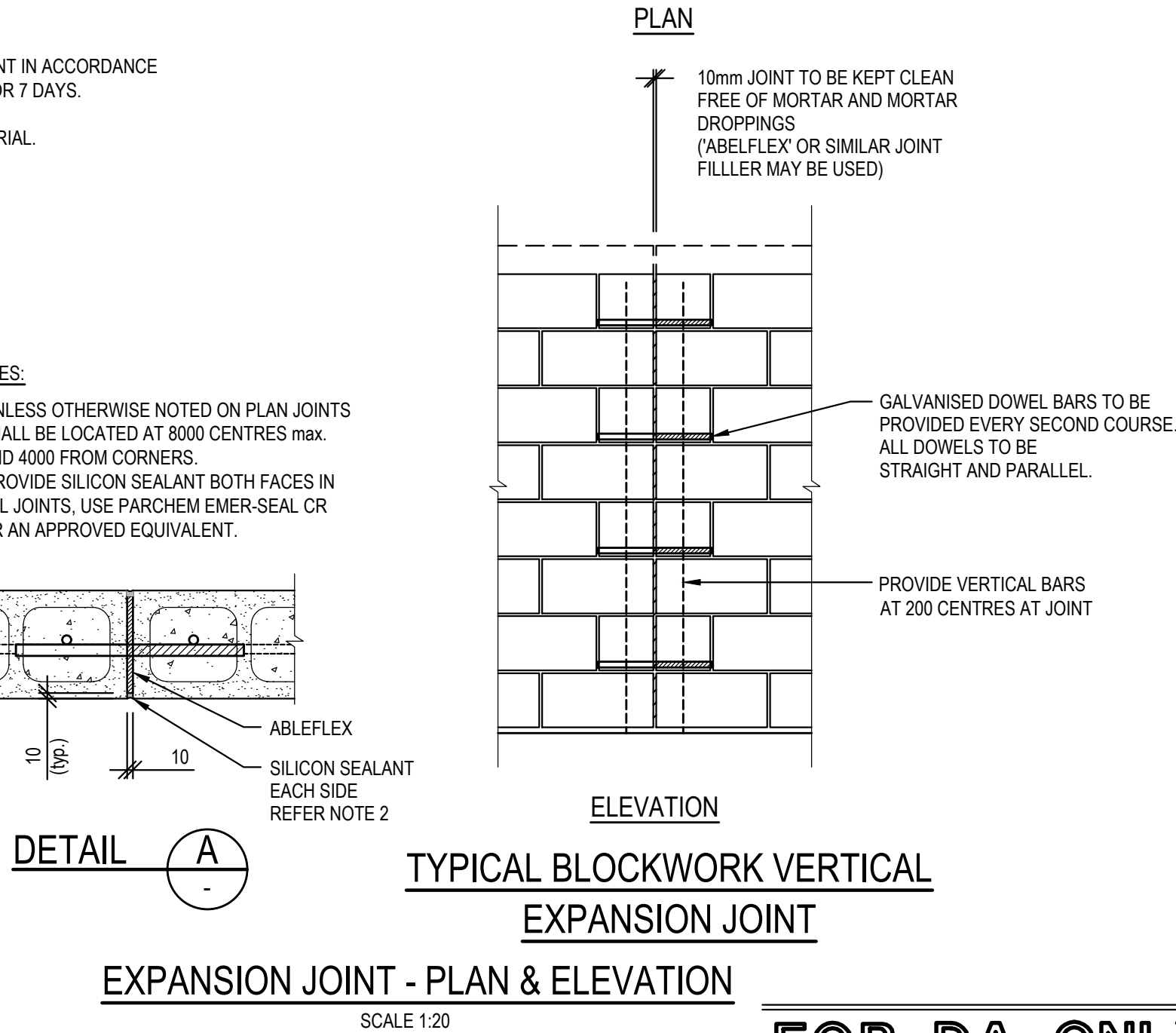
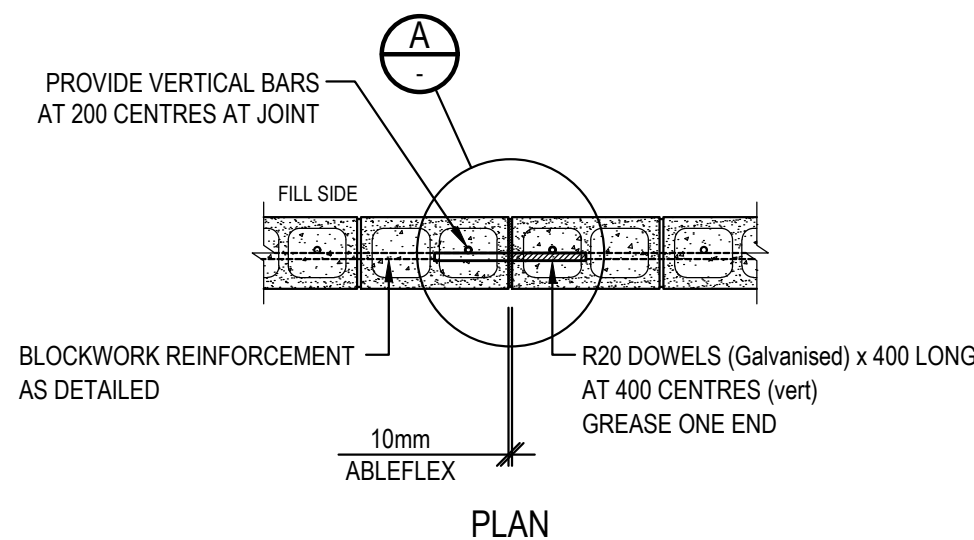
200 OR 300 SERIES BLOCK WALL
15.0 kPa SURCHARGE

RETAINING WALL SCHEDULE					
TOTAL HEIGHT 'H' (mm)	HEIGHT OF BLOCK TYPE		'B' (mm)	'V' & 'X' BARS	'K' BARS
	200 SERIES	300 SERIES			
800	800	-	900	N16 AT 400	-
1000	1000	-	1000	N16 AT 400	-
1200	1200	-	1100	N16 AT 400	-
1400	1400	-	1200	N16 AT 400	-
1600	1600	-	1300	N16 AT 400	-
1800	1800	-	1400	N20 AT 400	-
2000	1400	600	1500	N16 AT 400	-
2200	1400	800	1700	N16 AT 400	N16 AT 400
2400	1400	1000	1900	N20 AT 400	N20 AT 400
2600	1400	1200	2200	N20 AT 400	N20 AT 400
2800	1400	1400	2400	N20 AT 400	N20 AT 400
3000	1400	1600	2700	N20 AT 400	N20 AT 400



TYPICAL FOOTING STEP DETAIL
SCALE 1:20

RETAINING WALL SCHEDULE					
TOTAL HEIGHT 'H' (mm)	HEIGHT OF BLOCK TYPE		'B' (mm)	'V' & 'X' BARS	'K' BARS
	200 SERIES	300 SERIES			
800	800	-	800	N16 AT 400	-
1000	1000	-	1200	N16 AT 400	-
1200	1200	-	1500	N16 AT 400	-
1400	1400	-	1700	N16 AT 400	-
1600	1600	-	1900	N16 AT 400	-
1800	1800	-	2200	N20 AT 400	-
2000	1400	600	2400	N16 AT 400	-
2200	1400	800	2700	N16 AT 400	N16 AT 400
2400	1400	1000	3000	N20 AT 400	N20 AT 400
2600	1400	1200	3300	N20 AT 400	N20 AT 400
2800	1400	1400	3500	N20 AT 400	N20 AT 400
3000	1400	1600	3800	N20 AT 400	N20 AT 400



EXPANSION JOINT - PLAN & ELEVATION

SCALE 1:20

FOR DA ONLY

NOTES:

- ENSURE REAR FACE OF RETAINING WALL IS FULLY WATERPROOFED. USE EMER-PROOF ECOFLEX OR APPROVED EQUIVALENT IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION. EG: 2 COATS min. APPLIED IN OPPOSITE DIRECTIONS AND ALLOWED TO CURE FOR 7 DAYS. (TO BE CONFIRMED BY THE ARCHITECT)
- INSTALL FULL HEIGHT DRAINAGE CELL TO REAR OF WALL. USE NYLEX CORDRAIN/18 OR APPROVED EQUIVALENT. AT 1500 CENTRES.
- PROVIDE GEOFABRIC MATERIAL AS SEPARATION BETWEEN GRANULAR BACKFILL (GRAVEL) AND NATURAL BACKFILL MATERIAL. USE BIDIM A24 OR APPROVED EQUIVALENT.
- MINIMUM ALLOWABLE BEARING PRESSURE AT BASE = 150 kPa

MASONRY CONSTRUCTION:

- B1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3700 AND AS NOTED ON THE DRAWINGS.
- B2 BRICK AND BLOCK COMPRESSIVE STRENGTH (f_{uc}) SHALL BE 15 MPa MINIMUM UNO. STRENGTH GRADE SHALL BE CLEARLY INDICATED ON THE DELIVERY DOCKETS.
- B3 JOINT MORTAR SHALL BE OF CLASS M3 WITH 1:1:6 (CEMENT: LIME: SAND) PROPORTIONS BY VOLUME AND COMPLY WITH AS3700. MORTAR JOINTS SHALL BE 10 mm THICK AND HAVE A MAXIMUM TOOLED DEPTH OF 3 mm UNO.
- B4 NON-LOAD BEARING WALLS SHALL BE SEPARATED FROM THE LOAD-BEARING ELEMENTS BY 15 mm THICK 'CANITE' OR EXPANDED POLYSTYRENE UNO AT BOTH HORIZONTAL AND VERTICAL FACES.
- NON-LOAD BEARING WALLS SHALL BE TIED TO THE SOFFITS OF BEAMS OR SLABS OVER BY USING 'MET 4-1' TIES (OR APPROVED EQUIVALENT). AT 800 mm MAX. CENTRES, UNO ON THE DRAWINGS, TO MANUFACTURER'S SPECIFICATIONS
- B5 WHERE CONCRETE SLABS BEAR ON UNREINFORCED MASONRY, INCLUDING CLAY BRICKS, RENDER THE BEARING SURFACE OF THE MASONRY WALL WITH 1:3 (CEMENT: SAND) MORTAR TO ACHIEVE A LEVEL SURFACE AND PLACE A PRE-GREASED METAL SLIP JOINT PROTECTED BY 0.2 mm POLYETHYLENE SHEET TAPED TO THE FORMWORK BEFORE PLACING CONCRETE. SPECIAL DETAILS SUCH AS WATER-PROOFING MAY APPLY FOR ROOF SLABS OR SIMILARLY EXPOSED ELEMENTS.

B6 CONTROL JOINTS

- CONTROL JOINTS SHALL BE PROVIDED IN MASONRY WALLS AS PER THE TABLE BELOW UNLESS CLOSER SPACINGS ARE SPECIFIED ELSEWHERE IN THE DOCUMENTATION.

MASONRY TYPE	LOCATION	JOINT SIZE (mm)	SPACING (m)
CONCRETE MASONRY	- EXTERNAL	10	7.0
	- EXTERNAL (WITH OPENINGS > 900mm IN HEIGHT)	10	5.0
	- INTERNAL (FACE FINISHED)	10	6.0
	- INTERNAL (RENDERED)	10	5.0
LIGHT-WEIGHT MASONRY	- INTERNAL / EXTERNAL	10	6.0
	- CLAY MASONRY	15	6.0*
- PARAPET WALLS		15	4.0

* - FOR REACTIVE 'CLASS M' SITES ONLY. REFER TABLE 4.3 OF AS3700:2011 FOR ARTICULATION JOINTS IN CLAY MASONRY.

- CONTROL JOINTS SHALL BE PLACED AT HALF THE SPECIFIED SPACING FROM A CORNER. PROVIDE JOINTS TO MATCH JOINTS IN THE SUPPORTING STRUCTURE.
- CONTROL JOINTS MUST BE KEPT FREE OF MORTAR AND SEALED WITH A POLYETHYLENE FOAM BACKING ROD SQUEEZED INTO THE GAP AND A GUNNED-IN MASTIC SEALANT. IF THE WALL IS TO BE FIRE-RATED, A FIRE-RATED SEALING SYSTEM WILL BE REQUIRED INSTEAD.

B7 BLOCKWORK

- IN CORE-FILLED BLOCKWORK, EXCESS MORTAR PROTRUDING INTO THE CORES SHALL BE REMOVED BY RODDING AFTER EACH COURSE IS LAID. EVERY CORE FILLED WITH GROUT SHALL HAVE A CLEANOUT BLOCK IN THE BOTTOM COURSE.
- REINFORCEMENT SHALL BE PLACED AND SECURELY TIED IN POSITION AS SHOWN ON THE DRAWINGS. STARTER BARS SHALL BE HELD IN PLACE BY TYING TO HORIZONTAL BARS AT CLEANOUT BLOCKS. PROVIDE COVER TO REINFORCEMENT AS SHOWN IN THE DETAILS.
- CORE FILLING GROUT SHALL BE AS NOTED IN CONCRETE NOTES IN LIFTS NO MORE THAN 1200mm IN HEIGHT.

Element	Slump	Max. Agg. Size	Cement Type	Exposure Classifn.	Min. Conc. Grade (f _c) MPa U.N.O.	Conc. Cover (U.N.O.)
Core Filling Grout	230±30	10	GP	-	20	-

Client
ESR

Architect
SBA ARCHITECTS

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Project

PROPOSED WAREHOUSE DEVELOPMENT
50-52 AIRDS ROAD, MINTO, NSW

Title

RETAINING WALL DETAILS

Drawn

A.Fernandes

Checked

L.Villa

Drawing number

230541_DA_C310

Designed

L.Villa

Approved

A.Fernandes

Revision

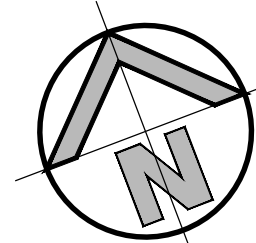
AS NOTED

02



SCALE 1:20

SURVEY INFORMATION
SURVEYED BY LANDPARTNERS
DATUM: AHD
ORIGIN OF LEVELS: PM5452, RL42.876



INDICATIVE LOCATION
OF SEDIMENT BASIN,
REFER SE02 FOR
DETAILS

PROPOSED SHAKER GRID
WITH STABILISED
VEHICLE SHAKER

PROPOSED SEDIMENT
FENCE

AIRDS ROAD

(TO MINTO)

RAILWAY

(FROM LEUMEAH)

PROPOSED CATCH
DIVERSION DRAIN

PROPOSED HAYBALE
GROUP

PROPOSED TRAFFIC
MANOEUVRING

PROPOSED SEDIMENT
FENCE

PROPOSED SEDIMENT
FENCE

PROPOSED STOCKPILE
LOCATION

PROPOSED GEOTEXTILE
INLET FILTER

PROPOSED MESH AND
GRAVEL INLET FILTER

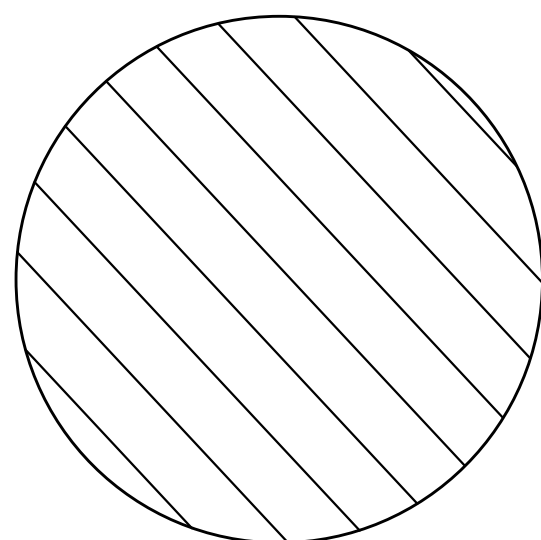
PROPOSED HAYBALE
GROUP

SEDIMENT AND EROSION CONTROL PLAN

SCALE: 1:500

LEGEND

- EXISTING BOUNDARY
- PROPOSED SEDIMENTATION FENCE
- TM TM PROPOSED TRAFFIC MANOEUVRING
- CD CD PROPOSED CATCH DIVERSION DRAIN



PROPOSED STOCKPILE LOCATION



PROPOSED VEHICLE SHAKER GRID



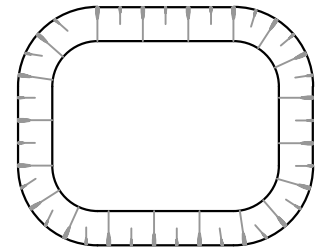
PROPOSED STABILISED SITE ACCESS



PROPOSED MESH AND GRAVEL INLET FILTER



PROPOSED GEOTEXTILE INLET FILTER



PROPOSED SEDIMENT BASIN



PROPOSED HAYBALE GROUP

SEDIMENT & EROSION CONTROL NOTES

- ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH CAMPBELLTOWN CITY COUNCIL'S SPECIFICATIONS AND LANDCOM'S "SOIL AND CONSTRUCTION" MANUAL.
- ALL PERIMETER & SILTATION CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN EARTH WORKS AND/OR CLEARING.
- THE SEDIMENT & EROSION CONTROL PLAN MAY REQUIRE FUTURE ADJUSTMENT TO REFLECT CONSTRUCTION STAGING. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO PREPARE THEIR OWN SEDIMENT AND EROSION CONTROL PLAN WHICH SUITS THE DESIGNED CONSTRUCTION STAGING.
- FILTRATION BUFFER ZONES ARE TO BE FENCED OFF AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
- ALL TEMPORARY EARTH BERMS, DIVERSIONS & SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED & MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
- ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING. TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE LOCATION.
- ALL TOPSOIL IS TO BE STOCKPILED ON SITE FOR REUSE (AWAY FROM TREES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
- ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO SEAL THE EARTHWORKS.
- ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND STRAW MULCHED WITHIN 14 DAYS OF COMPLETION OF FORMATION U.N.O. BY LANDSCAPE ARCHITECTS.
- UPON COMPLETION OF ALL EARTHWORKS OR AS DIRECTED BY COUNCIL SOIL CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.
- EROSION AND SILT PROTECTION MEASURES ARE TO BE MAINTAINED AT ALL TIMES.

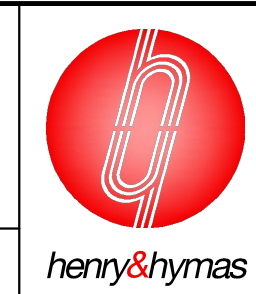
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**SURVEY
INFORMATION**
SURVEYED BY LANDPARTNERS
DATUM: AHD
ORIGIN OF LEVELS: PM52452, RL42.876

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
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01	ISSUED FOR PRELIMINARY	AFe	LV	08.12.2023					

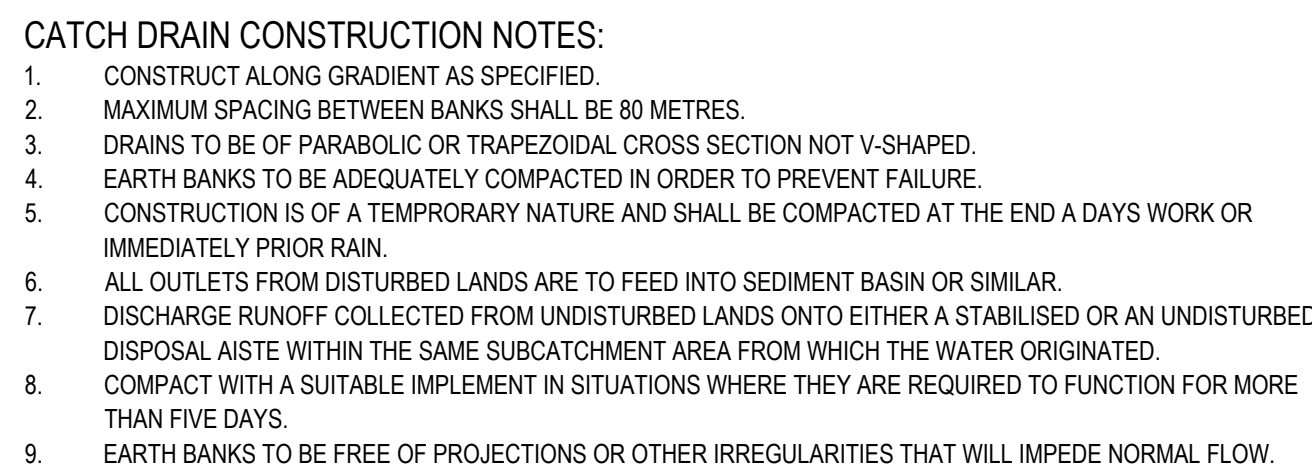
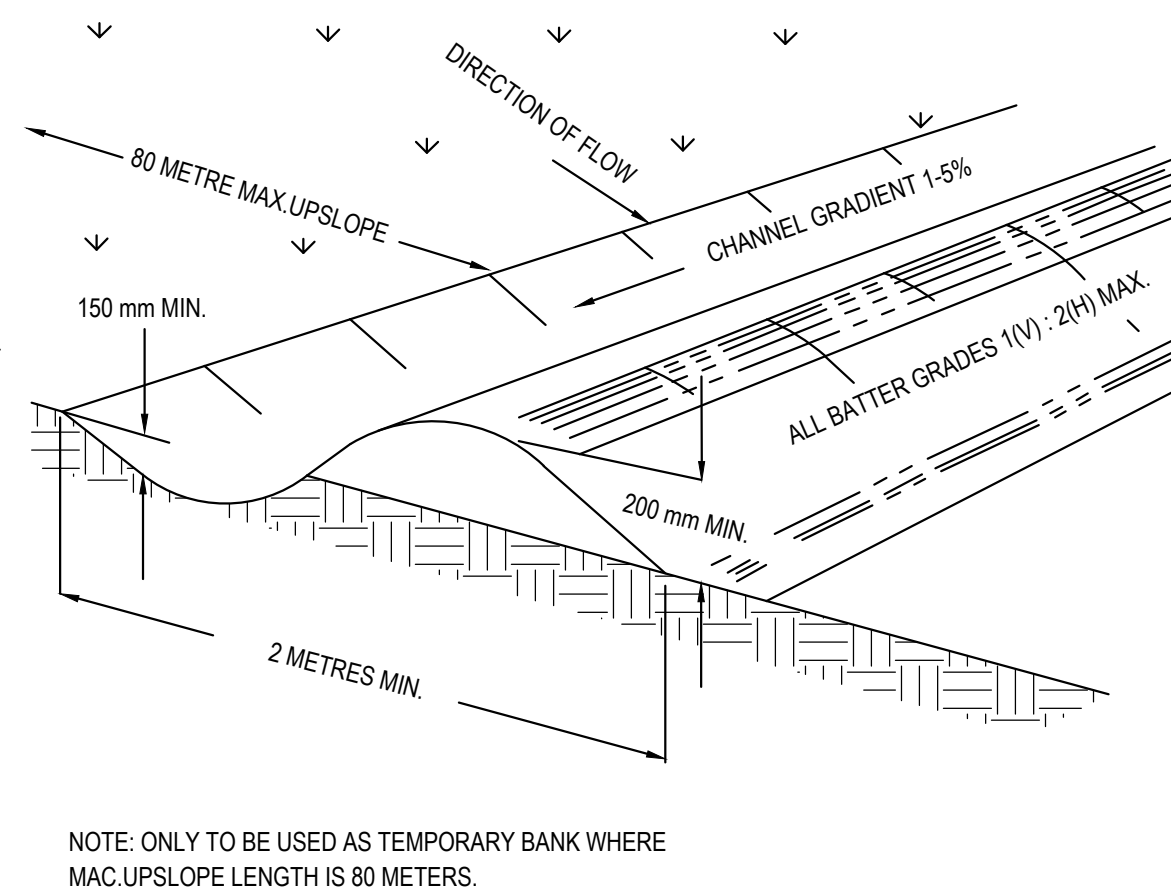
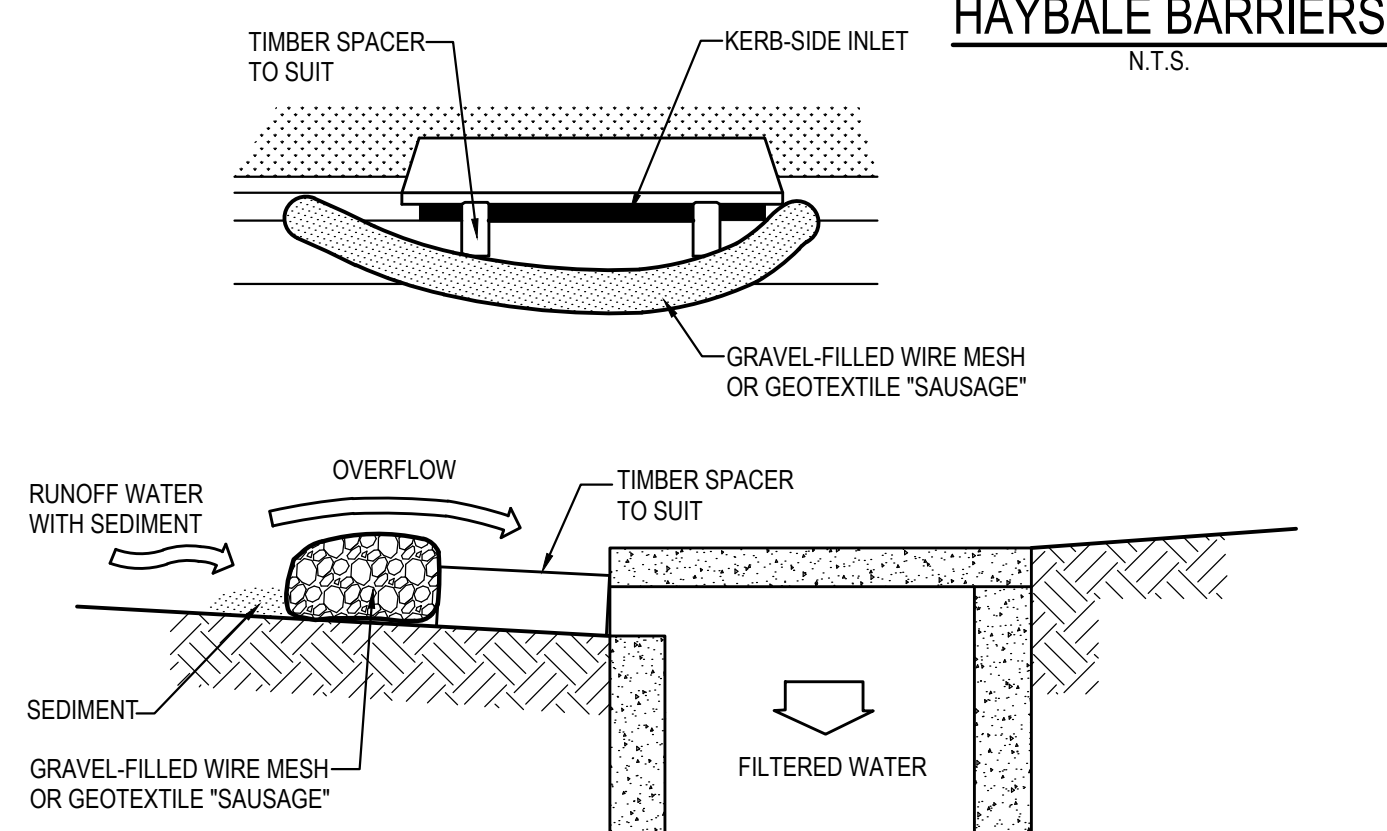
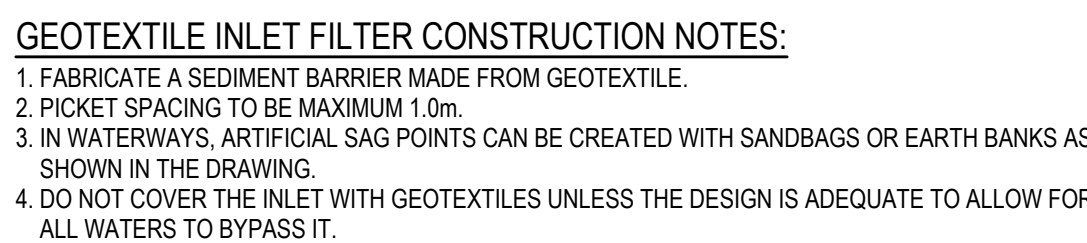
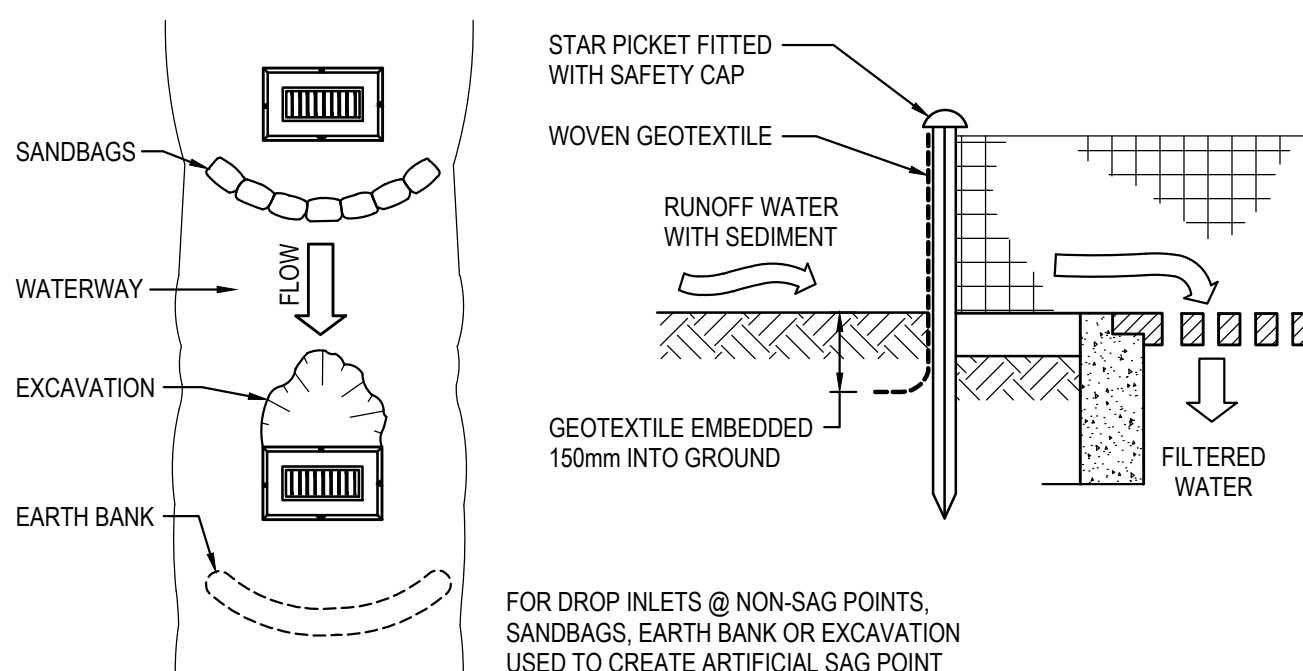
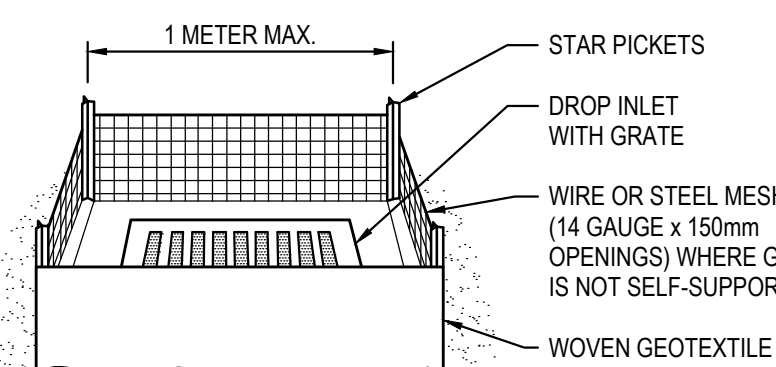
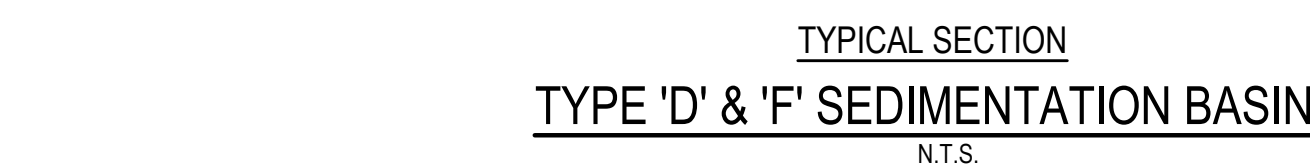
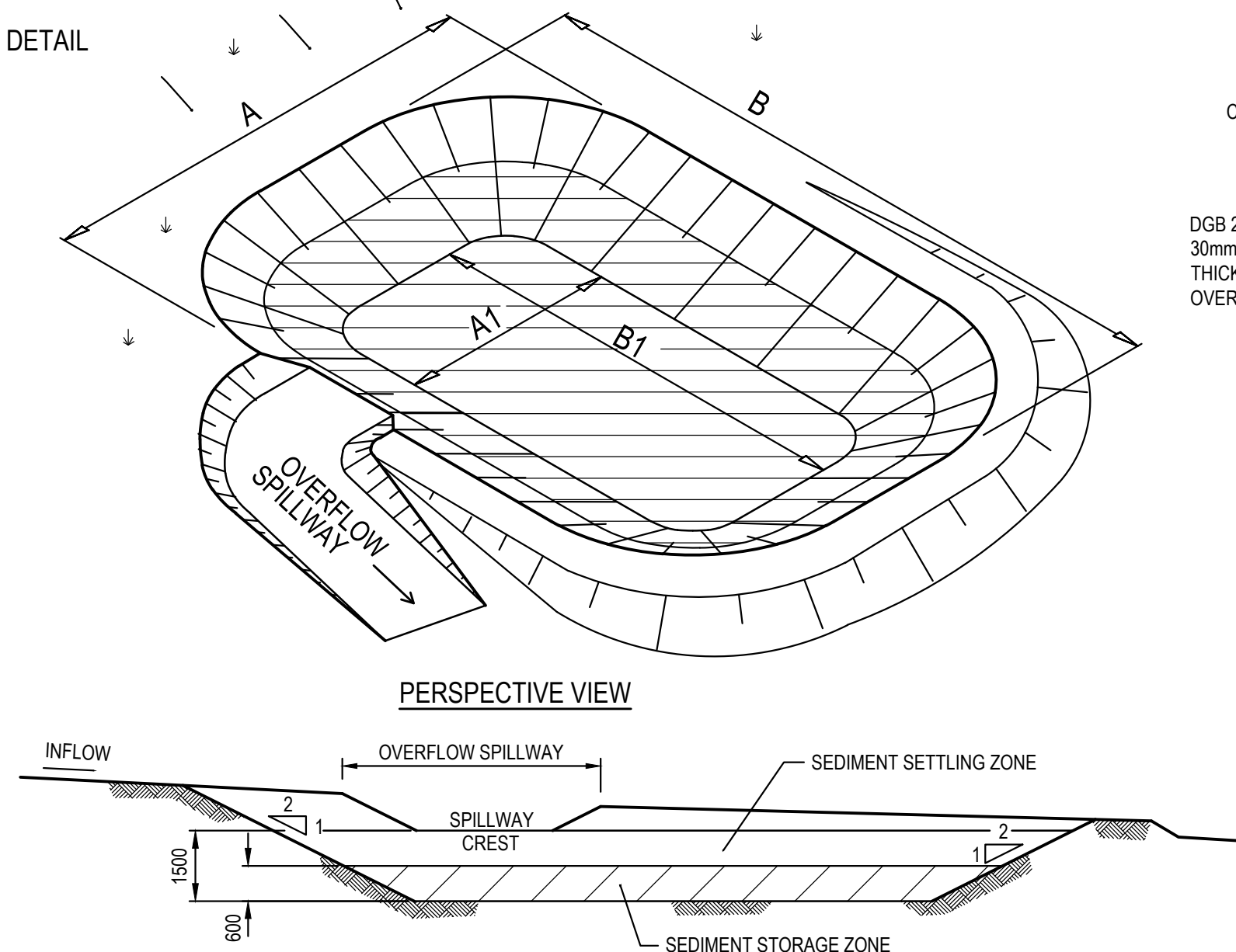
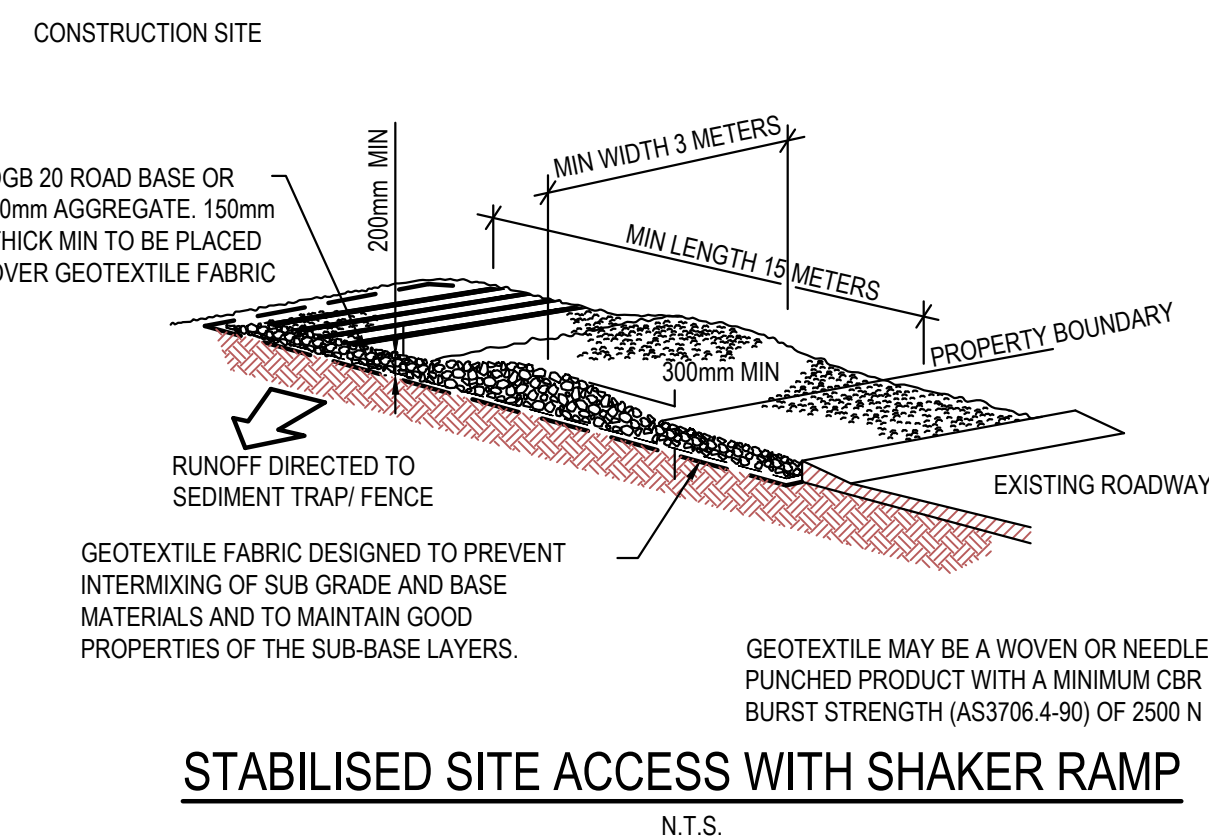
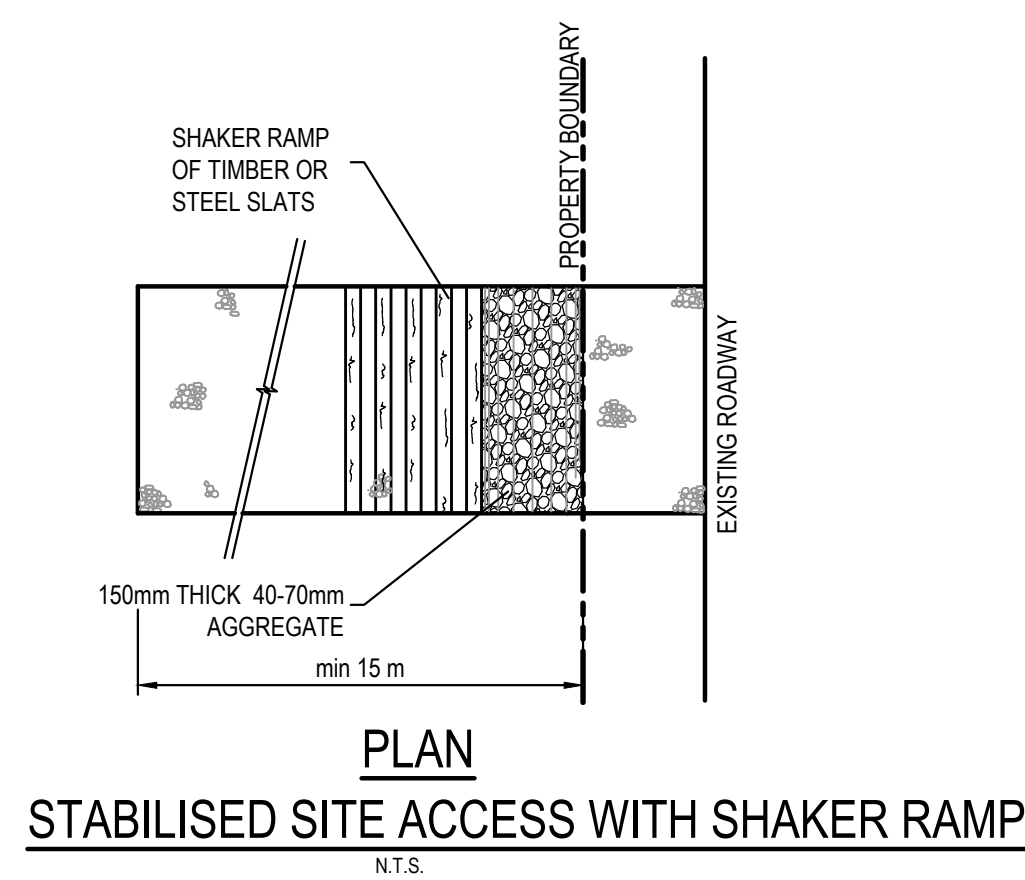
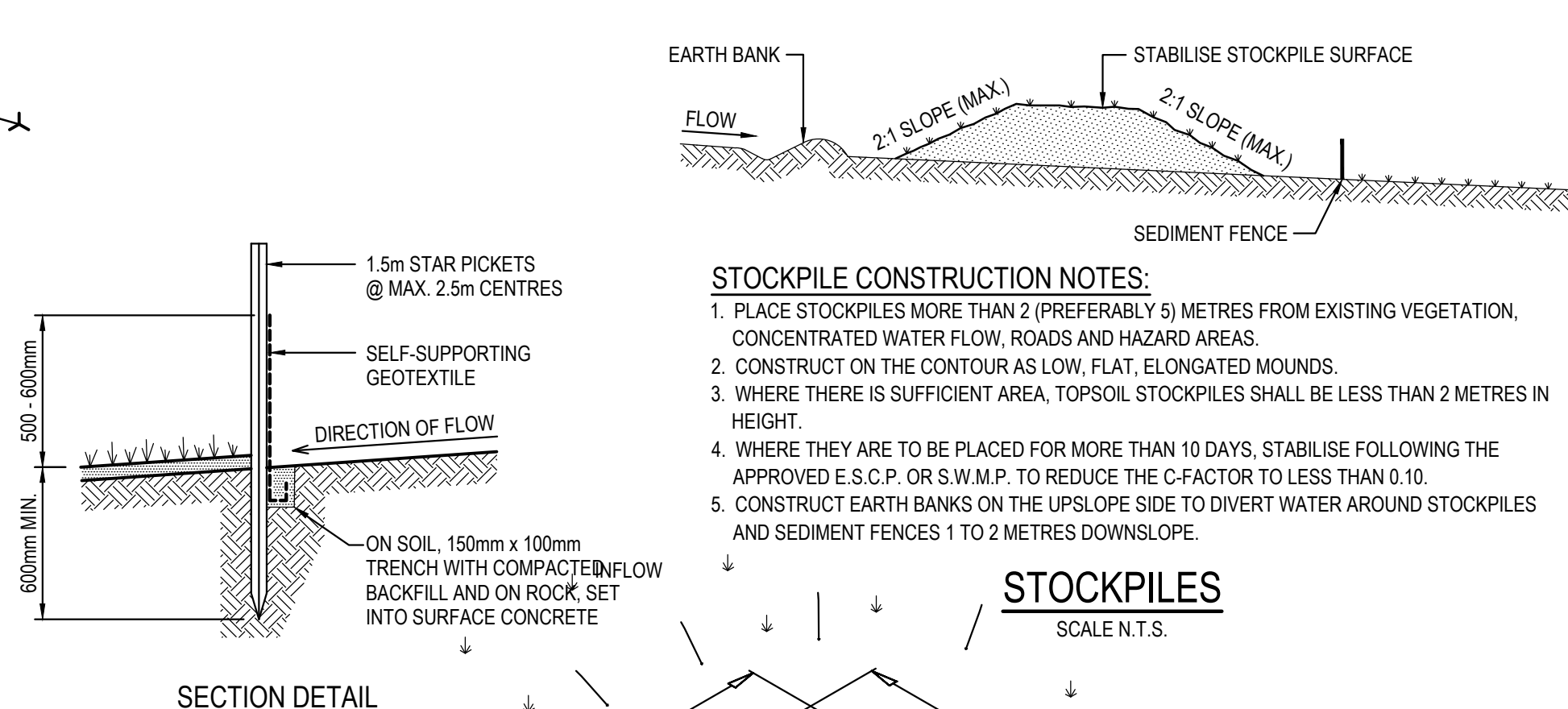
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DRAWING TO BE PRINTED IN COLOUR



Project
**PROPOSED WAREHOUSE DEVELOPMENT
50-52 AIRDS ROAD, MINTO, NSW**
Title
SEDIMENT AND EROSION CONTROL PLAN

Drawn M.Pereira	Designed L.Villa	Original issue date JUNE
Checked L.Villa	Approved A.Francis	Scale (B1) 1:500
Drawing number 230541_DA_SE01		Revision 02



1. THE SEDIMENT BASIN SHALL BE CONSTRUCTED ON A RATE PER HECTARE BASIS AND HAS BEEN IN ACCORDANCE WITH THE REQUIREMENTS OF THE LANDCOM MANUAL "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION", FOR SEDIMENTATION TYPE D SOILS. THE DISTURBED AREA WITHIN THIS CATCHMENT AT ANY ONE TIME SHOULD BE LIMITED TO AN AREA FOR WHICH EACH SEDIMENT BASIN CAN HANDLE. EACH BASIN SHALL BE SIZED IN ACCORDANCE WITH THE TABLE BELOW.

SEDIMENT BASIN SIZING TYPE D SOILS	
VOLUMETRIC RUNOFF COEFFICIENT, CV	0.50 (APPENDIX F - TABLE F2)
75TH PERCENTILE 5 DAY TOTAL RAINFALL DEPTH, R	30.6 mm
CATCHMENT AREA, A	1 Ha (UNIT AREA)
SETTLING ZONE VOLUME (PER HECTARE) 10 CV A R	153 m³
DISTURBED CATCHMENT AREA	1 Ha (UNIT AREA)
R K L S P C	32.11m²
SEDIMENT ZONE VOLUME (0.17 A (R K L S P C)/1.3	4.2m³ < 50% SETTLING VOL
TOTAL SEDIMENT BASIN VOLUME REQUIRED :	229.5 m³/Ha

CONSTRAINT	VALUE	(SOURCE)*
RAINFALL EROSIVITY (R-FACTOR)	2500	APPENDIX B
LENGTH/SLOPE GRADIENT FACTOR, LS	0.26	APPENDIX A - TABLE A1
SOIL ERODIBILITY (K-FACTOR)	0.038	TABLE C20
EROSION CONTROL PRACTICE FACTOR (P-FACTOR)	1.3 (COMPACTED)	APPENDIX A - TABLE A2
COVER FACTOR (C-FACTOR)	1.0 (DURING EARTHWORKS)	APPENDIX A - FIGURE A5
CALCULATED SOIL LOSS, A (RUSLE EQUATION)	32.11t/ha/YR	A = R K L S P C
SOIL HYDROLOGIC GROUP	GROUP C	APPENDIX C TABLE 20
SEDIMENT TYPE	TYPE D	APPENDIX C TABLE 4
75TH PERCENTILE 5-DAY RAINFALL EVENT	30.6mm	TABLE 6.3A

1. THE CAPTURED STORMWATER IN THE SETTLING ZONE SHOULD BE DRAINED TO MEET THE MINIMUM STORAGE CAPACITY REQUIRED WITHIN A FIVE (5) DAY PERIOD FOLLOWING RAINFALL, PROVIDED THE ACCEPTABLE WATER QUALITY (NFR) AND TURBIDITY HAVE BEEN ACHIEVED.
2. CHEMICAL FLOCCULENT SUCH AS GYPSUM MAY BE DOSED TO AID SETTLING WITHIN 24 HOURS OF CONCLUSION OF EACH STORM. THE APPLIED DOSING RATES SHOULD ACHIEVE THE TARGET QUALITY WITHIN 36 TO 72 HOURS OF THE STORM EVENT.
3. INSPECT THE SEDIMENT BASINS AFTER EACH RAINFALL EVENT AND/OR WEEKLY. ENSURE THAT ALL SEDIMENT IS REMOVED ONCE THE SEDIMENT STORAGE ZONE IS FULL (REFER TO PEGS INSTALLED IN BASINS IN ACCORDANCE WITH THE SWMP). ENSURE THAT OUTLET AND EMERGENCY SPILLWAY WORKS ARE MAINTAINED IN A FULLY OPERATIONAL CONDITION AT ALL TIMES.

SOWING SEASON	SEED MIX
AUTUMN/WINTER	OATS@40KG/Ha + JAPANESE MILLET@10kg/Ha
SPRING/SUMMER	OATS@20kg/Ha + JAPANESE MILLET@20kg/Ha

NOTE : THESE PLANT SPECIES ARE FOR TEMPORARY REVEGETATION ONLY. THEY WILL ONLY PROVIDE PROTECTION FROM EROSION FOR SIX MONTHS. WHERE THE LOTS ARE TO BE LEFT UNDEVELOPED FOR A LONGER PERIOD, THE CONTRACTOR SHALL SEEK ADVICE FROM THE SITE SUPERINTENDENT AS TO MORE APPROPRIATE REVEGETATION METHODS.

REVEGETATION IN ACCORDANCE WITH THE ABOVE TABLE WILL BE ENHANCED BY ADDING LIME AT A RATE OF 4kg/TONNE OF TOPSOIL AND 7.5kg/TONNE OF SUBSOIL.

4. THE LONG TERM GROUND COVER FACTORS FOR THE CONSTRUCTION WORKS IS NOT TO EXCEED THE FOLLOWING LIMITS

LAND	MAXIMUM C-FACTOR	REMARKS
WATERWAYS AND OTHER AREAS OF CONCENTRATED FLOWS, POST CONSTRUCTION	0.05	APPLIES AFTER TEN WORKING DAYS OF COMPLETION OF FORMATION AND BEFORE CONCENTRATED FLOWS ARE APPLIED. FOOT AND VEHICULAR TRAFFIC IS PROHIBITED IN THIS AREA AND 70% GROUND COVER IS REQUIRED.
STOCKPILES, POST CONSTRUCTION	0.10	APPLIES AFTER TEN WORKING DAYS FROM COMPLETION OF FORMATION. 60% GROUND COVER IS REQUIRED.
ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION.	0.15	APPLIES AFTER 20 DAYS OF INACTIVITY, EVEN THOUGH WORKS MAY BE INCOMPLETE. 50% GROUND COVER IS REQUIRED.

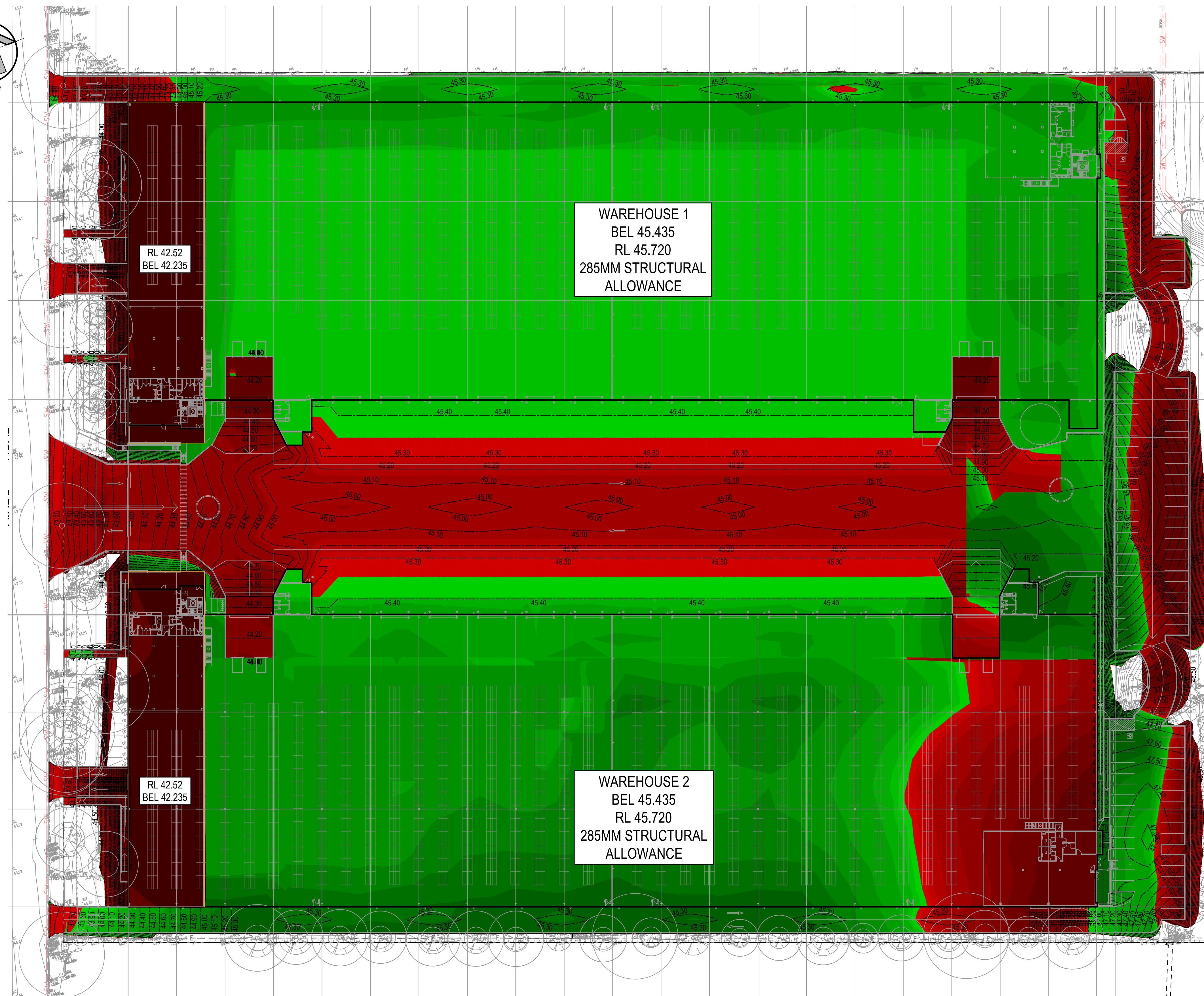
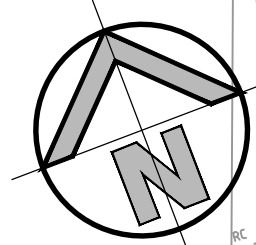
1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
3. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN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

SCALE N.T.S.

SCALE N.T.S

SCALE N.T.S.

SURVEY INFORMATION SURVEYED BY LANDPARTNERS DATUM: AHD ORIGIN OF LEVELS: PM52452, RL42.876										Client ESR Suite 2.01 628 Pacific Highway Gordon NSW 2072 Architect SBA ARCHITECTS This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.										Suite 2.01 628 Pacific Highway Gordon NSW 2072 Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email esr@hkhconsult.com.au Web www.henryandhymas.com.au  henry&hymas Project PROPOSED WAREHOUSE DEVELOPMENT 50-52 AIRDS ROAD, MINTO, NSW Original issue date NOV. 2023 Drawn M.Pereira Designed L.Villa Checked L.Villa Approved A.Francis Scale @A1 NTS										Drawing number 230541_DA_SE02 Revised C									
02 ISSUED FOR DA ONLY AFe LV 18.12.2023										01 ISSUED FOR PRELIMINARY AFe LV 08.12.2023																													
REVISION AMENDMENT DRAWN DESIGNED DATE REVISION AMENDMENT DRAWN DESIGNED DATE																				DRAWING TO BE PRINTED IN COLOUR																			



LEGEND

DEPTH OF CUT & FILL RANGE			COLOUR
LOWER VALUE	UPPER VALUE		
-4.00	to -2.00	m	
-2.00	to -1.00	m	
-1.00	to -0.80	m	
-0.80	to -0.60	m	
-0.60	to -0.40	m	
-0.40	to -0.20	m	
-0.20	to -0.10	m	
-0.10	to -0.05	m	
-0.05	to 0.00	m	
0.00	to 0.05	m	
0.05	to 0.10	m	
0.10	to 0.20	m	
0.20	to 0.40	m	
0.40	to 0.60	m	
0.60	to 0.80	m	
0.80	to 1.00	m	
1.00	to 2.00	m	
2.00	to 4.00	m	

LEGEND

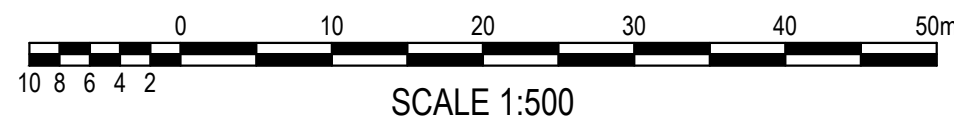
58.00 CONTOURS BE

BULK EARTHWORKS QUANTITIES

TOTAL AREA (51244m²)	
CUT	13145 m³
FILL	12351 m³
EXCESS OF CUT OVER FILL	794 m³
EXCAVATION FOR RETAINING WALLS NOT INCLUDED IN CALCULATION	
EXCAVATION FOR SERVICE TRENCHES NOT INCLUDED IN CALCULATION	
VOLUME HAS BEEN CALCULATED AFTER STRIPPING THE SITE OF TOPSOIL AND EXISTING SLABS - ASSUMED DEPTH 250mm. STRIPPED MATERIAL NOT INCLUDED IN ABOVE QUANTITIES	
ASSUMED 285mm PAVEMENT SET DOWN	

BULK EARTHWORKS CUT AND FILL PLAN

SCALE: 1:500



FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LANDPARTNERS
DATUM: AHD
ORIGIN OF LEVELS: PMS4252, RL42.876

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR DA	JK	NW	03.07.2024					
03	ISSUED FOR DA	AFe	LV	19.12.2023					
02	ISSUED FOR PRELIMINARY	AFe	LV	08.12.2023					
01	ISSUED FOR PRELIMINARY	MP	LV	05.12.2023					

Client
ESR
Architect
SBA ARCHITECTS

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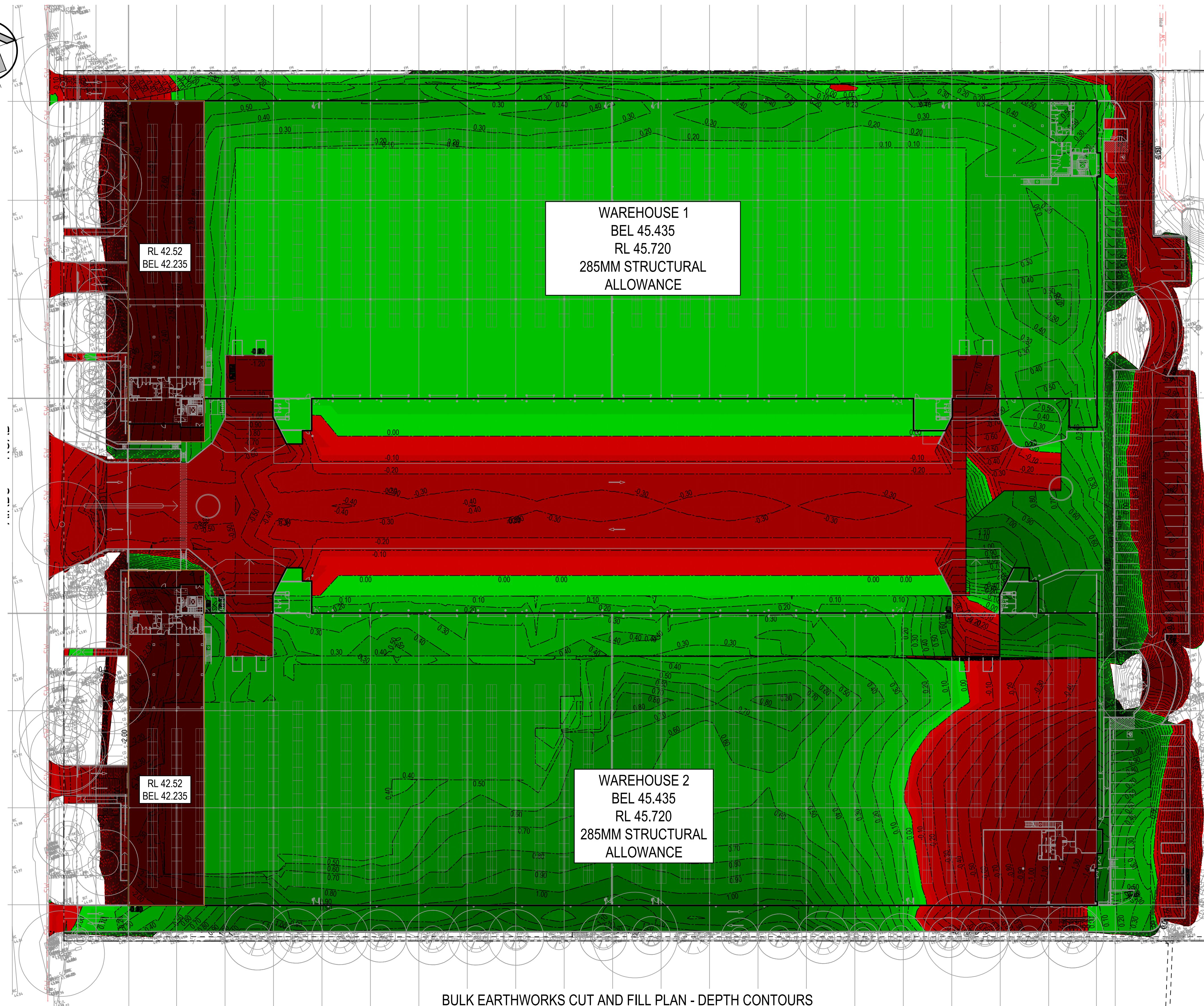
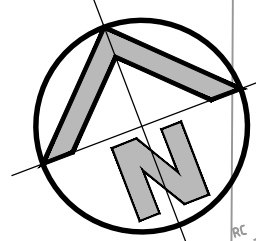
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Web
www.henryandhymas.com.au



Project
**PROPOSED WAREHOUSE DEVELOPMENT
50-52 AIRDS ROAD, MINTO, NSW**
Title
**BULK EARTHWORKS CUT AND FILL PLAN
BULK LEVEL**

Drawn
M.Pereira
Designed
L.Villa
Approved
A.Francis
Scale (BA)
1:500
Drawing number
230541_DA_BE01
Revision
04



BULK EARTHWORKS CUT AND FILL PLAN - DEPTH CONTOURS
SCALE: 1:500

LEGEND

DEPTH OF CUT & FILL RANGE				COLOUR
LOWER VALUE		UPPER VALUE		
-4.00	to	-2.00	m	
-2.00	to	-1.00	m	
-1.00	to	-0.80	m	
-0.80	to	-0.60	m	
-0.60	to	-0.40	m	
-0.40	to	-0.20	m	
-0.20	to	-0.10	m	
-0.10	to	-0.05	m	
-0.05	to	0.00	m	
0.00	to	0.05	m	
0.05	to	0.10	m	
0.10	to	0.20	m	
0.20	to	0.40	m	
0.40	to	0.60	m	
0.60	to	0.80	m	
0.80	to	1.00	m	
1.00	to	2.00	m	
2.00	to	4.00	m	

LEGEND

--- -1.00 --- CONTOURS BE DEPTH

BULK EARTHWORKS QUANTITIES

TOTAL AREA (51244m²)

CUT	13145	m ³
FILL	12351	m ³
EXCESS OF CUT OVER FILL	794	m ³
EXCAVATION FOR RETAINING WALLS NOT INCLUDED IN CALCULATION		
EXCAVATION FOR SERVICE TRENCHES NOT INCLUDED IN CALCULATION		
VOLUME HAS BEEN CALCULATED AFTER STRIPPING THE SITE OF TOPSOIL AND EXISTING SLABS - ASSUMED DEPTH 250mm. STRIPPED MATERIAL NOT INCLUDED IN ABOVE QUANTITIES		
ASSUMED 285mm PAVEMENT SET DOWN		

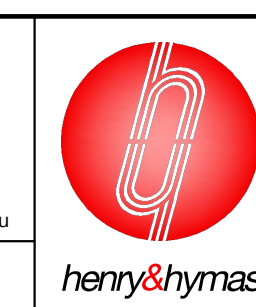
FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LANDPARTNERS
DATUM: AHD
ORIGIN OF LEVELS: PMS452, RL42.876

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR DA	JK	NW	03.07.2024					
03	ISSUED FOR DA	AFe	LV	19.12.2023					
02	ISSUED FOR PRELIMINARY	AFe	LV	08.12.2023					
01	ISSUED FOR PRELIMINARY	MP	LV	05.12.2023					

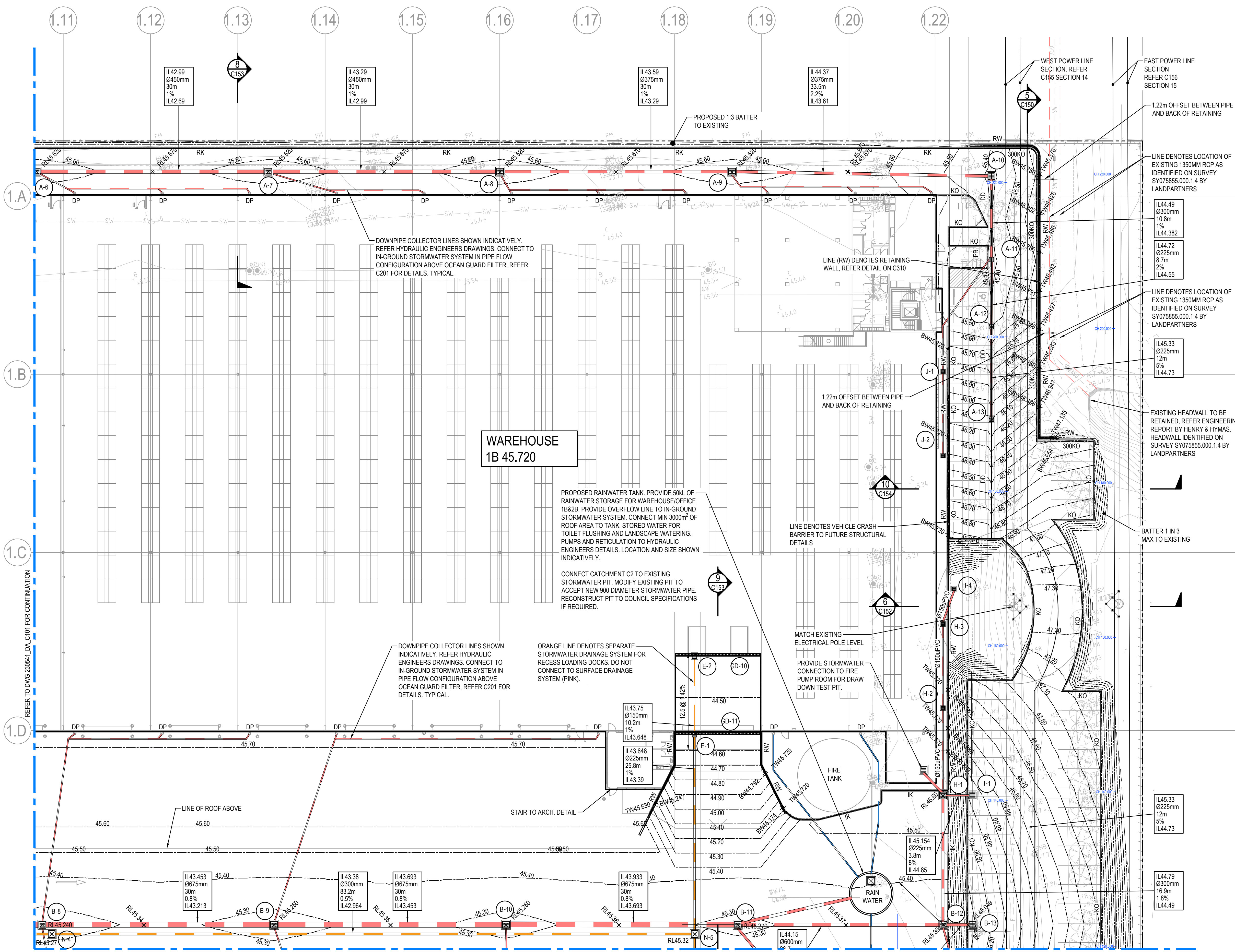
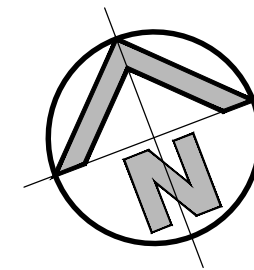
Client
ESR
Architect
SBA ARCHITECTS
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Web
www.henryhymas.com.au
DRAWING TO BE PRINTED IN COLOUR



Project
**PROPOSED WAREHOUSE DEVELOPMENT
50-52 AIRDS ROAD, MINTO, NSW**
Title
**BULK EARTHWORKS CUT AND FILL PLAN
DEPTH CONTOURS**

Drawn M.Pereira	Designed L.Villa	Original issue date JUNE
Checked L.Villa	Approved A.Francis	Scale (BA) 1:500
Drawing number 230541_DA_BE02		Revision 04

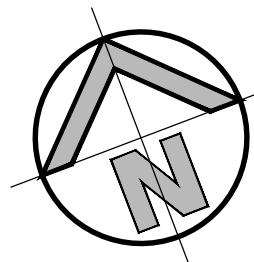


DETAIL PLAN
SCALE: 1:250

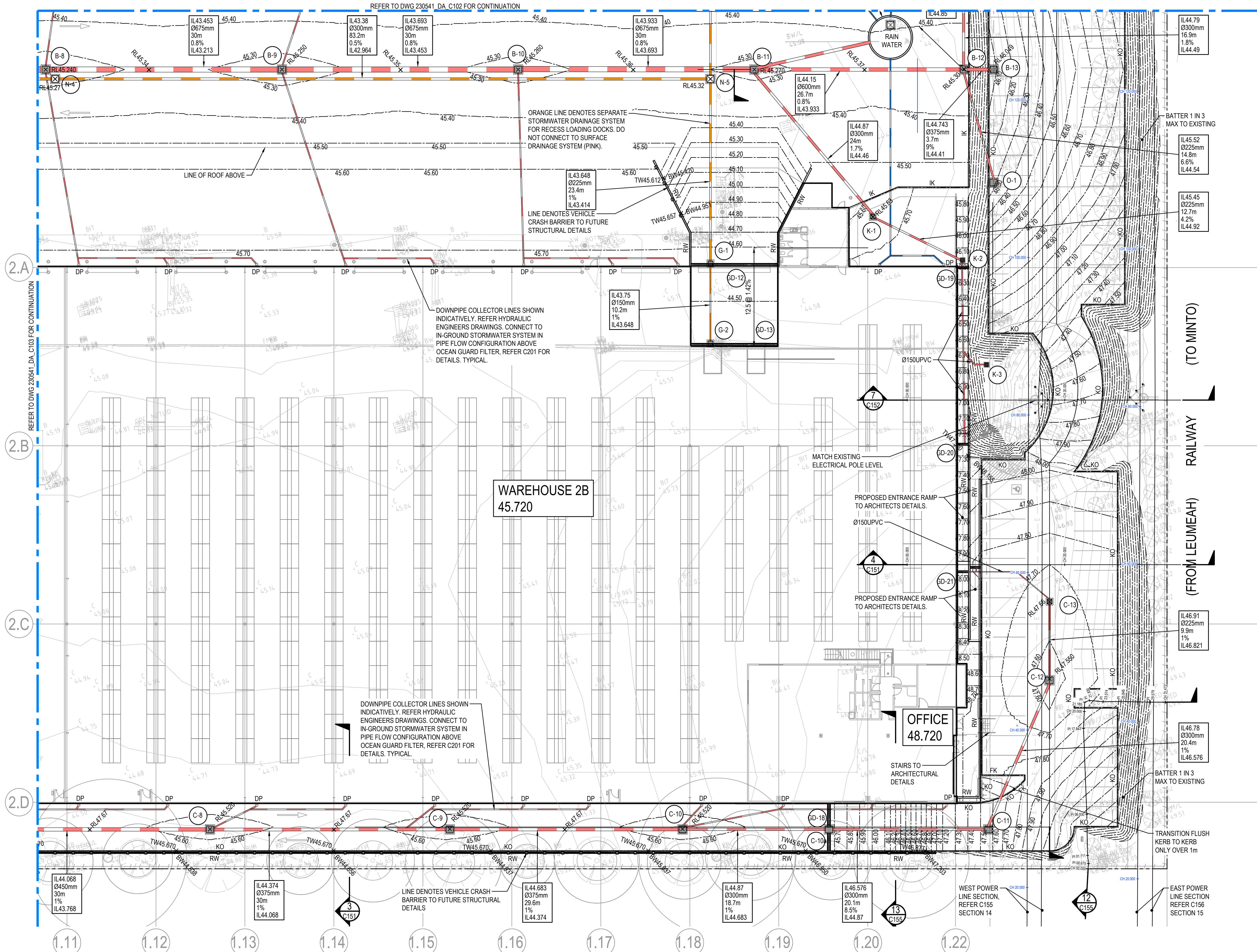
- IMPORTANT NOTES:**
- TW & BW DENOTE THE SURFACE LEVEL AT THE TOP AND BOTTOM OF RETAINING LEVEL NOT THE TOP OF WALL LEVEL. REFER TO PROJECT ARCHITECT FOR TOP OF WALL LEVELS AND RETAINING WALL SETOUT.
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 - RW SUBSOILS, SUBSOIL LINES BEHIND KERBS AND SUBSOIL LINES FOR VEGETATED SWALE DRAINS NOT SHOWN FOR CLARITY, REFER TO DETAILS ON C201.
 - CIVIL ENGINEERING DESIGN DRAWINGS (THESE DRAWINGS) TO BE REVIEWED IN CONJUNCTION WITH HYDRAULIC ENGINEERING DRAWINGS CIVIL ENGINEERING DRAWINGS DETAIL THE EXTERNAL DRAINAGE ONLY, HYDRAULIC DRAWINGS DETAIL ROOF DRAINAGE, CONNECTION FROM DOWNPIPES TO EXTERNAL PITS AND INTERNAL BUILDING DRAINAGE.

FOR DA ONLY

SURVEY INFORMATION SURVEYED BY LANDPARTNERS DATUM: AHD ORIGIN OF LEVELS: PM52452, RL42.876	07	ISSUED FOR DA ONLY	MB	LV	07.06.2024																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												</
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REFER TO DWG 230541_DA_C102 FOR CONTINUATION



WAREHOUSE 2B
45.720

OFFICE
48.720

DETAIL PLAN

SCALE: 1:250

IMPORTANT NOTES:

- TW & BW DENOTE THE SURFACE LEVEL AT THE TOP AND BOTTOM OF RETAINING LEVEL NOT THE TOP OF WALL LEVEL. REFER TO PROJECT ARCHITECT FOR TOP OF WALL LEVELS AND RETAINING WALL SETOUT.
- PIT LOCATIONS SUBJECT TO FINAL COORDINATION.
- RW SUBSOILS, SUBSOIL LINES BEHIND KERBS AND SUBSOIL LINES FOR VEGETATED SWALE DRAINS NOT SHOWN FOR CLARITY, REFER TO DETAILS ON C201.
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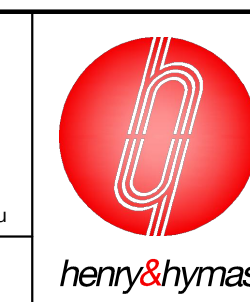
FOR DA ONLY

SURVEY INFORMATION
SURVEYED BY LANDPARTNERS
DATUM: AHD
ORIGIN OF LEVELS: PM52452, RL42.876

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
07	ISSUED FOR DA ONLY	MB	LV	07.06.2024					
06	ISSUED FOR DA ONLY	MB	LV	18.03.2024					
05	ISSUED FOR DA ONLY	IK	NV	31.01.2024					
04	ISSUED FOR DA ONLY	AFe	LV	19.01.2024					
03	ISSUED FOR DA ONLY	AFe	LV	18.12.2023					
02	ISSUED FOR PRELIMINARY	AFe	LV	08.12.2023					
01	ISSUED FOR PRELIMINARY	MP	LV	05.12.2023	08	ISSUED FOR DA ONLY	MP	LV	03.07.2024

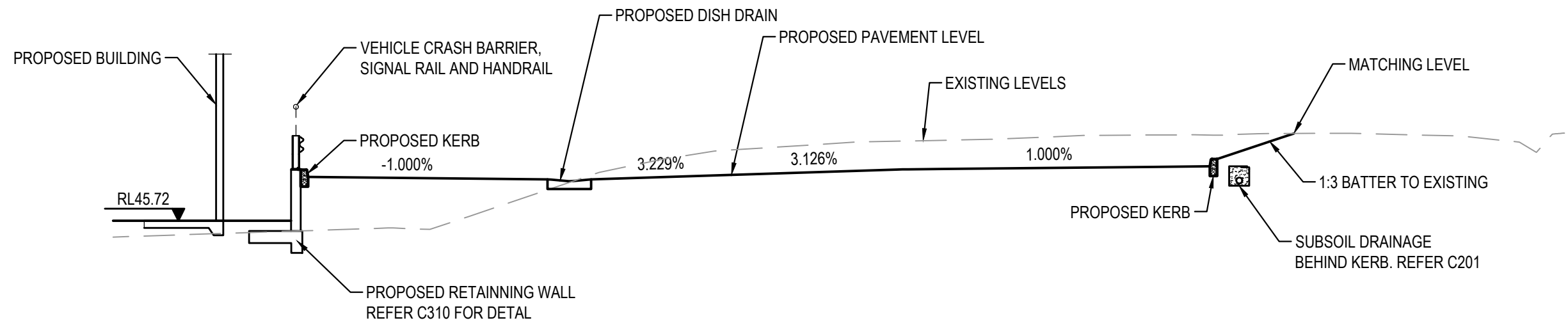
Client
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DRAWING TO BE PRINTED IN COLOUR



Project
**PROPOSED WAREHOUSE DEVELOPMENT
50-52 AIRDS ROAD, MINTO, NSW**
Title
**DETAIL PLAN
SHEET 4 OF 4**

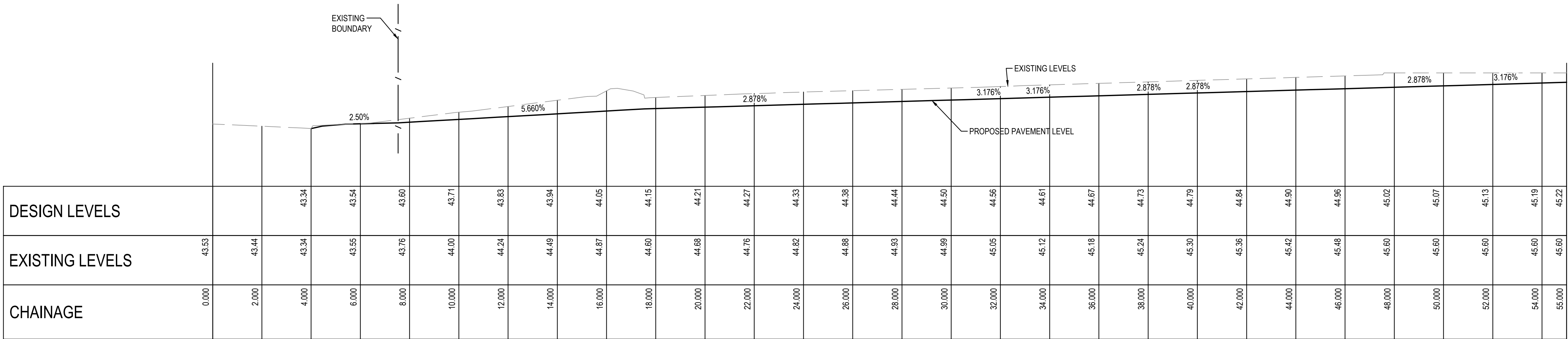
Drawn M.Pereira	Designed L.Villa	Original issue date JUNE
Checked L.Villa	Approved A.Francis	Scale @A1 1:250
Drawing number 230541_DA_C104		Revision 08



CHAINAGE	DESIGN LEVELS		EXISTING LEVELS	
0.000	45.38	45.72	45.45	45.72
2.000				
4.000		46.65	45.51	46.65
6.000		46.60	45.56	46.60
8.000		46.58	46.02	46.58
10.000		46.58	46.70	46.58
12.000		46.64	47.09	46.64
14.000		46.71	47.26	46.71
16.000		46.77	47.36	46.77
18.000		46.80	47.40	46.80
20.000		46.82	47.48	46.82
22.000		46.84	47.49	46.84
24.000		47.39	47.52	47.39
26.000			47.51	
28.000			47.46	
30.000			47.53	

SECTION 10

SCALE 1:100



DESIGN LEVELS			43.34	43.54	43.60	43.71	43.83	43.94	44.05	44.15	44.21	44.27	44.33	44.38	44.44	44.50	44.56	44.61	44.67	44.73	44.79	44.84	44.90	44.96	45.02	45.07	45.13	45.19	45.22
EXISTING LEVELS	43.53	43.44	43.34	43.55	43.76	44.00	44.24	44.49	44.87	44.60	44.68	44.76	44.82	44.88	44.93	44.99	45.05	45.12	45.18	45.24	45.30	45.36	45.42	45.48	45.60	45.60	45.60	45.60	45.60
CHAINAGE	0.000	2.000	4.000	6.000	8.000	10.000	12.000	14.000	16.000	18.000	20.000	22.000	24.000	26.000	28.000	30.000	32.000	34.000	36.000	38.000	40.000	42.000	44.000	46.000	48.000	50.000	52.000	54.000	55.000

SECTION 11

SCALE 1:100



FOR DA ONLY

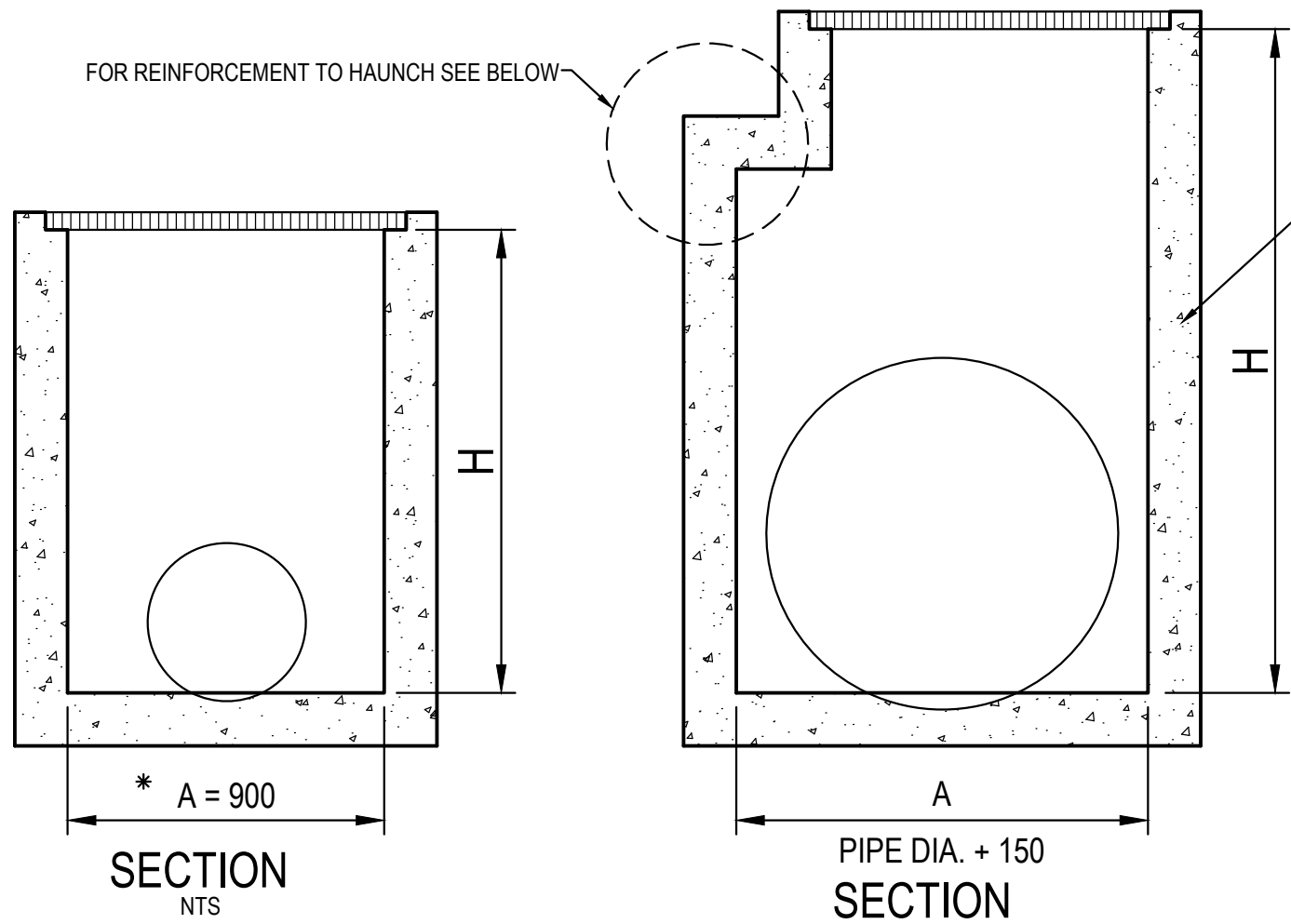
SURVEY INFORMATION SURVEYED BY LANDPARTNERS DATUM: AHD ORIGIN OF LEVELS: PM52452, RL42.876										Client ESR Architect SBA ARCHITECTS This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.										Suite 2.01 828 Pacific Highway Gordon NSW 2072 Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@hhconsult.com.au Web www.henryandhymas.com.au										 henry&hymas										Project PROPOSED WAREHOUSE DEVELOPMENT 50-52 AIRDS ROAD, MINTO, NSW Title SITE SECTIONS SHEET 5 OF 8										Drawn A.Fernandes Checked L.Villa Drawing number 230541_DA_C154			Designed L.Villa Approved A.Francis Scale @A1			Original issue date NOV 2023 1:100 Revision 04		
										04			ISSUED FOR DA ONLY			AFe			LV			03.07.2024																																				
										03			ISSUED FOR DA ONLY			AFe			LV			07.06.2024																																				
										02			ISSUED FOR DA ONLY			AFe			LV			18.12.2023																																				
										01			ISSUED FOR PRELIMINARY			AFe			LV			08.12.2023																																				
REVISION			AMENDMENT			DRAWN			DESIGNED			DATE			REVISION			AMENDMENT			DRAWN			DESIGNED			DATE																															

TYPICAL PIT CHAMBER SIZES

IT IS THE CONTRACTORS RESPONSIBILITY TO SELECT PIT CHAMBER SIZE WITH REGARDS TO PIPE SIZE, DEPTH TO INVERT AND SKEW ANGLE. REFER SKETCHES BELOW.

- 1 SELECT PIT CHAMBER USING THE STEPS BELOW.
- 2 SELECT PIT CHAMBER SIZE DEPENDING ON THE PIPE DIAMETERS.
- 3 CHECK PIT CHAMBER SIZE TO SATISFY DEPTH TO INVERT REQUIREMENTS.
- CHECK PIT CHAMBER DIMENSIONS TO SATISFY THE SKEW ANGLE IN THE TABLE.

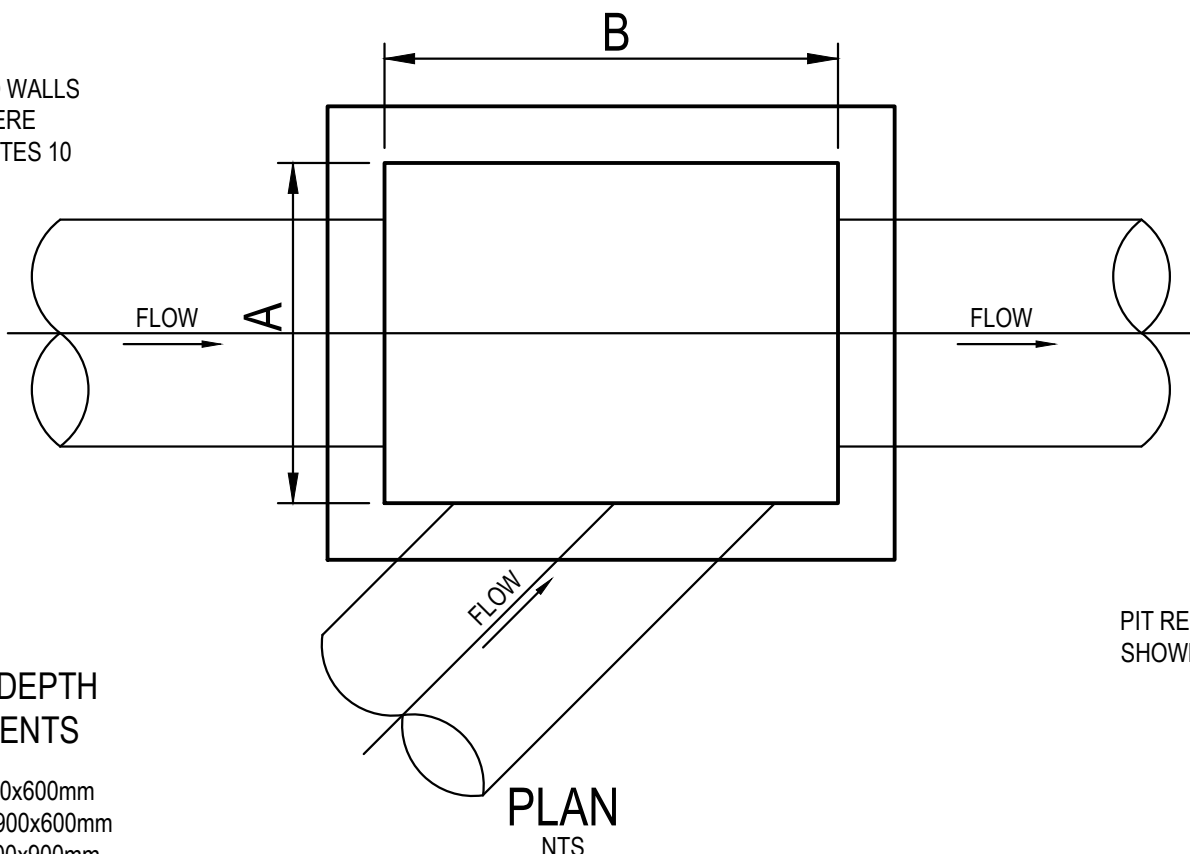
FOR B = 600mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 225mm
FOR B = 900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 375mm
FOR B = 1200mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 600mm
FOR B = 1500mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 825mm
FOR B = 1900mm - MAX. SIDE ENTRY PIPE AT 45° SKEW = 1050mm



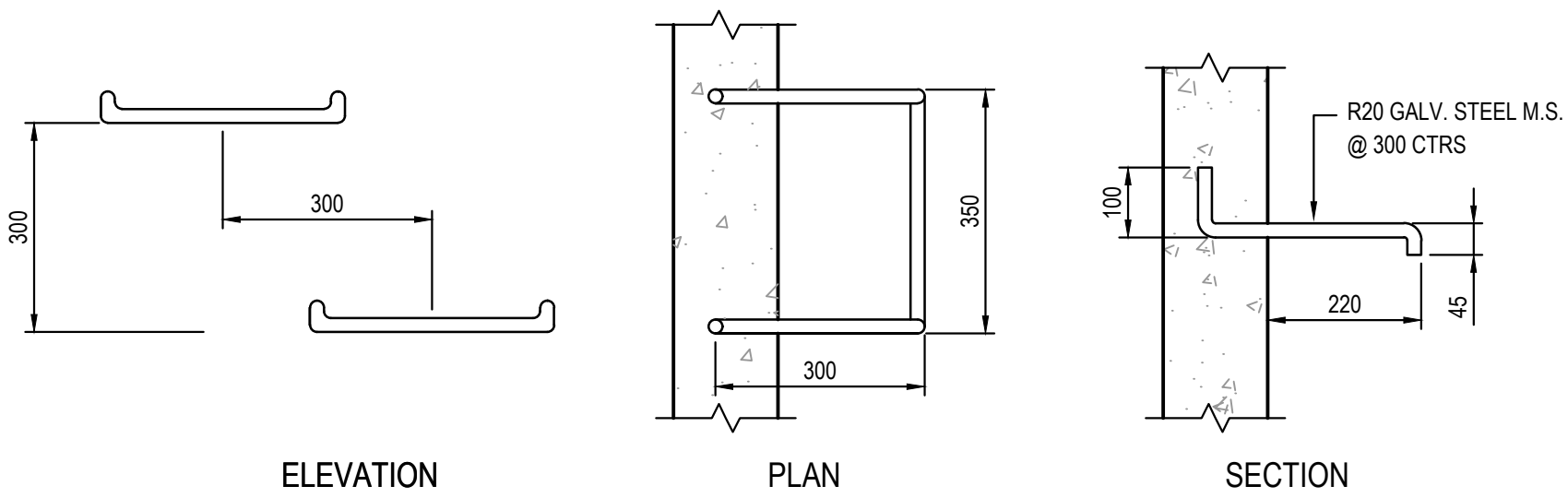
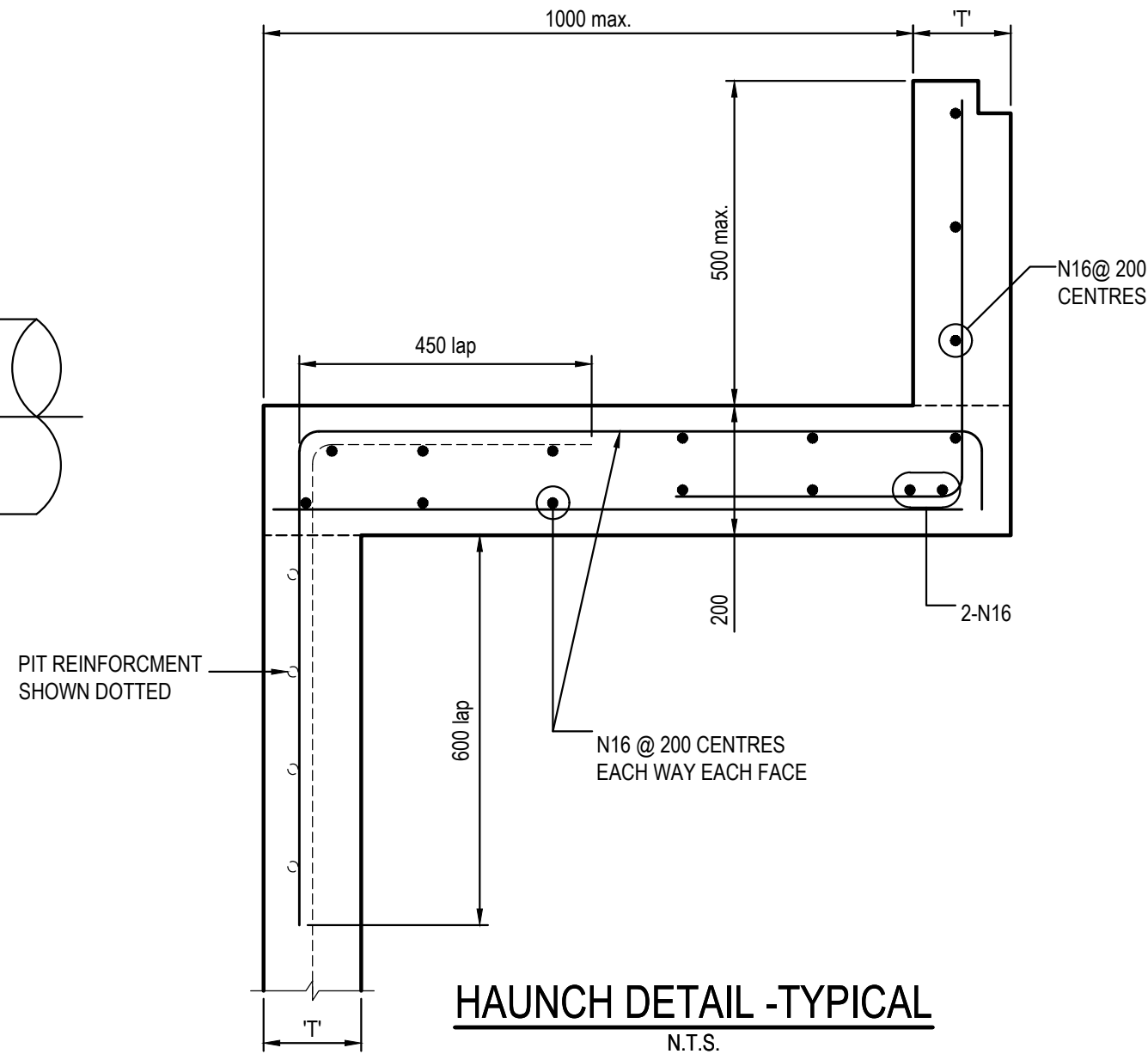
*A = 600 FOR PIPES UP TO 375 DIA.
1 PIT CHAMBER DIMENSIONS FOR PIPES UP TO 600 DIA.

1 PIT CHAMBER FOR PIPES GREATER THAN 600 DIA.

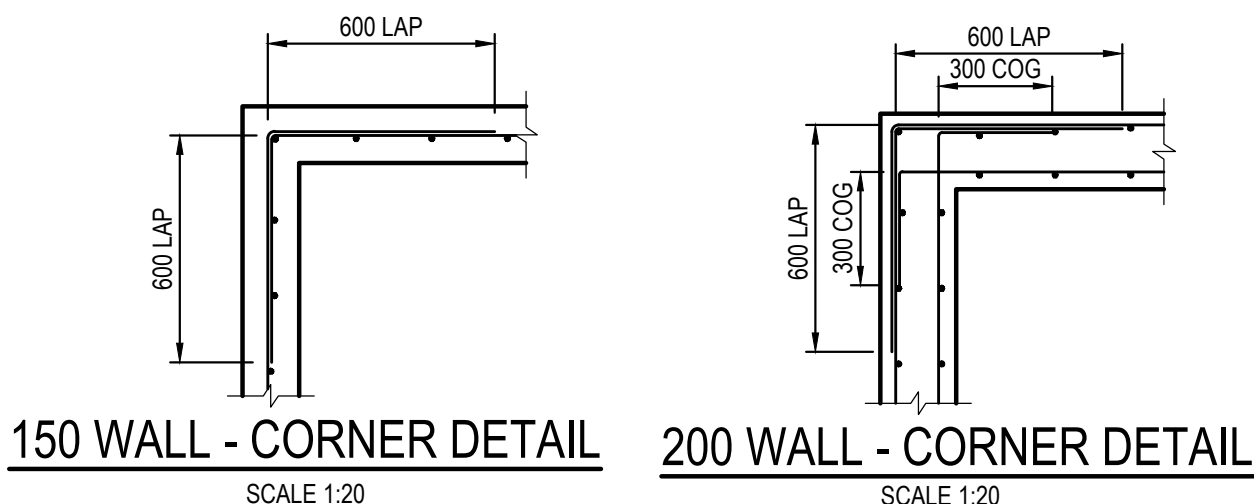
2 PIT SIZE & DEPTH REQUIREMENTS
H = 0-900mm - Ax B = 600x600mm
H = 900-1200mm - Ax B = 900x600mm
H = >1200mm - Ax B = 900x900mm



3 PIT CHAMBER FOR SIDE ENTRY ON SKEW

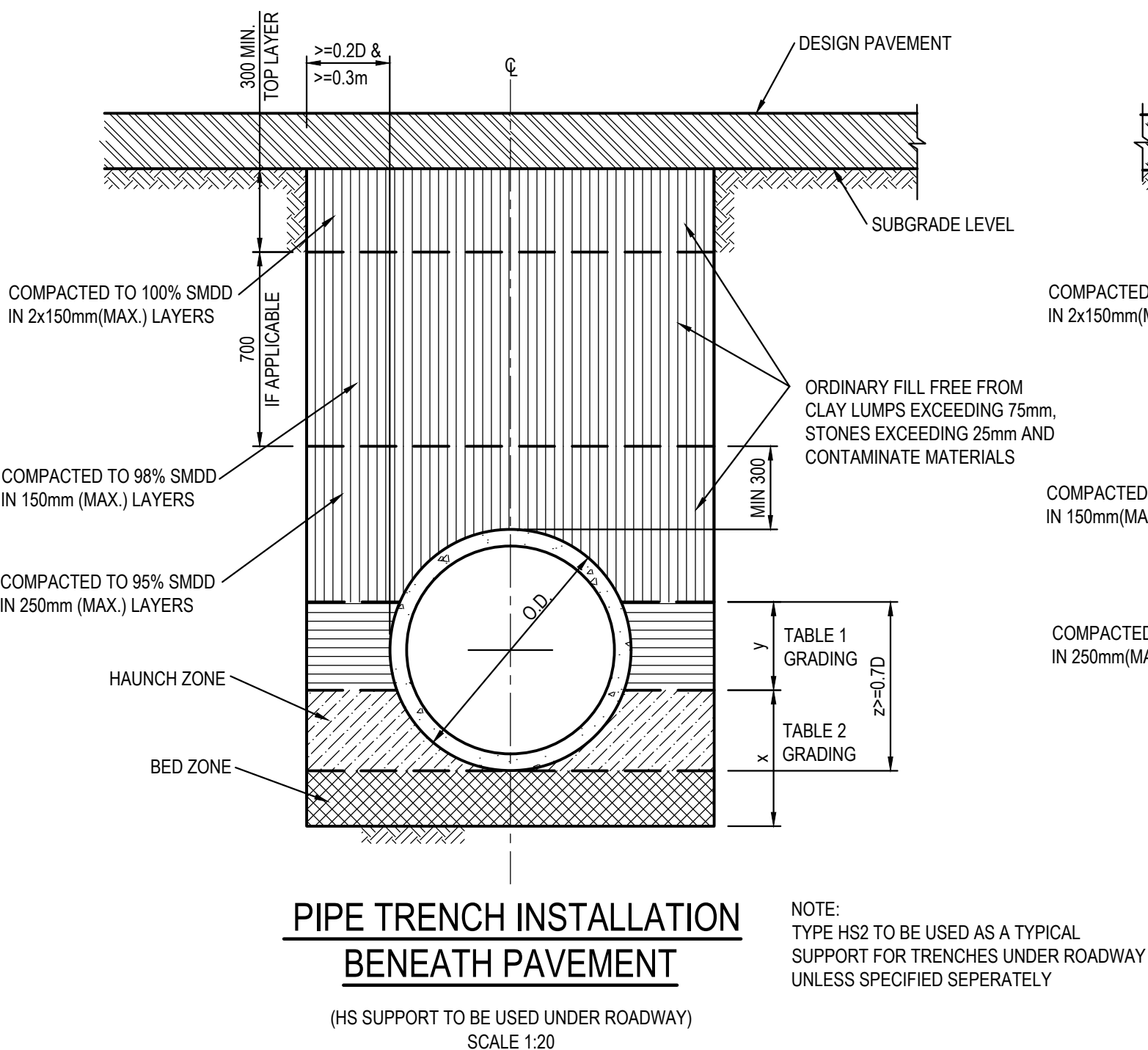


TYPICAL STEP IRON DETAIL
SCALE 1:10



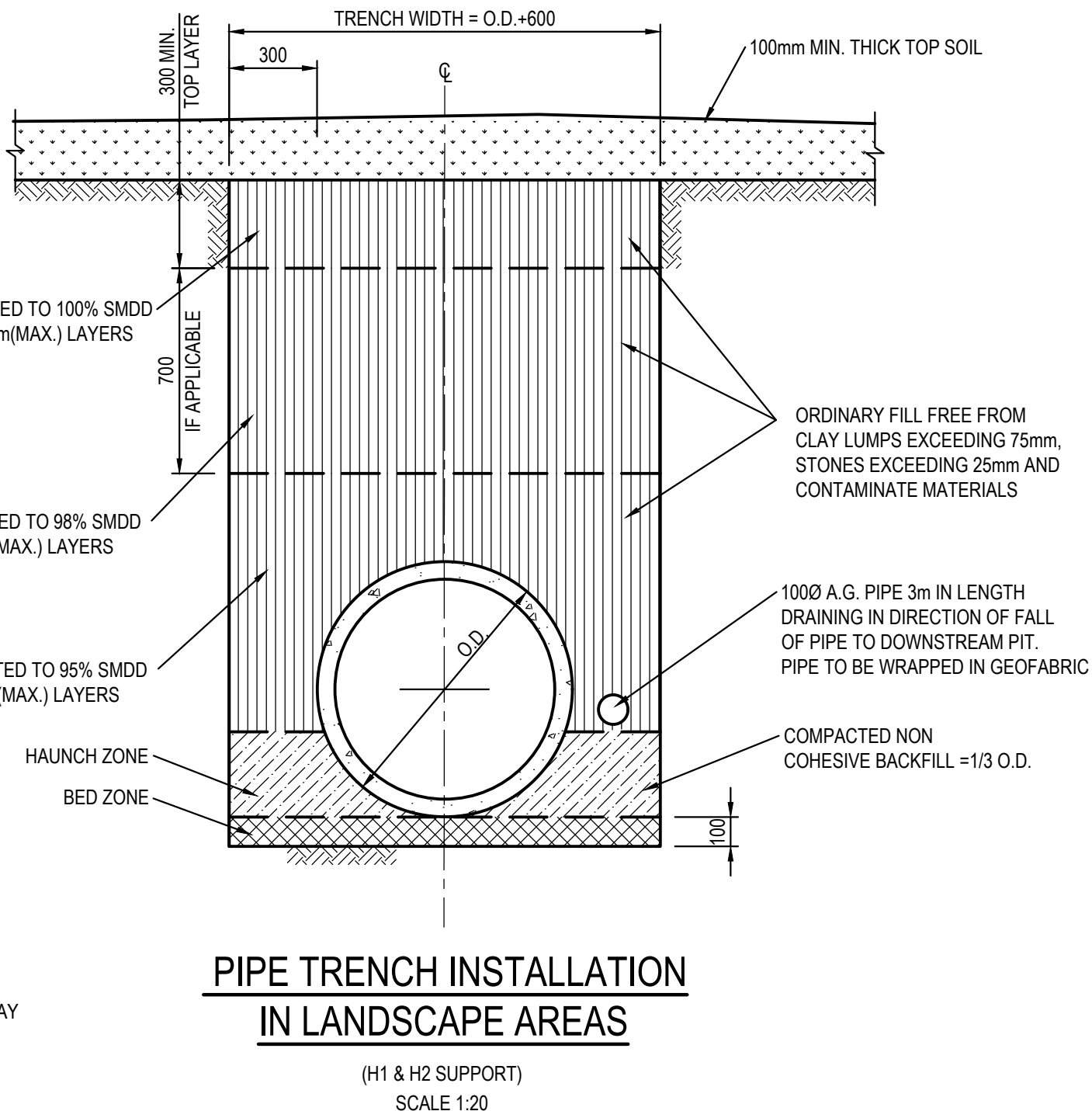
150 WALL - CORNER DETAIL
SCALE 1:20

200 WALL - CORNER DETAIL
SCALE 1:20



PIPE TRENCH INSTALLATION
BENEATH PAVEMENT
(HS SUPPORT TO BE USED UNDER ROADWAY)
SCALE 1:20

NOTE:
TYPE HS2 TO BE USED AS A TYPICAL
SUPPORT FOR TRENCHES UNDER ROADWAY
UNLESS SPECIFIED SEPERATELY



PIPE TRENCH INSTALLATION
IN LANDSCAPE AREAS
(H1 & H2 SUPPORT)
SCALE 1:20

TABLE 1	
SIEVE SIZE (MM)	WEIGHT PASISNG (%)
75.0	100
9.5	100 TO 50
2.36	100 TO 30
0.60	50 TO 15
0.075	25 TO 0

TABLE 2	
SIEVE SIZE (MM)	WEIGHT PASISNG (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

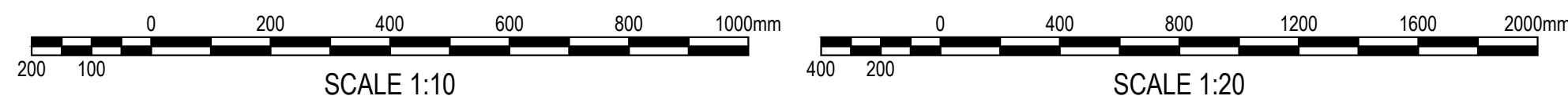
TABLE 3				
SUPPORT TYPE	BED ZONE X	HAUNCH ZONE Y	BED AND HAUNCH ZONES COMPACTION	MAX BEDDING FACTOR
HS1	100 IF D<=1500, OR 150 IF D>=1500	0.1D	50	2.0
HS2		0.3D	60	2.5
HS3		0.3D	70	4.0

PIT LID AND HEADWALL SCHEDULE

PIT/STRUCTURE NUMBER		DESCRIPTION
A-2 A-3 A-4 A-5 A-6 A-7 A-8 A-9 H-1 I-1 B-13 B-1 B-3 B-4 B-6 B-7 B-8 B-9 B-10 B-11 B-12 C-11 C-2 C-3 C-4 C-5 C-6 C-7 C-8 C-9 C-10 C-10a P-1 O-1 C-1		PROPOSED 900x900 SURFACE INLET PIT WITH HINGED GRATED LID HEAVY DUTY CLASS "D" IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENTS.
J-1 J-2 H-2 H-3 H-4 K-1 K-2 K-3 L-6 L-7 L-8 L-9 M-6 M-8 M-9		PROPOSED 600x600 SURFACE INLET PIT WITH HINGED GRATED LID LIGHT DUTY CLASS "B" IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENTS.
M-1 L-1		PROPOSED 1200x1200 SURFACE INLET PIT WITH HINGED GRATED LID MEDIUM DUTY CLASS "C" IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENTS.
M-2 M-3 L-2 L-3		PROPOSED 900x900 SURFACE INLET PIT WITH HINGED GRATED LID MEDIUM DUTY CLASS "C" IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENTS.
M-4 M-5 L-4 L-5 L-10 L-5 M-7 B-5		PROPOSED 600x600 SURFACE INLET PIT WITH HINGED GRATED LID MEDIUM DUTY CLASS "C" IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENTS.
N-1 N-2 N-3 N-4 N-5 (WQ-1) (WQ-2) (WQ-3)		PROPOSED JUNCTION PIT WITH 900x900 MEDIUM DUTY SEALED LID CLASS "C" IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENTS.
E-1 E-2 D-1 D-2 F-1 F-2 G-1 G-2 C-13 C-12		PROPOSED 600x600 SURFACE INLET PIT WITH HINGED GRATED LID HEAVY DUTY CLASS "D" IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENTS.
6D-1 6D-2 6D-3 6D-4 6D-5 6D-6 6D-7 6D-8 6D-9 6D-10 6D-11 6D-12 6D-13 6D-14 6D-15 6D-18		200mm WIDE HEAVY DUTY GRATED DRAIN AND FRAME CLASS "D" IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENTS
6D-19 6D-20 6D-21		150mm WIDE LIGHT DUTY GRATED DRAIN TO ARCHITECTS SPECIFICATIONS
A-0 A-10 A-11 A-12 A-13		PROPOSED 900x900 SURFACE INLET PIT WITH 2x450x900 GRATED LID HEAVY DUTY CLASS "D" IN BUTTERFLY CONFIGURATION IN ACCORDANCE WITH CAMDEN COUNCIL'S REQUIREMENTS.
EX-3 EX-2		EXISTING PITS TO REMAIN AND BE MODIFIED. REFER TO NOTES ON PLAN
EX-1		EXISTING PITS TO REMAIN

NOTES:

- ALL GRATED INLET PITS TO CONTAIN OCEAN PROTECT 200 MICRON PIT BASKETS OR APPROVED EQUIVALENT UNLESS NOTED ON PLAN. REFER DRAWING C201 FOR DETAILS.
- REFER C201 FOR DRAINAGE AND SUBSOIL NOTES.
- ALL PITS IN FOOTPATH, OR ADJACENT TO FOOTPATHS, TO BE FITTED WITH SLIP RESISTANT HEELGUARD LID.
- PIT SCHEDULE ABOVE DOES NOT INCLUDE PIT LIDS FOR WATER QUALITY DEVICES OR BELOW GROUND OSD TANKS, REFER DRAWINGS C210 AND C211.
- ALL RAINWATER OUTLETS (RWO) TO BE MIN 200MM IN DIAMETER. ALL RAINWATER OUTLETS TO BE HEELPROOF FINISH AND TO ARCHITECTS SPECIFICATIONS UNLESS NOTED ON PLAN.



SURVEY INFORMATION
SURVEYED BY LANDPARTNERS
DATUM: AHD
ORIGIN OF LEVELS: PM5452, RL42.876

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
04	ISSUED FOR DA ONLY	MB	LV	03.07.2024					
03	ISSUED FOR DA ONLY	MB	LV	07.06.2024					
02	ISSUED FOR DA ONLY	AFe	LV	18.12.2023					
01	ISSUED FOR PRELIMINARY	AFe	LV	08.12.2023					

Client	ESR
Architect	SBA ARCHITECTS
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DRAWING TO BE PRINTED IN COLOUR	



Project	PROPOSED WAREHOUSE DEVELOPMENT 50-52 AIRDS ROAD, MINTO, NSW
Drawn	M.Pereira
Designed	L.Villa
Checked	L.Villa
Approved	A.Francis
Title	STORMWATER MISCELLANEOUS DETAILS AND PIT LID SCHEDULE

FOR DA ONLY

Original issue date	JUNE
Scale (BA1)	AS NOTED
Drawing number	230541_DA_C200
Revision	04