

SYDNEY OFFICE

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Reference: GA:HR CO/ST 18554B

Date: 09 May 2022

Project: WQD – Building 1, Building 2 and shared Basement (the **Project**)

Consultant: Robert Bird Group Pty Ltd ABN 67 010 580 248

Beneficiaries: WL Developer, the MQD D&C Contractor and the MQD D&C Subcontractor
(**Beneficiaries**)

RE: STRUCTURAL STATEMENT FOR S4.55 PLANNING SUBMISSION

The Consultant hereby confirms the structural stability and structural coordination to the Waterloo Metro Station of the refined layout for the Waterloo MQD development Buildings 1, 2, and shared basement in relation to the scope of RBG's engagement. This statement applies to the current documented design contained on the below listed architectural drawings.

- WMQ-BMNT-WBG-AR-DRG-DA0001, Revision E
- WMQ-BMNT-WBG-AR-DRG-DA0090, Revision E
- WMQ-BMNT-WBG-AR-DRG-DA0091, Revision E
- WMQ-BMNT-WBG-AR-DRG-DA0092, Revision E
- WMQ-BMNT-WBG-AR-DRG-DA0101, Revision E
- WMQ-BMNT-WBG-AR-DRG-DA0102, Revision E
- WMQ-BMNT-WBG-AR-DRG-DA0103, Revision E
- WMQ-BMNT-WBG-AR-DRG-DA0121, Revision E
- WMQ-BMNT-WBG-AR-DRG-DA0122, Revision E
- WMQ-BMNT-WBG-AR-DRG-DA0190, Revision E

George Andrianakos

Name of duly authorised person



Signature of duly authorised person

WATERLOO METRO QUARTER DEVELOPMENT BASEMENT

BASEMENT DA DRAWING LIST - SSD10438

SHEET NUMBER	SHEET NAME	SHEET ISSUE DATE	REVISION
WMQ-BMNT-WBG-AR-DRG-DA0001	COVER SHEET	11/03/22	E
WMQ-BMNT-WBG-AR-DRG-DA0090	BASEMENT - FLOOR PLAN LEVEL 00	11/03/22	E
WMQ-BMNT-WBG-AR-DRG-DA0091	BASEMENT - FLOOR PLAN LEVEL P1	11/03/22	F
WMQ-BMNT-WBG-AR-DRG-DA0092	BASEMENT - FLOOR PLAN LEVEL P2	11/03/22	F
WMQ-BMNT-WBG-AR-DRG-DA0101	BASEMENT - LONGITUDINAL SECTION 01	11/03/22	E
WMQ-BMNT-WBG-AR-DRG-DA0102	BASEMENT - CROSS SECTION 01	11/03/22	E
WMQ-BMNT-WBG-AR-DRG-DA0103	BASEMENT - CROSS SECTION 02	11/03/22	E
WMQ-BMNT-WBG-AR-DRG-DA0121	BASEMENT - DEEP PLANTER SECTION 01	11/03/22	E
WMQ-BMNT-WBG-AR-DRG-DA0122	BASEMENT - DEEP PLANTER SECTION 02	11/03/22	E
WMQ-BMNT-WBG-AR-DRG-DA0190	BASEMENT - AREA PLAN 01	11/03/22	E

1

Recent revision history		
#	Status	Description
A		FOR INFORMATION (DA)
B		FOR APPROVAL
C		FOR APPROVAL
D		FOR APPROVAL
E		SECTION 4.55
		15.07.20
		31.07.20
		25.09.20
		15.02.21
		11.03.22

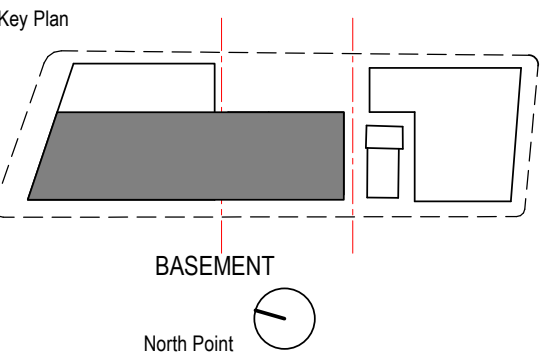
Current Revision Amendments		
#	Mark	Comments
E	1	REVISION UPDATED FOR APPROVAL

Notes

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Do not scale drawings.



Consultant

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Project

WATERLOO METRO QUARTER DEVELOPMENT

Project number	Size check
121234	25mm
Checked	Approved
AL	SL
	Sheet size
	A1
	Scale

Sheet title

SSD10438

COVER SHEET

Status

SECTION 4.55

Sheet number

WMQ-BMNT-WBG-AR-DRG-DA0001

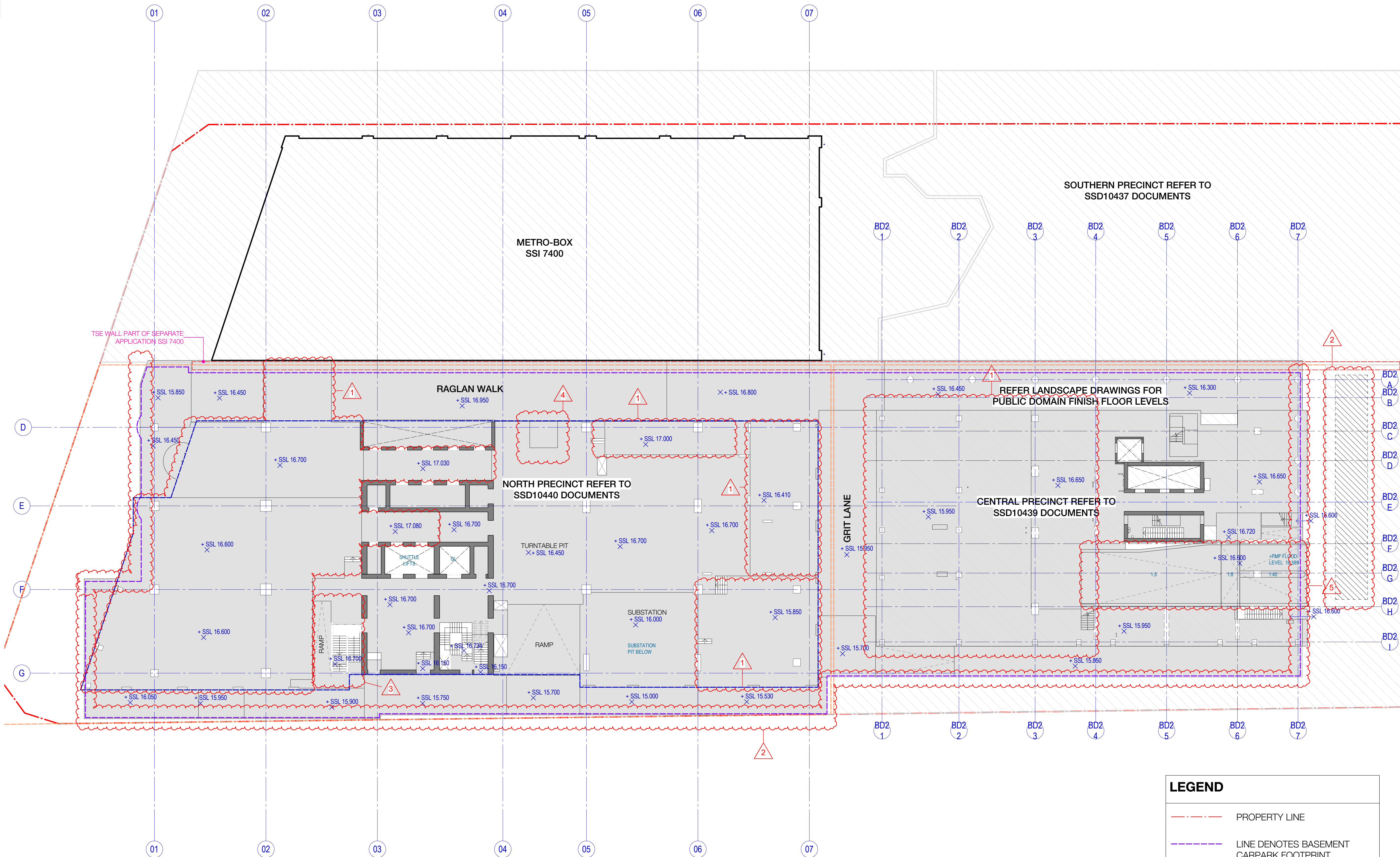
Revision

E

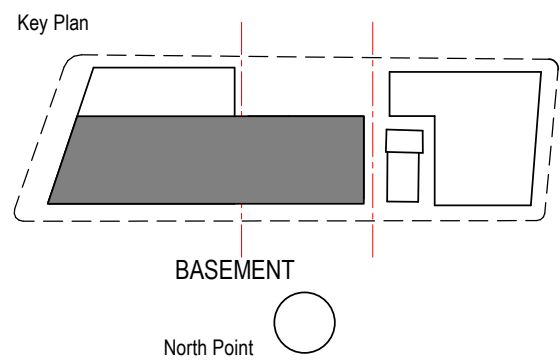
Recent revision history		
#	Status	Description
A	FOR INFORMATION (DA)	15.07.20
B	FOR APPROVAL	31.07.20
C	FOR APPROVAL	25.09.20
D	FOR APPROVAL	15.02.21
E	SECTION 4.55	11.03.22

Current Revision Amendments		
#	Mark	Comments
E 1		SLAB LEVEL ADJUSTED FOR FLOOD LEVELS
E 2		PERIMETER WALL ADJUSTED
E 3		FIRE STAIR 01 ADJUSTED
E 4		LOADING DOCK HOST PIT UPDATED
E 5		BASEMENT ACCESS RAMP ADJUSTED

Notes
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LEGEND	
	PROPERTY LINE
	LINE DENOTES BASEMENT CARPARK FOOTPRINT
	LINE DENOTES BUILDING FOOTPRINT
	INDICATIVE TSE WALL
	SSD DA PRECINCT BOUNDARY
	NOT IN SCOPE



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Project
WATERLOO METRO QUARTER DEVELOPMENT

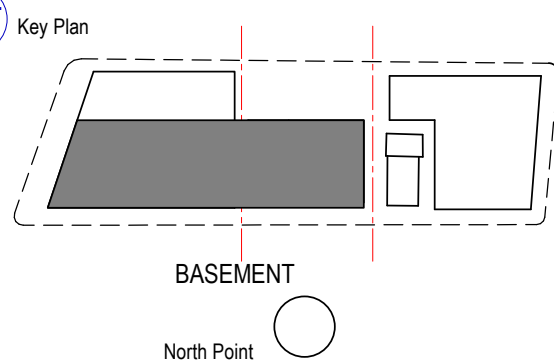
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Checked	Approved	Sheet size	Scale
AL	SL	A1	1 : 200

Sheet title
SSD10438
BASEMENT - FLOOR PLAN LEVEL 00

Status	Revision
SECTION 4.55	
Sheet number	Revision
WMQ-BMNT-WBG-AR-DRG-DA0090 E	

Current Revision Amendments		
#	Mark	Comments
F	1	LAYOUT UPDATED
F	2	LOW RISE LIFT PIT ADJUSTED
F	3	PERIMETER WALL ADJUSTED
F	4	FIRE STAIR 01 ADJUSTED
F	5	TABLE UPDATED

Do not scale drawings.



Project
WATERLOO METRO QUARTER DEVELOPMENT

Sheet title
SSD10438
BASEMENT - FLOOR PLAN LEVEL P1

Sheet number Revision
WMQ-BMNT-WBG-AR-DRG-DA0091

	Social Housing	6	
	Social Housing - DDA	2	
	Visitor - DDA	2	
	P1: 65	65	
	P2		
	Commercial	31	
	Commercial - Small	4	
	Residential	47	
	Residential DDA	8	
	P2: 90	90	
	Grand total: 155	155	

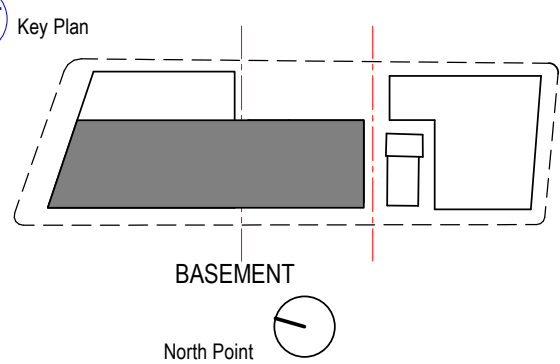
BICYCLE SPACES			
LEVEL	COMMERCIAL (END OF TRIP)	RESIDENTIAL (LOCKER)	RETAIL & CHILDCARE
P1 -	243	60	14
P2 -			
TOTAL	243	60	14

STORAGE ALLOCATION	RESIDENTIAL STORAGE	
	P2	
	Storage	54
	Storage Large	6
	P2: 60	
	P1	
	Storage	30
	P1: 30	
	Grand total: 90	

Recent revision history		
#	Status	Description
A	FOR INFORMATION (DA)	15.07.20
B	FOR APPROVAL	31.07.20
C	FOR APPROVAL	25.09.20
D	FOR INFORMATION	28.01.21
E	FOR APPROVAL	15.02.21
F	SECTION 4.55	11.03.22

Current Revision Amendments		
#	Mark	Comments
F 1		LAYOUT UPDATED
F 2		PERIMETER WALL ADJUSTED
F 3		FIRE STAIR 01 ADJUSTED
F 4		TABLE UPDATED

Notes
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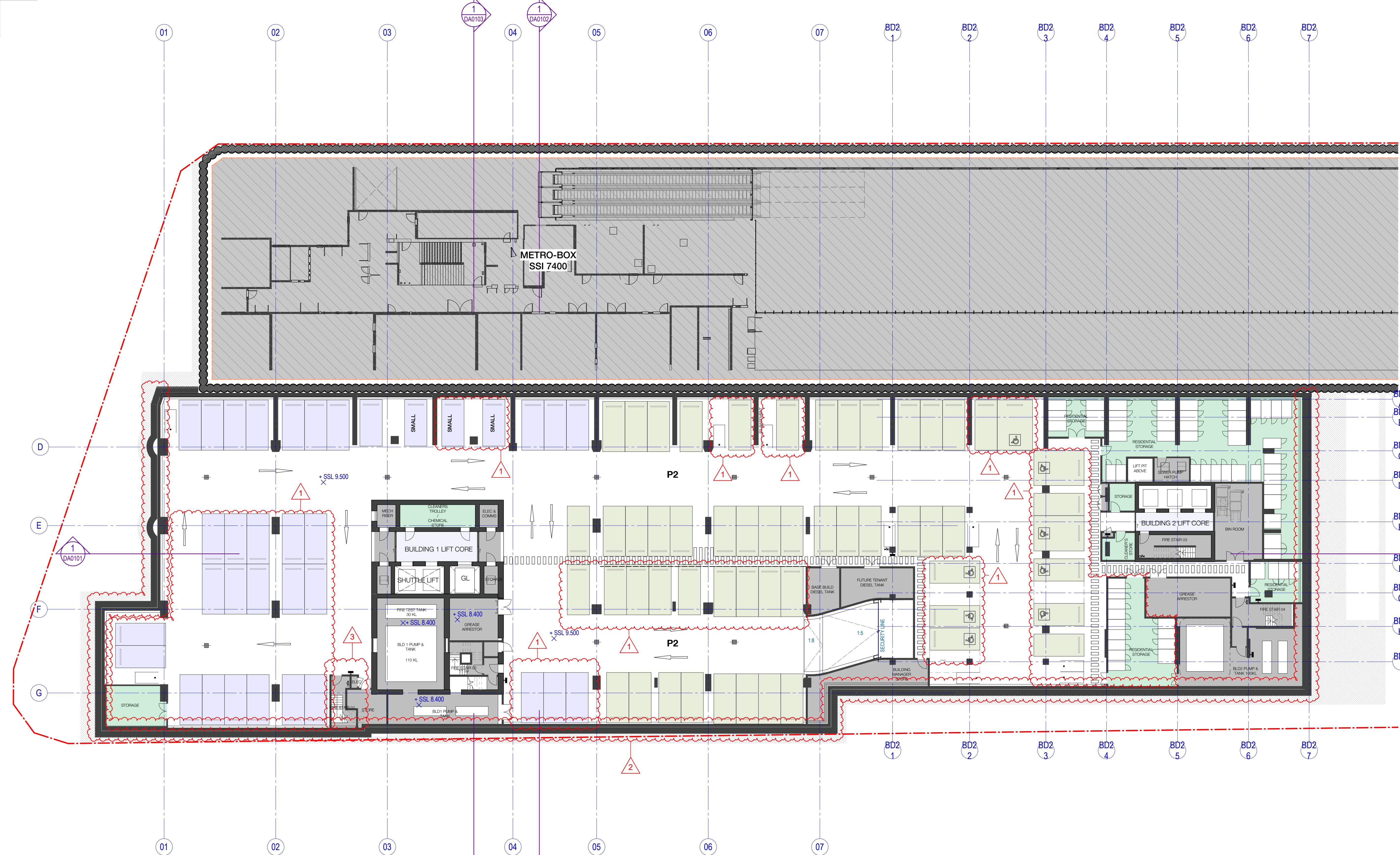
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Project
WATERLOO METRO QUARTER DEVELOPMENT

Project number		Size check		
121234		25mm		
Checked	Approved	Sheet size	Scale	
AL	SL	A1	As indicated	

Sheet title
SSD10438
BASEMENT - FLOOR PLAN LEVEL P2

Status
SECTION 4.55
Sheet number
WMQ-BMNT-WBG-AR-DRG-DA0092 F
Revision



1 LEVEL P2 BMNT
SCALE 1 : 200

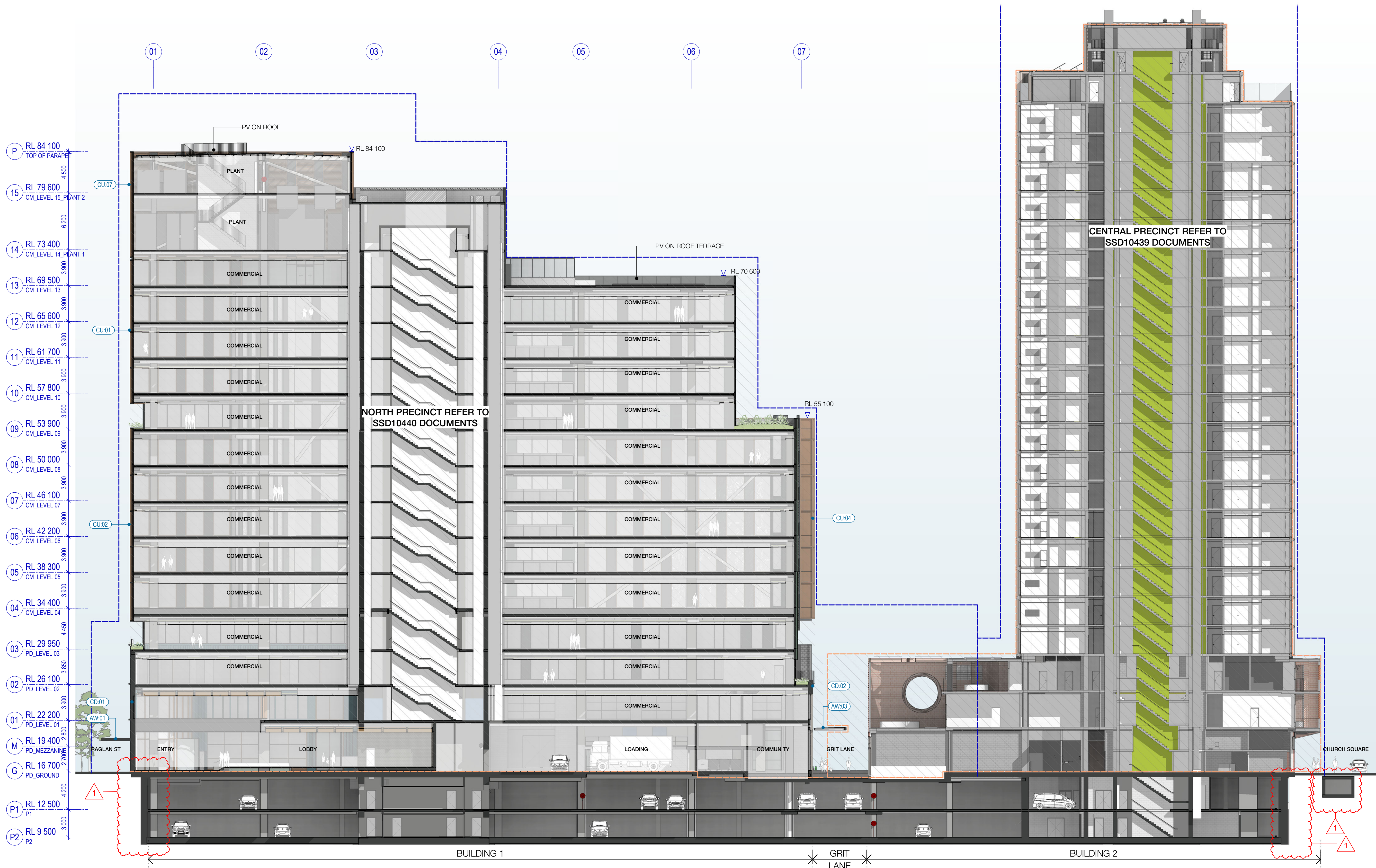
PARKING ALLOCATION		
P1	Affordable Housing	11
	Affordable Housing - DDA	1
	Car Wash	1
	Care Share	4
	Childcare	1
	Church	2
	Commercial	22
	Commercial - DDA	2
	Commercial - Small	4
	Metro	2
	Service	5

	Social Housing	6
	Social Housing - DDA	2
	Visitor - DDA	2
P1: 65		65
P2	Commercial	31
	Commercial - Small	4
	Residential	47
	Residential DDA	8
P2: 90		90
Grand total: 155		155

MOTORCYCLE SPACES		
P1	Motorbike - Commercial	4
P1: 4		4
P2	Motorbike - Commercial	2
	Motorbike - Resi	7
P2: 9		9
Grand total: 13		13

BICYCLE SPACES			
LEVEL	COMMERCIAL (END OF TRIP)	RESIDENTIAL (LOCKER)	RETAIL & CHILDCARE
P1	243	60	14
P2	-	-	-
TOTAL	243	60	14

STORAGE ALLOCATION		
P2	Storage	54
	Storage Large	6
P2: 60		60
P1	Storage	30
P1: 30		30
Grand total: 90		90



Recent revision history

#	Status	Description	Date
A	FOR INFORMATION (DA)	FOR INFORMATION (DA)	15.07.20
B	FOR APPROVAL	FOR APPROVAL	31.07.20
C	FOR APPROVAL	FOR APPROVAL	25.09.20
D	FOR APPROVAL	FOR APPROVAL	15.02.21
E	SECTION 4.55	SECTION 4.55	11.03.22

Current Revision Amendments

#	Mark	Comments
E	1	PERIMETER WALL ADJUSTED

Notes

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Key Plan

Client

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Project

WATERLOO METRO QUARTER DEVELOPMENT

Project number

121234

Size check

25mm

Checked

AL

Approved

SL

Sheet size

A1

Scale

1:200

Sheet title

SSD10438
BASEMENT - LONGITUDINAL
SECTION 01

Status

SECTION 4.55

Sheet number

WMQ-BMNT-WBG-AR-DRG-DA0101 E

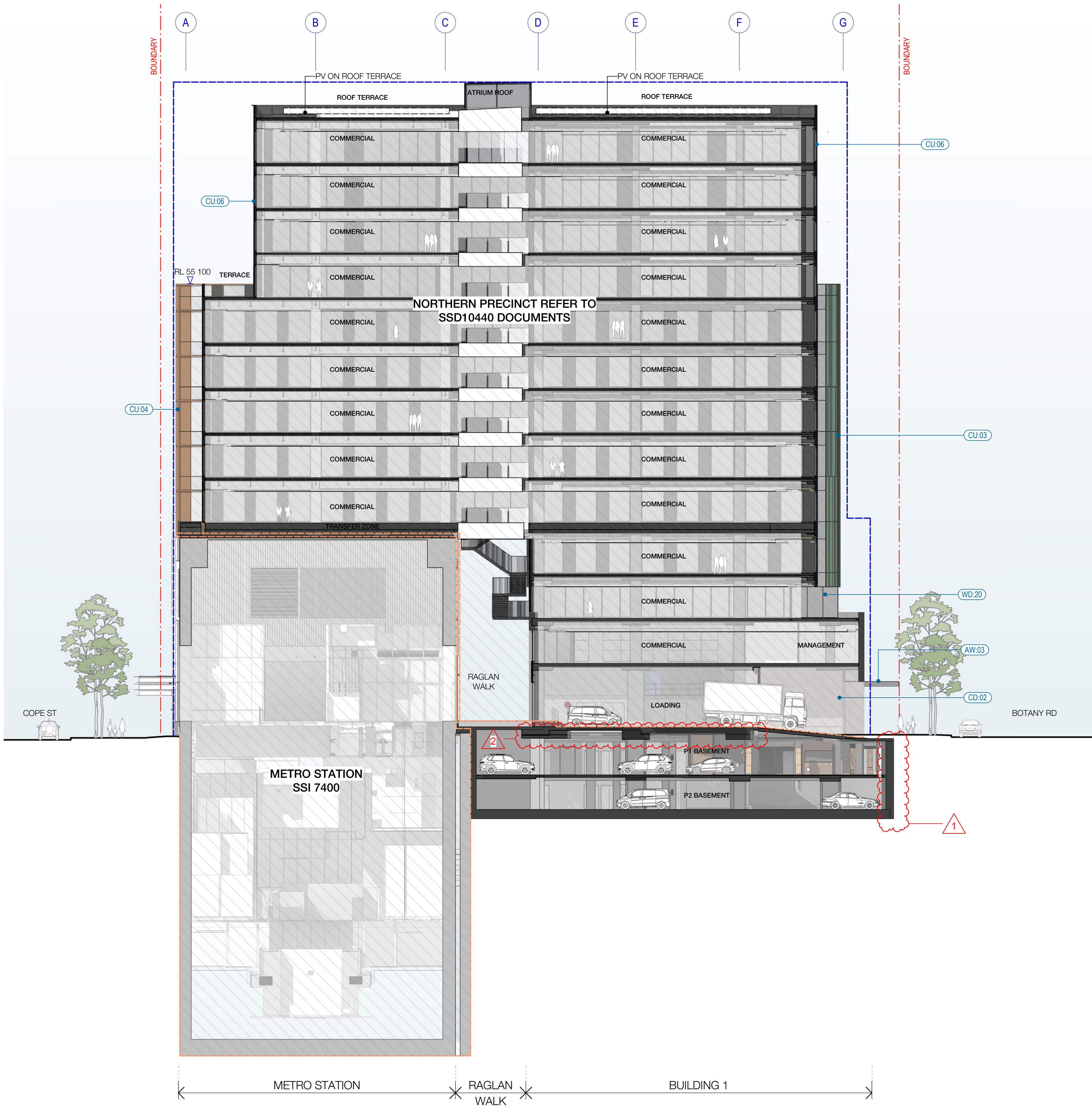
Revision

LEGEND

--- PROPERTY LINE

--- PLANNING ENVELOPE PROFILE

SSD DA PRECINCT BOUNDARY



RL 69 500	13
CM_LEVEL 13	
3 900	
RL 65 600	12
CM_LEVEL 12	
3 900	
RL 61 700	11
CM_LEVEL 11	
3 900	
RL 57 800	10
CM_LEVEL 10	
3 900	
RL 53 900	09
CM_LEVEL 09	
3 900	
RL 50 000	08
CM_LEVEL 08	
3 900	
RL 46 100	07
CM_LEVEL 07	
3 900	
RL 42 200	06
CM_LEVEL 06	
3 900	
RL 38 300	05
CM_LEVEL 05	
3 900	
RL 34 400	04
CM_LEVEL 04	
4 450	
RL 29 950	03
PD_LEVEL 03	
3 850	
RL 26 100	02
PD_LEVEL 02	
3 900	
RL 22 200	01
PD_LEVEL 01	
5 500	
RL 19 400	M
PD_MEZZANINE	
RL 16 700	G
PD_GROUND	
4 200	
RL 12 500	P1
P1	
3 000	
RL 9 500	P2
P2	

1 CROSS SECTION 1
SCALE 1 : 200

Recent revision history		
#	Status	Description
A	FOR INFORMATION (DA)	15.07.20
B	FOR APPROVAL	31.07.20
C	FOR APPROVAL	25.09.20
D	FOR APPROVAL	15.02.21
E	SECTION 4.55	11.03.22

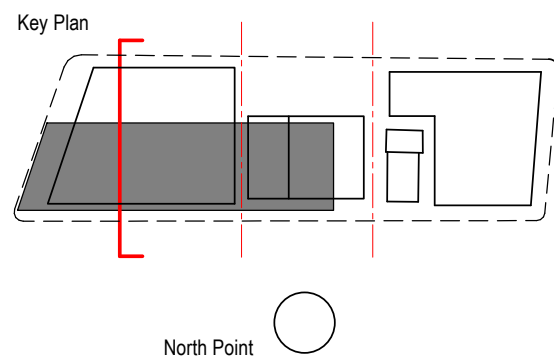
Current Revision Amendments		
#	Mark	Comments
E 1		PERIMETER WALL ADJUSTED
E 2		STRUCTURE UNDER LOADING AREA ADJUSTED

Notes

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Project

WATERLOO METRO QUARTER DEVELOPMENT

Project number	Size check
121234	25mm
Checked	Approved
AL	SL
Sheet size	Scale
A1	1 : 200

Sheet title

SSD10438
BASEMENT - CROSS SECTION 01

Status

SECTION 4.55

Sheet number

WMQ-BMNT-WBG-AR-DRG-DA0102 E

Revision



LEGEND

--- PROPERTY LINE

--- PLANNING ENVELOPE PROFILE

SSD DA PRECINCT BOUNDARY

RL 84 100	P
TOP OF PARAPET	
RL 79 600	15
CM_LEVEL 15_PLANT 2	
RL 73 400	14
CM_LEVEL 14_PLANT 1	
RL 69 500	13
CM_LEVEL 13	
RL 65 600	12
CM_LEVEL 12	
RL 61 700	11
CM_LEVEL 11	
RL 57 800	10
CM_LEVEL 10	
RL 53 900	09
CM_LEVEL 09	
RL 50 000	08
CM_LEVEL 08	
RL 46 100	07
CM_LEVEL 07	
RL 42 200	06
CM_LEVEL 06	
RL 38 300	05
CM_LEVEL 05	
RL 34 400	04
CM_LEVEL 04	
RL 29 950	03
PD_LEVEL 03	
RL 26 100	02
PD_LEVEL 02	
RL 22 200	01
PD_LEVEL 01	
RL 19 400	M
PD_MEZZANINE	
RL 16 700	G
PD_GROUND	
RL 12 500	P1
P1	
RL 9 500	P2
P2	
RL 7 000	B1
PIT LEVEL	

Recent revision history		
#	Status	Description
A	FOR INFORMATION (DA)	15.07.20
B	FOR APPROVAL	31.07.20
C	FOR APPROVAL	25.09.20
D	FOR APPROVAL	15.02.21
E	SECTION 4.55	11.03.22

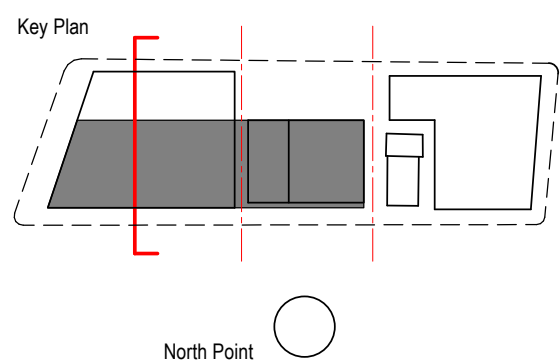
Current Revision Amendments		
#	Mark	Comments
E 1		PERIMETER WALL ADJUSTED
E 2		BLD1 CORE PIT LEVEL ADJUSTED
E 3		BLD1 LOW RISE PIT PIT STRUCTURE ADJUSTED

Notes

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Client

Waterloo Integrated Station Development

A Joint Venture Project

JOHN HOLLAND mirvac

NSW GOVERNMENT

sydney METRO

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Project

WATERLOO METRO QUARTER DEVELOPMENT

Project number	Size check
121234	25mm
Checked	Approved
AL	SL
Sheet size	Scale
A1	1:200

Sheet title

SSD10438

BASEMENT - CROSS SECTION 02

Status

SECTION 4.55

Sheet number

WMQ-BMNT-WBG-AR-DRG-DA0103 E

Revision

1 CROSS SECTION 2

SCALE 1:200

Current Revision Amendments		
#	Mark	Comments
E	1	PERIMETER WALL ADJUSTED
E	2	SLAB LEVEL ADJUSTED FOR SERVICE HEIGHT
		CLEARANCE ON P1
E	3	LANDSCAPE DEEP SOIL ZONE UPDATED

Notes

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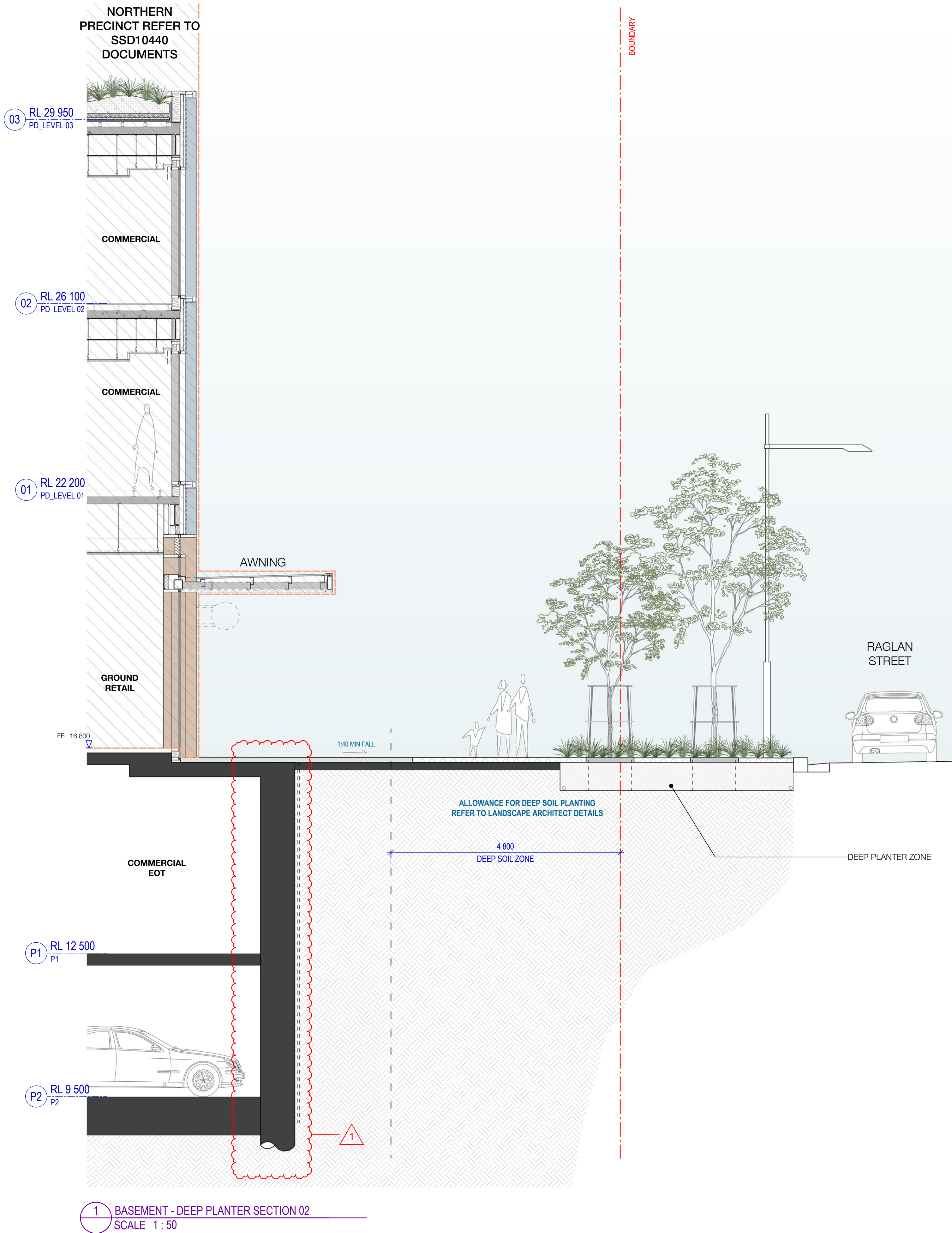
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Sheet title
SSD10438
BASEMENT - DEEP PLANTER
SECTION 01

Status
SECTION 4.55
Sheet number
Revision
WMQ-BMNT-WBG-AR-DRG-DA0121 E



Recent revision history		
#	Status	Description
A	FOR INFORMATION (DA)	15.07.20
B	FOR APPROVAL	31.07.20
C	FOR APPROVAL	25.09.20
D	FOR APPROVAL	15.02.21
E	SECTION 4.55	11.03.22

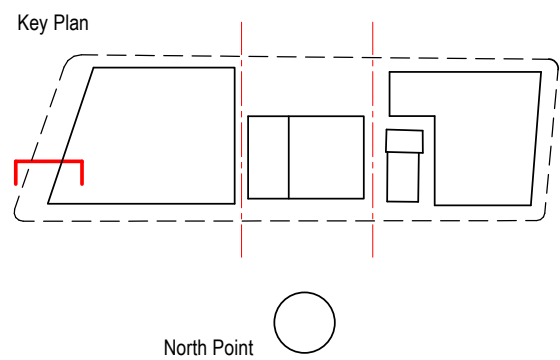
Current Revision Amendments		
#	Mark	Comments
E	1	PERIMETER WALL ADJUSTED

Notes

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Project

WATERLOO METRO QUARTER DEVELOPMENT

Project number		Size check	
121234		25mm	
Checked	Approved	Sheet size	Scale
AL	SL	A1	1 : 50

Sheet title

SSD10438
BASEMENT - DEEP PLANTER
SECTION 02

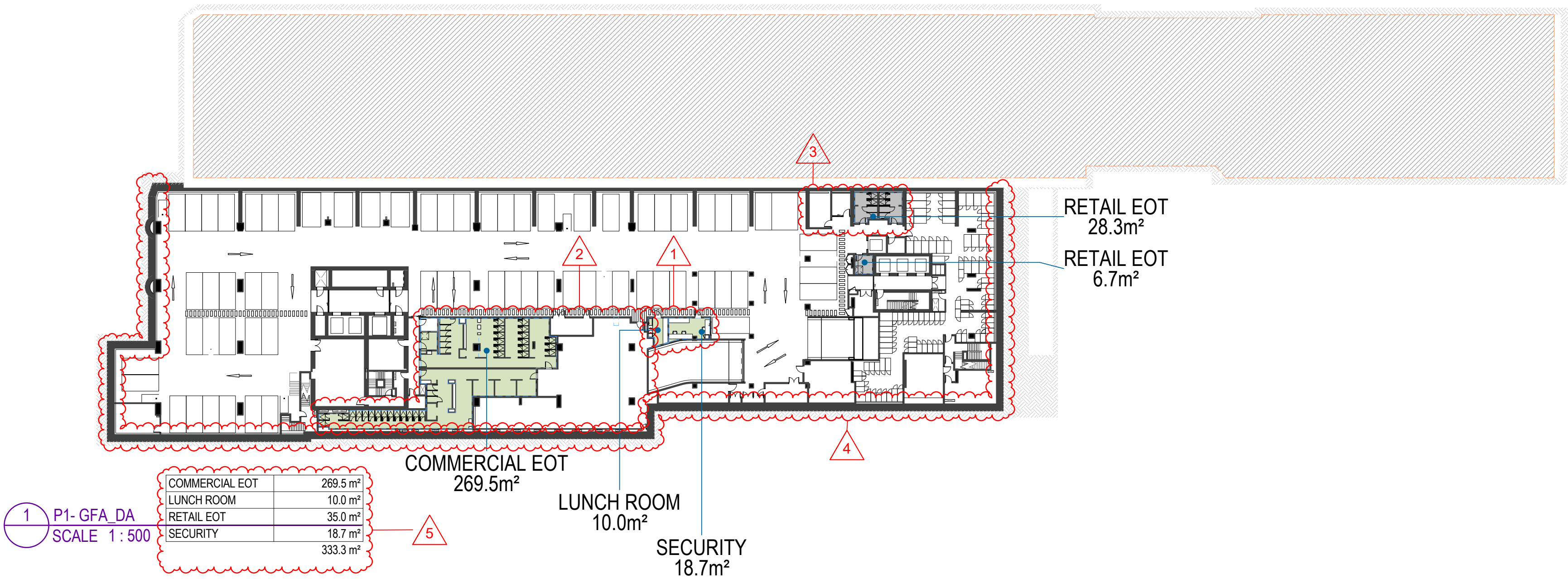
Status

SECTION 4.55

Sheet number

WMQ-BMNT-WBG-AR-DRG-DA0122 E

Revision



Recent revision history		
#	Status	Description
A	FOR INFORMATION (DA)	15.07.20
B	FOR APPROVAL	31.07.20
C	FOR APPROVAL	25.09.20
D	FOR APPROVAL	15.02.21
E	SECTION 4.55	11.03.22

Current Revision Amendments		
#	Mark	Comments
E 1		LAYOUT UPDATED
E 2		LAYOUT UPDATED
E 3		LAYOUT UPDATED
E 4		PERIMETER WALL ADJUSTED
E 5		TABLE UPDATED

Notes

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THE DEFINITION FOR GROSS FLOOR AREA IS SET OUT IN SYDNEY LEP 2012 AS:

GROSS FLOOR AREA MEANS THE SUM OF THE FLOOR AREA OF EACH FLOOR OF A BUILDING MEASURED FROM THE INTERNAL FACE OF EXTERNAL WALLS, OR FROM THE INTERNAL FACE OF WALLS SEPARATING THE BUILDING FROM ANY OTHER BUILDING, MEASURED AT A HEIGHT OF 1.4 METRES ABOVE THE FLOOR, AND INCLUDES:

a) THE AREA OF A MEZZANINE, AND

b) HABITABLE ROOMS IN A BASEMENT OR AN ATTIC, AND

c) ANY SHOP, AUDITORIUM, CINEMA, AND THE LAKE, IN A BASEMENT OR AN ATTIC, BUT EXCLUDES:

d) ANY AREA OF COMMON VERTICAL CIRCULATION, SUCH AS LIFTS AND STAIRS, AND

e) ANY BASEMENT,

f) STORAGE, AND

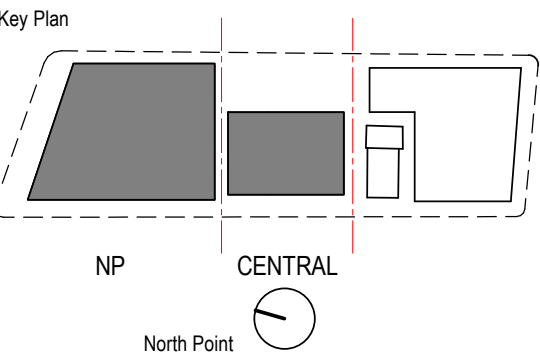
g) VEHICULAR ACCESS, LOADING AREAS, GARBAGE AND SERVICES, AND

h) PLANT ROOMS, LIFT TONERS AND OTHER AREAS USED EXCLUSIVELY FOR MECHANICAL SERVICES OR DUCTING, AND

i) CAR PARKING TO MEET ANY REQUIREMENTS OF THE CONSENT AUTHORITY INCLUDING ACCESS TO THE CAR PARKING, AND

j) TERRACES AND BALCONIES WITH OUTER WALLS LESS THAN 1.4 METRES HIGH, AND

k) VOIDS ABOVE A FLOOR AT THE LEVEL OF A STOREY OR STOREY ABOVE



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Project

WATERLOO METRO QUARTER DEVELOPMENT

Project number		Size check	
121234		25mm	
Checked	Approved	Sheet size	Scale
AL	SL	A1	1 : 500

Sheet title

SSD10438
BASEMENT - AREA PLAN 01

Status

SECTION 4.55

Sheet number

WMQ-BMNT-WBG-AR-DRG-DA0190 E

Revision