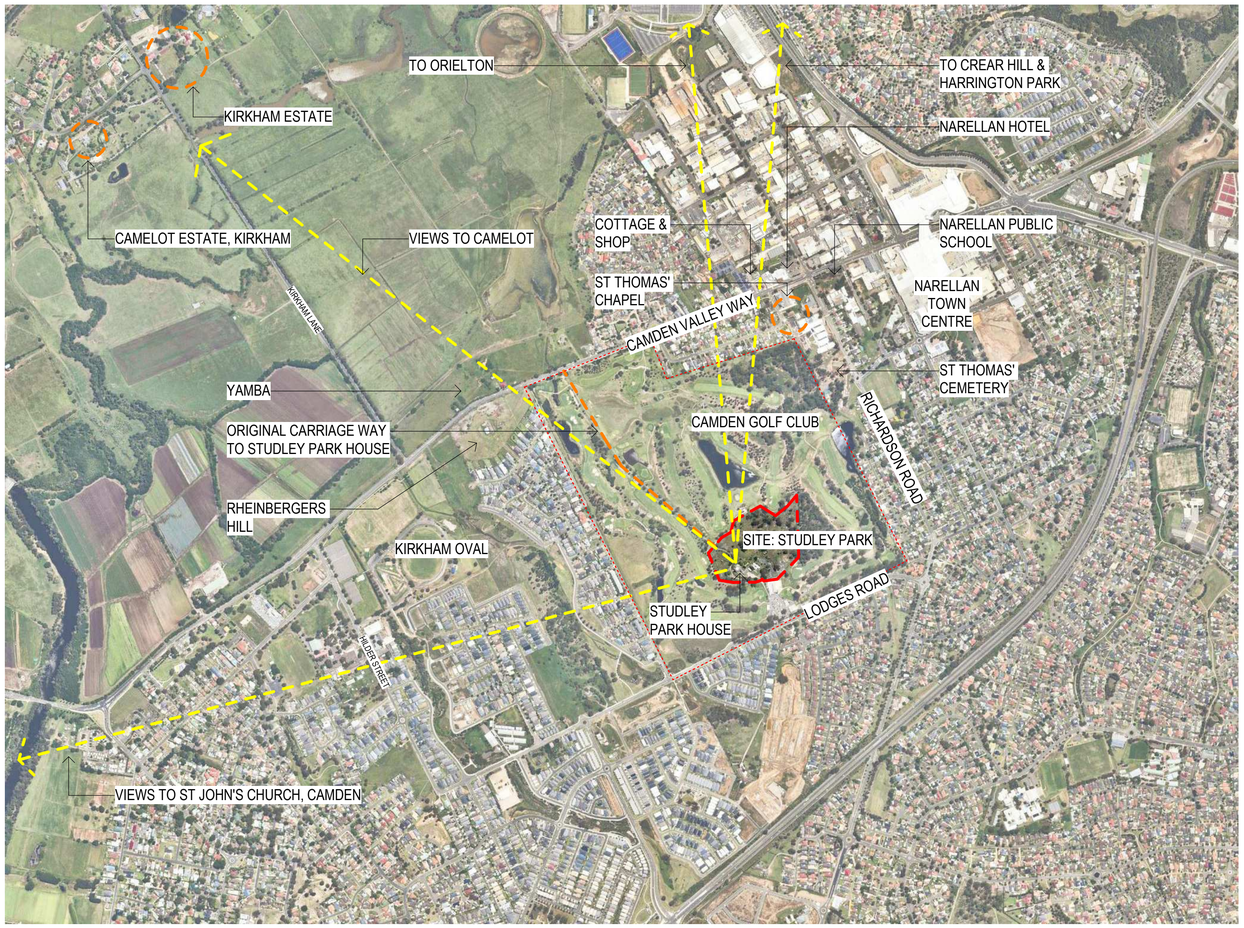

STUDLEY PARK AERIAL SITE PLAN - NTS

STUDLEY PARK

REVISED

DEVELOPMENT APPLICATION ISSUE

52 LODGES ROAD, NARELLAN
NSW 2567

DRAWING LIST

DRAWING NO.	SHEET NAME
DA0000	COVER PAGE
DA0001	SITE PLAN
DA0002	SITE ANALYSIS PLAN (EXISTING)
DA0003	SITE DEMOLITION PLAN
DA0004	SITE BASEMENT LEVEL 1 PLAN
DA0005	SITE GROUND LEVEL PLAN
DA0006	SITE ROOF PLAN
DA0007	SITE ELEVATIONS - SHEET 1
DA0008	SITE ELEVATIONS - SHEET 2
DA0009	SITE SECTIONS - SHEET 1
DA0010	SITE SECTIONS - SHEET 2
DA0011	ACCESS DRIVEWAY PLAN
DA0101	NOTIFICATION PLAN - SHEET 2/3
DA0102	NOTIFICATION PLAN - SHEET 3/3
DA1001	BUILDING A - BASEMENT PLANS
DA1002	BUILDING A - FLOOR PLANS
DA1101	BUILDING A - ELEVATIONS
DA1102	BUILDING A - SECTIONS
DA1201	BUILDING A - SOLAR ACCESS
DA1202	BUILDING A - CROSS VENTILATION
DA1203	BUILDING A - GFA
DA2001	BUILDING B - BASEMENT PLANS
DA2002	BUILDING B - FLOOR PLANS
DA2101	BUILDING B - ELEVATIONS
DA2102	BUILDING B - SECTIONS
DA2201	BUILDING B - SOLAR ACCESS
DA2202	BUILDING B - CROSS VENTILATION
DA2203	BUILDING B - GFA
DA3001	BUILDING C+D - BASEMENT PLANS
DA3002	BUILDING C+D - FLOOR PLANS - SHEET 1
DA3003	BUILDING C+D - FLOOR PLANS - SHEET 2
DA3101	BUILDING C - ELEVATIONS
DA3102	BUILDING D - ELEVATIONS
DA3103	BUILDING C+D - SECTIONS
DA3201	BUILDING C - SOLAR ACCESS
DA3202	BUILDING C - CROSS VENTILATION
DA3203	BUILDING C - GFA
DA3204	BUILDING D - SOLAR ACCESS
DA3205	BUILDING D - CROSS VENTILATION
DA3206	BUILDING D - GFA
DA6001	DEMOLITION PLAN - GROUND LEVEL
DA6002	DEMOLITION PLAN - LEVEL 1
DA6003	HOTEL BASEMENT LEVEL PLAN
DA6004	HOTEL LOWER GROUND LEVEL PLAN
DA6005	HOTEL GROUND LEVEL PLAN
DA6006	HOTEL LEVEL 1 PLAN
DA6007	HOTEL ROOF PLAN
DA6101	HOTEL ELEVATIONS - SHEET 1
DA6102	HOTEL ELEVATIONS - SHEET 2
DA6201	HOTEL SECTIONS - SHEET 1
DA6202	HOTEL SECTIONS - SHEET 2
DA7001	SHADOW DIAGRAMS - SHEET 1
DA7002	SHADOW DIAGRAMS - SHEET 2
DA7003	SUN EYE VIEWS

ABBREVIATIONS

A/C	AIR CONDITIONING
AL	ALUMINIUM
AO	ACCESS OPENING
AP	ACCESS PANEL
B	BOLLARD
BAL	BALUSTRADE
BDY	BOUNDARY
BH	BOREHOLE
BHD	BULKHEAD
BK	BRICK
BLDG	BUILDING
BLK	BLOCKWORK
BSN	BASIN
BTH	BATH
BWK	BRICKWORK
CB	CONCRETE BLOCK
CCTV	CLOSED CIRCUIT TELEVISION
CFC	COMPRESSED FIBROUS CEMENT
CHS	CIRCULAR HOLLOW SECTION
CJ	CONTROL JOINT
CL	CENTRE LINE
CLNR	CLEANER
COL	COLUMN
CON	CONCRETE
COS	CONFIRM ON SITE
CPD	CUPBOARD
CPT	CARPET
CR	CEMENT RENDER
CTR	CENTRE
D	DOOR
DG	DRIP GROOVE
DIA	DIAMETER
DIM	DIMENSION
DP	DOWNPIPE
DRG	DRAWING
EA	EACH
EDB	ELECTRICAL DISTRIBUTION BOARD
EJ	EXPANSION JOINT
EQ	EQUAL
ESB	ELECTRICAL SWITCHBOARD
EX / EXG	EXISTING (PRIOR TO)
EXT	EXTERNAL
FC	FIBROUS CEMENT
FCL	FINISHED CEILING LEVEL
FEN	FENCE
FFL	FINISHED FLOOR LEVEL
FGL	FINISHED GROUND LEVEL
FHR	FIRE HOSE REEL
FIP	FIRE INDICATOR PANEL
FLR	FLOOR
FRL	FIRE RESISTANCE LEVEL
FSL	FINISHED STRUCTURAL LEVEL
FW	FLOOR WASTE TO SEWER
GB	GLASS BALUSTRADE
GALV	GALVANISED
GD	GRATED DRAIN
GL	GLAZING
GPO	GENERAL PURPOSE (POWER) OUTLET
GT	GATE
GTP	GREASE TRAP
HYD	HYDRANT
HK	HOUSEKEEPING
HR	HANDRAIL
HW	HOT WATER
HWU	HOT WATER UNIT
IL	INVERT LEVEL
INCL	INCLUDE
INT	INTERNAL
J	JOINERY
KB	KERB
KG	KERB AND GUTTER
KIT	KITCHEN
LDY	LAUNDRY
LS	LOUVRE SCREEN
LV	LOUVRE
M	MIRROR
MC	METAL CLADDING
MDF	MEDIUM DENSITY FIBREBOARD
MISC	MISCELLANEOUS
MRS	METAL ROOF SHEETING
MS	MILD STEEL
MSB	MAIN SWITCHBOARD
NGL	NATURAL GROUND LEVEL
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OF	OVERFLOW-RAINWATER
OFC	OFF-FORM CONCRETE
OP	OPAQUE
P	PAINT (FINISH)
PAV	PAVING
PB	PLASTERBOARD
PEB	PEBBLE BALLAST
PFC	PARALLEL FLANGE CHANNEL
PLY	PLYWOOD
RA	RETURN AIR
RAD	RADIUS
RHS	RECTANGULAR HOLLOW SECTION
RL	REDUCED LEVEL
RW	RETAINING WALL
RWH	RAINWATER HEAD
RWO	RAINWATER OUTLET
RWP	RAINWATER PIPE
SA	SUPPLY AIR
SC	STEEL COLUMN
SCR	SUNSCREEN
SD	SEWER DRAIN
SFL	STRUCTURAL FLOOR LEVEL
SHR	SHOWER
SHS	SQUARE HOLLOW SECTION
SK	SKIRTING
SKL	SKYLIGHT
SP	SEWER PIT
SS	STAINLESS STEEL
ST	STONE
SVP	SEWER VENT PIPE
SWP	STORMWATER PIT
T	TILE
TGSI	TACTILE INDICATORS
TIM	TIMBER
TOK	TOP OF KERB
TOW	TOP OF WALL
TYP	TYPICAL
U/G	UNDERGROUND
U/S	UNDERSIDE
UB	UNIVERSAL BEAM
UC	UNIVERSAL COLUMN
UR	URINAL
W	WINDOW
WB	WEATHERBOARD
WC	WATER CLOSET
WP	WASTE PIPE

Drawing Status
NOT FOR CONSTRUCTION

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

Key

N

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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
COVER PAGE

Scale	Drawing No.	Issue
	DA0000	B

PLOT DATE & TIME: 25/08/2024 11:24:7 PM
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10. BUILDING ENTRY ARTICULATION AND PRIVACY SCREENS ADDED
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED

CAMDEN GOLF COURSE

CAMDEN GOLF CLUB SHED

PROPOSED ON-SITE DETENTION BASIN

EXISTING TREE LINED CARRIAGEWAY

STUDLEY PARK HOUSE

REINSTATE ORIGINAL TENNIS COURTS

RELOCATED ARMY BUTCHER SHOP

NEW FENCING TO PROTECT ROAD AND PATH FROM GOLF COURSE

PROPOSED ENTRANCE TO GOLF CLUB CARPARK

NEW PRACTICE / PUTTING GREEN

NEW REAR TEE

EXITING TEE TO BE RETAINED

NEW FORWARD TEE

EXITING PATH TO BE REMOVED

EXITING TEE'S TO BE REMOVED SHOWN DASHED

PROPOSED ACCESS DRIVEWAY TO STUDLEY PARK AND GOLF CLUB

PROPOSED DRIVEWAY ENTRANCE OFF EXISTING ROUNDABOUT AT LODGES ROAD

SOPHIA STREET

LOT 5
DP859872
CAMDEN GOLF COURSE

LOT 3
DP859872

LOT 1
DP859872
SITE AREA: 55321m²

SITE BOUNDARY

SITE BOUNDARY

SITE BOUNDARY

SITE BOUNDARY

SITE BOUNDARY

SITE BOUNDARY

SITE BOUNDARY

A

B

C

D

HOTEL

ENTRY PAVILION

ENTRY / EXIT

ENTRY

EXIT

ENTRY

CAMDEN GOLF COURSE

CAMDEN GOLF COURSE

REMNANT CUMBERLAND PLAIN BUSHLAND

CAMDEN GOLF COURSE

EXISTING GOLF CLUB CARPARK

EXISTING GOLF COURSE SHEDS

LODGES ROAD

EXISTING SUBURBAN DWELLINGS

PROPOSED SHARED ROAD SHOWN COLOURED IN BROWN

EXISTING EASEMENT FOR UNDERGROUND WATER PIPES 2m WIDE (DP859872)

PROPOSED ENTRY TO SITE

EXISTING GOLF CLUBHOUSE

EASEMENT FOR UNDERGROUND TELECOM CABLES 2m WIDE (DP859872)

RELOCATED GOLF PRO-SHOP

EXISTING CARPARK ENTRY

PROPOSED EXIT ONLY TO GOLF CLUB CARPARK USING EXISTING DRIVEWAY

Drawing Status
NOT FOR CONSTRUCTION

LEGEND

- EXISTING STUDLEY PARK HOUSE AND HERITAGE ITEMS (DINING HALL AND STABLES)
- EXISTING STRUCTURE TO BE REMOVED
- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED
- PROPOSED TREES
- PROPOSED ROADWAY ENTRY / EXIT
- PROPOSED 10KM SHARED ROADWAY
- ASSET PROTECTION ZONE (REFER TO BUSHFIRE REPORT)

REFER TO LANDSCAPE PLAN FOR EXTENT OF WORKS PROPOSED

REFER TO SURVEY FOR BOUNDARY DIMENSIONS

No	Date	Description	Ver'd	Appr'd
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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
SITE PLAN

Scale: As indicated @A1
Drawing No.: DA0001
Issue: B

0 10 20 40 80 m

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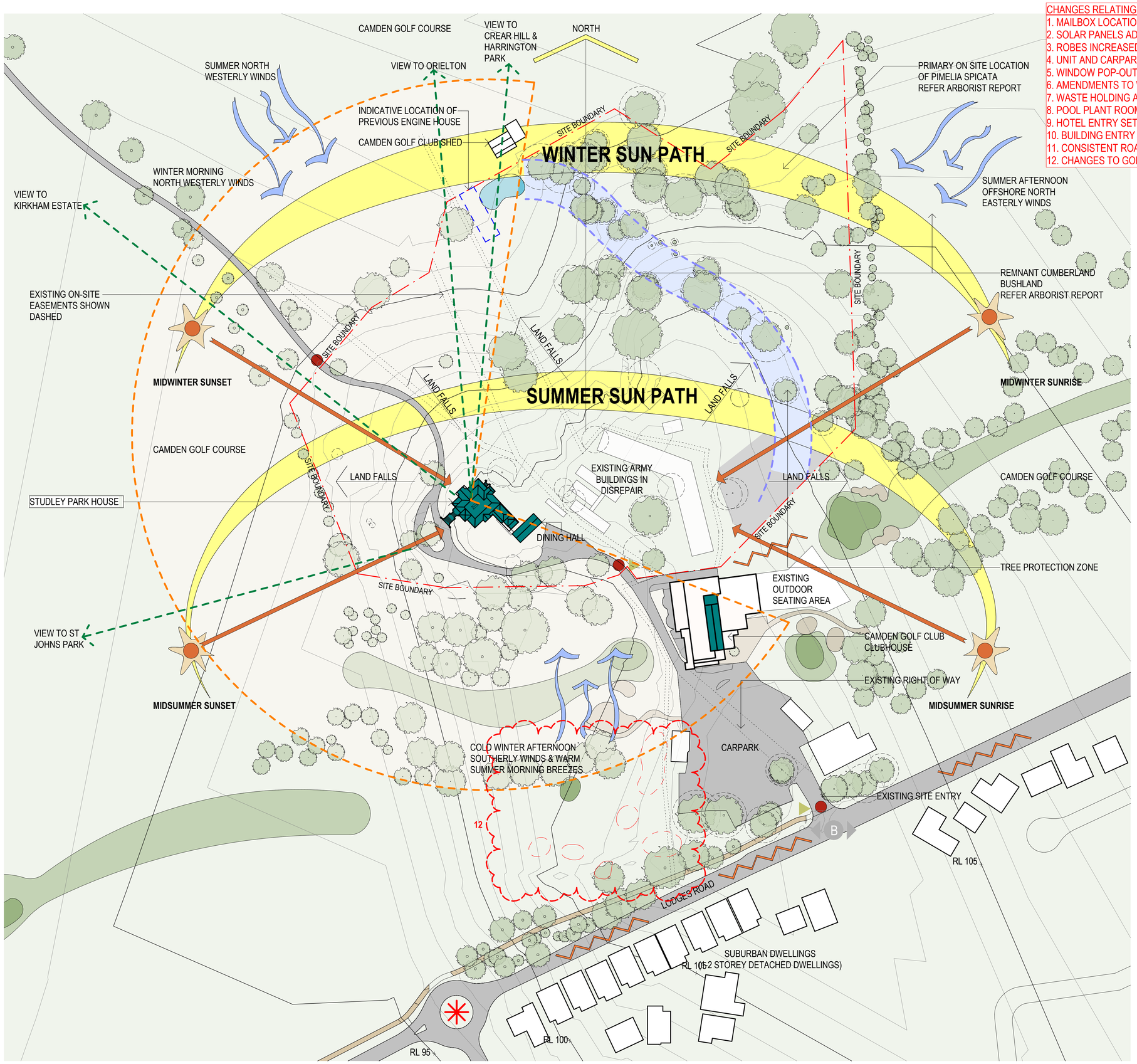

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10. BUILDING ENTRY ARTICULATION AND PRIVACY SCREENS ADDED
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED

KEY

- MAJOR INTERSECTION
- VEHICULAR ENTRY
- RL 27.000 — EXISTING RL
- PROJECT SITE EXISTING FALL
- EXISTING STUDLEY PARK HOUSE & CAMDEN GOLF CLUB CLUBHOUSE (HERITAGE)
- EXISTING GOLF COURSE HOLES
- PROPOSED HERITAGE CURTILAGE - SIGNIFICANT VIEW ARC FROM NORTH TO SOUTH-WEST
- KEY SIGHT LINES FROM PROJECT SITE
- ASSET PROTECTION ZONE (REFER TO BUSHFIRE REPORT)
- PREVAILING WINDS ACROSS PROJECT SITE
- REFER TO SURVEY FOR BOUNDARY DIMENSIONS
- PROJECT SITE NOISE HAZARD
- B — LOCAL BUS ROUTE
- PROJECT SITE PEDESTRIAN ENTRIES
- ON GRADE PARKING
- EXISTING TREES

1 SITE ANALYSIS PLAN
1 : 1000

Drawing Status
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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
SITE ANALYSIS PLAN (EXISTING)

Scale	Drawing No.	Issue
As indicated @A1	DA0002	B

0 10 20 40 80 m

Author
PLOTTED & CHECKED BY:
25/08/2024 1:13:47 PM
PLOT DATE & TIME:

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12. CHANGES TO GOLF COURSE AS REQUIRED

TOTAL OF 19 TREES TO BE REMOVED
HIGH SIGNIFICANT = 1
MODERATE SIGNIFICANT = 12
LOW SIGNIFICANT = 3
VERY LOW SIGNIFICANT = 3

REFER TO ARBORISTS REPORT FOR DETAILS OF TREES ALLOCATED FOR REMOVAL

OUTLINE OF PROPOSED BUILDINGS DHOWN DASHED
REMOVE EXISTING EASEMENT & OVERHEAD POWER LINES
REMOVE EXISTING FENCE
REMOVE EXISTING TANK
RETAIN AND RESTORE STUDLEY PARK HOUSE (REFER TO SCHEDULE OF CONSERVATION WORKS)
RETAIN AND RESTORE DINING HALL
EXISTING "ARMY BUTCHER SHOP' TO BE RELOCATED AS TENNIS PAVILION
CAMDEN GOLF COURSE
CAMDEN GOLF COURSE
CAMDEN GOLF COURSE
SITE BOUNDARY
T37 TO BE REMOVED
T30 TO BE REMOVED
T80 TO BE REMOVED
T29 TO BE REMOVED
T28 TO BE REMOVED
T20 TO BE REMOVED
T24 TO BE REMOVED
T1& T2 TO BE REMOVED
T89 & T90 TO BE REMOVED
T25-27 TO BE REMOVED
T5 TO BE REMOVED
T10 TO BE REMOVED
T15, T16 & T17 TO BE REMOVED
DEMOLISH EXISTING ARMY BARRACKS
GOLF CLUBHOUSE
GOLF CLUB PRO SHOP TO BE REMOVED AND RELOCATED FOR NEW DRIVEWAY ACCESS
EXISTING CLUB CARPARK
PRACTICE GREEN TO BE RELOCATED
12
EXISTING GOLF COURSE GREENS TO BE REMOVED / RELOCATED
EXISTING CLUB VEHICULAR ENTRY
LODGES ROAD
SUBURBAN DWELLINGS

Drawing Status
NOT FOR CONSTRUCTION

LEGEND
- EXISTING STUDLEY PARK HOUSE AND HERITAGE ITEMS (DINING HALL AND STABLES)
- EXISTING STRUCTURE TO BE REMOVED
- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED
- PROPOSED TREES
- PROPOSED ROADWAY ENTRY / EXIT
- PROPOSED 10KM SHARED ROADWAY
- ASSET PROTECTION ZONE (REFER TO BUSHFIRE REPORT)

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Project
STUDLEY PARK
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NSW 2567

Proj No. 16060

Drawing Title
SITE DEMOLITION PLAN

Scale	Drawing No.	Issue
As indicated @A1	DA0003	B

0 10 20 40 80 m

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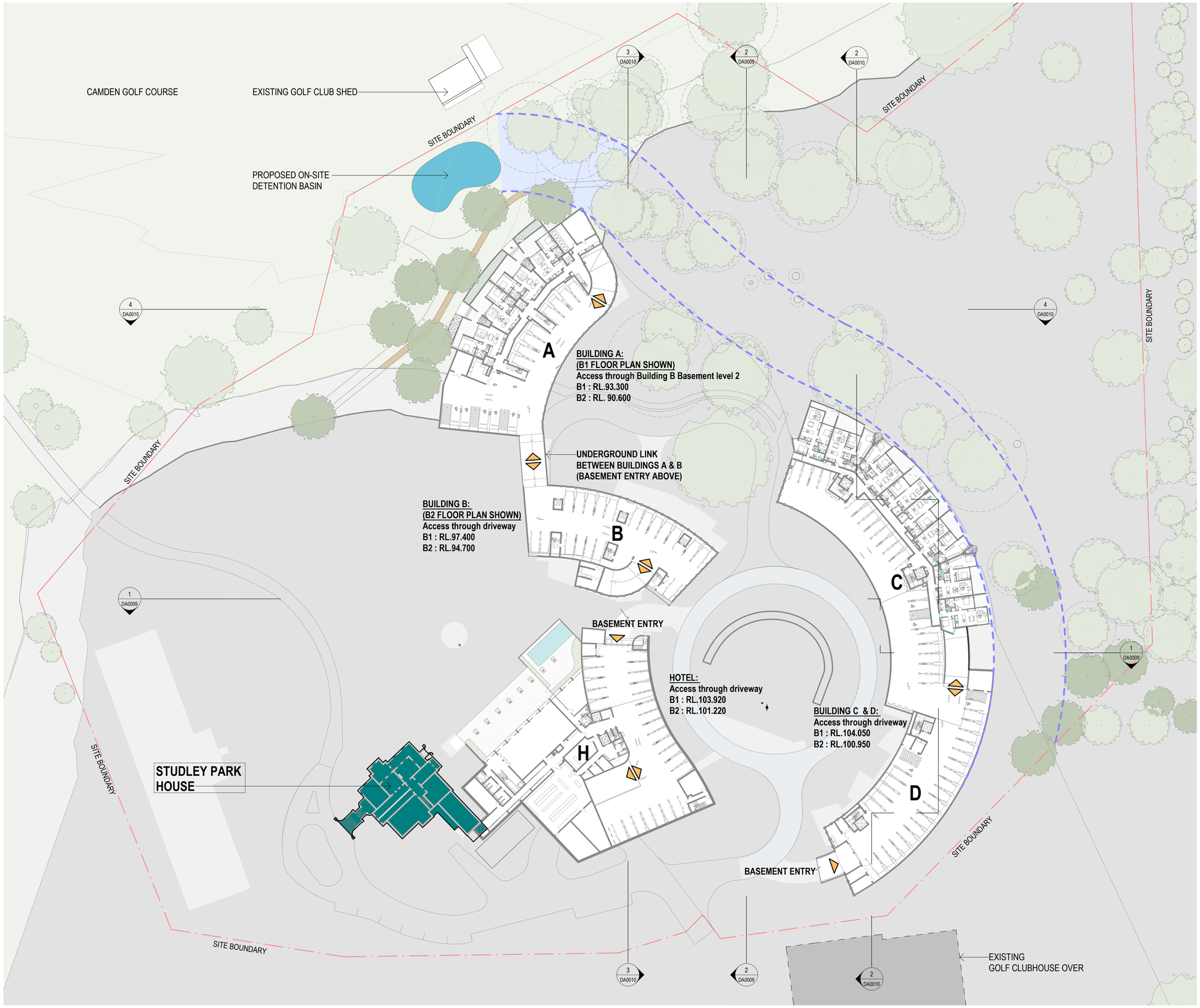

Drawing Status

NOT FOR CONSTRUCTION

LEGEND

- EXISTING STUDLEY PARK HOUSE (HERITAGE)
- EXISTING STRUCTURE TO BE RETAINED
- EXISTING STRUCTURE TO BE REMOVED
- PROPOSED STRUCTURE
- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED
- PROPOSED TREES
- PROPOSED ROADWAY ENTRY
- PROPOSED SHARED ROADWAY
- PROPOSED VEHICULAR BUILDING ENTRY & CIRCULATION ROUTES
- PROPOSED PEDESTRIAN BUILDING ENTRY
- ASSET PROTECTION ZONE (REFER TO BUSHFIRE REPORT)

RESIDENTIAL PARKING SCHEDULE

BUILDING	A	B	C+D
RESIDENTS	45	32	102
ACCESSIBLE	5	4	12
VISITORS	7	6	17
BICYCLES	11	7	35
TOTAL CARS	57	42	131

TOTAL RESIDENTIAL DEVELOPMENT PARKING = 230

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STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title

SITE BASEMENT LEVEL 1 PLAN

Scale	Drawing No.	Issue
As indicated @A1	DA0004	B

0 5 10 20 40 m

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11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED

CAMDEN GOLF COURSE
EXISTING GOLF CLUB SHED
SITE BOUNDARY
FIRE TRUCK TURNING BAY
RL 102
3 CARS
3 CARS
3 CARS
FORMER ARMY BUTCHER SHOP RELOCATED AS TENNIS PAVILLION
STUDLEY PARK HOUSE
DINING HALL
LOADING BAY
6 CARS
EXISTING GOLF CLUBHOUSE
A
B
C
D
H
11
9

Drawing Status
NOT FOR CONSTRUCTION

LEGEND

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- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED
- PROPOSED TREES
- PROPOSED ROADWAY ENTRY / EXIT
- PROPOSED 10KM SHARED ROADWAY
- ASSET PROTECTION ZONE (REFER TO BUSHFIRE REPORT)

KEY

- 1 BED
- 1 BED+S
- 2 BED
- 2 BED+S
- 3 BED

TOTAL

Name	Count
1 BED	16
1 BED +	2
1 BED+	22
2 BED	22
2 BED +	50
2 BED+	21
3 BED	15
Grand total: 148	

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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
SITE GROUND LEVEL PLAN

Scale	Drawing No.	Issue
As indicated @A1	DA0005	B

0 5 10 20 40 m

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12. CHANGES TO GOLF COURSE AS REQUIRED

EXISTING GOLF CLUB SHED

PROPOSED ON-SITE DETENTION BASIN

INDICATIVE LOCATION OF PREVIOUSLY DEMOLISHED ARMY ENGINE HOUSE

SITE BOUNDARY 99185

SITE BOUNDARY 99517

SITE BOUNDARY 49580

SITE BOUNDARY 202388

SITE BOUNDARY 49775

SITE BOUNDARY 46335

SITE BOUNDARY 46328

A

B

C

D

H

FIRE TRUCK TURNING BAY

VILLAGE GREEN

3 CARS

3 CARS

3 CARS

EXISTING CARRIAGEWAY

REINSTATE ORIGINAL TENNIS COURTS

FORMER ARMY BUTCHER SHOP RELOCATED AS TENNIS PAVILLION

STUDLEY PARK HOUSE

EXISTING DINING HALL

HOTEL PORTE COCHERE

LOADING BAY

COACH PARKING

6 CARS

SUBSTATIONS

EXISTING GOLF COURSE GREEN

EXISTING GOLF CLUBHOUSE

RL 97.100

RL 105.000

RL 102.00

RL 106.755

RL 106.345

RL 104.680

44812

72400

16730

6310

7800

LEGEND

- EXISTING STUDLEY PARK HOUSE (HERITAGE)
- EXISTING STRUCTURE TO BE RETAINED
- EXISTING STRUCTURE TO BE REMOVED
- PROPOSED STRUCTURE
- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED
- PROPOSED TREES
- PROPOSED ROADWAY ENTRY
- PROPOSED SHARED ROADWAY
- ASSET PROTECTION ZONE (REFER TO BUSHFIRE REPORT)
- PROPOSED VEHICULAR BUILDING ENTRY
- PROPOSED PEDESTRIAN BUILDING ENTRY

REFER TO LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILED LANDSCAPE DESIGN

Drawing Status
NOT FOR CONSTRUCTION

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

Key

N

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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
SITE ROOF PLAN

Scale: As indicated @A1
Drawing No.: DA0006
Issue: B

0 5 10 20 40 m

PLOTTED & CHECKED BY: Author
PLOT DATE & TIME: 23/08/2024 1:15:29 PM

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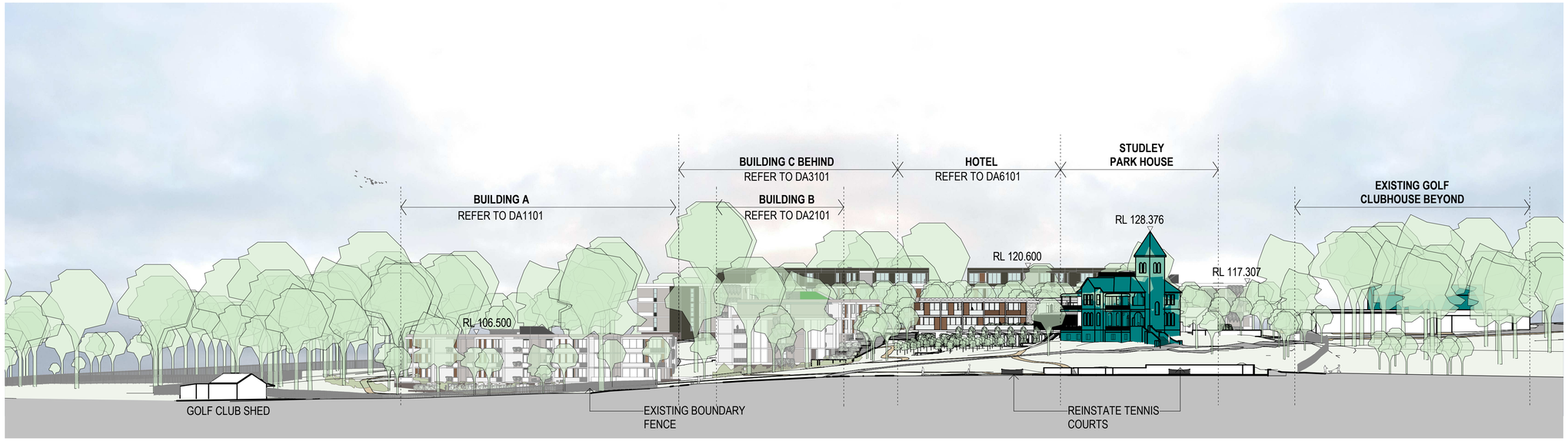
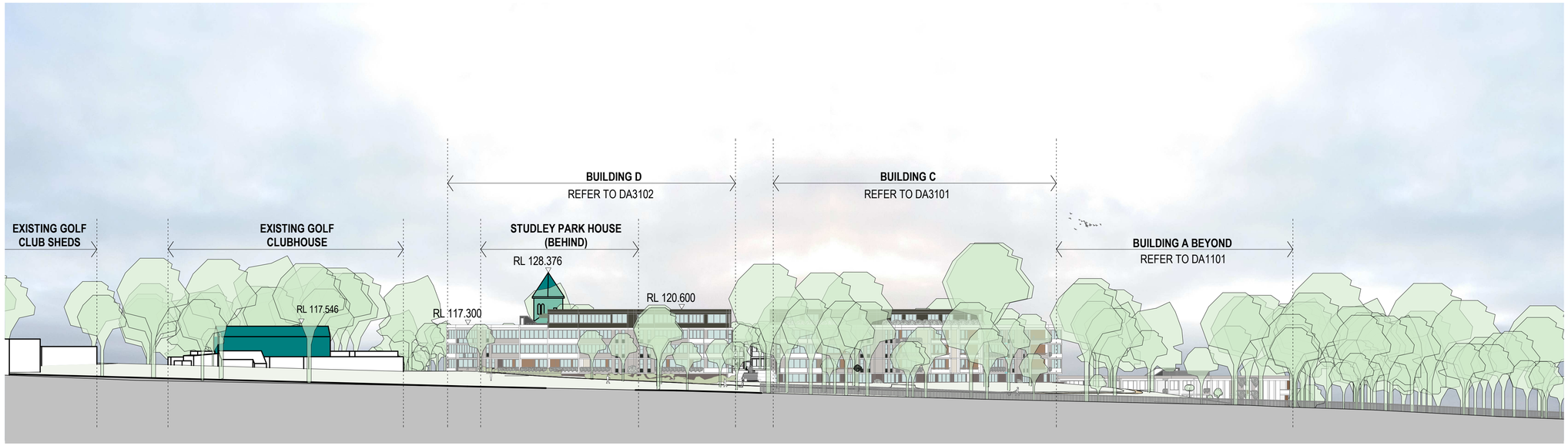


1 SITE - WEST ELEVATION
1 / DA0005 1 : 500



2 SITE - EAST ELEVATION
1 / DA0005 1 : 500

Drawing Status
NOT FOR CONSTRUCTION

No	Date	Description	Ver'd	Appr'd
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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
SITE ELEVATIONS - SHEET 1

Scale	Drawing No.	Issue
1 : 500 @A1	DA0007	B

0 5 10 20 40 m

PLOT DATE & TIME: 25/08/2024 11:16:00 PM
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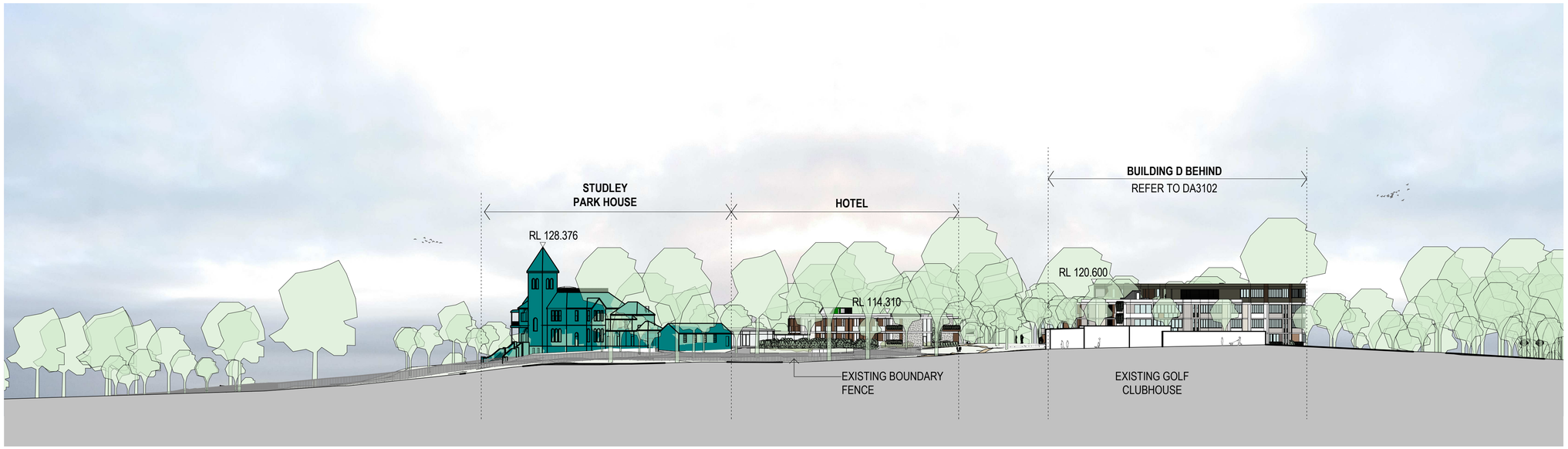
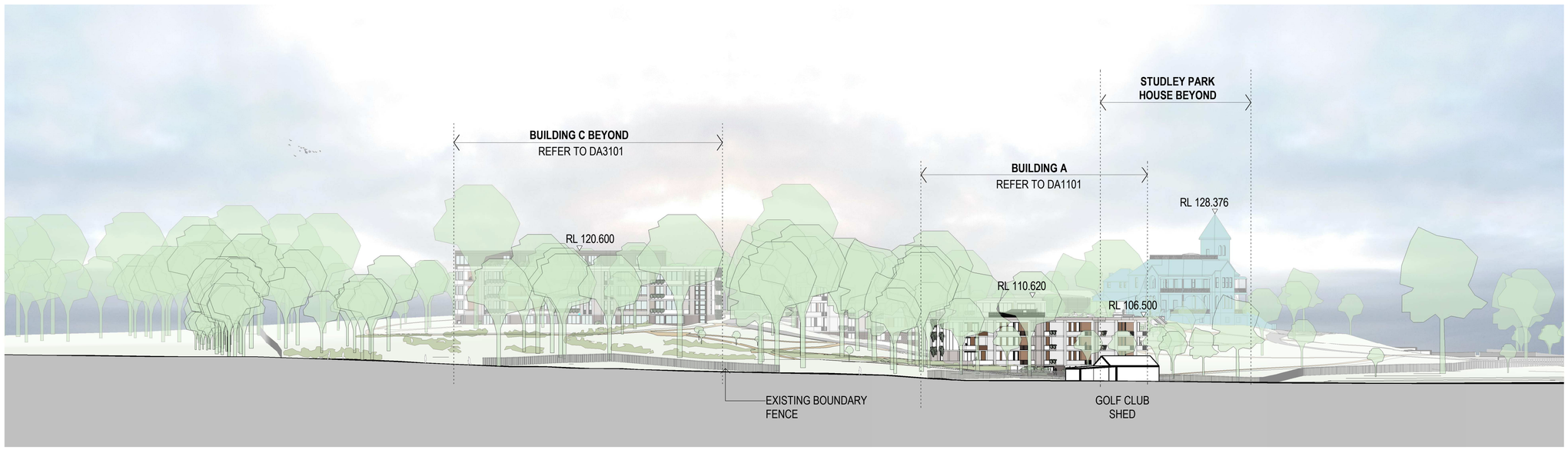


1 SITE - SOUTH ELEVATION
1 / DA0005 1 : 500



2 SITE - NORTH ELEVATION
1 / DA0005 1 : 500

Drawing Status
NOT FOR CONSTRUCTION

No	Date	Description	Ver'd	Appr'd
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Revisions

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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
SITE ELEVATIONS - SHEET 2

Scale	Drawing No.	Issue
1 : 500 @A1	DA0008	B

0 5 10 20 40 m

PLOTTED & CHECKED BY: Author
PLOT DATE & TIME: 25/08/2024 11:18:09 PM

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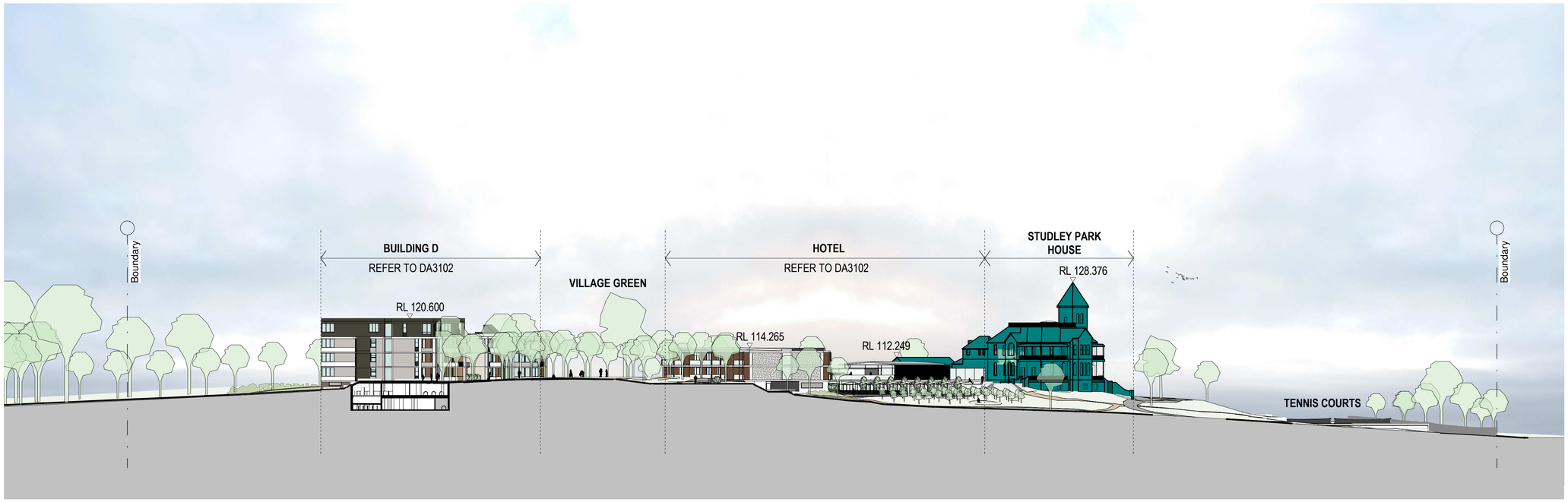

1 SITE SECTION 1
1 / DA0004 1 : 500



2 SITE SECTION 2
1 / DA0004 1 : 500

Drawing Status
NOT FOR CONSTRUCTION

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
SITE SECTIONS - SHEET 1

Scale: 1 : 500 @A1
Drawing No.: DA0009
Issue: B

0 5 10 20 40 m

PLOT DATE & TIME: 25/08/2024 1:18:45 PM
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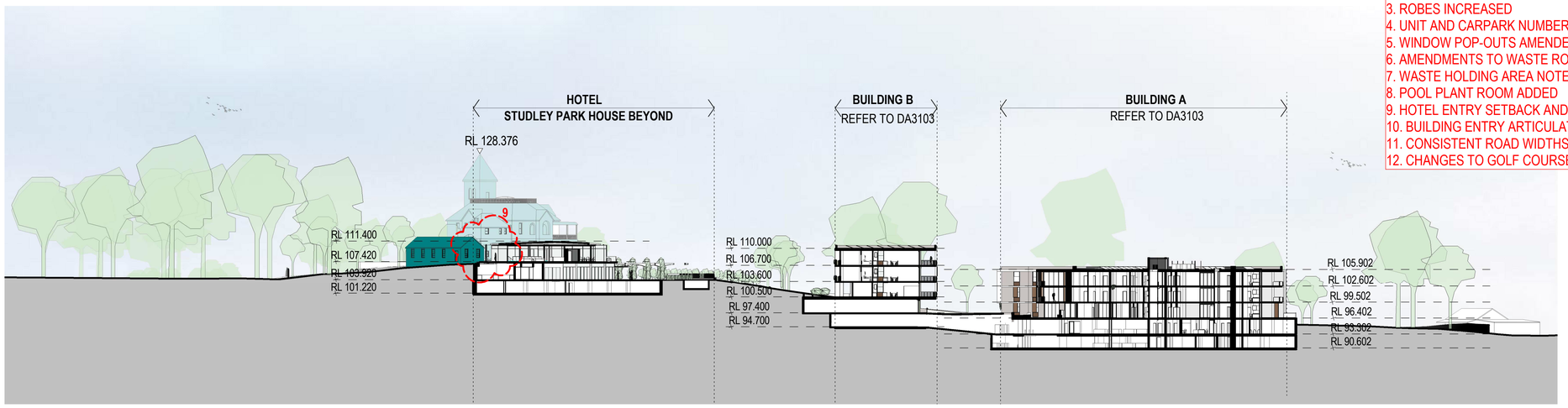
CHANGES RELATING TO COUNCIL'S RFI:
1. MAILBOX LOCATIONS ADDED
2. SOLAR PANELS ADDED TO ROOFS
3. ROBES INCREASED
4. UNIT AND CARPARK NUMBERS ADDED
5. WINDOW POP-OUTS AMENDED TO WIDEN DISTANCE
6. AMENDMENTS TO WASTE ROOMS
7. WASTE HOLDING AREA NOTED
8. POOL PLANT ROOM ADDED
9. HOTEL ENTRY SETBACK AND AMENITIES WING ADDED
10. BUILDING ENTRY ARTICULATION AND PRIVACY SCREENS ADDED
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED

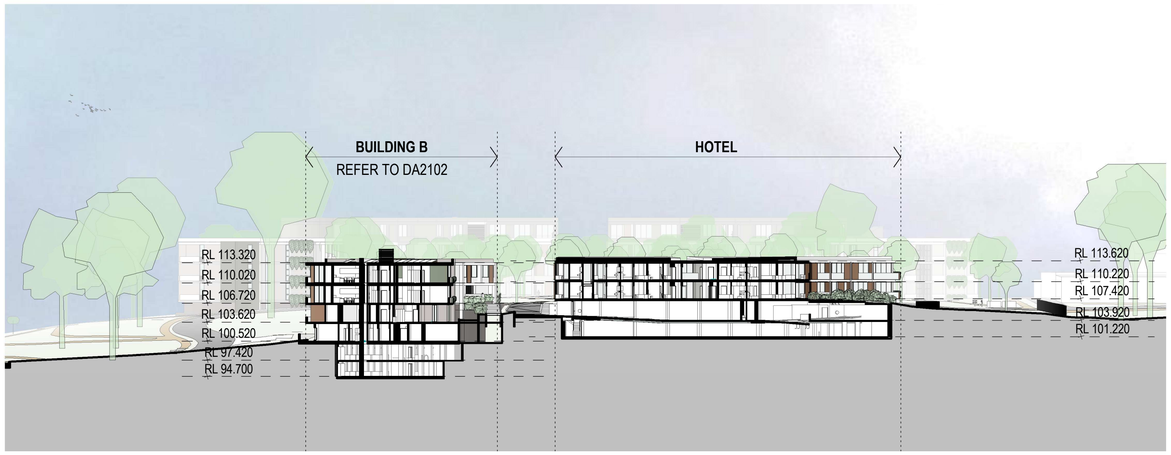
Drawing Status
NOT FOR CONSTRUCTION



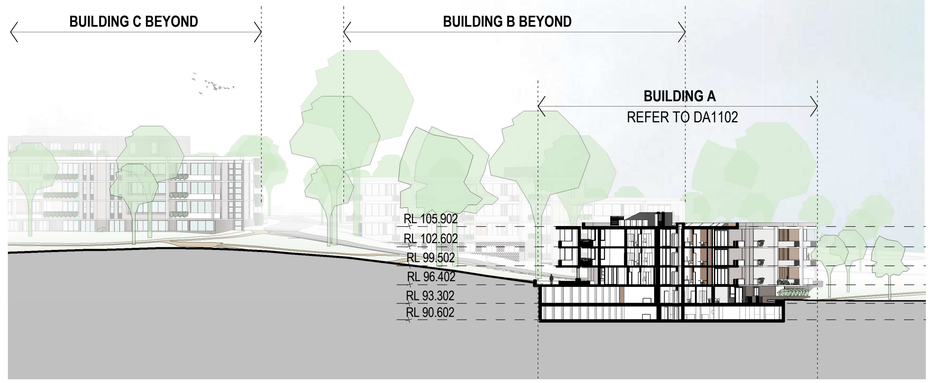
1 SITE SECTION 3
1 / DA0005 1 : 500



2 SITE SECTION 4
1 / DA0004 1 : 500



3 SITE SECTION 5
1 / DA0004 1 : 500



4 SITE SECTION 6
1 / DA0004 1 : 500

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
SITE SECTIONS - SHEET 2

Scale	Drawing No.	Issue
As indicated @A1	DA0010	B

0 1 2 4 8 m

PLOT DATE & TIME: 25/08/2024 1:19:38 PM
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SITE BOUNDARY

SITE BOUNDARY

SITE BOUNDARY

SITE BOUNDARY

SITE BOUNDARY

1
DA0008

EXISTING CAMDEN GOLF CLUB CLUBHOUSE

PROPOSED ASPHALT DRIVEWAY

EXISTING GOLF COURSE

PROPOSED ONE-WAY ENTRY TO GOLF CLUB CARPARK

12

GOLF CLUB PRO-SHOP TO BE RELOCATED

EXISTING GOLF CLUB CARPARKING

EXISTING GOLF CLUB SHED

EXISTING GOLF COURSE

EXISTING TEE TO REMAIN

PROPOSED NEW TEE

PROPOSED ONE-WAY EXIT TO GOLF CLUB CARPARK

EXISTING GOLF COURSE TEES TO BE REMOVED SHOWN SHADED IN RED

EXISTING GOLF CLUB DRIVEWAY FOR SERVICE VEHICLES EGRESS ONLY

EARTHWORK BATTER TO PROPOSED ACCESS DRIVEWAY - REFER TO CIVIL ENGINEER'S DOCUMENTATION

RELOCATED PRACTICE GREEN

EXISTING FOOTPATH ALONG LODGES ROAD

LODGES ROAD

PROPOSED TREE PLANTING (REFER TO LANDSCAPE ARCHITECT'S DOCUMENTATION

PROPOSED ASPHALT DRIVEWAY ACCESS TO STUDLEY PARK AND GOLF CLUB

EXISTING SUBURBAN DWELLINGS (1-2 STOREY DETACHED DWELLINGS)

PROPOSED DRIVEWAY ACCESS FROM EXISTING ROUND ABOUT

SOPHIA STREET

CHANGES RELATING TO COUNCIL'S RFI:
1. MAILBOX LOCATIONS ADDED
2. SOLAR PANELS ADDED TO ROOFS
3. ROBES INCREASED
4. UNIT AND CARPARK NUMBERS ADDED
5. WINDOW POP-OUTS AMENDED TO WIDEN DISTANCE
6. AMENDMENTS TO WASTE ROOMS
7. WASTE HOLDING AREA NOTED
8. POOL PLANT ROOM ADDED
9. HOTEL ENTRY SETBACK AND AMENITIES WING ADDED
10. BUILDING ENTRY ARTICULATION AND PRIVACY SCREENS ADDED
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED

Drawing Status
NOT FOR CONSTRUCTION

LEGEND

- EXISTING STUDLEY PARK HOUSE AND HERITAGE ITEMS (DINING HALL AND STABLES)
- EXISTING STRUCTURE TO BE REMOVED
- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED
- PROPOSED TREES
- PROPOSED ROADWAY ENTRY / EXIT
- PROPOSED 10KM SHARED ROADWAY
- ASSET PROTECTION ZONE (REFER TO BUSHFIRE REPORT)

REFER TO TRAFFIC ENGINEER'S REPORT AND CIVIL ENGINEER'S DRAWINGS

REFER TO LANDSCAPE ARCHITECT'S DRAWINGS

No	Date	Description	Ver'd	Appr'd
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Revisions

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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
ACCESS DRIVEWAY PLAN

Scale	Drawing No.	Issue
As indicated @A1	DA0011	B

0 5 10 20 40 m

PLOTTED & CHECKED BY: Author
PLOT DATE & TIME: 26/08/2024 1:20:00 PM

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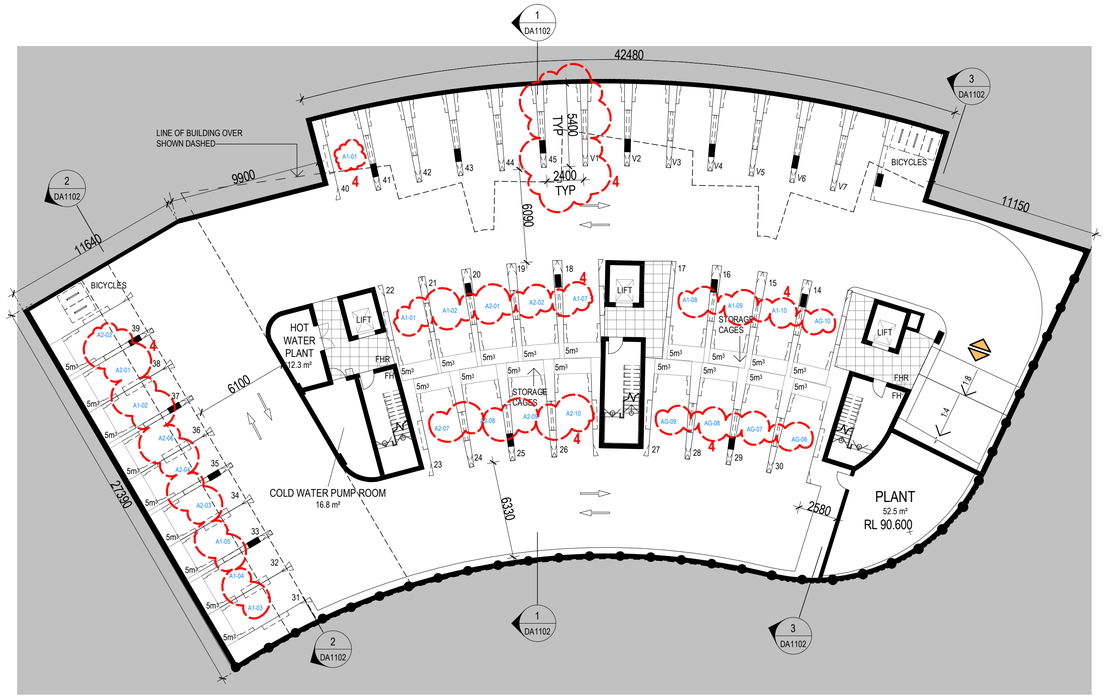

1 BUILDING A - BASMENT 2 (FFL90.600)
1 : 200



2 BUILDING A - BASEMENT 1 (FFL93.300)
1 : 200

CHANGES RELATING TO COUNCIL'S RFI:
1. MAILBOX LOCATIONS ADDED
2. SOLAR PANELS ADDED TO ROOFS
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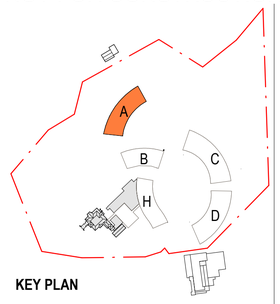
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

LEGEND

- 1 BED
- 1 BED+S
- 2 BED
- 2 BED+S
- 3 BED

ACCESS

- PEDESTRIAN ENTRY
- VEHICULAR ENTRY

BUILDING A APARTMENT SCHEDULE

Name	Count
1 BED+	13
2 BED	5
2 BED+	10
3 BED	6

Grand total: 34

RESIDENT CAR SPACE (2.4m)	45
VISITOR CAR SPACE (2.4m)	7
BUILDING A CARPARKING	**52**
ACCESSIBLE CAR SPACE	5
BICYCLE PARKING	12
MOTORBIKE PARKING	0

No	Date	Description	Ver'd	Appr'd
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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING A - BASEMENT PLANS

Scale	Drawing No.	Issue
As indicated @A1	DA1001	B

0 1 2 4 8 m

Author
PLOTTED & CHECKED BY:
25/08/2024 1:22:20 PM
PLOT DATE & TIME:

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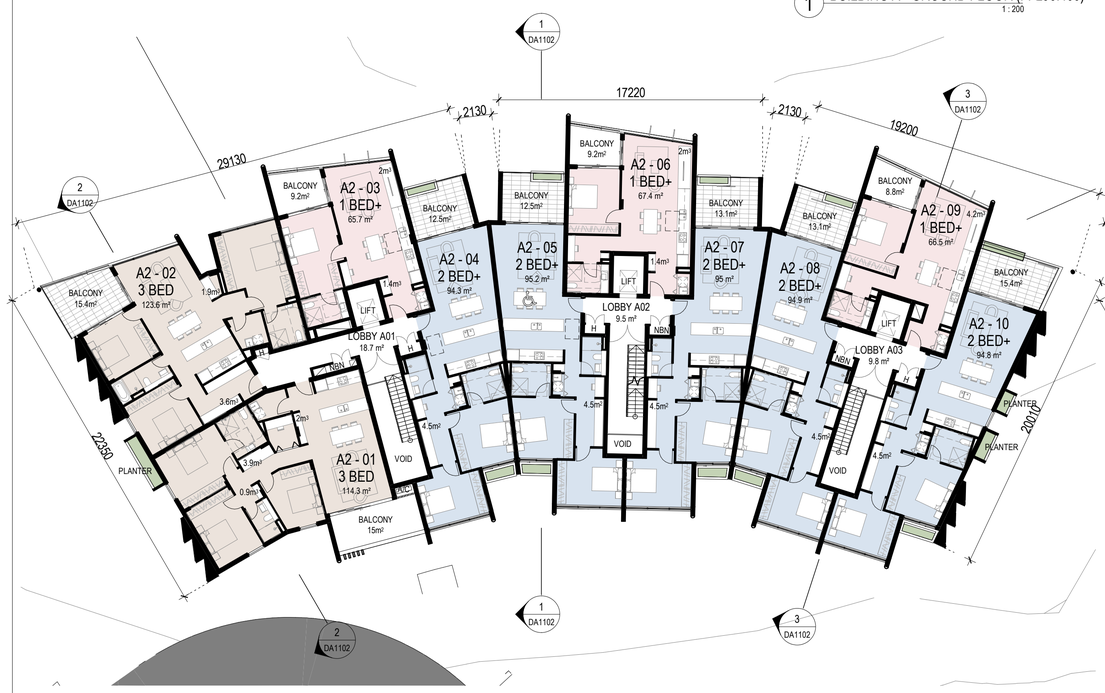
12. CHANGES TO GOLF COURSE AS REQUIRED



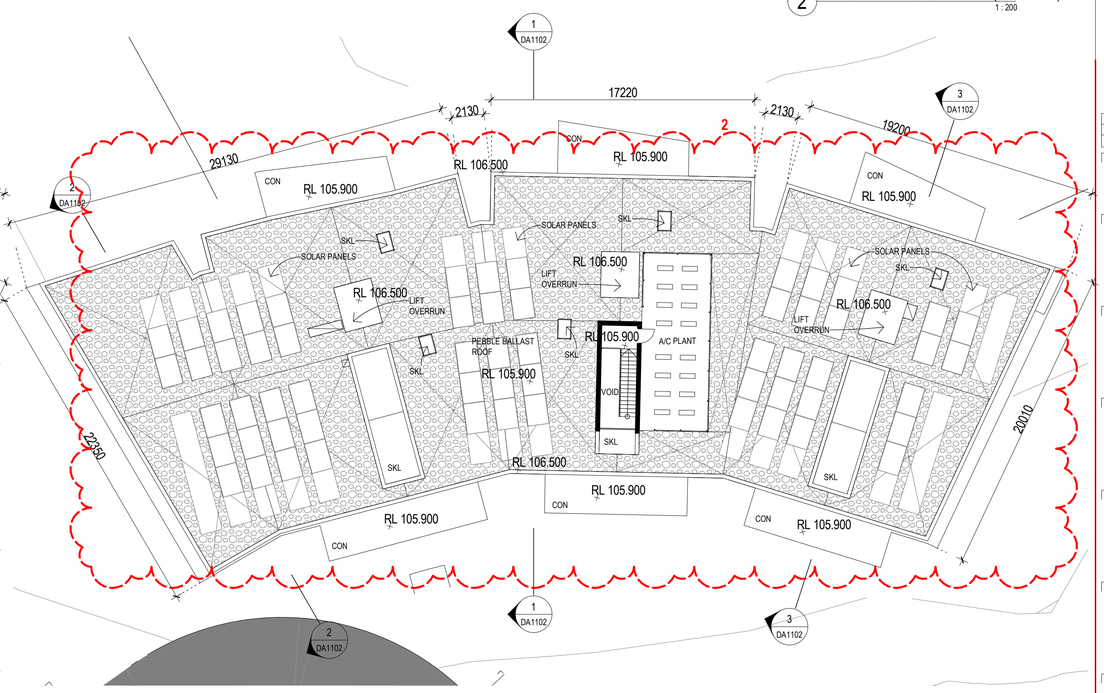
1 BUILDING A - GROUND FLOOR (FFL96.400)
1 : 200



2 BUILDING A - LEVEL 1 PLAN (FFL99.500)
1 : 200

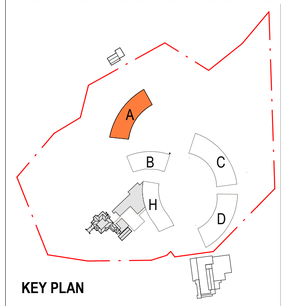


3 BUILDING A - LEVEL 2 PLAN (FFL102.600)
1 : 200



4 BUILDING A - ROOF PLAN (FFL105.900)
1 : 200

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

LEGEND
- 1 BED
- 1 BED+S
- 2 BED
- 2 BED+S
- 3 BED

ACCESS
- PEDESTRIAN ENTRY
- VEHICULAR ENTRY

BUILDING A APARTMENT SCHEDULE

Name	Count
1 BED+	13
2 BED	5
2 BED+	10
3 BED	6
Grand total: 34	

No	Date	Description	Ver'd	Appr'd
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52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING A - FLOOR PLANS

Scale	Drawing No.	Issue
As indicated @A1	DA1002	B

0 1 2 4 8 m

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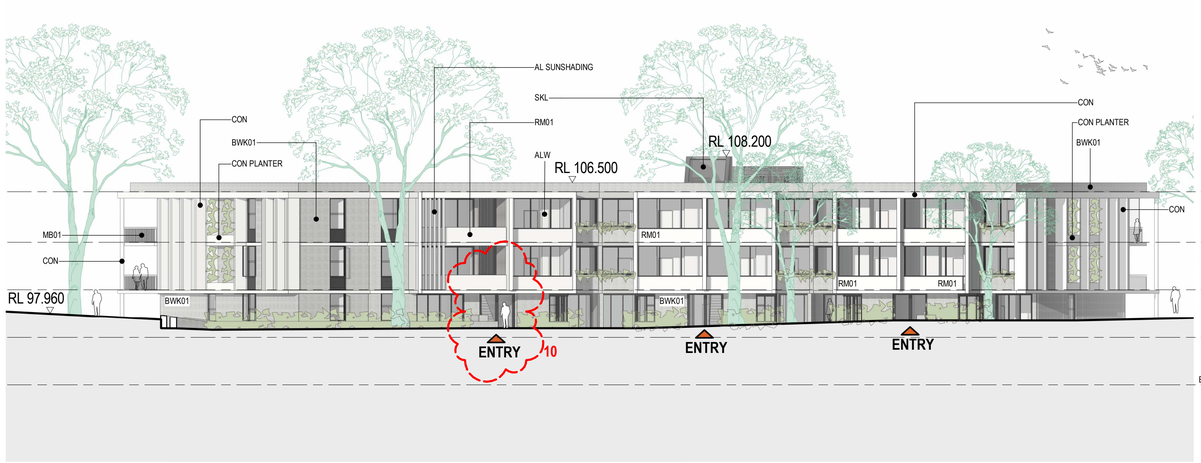
7. WASTE HOLDING AREA NOTED
8. POOL PLANT ROOM ADDED
9. HOTEL ENTRY SETBACK AND AMENITIES WING ADDED
10. BUILDING ENTRY ARTICULATION AND PRIVACY SCREENS ADDED
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED



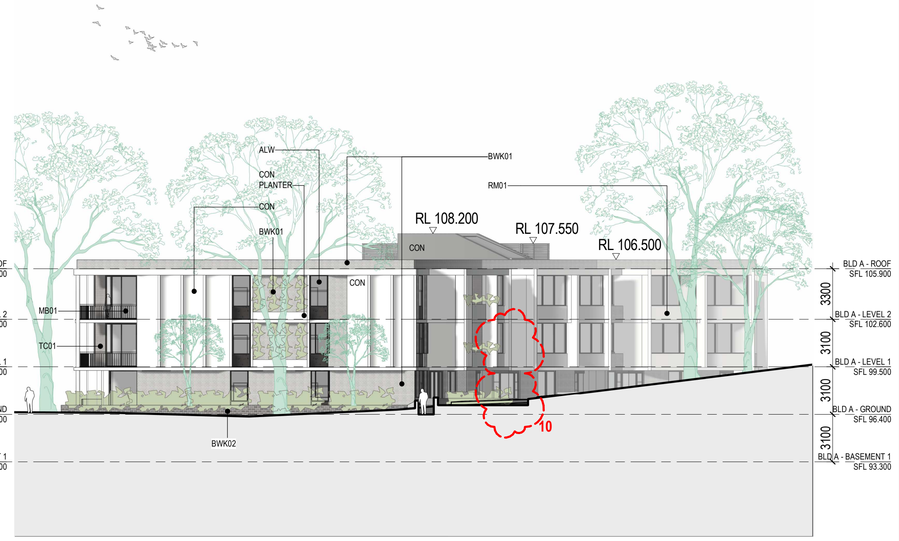
1 BUILDING A - WEST ELEVATION
1 / DA0006 1 : 200



2 BUILDING A - NORTH ELEVATION
1 / DA0006 1 : 200

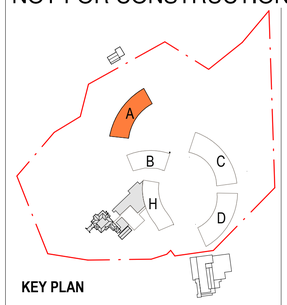


3 BUILDING A - EAST ELEVATION
1 / DA0006 1 : 200



4 BUILDING A - SOUTH ELEVATION
1 : 200

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

Key

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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING A - ELEVATIONS

Scale	Drawing No.	Issue
As indicated @A1	DA1101	B

0 1 2 4 8 m

PLOT DATE & TIME: 25/08/2024 1:23:43 PM
PLOTTED & CHECKED BY: Author

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CHANGES RELATING TO COUNCIL'S RFI:
1. MAILBOX LOCATIONS ADDED
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3. ROBES INCREASED
4. UNIT AND CARPARK NUMBERS ADDED
5. WINDOW POP-OUTS AMENDED TO WIDEN DISTANCE
6. AMENDMENTS TO WASTE ROOMS
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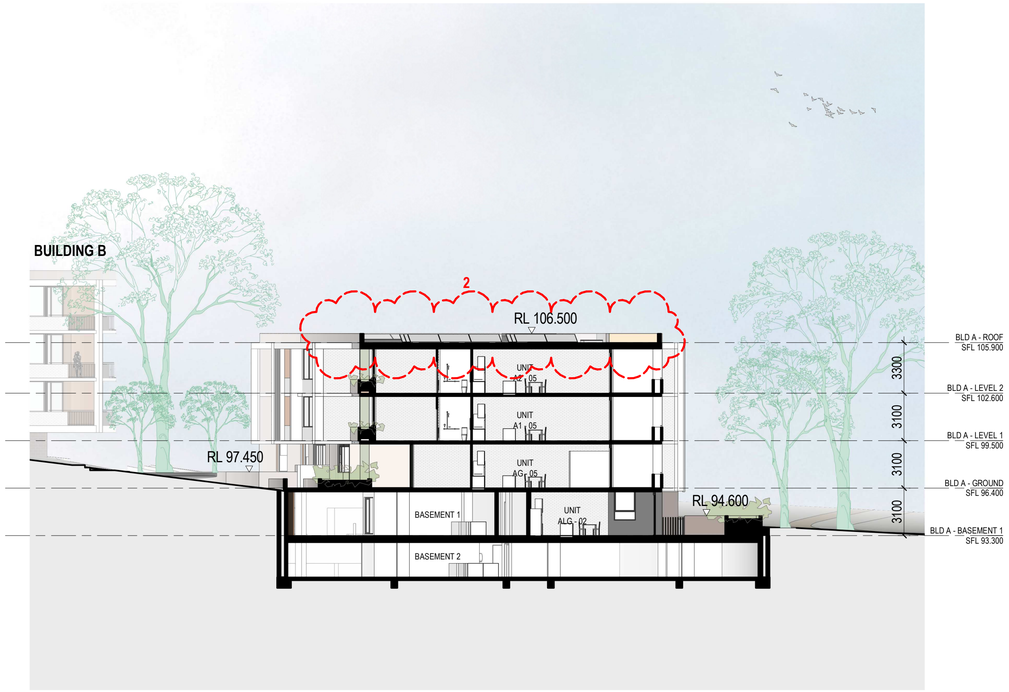
8. POOL PLANT ROOM ADDED
9. HOTEL ENTRY SETBACK AND AMENITIES WING ADDED
10. BUILDING ENTRY ARTICULATION AND PRIVACY SCREENS ADDED
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED



1 BUILDING A - SECTION 01
1 / DA1001 1 : 200

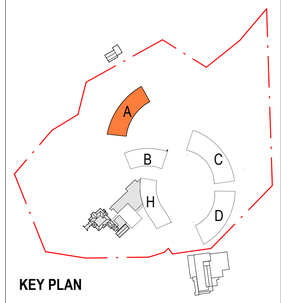


2 BUILDING A - SECTION 02
1 / DA1001 1 : 200



3 BUILDING A - SECTION 03
1 / DA1001 1 : 200

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING A - SECTIONS

Scale: As indicated @A1
Drawing No.: DA1102
Issue: B

0 1 2 4 8 m

PLOT DATE & TIME: 25/08/2024 1:24:03 PM
PLOTTED & CHECKED BY: Author

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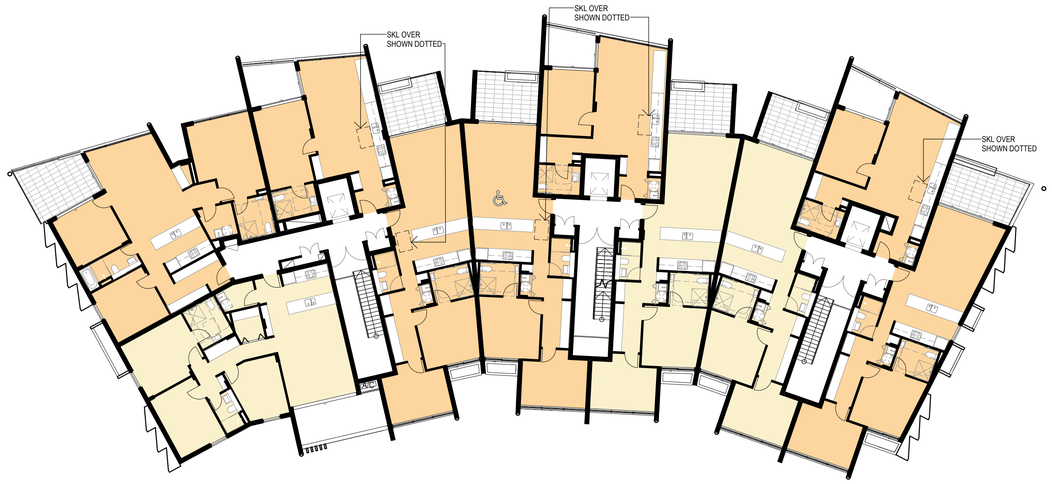
1 BUILDING A - LOWER GROUND - SOLAR
1 : 200



2 BUILDING A - GROUND FLOOR - SOLAR
1 : 200



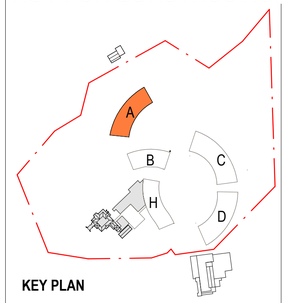
3 BUILDING A - LEVEL 1 PLAN - SOLAR
1 : 200



4 BUILDING A - LEVEL 2 PLAN - SOLAR
1 : 200

NOTE: NATURAL SUNLIGHT (SOLAR ACCESS) THROUGH SKYLIGHTS

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

KEY - SOLAR ACCESS

- 1.5 HOURS
- 2 HOURS
- 3 HOURS +

SCHEDULE SUMMARY

0-1 HOURS	0
1.5 HOURS	4
2 HOURS	11
2.5 HOURS	0
3+ HOURS	19

TOTAL NUMBER OF APARTMENTS = 34

88%

> 2 HOUR SOLAR ACCESS

ADG MINIMUM = 70%

56%

> 3 HOUR SOLAR ACCESS

SOLAR ANALYSIS BASED ON WINTER EQUINOX - 22 JUNE

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
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STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING A - SOLAR ACCESS

Scale	Drawing No.	Issue
As indicated @A1	DA1201	B

0 1 2 4 8 m

PLOT DATE & TIME: 25/08/2024 1:24:16 PM
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3. ROBES INCREASED
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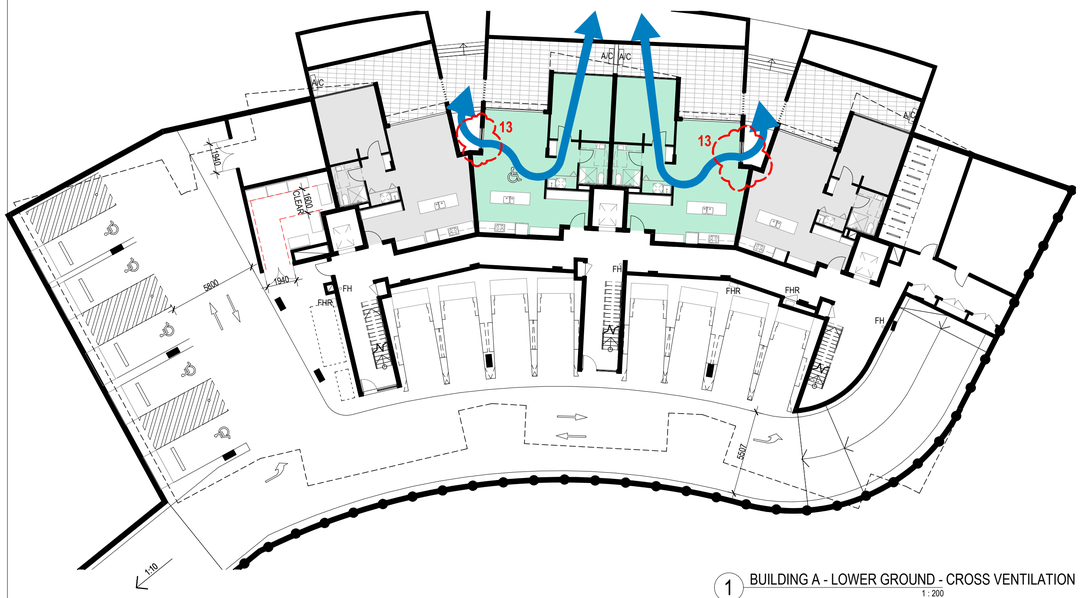
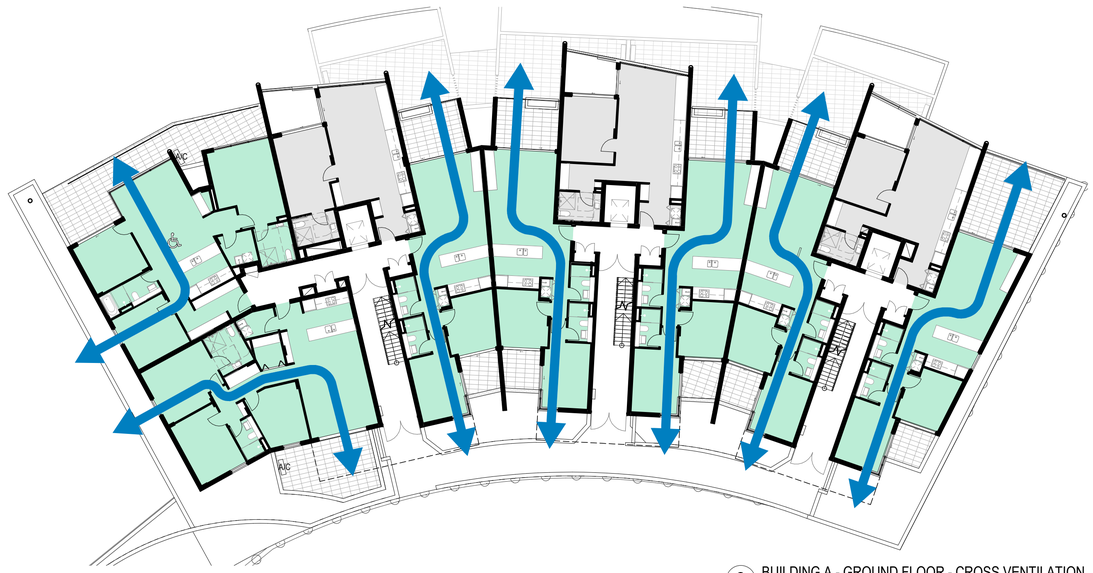
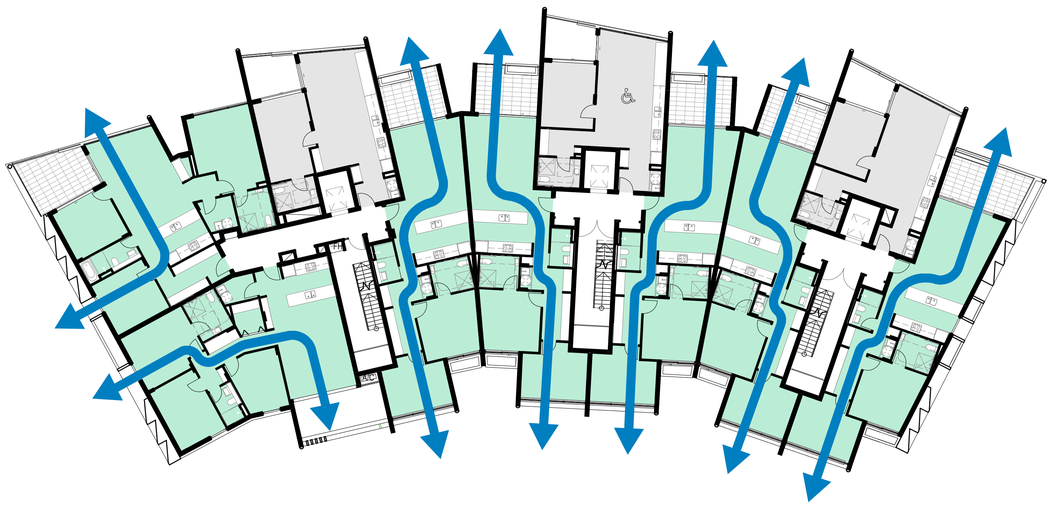
10. BUILDING ENTRY ARTICULATION AND PRIVACY SCREENS ADDED
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED
13. LIVING ROOM WINDOW INCREASED TO ALLOW FOR CROSS VENTILATION



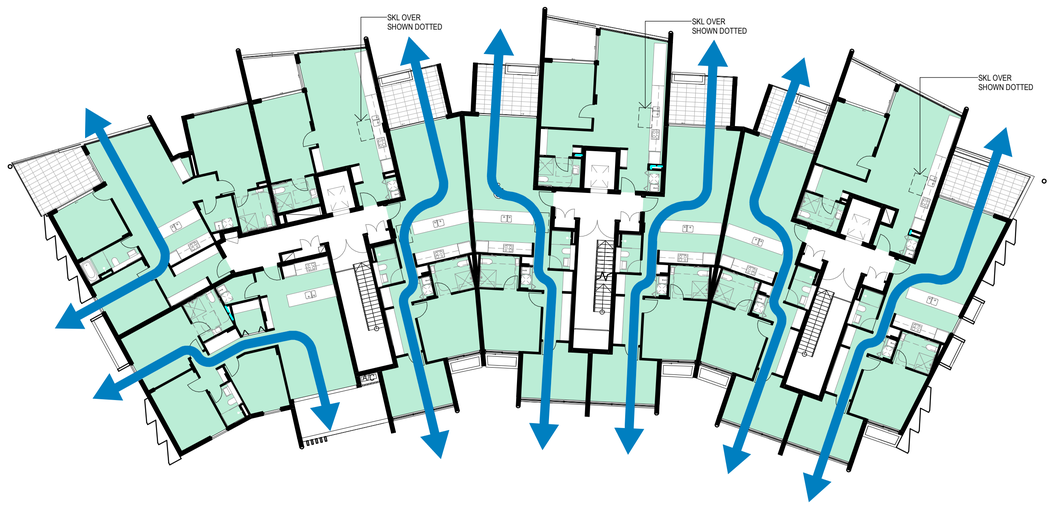
1 BUILDING A - LOWER GROUND - CROSS VENTILATION
1 : 200



2 BUILDING A - GROUND FLOOR - CROSS VENTILATION
1 : 200



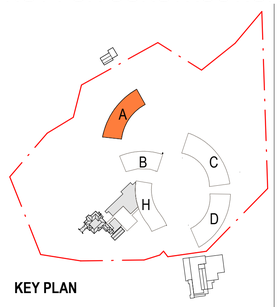
3 BUILDING A - LEVEL 1 PLAN - CROSS VENTILATION
1 : 200



4 BUILDING A - LEVEL 2 PLAN - CROSS VENTILATION
1 : 200

NOTE: CROSS-VENTILATION ACHIEVED THROUGH OPERABLE SKYLIGHTS

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

KEY

NATURALLY CROSS-VENTILATED

NOT NATURALLY CROSS-VENTILATED

SCHEDULE SUMMARY

B1 = 2/4
GF = 7/10
L1 = 7/10
L2 = 10/10
TOTAL = 26/34
TOTAL NUMBER OF APARTMENTS = 34

76%

COMPLIANCE
ADG MINIMUM = 60%

No	Date	Description	Ver'd	Appr'd
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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING A - CROSS VENTILATION

Scale	Drawing No.	Issue
As indicated @A1	DA1202	B

0 1 2 4 8 m

PLOT DATE & TIME: 23/08/2024 1:24:30 PM
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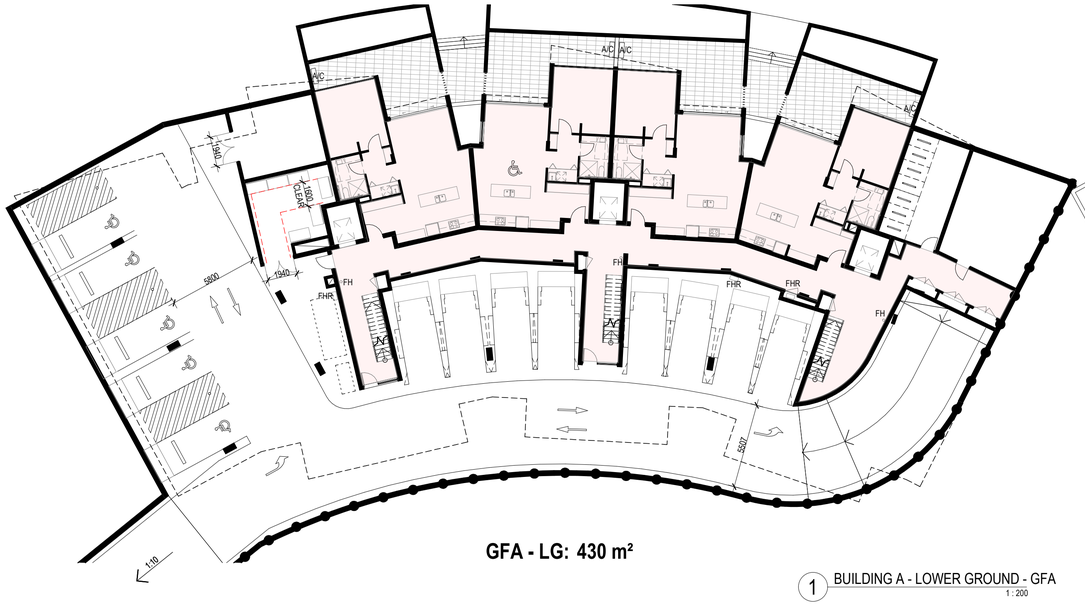
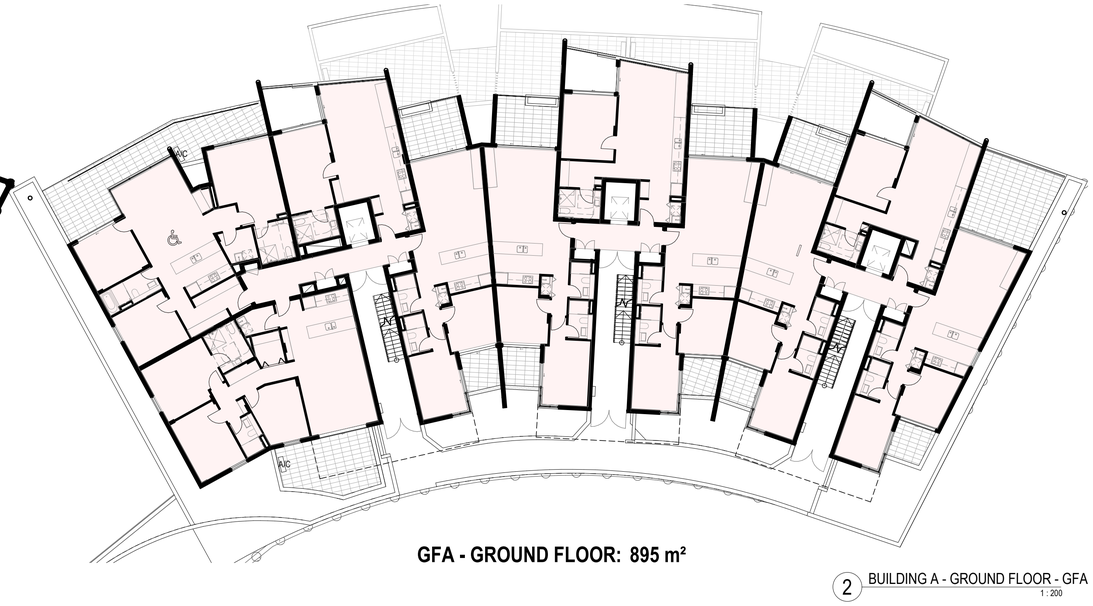


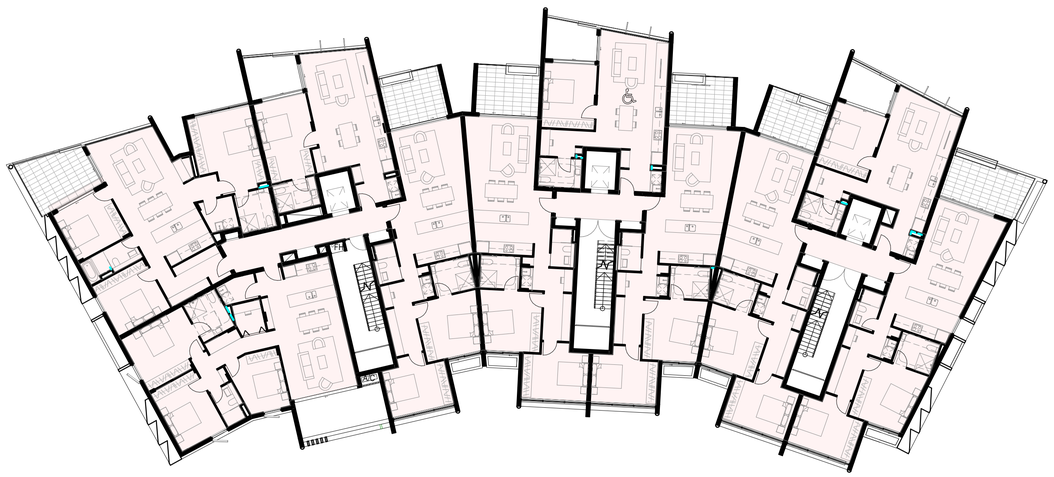
GFA - LG: 430 m²

1 BUILDING A - LOWER GROUND - GFA
1 : 200



GFA - GROUND FLOOR: 895 m²

2 BUILDING A - GROUND FLOOR - GFA
1 : 200



GFA - LEVEL 1: 978 m²

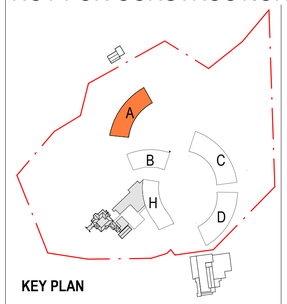
3 BUILDING A - LEVEL 1 PLAN - GFA
1 : 200



GFA - LEVEL 2: 978 m²

4 BUILDING A - LEVEL 2 PLAN - GFA
1 : 200

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

GFA CALCULATION : BUILDING A

LOWER GROUND :	430m²
GROUND :	895m²
LEVEL 1 :	978m²
LEVEL 2 :	978m²
TOTAL GFA:	**3,281m²**

No	Date	Description	Ver'd	Appr'd
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Revisions

Key

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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING A - GFA

Scale	Drawing No.	Issue
As indicated @A1	DA1203	B

0 1 2 4 8 m

PLOT DATE & TIME: 25/08/2024 1:24:44 PM
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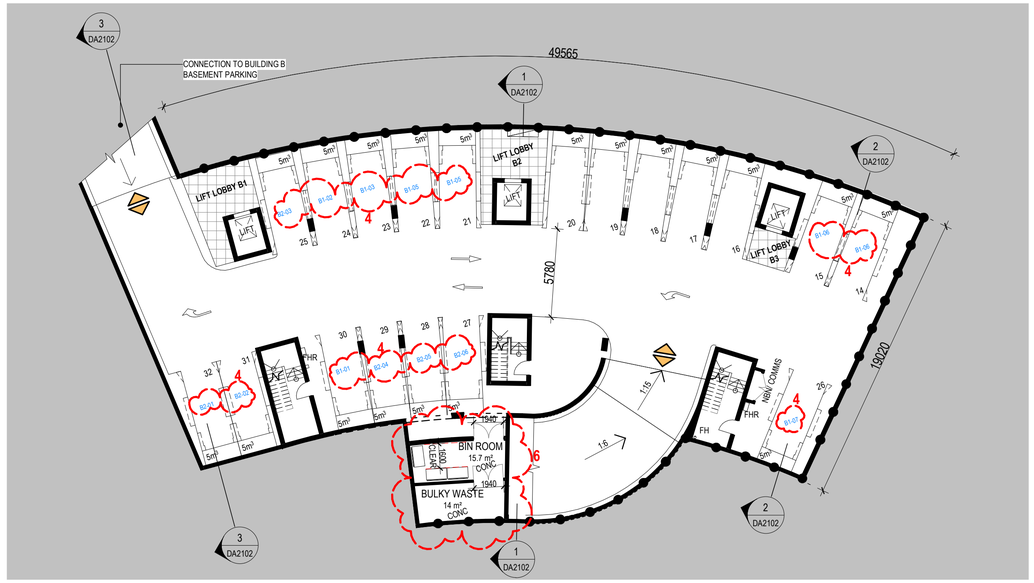
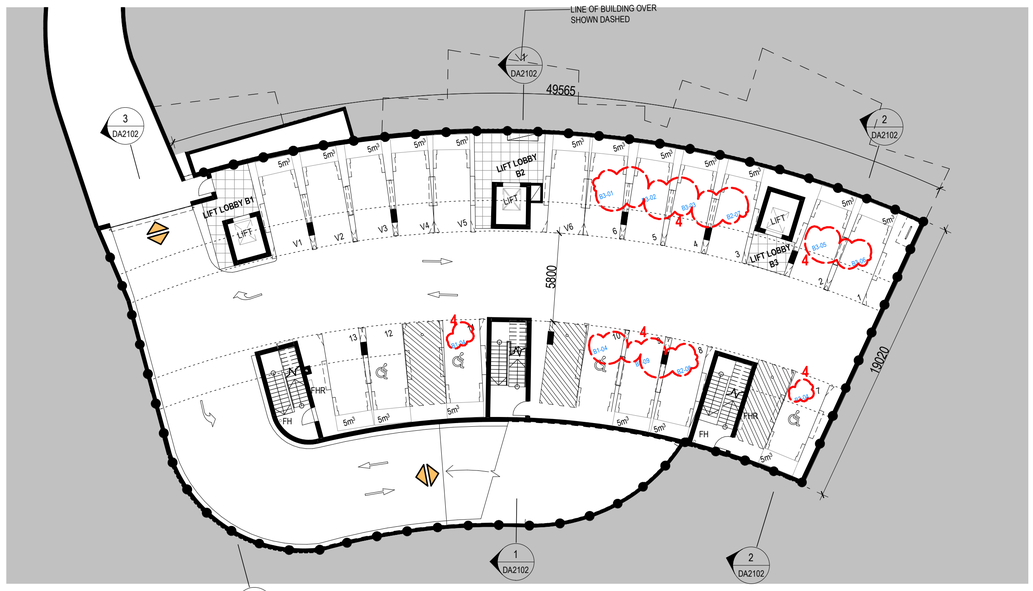
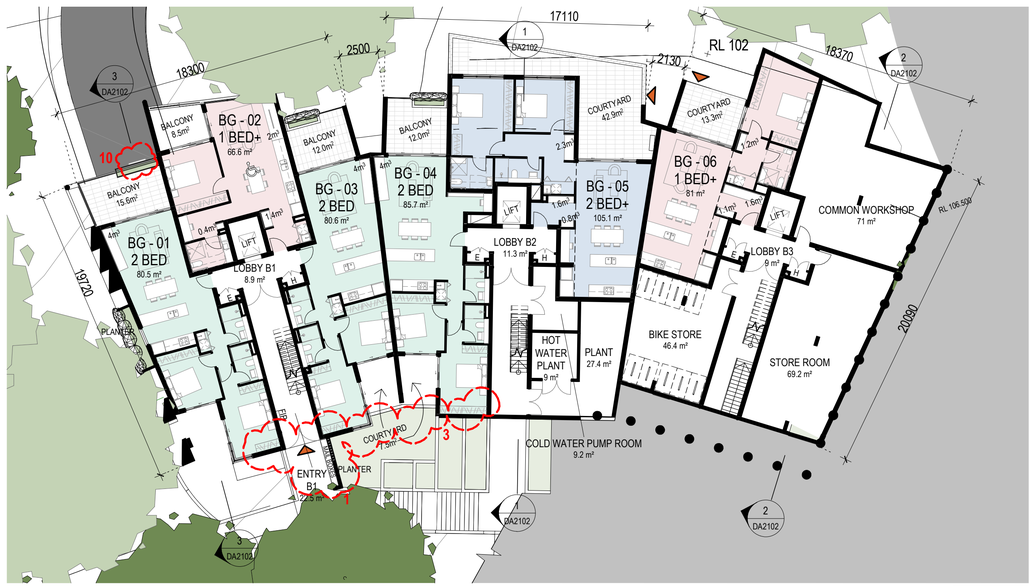


1 BUILDING B - BASEMENT 2 (FFL94.700)
1 : 200

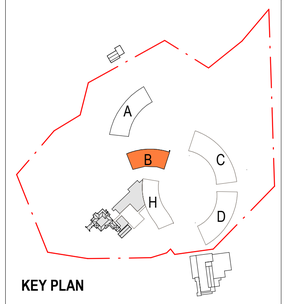


2 BUILDING B - BASEMENT 1 (FFL97.400)
1 : 200



3 BUILDING B - GROUND (FFL100.500)
1 : 200

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

LEGEND
- 1 BED
- 1 BED+S
- 2 BED
- 2 BED+S
- 3 BED

ACCESS
- PEDESTRIAN ENTRY
- VEHICULAR ENTRY

BUILDING B APARTMENT SCHEDULE

Name	Count
1 BED+	9
2 BED	5
2 BED+	11
3 BED	3
Grand total: 28	28

RESIDENT CAR SPACE (2.4M)	32
VISITOR CAR SPACE (2.4M)	6
BUILDING B CARPARKING	**38**
ACCESSIBLE CAR SPACE	4
BICYCLE PARKING	9
MOTORBIKE PARKING	0

No	Date	Description	Ver'd	Appr'd
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Revisions

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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING B - BASEMENT PLANS

Scale	Drawing No.	Issue
As indicated @A1	DA2001	B

0 1 2 4 8 m

PLOT DATE & TIME: 23/08/2024 1:24:57 PM
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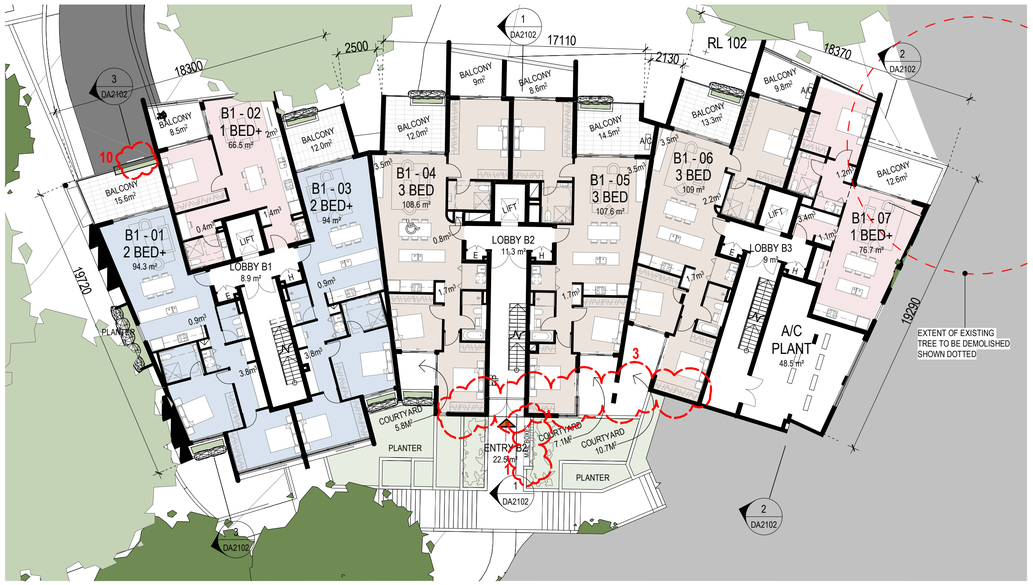
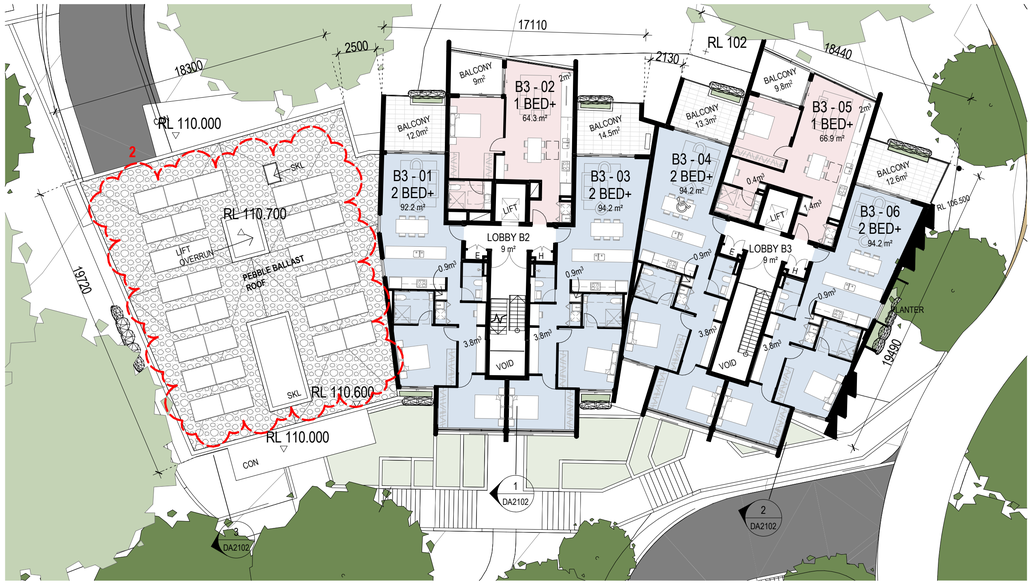


1 BUILDING B - LEVEL 1 (FFL103.600)
1 : 200



2 BUILDING B - LEVEL 2 (FFL106.700)
1 : 200

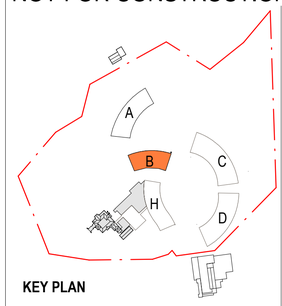


3 BUILDING B - LEVEL 3 PLAN (FFL110.000)
1 : 200



4 BUILDING B - ROOF (FFL113.300)
1 : 200

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

LEGEND
- 1 BED
- 1 BED+S
- 2 BED
- 2 BED+S
- 3 BED

ACCESS
- PEDESTRIAN ENTRY
- VEHICULAR ENTRY

BUILDING B APARTMENT SCHEDULE

Name	Count
1 BED+	9
2 BED	5
2 BED+	11
3 BED	3
Grand total: 28	28

No	Date	Description	Ver'd	Appr'd
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Revisions

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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING B - FLOOR PLANS

Scale	Drawing No.	Issue
As indicated @A1	DA2002	B

0 1 2 4 8 m

PLOTTED & CHECKED BY: Author
PLOT DATE & TIME: 23/08/2024 1:25:19 PM

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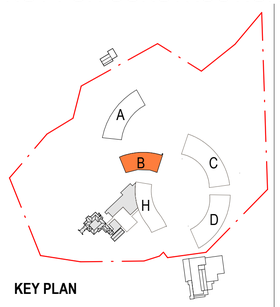
12. CHANGES TO GOLF COURSE AS REQUIRED

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN



1 BUILDING B - NORTH ELEVATION
1 : 200



2 BUILDING B - EAST ELEVATION
1 : 200



3 BUILDING B - SOUTH ELEVATION
1 : 200



4 BUILDING B - WEST ELEVATION
1 : 200

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

Key

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ALLEN JACK+COTTIER
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pl +61 2 9311 8222 fx +61 2 9311 8200
ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING B - ELEVATIONS

Scale	Drawing No.	Issue
As indicated @A1	DA2101	B

0 1 2 4 8 m

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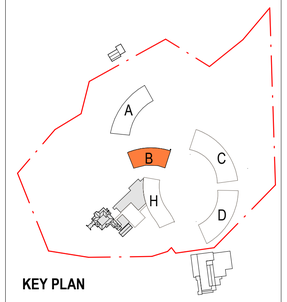
CHANGES RELATING TO COUNCIL'S RFI:
1. MAILBOX LOCATIONS ADDED
2. SOLAR PANELS ADDED TO ROOFS
3. ROBES INCREASED
4. UNIT AND CARPARK NUMBERS ADDED
5. WINDOW POP-OUTS AMENDED TO WIDEN DISTANCE
6. AMENDMENTS TO WASTE ROOMS
7. WASTE HOLDING AREA NOTED
8. POOL PLANT ROOM ADDED
9. HOTEL ENTRY SETBACK AND AMENITIES WING ADDED
10. BUILDING ENTRY ARTICULATION AND PRIVACY SCREENS ADDED
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED

Drawing Status
NOT FOR CONSTRUCTION

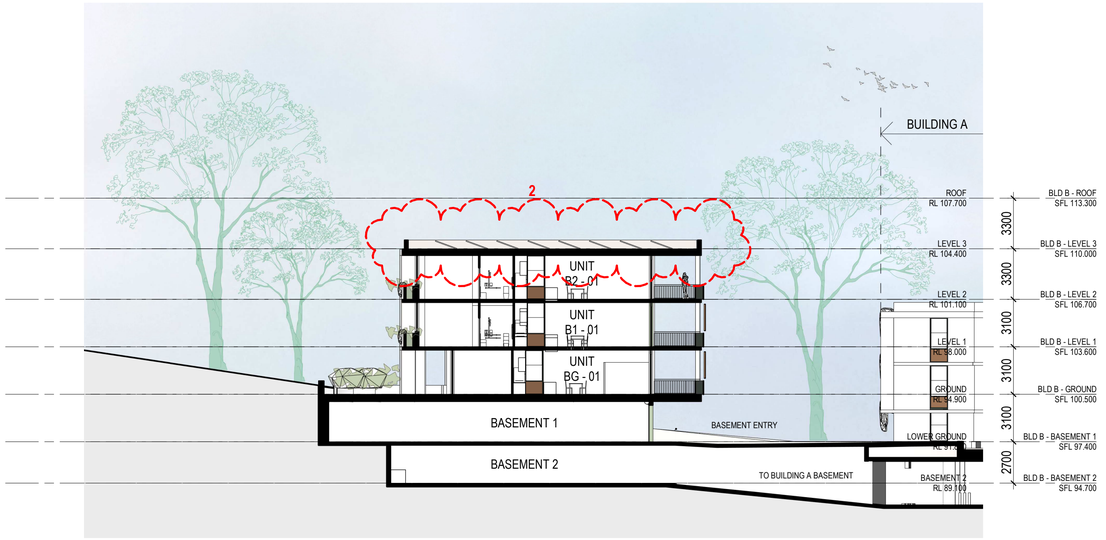


KEY PLAN



1 BUILDING B - SECTION 01
1 / DA2001 1 : 200

2 BUILDING B - SECTION 02
1 / DA2001 1 : 200



3 BUILDING B - SECTION 03
1 / DA2001 1 : 200

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

Key

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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING B - SECTIONS

Scale	Drawing No.	Issue
As indicated @A1	DA2102	B

0 1 2 4 8 m

PLOT DATE & TIME: 26/08/2024 1:26:26 PM
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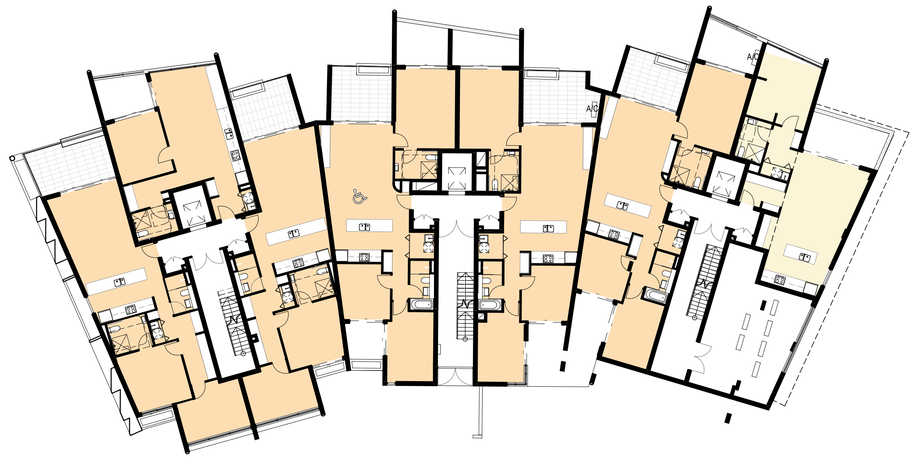
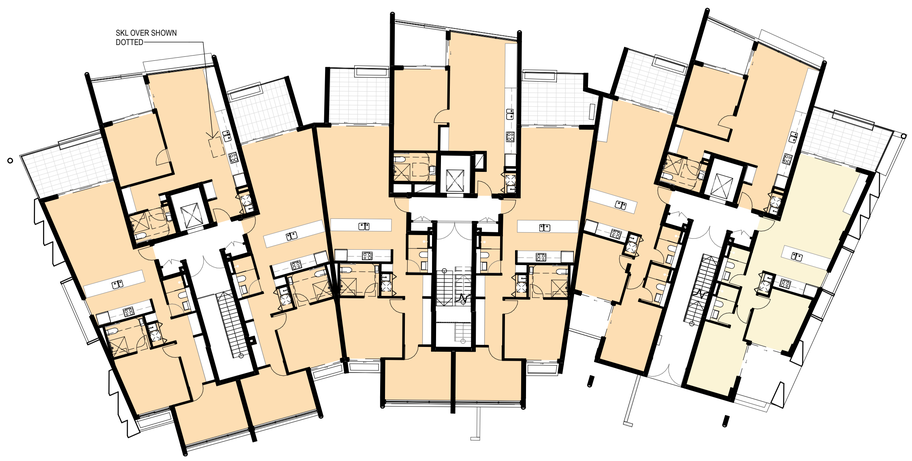
12. CHANGES TO GOLF COURSE AS REQUIRED



1 BUILDING B - GROUND PLAN - SOLAR
1 : 200

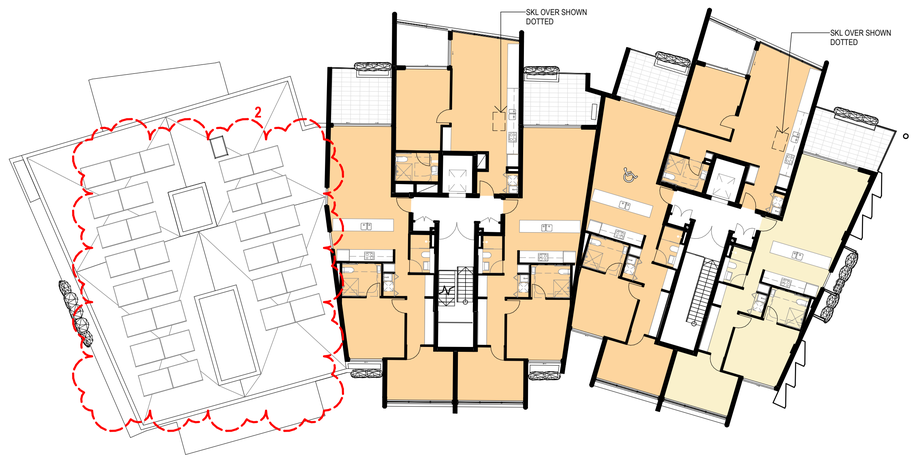


2 BUILDING B - LEVEL 1 PLAN - SOLAR
1 : 200



3 BUILDING B - LEVEL 2 PLAN - SOLAR
1 : 200

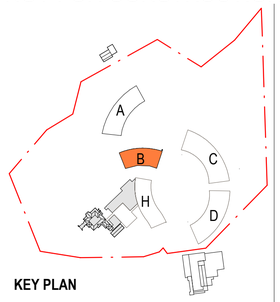
NOTE: NATURAL SUNLIGHT (SOLAR ACCESS) THROUGH SKYLIGHTS



4 BUILDING B - LEVEL 3 PLAN - SOLAR
1 : 200

NOTE: NATURAL SUNLIGHT (SOLAR ACCESS) THROUGH SKYLIGHTS

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

KEY - SOLAR ACCESS

1.5 HOURS
2 HOURS
3 HOURS +

SCHEDULE SUMMARY

0-1 HOURS	0
1.5 HOURS	0
2 HOURS	3
2.5 HOURS	0
3+ HOURS	25

TOTAL NUMBER OF APARTMENTS = 28

100%
> 2 HOUR SOLAR ACCESS
ADG MINIMUM = 70%

89%
> 3 HOUR SOLAR ACCESS

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

Key

N

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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING B - SOLAR ACCESS

Scale: As indicated @A1
Drawing No.: DA2201
Issue: B

0 1 2 4 8 m

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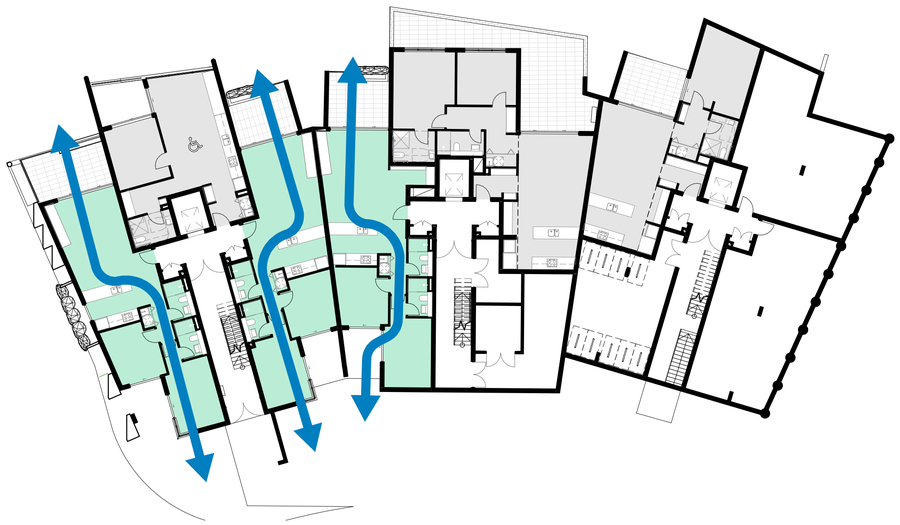
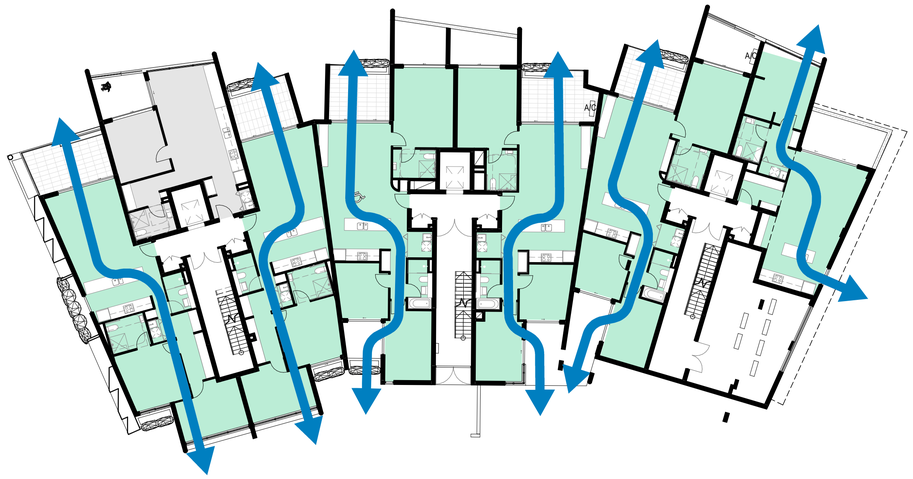
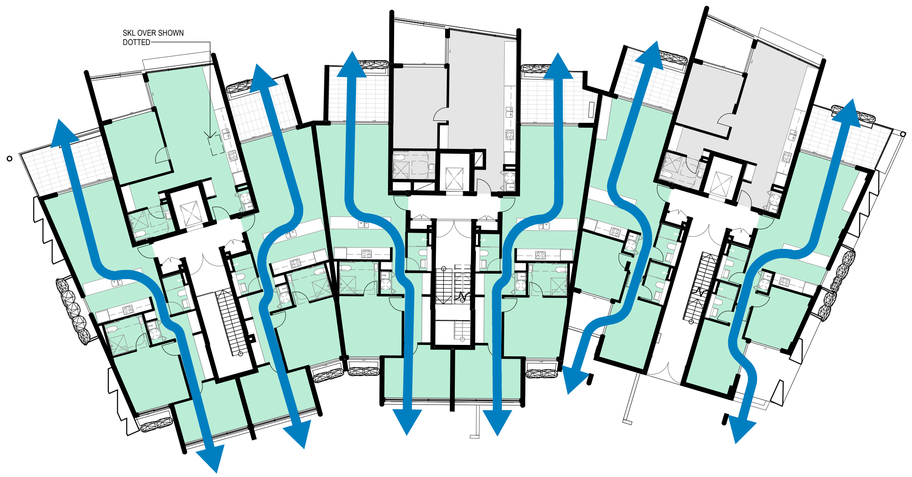


1 BUILDING B - GROUND - CROSS VENTILATION
1 : 200

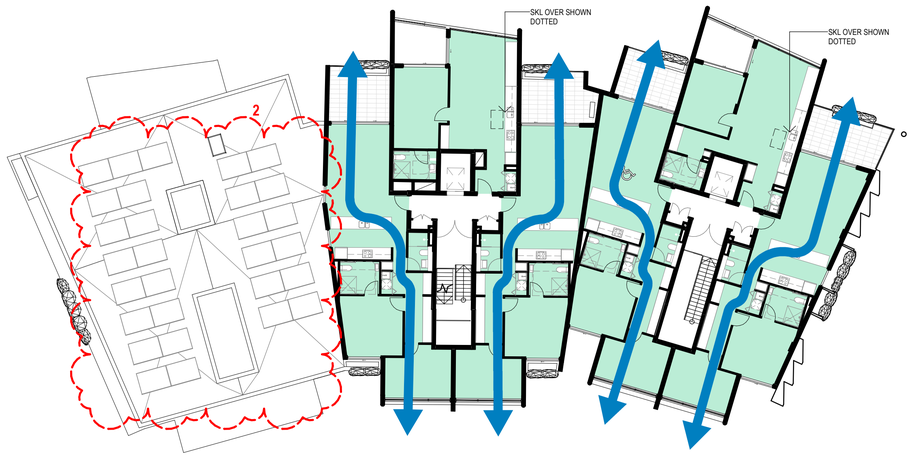


2 BUILDING B - LEVEL 1 - CROSS VENTILATION
1 : 200



3 BUILDING B - LEVEL 2 PLAN - CROSS VENTILATION
1 : 200

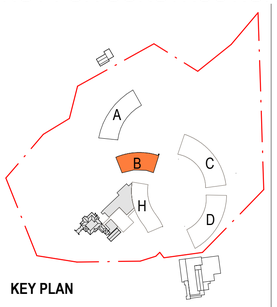
NOTE: CROSS-VENTILATION ACHIEVED THROUGH OPERABLE SKYLIGHTS



4 BUILDING B - LEVEL 3 PLAN - CROSS VENTILATION
1 : 200

NOTE: CROSS-VENTILATION ACHIEVED THROUGH OPERABLE SKYLIGHTS

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

KEY

NATURALLY CROSS-VENTILATED

NOT NATURALLY CROSS-VENTILATED

SCHEDULE SUMMARY

GF = 3/6
L1 = 6/7
L2 = 7/9
L3 = 6/6
TOTAL = 22/28

79%

COMPLIANCE
ADG MINIMUM = 60%

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

Key

N

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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING B - CROSS VENTILATION

Scale	Drawing No.	Issue
As indicated @A1	DA2202	B

0 1 2 4 8 m

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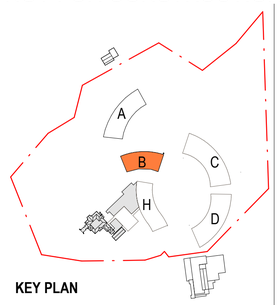
12. CHANGES TO GOLF COURSE AS REQUIRED

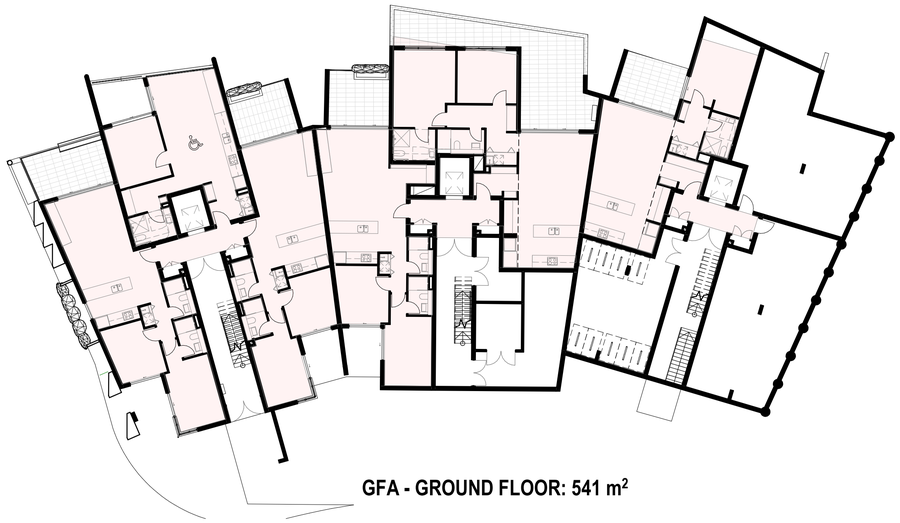
Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

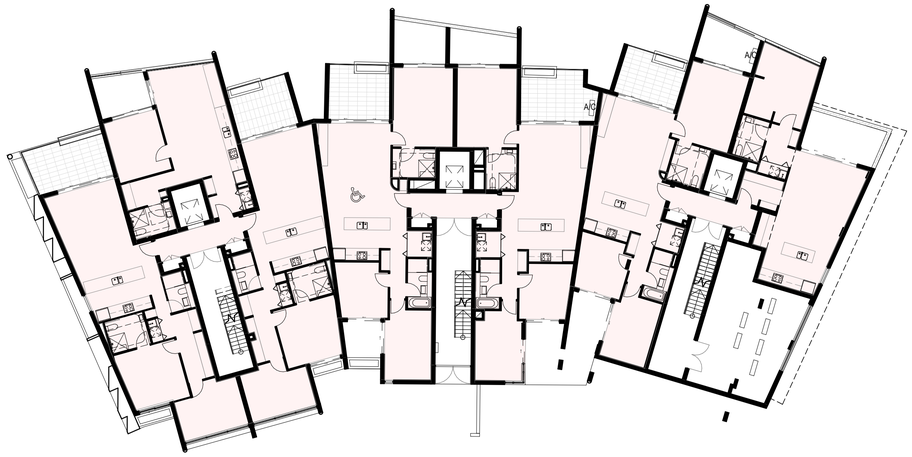
GFA CALCULATION : BUILDING B

GROUND :	541m²
LEVEL 1 :	702m²
LEVEL 2 :	781m²
LEVEL 3 :	536m²
TOTAL GFA:	**2,560m²**



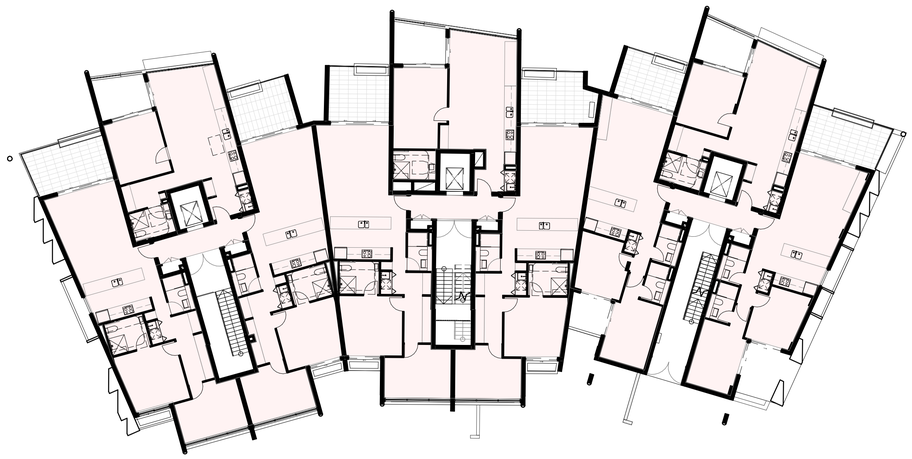
GFA - GROUND FLOOR: 541 m²

1 BUILDING B -GROUND FLOOR - GFA
1 : 200



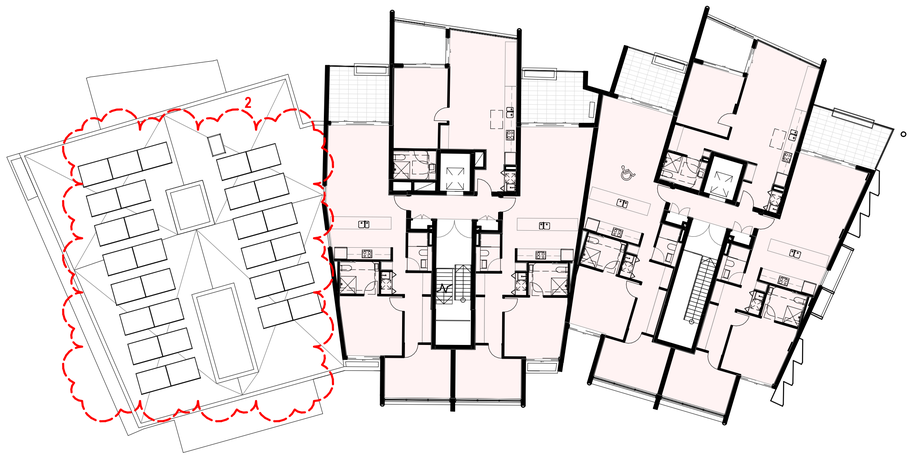
GFA - LEVEL 1: 702 m²

2 BUILDING B - LEVEL 1 - GFA
1 : 200



GFA - LEVEL 2: 781 m²

3 BUILDING B - LEVEL 2 PLAN - GFA
1 : 200



GFA - LEVEL 3: 536 m²

4 BUILDING B - LEVEL 3 PLAN - GFA
1 : 200

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

Key

N

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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING B - GFA

Scale	Drawing No.	Issue
As indicated @A1	DA2203	B

0 1 2 4 8 m

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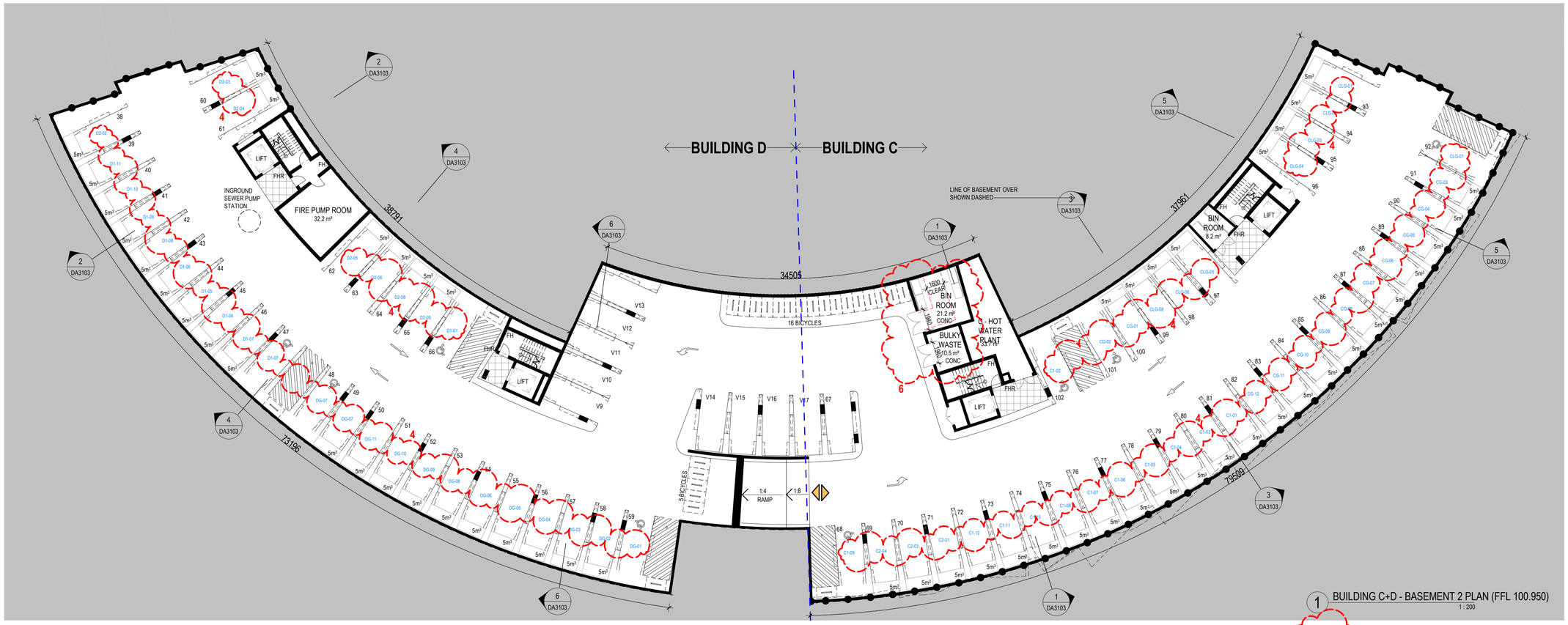
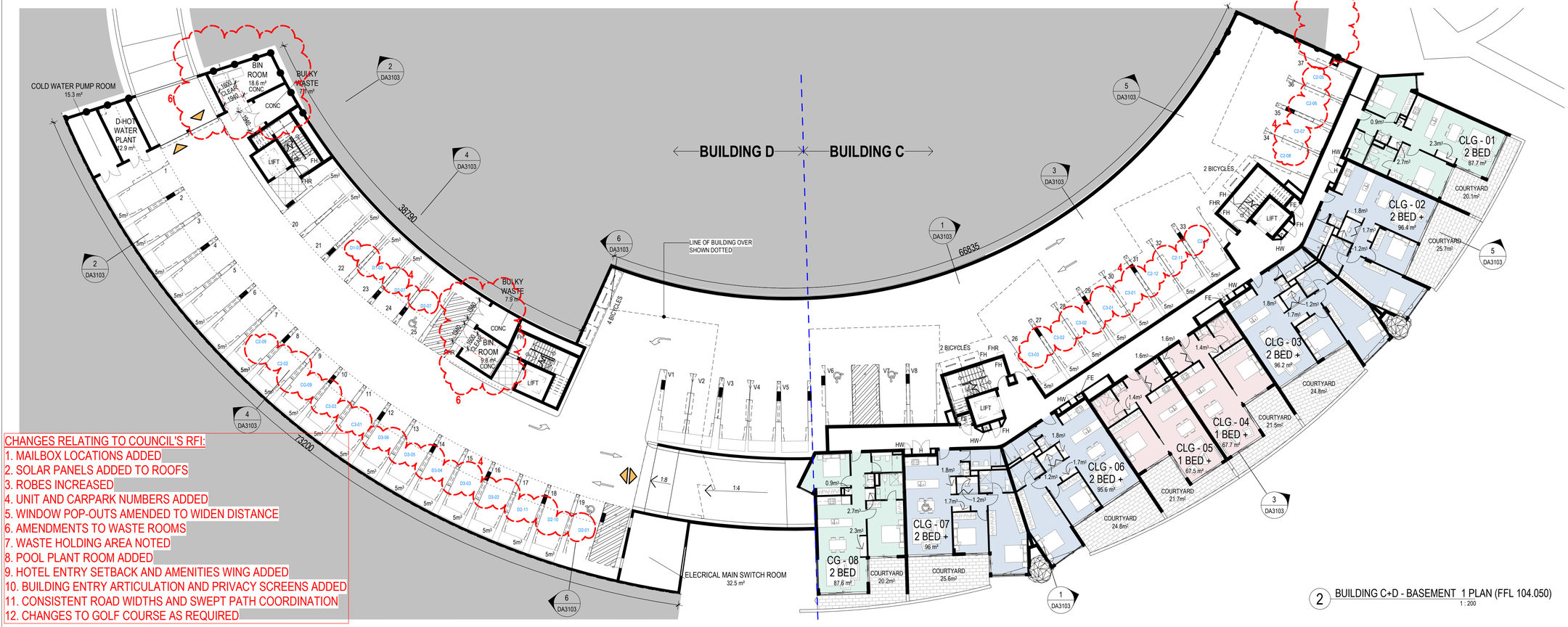


1 BUILDING C+D - BASEMENT 2 PLAN (FFL 100.950)
1 : 200



2 BUILDING C+D - BASEMENT 1 PLAN (FFL 104.050)
1 : 200

CHANGES RELATING TO COUNCIL'S RFI:
1. MAILBOX LOCATIONS ADDED
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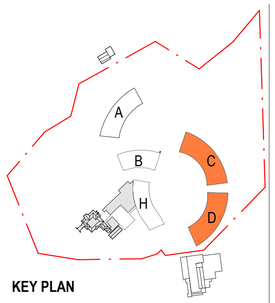
Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

LEGEND
- 1 BED
- 1 BED+S
- 2 BED
- 2 BED+S
- 3 BED

ACCESS
- PEDESTRIAN ENTRY
- VEHICULAR ENTRY

BUILDINGS C+D
APARTMENT SCHEDULE

Name	Count
1 BED	16
1 BED +	2
2 BED	12
2 BED +	50
3 BED	6
Grand total: 86	

RESIDENT CAR SPACE (2.4M)	102
VISITOR CAR SPACE (2.4M)	17
BUILDING C&D CARPARKING	**119**
ACCESSIBLE CAR SPACE	12
BICYCLE PARKING	35
MOTORBIKE PARKING	0

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

Key

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52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING C+D - BASEMENT PLANS

Scale	Drawing No.	Issue
As indicated @A1	DA3001	B

0 1 2 4 8 m

Author
PLOTTED & CHECKED BY:
PLOT DATE & TIME: 25/08/2024 1:27:29 PM

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1 BUILDING C+D - GROUND PLAN (FFL107.150)
1 : 200



CHANGES RELATING TO COUNCIL'S RFI:
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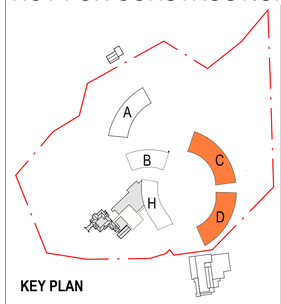
2 BUILDING C+D - LEVEL 1 PLAN (FFL113.350)
1 : 200

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

LEGEND
- 1 BED
- 1 BED+S
- 2 BED
- 2 BED+S
- 3 BED

ACCESS
- PEDESTRIAN ENTRY
- VEHICULAR ENTRY

BUILDINGS C+D APARTMENT SCHEDULE

Name	Count
1 BED	16
1 BED +	2
2 BED	12
2 BED +	50
3 BED	6

Grand total: 86

No	Date	Description	Ver'd	Appr'd
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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING C+D - FLOOR PLANS - SHEET 1

Scale	Drawing No.	Issue
As indicated @A1	DA3002	B

0 1 2 4 8 m

PLOT DATE & TIME: 25/08/2024 1:27:57 PM
PLOTTED & CHECKED BY: Author

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2 BUILDING C+D - LEVEL 2 PLAN (FFL 113.350)
1:200



1 BUILDING C+D - ROOF PLAN (FFL 116.450)
1:200

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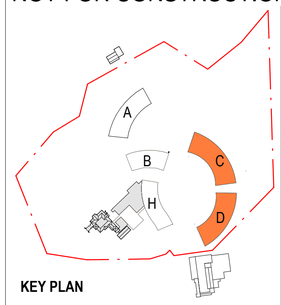
Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

LEGEND
- 1 BED
- 1 BED+S
- 2 BED
- 2 BED+S
- 3 BED

ACCESS
- PEDESTRIAN ENTRY
- VEHICULAR ENTRY

BUILDINGS C+D APARTMENT SCHEDULE

Name	Count
1 BED	16
1 BED +	2
2 BED	12
2 BED +	50
3 BED	6

Grand total: 86

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

Key
N

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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING C+D - FLOOR PLANS - SHEET 2

Scale	Drawing No.	Issue
As indicated @A1	DA3003	B

0 1 2 4 8 m

PLOT DATE & TIME: 25/08/2024 1:28:21 PM
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CHANGES RELATING TO COUNCIL'S RFI:
1. MAILBOX LOCATIONS ADDED
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3. ROBES INCREASED
4. UNIT AND CARPARK NUMBERS ADDED
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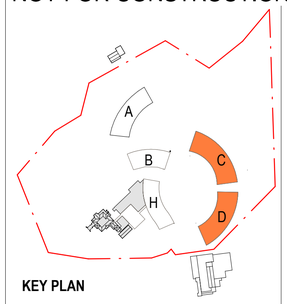
6. AMENDMENTS TO WASTE ROOMS
7. WASTE HOLDING AREA NOTED
8. POOL PLANT ROOM ADDED
9. HOTEL ENTRY SETBACK AND AMENITIES WING ADDED
10. BUILDING ENTRY ARTICULATION AND PRIVACY SCREENS ADDED
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN



1 BUILDING C - NORTH-EAST ELEVATION
1 / DA0006 1 : 200



2 BUILDING C - WEST ELEVATION
1 : 200



3 BUILDING C - SOUTH-WEST ELEVATION
1 : 200



4 BUILDING C - SOUTH ELEVATION
1 : 200

No	Date	Description	Ver'd	Appr'd
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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING C - ELEVATIONS

Scale	Drawing No.	Issue
As indicated @A1	DA3101	B

0 1 2 4 8 m

PLOT DATE & TIME: 25/08/2024 1:30:04 PM
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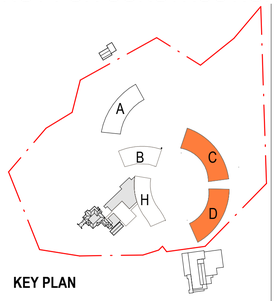
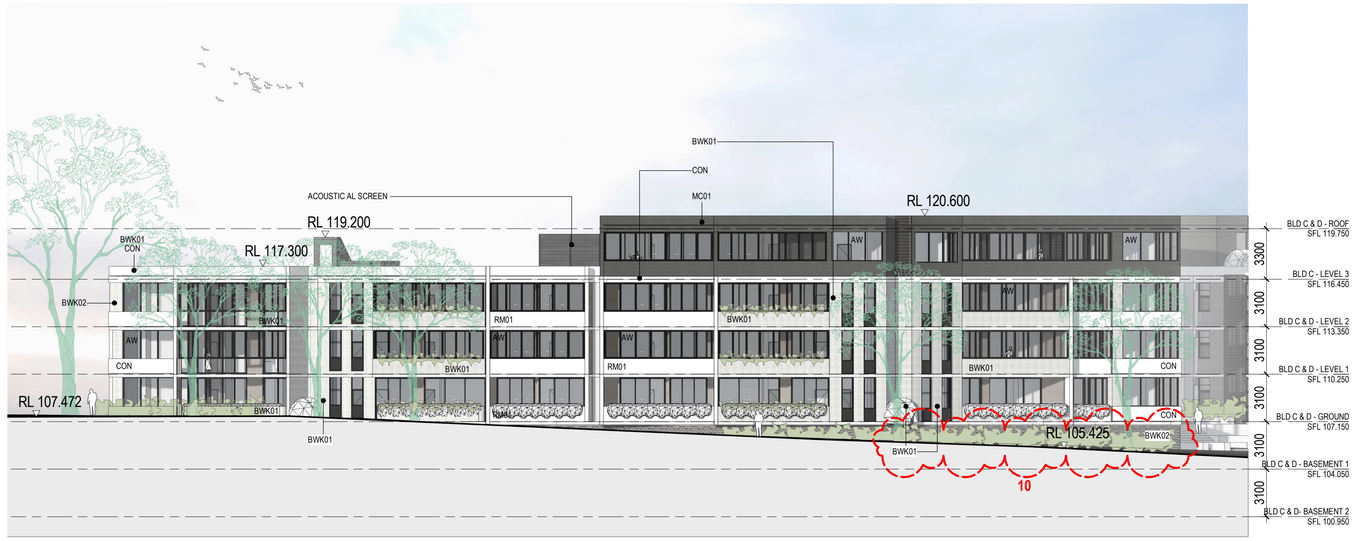
12. CHANGES TO GOLF COURSE AS REQUIRED

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN



1 BUILDING D - EAST ELEVATION
1 : 200



2 BUILDING D - SOUTH ELEVATION
1 : 200



3 BUILDING D - WEST ELEVATION
1 : 200



4 BUILDING D - NORTH ELEVATION
1 : 200

No	Date	Description	Ver'd	Appr'd
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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING D - ELEVATIONS

Scale	Drawing No.	Issue
As indicated @A1	DA3102	B

0 1 2 4 8 m

PLOT DATE & TIME: 25/09/2024 1:31:35 PM
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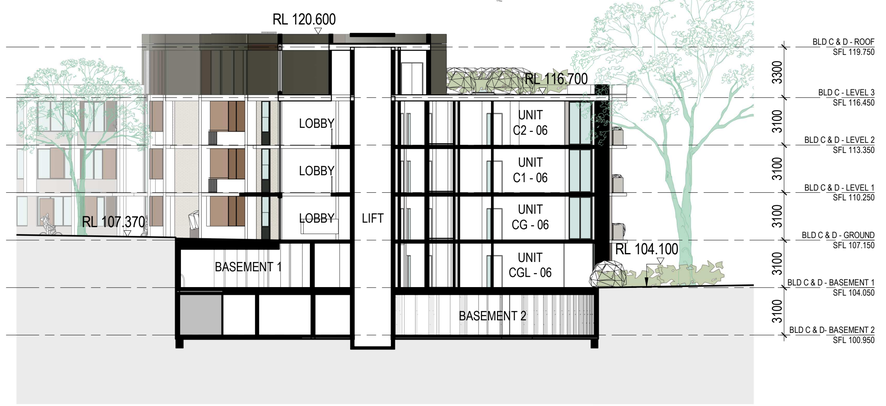
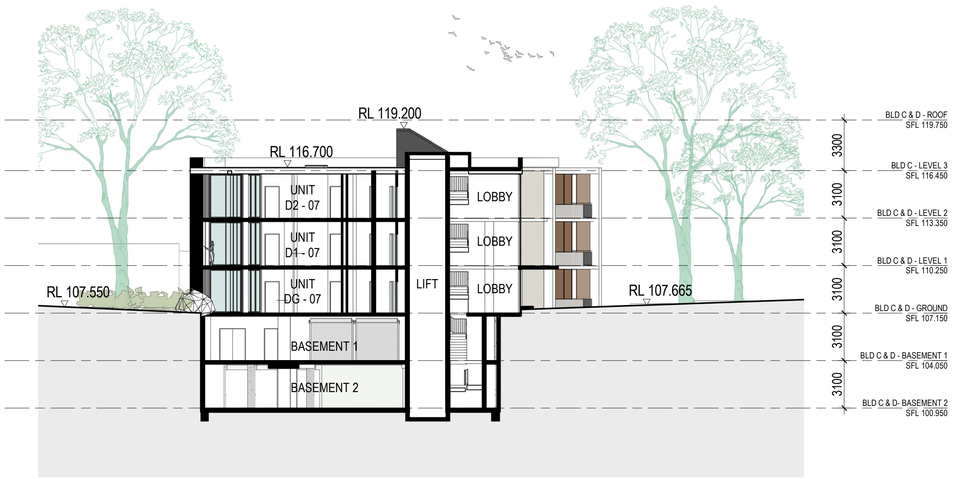


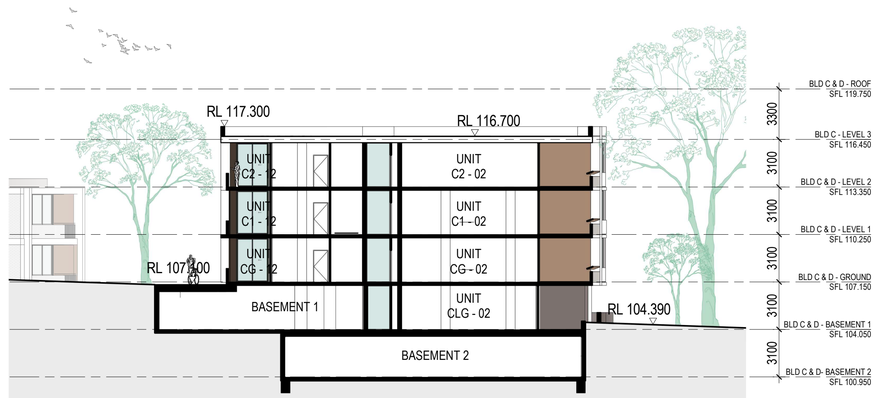
1 BUILDING C - SECTION 01
1 / DA3001 1 : 200



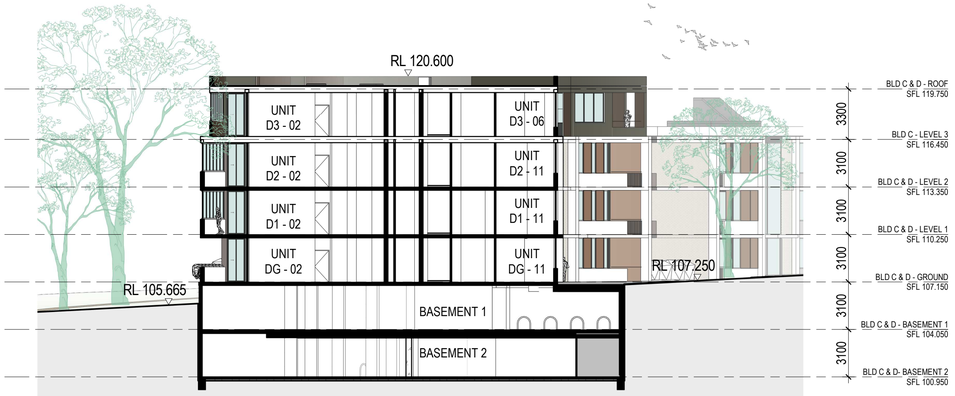
2 BUILDING D - SECTION 01
1 / DA3001 1 : 200

3 BUILDING C - SECTION 02
1 / DA3001 1 : 200

4 BUILDING D - SECTION 02
1 / DA3001 1 : 200

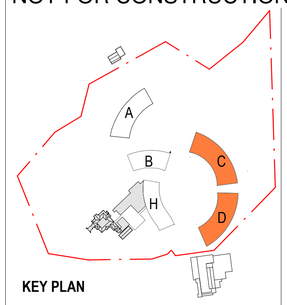


5 BUILDING C - SECTION 03
1 / DA3001 1 : 200



6 BUILDING D - SECTION 03
1 / DA3001 1 : 200

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING C+D - SECTIONS

Scale: As indicated @A1
Drawing No.: DA3103
Issue: B

0 1 2 4 8 m

PLOT DATE & TIME: 25/09/2024 1:31:51 PM
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11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED



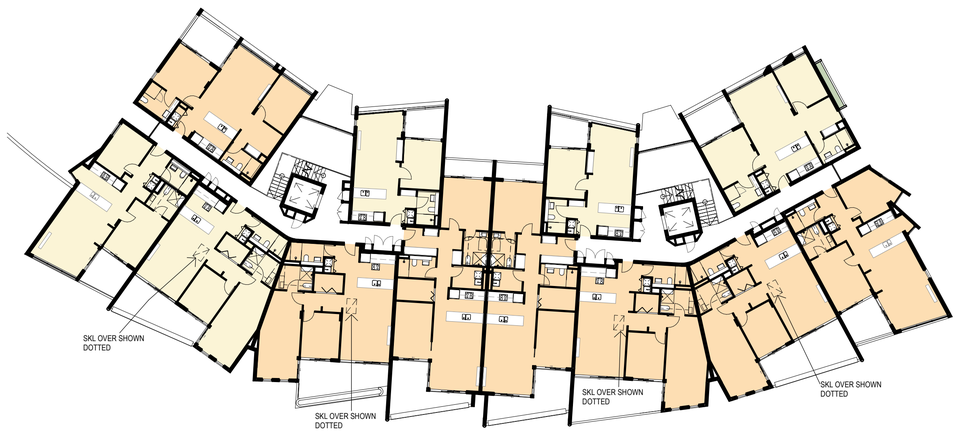
1 BUILDING C+D - BASEMENT 1 PLAN - SOLAR
1 : 250



2 BUILDING C+D - GROUND PLAN - SOLAR
1 : 250



3 BUILDING C+D - LEVEL 1 PLAN - SOLAR
1 : 250



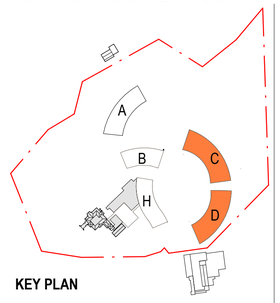
4 BUILDING C+D - LEVEL 2 PLAN - SOLAR
1 : 250

NOTE: NATURAL SUNLIGHT (SOLAR ACCESS) THROUGH SKYLIGHTS



5 BUILDING C+D - ROOF PLAN - SOLAR
1 : 250

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

KEY - SOLAR ACCESS

1.5 HOURS
2 HOURS
3 HOURS +

SCHEDULE SUMMARY

0-1 HOURS	0
1.5 HOURS	0
2 HOURS	17
3+ HOURS	30

TOTAL NUMBER OF APARTMENTS = 34

100%
> 2 HOUR SOLAR ACCESS
ADG MINIMUM = 70%

88%
> 3 HOUR SOLAR ACCESS

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

Key

N

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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING C - SOLAR ACCESS

Scale	Drawing No.	Issue
As indicated @A1	DA3201	B

0 1 2 4 8 m

PLOT DATE & TIME: 23/08/2024 1:32:08 PM
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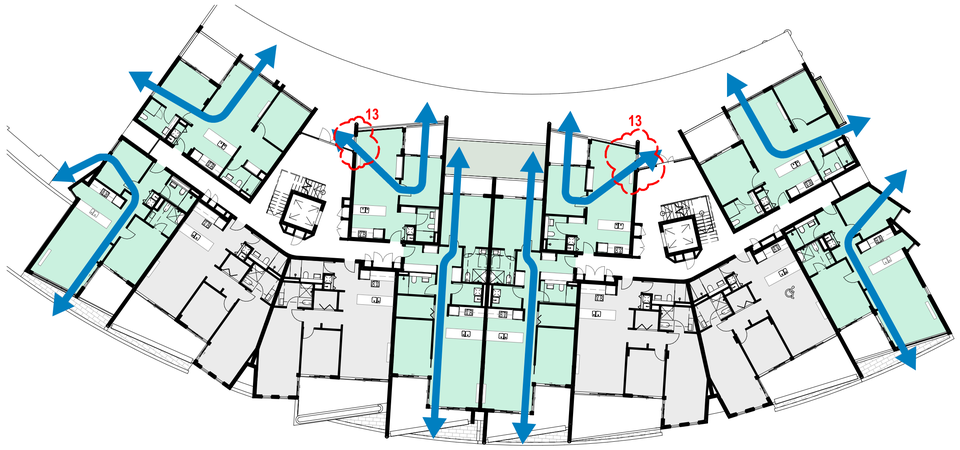
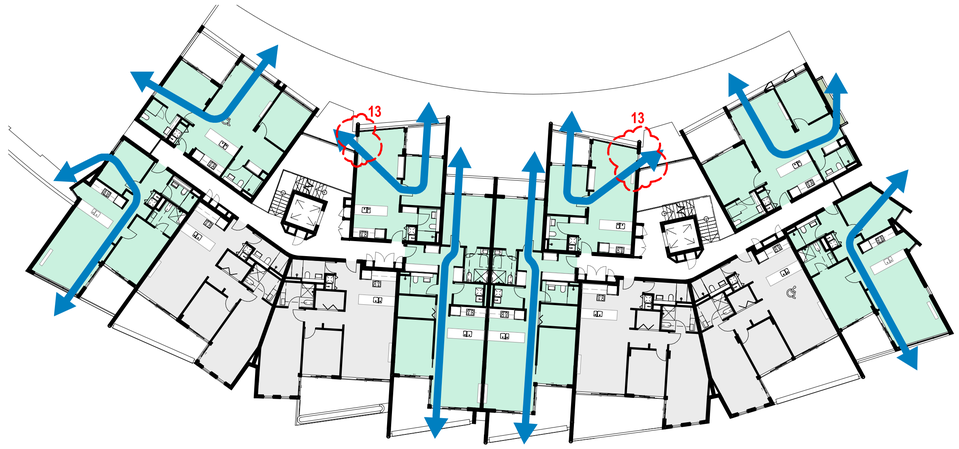
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED
13. LIVING ROOM WINDOW INCREASED TO ALLOW FOR CROSS VENTILATION



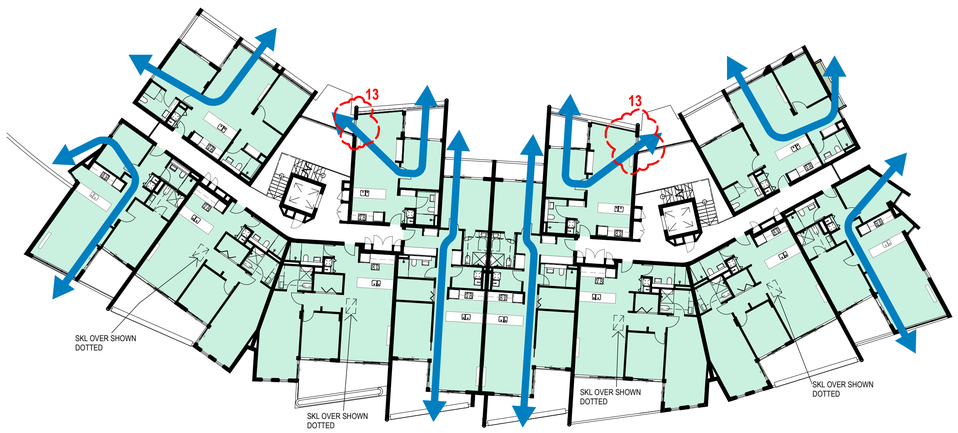
1 BUILDING C - BASEMENT 1 PLAN - CROSS VENTILATION
1 : 250



2 BUILDING C - GROUND PLAN - CROSS VENTILATION
1 : 250

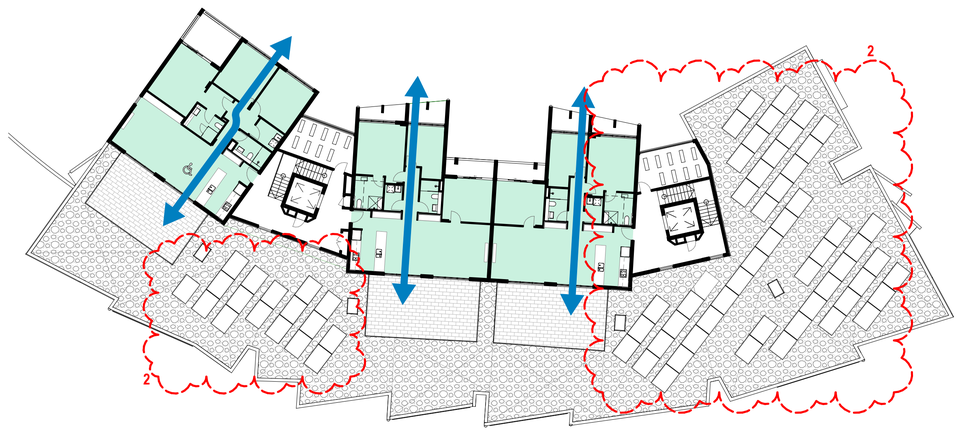


3 BUILDING C - LEVEL 1 PLAN - CROSS VENTILATION
1 : 250



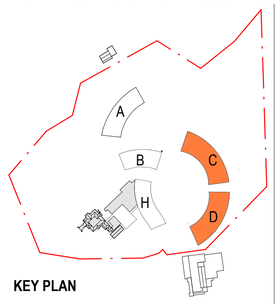
4 BUILDING C - LEVEL 2 PLAN - CROSS VENTIALTION
1 : 250

NOTE: CROSS-VENTILATION ACHIEVED THROUGH OPERABLE SKYLIGHTS



5 BUILDING C - LEVEL 3 PLAN - CROSS VENTILATION
1 : 250

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

KEY

NATURALLY CROSS-VENTILATED

NOT NATURALLY CROSS-VENTILATED

SCHEDULE SUMMARY

B1 = 2/8
GF = 8/12
L1 = 8/12
L2 = 12/12
L3 = 3/3

70%

COMPLIANCE
ADG MINIMUM = 60%

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
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Revisions

Key

N

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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING C - CROSS VENTILATION

Scale	Drawing No.	Issue
As indicated @A1	DA3202	B

0 1 2 4 8 m

PLOT DATE & TIME: 25/08/2024 1:32:25 PM
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12. CHANGES TO GOLF COURSE AS REQUIRED



GFA - LG: 838 m²

1 BUILDING C - LOWER GROUND -GFA
1 : 250



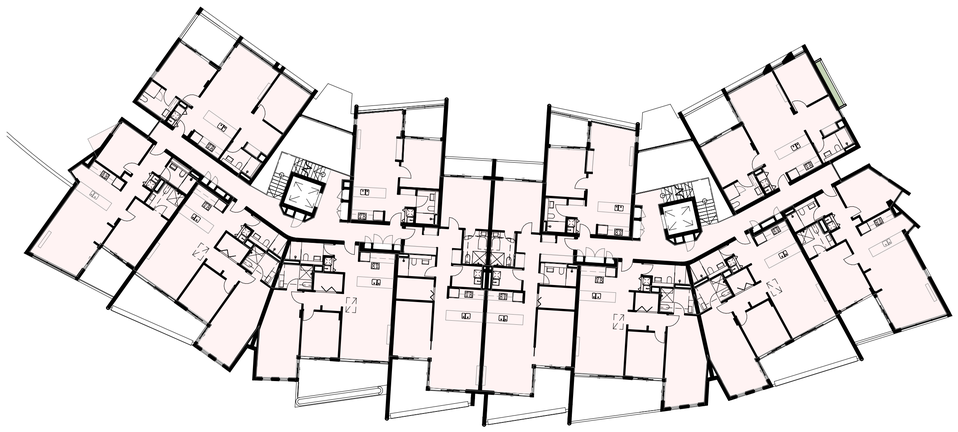
GFA - GROUND FLOOR: 1215 m²

2 BUILDING C - GROUND PLAN - GFA
1 : 250



GFA - LEVEL 1: 1167 m²

3 BUILDING C - LEVEL 1 PLAN - GFA
1 : 250



GFA - LEVEL 2: 1167 m²

4 BUILDING C - LEVEL 2 PLAN - GFA
1 : 250



GFA - LEVEL 3: 431 m²

5 BUILDING C - LEVEL 3 PLAN - GFA
1 : 250

Drawing Status
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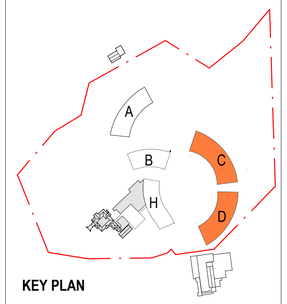

KEY PLAN

GFA CALCULATION : BUILDING C

LOWER GROUND:	838m²
GROUND :	1,215m²
LEVEL 1 :	1,167m²
LEVEL 2 :	1,167m²
LEVEL 3 :	431m²
TOTAL GFA:	**4,818m²**

No	Date	Description	Ver'd	Appr'd
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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING C - GFA

Scale	Drawing No.	Issue
As indicated @A1	DA3203	B

0 1 2 4 8 m

PLOT DATE & TIME: 25/08/2024 1:32:44 PM
PLOTTED & CHECKED BY: Author

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12. CHANGES TO GOLF COURSE AS REQUIRED



1 BUILDING D - GROUND PLAN - SOLAR
1 : 250



2 BUILDING D - LEVEL 1 PLAN - SOLAR
1 : 250



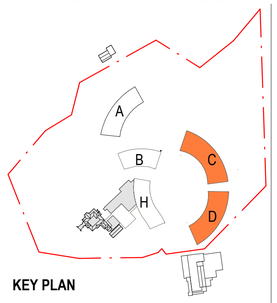
3 BUILDING D - LEVEL 2 PLAN - SOLAR
1 : 250

NOTE: NATURAL SUNLIGHT (SOLAR ACCESS) THROUGH SKYLIGHTS



4 BUILDING D - LEVEL 3 PLAN - SOLAR
1 : 250

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

KEY - SOLAR ACCESS
- 1.5 HOURS
- 2 HOURS
- 3 HOURS +

SCHEDULE SUMMARY

1.5 HOURS	4
2 HOURS	14
2.5 HOURS	0
3+ HOURS	21

TOTAL NUMBER OF APARTMENTS = 39

89%
> 2 HOUR SOLAR ACCESS
ADG MINIMUM = 70%

53%
> 3 HOUR SOLAR ACCESS

No	Date	Description	Ver'd	Appr'd
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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING D - SOLAR ACCESS

Scale	Drawing No.	Issue
As indicated @A1	DA3204	B

0 1 2 4 8 m

PLOT DATE & TIME: 25/08/2024 1:32:07 PM
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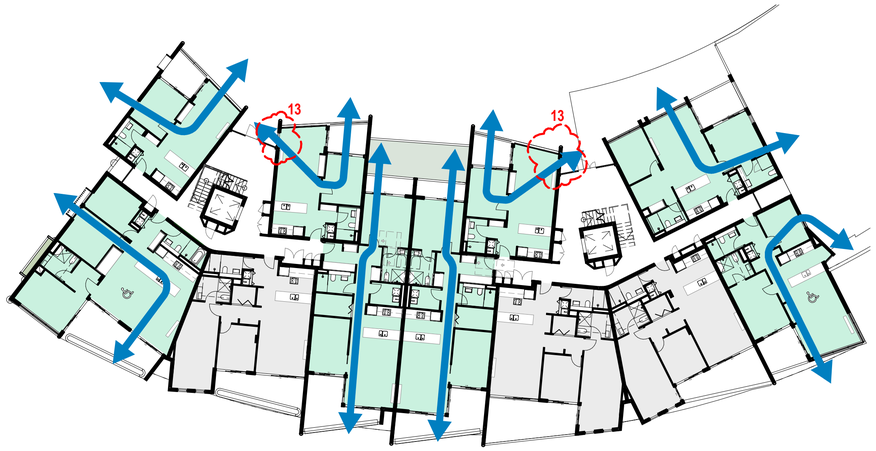
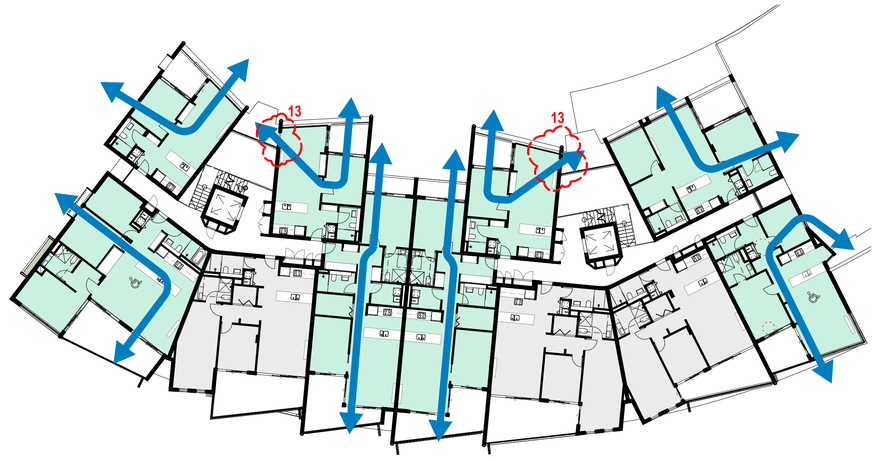
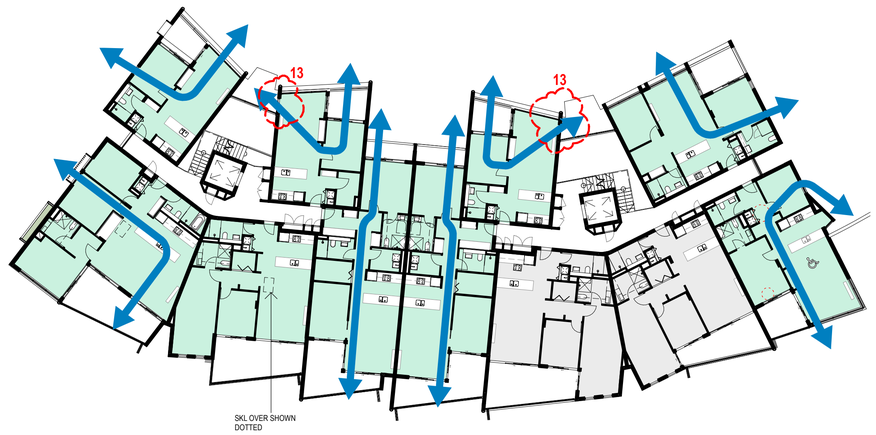
CHANGES RELATING TO COUNCIL'S RFI:
1. MAILBOX LOCATIONS ADDED
2. SOLAR PANELS ADDED TO ROOFS
3. ROBES INCREASED
4. UNIT AND CARPARK NUMBERS ADDED
5. WINDOW POP-OUTS AMENDED TO WIDEN DISTANCE
6. AMENDMENTS TO WASTE ROOMS
7. WASTE HOLDING AREA NOTED
8. POOL PLANT ROOM ADDED
9. HOTEL ENTRY SETBACK AND AMENITIES WING ADDED
10. BUILDING ENTRY ARTICULATION AND PRIVACY SCREENS ADDED
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED
13. LIVING ROOM WINDOW INCREASED TO ALLOW FOR CROSS VENTILATION



1 BUILDING D - GROUND PLAN - CROSS VENTILATION
1 : 250

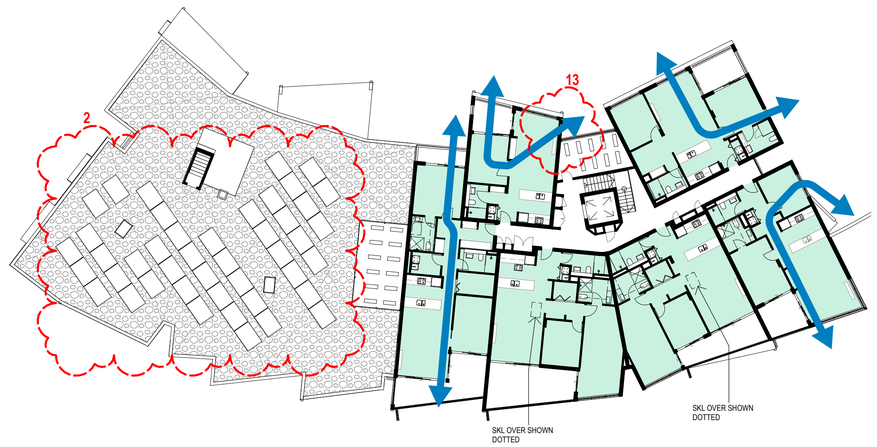


2 BUILDING D - LEVEL 1 PLAN - CROSS VENTILATION
1 : 250



3 BUILDING D - LEVEL 2 PLAN - CROSS VENTIALTION
1 : 250

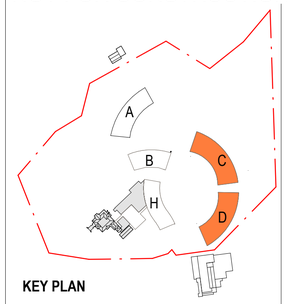
NOTE: CROSS-VENTILATION ACHIEVED THROUGH OPERABLE SKYLIGHTS



4 BUILDING D - LEVEL 3 PLAN - CROSS VENTILATION
1 : 250

NOTE: CROSS-VENTILATION ACHIEVED THROUGH OPERABLE SKYLIGHTS

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

KEY

NATURALLY CROSS-VENTILATED

NOT NATURALLY CROSS-VENTILATED

SCHEDULE SUMMARY
GF = 8/11
L1 = 8/11
L2 = 9/11
L3 = 6/6

79%
COMPLIANCE
ADG MINIMUM = 60%

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

Key

N

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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING D - CROSS VENTILATION

Scale: As indicated @A1
Drawing No.: DA3205
Issue: B

0 1 2 4 8 m

PLOT DATE & TIME: 25/08/2024 1:33:11 PM
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1. MAILBOX LOCATIONS ADDED
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3. ROBES INCREASED
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10. BUILDING ENTRY ARTICULATION AND PRIVACY SCREENS ADDED
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED



GFA - GROUND FLOOR: 1102 m²

1 BUILDING D - GROUND PLAN - GFA
1 : 250



GFA - LEVEL 1: 1058 m²

2 BUILDING D - LEVEL 1 PLAN - GFA
1 : 250



GFA - LEVEL 2: 1058 m²

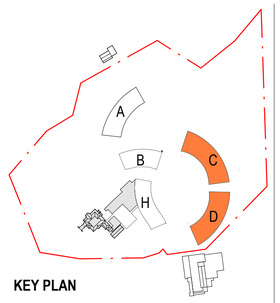
3 BUILDING D - LEVEL 2 PLAN - GFA
1 : 250



GFA - LEVEL 3: 579 m²

4 BUILDING D - LEVEL 3 PLAN - GFA
1 : 250

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

GFA CALCULATION : BUILDING D

GROUND :	1,102m²
LEVEL 1 :	1,058m²
LEVEL 2 :	1,058m²
LEVEL 3 :	579m²
TOTAL GFA:	**3,797m²**

No	Date	Description	Ver'd	Appr'd
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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
BUILDING D - GFA

Scale: As indicated @A1
Drawing No.: DA3206
Issue: B

0 1 2 4 8 m

PLOT DATE & TIME: 25/08/2024 1:33:26 PM
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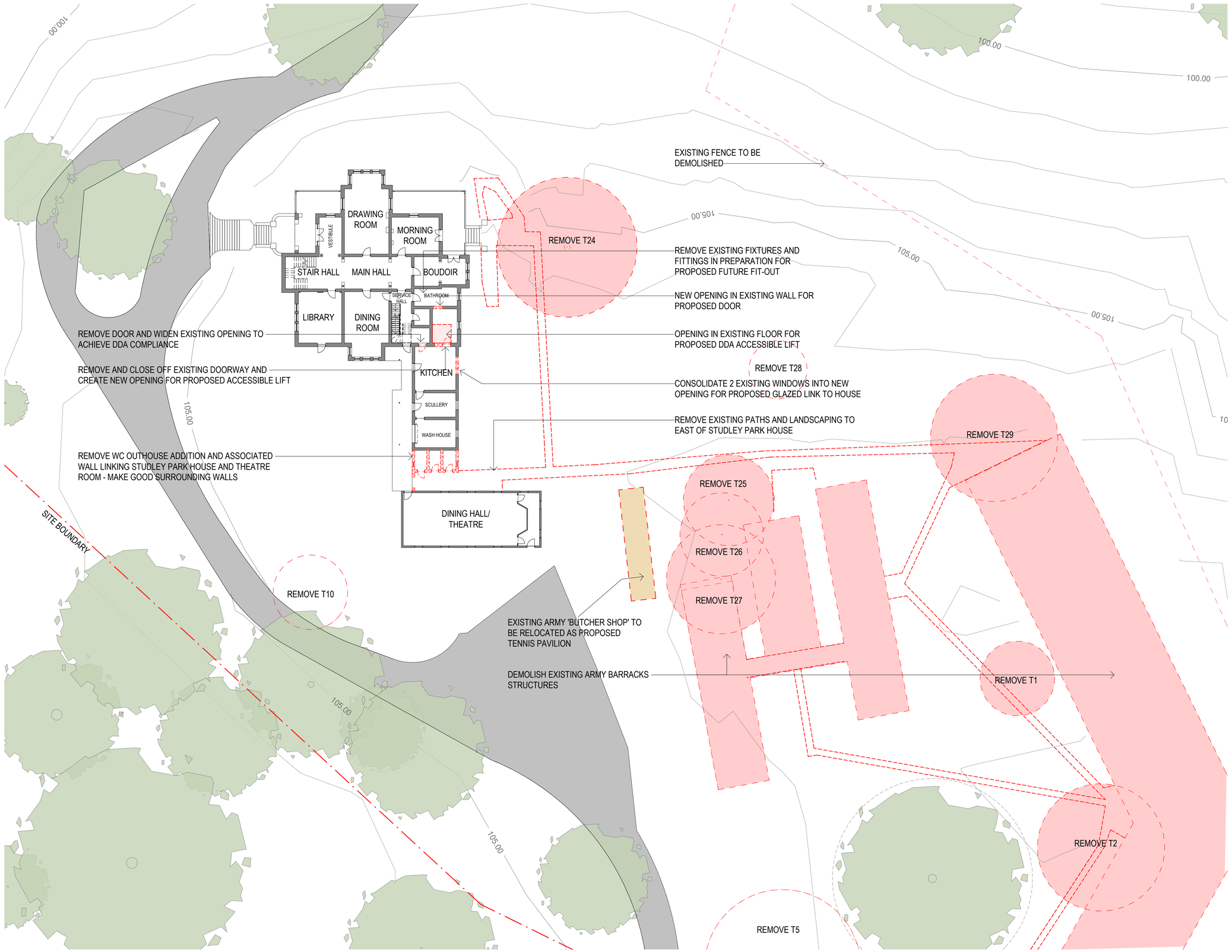
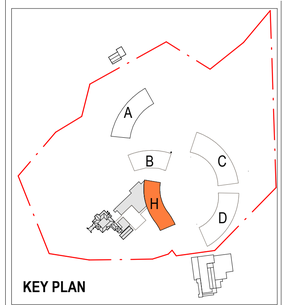


1 HOTEL DEMOLITION PLAN - GROUND LEVEL
1 : 200

Drawing Status
NOT FOR CONSTRUCTION



REFER TO ARBORISTS REPORT FOR DETAILS OF TREES ALLOCATED FOR REMOVAL

NB: REFER TO SCHEDULE OF CONSERVATION WORKS PREPARED BY WEIR PHILLIPS FOR DETAILED RESTORATION WORKS TO STUDLEY PARK HOUSE

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
DEMOLITION PLAN - GROUND LEVEL

Scale	Drawing No.	Issue
As indicated @A1	DA6001	B

0 2 4 8 16 m

PLOT DATE & TIME: 23/08/2024 1:33:31 PM
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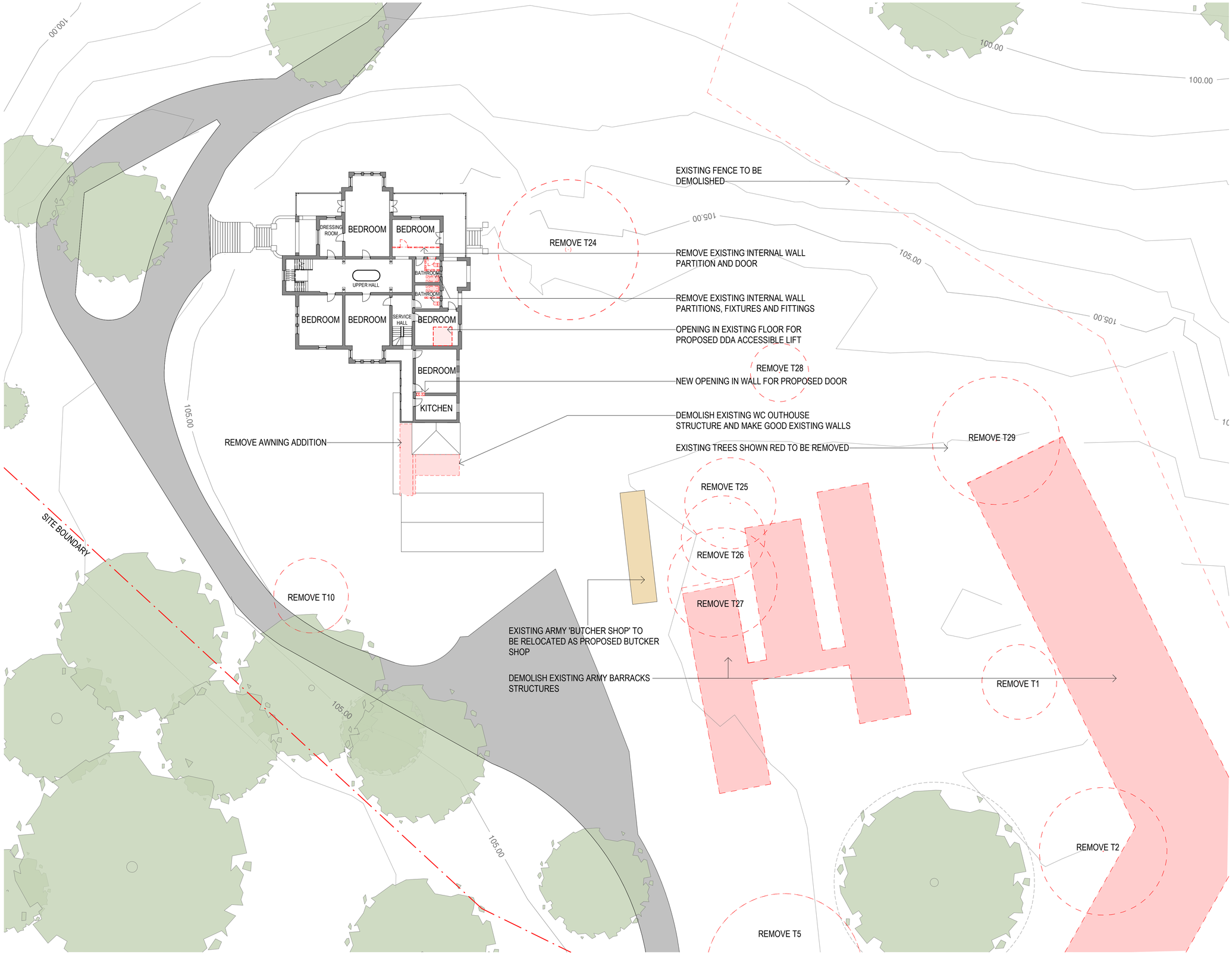
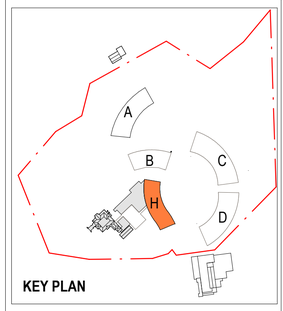


1 HOTEL DEMOLITION PLAN - LEVEL 1
1 : 200

Drawing Status
NOT FOR CONSTRUCTION



REFER TO ARBORISTS REPORT FOR DETAILS OF TREES ALLOCATED FOR REMOVAL

NB: REFER TO SCHEDULE OF CONSERVATION WORKS PREPARED BY WEIR PHILLIPS FOR DETAILED RESTORATION WORKS TO STUDLEY PARK HOUSE

No	Date	Description	Ver'd	Appr'd
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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
DEMOLITION PLAN - LEVEL 1

Scale	Drawing No.	Issue
As indicated @A1	DA6002	B

0 2 4 8 16 m

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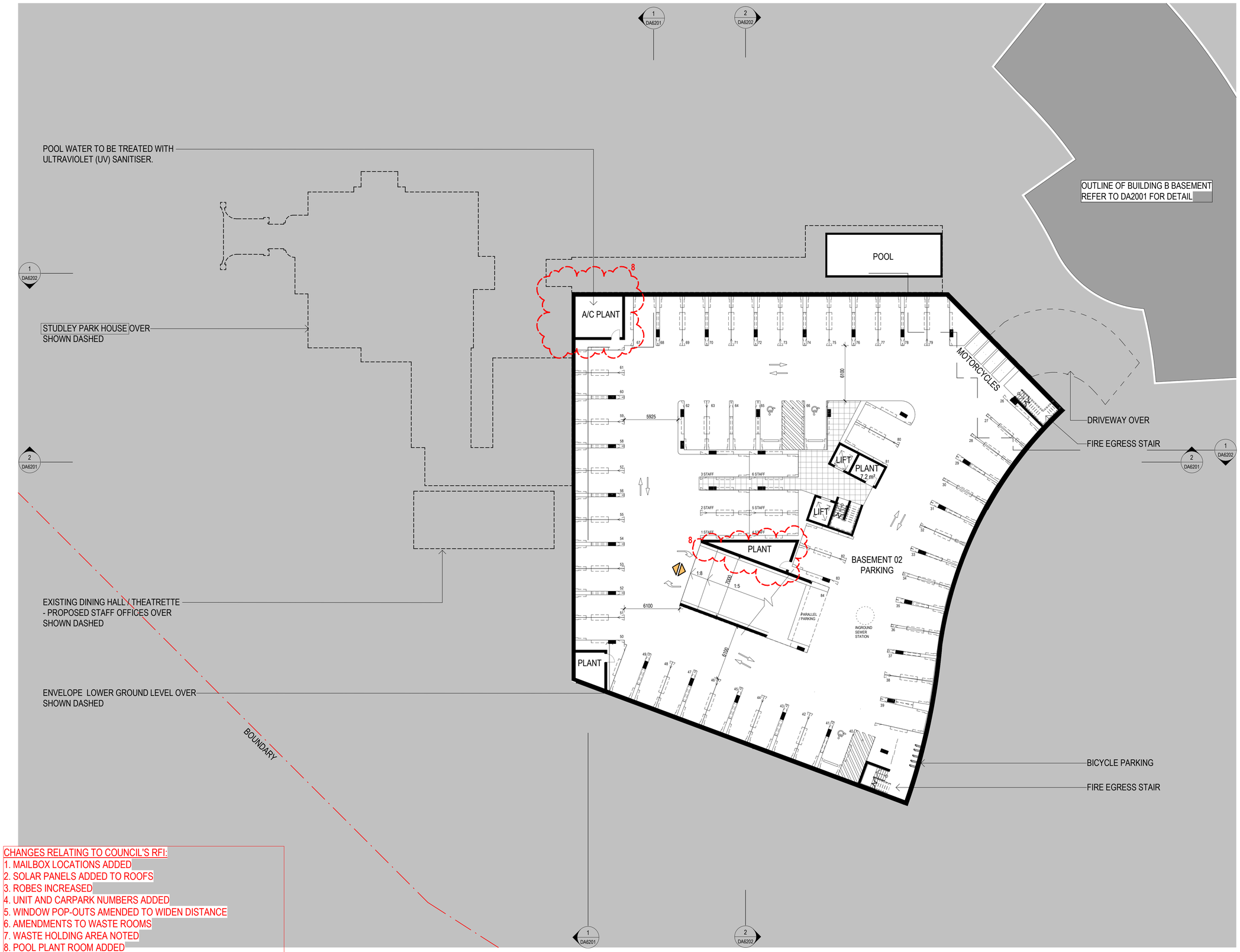

CHANGES RELATING TO COUNCIL'S RFI:
1. MAILBOX LOCATIONS ADDED
2. SOLAR PANELS ADDED TO ROOFS
3. ROBES INCREASED
4. UNIT AND CARPARK NUMBERS ADDED
5. WINDOW POP-OUTS AMENDED TO WIDEN DISTANCE
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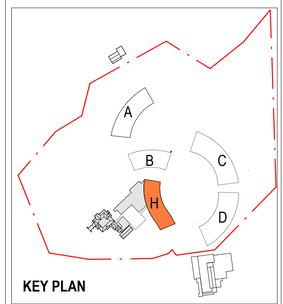
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED

1 PROPOSED HOTEL BASEMENT PLAN
1 : 200

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

REFER TO ARBORISTS REPORT FOR DETAILS OF TREES ALLOCATED FOR REMOVAL

BASEMENT LEVEL PARKING

HOTEL GUEST CAR SPACE (2.5M)	59
STAFF CAR SPACE (2.4M)	6
HOTEL CARPARKING BASEMENT	**65**
ACCESSIBLE CAR SPACE	3
BICYCLE PARKING	5
MOTORBIKE PARKING	4

NB: REFER TO SCHEDULE OF CONSERVATION WORKS PREPARED BY WEIR PHILLIPS FOR DETAILED RESTORATION WORKS TO STUDLEY PARK HOUSE

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
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Revisions

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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
HOTEL BASEMENT LEVEL PLAN

Scale	Drawing No.	Issue
As indicated @A1	DA6003	B

0 2 4 8 16 m

PLOT DATE & TIME: 25/08/2024 1:33:40 PM
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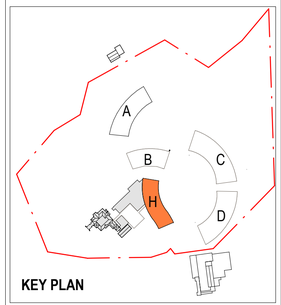
Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

REFER TO ARBORISTS REPORT FOR DETAILS OF TREES ALLOCATED FOR REMOVAL

LOWER GROUND LEVEL PARKING

HOTEL GUEST CAR SPACE (2.5M)	25
STAFF CAR SPACE (2.4M)	0
HOTEL CARPARKING LG	**25**
ACCESSIBLE CAR SPACE	0
BICYCLE PARKING	6
MOTORBIKE PARKING	0

NB: REFER TO SCHEDULE OF CONSERVATION WORKS PREPARED BY WEIR PHILLIPS FOR DETAILED RESTORATION WORKS TO STUDLEY PARK HOUSE

No	Date	Description	Ver'd	Appr'd
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Revisions

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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
HOTEL LOWER GROUND LEVEL PLAN

Scale	Drawing No.	Issue
As indicated @A1	DA6004	B

0 2 4 8 16 m

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PLOT DATE & TIME: 26/08/2024 12:42:36 PM

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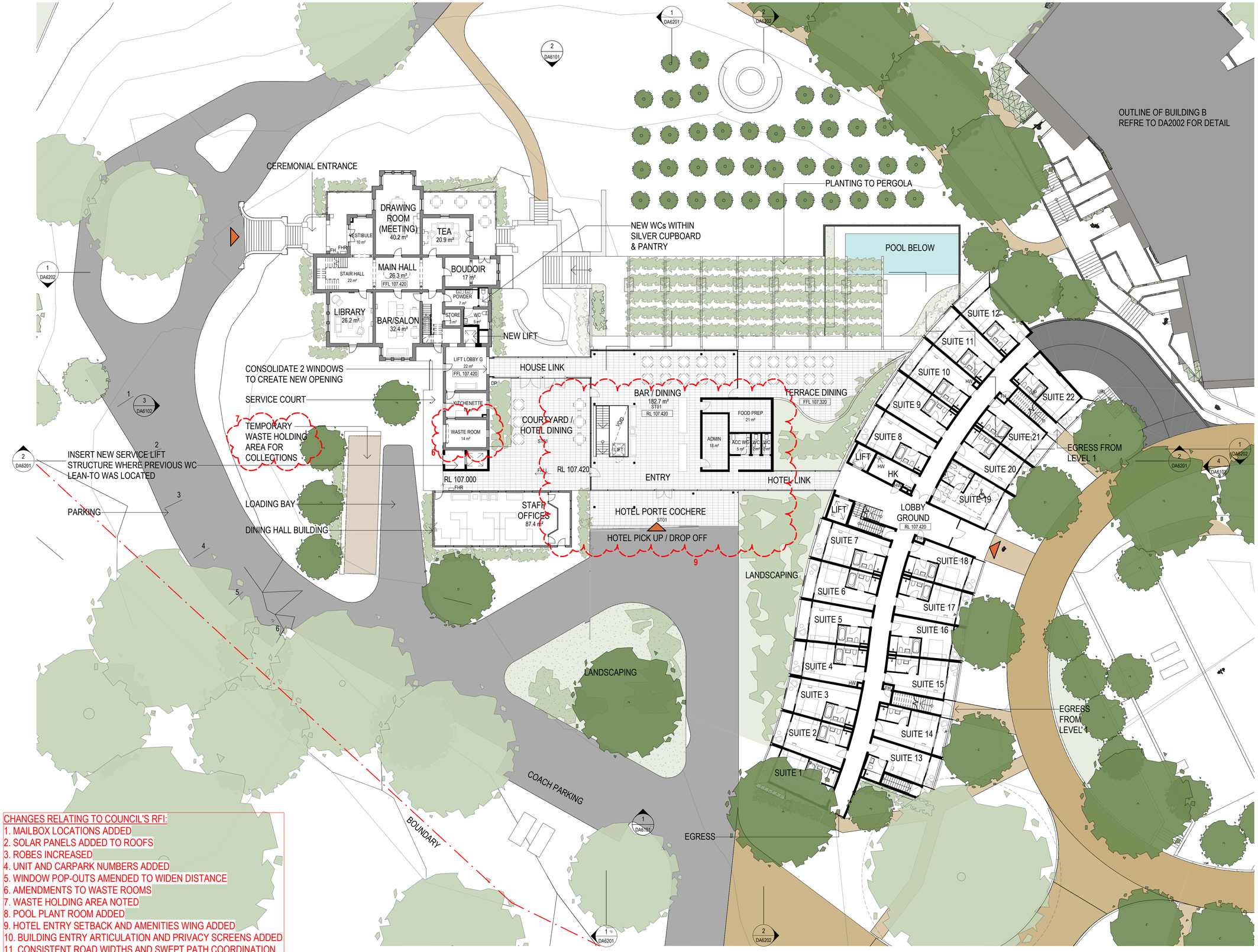

CHANGES RELATING TO COUNCIL'S RFI:
1. MAILBOX LOCATIONS ADDED
2. SOLAR PANELS ADDED TO ROOFS
3. ROBES INCREASED
4. UNIT AND CARPARK NUMBERS ADDED
5. WINDOW POP-OUTS AMENDED TO WIDEN DISTANCE
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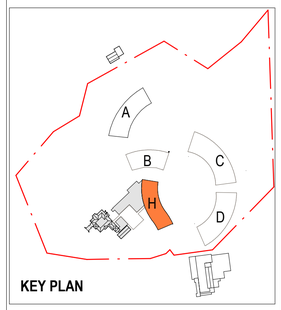
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

REFER TO ARBORISTS REPORT FOR DETAILS OF TREES ALLOCATED FOR REMOVAL

NB: REFER TO SCHEDULE OF CONSERVATION WORKS PREPARED BY WEIR PHILLIPS FOR DETAILED RESTORATION WORKS TO STUDLEY PARK HOUSE

No	Date	Description	Ver'd	Appr'd
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Revisions

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ABN 53 003 782 250

Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
HOTEL GROUND LEVEL PLAN

Scale	Drawing No.	Issue
As indicated @A1	DA6005	B

0 2 4 8 16 m

PLOTTED & CHECKED BY: Author
PLOT DATE & TIME: 26/08/2024 12:42:55 PM

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Drawing Status

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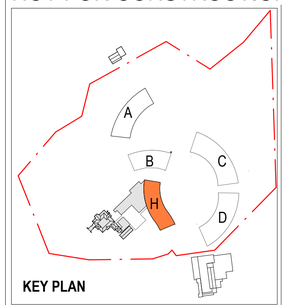

KEY PLAN

REFER TO ARBORISTS REPORT FOR DETAILS OF TREES ALLOCATED FOR REMOVAL

NB: REFER TO SCHEDULE OF CONSERVATION WORKS PREPARED BY WEIR PHILLIPS FOR DETAILED RESTORATION WORKS TO STUDLEY PARK HOUSE

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ABN 53 003 782 250

Project

STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title

HOTEL LEVEL 1 PLAN

Scale	Drawing No.	Issue
As indicated @A1	DA6006	B

0 2 4 8 16 m

PLOT DATE & TIME: 26/08/2024 12:43:15 PM
PLOTTED & CHECKED BY: Author

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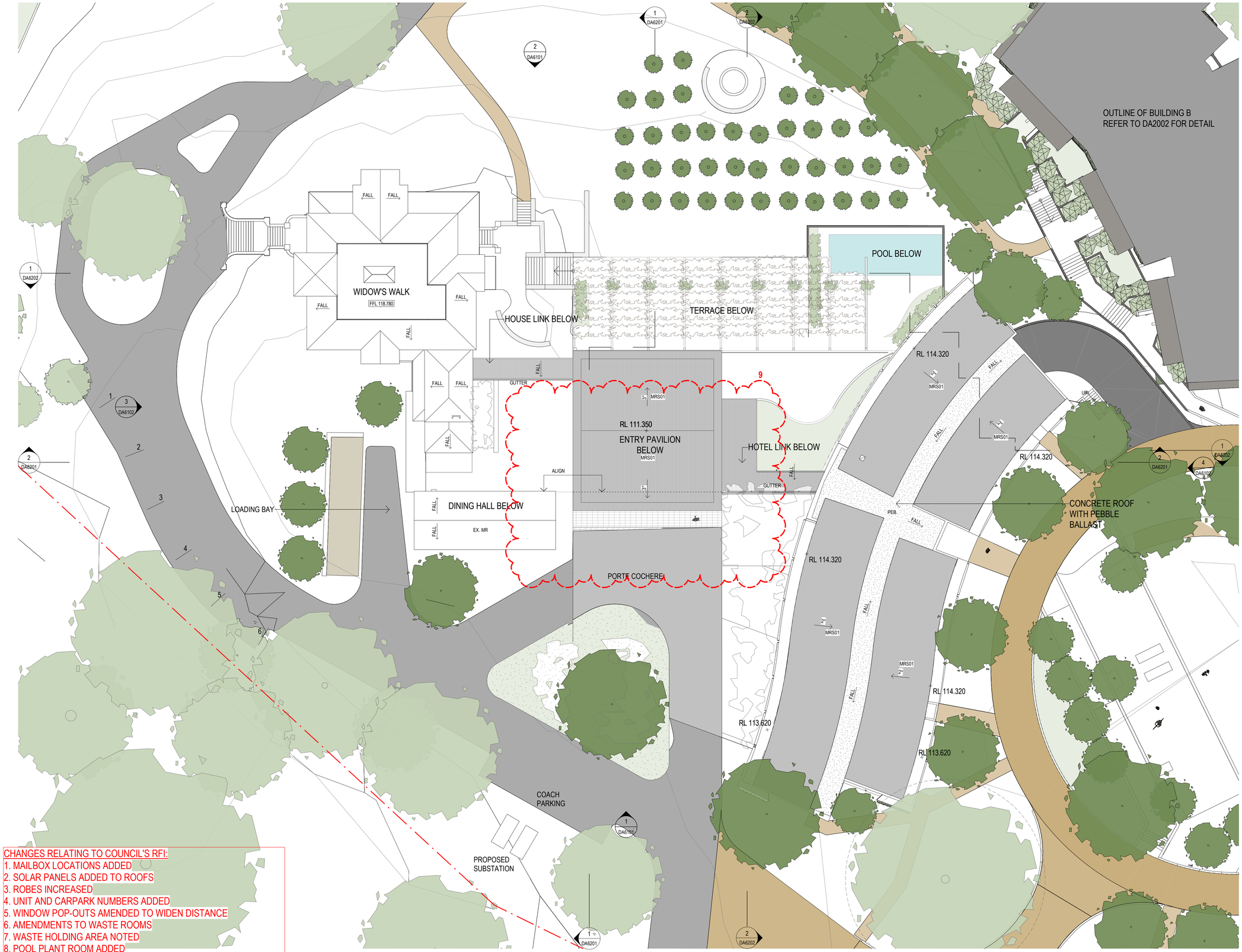

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Drawing Status

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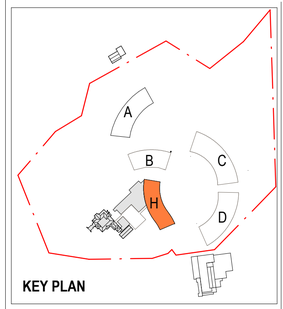

KEY PLAN

REFER TO ARBORISTS REPORT FOR DETAILS OF TREES ALLOCATED FOR REMOVAL

NB: REFER TO SCHEDULE OF CONSERVATION WORKS PREPARED BY WEIR PHILLIPS FOR DETAILED RESTORATION WORKS TO STUDLEY PARK HOUSE

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

Key

N

Client

MR PETER MORAN

Architect

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Allen Jack+Cottier

79 Myrtle Street Chippendale NSW 2008 AUSTRALIA
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ABN 53 003 782 250

Project

STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title

HOTEL ROOF PLAN

Scale	Drawing No.	Issue
As indicated @A1	DA6007	B

0 2 4 8 16 m

PLOT DATE & TIME: 26/08/2024 12:43:20 PM PLOTTED & CHECKED BY: Author

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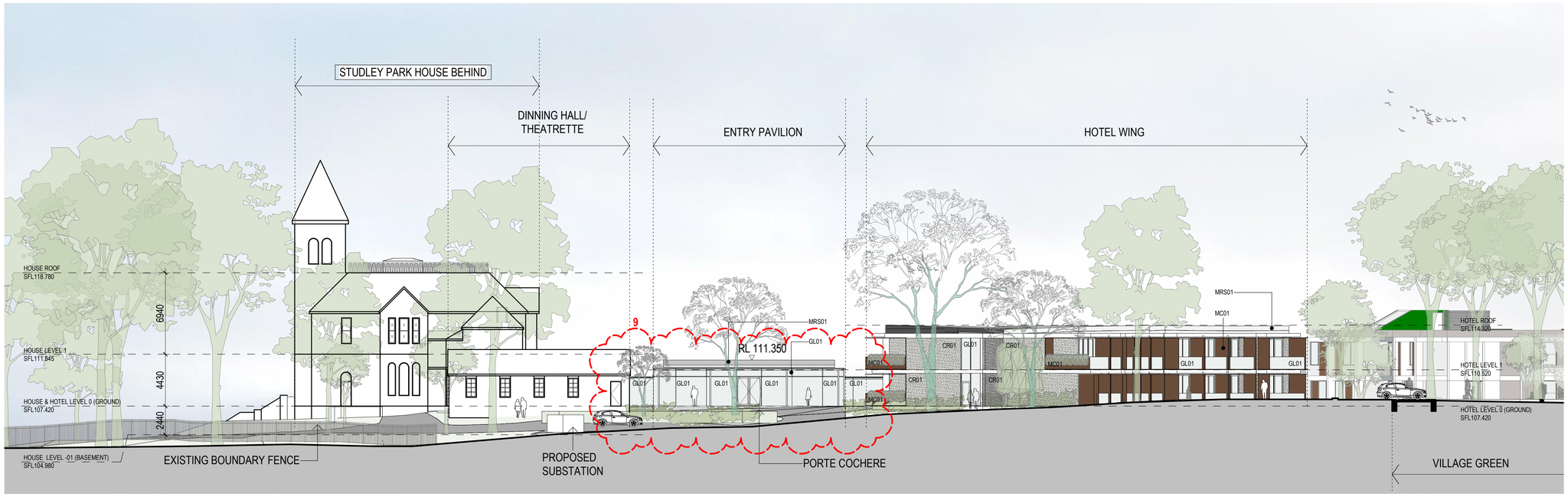
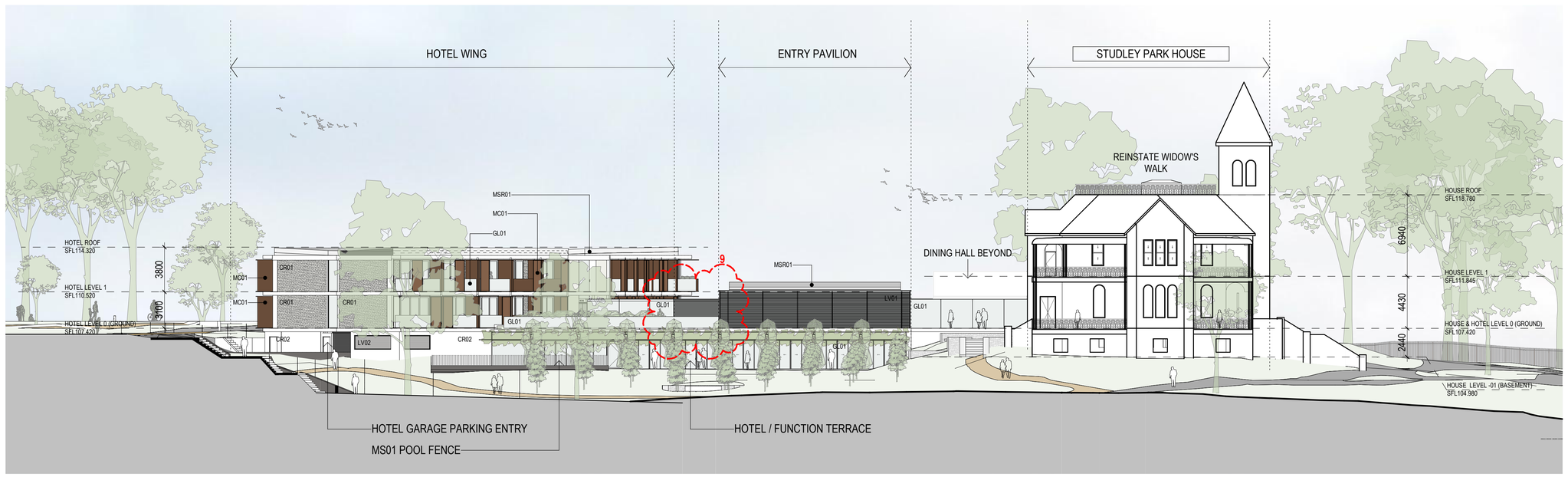
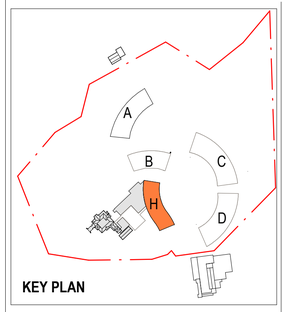
CHANGES RELATING TO COUNCIL'S RFI:
1. MAILBOX LOCATIONS ADDED
2. SOLAR PANELS ADDED TO ROOFS
3. ROBES INCREASED
4. UNIT AND CARPARK NUMBERS ADDED
5. WINDOW POP-OUTS AMENDED TO WIDEN DISTANCE
6. AMENDMENTS TO WASTE ROOMS
7. WASTE HOLDING AREA NOTED
8. POOL PLANT ROOM ADDED
9. HOTEL ENTRY SETBACK AND AMENITIES WING ADDED
10. BUILDING ENTRY ARTICULATION AND PRIVACY SCREENS ADDED
11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED



1 PROPOSED ELEVATION - SOUTH
1 / DA6004 1 : 200



2 PROPOSED ELEVATION - NORTH
1 / DA6004 1 : 200



REFER TO ARBORISTS REPORT FOR DETAILS OF TREES ALLOCATED FOR REMOVAL

NB: REFER TO SCHEDULE OF CONSERVATION WORKS PREPARED BY WEIR PHILLIPS FOR DETAILED RESTORATION WORKS TO STUDLEY PARK HOUSE

Drawing Status
NOT FOR CONSTRUCTION

No	Date	Description	Ver'd	Appr'd
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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
HOTEL ELEVATIONS - SHEET 1

Scale	Drawing No.	Issue
As indicated @A1	DA6101	B

0 2 4 8 16 m

PLOT DATE & TIME: 25/08/2024 1:35:46 PM
PLOTTED & CHECKED BY: Author

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11. CONSISTENT ROAD WIDTHS AND SWEPT PATH COORDINATION
12. CHANGES TO GOLF COURSE AS REQUIRED

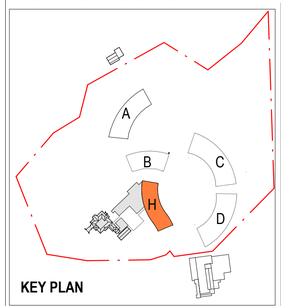


3 PROPOSED ELEVATION - WEST
1 / DA6004 1 : 200



4 PROPOSED ELEVATION - EAST
1 / DA6004 1 : 200

Drawing Status
NOT FOR CONSTRUCTION



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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
HOTEL ELEVATIONS - SHEET 2

Scale: As indicated @A1
Drawing No.: DA6102
Issue: B

0 2 4 8 16 m

PLOT DATE & TIME: 25/08/2024 1:36:40 PM
PLOTTED & CHECKED BY: Author

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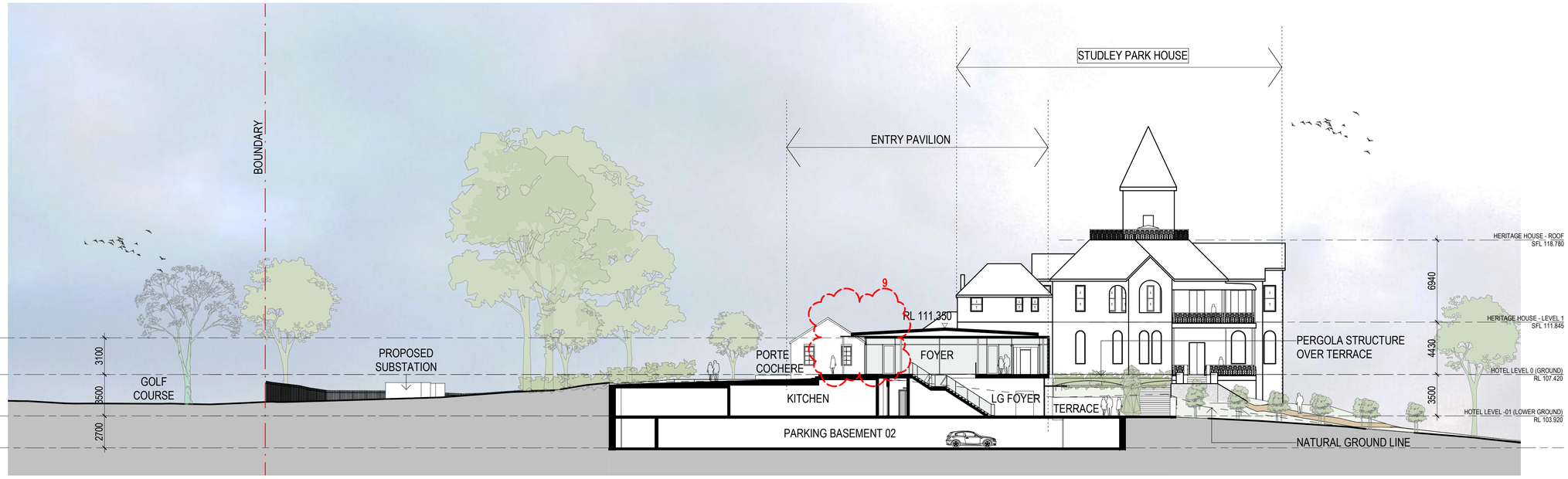
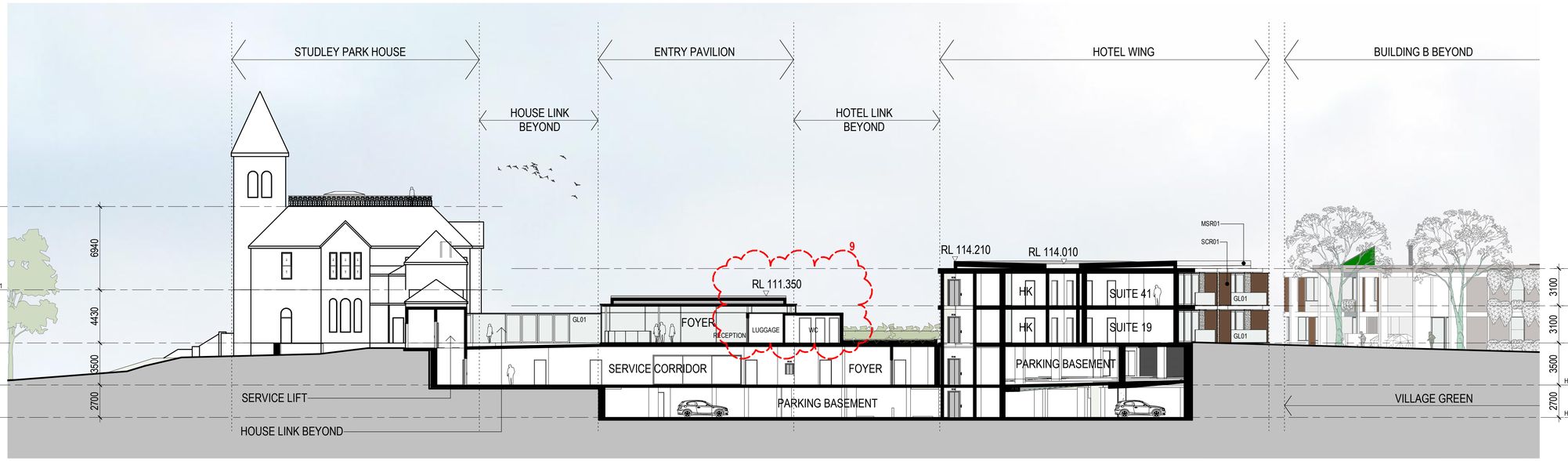
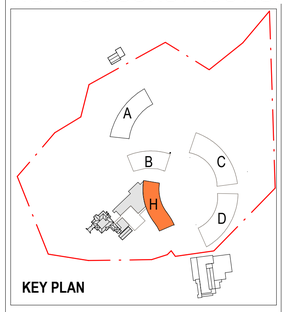


1 PROPOSED SECTION 2
1 / DA6003 1 : 200



2 PROPOSED SECTION 1
1 / DA6003 1 : 200

Drawing Status
NOT FOR CONSTRUCTION



REFER TO ARBORISTS REPORT FOR DETAILS OF TREES ALLOCATED FOR REMOVAL

NB: REFER TO SCHEDULE OF CONSERVATION WORKS PREPARED BY WEIR PHILLIPS FOR DETAILED RESTORATION WORKS TO STUDLEY PARK HOUSE

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
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Revisions

Key

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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
HOTEL SECTIONS - SHEET 1

Scale	Drawing No.	Issue
As indicated @A1	DA6201	B

0 2 4 8 16 m

PLOT DATE & TIME: 25/08/2024 1:36:56 PM
PLOTTED & CHECKED BY: Author

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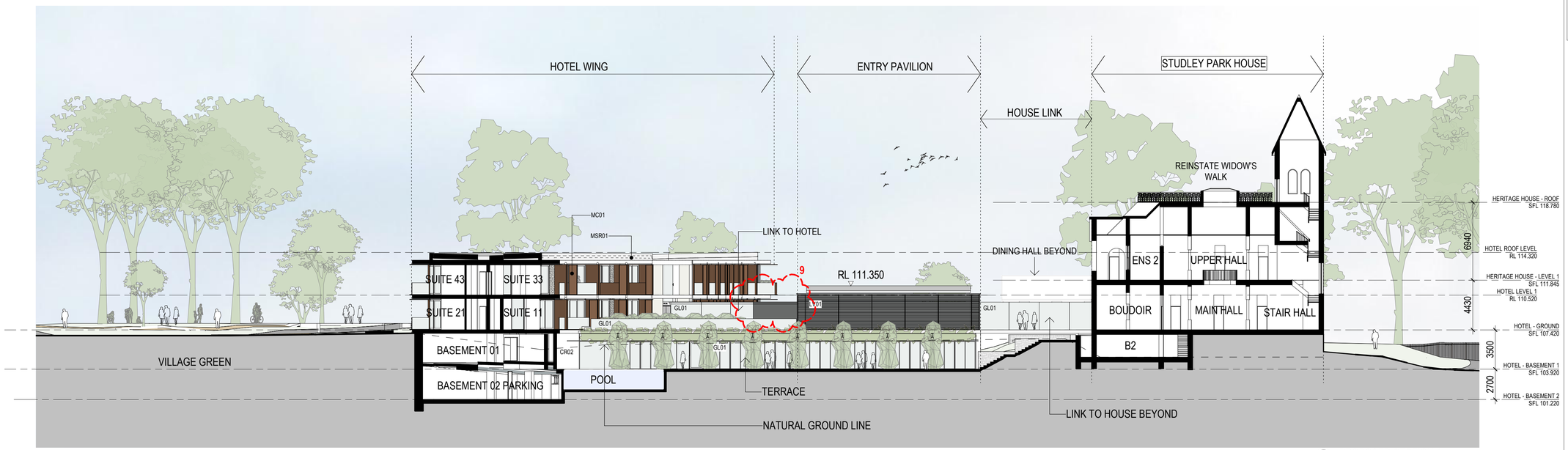
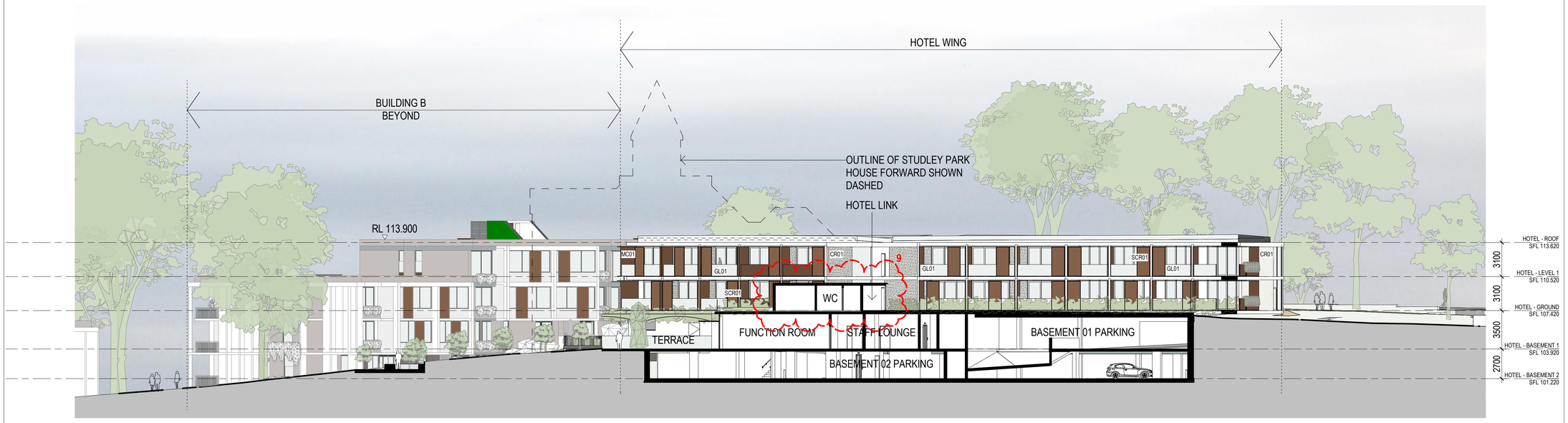
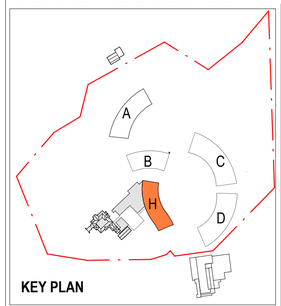


1 PROPOSED SECTION 4
1 / DA6003 1 : 200



2 PROPOSED SECTION 3
1 / DA6003 1 : 200

Drawing Status
NOT FOR CONSTRUCTION



KEY PLAN

REFER TO ARBORISTS REPORT FOR DETAILS OF TREES ALLOCATED FOR REMOVAL

NB: REFER TO SCHEDULE OF CONSERVATION WORKS PREPARED BY WEIR PHILLIPS FOR DETAILED RESTORATION WORKS TO STUDLEY PARK HOUSE

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
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Revisions

Key

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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
HOTEL SECTIONS - SHEET 2

Scale: As indicated @A1
Drawing No.: DA6202
Issue: B

0 2 4 8 16 m

PLOT DATE & TIME: 25/08/2024 1:37:41 PM
PLOTTED & CHECKED BY: Author

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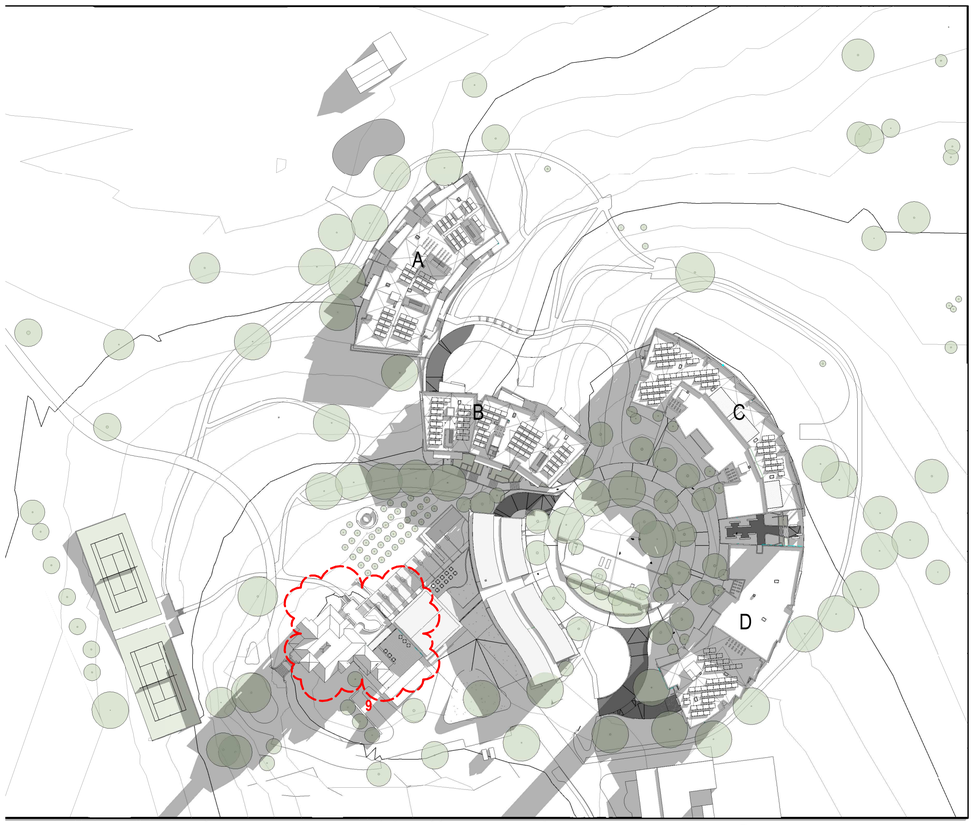

1 JUNE 22 - 9AM

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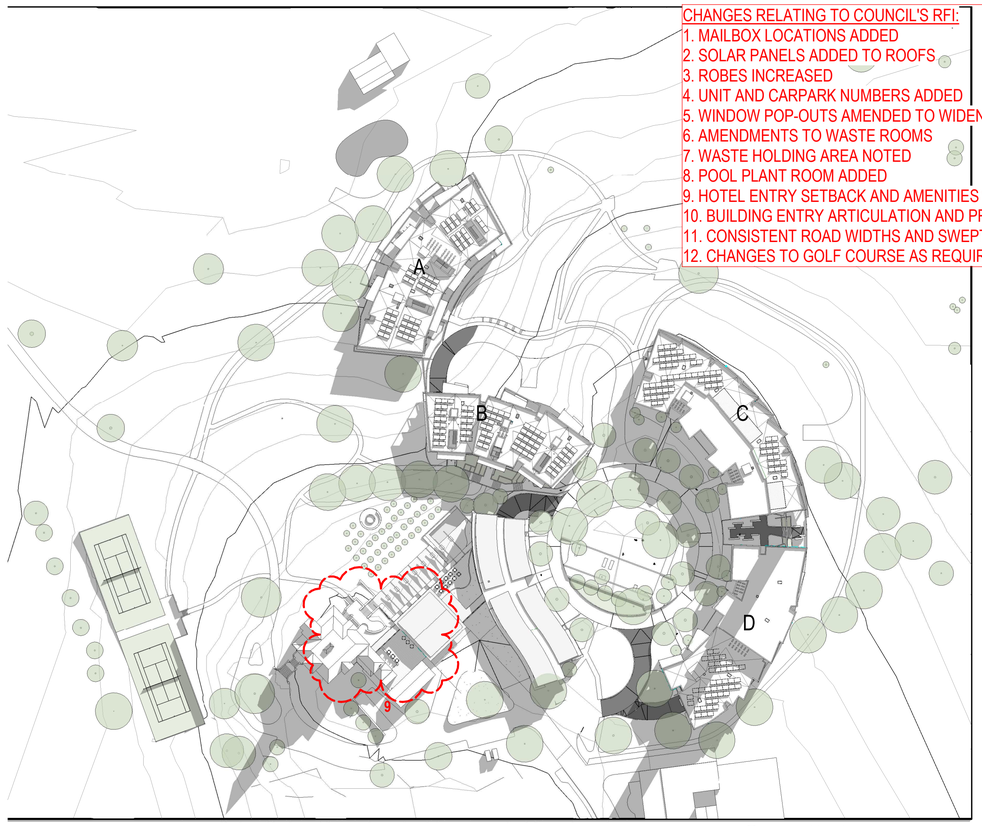

2 JUNE 22 - 10AM

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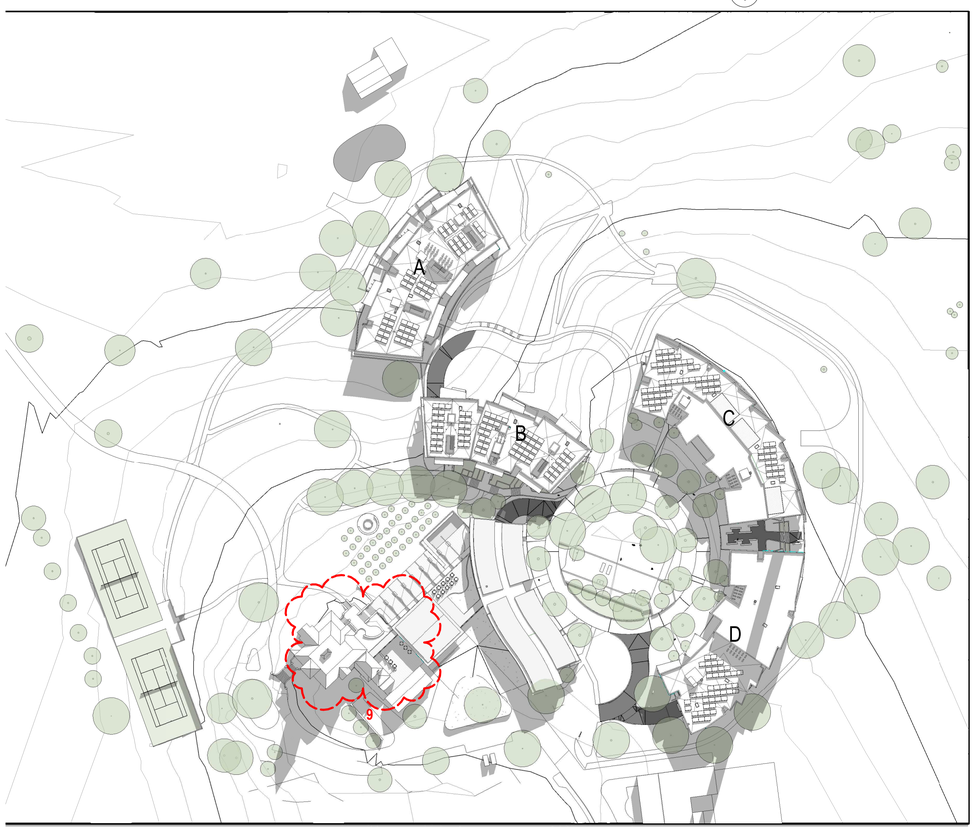

3 JUNE 22 - 11AM

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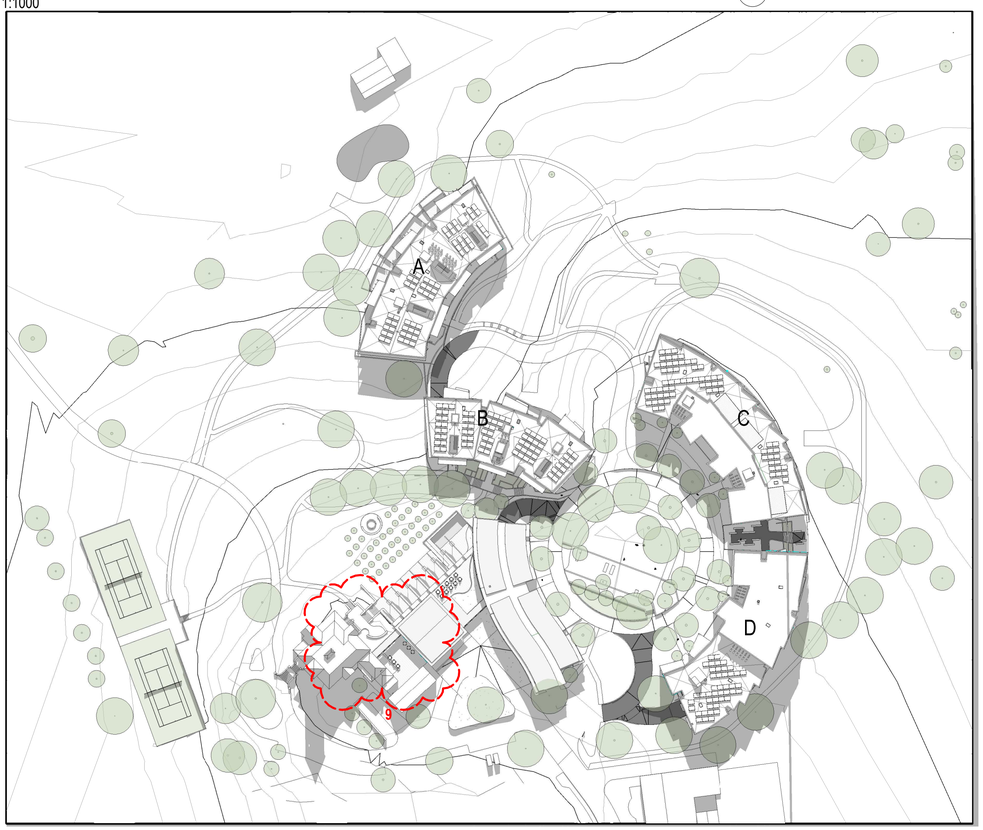

4 JUNE 22 - 12PM

1:1000

CHANGES RELATING TO COUNCIL'S RFI:
1. MAILBOX LOCATIONS ADDED
2. SOLAR PANELS ADDED TO ROOFS
3. ROBES INCREASED
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12. CHANGES TO GOLF COURSE AS REQUIRED

Drawing Status
NOT FOR CONSTRUCTION

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
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Revisions

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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
SHADOW DIAGRAMS - SHEET 1

Scale	Drawing No.	Issue
1 : 100 @A1	DA7001	B

0 20 40 80 160 m

PLOTTED & CHECKED BY: Author
PLOT DATE & TIME: 25/08/2024 1:38:55 PM

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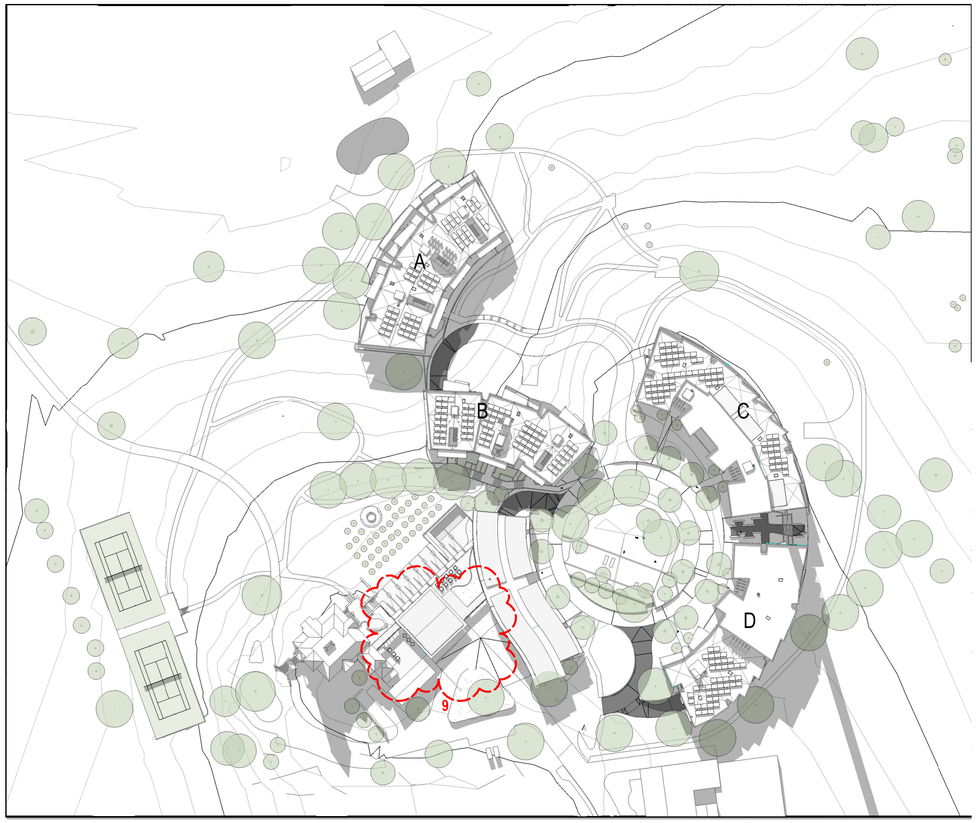

1 JUNE 22 - 1PM
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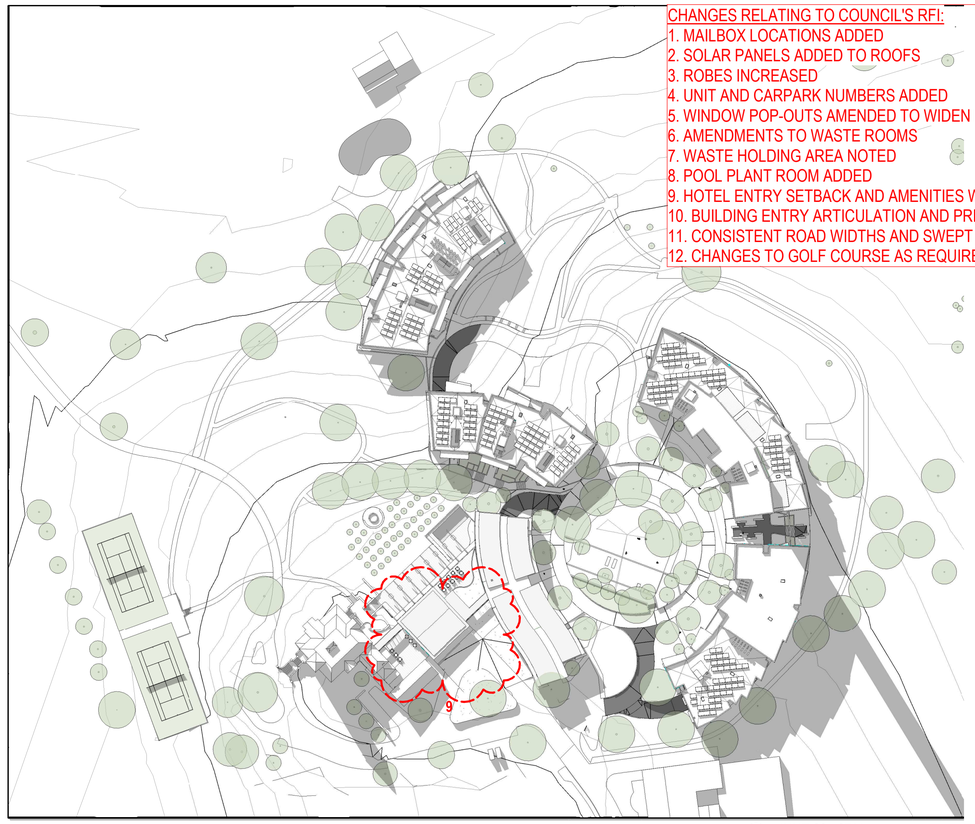

2 JUNE 22 - 2PM
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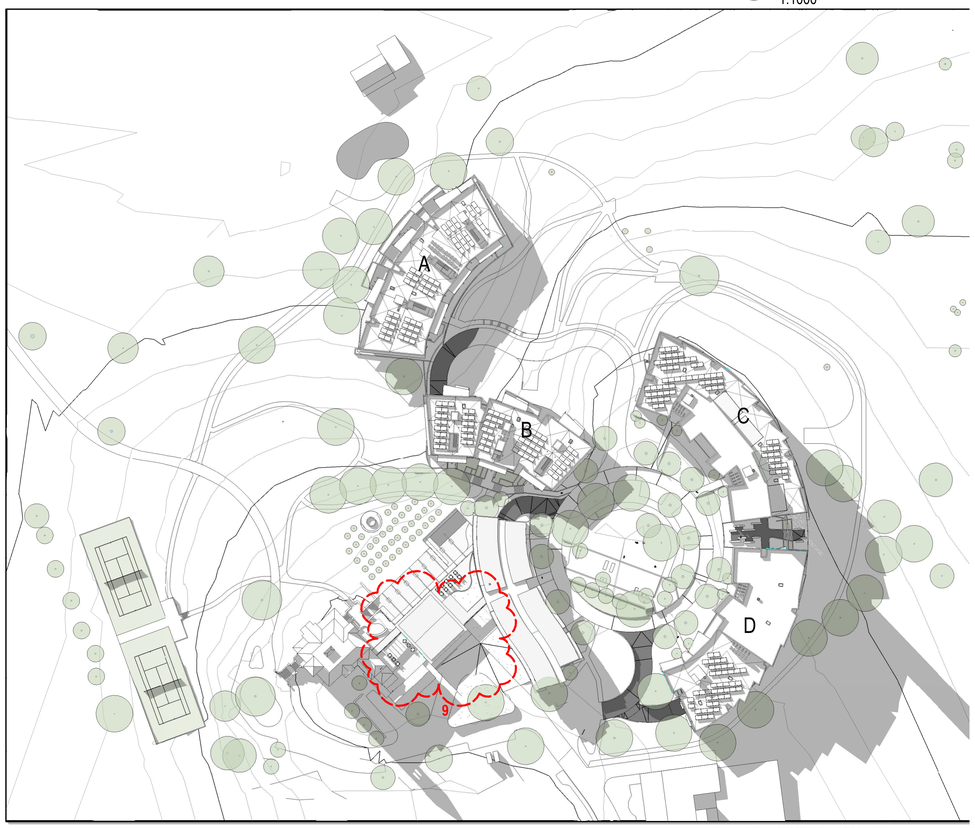

3 JUNE 22 - 3PM
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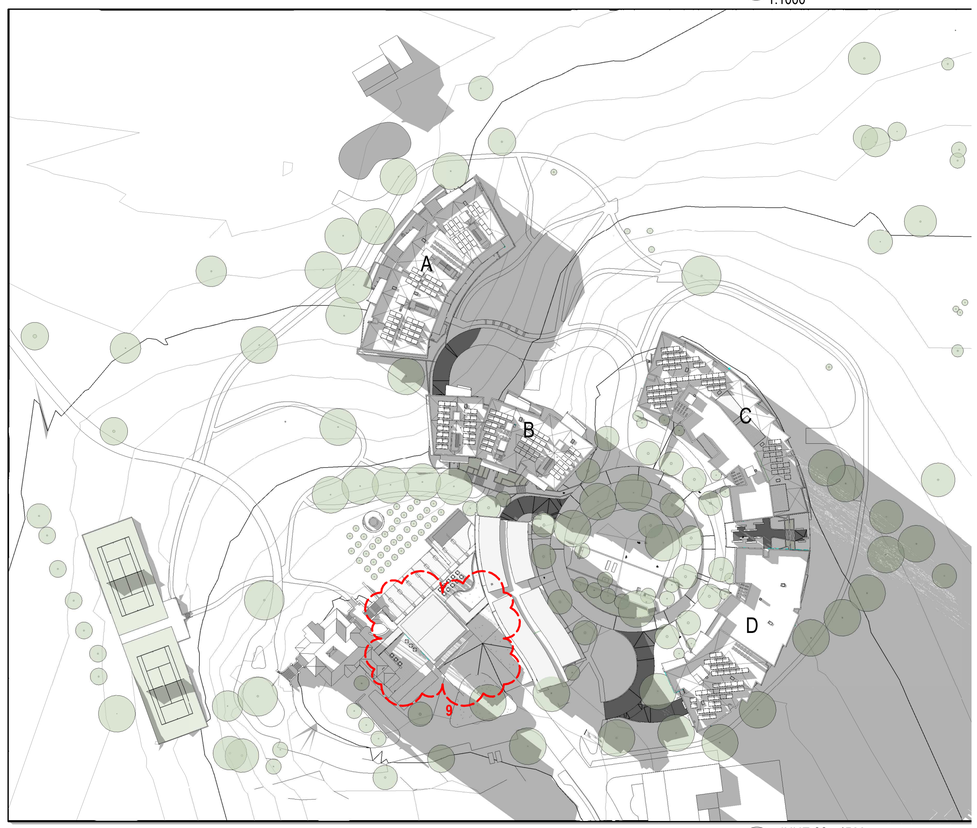

4 JUNE 22 - 4PM
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Project
STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title
SHADOW DIAGRAMS - SHEET 2

Scale	Drawing No.	Issue
1 : 100 @A1	DA7002	B

PLOT DATE & TIME: 25/08/2024 1:40:29 PM
PLOTTED & CHECKED BY: Author

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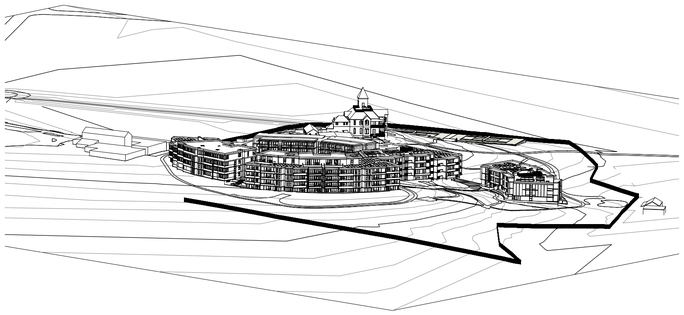
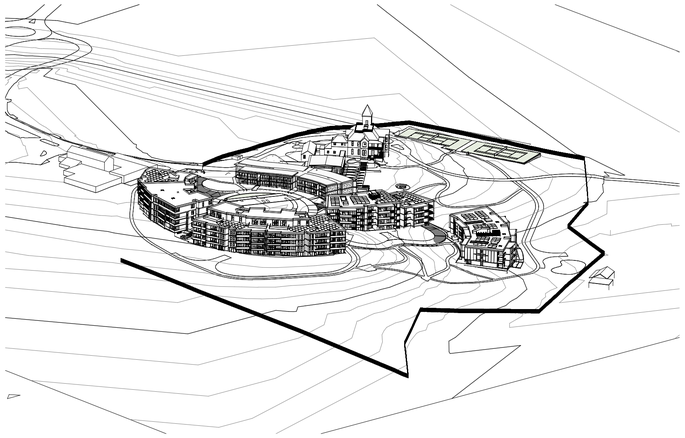
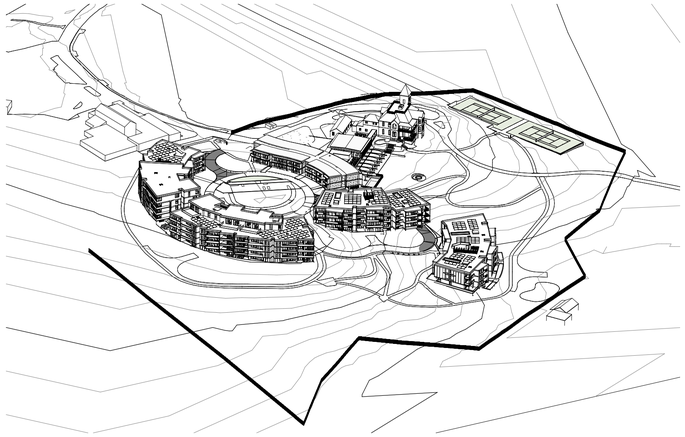




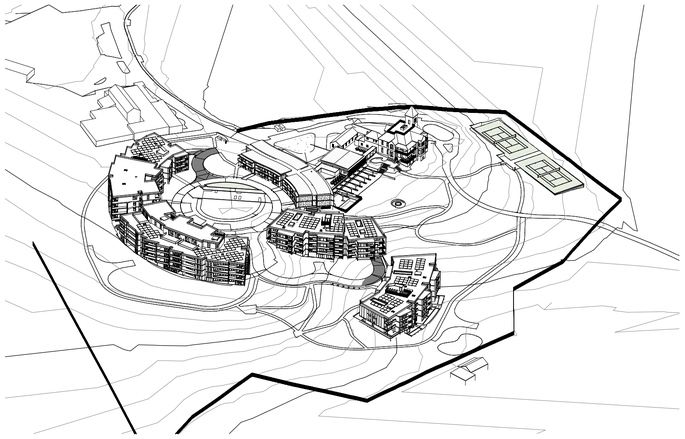


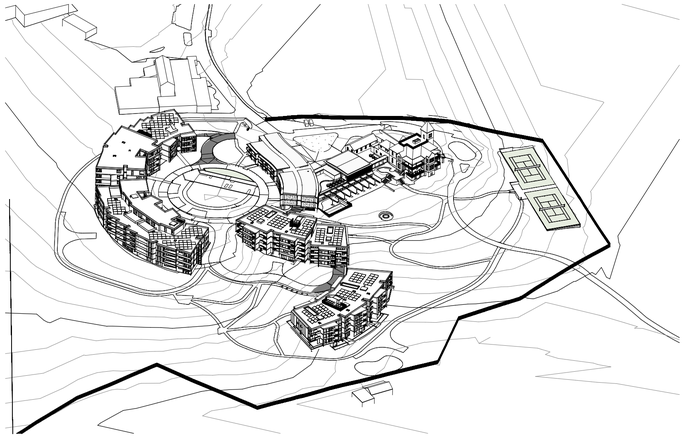
MORNING

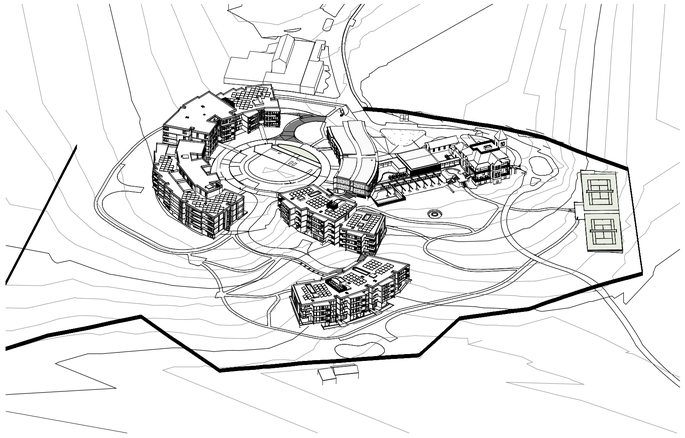
1 JUNE 22 - 8AM

2 JUNE 22 - 9AM

3 JUNE 22 - 10AM





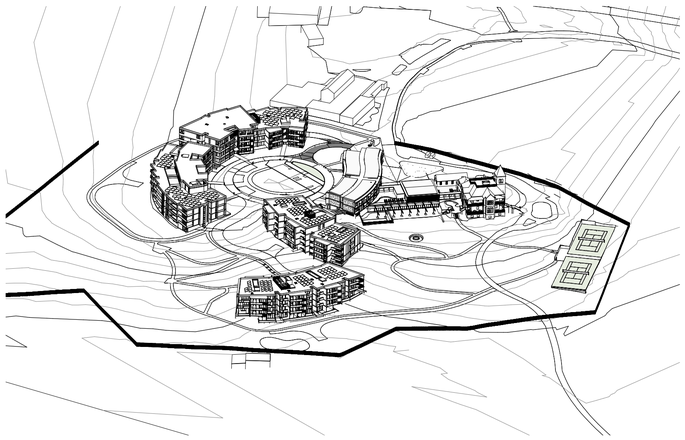


MIDDAY

4 JUNE 22 - 11AM

5 JUNE 22 - 12PM

6 JUNE 22 - 1PM







AFTERNOON

7 JUNE 22 - 2PM

8 JUNE 22 - 3PM

9 JUNE 22 - 4PM

Drawing Status

NOT FOR CONSTRUCTION

SUN EYE VIEWS DIAGRAMS INFORM THE EXPOSURE OF THE DEVELOPMENT (WINDOWS, ROOFS, GROUND SURFACES) TO SUNLIGHT AT THE TIMES INDICATED. I.E. THOSE PARTS OF THE SITE OBSCURED BY BUILDINGS WILL BE IN SHADE.
NOTE: OTHER CONTRIBUTORS TO SHADE SUCH AS FENCELINES, TREES AND SHRUBS ARE INTENTIONALLY NOT SHOWN.

NOTE:DEVELOPMENT (WINDOWS, ROOFS, GROUND SURFACES) TO SUNLIGHT AT THE TIMES INDICATED .I.E. THOSE PARTS OF THE SITE OBSERVED BY BUILDINGS WILL BE IN SHADE .OTHER CONTRIBUTORS TO SHADE SUCH AS FENCELINES, TREES AND SHRUBS ARE INTENTIONALLY NOT SHOWN.

No	Date	Description	Ver'd	Appr'd
A	20/01/2023	DEVELOPMENT APPLICATION ISSUE	VB	JW
B	26/08/2024	COUNCIL RFI AMENDMENTS	VB	JW

Revisions

Key

Client

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Architect

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ABN 53 003 782 250

Project

STUDLEY PARK
52 LODGES ROAD, NARELLAN
NSW 2567

Proj No. 16060

Drawing Title

SUN EYE VIEWS

Scale	Drawing No.	Issue
@A1	DA7003	B

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PLOTTED & CHECKED BY: Author

PLOT DATE & TIME: 23/08/2024 2:41:41 PM

Do not scale drawings. Use figured dimensions only. Check & verify levels and dimensions on site prior to the commencement of any work, the preparation of shop drawings or the fabrication of components.This drawing is the copyright of Allen Jack + Cottier Architects and is protected under the Copyright Act 1968. Do not alter, reproduce or transmit in any form, or by any means without the express permission of Allen Jack + Cottier Architects.Nominated Architects: Michael Heenan 5264, Peter Ireland 6661

STUDLEY PARK

Landscape Development Application

For Development Application

5		OCT 2024
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prepared for

PETER MORAN

prepare by

LANDSCAPE ARCHITECTS AND URBAN DESIGNERS:

ep | environmental partnership

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ABN 53 088 175 437

LEGEND

GENERAL ARRANGEMENT

- SP — Sandstone pavement to building entry and courtyards
- BW — Mini mesh boardwalk structure to Managed ecological zone
- CP — Concrete pavement (pedestrian footpath) - Light exposed aggregate finish
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- BBQ
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- T — Turf on grade
- TP — Turf on podium
- TC — Reinforced turf
- GB — Garden bed on grade
- GBP — Garden bed on podium
- MB — Mass planting bed
- ME — Managed ecological zone
- CSV — Bushland conservation zone
- Bioretention basin
- Surveyed Pimelea spicata location
- Existing tree to be protected and retained (Existing tree canopy; Tree Protection Zone; Tree number Details refer Arborist's Report; T xx)
- Existing tree to be removed (18 in total)
- Proposed tree planting (84 in total) (xx)
- Building entry/exit
- Building egress access
- Building driveway entry/exit
- Building basement outline
- SITE BOUNDARY — Site boundary

PLANTINGS

- Turf
- Turf on podium
- Reinforced turf
- Ground cover-species refer planting schedule
- Shrubs-, species refer planting schedule
- Bushland conservation zone
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- Existing tree to be protected and retained (Existing tree canopy; Tree Protection Zone; Tree number Details refer Arborist's Report; T xx)
- Existing tree to be removed (18 in total)
- Proposed tree planting (87 in total)-species refer planting schedule (xx)
- Building basement outline
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LEVELS

- ERL XX.XX — Existing spot levels
- FL XX.XX — Proposed finished ground levels
- TOW XX.XX — Proposed top of wall levels
- BOW XX.XX — Proposed bottom of wall levels
- TOK XX.XX — Proposed top of kerb levels
- TOH XX.XX — Proposed top of hob levels
- fall — Nominal embankment gradient (1:3 max.)
- 1:xx — Ramp or walkway gradient as shown

PLANTING SCHEDULE

Public Communal Space Plant Schedule

ID	Qty	Common Name	Botanical Name	Size	Mature Height	Mature Spread	Native (N)
Trees							
BR	3	Illawarra Flame Tree	Brachychiton acerifolius	100Litre	15m	10m	as shown
EM	15	Grey Box	Eucalyptus moluccana	100Litre	15 - 20m	6 - 10m	as shown
ER	3	Blueberry Ash	Elaeocarpus reticulatus	100Litre	6 - 8m	4m	as shown
ET	23	Forest Red Gum	Eucalyptus tereticornis	100Litre	over 30m	6 - 12m	as shown
FH	3	Hill's Weeping Fig	Ficus Hillii	100Litre	10 - 15m	6 - 10m	as shown
JM	4	Jacaranda	Jacaranda mimosifolia	100Litre	10 - 15m	10 - 15m	as shown
LI	10	Crepe Myrtle	Lagerstroemia indica	100Litre	5 - 10m	3.5 - 6m	as shown
MG	3	Little Gem Southern Magnolia	Magnolia grandiflora 'Little Gem'	100Litre	4 - 6m	2.0 - 3.5m	as shown
MGg	3	Southern Magnolia	Magnolia grandiflora	100Litre	15m	12m	as shown
PCc	8	Ornamental Pear	Pyrus calleryana 'Chanticleer'	100Litre	11m	6m	as shown
QP	3	Pin Oak	Quercus palustris	100Litre	15m	10m	as shown
SP	9	Magenta Lillypilly	Syzygium paniculatum	100Litre	3 - 15m	2 - 10m	as shown
UPl	2	Golden Elm	Ulmus parvifolia 'Lutescens'	100Litre	10m	12m	as shown
Shrubs							
ACl	165	River Wattle	Acacia cognata 'Limelight'	200mm	0.5 - 1.0m	1.0 - 1.2m	600mm
AGa	26	Century Plant	Agave attenuata	200mm	0.75 - 0.9m	0.6 - 0.9m	as shown
AMs	776	Oyster Plant	Acanthus mollis	200mm	1m	1m	600mm
AN	111	Birds Nest Fern	Asplenium Nidus	200mm	0.6 - 1m	1.5m	600mm
BAr	7	Swamp Banksia, Large-leaf Banksia	Banksia robur	200mm	0.9 - 1.5m	1.2 - 2.0m	1000mm
BS	3	Hairpin Banksia	Banksia spinulosa	200mm	2m	2m	1000mm
CAa	60	White Correa	Correa alba	200mm	0.9 - 1.5m	0.9 - 1.2m	600mm
CPm	104	Swamp Lily, River Lily	Crinum pedunculatum	200mm	1 - 3m	1.5 - 3m	600mm
DE	75	Gymea Lily	Doryanthes excelsa	200mm	1.2 - 2m	1.2 - 2.0m	600mm
HFg	46	Native frangipani	Hymenosporum flavum 'Gold Nugget'	200mm	0.5 - 0.75m	0.5 - 0.75m	400mm
LHk	234	Katie Belles	Lomandra hystrix 'Katie Belles'	200mm	1.5 - 1.8m	1.2 - 1.5m	600mm
LN	262	Sweet Bay	Laurus nobilis	200mm	3 - 5m but regular trim required to ensure 1m high max.	2.0 - 3.5m	1000mm
VO	71	Dense Fence Viburnum	Viburnum odoratissmum 'Dense Fence'	200mm	2.5m	2 m	800mm
WB	12	Blue Gem	Westringia 'Blue Gem'	200mm	1.5m	0.9 - 1.3m	600mm
Ground Covers & Grasses							
DRs	5167	Kidney Weed	Dichondra repens	150mm	0.0 - 0.3m	0.9 - 1.2m	500mm
DRsf	229	silver falls	dichondra repens 'silver falls'	150mm	0.0 - 0.3m	0.9 - 1.2m	300mm
HM	2396	False Sarsaparilla	Hardenbergia "Mini Haha"	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
HSs	910	Golden Guinea Flower, Snake Vine	Hibbertia scandens	150mm	0.5 - 3m	1 - 5m	500mm
HV	2360	False Sarsaparilla	Hardenbergia violacea	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
SHp	1331	Purple Fusion	Scaevola Humilis 'Purple Fusion'	150mm	0.2m	1.5m	500mm
Agv	1003	Kangaroo Paw 'Gold Velvet'	Anigozanthos 'Gold Velvet'	150mm	0.5m	0.4m	300mm
DC	1765	Paroo Lily, Blue Flax-lily	Dianella caerulea	150mm	0.5 - 1m	0.5 - 2m	300mm
DCb	3535	Paroo Lily, Blue Flax-lily	Dianella caerulea 'Breeze'	150mm	0.6 - 0.7m	0.6 - 0.7m	300mm
DCj	15808	Paroo Lily, Blue Flax-lily	Dianella caerulea Little Jess	150mm	0.4m	0.4m	300mm
LHx	8360	Green matrush	Lomandra hystrix 'Tropic Cascade'	150mm	0.6m	0.6m	300mm
LM	5383	Giant Lily Turf	Liriope muscari 'Evergreen Giant'	150mm	0.6m	0.6m	300mm
LMi	2675	Giant Lily Turf	Liriope muscari 'Isabella'	150mm	0.15 - 0.2m	0.2 - 0.3m	200mm
LT	10828	Spiny-headed mat rush	Lomandra longifolia 'Tanika'	150mm	0.45 - 0.6m	0.6 - 0.9m	300mm
MS	6541	Weeping Grass, Meadow Rice Grass	Microlaena stipoides	150mm	0.6 - 0.75m	0.1 - 0.3m	300mm
Tt	2300	Kangaroo Grass	Themeda australis/triandra	150mm	0.9 - 1m	0.8 - 0.1m	300mm
LP	1504	European honeysuckle	Lonicera periclymenum	150mm	4 - 8m	1.5 - 2.5m	500mm
MPy	2099	Carpet Spreading Myoporum	Myoporum parvifolium 'Yareena'	150mm	0.1m	1m	500mm
TJ	1279	Star Jasmine	Trachelospermum jasminoides	150mm	0.3 - 0.6m	1 - 4m	500mm
TV	100	Ornamental Grape	Vitis vinifera	200mm	1- 3m	1 - 3m	1500mm
WM	361	Mundi	Westringia fruticosa 'Mundi'	150mm	0.45 - 0.6m	0.9 - 1.2m	500mm
WSa	16	White Chinese Wisteria	Wisteria sinensis 'Alba'	150mm	5 - 10m	6 - 10m	as shown

ISSUE	AMENDMENT	DRAWN	DATE
6	Reissue For DA	ES	16.10.24
5	Reissue For DA	ES	23.08.24
4	For DA	ES	10.01.23
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2	Preliminary	ES	17.12.21
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	DESIGNED:	DATE:	APPROVED:
	ES	OCT	AH
DRAWN:	ES	OCT	AH
CHECKED:	AH	OCT	AH

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PREPARED FOR:

PETER MORAN

PREPARED BY:

ep environmental partnership
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Ph: (02) 9555 1033 Fax: (02) 98185292
Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:

STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE

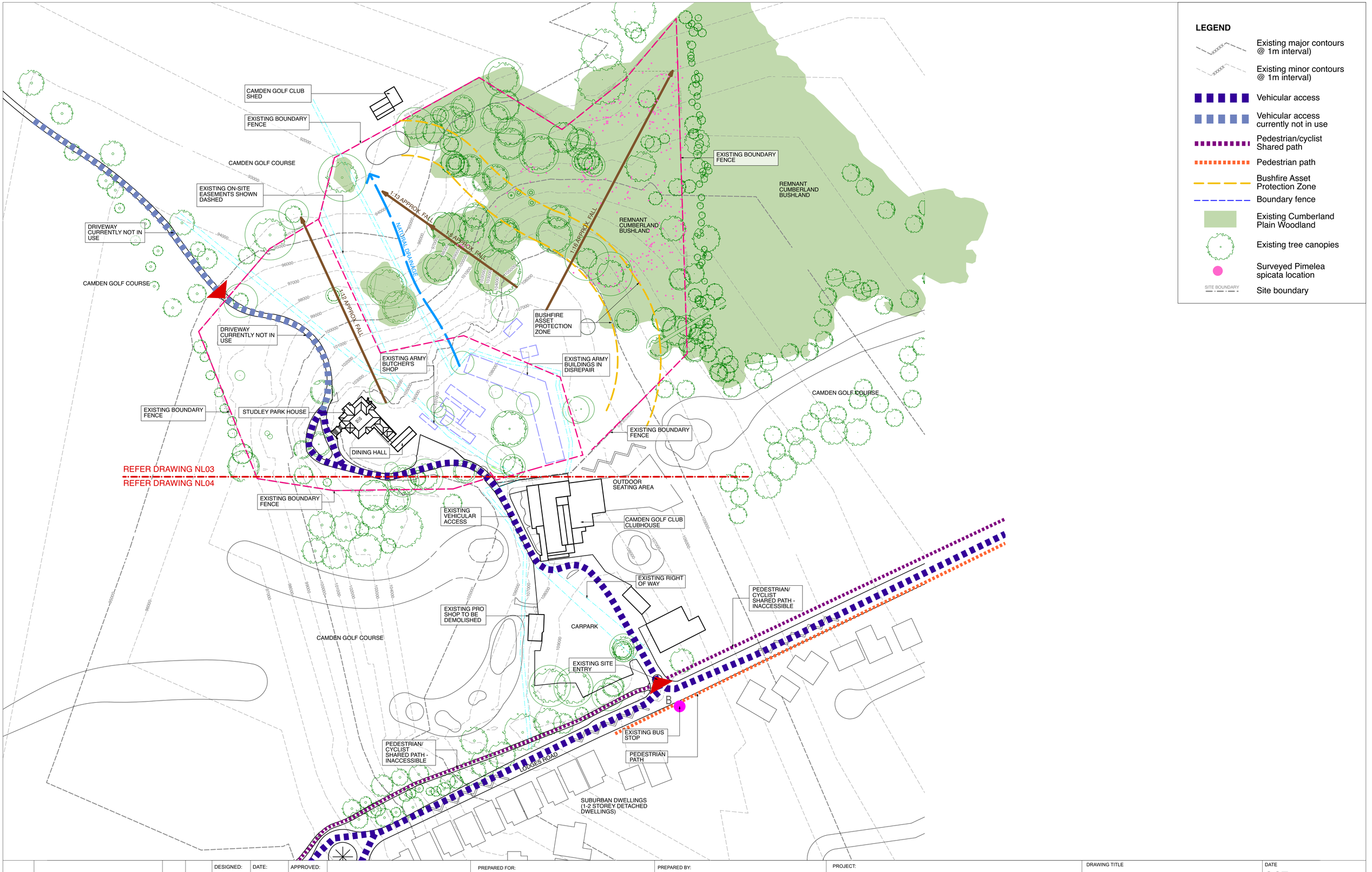
Legend & Planting Schedule

DATE: **OCT**

SCALE:

ISSUE: 6

DRAWING NO.: 3553.NL01



LEGEND

- Existing major contours @ 1m interval)
- Existing minor contours @ 1m interval)
- Vehicular access
- Vehicular access currently not in use
- Pedestrian/cyclist Shared path
- Pedestrian path
- Bushfire Asset Protection Zone
- Boundary fence
- Existing Cumberland Plain Woodland
- Existing tree canopies
- Surveyed Pimelea spicata location
- SITE BOUNDARY — Site boundary

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52 LODGES ROAD, NARELLAN NSW
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DRAWING TITLE

Site Analysis - Overall

0 10 20 30 M

N

DATE
OCT

SCALE
1:1000 @A1
1:2000 @A3

ISSUE
6

DRAWING NO.
3553.NL02

CAMDEN GOLF CLUB SHED

EXISTING BOUNDARY FENCE

CAMDEN GOLF COURSE

EXISTING ON-SITE EASEMENTS SHOWN DASHED

DRIVEWAY CURRENTLY NOT IN USE

CAMDEN GOLF COURSE

INSERT 1

REFER INSERT 1 THIS SHEET

REMNANT CUMBERLAND BUSHLAND

1:13 APPROX. FALL

1:6 APPROX. FALL

1:16 APPROX. FALL

1:12 APPROX. FALL

NATURAL DRAINAGE

BUSHFIRE ASSET PROTECTION ZONE

DRIVEWAY CURRENTLY NOT IN USE

EXISTING ARMY BUTCHER'S SHOP

EXISTING ARMY BUILDINGS IN DISREPAIR

EXISTING BOUNDARY FENCE

STUDLEY PARK HOUSE

DINING HALL

EXISTING BOUNDARY FENCE

OUTDOOR SEATING AREA

SITE BOUNDARY

92000 93000 94000 95000 96000 97000 98000 99000 100000 101000 102000 103000 104000 105000 106000 107000 108000

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AUSTRALIA 2567

DRAWING TITLE

Site Analysis - Sheet 1

DATE

OCT

SCALE
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ISSUE
6

DRAWING NO.
3553.NL03

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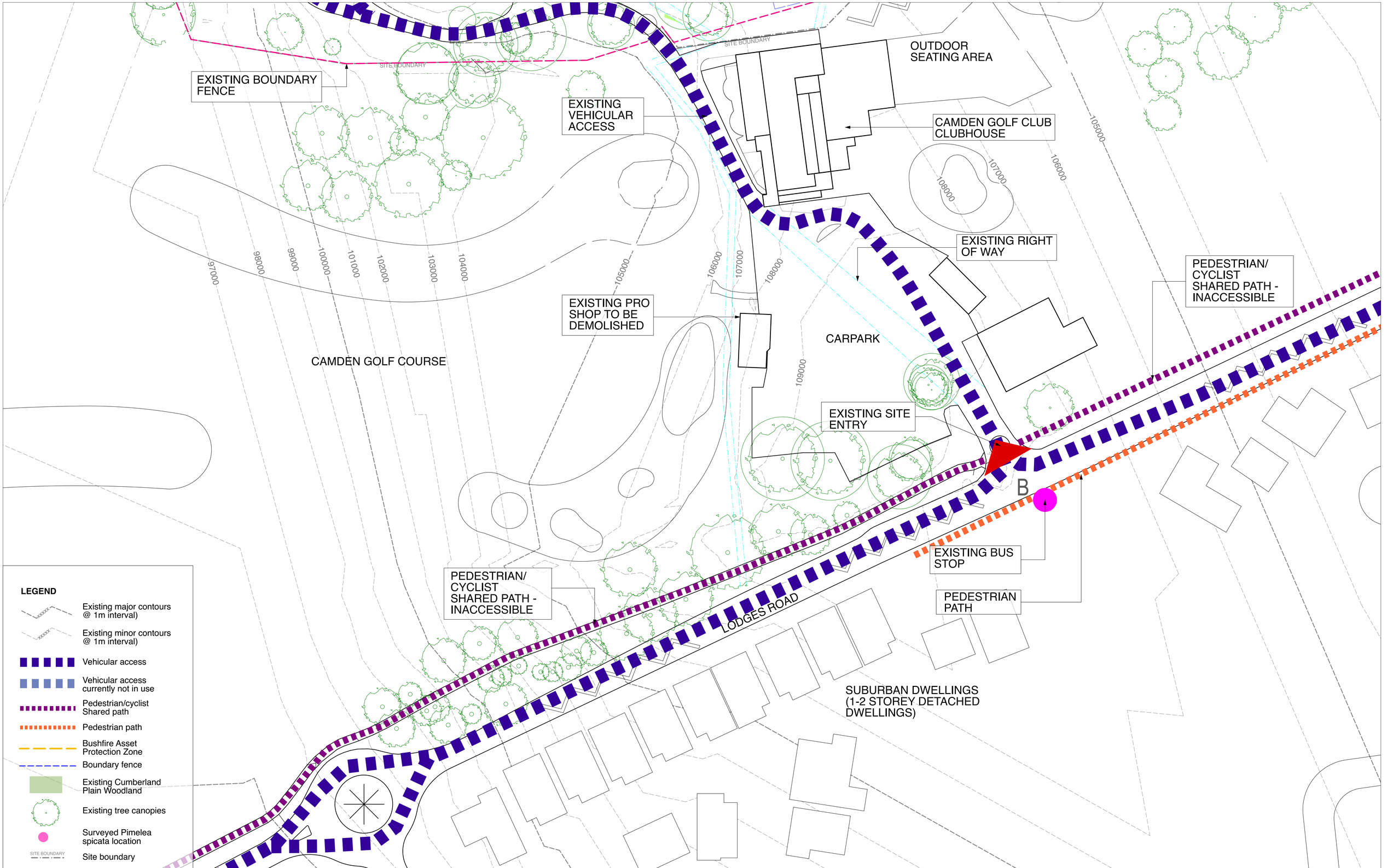

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DRAWING TITLE

Site Analysis - Sheet 2

0 5 10 15 20 M

N

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SCALE
1:500 @A1
1:1000 @A3

ISSUE
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DRAWING NO.
3553.NL04



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52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE

Landscape General Arrangement Plan - Overall

0 10 20 30 M

N

DATE
OCT

SCALE
1:1000 @A1
1:2000 @A3

ISSUE
6

DRAWING NO.
3553.MP00

GENERAL ARRANGEMENT

- SP — Sandstone pavement to building entry and courtyards
- BW — Mini mesh boardwalk structure to Managed ecological zone
- CP — Concrete pavement (pedestrian footpath) - Light exposed aggregate finish
- CV — Concrete pavement to driveway of buildings (vehicular) - Broom finish
- CS1 — CCS concrete pavement type 1 to central shared zone - Light exposed aggregate finish
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- APS — Asphalt pavement to shared zone adjoining hotel and main house.
- APM — Asphalt milling and resurface to existing road
- G — Stablised gravel pavement to Village Green
- RS — Rubber Softfall to Village Green
- Pebble mulch
- Concrete stepping slab/concrete strip to connect Communal space to buildings
- Steps
- CE — Flush honed concrere strip (300mm width)

- WC1 — Off form honed concrete retaining wall (300mm width)
- WC2 — Off form concrete retaining wall (200mm width)
- Recycled sandstock brick sitting wall (500mm width)
- WS — Gang sawn sandstone wall (500mm width)
- RK — Raised concrete kerb (150mm width)
- KG — Kerb and gutter
- Riprap wall
- SE — Steel edge
- HR — Handrail - vertical infill panels where required to meet BCA
- BL — Balustrade - vertical infill panels where required to meet BCA
- SF1 — Chainlink fence 1.6m high
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- BFe — Existing steel palisade fence
- BF1 — New steel palisade fence to match existing
- BF2 — 1.8m high lap and capped timber fence
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- BS — Backed seat
- S — Bench seat
- PT — Picnic table set

- BBQ
- Picnic shelter
- Bike racks
- T — Turf on grade
- TP — Turf on podium
- TC — Reinforced turf
- GB — Garden bed on grade
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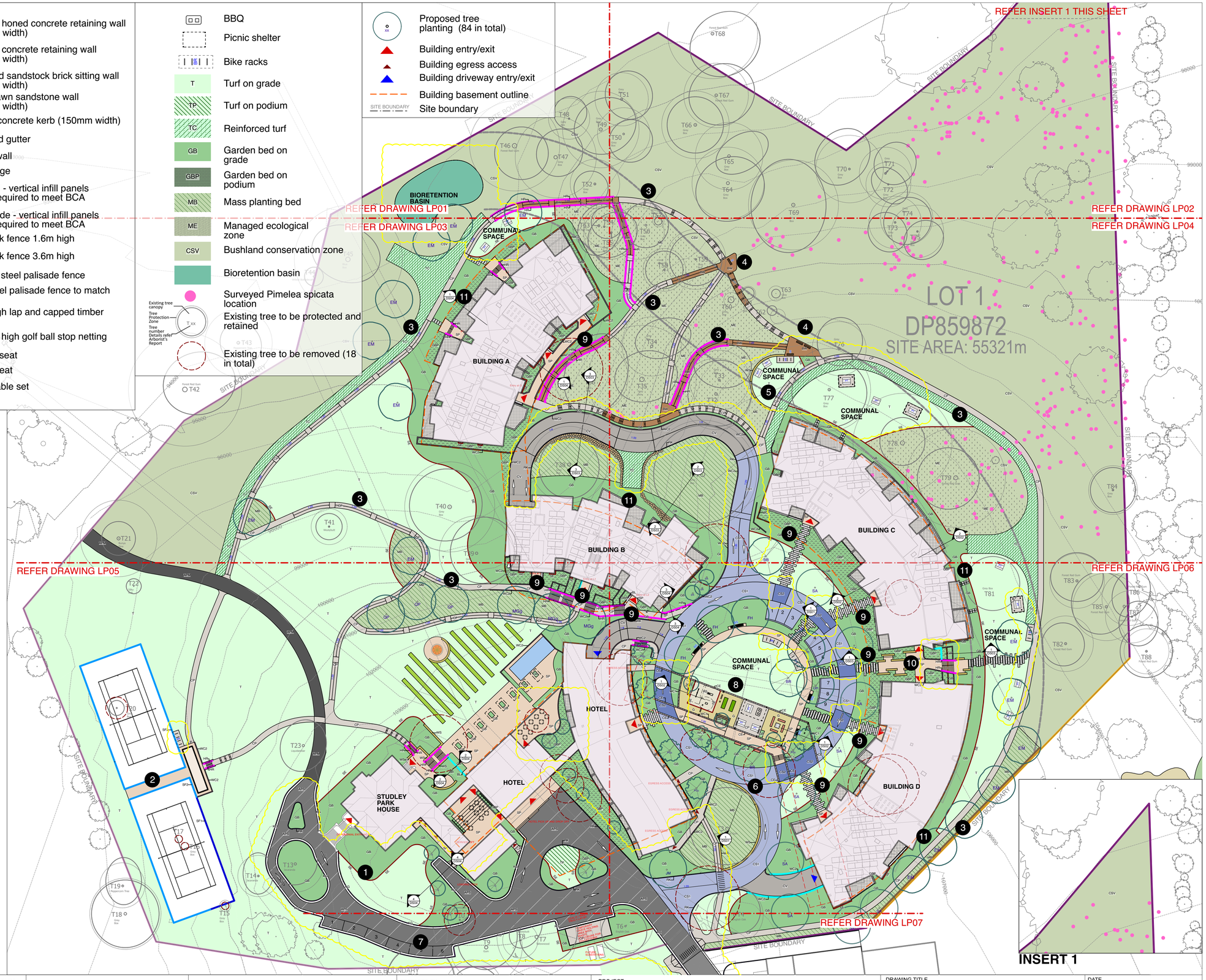
- ME — Managed ecological zone
- CSV — Bushland conservation zone
- Bioretention basin
- Surveyed Pimelea spicata location
- Existing tree to be protected and retained (Existing tree canopy; Tree Protection Zone; Tree number Details refer Arborist's Report)
- Existing tree to be removed (18 in total)

- Proposed tree planting (84 in total)
- Building entry/exit
- Building egress access
- Building driveway entry/exit
- Building basement outline
- SITE BOUNDARY — Site boundary

1. **Studley House and Hotel Landscape**
   - Refer LP05 & PP05 for details
   - Provide platfrom garden between Studley Park House and hotel
   - Provide overhead trellis to hotel terrace and courtyard hotel dining
   - Provide vine yard and fire pit on west of hotel
2. **Tennis Courts**
   - Reinstate original tennis court use to past location
   - Concrete path link to Hotel
   - Tennis shelter (Potential for interpretation of Army Butcher shop structure as tennis pavllion)
3. **Recreational path**
   - Recreational path defines Asset Protection zone to buildings
   - 1.5 metre wide concrete path
   - Provide universal access and steps options to cater for different requirements and loop alternatives
   - Provide boardwalk structure where is required to minimise impact to existing trees and pimelea spicata. And provide safety/ rest points
4. **Lookout**
   - Provide lookouts at high point / junction to overlook the scenic views
5. **Turfed platform**
   - Provide turfed platform for gathering, sitting and picniking
6. **Pedestrian / Vehicular Shared zone (Hill Top Village Green)**
   - One way traffic to residential/hotel building foyer entries
   - 90˚ degree parking (No.9)
7. **Pedestrian / Vehicular Shared zone (Hotel / Studley Park House)**
   - Two way traffic asphalt shared zone
   - Parallel parking (No.6)
8. **Hilltop Village Green**
   - Shade tree and nodal tree plantings
   - Lawn areas
   - Interpretation of Army Student Quarters Structure:
     - Ghost structure as shelter interpreting roof line
     - Ground plane integrated to the landscape - building footprint interpreted in ground
   - Fitness node
   - Community garden
   - Picnic table set and BBQ
   - Back seats, bench seats and decking
9. **Residential building entries**
   - Sandstone paved building entry foyers
   - Staggered concrete footpath to building entries
   - Garden areas adjoining building
10. **Garden Walk (between Building C & D)**
    - Linkage between recreational path and Village Green with stairs
    - Vegetated terraces with small trees
    - Sitting walls intergrated with garden bed
11. **Residential courtyards**
    - Tiled courtyard areas to ground level residences
    - Buffer garden adjoining courtyards



INSERT 1

ISSUE	AMENDMENT	DRAWN	DATE
6	Reissue For DA	ES	16.10.24
5	Reissue For DA	ES	23.08.24
4	For DA	ES	10.01.23
3	For Coordination	ES	04.03.22
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PETER MORAN

PREPARED BY:
ep environmental partnership
Level 3 suite 3.01 22-36 Mountain street Ultimo 2007
Ph: (02) 9555 1033 Fax: (02) 98185292
Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:
STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE
Landscape General Arrangement Plan - Sheet 1

0 5 10 15 20 M

DATE
OCT

SCALE
1:500 @A1
1:1000 @A3

ISSUE
6

DRAWING NO.
3553.MP01

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REFER DRAWING LP05
REFER DRAWING LP06
REFER DRAWING LP07
REFER DRAWING LP08
REFER DRAWING LP09

CAMDEN GOLF COURSE
SITE BOUNDARY
ENTRY
EXISTING GOLF CLUB CARPARK
RELOCATED GOLF PRO-SHOP
EXIT
EXISTI SHEDS

12. Entry Driveway
- New asphalt paved roadway
- New entry and exit for Clubhouse carpark

13. Pedestrian Link To The Site
- Provide 1.5m width universal concrete link path from the existing footpath to the site

14. Green Avenue
- Forest Red Gum Avenue tree planting to north side of road

15. Golf Course Adjustments
- Minor adjustments to course elements to accommodate entry road- subject to future works by the Golf Club

a. Green modified
b. Putting green modified
c. New Tee

16. Relocated Golf Club Pro-shop

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PROJECT:
STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE
Landscape General Arrangement Plan - Sheet 2

DATE
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0 5 10 15 20 M

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3553.MP02

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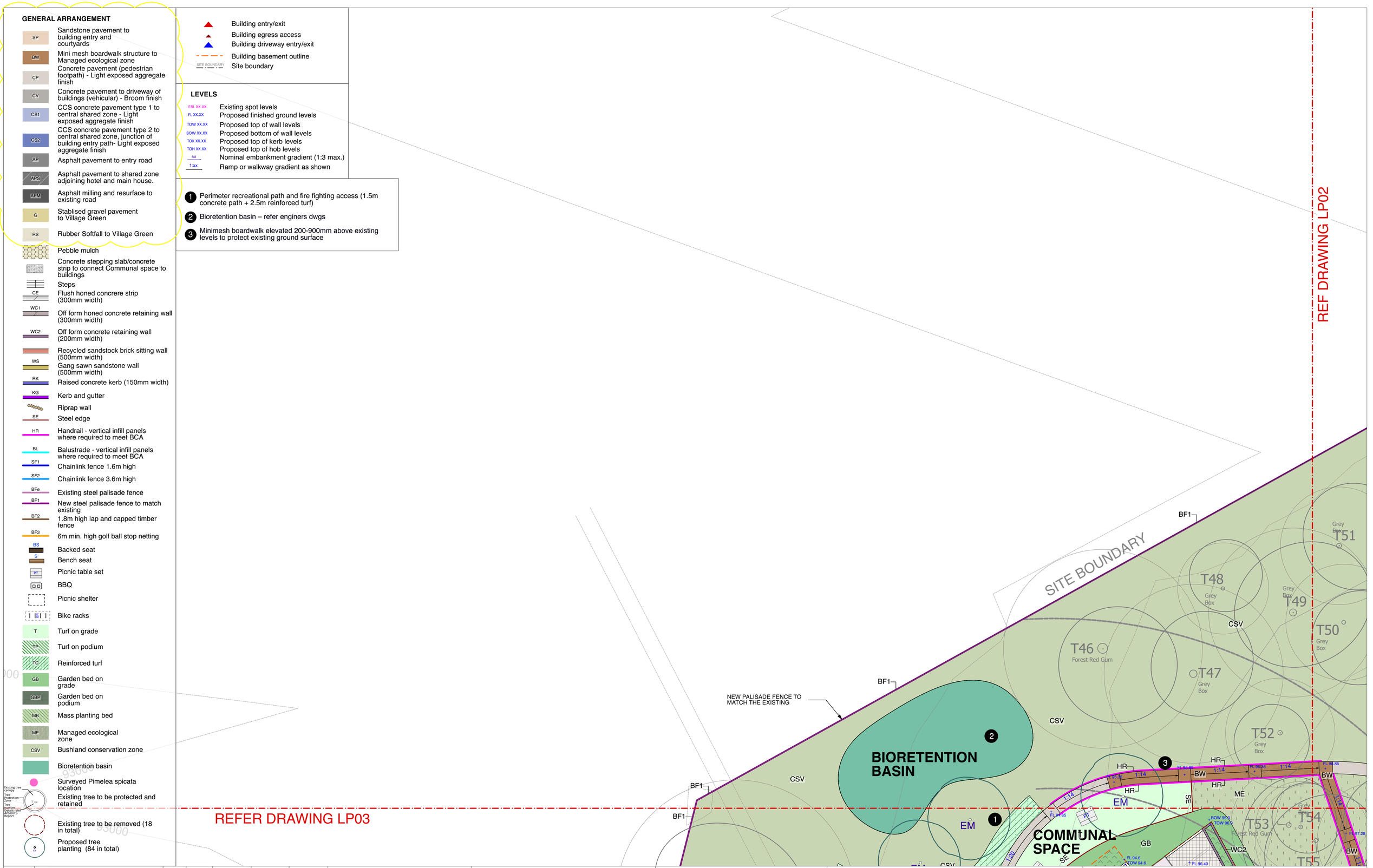
1. Perimeter recreational path and fire fighting access (1.5m concrete path + 2.5m reinforced turf)
2. Bioretention basin – refer enginers dwgs
3. Minimesh boardwalk elevated 200-900mm above existing levels to protect existing ground surface



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Landscape General Arrangement Detailed Plan - Area 1

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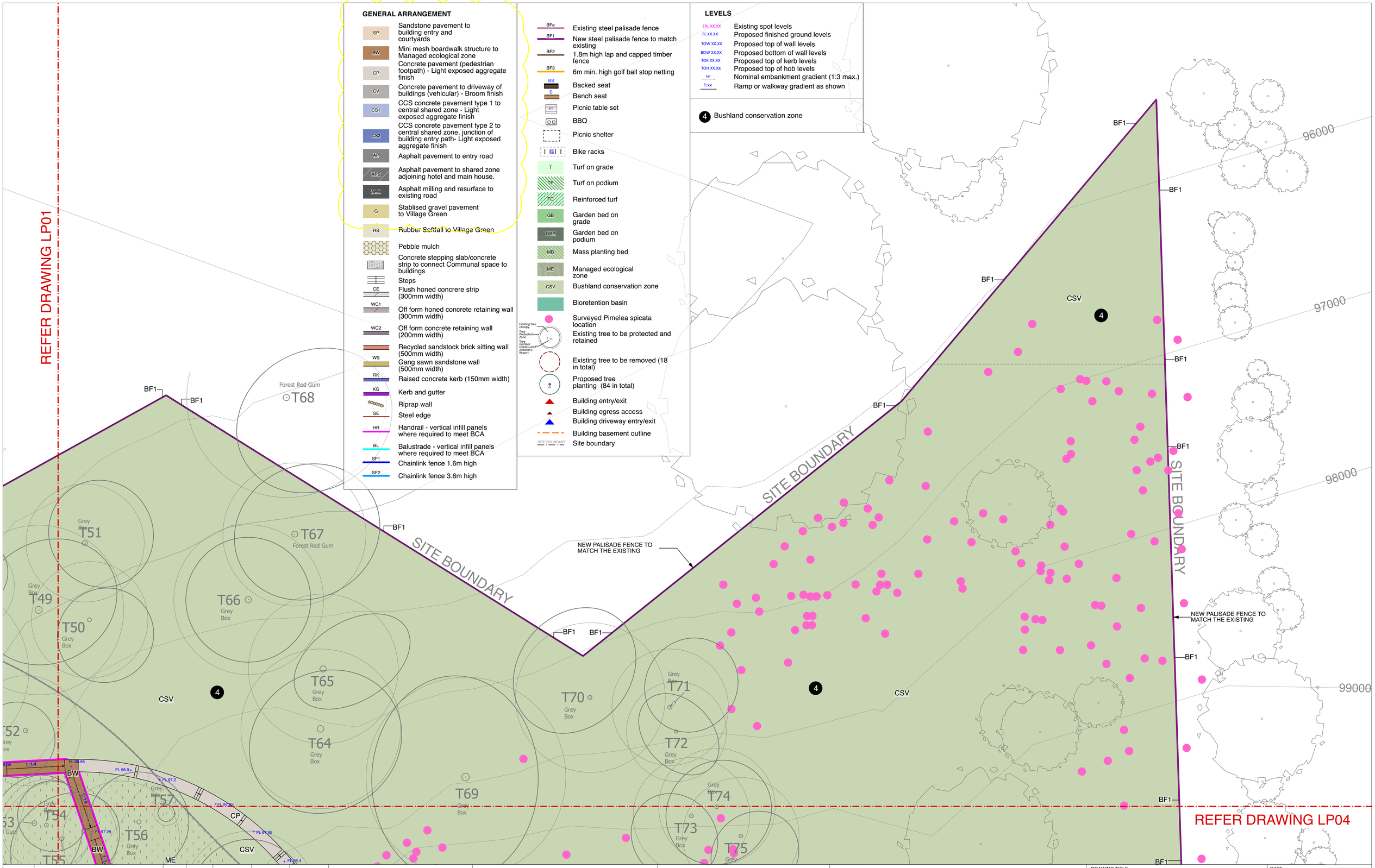
3553.LP01



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Landscape General Arrangement Detailed Plan - Area 2

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SCALE 1:200 @A1 1:400 @A3

ISSUE 6

DRAWING NO. 3553.LP02

0 5 10 15 M

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- SITE BOUNDARY — Site boundary

5. Bushland conservation zone
6. Perimeter recreational path and fire fighting access (1.5m concrete path + 2.5m reinforced turf)
7. Garden bed on podium
8. Minimesh boardwalk elevated 200-900mm above existing levels to protect existing ground surface
9. Paved residential courtyard with low wall and adjoining garden
10. Managed ecological zone to protect existing trees and Pimelia stands (refer ecological report)
11. Carefully installed groundcover planting bed to existing ground within TPZ of existing protected tree

BIORETENTION BASIN
REFER DRAWING LP01
COMMUNAL SPACE
BUILDING A
BUILDING B
REFER DRAWING LP04
REFER DRAWING LP05
SITE BOUNDARY
FIRE TRUCK TURNING AREA
NEW PALISADE FENCE TO MATCH THE EXISTING
EXISTING PALISADE FENCE TO BE RETAINED
PROPOSED FIRE TRAIL - 2.5M REINFORCED TURF + 1.5M CONCRETE PATH
EXISTING PALISADE FENCE TO BE RETAINED
1.3m max. wall height
1.6m max. wall height
0.5m max. wall height
0.9m max. wall height
1.8m max. wall height
2.7m max. wall height
PROVIDE OFF FORM CONCRETE RETAINING WALL (200MM WIDTH) WITH BARRIER
PROVIDE PODIUM SET DOWN OF 300MM (REFER STRUCTURAL ENGINEERS DRAWINGS) AND MOUND GARDEN PROFILE TO THE REQUIRED DEPTH FOR PLANTS BY ADG
Entry at G
Entry at L1
T36 Grey Box
T38 Grey Box
T39 Grey Box
T40 Grey Box
T41 Woolybutt
T42 Forest Red Gum
T43 Peppercorn Tree
T44 Willow Bottlebrush
T45 Blue Box
T53 Forest Red Gum
T54 Grey Box
T55 Grey Box
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DRAWING NO.
3553.LP03

0 5 10 15 M

N

REFER DRAWING LP02

REFER DRAWING LP03

REFER DRAWING LP06

LOT 1
DP859872
SITE AREA: 55321m

COMMUNAL SPACE

BUILDING C

BUILDING B

PROVIDE OFF FORM CONCRETE RETAINING WALL (200MM WIDTH) WITH BARRIER

PROVIDE PODIUM SET DOWN OF 300MM (REFER STRUCTURAL ENGINEERS DRAWINGS) AND MOUND GARDEN PROFILE TO THE REQUIRED DEPTH FOR PLANTS BY ADG

PROVIDE PODIUM SET DOWN OF 300MM (REFER STRUCTURAL ENGINEERS DRAWINGS) AND MOUND GARDEN PROFILE TO THE REQUIRED DEPTH FOR PLANTS BY ADG

PROPOSED FIRE TRAIL - 2.5M REINFORCED TURF + 1.5M CONCRETE PATH

NEW PALISADE FENCE TO MATCH THE EXISTING

NEW PALISADE FENCE TO MATCH THE EXISTING

BOLLARDS @ 1.5M CTS

FIRE TRUCK TURNING AREA

0.5m max. wall height

0.35m max. wall height

0.75m max. wall height

2.3m max. wall height

0.6m max. wall height

0.5m max. wall height

0.7m max. wall height

0.35m max. wall height

12 Bushland conservation zone
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14 Garden bed on podium
15 Minimesh boardwalk elevated 200-900mm above existing levels to protect existing ground surface
16 Paved residential courtyard with low wall and adjoining garden
17 Managed ecological zone to protect existing trees and Pimelia stands (refer ecological report)
18 Accessible path to resemble concrete stepping slabs
19 Turf terrace formed behind low stone wall
20 Minimesh boardwalk landings with seating overlooking bush
21 Carefully installed groundcover planting bed to existing ground within TPZ of existing protected tree

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BF3 6m min. high golf ball stop netting
BS Backed seat
S Bench seat
PT Picnic table set
BBQ
Picnic shelter
Bike racks
T Turf on grade
TP Turf on podium
TC Reinforced turf
GB Garden bed on grade
GBP Garden bed on podium
MB Mass planting bed
ME Managed ecological zone
CSV Bushland conservation zone
Bioretention basin
Surveyed Pimelea spicata location
Existing tree to be protected and retained
Existing tree to be removed (18 in total)
Proposed tree planting (84 in total)

SITE BOUNDARY

ISSUE	AMENDMENT	DRAWN	DATE
6	Reissue For DA	ES	16.10.24
5	Reissue For DA	ES	23.08.24
4	For DA	ES	10.01.23
3	For Coordination	ES	04.03.22
2	Preliminary	ES	17.12.21
1	Preliminary	ES	17.11.21

DESIGNED:	DATE:	APPROVED:
ES	OCT	AH
DRAWN:	DATE:	APPROVED:
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CHECKED:	DATE:	APPROVED:
AH	OCT	AH

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PREPARED FOR:
PETER MORAN

PREPARED BY:
ep environmental partnership
Level 3 suite 3.01 22-36 Mountain street Ultimo 2007
Ph: (02) 9555 1033 Fax: (02) 98185292
Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:
STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE
Landscape General Arrangement Detailed Plan - Area 4

DATE
OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

DRAWING NO.
3553.LP04

0 5 10 15 M

GENERAL ARRANGEMENT

- SP — Sandstone pavement to building entry and courtyards
- BW — Mini mesh boardwalk structure to Managed ecological zone
- CP — Concrete pavement (pedestrian footpath) - Light exposed aggregate finish
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- G — Stablised gravel pavement to Village Green
- RS — Rubber Softfall to Village Green
- Pebble mulch
- Concrete stepping slab/concrete strip to connect Communal space to buildings
- Steps
- CE — Flush honed concrere strip (300mm width)
- WC1 — Off form honed concrete retaining wall (300mm width)
- WC2 — Off form concrete retaining wall (200mm width)
- Recycled sandstock brick sitting wall (500mm width)
- WS — Gang sawn sandstone wall (500mm width)
- RK — Raised concrete kerb (150mm width)
- KG — Kerb and gutter
- Riprap wall
- SE — Steel edge
- HR — Handrail - vertical infill panels where required to meet BCA
- BL — Balustrade - vertical infill panels where required to meet BCA
- SF1 — Chainlink fence 1.6m high
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- Building entry/exit
- Building egress access
- Building driveway entry/exit
- Building basement outline
- Site boundary

LEVELS

- ERL XX.XX — Existing spot levels
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22. Stone paved terrace with pergola structure over with trailing plantings
23. Garden bed on podium
24. Pool refer architects dwgs
25. Orchard or Vineyard plantings to imitate former site agriculture
26. Low groundcover curtilage to Studley House to imitate former landscape planting
27. Tennis pavilion integrating elements and form of former Butchers Shop
28. Stone fire pit with low stone sitting wall

REFER DRAWING LP03

BUILDING B

HOTEL

STUDLEY PARK HOUSE

CEREMONIAL ENTRANCE

SERVICE LIFT

LOADING DOCK

HOTEL PICK UP AND DROP OFF

EGRESS ACCESS

PROVIDE OFF FORM CONCRETE PAVEMENT

PROVIDE PODIUM SET DOWN OF 300MM (REFER STRUCTURAL ENGINEERS DRAWINGS) AND MOUND GARDEN PROFILE TO THE REQUIRED DEPTH FOR PLANTS BY ADG

PROVIDE PODIUM SET DOWN OF 300MM (REFER STRUCTURAL ENGINEERS DRAWINGS) AND MOUND GARDEN PROFILE TO THE REQUIRED DEPTH FOR PLANTS BY ADG

EXISTING PALISADE FENCE TO BE RETAINED

COACH WASTE TRUCK LAY-BY

TEMPORARY WASTE HOLDING AREA WITH

REFER DRAWING LP06

REFER DRAWING LP07

T20 Grey Box
T23 Liquidambar
T17 Grey Box
T16 Grey Box
T13 Jacaranda
T14 Jacaranda
T19 Peppercorn Tree
T18 Grey Box
T15 Grey Box
T10 Tormosa Sweet Gum
T6 English Oak
T39 Grey Box

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ABN 53 088 175 437

PROJECT:
STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE
Landscape General Arrangement Detailed Plan - Area 5

DATE
OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

DRAWING NO.
3553.LP05

0 5 10 15 M

N

BUILDING B

HOTEL

COMMUNAL SPACE

COMMUNAL SPACE

BUILDING D

REFER DRAWING LP04

REFER DRAWING LP05

REFER DRAWING LP07

FIRE TRUCK TURNING AREA

PROPOSED FIRE TRAIL
- 2.5M REINFORCED TURF + 1.5M CONCRETE PATH

NEW PALISADE FENCE TO MATCH THE EXISTING

PROVIDE PODIUM SET DOWN OF 300MM (REFER STRUCTURAL ENGINEERS DRAWINGS) AND MOUND GARDEN PROFILE TO THE REQUIRED DEPTH FOR PLANTS BY ADG

PROVIDE OFF FORM CONCRETE PAVEMENT

6M MIN. HIGH GOLF BALL STOP NETTING

1.8M HIGH LAP AND CAPPED TIMBER FENCE

SITE BOUNDARY

EGRESS ACCESS

Grey Box T81

Forest Red Gum T86

T85 Forest Red Gum

T87 Forest Red Gum

T82 Forest Red Gum

T88 Forest Red Gum

T3 Lemon-scented Gum

T4 English Oak

T6 English Oak

GENERAL ARRANGEMENT

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- Bike racks
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29 Carefully installed groundcover planting bed to existing ground within TPZ of existing protected tree

30 Perimeter recreational path and fire fighting access (1.5m concrete path + 2.5m reinforced turf)

31 Garden bed on podium

32 Paved residential courtyard with low wall and adjoining garden

33 Accessible path to resemble concrete stepping slabs

34 Shared pedestrian / vehicle access zone to internal loop road

35 Hilltop green – grassed area with perimeter shade tree and garden planting

36 Resident facilities including BBQ, seating, small play elements, small fitness elements in design interpreting the former Chevron shaped barracks

37 Overhead frame imitating roof form of barracks structure

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Level 3 suite 3.01 22-36 Mountain street Ultimo 2007
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Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:

STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE

Landscape General Arrangement Detailed Plan - Area 6

DATE

OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

DRAWING NO.
3553.LP06

0 5 10 15 M

REFER DRAWING LP05

REFER DRAWING LP06

REFER DRAWING LP08

SITE BOUNDARY

NEW PALISADE FENCE TO MATCH THE EXISTING

EXISTING PALISADE FENCE TO BE RETAINED

FUTURE SUBSTATIONS

COACH / WASTE TRUCK LAYOVER

TEMPORARY WASTE HOLDING AREA WITH WASTE CLOSURE FOR COLLECTIONS

ENTRY / EXIT

ENTRY

EXISTING PRO SHOP TO BE DEMOLISHED

CAMDEN GOLF COURSE

EXISTING CLUB CA

T10 Hormosira Sweet Gum

T9 Gum

T8 Woolybutt

T7 Tallowwood

T6 English Oak

T4 English Oak

T12 Tallowwood (dead)

T11 Tallowwood

38 Pedestrian pathway to public road frontage

39 Native avenue tree planting

40 Re-aligned golf holes – refer architects dwgs

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- Surveyed Pimelea spicata location
- Existing tree canopy; Tree Protection Zone; Tree number; Details refer Arborist's Report — Existing tree to be protected and retained
- Existing tree to be removed (18 in total)
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Level 3 suite 3.01 22-36 Mountain street Ultimo 2007
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ABN 53 088 175 437

PROJECT:

STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE

Landscape General Arrangement Detailed Plan - Area 7

DATE

OCT

SCALE 1:200 @A1 1:400 @A3

ISSUE 6

DRAWING NO. 3553.LP07

0 5 10 15 M

N



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41 Pedestrian pathway to public road frontage/ bus stop
42 Native avenue tree planting
43 Re-aligned golf holes – refer architects dwgs
44 New golf hole – refer architects dwgs

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ABN 53 088 175 437

PROJECT:

STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE

Landscape General Arrangement Detailed Plan - Area 8

DATE

OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

DRAWING NO.
3553.LP08

0 5 10 15 M

N

REFER DRAWING LP08

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45 Native avenue tree planting

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PROJECT:
STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW AUSTRALIA 2567

DRAWING TITLE
Landscape General Arrangement Detailed Plan - Area 9

DATE
OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

0 5 10 15 M

N

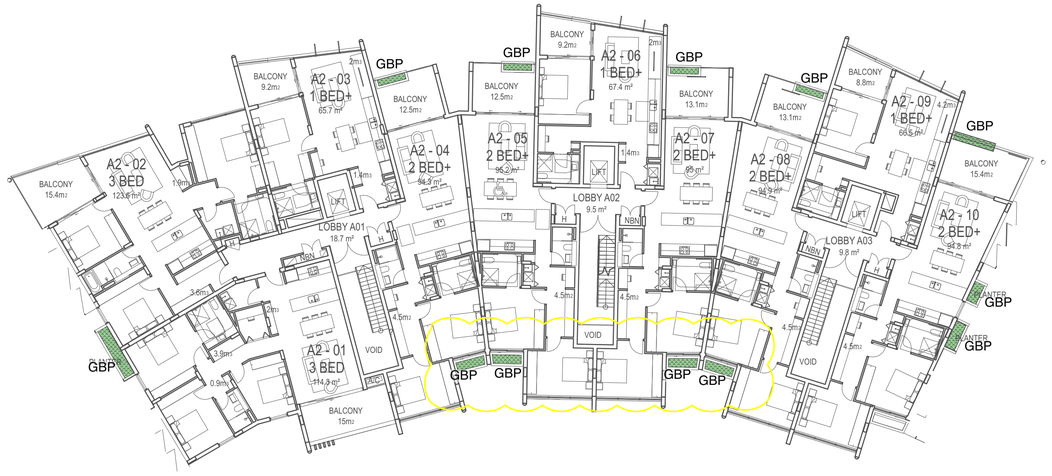
DRAWING NO.
3553.LP09

LEGEND

GBP — Garden bed to building facade planter box



BUILDING A - LEVEL 1



BUILDING A - LEVEL 2

ISSUE	AMENDMENT	DRAWN	DATE
6	Reissue For DA	ES	16.10.24
5	Reissue For DA	ES	23.08.24
4	For DA	ES	10.01.23
3	For Coordination	ES	04.03.22
2	Preliminary	ES	17.12.21
1	Preliminary	ES	17.11.21

	DESIGNED:	DATE:	APPROVED:
	ES	OCT	AH
DRAWN:	ES	OCT	AH
CHECKED:	AH	OCT	AH

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PREPARED FOR:

PETER MORAN

PREPARED BY:

ep environmental partnership
Level 3 suite 3.01 22-36 Mountain street Ultimo 2007
Ph: (02) 9555 1033 Fax: (02) 98185292
Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:

STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE

Landscape General Arrangement Detailed Plan - Building A Facade Planters

0 5 10 15 M

DATE
OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

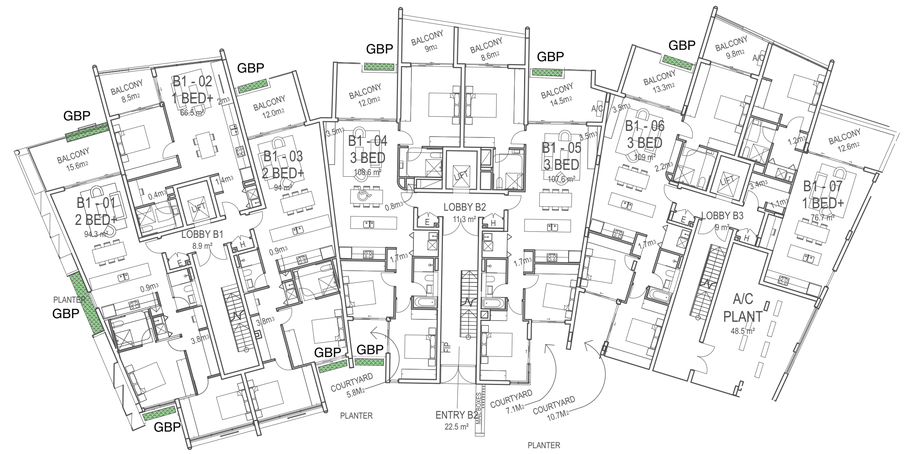
DRAWING NO.
3553.LP10

LEGEND

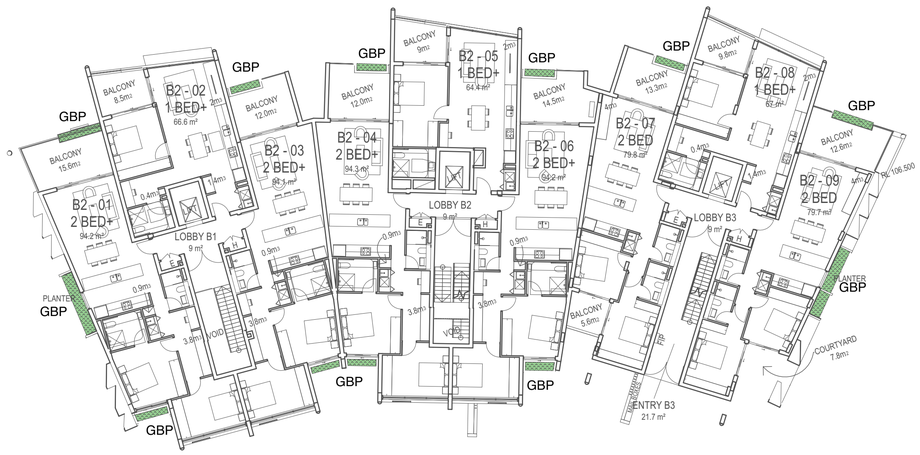
GBP — Garden bed to building facade planter box



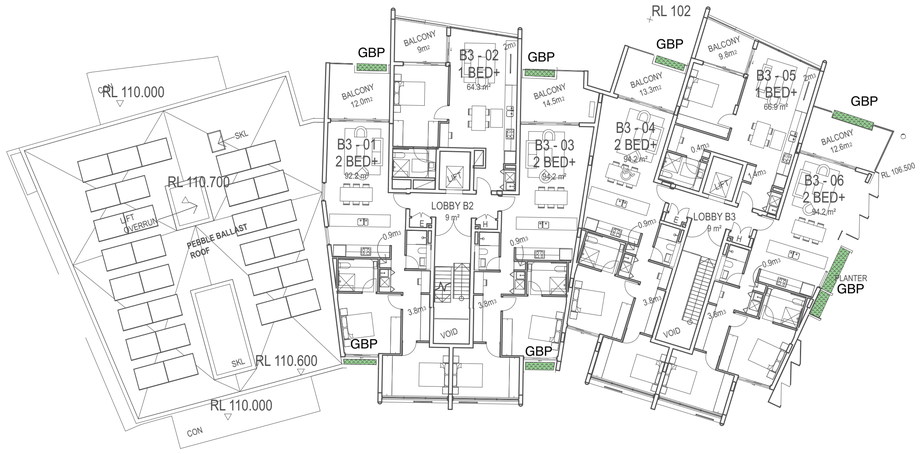
BUILDING B - GROUND FLOOR



BUILDING B - LEVEL 1



BUILDING B - LEVEL 2



BUILDING B - LEVEL 3

ISSUE	AMENDMENT	DRAWN	DATE
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4	For DA	ES	10.01.23
3	For Coordination	ES	04.03.22
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1	Preliminary	ES	17.11.21

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CHECKED: AH	DATE: OCT	APPROVED: AH

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PROJECT:

STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE

Landscape General Arrangement Detailed Plan - Building B Facade Planters

0 5 10 15 M

DATE
OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

DRAWING NO.
3553.LP11

LEGEND

GBP — Garden bed to building facade planter box



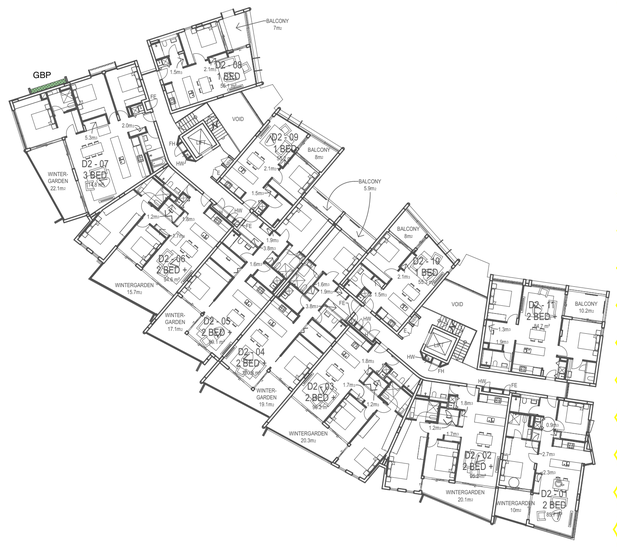


TYPICAL FACADE PLANTER BUILDING C & D (GROUND FLOOR)





TYPICAL FACADE PLANTER BUILDING C & D (LEVEL 1)





TYPICAL FACADE PLANTER BUILDING C & D (LEVEL 2)

ISSUE	AMENDMENT	DRAWN	DATE
6	Reissue For DA	ES	16.10.24
5	Reissue For DA	ES	23.08.24
4	For DA	ES	10.01.23
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1	Preliminary	ES	17.11.21

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AUSTRALIA 2567

DRAWING TITLE

Landscape General Arrangement Detailed Plan - Building C&D Facade Planters

0 5 10 15 M

N

DATE

OCT

SCALE
1:300 @A1
1:600 @A3

ISSUE
6

DRAWING NO.
3553.LP12



Public Communal Space Plant Schedule

ID	Qty	Common Name	Botanical Name	Size	Mature Height	Mature Spread	Native (N)
Trees							
BR	3	Illawarra Flame Tree	Brachychiton acerifolius	100Litre	15m	10m	as shown
EM	15	Grey Box	Eucalyptus moluccana	100Litre	15 - 20m	6 - 10m	as shown
ER	3	Blueberry Ash	Elaeocarpus reticulatus	100Litre	6 - 8m	4m	as shown
ET	23	Forest Red Gum	Eucalyptus tereticornis	100Litre	over 30m	6 - 12m	as shown
FH	3	Hill's Weeping Fig	Ficus Hillii	100Litre	10 - 15m	6 - 10m	as shown
JM	4	Jacaranda	Jacaranda mimosifolia	100Litre	10 - 15m	10 - 15m	as shown
LI	10	Crepe Myrtle	Lagerstroemia indica	100Litre	5 - 10m	3.5 - 6m	as shown
MG	3	Little Gem Southern Magnolia	Magnolia grandiflora 'Little Gem'	100Litre	4 - 6m	2.0 - 3.5m	as shown
MGg	3	Southern Magnolia	Magnolia grandiflora	100Litre	15m	12m	as shown
PCc	8	Ornamental Pear	Pyrus calleryana 'Chanticleer'	100Litre	11m	6m	as shown
QP	3	Pin Oak	Quercus palustris	100Litre	15m	10m	as shown
SP	9	Magenta Lillypilly	Syzygium paniculatum	100Litre	3 - 15m	2 - 10m	as shown
UPl	2	Golden Elm	Ulmus parvifolia 'Lutescens'	100Litre	10m	12m	as shown
Shrubs							
ACl	165	River Wattle	Acacia cognata 'Limelight'	200mm	0.5 - 1.0m	1.0 - 1.2m	600mm
AGa	26	Century Plant	Agave attenuata	200mm	0.75 - 0.9m	0.6 - 0.9m	as shown
AMs	776	Oyster Plant	Acanthus mollis	200mm	1m	1m	600mm
AN	111	Birds Nest Fern	Asplenium Nidus	200mm	0.6 - 1m	1.5m	600mm
BAr	7	Swamp Banksia, Large-leaf Banksia	Banksia robur	200mm	0.9 - 1.5m	1.2 - 2.0m	1000mm
BS	3	Hairpin Banksia	Banksia spinulosa	200mm	2m	2m	1000mm
CAa	60	White Correa	Correa alba	200mm	0.9 - 1.5m	0.9 - 1.2m	600mm
CPm	104	Swamp Lily, River Lily	Crinum pedunculatum	200mm	1 - 3m	1.5 - 3m	600mm
DE	75	Gymea Lily	Doryanthes excelsa	200mm	1.2 - 2m	1.2 - 2.0m	600mm
HFg	46	Native frangipani	Hymenosporum flavum 'Gold Nugget'	200mm	0.5 - 0.75m	0.5 - 0.75m	400mm
LHk	234	Katie Belles	Lomandra hystrix 'Katie Belles'	200mm	1.5 - 1.8m	1.2 - 1.5m	600mm
LN	262	Sweet Bay	Laurus nobilis	200mm	3 - 5m but regular trim required to ensure 1m high max.	2.0 - 3.5m	1000mm
VO	71	Dense Fence Viburnum	Viburnum odoratissmum 'Dense Fence'	200mm	2.5m	2 m	800mm
WB	12	Blue Gem	Westringia 'Blue Gem'	200mm	1.5m	0.9 - 1.3m	600mm
Ground Covers & Grasses							
DRs	5167	Kidney Weed	Dichondra repens	150mm	0.0 - 0.3m	0.9 - 1.2m	500mm
DRsf	229	silver falls	dichondra repens 'silver falls'	150mm	0.0 - 0.3m	0.9 - 1.2m	300mm
HM	2396	False Sarsaparilla	Hardenbergia "Mini Haha"	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
HSs	910	Golden Guinea Flower, Snake Vine	Hibbertia scandens	150mm	0.5 - 3m	1 - 5m	500mm
HV	2360	False Sarsaparilla	Hardenbergia violacea	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
SHp	1331	Purple Fusion	Scaevola Humilis 'Purple Fusion'	150mm	0.2m	1.5m	500mm
Agv	1003	Kangaroo Paw 'Gold Velvet'	Anigozanthos 'Gold Velvet'	150mm	0.5m	0.4m	300mm
DC	1765	Paroo Lily, Blue Flax-lily	Dianella caerulea	150mm	0.5 - 1m	0.5 - 2m	300mm
DCb	3535	Paroo Lily, Blue Flax-lily	Dianella caerulea 'Breeze'	150mm	0.6 - 0.7m	0.6 - 0.7m	300mm
DCj	15808	Paroo Lily, Blue Flax-lily	Dianella caerulea Little Jess	150mm	0.4m	0.4m	300mm
LHx	8360	Green matrush	Lomandra hystrix 'Tropic Cascade'	150mm	0.6m	0.6m	300mm
LM	5383	Giant Lily Turf	Liriope muscari 'Evergreen Giant'	150mm	0.6m	0.6m	300mm
LMi	2675	Giant Lily Turf	Liriope muscari 'Isabella'	150mm	0.15 - 0.2m	0.2 - 0.3m	200mm
LT	10828	Spiny-headed mat rush	Lomandra longifolia 'Tanika'	150mm	0.45 - 0.6m	0.6 - 0.9m	300mm
MS	6541	Weeping Grass, Meadow Rice Grass	Microlaena stipoides	150mm	0.6 - 0.75m	0.1 - 0.3m	300mm
Tt	2300	Kangaroo Grass	Themeda australis/triandra	150mm	0.9 - 1m	0.8 - 0.1m	300mm
LP	1504	European honeysuckle	Lonicera periclymenum	150mm	4 - 8m	1.5 - 2.5m	500mm
MPy	2099	Carpet Spreading Myoporum	Myoporum parvifolium 'Yareena'	150mm	0.1m	1m	500mm
TJ	1279	Star Jasmine	Trachelospermum jasminoides	150mm	0.3 - 0.6m	1 - 4m	500mm
VV	100	Ornamental Grape	Vitis vinifera	200mm	1- 3m	1 - 3m	1500mm
WM	361	Mundi	Westringia fruticosa 'Mundi'	150mm	0.45 - 0.6m	0.9 - 1.2m	500mm
WSa	16	White Chinese Wisteria	Wisteria sinensis 'Alba'	150mm	5 - 10m	6 - 10m	as shown

PLANTINGS

- Turf
- Turf on podium
- Reinforced turf
- Ground cover-species refer planting schedule
- Shrubs-, species refer planting schedule
- Bushland conservation zone
- Surveyed Pimelea spicata location
- Existing tree to be protected and retained (Existing tree canopy; Tree Protection Zone; Tree number Details refer Arborist's Report; T xx)
- Existing tree to be removed (18 in total)
- Proposed tree planting (87 in total)-species refer planting schedule (xx)
- Building basement outline
- Site boundary (SITE BOUNDARY)

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ABN 53 088 175 437

PROJECT:

STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE

Planting Plan Key Plan

DATE: **OCT**

SCALE: 1:1000 @A1, 1:2000 @A3

ISSUE: 6

0 10 20 30 M

N

DRAWING NO.

3553.PPO00

Public Communal Space Plant Schedule

ID	Qty	Common Name	Botanical Name	Size	Mature Height	Mature Spread	Native (N)
Trees							
BR	3	Illawarra Flame Tree	Brachychiton acerifolius	100Litre	15m	10m	as shown
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FH	3	Hill's Weeping Fig	Ficus Hillii	100Litre	10 - 15m	6 - 10m	as shown
JM	4	Jacaranda	Jacaranda mimosifolia	100Litre	10 - 15m	10 - 15m	as shown
LI	10	Crepe Myrtle	Lagerstroemia indica	100Litre	5 - 10m	3.5 - 6m	as shown
MG	3	Little Gem Southern Magnolia	Magnolia grandiflora 'Little Gem'	100Litre	4 - 6m	2.0 - 3.5m	as shown
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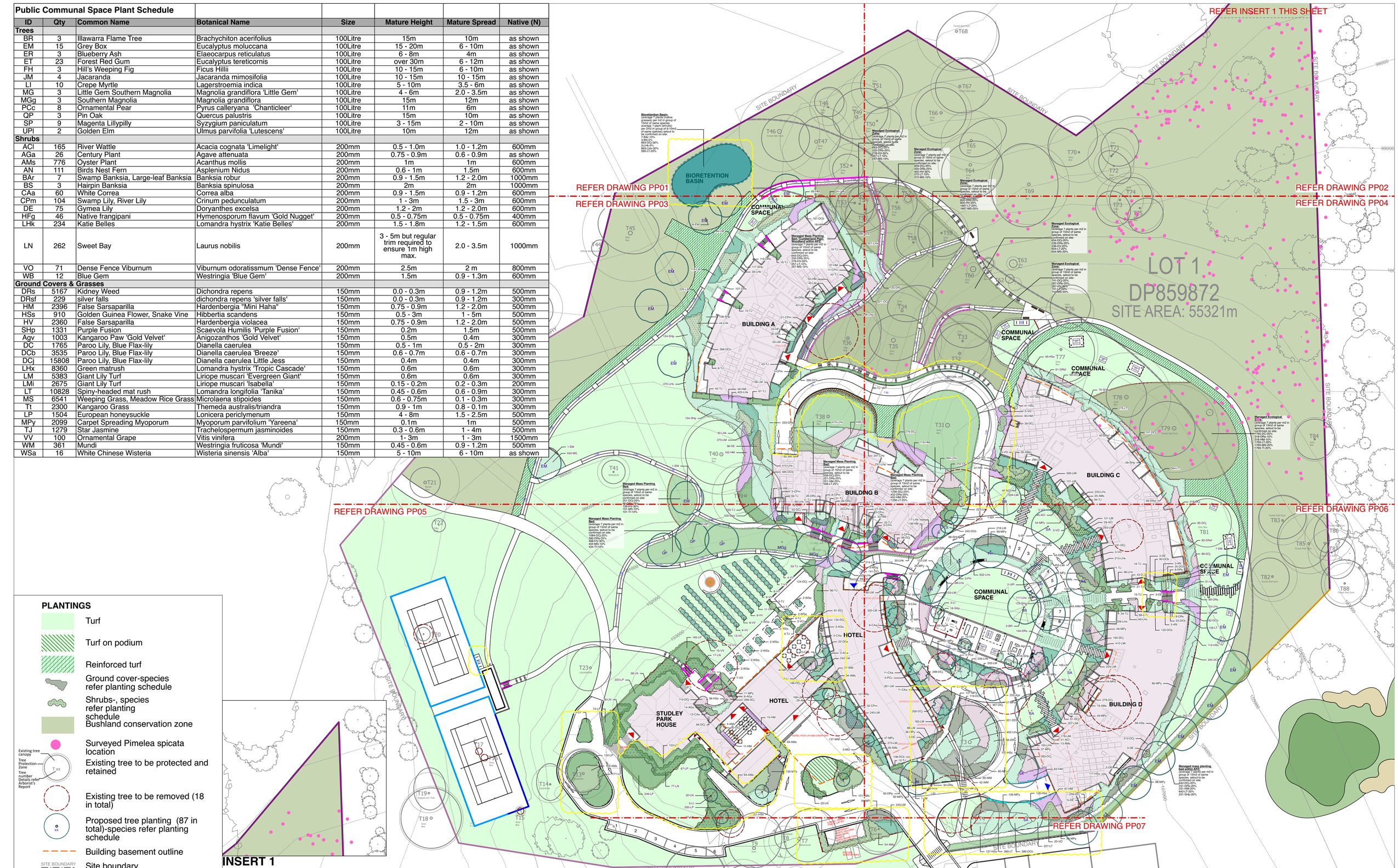

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PROJECT:
STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE
Planting Plan Key Plan
- Sheet 1

0 5 10 15 20 M

DATE
OCT

SCALE
1:500 @A1
1:1000 @A3

ISSUE
6

DRAWING NO.
3553.PPO01

Public Communal Space Plant Schedule

ID	Qty	Common Name	Botanical Name	Size	Mature Height	Mature Spread	Native (N)
Trees							
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MG	3	Little Gem Southern Magnolia	Magnolia grandiflora 'Little Gem'	100Litre	4 - 6m	2.0 - 3.5m	as shown
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UPl	2	Golden Elm	Ulmus parvifolia 'Lutescens'	100Litre	10m	12m	as shown
Shrubs							
ACl	165	River Wattle	Acacia cognata 'Limelight'	200mm	0.5 - 1.0m	1.0 - 1.2m	600mm
AGa	26	Century Plant	Agave attenuata	200mm	0.75 - 0.9m	0.6 - 0.9m	as shown
AMs	776	Oyster Plant	Acanthus mollis	200mm	1m	1m	600mm
AN	111	Birds Nest Fern	Asplenium Nidus	200mm	0.6 - 1m	1.5m	600mm
BAr	7	Swamp Banksia, Large-leaf Banksia	Banksia robur	200mm	0.9 - 1.5m	1.2 - 2.0m	1000mm
BS	3	Hairpin Banksia	Banksia spinulosa	200mm	2m	2m	1000mm
CAa	60	White Correa	Correa alba	200mm	0.9 - 1.5m	0.9 - 1.2m	600mm
CPm	104	Swamp Lily, River Lily	Crinum pedunculatum	200mm	1 - 3m	1.5 - 3m	600mm
DE	75	Gymea Lily	Doryanthes excelsa	200mm	1.2 - 2m	1.2 - 2.0m	600mm
HFg	46	Native frangipani	Hymenosporum flavum 'Gold Nugget'	200mm	0.5 - 0.75m	0.5 - 0.75m	400mm
LHk	234	Katie Belles	Lomandra hystrix 'Katie Belles'	200mm	1.5 - 1.8m	1.2 - 1.5m	600mm
LN	262	Sweet Bay	Laurus nobilis	200mm	3 - 5m but regular trim required to ensure 1m high max.	2.0 - 3.5m	1000mm
VO	71	Dense Fence Viburnum	Viburnum odoratissmum 'Dense Fence'	200mm	2.5m	2 m	800mm
WB	12	Blue Gem	Westringia 'Blue Gem'	200mm	1.5m	0.9 - 1.3m	600mm
Ground Covers & Grasses							
DRs	5167	Kidney Weed	Dichondra repens	150mm	0.0 - 0.3m	0.9 - 1.2m	500mm
DRsf	229	silver falls	dichondra repens 'silver falls'	150mm	0.0 - 0.3m	0.9 - 1.2m	300mm
HM	2396	False Sarsaparilla	Hardenbergia "Mini Haha"	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
HSs	910	Golden Guinea Flower, Snake Vine	Hibbertia scandens	150mm	0.5 - 3m	1 - 5m	500mm
HV	2360	False Sarsaparilla	Hardenbergia violacea	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
SHp	1331	Purple Fusion	Scaevola Humilis 'Purple Fusion'	150mm	0.2m	1.5m	500mm
Agv	1003	Kangaroo Paw 'Gold Velvet'	Anigozanthos 'Gold Velvet'	150mm	0.5m	0.4m	300mm
DC	1765	Paroo Lily, Blue Flax-lily	Dianella caerulea	150mm	0.5 - 1m	0.5 - 2m	300mm
DCb	3535	Paroo Lily, Blue Flax-lily	Dianella caerulea 'Breeze'	150mm	0.6 - 0.7m	0.6 - 0.7m	300mm
DCj	15808	Paroo Lily, Blue Flax-lily	Dianella caerulea Little Jess	150mm	0.4m	0.4m	300mm
LHx	8360	Green matrush	Lomandra hystrix 'Tropic Cascade'	150mm	0.6m	0.6m	300mm
LM	5383	Giant Lily Turf	Liriope muscari 'Evergreen Giant'	150mm	0.6m	0.6m	300mm
LMi	2675	Giant Lily Turf	Liriope muscari 'Isabella'	150mm	0.15 - 0.2m	0.2 - 0.3m	200mm
LT	10828	Spiny-headed mat rush	Lomandra longifolia 'Tanika'	150mm	0.45 - 0.6m	0.6 - 0.9m	300mm
MS	6541	Weeping Grass, Meadow Rice Grass	Microlaena stipoides	150mm	0.6 - 0.75m	0.1 - 0.3m	300mm
Tt	2300	Kangaroo Grass	Themeda australis/triandra	150mm	0.9 - 1m	0.8 - 0.1m	300mm
LP	1504	European honeysuckle	Lonicera periclymenum	150mm	4 - 8m	1.5 - 2.5m	500mm
MPy	2099	Carpet Spreading Myoporum	Myoporum parvifolium 'Yareena'	150mm	0.1m	1m	500mm
TJ	1279	Star Jasmine	Trachelospermum jasminoides	150mm	0.3 - 0.6m	1 - 4m	500mm
VV	100	Ornamental Grape	Vitis vinifera	200mm	1- 3m	1 - 3m	1500mm
WM	361	Mundi	Westringia fruticosa 'Mundi'	150mm	0.45 - 0.6m	0.9 - 1.2m	500mm
WSa	16	White Chinese Wisteria	Wisteria sinensis 'Alba'	150mm	5 - 10m	6 - 10m	as shown



PLANTINGS

- Turf
- Turf on podium
- Reinforced turf
- Ground cover-species refer planting schedule
- Shrubs-, species refer planting schedule
- Bushland conservation zone
- Surveyed Pimelea spicata location
- Existing tree to be protected and retained (Existing tree canopy; Tree Protection Zone; Tree number Details refer Arborist's Report)
- Existing tree to be removed (18 in total)
- Proposed tree planting (87 in total)-species refer planting schedule
- Building basement outline
- Site boundary

ISSUE	AMENDMENT	DRAWN	DATE
6	Reissue For DA	ES	16.10.24
5	Reissue For DA	ES	23.08.24
4	For DA	ES	10.01.23
3	For Coordination	ES	04.03.22
2	Preliminary	ES	17.12.21
1	Preliminary	ES	17.11.21

DESIGNED:	DATE:	APPROVED:
ES	OCT	AH
DRAWN:	DATE:	APPROVED:
ES	OCT	AH
CHECKED:	DATE:	APPROVED:
AH	OCT	AH

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PREPARED FOR:

PETER MORAN

PREPARED BY:

ep environmental partnership
Level 3 suite 3.01 22-36 Mountain street Ultimo 2007
Ph: (02) 9555 1033 Fax: (02) 98185292
Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:

STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE

Planting Plan Key Plan
- Sheet 2

0 5 10 15 20 M

N

DATE
OCT

SCALE
1:500 @A1
1:1000 @A3

ISSUE
6

DRAWING NO.
3553.PPO02

Public Communal Space Plant Schedule

ID	Qty	Common Name	Botanical Name	Size	Mature Height	Mature Spread	Native (N)
Trees							
BR	3	Illawarra Flame Tree	Brachychiton acerifolius	100Litre	15m	10m	as shown
EM	15	Grey Box	Eucalyptus moluccana	100Litre	15 - 20m	6 - 10m	as shown
ER	3	Blueberry Ash	Elaeocarpus reticulatus	100Litre	6 - 8m	4m	as shown
ET	23	Forest Red Gum	Eucalyptus tereticornis	100Litre	over 30m	6 - 12m	as shown
FH	3	Hill's Weeping Fig	Ficus Hillii	100Litre	10 - 15m	6 - 10m	as shown
JM	4	Jacaranda	Jacaranda mimosifolia	100Litre	10 - 15m	10 - 15m	as shown
LI	10	Crepe Myrtle	Lagerstroemia indica	100Litre	5 - 10m	3.5 - 6m	as shown
MG	3	Little Gem Southern Magnolia	Magnolia grandiflora 'Little Gem'	100Litre	4 - 6m	2.0 - 3.5m	as shown
MGg	3	Southern Magnolia	Magnolia grandiflora	100Litre	15m	12m	as shown
PCc	8	Ornamental Pear	Pyrus calleryana 'Chanticleer'	100Litre	11m	6m	as shown
QP	3	Pin Oak	Quercus palustris	100Litre	15m	10m	as shown
SP	9	Magenta Lillypilly	Syzygium paniculatum	100Litre	3 - 15m	2 - 10m	as shown
UPl	2	Golden Elm	Ulmus parvifolia 'Lutescens'	100Litre	10m	12m	as shown
Shrubs							
ACl	165	River Wattle	Acacia cognata 'Limelight'	200mm	0.5 - 1.0m	1.0 - 1.2m	600mm
AGa	26	Century Plant	Agave attenuata	200mm	0.75 - 0.9m	0.6 - 0.9m	as shown
AMs	776	Oyster Plant	Acanthus mollis	200mm	1m	1m	600mm
AN	111	Birds Nest Fern	Asplenium Nidus	200mm	0.6 - 1m	1.5m	600mm
BAr	7	Swamp Banksia, Large-leaf Banksia	Banksia robur	200mm	0.9 - 1.5m	1.2 - 2.0m	1000mm
BS	3	Hairpin Banksia	Banksia spinulosa	200mm	2m	2m	1000mm
CAa	60	White Correa	Correa alba	200mm	0.9 - 1.5m	0.9 - 1.2m	600mm
CPm	104	Swamp Lily, River Lily	Crinum pedunculatum	200mm	1 - 3m	1.5 - 3m	600mm
DE	75	Gymea Lily	Doryanthes excelsa	200mm	1.2 - 2m	1.2 - 2.0m	600mm
HFg	46	Native frangipani	Hymenosporum flavum 'Gold Nugget'	200mm	0.5 - 0.75m	0.5 - 0.75m	400mm
LHk	234	Katie Belles	Lomandra hystrix 'Katie Belles'	200mm	1.5 - 1.8m	1.2 - 1.5m	600mm
LN	262	Sweet Bay	Laurus nobilis	200mm	3 - 5m but regular trim required to ensure 1m high max.	2.0 - 3.5m	1000mm
VO	71	Dense Fence Viburnum	Viburnum odoratissmum 'Dense Fence'	200mm	2.5m	2 m	800mm
WB	12	Blue Gem	Westringia 'Blue Gem'	200mm	1.5m	0.9 - 1.3m	600mm
Ground Covers & Grasses							
DRs	5167	Kidney Weed	Dichondra repens	150mm	0.0 - 0.3m	0.9 - 1.2m	500mm
DRsf	229	silver falls	dichondra repens 'silver falls'	150mm	0.0 - 0.3m	0.9 - 1.2m	300mm
HM	2396	False Sarsaparilla	Hardenbergia "Mini Haha"	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
HSs	910	Golden Guinea Flower, Snake Vine	Hibbertia scandens	150mm	0.5 - 3m	1 - 5m	500mm
HV	2360	False Sarsaparilla	Hardenbergia violacea	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
SHp	1331	Purple Fusion	Scaevola Humilis 'Purple Fusion'	150mm	0.2m	1.5m	500mm
Agv	1003	Kangaroo Paw 'Gold Velvet'	Anigozanthos 'Gold Velvet'	150mm	0.5m	0.4m	300mm
DC	1765	Paroo Lily, Blue Flax-lily	Dianella caerulea	150mm	0.5 - 1m	0.5 - 2m	300mm
DCb	3535	Paroo Lily, Blue Flax-lily	Dianella caerulea 'Breeze'	150mm	0.6 - 0.7m	0.6 - 0.7m	300mm
DCj	15808	Paroo Lily, Blue Flax-lily	Dianella caerulea Little Jess	150mm	0.4m	0.4m	300mm
LHx	8360	Green matrush	Lomandra hystrix 'Tropic Cascade'	150mm	0.6m	0.6m	300mm
LM	5383	Giant Lily Turf	Liriope muscari 'Evergreen Giant'	150mm	0.6m	0.6m	300mm
LMi	2675	Giant Lily Turf	Liriope muscari 'Isabella'	150mm	0.15 - 0.2m	0.2 - 0.3m	200mm
LT	10828	Spiny-headed mat rush	Lomandra longifolia 'Tanika'	150mm	0.45 - 0.6m	0.6 - 0.9m	300mm
MS	6541	Weeping Grass, Meadow Rice Grass	Microlaena stipoides	150mm	0.6 - 0.75m	0.1 - 0.3m	300mm
Tt	2300	Kangaroo Grass	Themeda australis/triandra	150mm	0.9 - 1m	0.8 - 0.1m	300mm
LP	1504	European honeysuckle	Lonicera periclymenum	150mm	4 - 8m	1.5 - 2.5m	500mm
MPy	2099	Carpet Spreading Myoporum	Myoporum parvifolium 'Yareena'	150mm	0.1m	1m	500mm
TJ	1279	Star Jasmine	Trachelospermum jasminoides	150mm	0.3 - 0.6m	1 - 4m	500mm
VV	100	Ornamental Grape	Vitis vinifera	200mm	1- 3m	1 - 3m	1500mm
WM	361	Mundi	Westringia fruticosa 'Mundi'	150mm	0.45 - 0.6m	0.9 - 1.2m	500mm
WSa	16	White Chinese Wisteria	Wisteria sinensis 'Alba'	150mm	5 - 10m	6 - 10m	as shown

PLANTINGS

- Turf
- Turf on podium
- Reinforced turf
- Ground cover-species refer planting schedule
- Shrubs-, species refer planting schedule
- Bushland conservation zone
- Surveyed Pimelea spicata location
- Existing tree to be protected and retained (Existing tree canopy; Tree Protection Zone; Tree number Details refer Arborist's Report)
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- Proposed tree planting (87 in total)-species refer planting schedule
- Building basement outline
- Site boundary

REF DRAWING PP02

REFER DRAWING PP03

93000

93000

SITE BOUNDARY

Bioretiention Basin:
(average 7 plants (native grasses) per m2 in group of 15m2 of same species. average 1 plant (shrubs) per 2m2 in group of 6-10m2 of same species) setout to be confirmed on site:
7-BAr-10%
3-BS-5%
893-DCj-30%
3-LHk-5%
893-LHx-30%
595-LT-20%

Managed E Zone:
(average 7 group of 15 species, se confirmed o
643-DCj-25
232-DRs-2
278-HV-30
257-LT-10
257-MS-10

BIORETENTION BASIN

COMMUNAL SPACE

T46 Forest Red Gum
T47 Grey Box
T48 Grey Box
T49 Grey Box
T50 Grey Box
T51 Grey Box
T52 Grey Box
T53 Forest Red Gum
T54 Grey Box
T55

EM
69-HM
24-LHk
47-LHk
161-DCb
1:14
1:20

0 5 10 15 M

N

ISSUE	AMENDMENT	DRAWN	DATE
6	Reissue For DA	ES	16.10.24
5	Reissue For DA	ES	23.08.24
4	For DA	ES	10.01.23
3	For Coordination	ES	04.03.22
2	Preliminary	ES	17.12.21
1	Preliminary	ES	17.11.21

DESIGNED: ES	DATE: OCT	APPROVED: AH
DRAWN: ES	DATE: OCT	APPROVED: AH
CHECKED: AH	DATE: OCT	APPROVED: AH

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PREPARED FOR:
PETER MORAN

PREPARED BY:
ep environmental partnership
Level 3 suite 3.01 22-36 Mountain street Ultimo 2007
Ph: (02) 9555 1033 Fax: (02) 98185292
Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:
STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE
Planting Plan - Area 1

DATE
OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

DRAWING NO.
3553.PP01

Public Communal Space Plant Schedule

ID	Qty	Common Name	Botanical Name	Size	Mature Height	Mature Spread	Native (N)
Trees							
BR	3	Illawarra Flame Tree	Brachychiton acerifolius	100Litre	15m	10m	as shown
EM	15	Grey Box	Eucalyptus moluccana	100Litre	15 - 20m	6 - 10m	as shown
ER	3	Blueberry Ash	Elaeocarpus reticulatus	100Litre	6 - 8m	4m	as shown
ET	23	Forest Red Gum	Eucalyptus tereticornis	100Litre	over 30m	6 - 12m	as shown
FH	3	Hill's Weeping Fig	Ficus Hillii	100Litre	10 - 15m	6 - 10m	as shown
JM	4	Jacaranda	Jacaranda mimosifolia	100Litre	10 - 15m	10 - 15m	as shown
LI	10	Crepe Myrtle	Lagerstroemia indica	100Litre	5 - 10m	3.5 - 6m	as shown
MG	3	Little Gem Southern Magnolia	Magnolia grandiflora 'Little Gem'	100Litre	4 - 6m	2.0 - 3.5m	as shown
MGg	3	Southern Magnolia	Magnolia grandiflora	100Litre	15m	12m	as shown
PCc	8	Ornamental Pear	Pyrus calleryana 'Chanticleer'	100Litre	11m	6m	as shown
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SP	9	Magenta Lillypilly	Syzygium paniculatum	100Litre	3 - 15m	2 - 10m	as shown
UPl	2	Golden Elm	Ulmus parvifolia 'Lutescens'	100Litre	10m	12m	as shown
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BS	3	Hairpin Banksia	Banksia spinulosa	200mm	2m	2m	1000mm
CAa	60	White Correa	Correa alba	200mm	0.9 - 1.5m	0.9 - 1.2m	600mm
CPm	104	Swamp Lily, River Lily	Crinum pedunculatum	200mm	1 - 3m	1.5 - 3m	600mm
DE	75	Gymea Lily	Doryanthes excelsa	200mm	1.2 - 2m	1.2 - 2.0m	600mm
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PLANTINGS

- Turf
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- Shrubs-, species refer planting schedule
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- Surveyed Pimelea spicata location
- Existing tree to be protected and retained (Existing tree canopy; Tree Protection Zone; Tree number Details refer Arborist's Report)
- Existing tree to be removed (18 in total)
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- Building basement outline
- Site boundary

REFER DRAWING PP01

SITE BOUNDARY

SITE BOUNDARY

REFER DRAWING PP04

96000

97000

98000

99000

T51 Grey Box
T67 Forest Red Gum
T49 Grey Box
T66 Grey Box
T50 Grey Box
T65 Grey Box
T70 Grey Box
T71 Grey Box
T64 Grey Box
T72 Grey Box
T69 Grey Box
T74 Grey Box
T73 Grey Box
T75 Grey
T57 Grey Box
T54 Grey Box
T56 Grey Box
T55

Managed Ecological Zone:
(average 7 plants per m2 in group of 15m2 of same species, setout to be confirmed on site:
643-DCj-25%
232-DRs-25%
278-HV-30%
257-LT-10%
257-MS-10%

Managed Ecological Zone:
(average 7 plants per m2 in group of 15m2 of same species, setout to be confirmed on site:
929-DCj-25%
335-DRs-25%
402-HV-30%
372-LT-10%
372-MS-10%

Managed Ecological Zone:
(average 7 plants per m2 in group of 15m2 of same species, setout to be confirmed on site:
1667-DCj-20%
600-DRs-20%
600-HV-20%
1667-LT-20%
1667-MS-20%

1:14

ISSUE	AMENDMENT	DRAWN	DATE
6	Reissue For DA	ES	16.10.24
5	Reissue For DA	ES	23.08.24
4	For DA	ES	10.01.23
3	For Coordination	ES	04.03.22
2	Preliminary	ES	17.12.21
1	Preliminary	ES	17.11.21

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DRAWN: ES	DATE: OCT	APPROVED: AH
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ABN 53 088 175 437

PROJECT:
STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE
Planting Plan - Area 2

DATE
OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

DRAWING NO.
3553.PP02

0 5 10 15 M

N

Public Communal Space Plant Schedule

ID	Qty	Common Name	Botanical Name	Size	Mature Height	Mature Spread	Native (N)
Trees							
BR	3	Illawarra Flame Tree	Brachychiton acerifolius	100Litre	15m	10m	as shown
EM	15	Grey Box	Eucalyptus moluccana	100Litre	15 - 20m	6 - 10m	as shown
ER	3	Blueberry Ash	Elaeocarpus reticulatus	100Litre	6 - 8m	4m	as shown
ET	23	Forest Red Gum	Eucalyptus tereticornis	100Litre	over 30m	6 - 12m	as shown
FH	3	Hill's Weeping Fig	Ficus Hillii	100Litre	10 - 15m	6 - 10m	as shown
JM	4	Jacaranda	Jacaranda mimosifolia	100Litre	10 - 15m	10 - 15m	as shown
LI	10	Crepe Myrtle	Lagerstroemia indica	100Litre	5 - 10m	3.5 - 6m	as shown
MG	3	Little Gem Southern Magnolia	Magnolia grandiflora 'Little Gem'	100Litre	4 - 6m	2.0 - 3.5m	as shown
MGg	3	Southern Magnolia	Magnolia grandiflora	100Litre	15m	12m	as shown
PCc	8	Ornamental Pear	Pyrus calleryana 'Chanticleer'	100Litre	11m	6m	as shown
QP	3	Pin Oak	Quercus palustris	100Litre	15m	10m	as shown
SP	9	Magenta Lillypilly	Syzygium paniculatum	100Litre	3 - 15m	2 - 10m	as shown
UPl	2	Golden Elm	Ulmus parvifolia 'Lutescens'	100Litre	10m	12m	as shown
Shrubs							
ACl	165	River Wattle	Acacia cognata 'Limelight'	200mm	0.5 - 1.0m	1.0 - 1.2m	600mm
AGa	26	Century Plant	Agave attenuata	200mm	0.75 - 0.9m	0.6 - 0.9m	as shown
AMs	776	Oyster Plant	Acanthus mollis	200mm	1m	1m	600mm
AN	111	Birds Nest Fern	Asplenium Nidus	200mm	0.6 - 1m	1.5m	600mm
BAr	7	Swamp Banksia, Large-leaf Banksia	Banksia robur	200mm	0.9 - 1.5m	1.2 - 2.0m	1000mm
BS	3	Hairpin Banksia	Banksia spinulosa	200mm	2m	2m	1000mm
CAa	60	White Correa	Correa alba	200mm	0.9 - 1.5m	0.9 - 1.2m	600mm
CPm	104	Swamp Lily, River Lily	Crinum pedunculatum	200mm	1 - 3m	1.5 - 3m	600mm
DE	75	Gymea Lily	Doryanthes excelsa	200mm	1.2 - 2m	1.2 - 2.0m	600mm
HFg	46	Native frangipani	Hymenosporum flavum 'Gold Nugget'	200mm	0.5 - 0.75m	0.5 - 0.75m	400mm
LHk	234	Katie Belles	Lomandra hystrix 'Katie Belles'	200mm	1.5 - 1.8m	1.2 - 1.5m	600mm
LN	262	Sweet Bay	Laurus nobilis	200mm	3 - 5m but regular trim required to ensure 1m high max.	2.0 - 3.5m	1000mm
VO	71	Dense Fence Viburnum	Viburnum odoratissmum 'Dense Fence'	200mm	2.5m	2 m	800mm
WB	12	Blue Gem	Westringia 'Blue Gem'	200mm	1.5m	0.9 - 1.3m	600mm
Ground Covers & Grasses							
DRs	5167	Kidney Weed	Dichondra repens	150mm	0.0 - 0.3m	0.9 - 1.2m	500mm
DRsf	229	silver falls	dichondra repens 'silver falls'	150mm	0.0 - 0.3m	0.9 - 1.2m	300mm
HM	2396	False Sarsaparilla	Hardenbergia "Mini Haha"	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
HSs	910	Golden Guinea Flower, Snake Vine	Hibbertia scandens	150mm	0.5 - 3m	1 - 5m	500mm
HV	2360	False Sarsaparilla	Hardenbergia violacea	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
SHp	1331	Purple Fusion	Scaevola Humilis 'Purple Fusion'	150mm	0.2m	1.5m	500mm
Agv	1003	Kangaroo Paw 'Gold Velvet'	Anigozanthos 'Gold Velvet'	150mm	0.5m	0.4m	300mm
DC	1765	Paroo Lily, Blue Flax-lily	Dianella caerulea	150mm	0.5 - 1m	0.5 - 2m	300mm
DCb	3535	Paroo Lily, Blue Flax-lily	Dianella caerulea 'Breeze'	150mm	0.6 - 0.7m	0.6 - 0.7m	300mm
DCj	15808	Paroo Lily, Blue Flax-lily	Dianella caerulea Little Jess	150mm	0.4m	0.4m	300mm
LHx	8360	Green matrush	Lomandra hystrix 'Tropic Cascade'	150mm	0.6m	0.6m	300mm
LM	5383	Giant Lily Turf	Liriope muscari 'Evergreen Giant'	150mm	0.6m	0.6m	300mm
LMi	2675	Giant Lily Turf	Liriope muscari 'Isabella'	150mm	0.15 - 0.2m	0.2 - 0.3m	200mm
LT	10828	Spiny-headed mat rush	Lomandra longifolia 'Tanika'	150mm	0.45 - 0.6m	0.6 - 0.9m	300mm
MS	6541	Weeping Grass, Meadow Rice Grass	Microlaena stipoides	150mm	0.6 - 0.75m	0.1 - 0.3m	300mm
Tt	2300	Kangaroo Grass	Themeda australis/triandra	150mm	0.9 - 1m	0.8 - 0.1m	300mm
LP	1504	European honeysuckle	Lonicera periclymenum	150mm	4 - 8m	1.5 - 2.5m	500mm
MPy	2099	Carpet Spreading Myoporum	Myoporum parvifolium 'Yareena'	150mm	0.1m	1m	500mm
TJ	1279	Star Jasmine	Trachelospermum jasminoides	150mm	0.3 - 0.6m	1 - 4m	500mm
VV	100	Ornamental Grape	Vitis vinifera	200mm	1- 3m	1 - 3m	1500mm
WM	361	Mundi	Westringia fruticosa 'Mundi'	150mm	0.45 - 0.6m	0.9 - 1.2m	500mm
WSa	16	White Chinese Wisteria	Wisteria sinensis 'Alba'	150mm	5 - 10m	6 - 10m	as shown

PLANTINGS

- Turf
- Turf on podium
- Reinforced turf
- Ground cover-species refer planting schedule
- Shrubs-, species refer planting schedule
- Bushland conservation zone
- Surveyed Pimelea spicata location
- Existing tree to be protected and retained (Existing tree canopy; Tree Protection Zone; Tree number Details refer Arborist's Report)
- Existing tree to be removed (18 in total)
- Proposed tree planting (87 in total)-species refer planting schedule
- Building basement outline
- SITE BOUNDARY Site boundary

REFER DRAWING PP01

REFER DRAWING PP04

REFER DRAWING PP05

BIORETENTION BASIN

COMMUNAL SPACE

BUILDING A

BUILDING B

T36 Grey Box; T38 Grey Box; T39 Grey Box; T40 Grey Box; T41 Woolybutt; T44 Willow Bottlebrush; T45 Blue Box; T53 Forest Red Gum; T54 Grey Box; T55 Grey Box; T21 Bunya Pine

Managed Mass Planting Bed / Cumberland Plain Woodland within APZ:
(average 7 plants per m2 in group of 15m2 of same species, setout to be confirmed on site:
643-DCj-25%
232-DRs-25%
278-HV-30%
257-LT-10%
257-MS-10%

Managed Mass Planting Bed:
(average 7 plants per m2 in group of 15m2 of same species, setout to be confirmed on site:
251-DCj-25%
90-DRs-25%
109-HV-30%
101-MS-10%
101-Tt-10%

Managed Mass Planting Bed:
(average 7 plants per m2 in group of 15m2 of same species, setout to be confirmed on site:
558-DCj-25%
201-DRs-25%
201-HM-25%
558-LT-25%

Managed Mass Planting

ISSUE	AMENDMENT	DRAWN	DATE
6	Reissue For DA	ES	16.10.24
5	Reissue For DA	ES	23.08.24
4	For DA	ES	10.01.23
3	For Coordination	ES	04.03.22
2	Preliminary	ES	17.12.21
1	Preliminary	ES	17.11.21

	DESIGNED:	DATE:	APPROVED:
	ES	OCT	AH
DRAWN:	ES	OCT	AH
CHECKED:	AH	OCT	AH

GENERAL NOTES
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5. Read in conjunction with all Civil, and Electrical Engineer drawings and specifications.
6. Read in conjunction with all associated drawings

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PREPARED BY:
ep environmental partnership
Level 3 suite 3.01 22-36 Mountain street Ultimo 2007
Ph: (02) 9555 1033 Fax: (02) 98185292
Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:
STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE
Planting Plan - Area 3

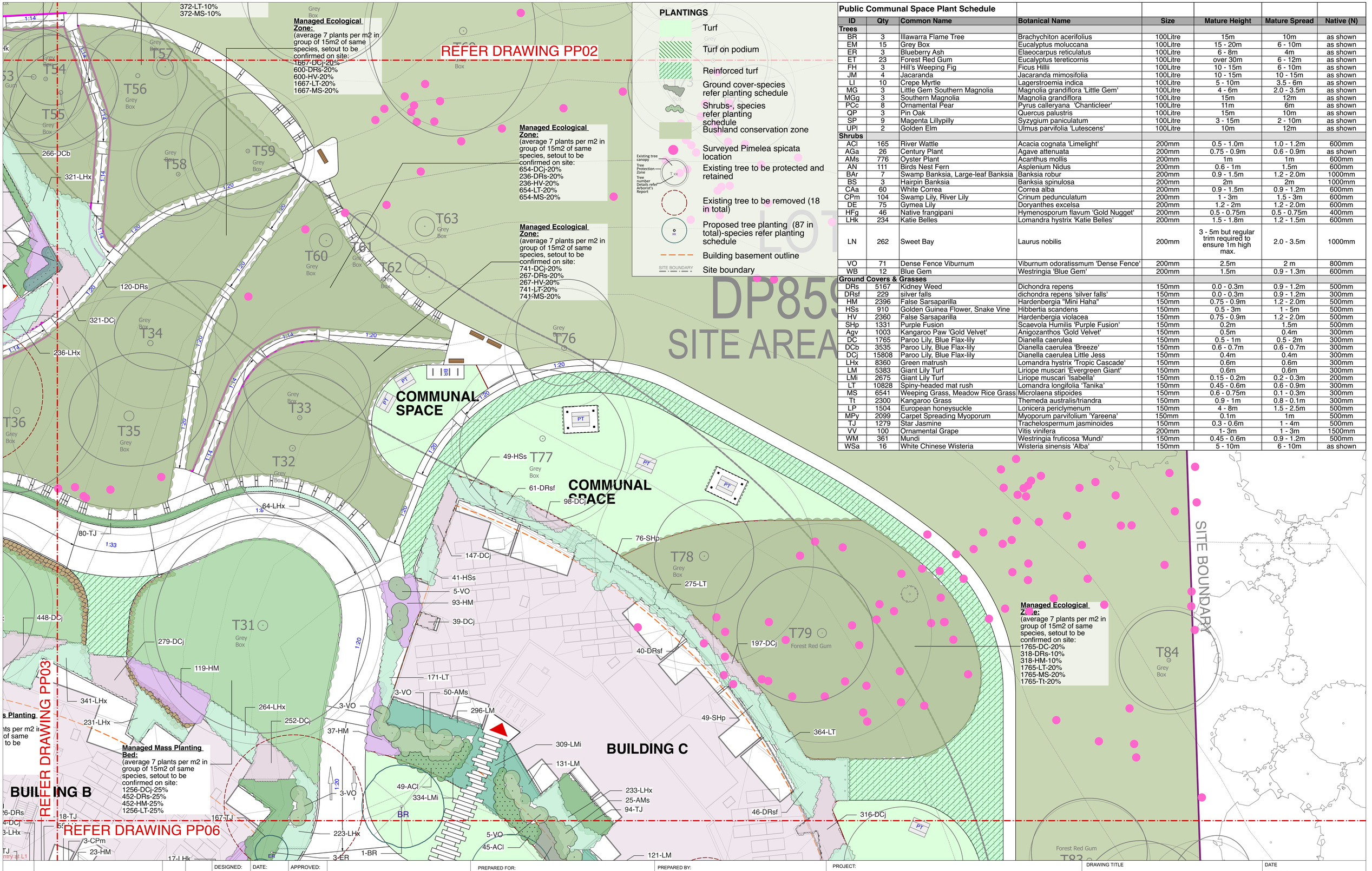
DATE
OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

DRAWING NO.
3553.PP03

0 5 10 15 M



PLANTINGS

- Turf
- Turf on podium
- Reinforced turf
- Ground cover-species refer planting schedule
- Shrubs-, species refer planting schedule
- Bushland conservation zone
- Surveyed Pimelea spicata location
- Existing tree to be protected and retained
- Existing tree to be removed (18 in total)
- Proposed tree planting (87 in total)-species refer planting schedule
- Building basement outline
- Site boundary

Existing tree canopy; Tree Protection Zone; Tree number Details refer Arborist's Report

Public Communal Space Plant Schedule

ID	Qty	Common Name	Botanical Name	Size	Mature Height	Mature Spread	Native (N)
Trees							
BR	3	Illawarra Flame Tree	Brachychiton acerifolius	100Litre	15m	10m	as shown
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ER	3	Blueberry Ash	Elaeocarpus reticulatus	100Litre	6 - 8m	4m	as shown
ET	23	Forest Red Gum	Eucalyptus tereticornis	100Litre	over 30m	6 - 12m	as shown
FH	3	Hill's Weeping Fig	Ficus Hillii	100Litre	10 - 15m	6 - 10m	as shown
JM	4	Jacaranda	Jacaranda mimosifolia	100Litre	10 - 15m	10 - 15m	as shown
LI	10	Crepe Myrtle	Lagerstroemia indica	100Litre	5 - 10m	3.5 - 6m	as shown
MG	3	Little Gem Southern Magnolia	Magnolia grandiflora 'Little Gem'	100Litre	4 - 6m	2.0 - 3.5m	as shown
MGg	3	Southern Magnolia	Magnolia grandiflora	100Litre	15m	12m	as shown
PCc	8	Ornamental Pear	Pyrus calleryana 'Chanticleer'	100Litre	11m	6m	as shown
QP	3	Pin Oak	Quercus palustris	100Litre	15m	10m	as shown
SP	9	Magenta Lillypilly	Syzygium paniculatum	100Litre	3 - 15m	2 - 10m	as shown
UPl	2	Golden Elm	Ulmus parvifolia 'Lutescens'	100Litre	10m	12m	as shown
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AGa	26	Century Plant	Agave attenuata	200mm	0.75 - 0.9m	0.6 - 0.9m	as shown
AMs	776	Oyster Plant	Acanthus mollis	200mm	1m	1m	600mm
AN	111	Birds Nest Fern	Asplenium Nidus	200mm	0.6 - 1m	1.5m	600mm
BAr	7	Swamp Banksia, Large-leaf Banksia	Banksia robur	200mm	0.9 - 1.5m	1.2 - 2.0m	1000mm
BS	3	Hairpin Banksia	Banksia spinulosa	200mm	2m	2m	1000mm
CAa	60	White Correa	Correa alba	200mm	0.9 - 1.5m	0.9 - 1.2m	600mm
CPm	104	Swamp Lily, River Lily	Crinum pedunculatum	200mm	1 - 3m	1.5 - 3m	600mm
DE	75	Gymea Lily	Doryanthes excelsa	200mm	1.2 - 2m	1.2 - 2.0m	600mm
HFg	46	Native frangipani	Hymenosporum flavum 'Gold Nugget'	200mm	0.5 - 0.75m	0.5 - 0.75m	400mm
LHk	234	Katie Belles	Lomandra hystrix 'Katie Belles'	200mm	1.5 - 1.8m	1.2 - 1.5m	600mm
LN	262	Sweet Bay	Laurus nobilis	200mm	3 - 5m but regular trim required to ensure 1m high max.	2.0 - 3.5m	1000mm
VO	71	Dense Fence Viburnum	Viburnum odoratissmum 'Dense Fence'	200mm	2.5m	2 m	800mm
WB	12	Blue Gem	Westringia 'Blue Gem'	200mm	1.5m	0.9 - 1.3m	600mm
Ground Covers & Grasses							
DRs	5167	Kidney Weed	Dichondra repens	150mm	0.0 - 0.3m	0.9 - 1.2m	500mm
DRsf	229	silver falls	dichondra repens 'silver falls'	150mm	0.0 - 0.3m	0.9 - 1.2m	300mm
HM	2396	False Sarsaparilla	Hardenbergia "Mini Haha"	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
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SHp	1331	Purple Fusion	Scaevola Humilis 'Purple Fusion'	150mm	0.2m	1.5m	500mm
Agv	1003	Kangaroo Paw 'Gold Velvet'	Anigozanthos 'Gold Velvet'	150mm	0.5m	0.4m	300mm
DC	1765	Paroo Lily, Blue Flax-lily	Dianella caerulea	150mm	0.5 - 1m	0.5 - 2m	300mm
DCb	3535	Paroo Lily, Blue Flax-lily	Dianella caerulea 'Breeze'	150mm	0.6 - 0.7m	0.6 - 0.7m	300mm
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LHx	8360	Green matrush	Lomandra hystrix 'Tropic Cascade'	150mm	0.6m	0.6m	300mm
LM	5383	Giant Lily Turf	Liriope muscari 'Evergreen Giant'	150mm	0.6m	0.6m	300mm
LMi	2675	Giant Lily Turf	Liriope muscari 'Isabella'	150mm	0.15 - 0.2m	0.2 - 0.3m	200mm
LT	10828	Spiny-headed mat rush	Lomandra longifolia 'Tanika'	150mm	0.45 - 0.6m	0.6 - 0.9m	300mm
MS	6541	Weeping Grass, Meadow Rice Grass	Microlaena stipoides	150mm	0.6 - 0.75m	0.1 - 0.3m	300mm
Tt	2300	Kangaroo Grass	Themeda australis/triandra	150mm	0.9 - 1m	0.8 - 0.1m	300mm
LP	1504	European honeysuckle	Lonicera periclymenum	150mm	4 - 8m	1.5 - 2.5m	500mm
MPy	2099	Carpet Spreading Myoporum	Myoporum parvifolium 'Yareena'	150mm	0.1m	1m	500mm
TJ	1279	Star Jasmine	Trachelospermum jasminoides	150mm	0.3 - 0.6m	1 - 4m	500mm
VV	100	Ornamental Grape	Vitis vinifera	200mm	1- 3m	1 - 3m	1500mm
WM	361	Mundi	Westringia fruticosa 'Mundi'	150mm	0.45 - 0.6m	0.9 - 1.2m	500mm
WSa	16	White Chinese Wisteria	Wisteria sinensis 'Alba'	150mm	5 - 10m	6 - 10m	as shown

ISSUE	AMENDMENT	DRAWN	DATE
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5	Reissue For DA	ES	23.08.24
4	For DA	ES	10.01.23
3	For Coordination	ES	04.03.22
2	Preliminary	ES	17.12.21
1	Preliminary	ES	17.11.21

DESIGNED: ES	DATE: OCT	APPROVED: AH
DRAWN: ES	DATE: OCT	APPROVED: AH
CHECKED: AH	DATE: OCT	APPROVED: AH

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PETER MORAN

PREPARED BY:
ep environmental partnership
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Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:
STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE
Planting Plan - Area 4

DATE
OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

DRAWING NO.
3553.PP04

0 5 10 15 M

REFER DRAWING PP03

Public Communal Space Plant Schedule

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MG	3	Little Gem Southern Magnolia	Magnolia grandiflora 'Little Gem'	100Litre	4 - 6m	2.0 - 3.5m	as shown
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VV	100	Ornamental Grape	Vitis vinifera	200mm	1- 3m	1 - 3m	1500mm
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WSa	16	White Chinese Wisteria	Wisteria sinensis 'Alba'	150mm	5 - 10m	6 - 10m	as shown

(average 7 plants per m2 in group of 15m2 of same species, setout to be confirmed on site:
251-DCj-25%
90-DRs-25%
109-HV-30%
101-MS-10%
101-Tt-10%

Managed Mass Planting Bed:
(average 7 plants per m2 in group of 15m2 of same species, setout to be confirmed on site:
1084-DCj-25%
390-DRs-25%
468-HV-30%
434-MS-10%
434-Tt-10%

BUILDING B

HOTEL

STUDLEY PARK HOUSE

REFER DRAWING PP06

REFER DRAWING PP07

HOTEL PICK UP AND DROP OFF

SERVICE LIFT

LOADING DOCK

COACH / WASTE TRUCK LAY-BY

TEMPORARY WASTE HOLDING AREA WITH

EGRESS ACCESS

CEREMONY ENTRANCE

Entry at G

Entry at L1

SITE BOUNDARY

T23 Liquidambar
T19 Peppercorn Tree
T18 Grey Box
T17 Grey Box
T16 Grey Box
T15 Grey Box
T14 Jacaranda
T13 Jacaranda
T10 Stormosán Sweet Gum
T99 Grey Box

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- Reinforced turf
- Ground cover-species refer planting schedule
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- Bushland conservation zone
- Surveyed Pimelea spicata location
- Existing tree to be protected and retained (Existing tree canopy; Tree Protection Zone; Tree number Details refer Arborist's Report)
- Existing tree to be removed (18 in total)
- Proposed tree planting (87 in total)-species refer planting schedule
- Building basement outline
- Site boundary

ISSUE	AMENDMENT	DRAWN	DATE
6	Reissue For DA	ES	16.10.24
5	Reissue For DA	ES	23.08.24
4	For DA	ES	10.01.23
3	For Coordination	ES	04.03.22
2	Preliminary	ES	17.12.21
1	Preliminary	ES	17.11.21

DESIGNED:	DATE:	APPROVED:
ES	OCT	AH
DRAWN:	DATE:	APPROVED:
ES	OCT	AH
CHECKED:	DATE:	APPROVED:
AH	OCT	AH

GENERAL NOTES
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5. Read in conjunction with all Civil, and Electrical Engineer drawings and specifications.
6. Read in conjunction with all associated drawings

PREPARED FOR:
PETER MORAN

PREPARED BY:
ep environmental partnership
Level 3 suite 3.01 22-36 Mountain street Ultimo 2007
Ph: (02) 9555 1033 Fax: (02) 98185292
Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:
STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE
Planting Plan - Area 5

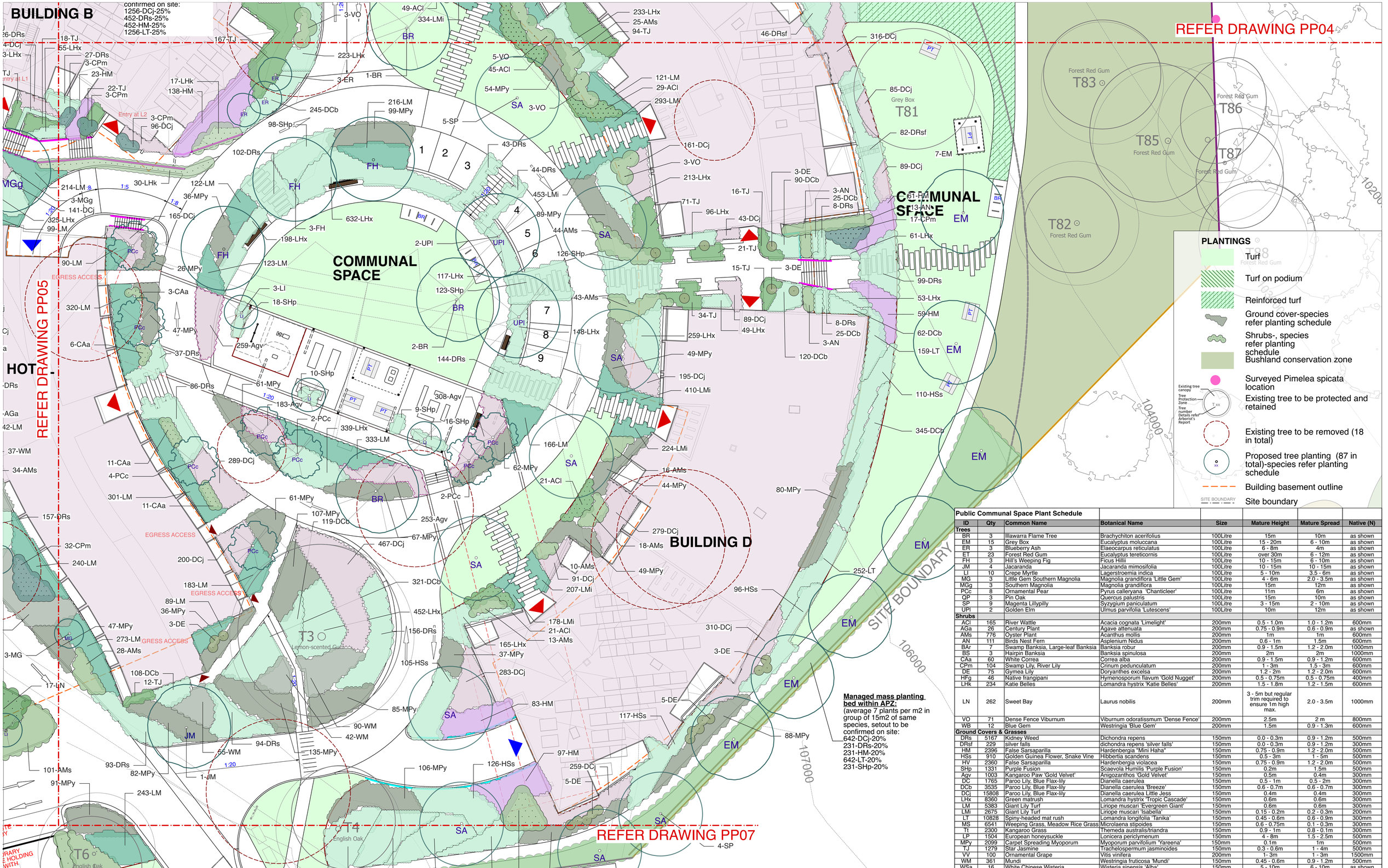
DATE
OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

DRAWING NO.
3553.PP05

0 5 10 15 M



Public Communal Space Plant Schedule

ID	Qty	Common Name	Botanical Name	Size	Mature Height	Mature Spread	Native (N)
Trees							
BR	3	Illawarra Flame Tree	Brachychiton acerifolius	100Litre	15m	10m	as shown
EM	15	Grey Box	Eucalyptus moluccana	100Litre	15 - 20m	6 - 10m	as shown
ER	3	Blueberry Ash	Elaeocarpus reticulatus	100Litre	6 - 8m	4m	as shown
ET	23	Forest Red Gum	Eucalyptus tereticornis	100Litre	over 30m	6 - 12m	as shown
FH	3	Hill's Weeping Fig	Ficus Hillii	100Litre	10 - 15m	6 - 10m	as shown
JM	4	Jacaranda	Jacaranda mimosifolia	100Litre	10 - 15m	10 - 15m	as shown
LI	10	Crepe Myrtle	Lagerstroemia indica	100Litre	5 - 10m	3.5 - 6m	as shown
MG	3	Little Gem Southern Magnolia	Magnolia grandiflora 'Little Gem'	100Litre	4 - 6m	2.0 - 3.5m	as shown
MGg	3	Southern Magnolia	Magnolia grandiflora	100Litre	15m	12m	as shown
PCc	8	Ornamental Pear	Pyrus calleryana 'Chanticleer'	100Litre	11m	6m	as shown
QP	3	Pin Oak	Quercus palustris	100Litre	15m	10m	as shown
SP	9	Magenta Lillypilly	Syzygium paniculatum	100Litre	3 - 15m	2 - 10m	as shown
UPl	2	Golden Elm	Ulmus parvifolia 'Lutescens'	100Litre	10m	12m	as shown
Shrubs							
ACl	165	River Wattle	Acacia cognata 'Limelight'	200mm	0.5 - 1.0m	1.0 - 1.2m	600mm
AGa	26	Century Plant	Agave attenuata	200mm	0.75 - 0.9m	0.6 - 0.9m	as shown
AMs	776	Oyster Plant	Acanthus mollis	200mm	1m	1m	600mm
AN	111	Birds Nest Fern	Asplenium Nidus	200mm	0.6 - 1m	1.5m	600mm
BAr	7	Swamp Banksia, Large-leaf Banksia	Banksia robur	200mm	0.9 - 1.5m	1.2 - 2.0m	1000mm
BS	3	Hairpin Banksia	Banksia spinulosa	200mm	2m	2m	1000mm
CAa	60	White Correa	Correa alba	200mm	0.9 - 1.5m	0.9 - 1.2m	600mm
CPm	104	Swamp Lily, River Lily	Crinum pedunculatum	200mm	1 - 3m	1.5 - 3m	600mm
DE	75	Gymea Lily	Doryanthes excelsa	200mm	1.2 - 2m	1.2 - 2.0m	600mm
HFg	46	Native Frangipani	Hymenosporum flavum 'Gold Nugget'	200mm	0.5 - 0.75m	0.5 - 0.75m	400mm
LHk	234	Katie Belles	Lomandra hystrix 'Katie Belles'	200mm	1.5 - 1.8m	1.2 - 1.5m	600mm
LN	262	Sweet Bay	Laurus nobilis	200mm	3 - 5m but regular trim required to ensure 1m high max.	2.0 - 3.5m	1000mm
VO	71	Dense Fence Viburnum	Viburnum odoratissmum 'Dense Fence'	200mm	2.5m	2 m	800mm
WB	12	Blue Gem	Westringia 'Blue Gem'	200mm	1.5m	0.9 - 1.3m	600mm
Ground Covers & Grasses							
DRs	5167	Kidney Weed	Dichondra repens	150mm	0.0 - 0.3m	0.9 - 1.2m	500mm
DRsf	229	silver falls	dichondra repens 'silver falls'	150mm	0.0 - 0.3m	0.9 - 1.2m	300mm
HM	2396	False Sarsaparilla	Hardenbergia "Mini Haha"	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
HSs	910	Golden Guinea Flower, Snake Vine	Hibbertia scandens	150mm	0.5 - 3m	1 - 5m	500mm
HV	2360	False Sarsaparilla	Hardenbergia violacea	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
SHp	1331	Purple Fusion	Scaevola Humilis 'Purple Fusion'	150mm	0.2m	1.5m	500mm
Agv	1003	Kangaroo Paw 'Gold Velvet'	Anigozanthos 'Gold Velvet'	150mm	0.5m	0.4m	300mm
DC	1765	Paroo Lily, Blue Flax-lily	Dianella caerulea	150mm	0.5 - 1m	0.5 - 2m	300mm
DCb	3535	Paroo Lily, Blue Flax-lily	Dianella caerulea 'Breeze'	150mm	0.6 - 0.7m	0.6 - 0.7m	300mm
DCj	15808	Paroo Lily, Blue Flax-lily	Dianella caerulea 'Little Jess	150mm	0.4m	0.4m	300mm
LHx	8360	Green matrush	Lomandra hystrix 'Tropic Cascade'	150mm	0.6m	0.6m	300mm
LM	5383	Giant Lily Turf	Liriope muscari 'Evergreen Giant'	150mm	0.6m	0.6m	300mm
LMi	2675	Giant Lily Turf	Liriope muscari 'Isabella'	150mm	0.15 - 0.2m	0.2 - 0.3m	200mm
LT	10828	Spiny-headed mat rush	Lomandra longifolia 'Tanika'	150mm	0.45 - 0.6m	0.6 - 0.9m	300mm
MS	6541	Weeping Grass, Meadow Rice Grass	Microlaena stipoides	150mm	0.6 - 0.75m	0.1 - 0.3m	300mm
Tt	2300	Kangaroo Grass	Themeda australis/triandra	150mm	0.9 - 1m	0.8 - 0.1m	300mm
LP	1504	European honeysuckle	Lonicera periclymenum	150mm	4 - 8m	1.5 - 2.5m	500mm
MPy	2099	Carpet Spreading Myoporum	Myoporum parvifolium 'Yareena'	150mm	0.1m	1m	500mm
TJ	1279	Star Jasmine	Trachelospermum jasminoides	150mm	0.3 - 0.6m	1 - 4m	500mm
VV	100	Ornamental Grape	Vitis vinifera	200mm	1 - 3m	1 - 3m	1500mm
WM	361	Mundi	Westringia fruticosa 'Mundi'	150mm	0.45 - 0.6m	0.9 - 1.2m	500mm
WSa	16	White Chinese Wisteria	Wisteria sinensis 'Alba'	150mm	5 - 10m	6 - 10m	as shown

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DRAWN:	ES	OCT	AH
CHECKED:	AH	OCT	AH

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Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:
STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE
Planting Plan - Area 6

DATE
OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

DRAWING NO.
3553.PP06

0 5 10 15 M

Public Communal Space Plant Schedule

ID	Qty	Common Name	Botanical Name	Size	Mature Height	Mature Spread	Native (N)
Trees							
BR	3	Illawarra Flame Tree	Brachychiton acerifolius	100Litre	15m	10m	as shown
EM	15	Grey Box	Eucalyptus moluccana	100Litre	15 - 20m	6 - 10m	as shown
ER	3	Blueberry Ash	Elaeocarpus reticulatus	100Litre	6 - 8m	4m	as shown
ET	23	Forest Red Gum	Eucalyptus tereticornis	100Litre	over 30m	6 - 12m	as shown
FH	3	Hill's Weeping Fig	Ficus Hillii	100Litre	10 - 15m	6 - 10m	as shown
JM	4	Jacaranda	Jacaranda mimosifolia	100Litre	10 - 15m	10 - 15m	as shown
LI	10	Crepe Myrtle	Lagerstroemia indica	100Litre	5 - 10m	3.5 - 6m	as shown
MG	3	Little Gem Southern Magnolia	Magnolia grandiflora 'Little Gem'	100Litre	4 - 6m	2.0 - 3.5m	as shown
MGg	3	Southern Magnolia	Magnolia grandiflora	100Litre	15m	12m	as shown
POc	8	Ornamental Pear	Pyrus calleryana 'Chanticleer'	100Litre	11m	6m	as shown
QP	3	Pin Oak	Quercus palustris	100Litre	15m	10m	as shown
SP	9	Magenta Lillypilly	Syzygium paniculatum	100Litre	3 - 15m	2 - 10m	as shown
UPl	2	Golden Elm	Ulmus parvifolia 'Lutescens'	100Litre	10m	12m	as shown
Shrubs							
ACl	165	River Wattle	Acacia cognata 'Limelight'	200mm	0.5 - 1.0m	1.0 - 1.2m	600mm
AGa	26	Century Plant	Agave attenuata	200mm	0.75 - 0.9m	0.6 - 0.9m	as shown
AMs	776	Oyster Plant	Acanthus mollis	200mm	1m	1m	600mm
AN	111	Birds Nest Fern	Asplenium Nidus	200mm	0.6 - 1m	1.5m	600mm
BAr	7	Swamp Banksia, Large-leaf Banksia	Banksia robur	200mm	0.9 - 1.5m	1.2 - 2.0m	1000mm
BS	3	Hairpin Banksia	Banksia spinulosa	200mm	2m	2m	1000mm
CAa	60	White Correa	Correa alba	200mm	0.9 - 1.5m	0.9 - 1.2m	600mm
CPm	104	Swamp Lily, River Lily	Crinum pedunculatum	200mm	1 - 3m	1.5 - 3m	600mm
DE	75	Gymea Lily	Doryanthes excelsa	200mm	1.2 - 2m	1.2 - 2.0m	600mm
HFg	46	Native frangipani	Hymenosporum flavum 'Gold Nugget'	200mm	0.5 - 0.75m	0.5 - 0.75m	400mm
LHk	234	Katie Belles	Lomandra hystrix 'Katie Belles'	200mm	1.5 - 1.8m	1.2 - 1.5m	600mm
LN	262	Sweet Bay	Laurus nobilis	200mm	3 - 5m but regular trim required to ensure 1m high max.	2.0 - 3.5m	1000mm
VO	71	Dense Fence Viburnum	Viburnum odoratissmum 'Dense Fence'	200mm	2.5m	2 m	800mm
WB	12	Blue Gem	Westringia 'Blue Gem'	200mm	1.5m	0.9 - 1.3m	600mm
Ground Covers & Grasses							
DRs	5167	Kidney Weed	Dichondra repens	150mm	0.0 - 0.3m	0.9 - 1.2m	500mm
DRsf	229	silver falls	dichondra repens 'silver falls'	150mm	0.0 - 0.3m	0.9 - 1.2m	300mm
HM	2396	False Sarsaparilla	Hardenbergia "Mini Haha"	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
HSs	910	Golden Guinea Flower, Snake Vine	Hibbertia scandens	150mm	0.5 - 3m	1 - 5m	500mm
HV	2360	False Sarsaparilla	Hardenbergia violacea	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
SHp	1331	Purple Fusion	Scaevola Humilis 'Purple Fusion'	150mm	0.2m	1.5m	500mm
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DC	1765	Paroo Lily, Blue Flax-lily	Dianella caerulea	150mm	0.5 - 1m	0.5 - 2m	300mm
DCb	3535	Paroo Lily, Blue Flax-lily	Dianella caerulea 'Breeze'	150mm	0.6 - 0.7m	0.6 - 0.7m	300mm
DCj	15808	Paroo Lily, Blue Flax-lily	Dianella caerulea Little Jess	150mm	0.4m	0.4m	300mm
LHx	8360	Green matrush	Lomandra hystrix 'Tropic Cascade'	150mm	0.6m	0.6m	300mm
LM	5383	Giant Lily Turf	Liriope muscari 'Evergreen Giant'	150mm	0.6m	0.6m	300mm
LMi	2675	Giant Lily Turf	Liriope muscari 'Isabella'	150mm	0.15 - 0.2m	0.2 - 0.3m	200mm
LT	10828	Spiny-headed mat rush	Lomandra longifolia 'Tanika'	150mm	0.45 - 0.6m	0.6 - 0.9m	300mm
MS	6541	Weeping Grass, Meadow Rice Grass	Microlaena stipoides	150mm	0.6 - 0.75m	0.1 - 0.3m	300mm
Tt	2300	Kangaroo Grass	Themeda australis/triandra	150mm	0.9 - 1m	0.8 - 0.1m	300mm
LP	1504	European honeysuckle	Lonicera periclymenum	150mm	4 - 8m	1.5 - 2.5m	500mm
MPy	2099	Carpet Spreading Myoporum	Myoporum parvifolium 'Yareena'	150mm	0.1m	1m	500mm
TJ	1279	Star Jasmine	Trachelospermum jasminoides	150mm	0.3 - 0.6m	1 - 4m	500mm
VV	100	Ornamental Grape	Vitis vinifera	200mm	1- 3m	1 - 3m	1500mm
WM	361	Mundi	Westringia fruticosa 'Mundi'	150mm	0.45 - 0.6m	0.9 - 1.2m	500mm
WSa	16	White Chinese Wisteria	Wisteria sinensis 'Alba'	150mm	5 - 10m	6 - 10m	as shown

REFER DRAWING PP05

REFER DRAWING PP06

REFER DRAWING PP08

SITE BOUNDARY

ENTRY / EXIT

ENTRY

EXISTING CLUB CA

PLANTINGS

- Turf
- Turf on podium
- Reinforced turf
- Ground cover-species refer planting schedule
- Shrubs-, species refer planting schedule
- Bushland conservation zone
- Surveyed Pimelea spicata location
- Existing tree to be protected and retained
- Existing tree to be removed (18 in total)
- Proposed tree planting (87 in total)-species refer planting schedule
- Building basement outline
- Site boundary

ISSUE	AMENDMENT	DRAWN	DATE
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PETER MORAN

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Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:

STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE

Planting Plan - Area 7

DATE

OCT

SCALE	ISSUE
1:200 @A1 1:400 @A3	6

DRAWING NO.

3553.PP07

0 5 10 15 M

REFER DRAWING PP07

Public Communal Space Plant Schedule

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Trees							
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VO	71	Dense Fence Viburnum	Viburnum odoratissmum 'Dense Fence'	200mm	2.5m	2 m	800mm
WB	12	Blue Gem	Westringia 'Blue Gem'	200mm	1.5m	0.9 - 1.3m	600mm
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VV	100	Ornamental Grape	Vitis vinifera	200mm	1- 3m	1 - 3m	1500mm
WM	361	Mundi	Westringia fruticosa 'Mundi'	150mm	0.45 - 0.6m	0.9 - 1.2m	500mm
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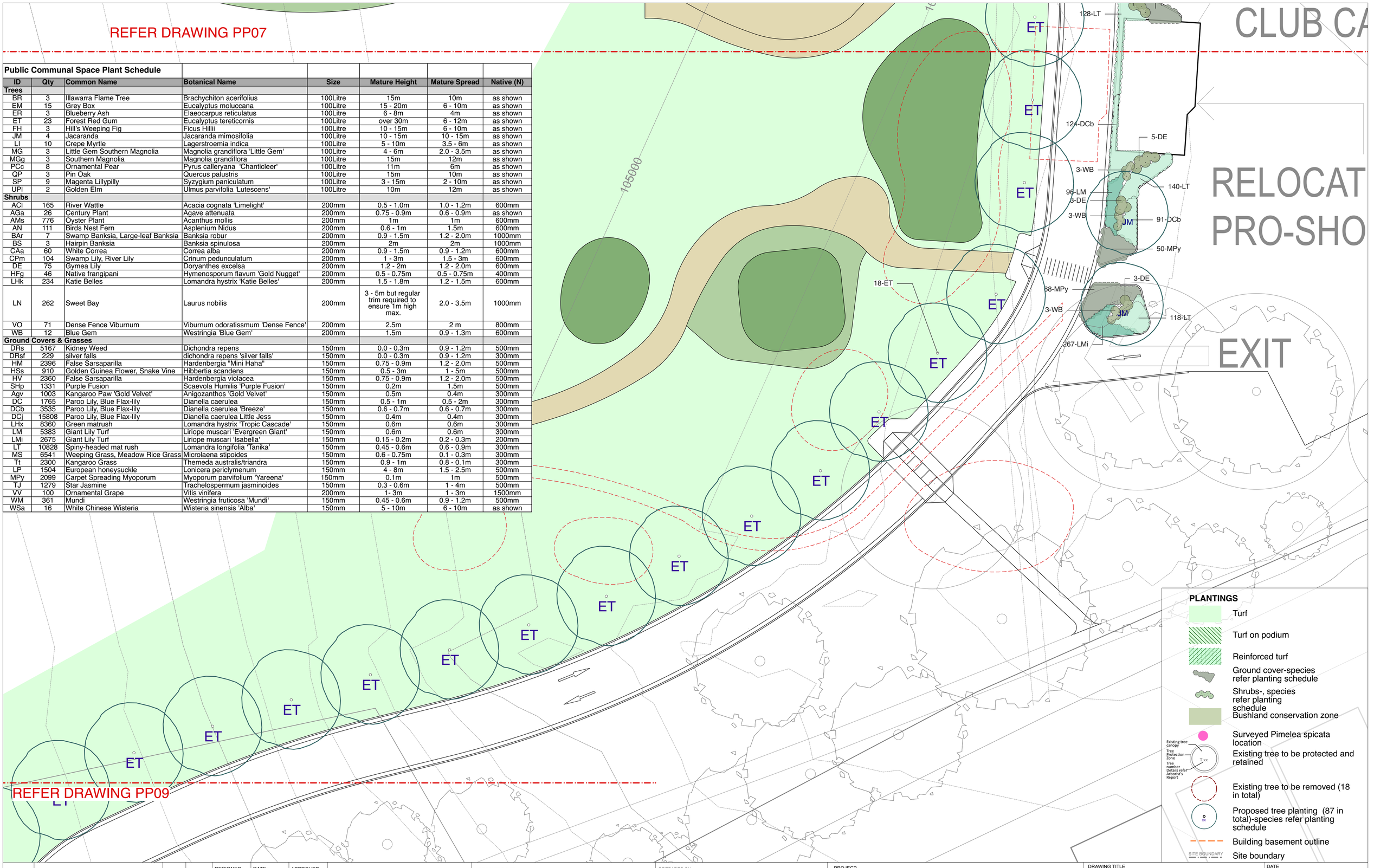

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Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:
STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE
Planting Plan - Area 8

DATE
OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

DRAWING NO.
3553.PP08

0 5 10 15 M

N

REFER DRAWING PP08



Public Communal Space Plant Schedule

ID	Qty	Common Name	Botanical Name	Size	Mature Height	Mature Spread	Native (N)
Trees							
BR	3	Illawarra Flame Tree	Brachychiton acerifolius	100Litre	15m	10m	as shown
EM	15	Grey Box	Eucalyptus moluccana	100Litre	15 - 20m	6 - 10m	as shown
ER	3	Blueberry Ash	Elaeocarpus reticulatus	100Litre	6 - 8m	4m	as shown
ET	23	Forest Red Gum	Eucalyptus tereticornis	100Litre	over 30m	6 - 12m	as shown
FH	3	Hill's Weeping Fig	Ficus Hillii	100Litre	10 - 15m	6 - 10m	as shown
JM	4	Jacaranda	Jacaranda mimosifolia	100Litre	10 - 15m	10 - 15m	as shown
LI	10	Crepe Myrtle	Lagerstroemia indica	100Litre	5 - 10m	3.5 - 6m	as shown
MG	3	Little Gem Southern Magnolia	Magnolia grandiflora 'Little Gem'	100Litre	4 - 6m	2.0 - 3.5m	as shown
MGg	3	Southern Magnolia	Magnolia grandiflora	100Litre	15m	12m	as shown
PCc	8	Ornamental Pear	Pyrus calleryana 'Chanticleer'	100Litre	11m	6m	as shown
QP	3	Pin Oak	Quercus palustris	100Litre	15m	10m	as shown
SP	9	Magenta Lillypilly	Syzygium paniculatum	100Litre	3 - 15m	2 - 10m	as shown
UPl	2	Golden Elm	Ulmus parvifolia 'Lutescens'	100Litre	10m	12m	as shown
Shrubs							
ACl	165	River Wattle	Acacia cognata 'Limelight'	200mm	0.5 - 1.0m	1.0 - 1.2m	600mm
AGa	26	Century Plant	Agave attenuata	200mm	0.75 - 0.9m	0.6 - 0.9m	as shown
AMs	776	Oyster Plant	Acanthus mollis	200mm	1m	1m	600mm
AN	111	Birds Nest Fern	Asplenium Nidus	200mm	0.6 - 1m	1.5m	600mm
BAr	7	Swamp Banksia, Large-leaf Banksia	Banksia robur	200mm	0.9 - 1.5m	1.2 - 2.0m	1000mm
BS	3	Hairpin Banksia	Banksia spinulosa	200mm	2m	2m	1000mm
CAa	60	White Correa	Correa alba	200mm	0.9 - 1.5m	0.9 - 1.2m	600mm
CPm	104	Swamp Lily, River Lily	Crinum pedunculatum	200mm	1 - 3m	1.5 - 3m	600mm
DE	75	Gymea Lily	Doryanthes excelsa	200mm	1.2 - 2m	1.2 - 2.0m	600mm
HFg	46	Native frangipani	Hymenosporum flavum 'Gold Nugget'	200mm	0.5 - 0.75m	0.5 - 0.75m	400mm
LHk	234	Katie Belles	Lomandra hystrix 'Katie Belles'	200mm	1.5 - 1.8m	1.2 - 1.5m	600mm
LN	262	Sweet Bay	Laurus nobilis	200mm	3 - 5m but regular trim required to ensure 1m high max.	2.0 - 3.5m	1000mm
VO	71	Dense Fence Viburnum	Viburnum odoratissmum 'Dense Fence'	200mm	2.5m	2 m	800mm
WB	12	Blue Gem	Westringia 'Blue Gem'	200mm	1.5m	0.9 - 1.3m	600mm
Ground Covers & Grasses							
DRs	5167	Kidney Weed	Dichondra repens	150mm	0.0 - 0.3m	0.9 - 1.2m	500mm
DRsf	229	silver falls	dichondra repens 'silver falls'	150mm	0.0 - 0.3m	0.9 - 1.2m	300mm
HM	2396	False Sarsaparilla	Hardenbergia "Mini Haha"	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
HSs	910	Golden Guinea Flower, Snake Vine	Hibbertia scandens	150mm	0.5 - 3m	1 - 5m	500mm
HV	2360	False Sarsaparilla	Hardenbergia violacea	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
SHp	1331	Purple Fusion	Scaevola Humilis 'Purple Fusion'	150mm	0.2m	1.5m	500mm
Agv	1003	Kangaroo Paw 'Gold Velvet'	Anigozanthos 'Gold Velvet'	150mm	0.5m	0.4m	300mm
DC	1765	Paroo Lily, Blue Flax-lily	Dianella caerulea	150mm	0.5 - 1m	0.5 - 2m	300mm
DCb	3535	Paroo Lily, Blue Flax-lily	Dianella caerulea 'Breeze'	150mm	0.6 - 0.7m	0.6 - 0.7m	300mm
DCj	15808	Paroo Lily, Blue Flax-lily	Dianella caerulea Little Jess	150mm	0.4m	0.4m	300mm
LHx	8360	Green matrush	Lomandra hystrix 'Tropic Cascade'	150mm	0.6m	0.6m	300mm
LM	5383	Giant Lily Turf	Liriope muscari 'Evergreen Giant'	150mm	0.6m	0.6m	300mm
LMi	2675	Giant Lily Turf	Liriope muscari 'Isabella'	150mm	0.15 - 0.2m	0.2 - 0.3m	200mm
LT	10828	Spiny-headed mat rush	Lomandra longifolia 'Tanika'	150mm	0.45 - 0.6m	0.6 - 0.9m	300mm
MS	6541	Weeping Grass, Meadow Rice Grass	Microlaena stipoides	150mm	0.6 - 0.75m	0.1 - 0.3m	300mm
Tt	2300	Kangaroo Grass	Themeda australis/triandra	150mm	0.9 - 1m	0.8 - 0.1m	300mm
LP	1504	European honeysuckle	Lonicera periclymenum	150mm	4 - 8m	1.5 - 2.5m	500mm
MPy	2099	Carpet Spreading Myoporum	Myoporum parvifolium 'Yareena'	150mm	0.1m	1m	500mm
TJ	1279	Star Jasmine	Trachelospermum jasminoides	150mm	0.3 - 0.6m	1 - 4m	500mm
VV	100	Ornamental Grape	Vitis vinifera	200mm	1- 3m	1 - 3m	1500mm
WM	361	Mundi	Westringia fruticosa 'Mundi'	150mm	0.45 - 0.6m	0.9 - 1.2m	500mm
WSa	16	White Chinese Wisteria	Wisteria sinensis 'Alba'	150mm	5 - 10m	6 - 10m	as shown

ISSUE	AMENDMENT	DRAWN	DATE
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PROJECT:

STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE

Planting Plan - Area 9

0 5 10 15 M

N

DATE
OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

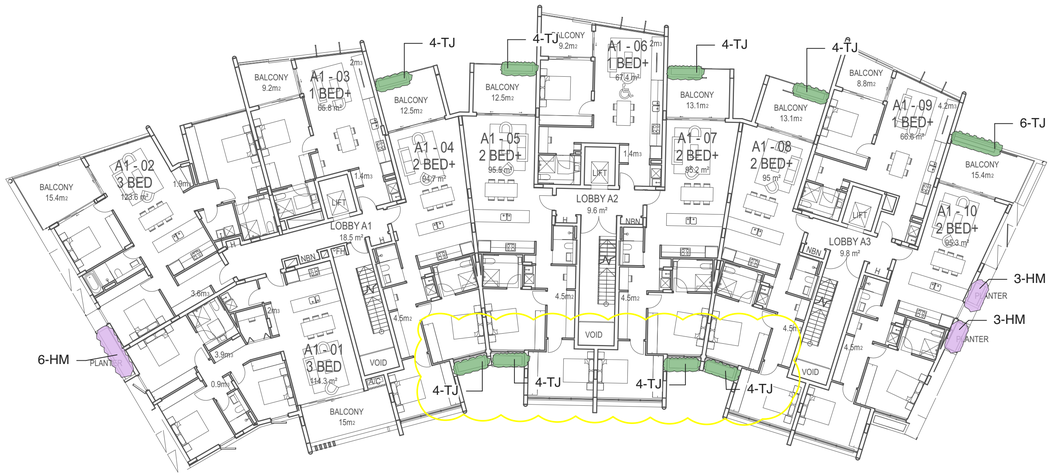
DRAWING NO.
3553.PP09

PLANTINGS

Ground cover-species
refer planting schedule

Building A Facade Planter Plant Schedule

ID	Qty	Common Name	Botanical Name	Size	Mature Height	Mature Spread	Native (N)
Trees							
Shrubs							
Ground Covers & Grasses							
HM	24	False Sarsaparilla	Hardenbergia "Mini Haha"	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
TJ	76	Star Jasmine	Trachelospermum jasminoides	150mm	0.3 - 0.6m	1 - 4m	500mm





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PROJECT:

STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE

Planting Plan
- Building A Facade Planters

0 5 10 15 M

DATE
OCT

SCALE
1:200 @A1
1:400 @A3

ISSUE
6

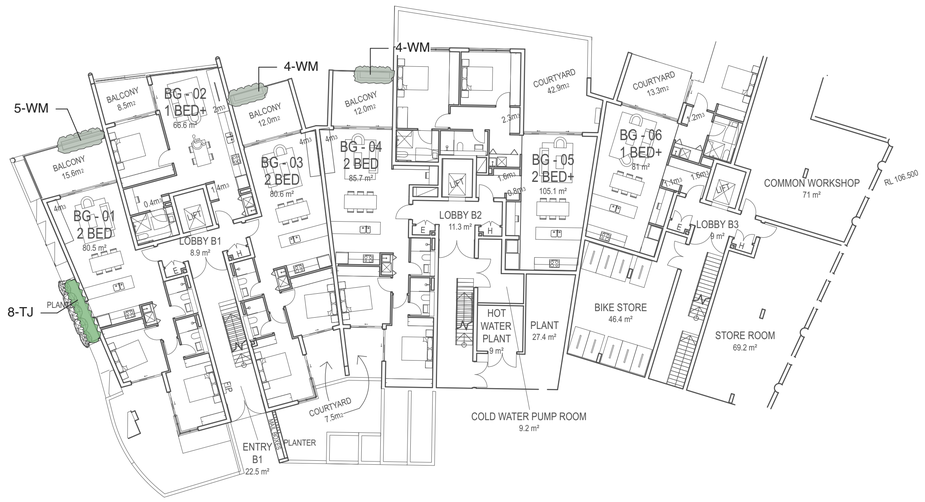
DRAWING NO.
3553.PP10

Building B Facade Planter Plant Schedule

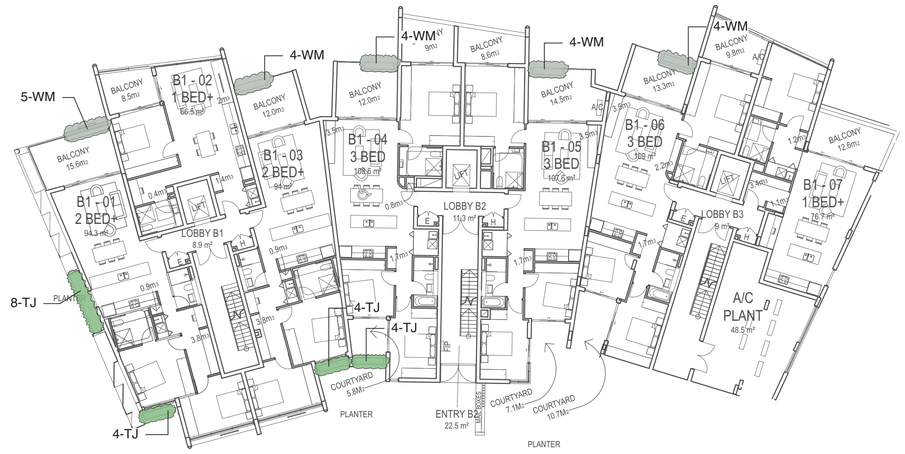
ID	Qty	Common Name	Botanical Name	Size	Mature Height	Mature Spread	Native (N)
Trees							
Shrubs							
Ground Covers & Grasses							
TJ	78	Star Jasmine	Trachelospermum jasminoides	150mm	0.3 - 0.6m	1 - 4m	500mm
WM	76	Mundi	Westringia fruticosa 'Mundi'	150mm	0.45 - 0.6m	0.9 - 1.2m	500mm

PLANTINGS

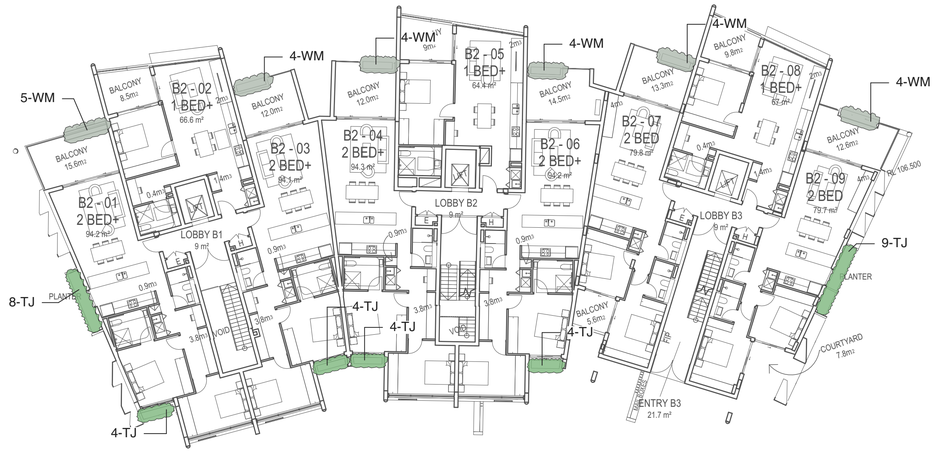
Ground cover-species
refer planting schedule



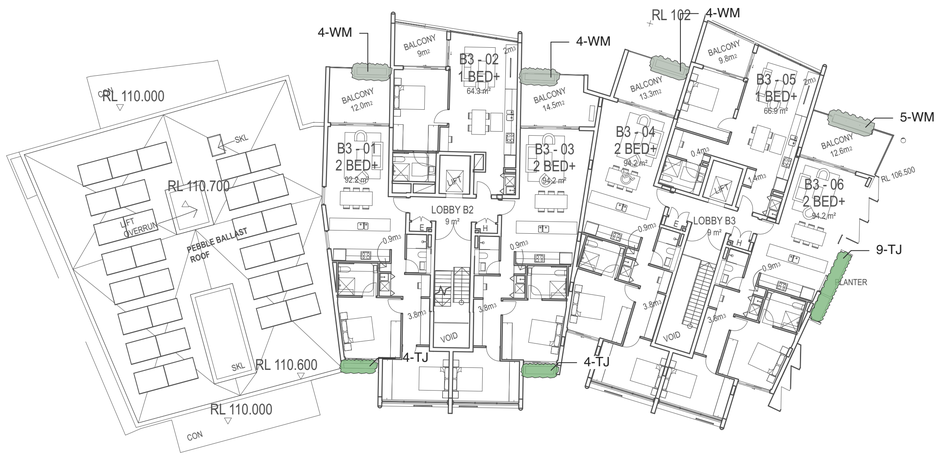
BUILDING B - GROUND FLOOR



BUILDING B - LEVEL 1



BUILDING B - LEVEL 2



BUILDING B - LEVEL 3

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AUSTRALIA 2567

DRAWING TITLE

Planting Plan
- Building B Facade Planters

0 5 10 15 M

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SCALE
1:200 @A1
1:400 @A3

ISSUE
6

DRAWING NO.
3553.PP11

PLANTINGS

Ground cover-species
refer planting schedule

Building C&D Facade Planter Plant Schedule							
ID	**Qty**	**Common Name**	**Botanical Name**	**Size**	**Mature Height**	**Mature Spread**	**Native (N)**
Trees							
Shrubs							
Ground Covers & Grasses							
HM	45	False Sarsaparilla	Hardenbergia "Mini Haha"	150mm	0.75 - 0.9m	1.2 - 2.0m	500mm
HSs	195	Golden Guinea Flower, Snake Vine	Hibbertia scandens	150mm	0.5 - 3m	1 - 5m	500mm



TYPICAL FACADE PLANTER BUILDING C & D (GROUND FLOOR)







TYPICAL FACADE PLANTER BUILDING C & D (LEVEL 1)





TYPICAL FACADE PLANTER BUILDING C & D (LEVEL 2)

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Planting Plan
- Building C&D Facade Planters

0 5 10 15 M

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SCALE
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ISSUE
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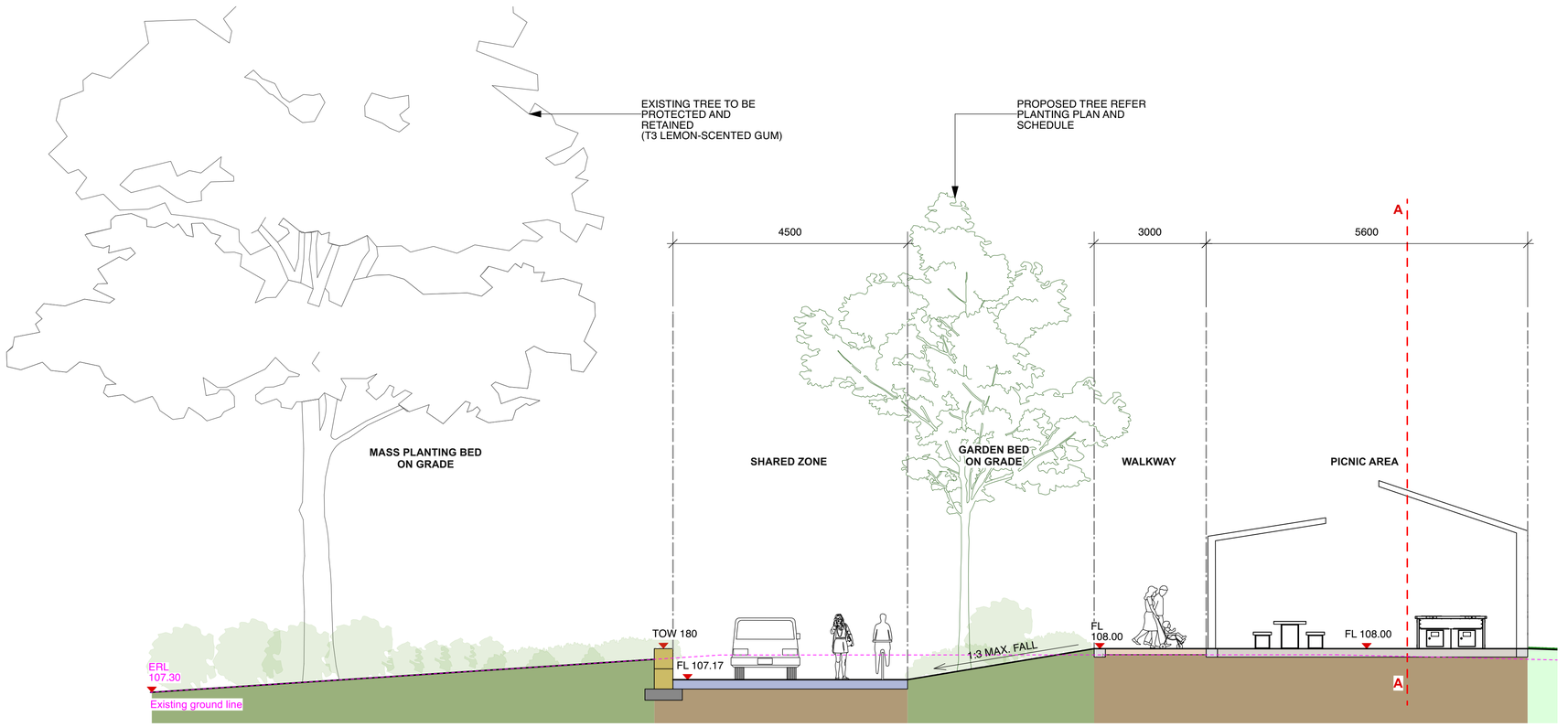
DRAWING NO.
3553.PP12



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AUSTRALIA 2567

DRAWING TITLE

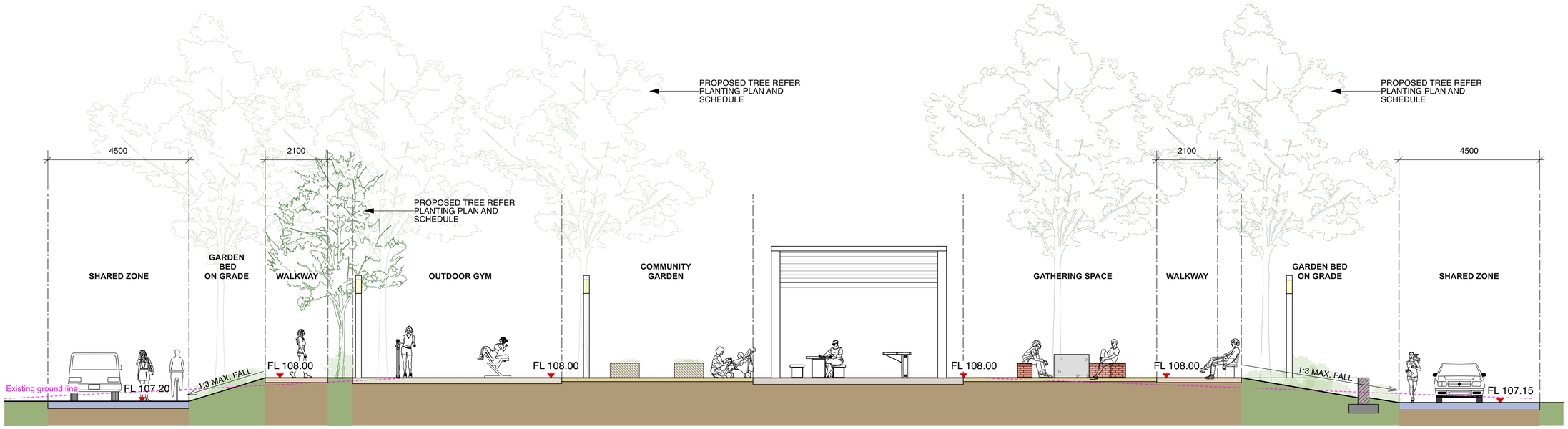
Detailed Sections - sheet 1

DATE
OCT

SCALE
as shown @A1

ISSUE
6

DRAWING NO.
3553.DS01



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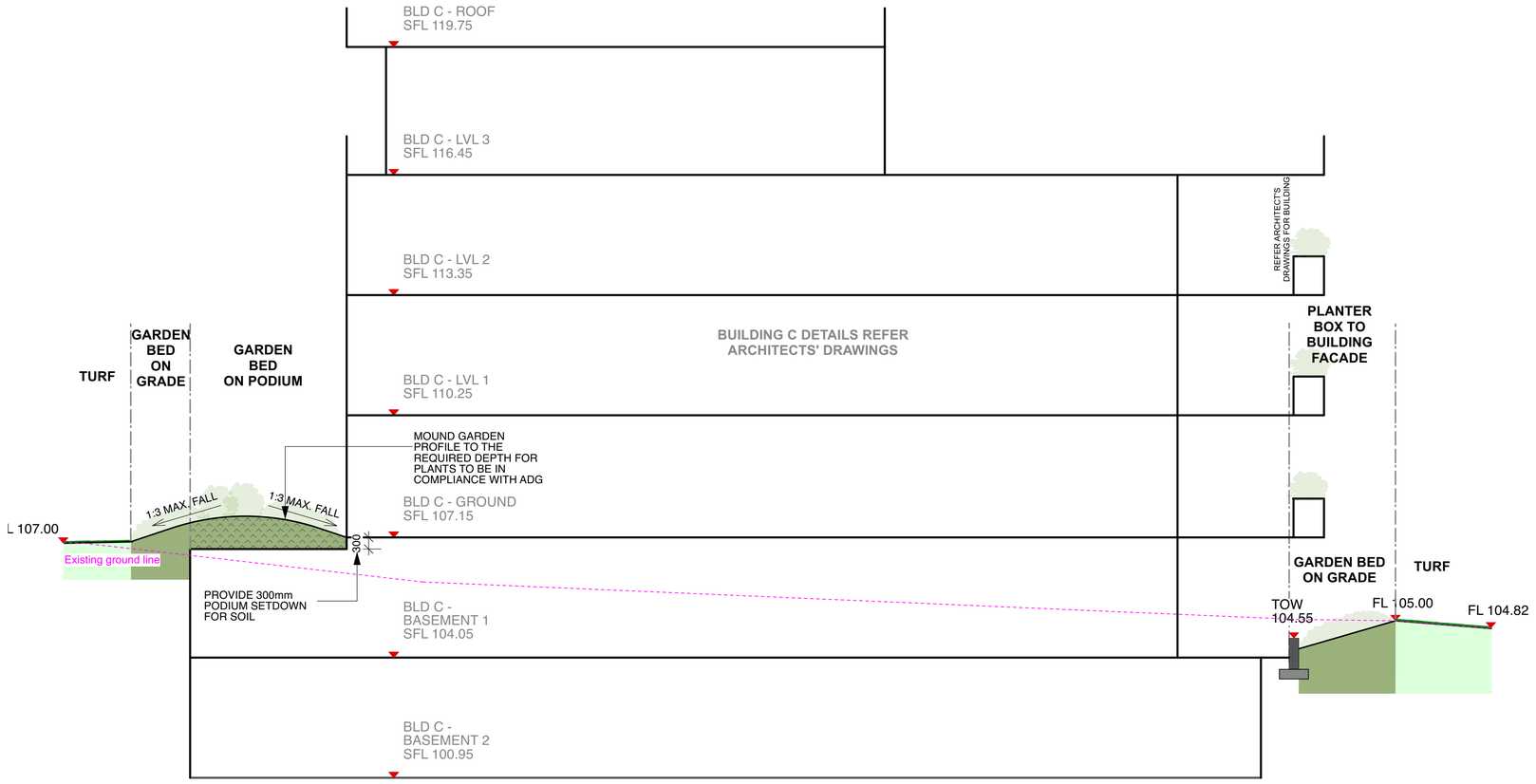

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ISSUE	AMENDMENT	DRAWN	DATE
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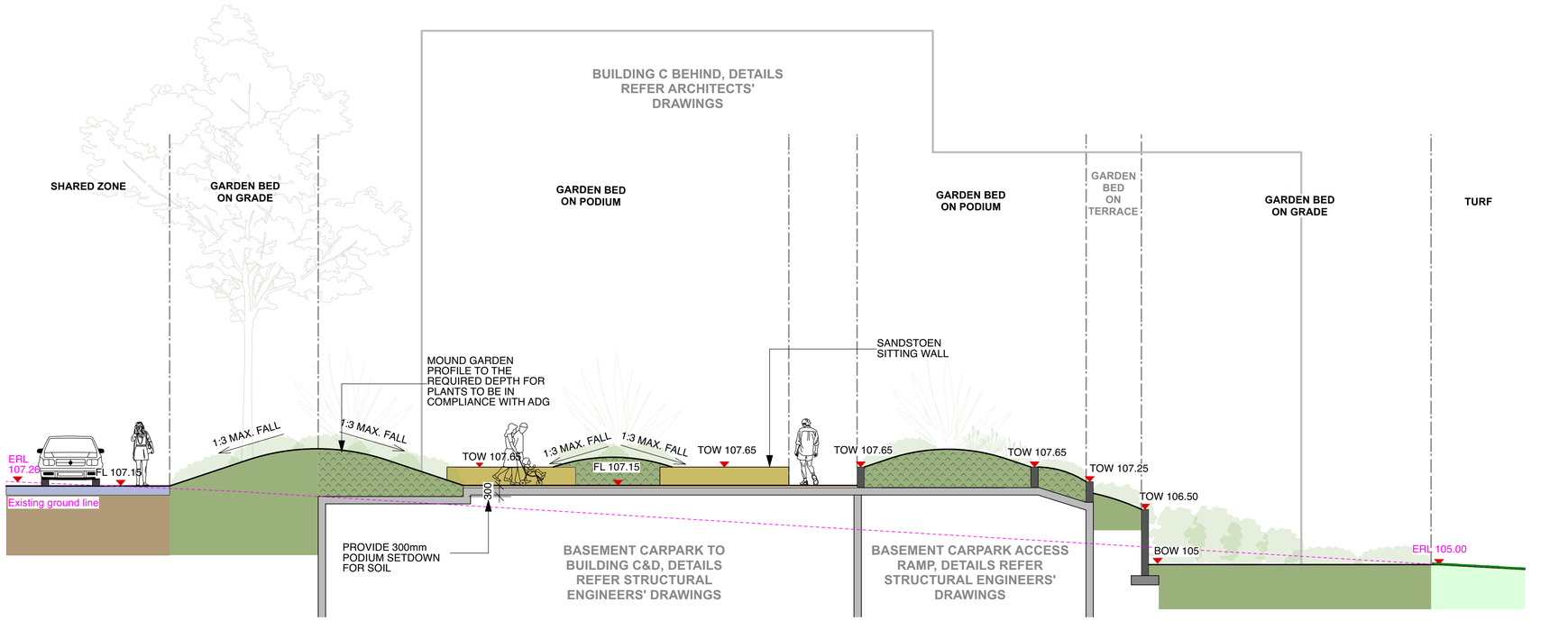
DRAWING TITLE
Detailed Sections - sheet 2

DATE
OCT

SCALE: as shown @A1
ISSUE: 6

DRAWING NO.
3553.DS02



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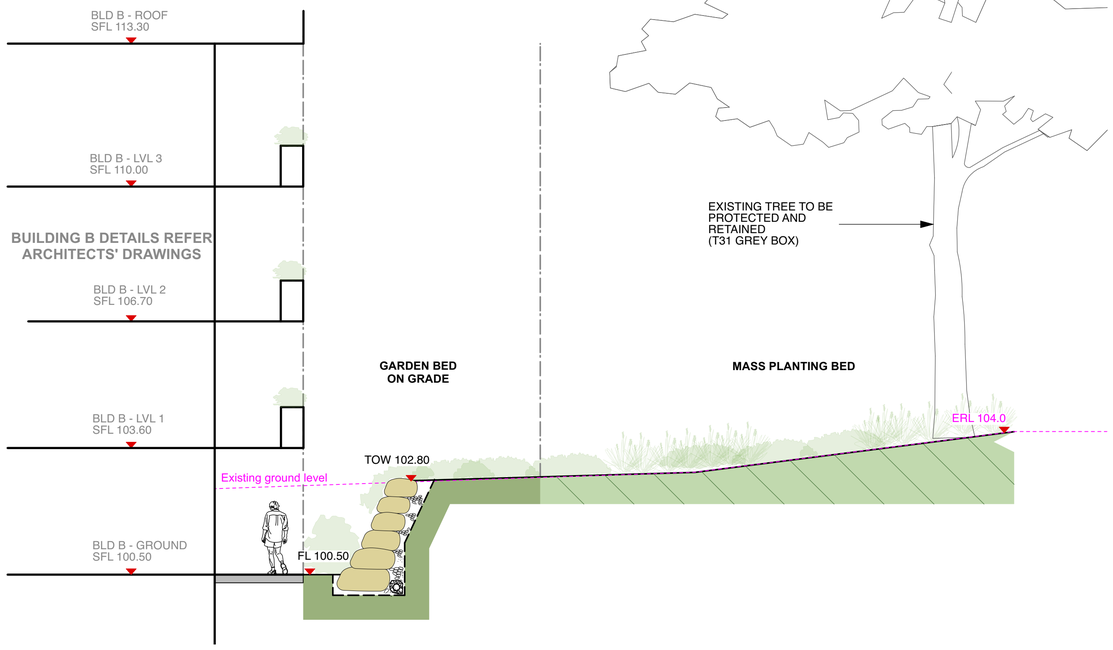

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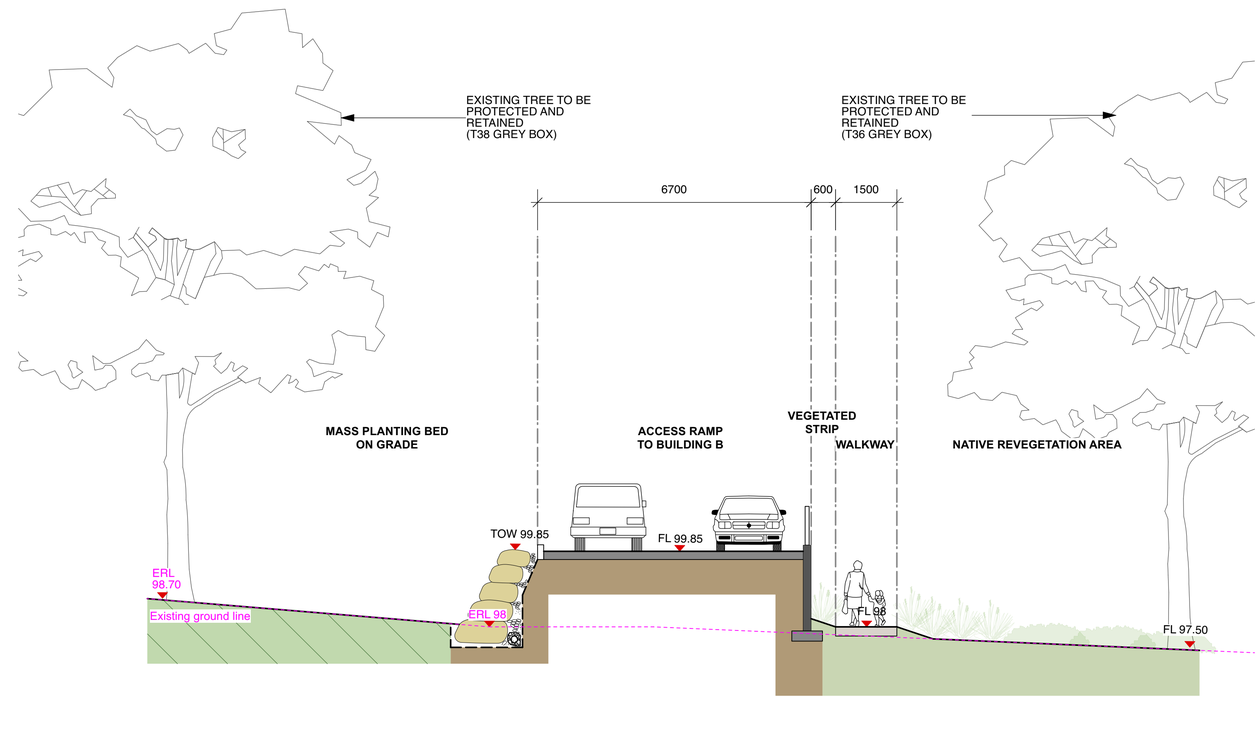

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ISSUE	AMENDMENT	DRAWN	DATE
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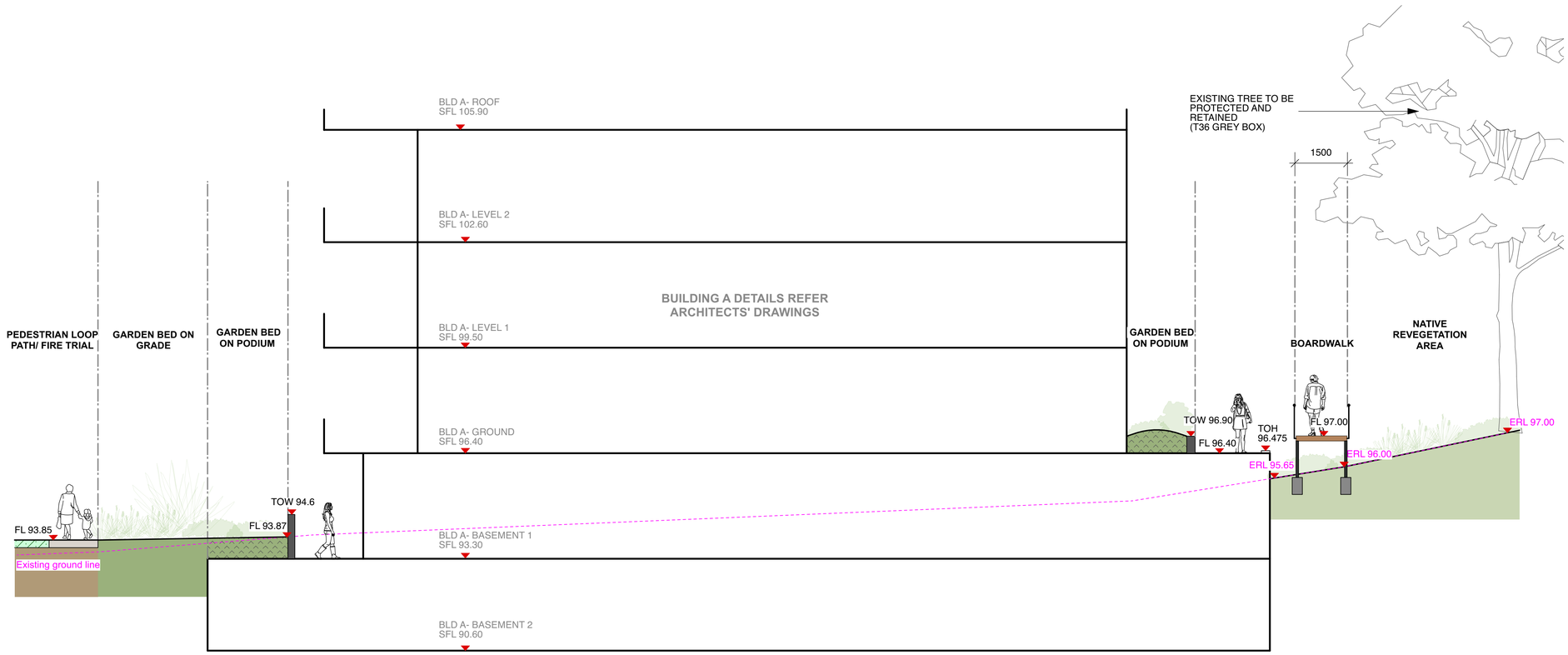

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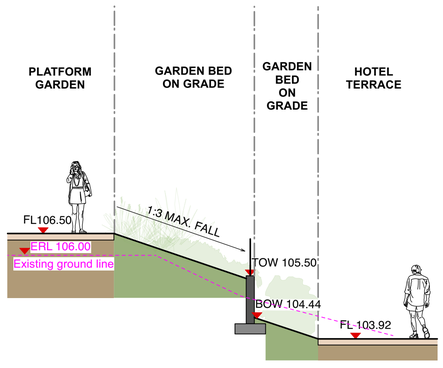

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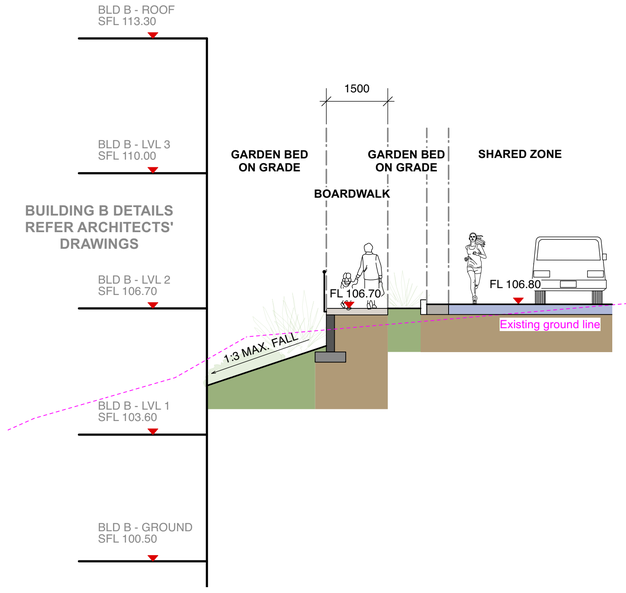

3 Section 9
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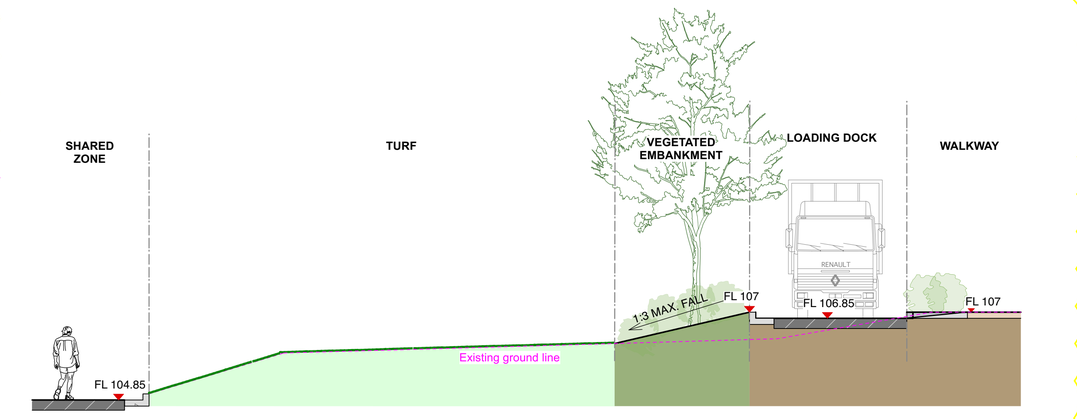

4 Section 10
1:75

ISSUE	AMENDMENT	DRAWN	DATE
6	Reissue For DA	ES	16.10.24
5	Reissue For DA	ES	23.08.24
4	For DA	ES	10.01.23
3	For Coordination	ES	04.03.22
2	Preliminary	ES	17.12.21
1	Preliminary	ES	17.11.21

DESIGNED:	DATE:	APPROVED:
ES	OCT	AH
DRAWN:	DATE:	APPROVED:
ES	OCT	AH
CHECKED:	DATE:	APPROVED:
AH	OCT	AH

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PETER MORAN

PREPARED BY:

ep environmental partnership
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Email: admin@epnsw.com.au
ABN 53 088 175 437

PROJECT:

STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE

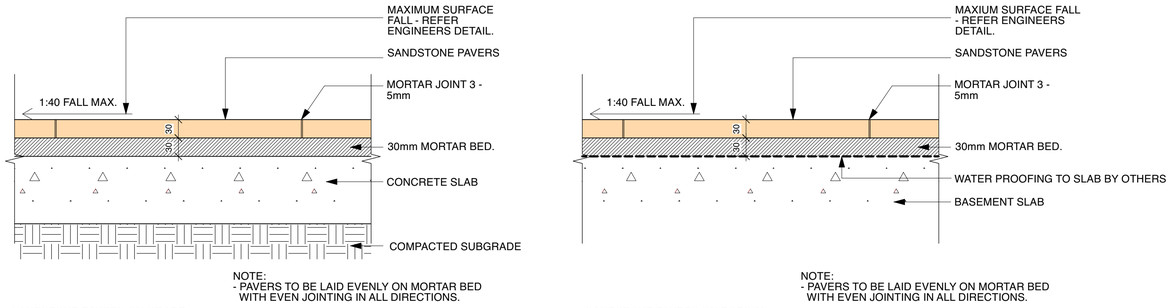
Detailed Sections - sheet 4

DATE
OCT

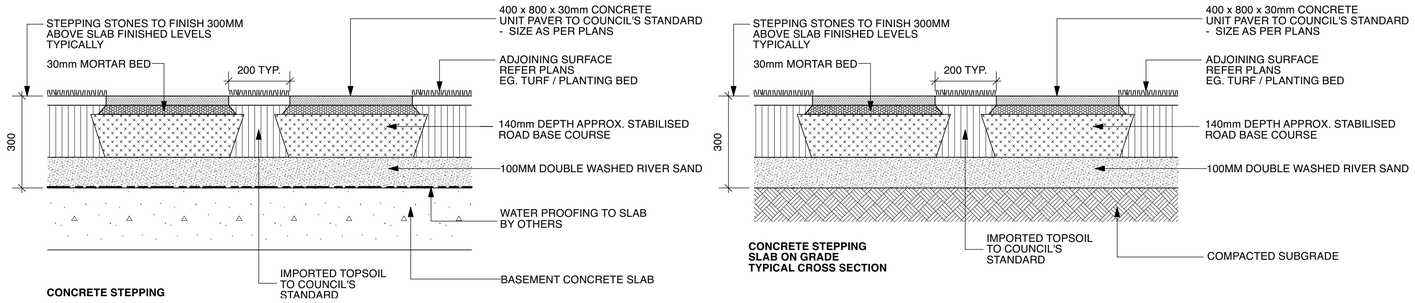
SCALE
as shown @A1

ISSUE
6

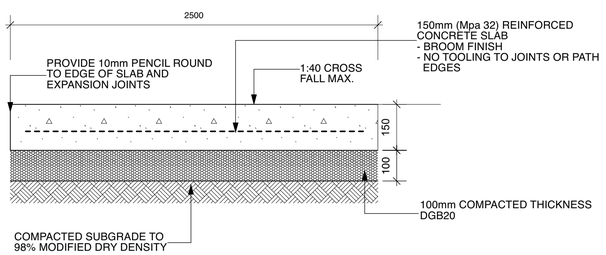
DRAWING NO.
3553.DS04

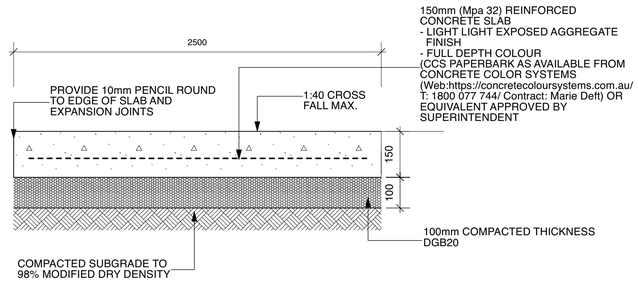


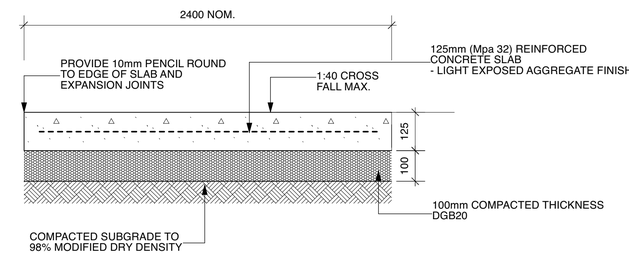
1 Sandstone Pavement
1:5



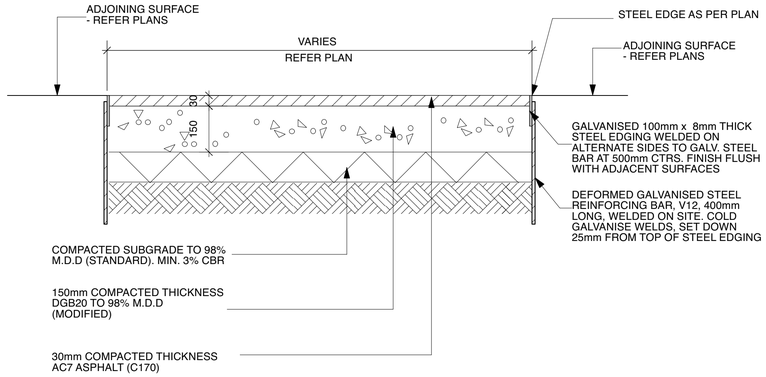
2 Concrete Stepping Slab
1:10



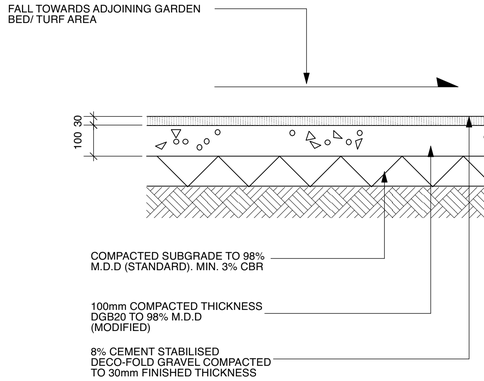




3 Concrete Pavement
1:10



4 Asphalt Pavement
1:10



5 Stablised Gravel Pavement
1:10

ISSUE	AMENDMENT	DRAWN	DATE
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ES	OCT	AH
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PROJECT:
STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

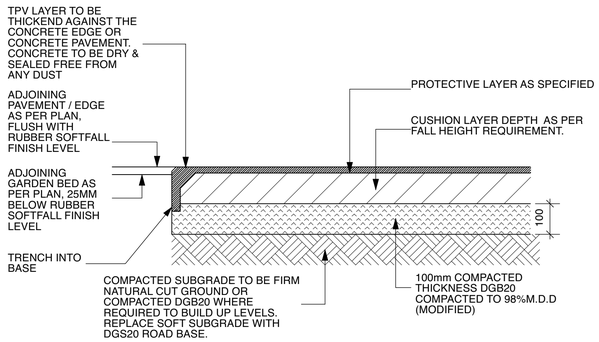
DRAWING TITLE
Landscape Details - sheet 1

DATE
OCT

SCALE
as shown @A1

ISSUE
6

DRAWING NO.
3553.DS01

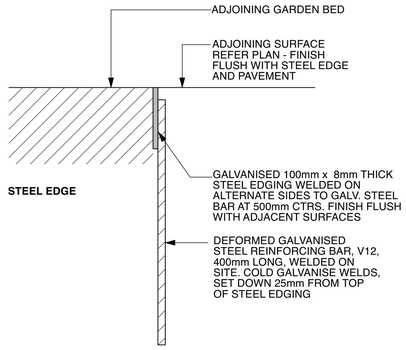


NOTE:

SOFTFALL DEPTH FOR PROTECTIVE LAYER AND CUSHION LAYER - CONTRACTOR TO COORDINATE AND CONFIRM REQUIRED DEPTHS FOR FALL ZONES OF INDIVIDUAL PLAYGROUND PIECES TO MEET APPLICABLE STANDARDS.
CONTRACTOR TO PROVIDE SHOP DRAWINGS OF SOFTFALL PROFILE INCLUDING ANY VARIATIONS IN DEPTH FOR SPECIFIC EQUIPMENT OR AT DIFFERENT EDGE CONDITIONS FOR SUPERINTENDEN'S APPROVAL PRIPOR TO COMMENCEMENT OF WORKS

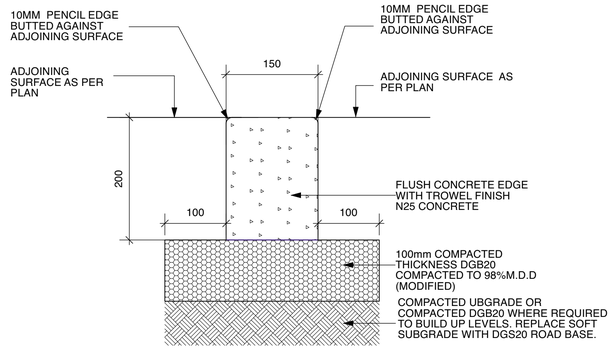
TPV ROSEHILL SOFTFALL RUBBER
RUBBER SOFTFALL TO CONCRETE EDGE OR PAVEMENT OR GARDEN BED

1 Rubber Softfall
1:10



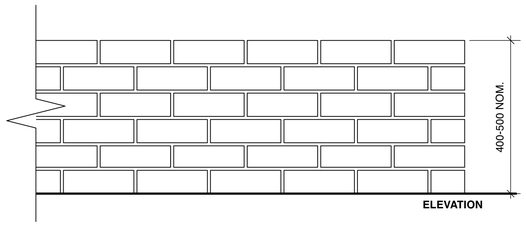
STEEL EDGE

2 Steel Edge
1:5

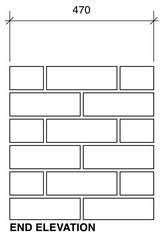


FLUSH CONCRETE EDGE

3 Flush Concrete Edge
1:5



ELEVATION



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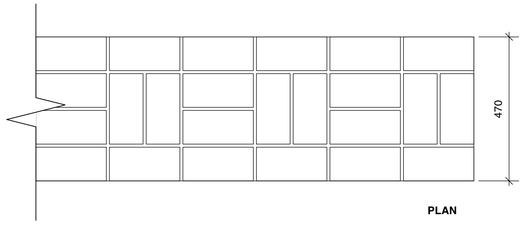
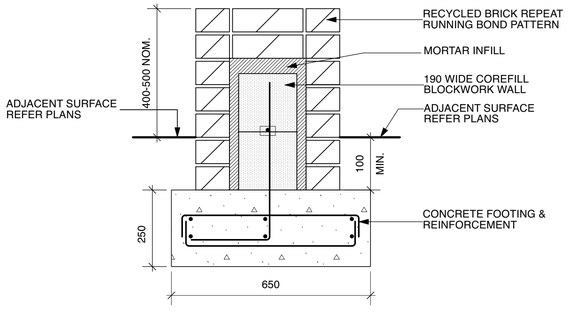
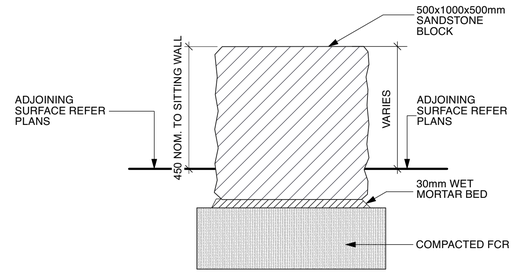


PLAN

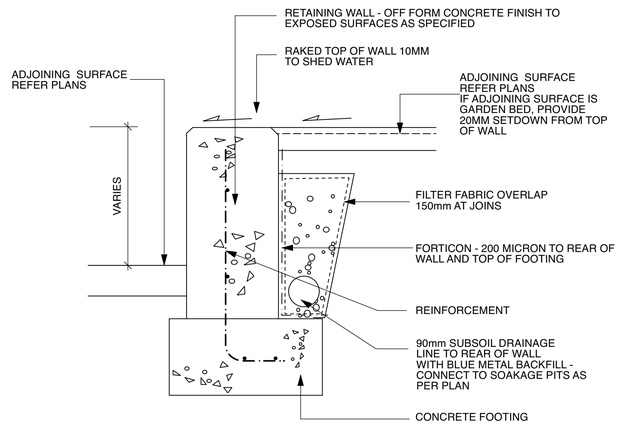


SECTION

4 Recycled Sandstock Brick Sitting Wall
1:10



5 Sandstone Block Wall
1:10



6 Off Form Concrete Retaining Wall
1:10

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DESIGNED: ES	DATE: OCT	APPROVED: AH
DRAWN: ES	DATE: OCT	APPROVED: AH
CHECKED: AH	DATE: OCT	APPROVED: AH

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PROJECT:

STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW
AUSTRALIA 2567

DRAWING TITLE

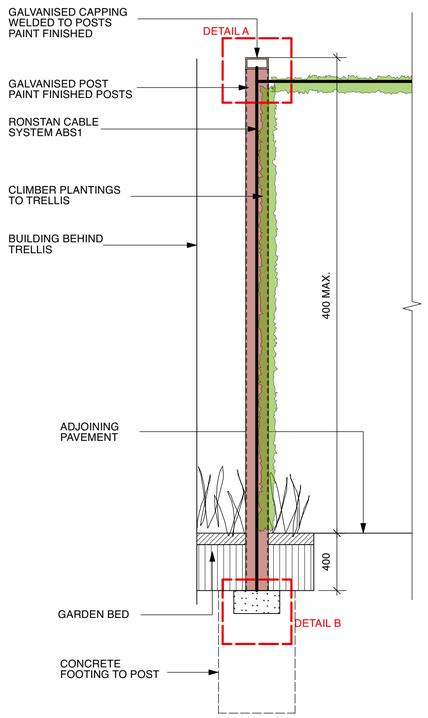
Landscape Details - sheet 2

DATE: **OCT**

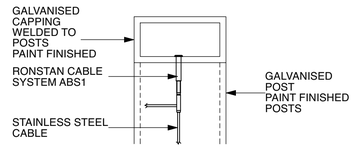
SCALE: as shown @A1

ISSUE: 6

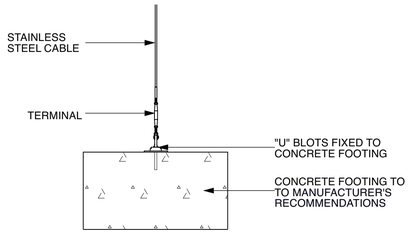
DRAWING NO.: 3553.DS02



1 Trellis
1:20



DETAIL A NOT ON SCALE



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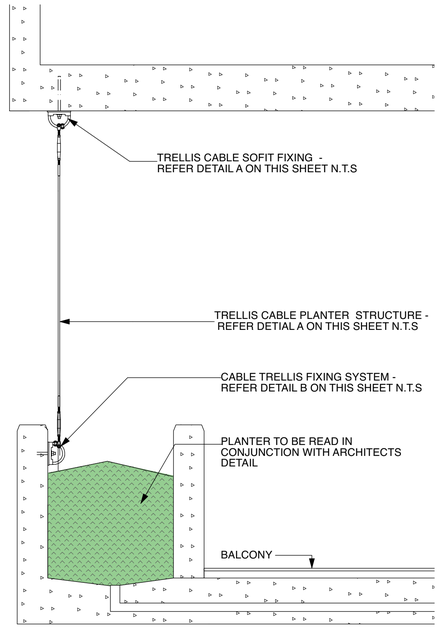
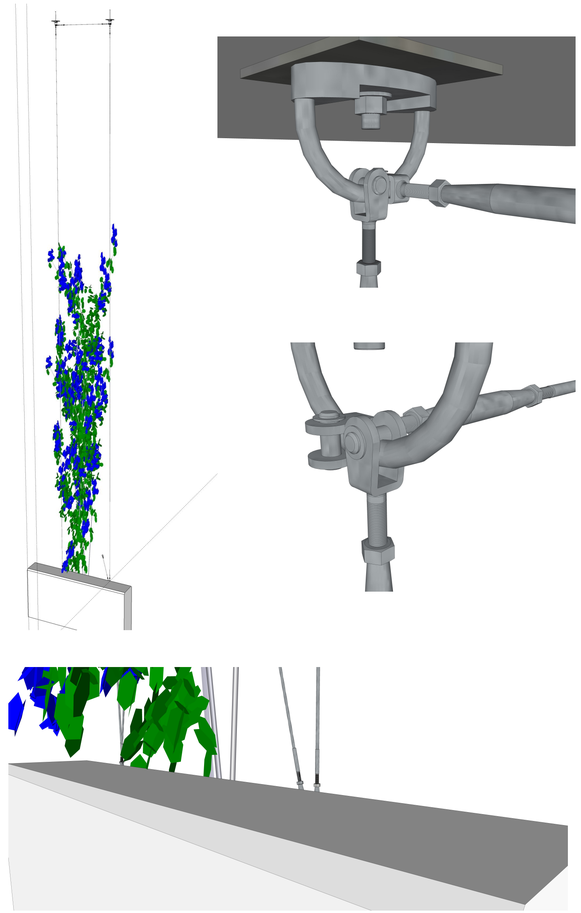
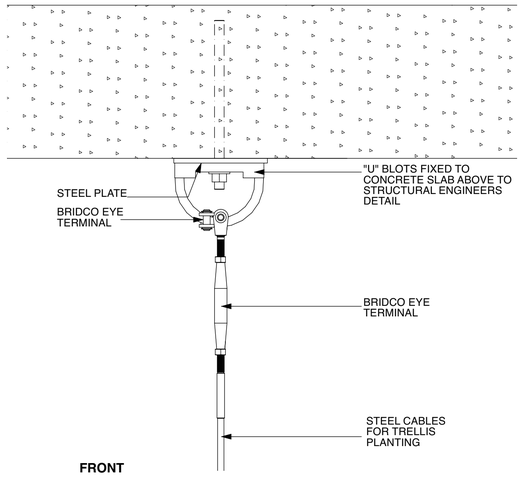


TRELLIS PLANTING STRUCTURE DIAGRAM - SECTION 1:20

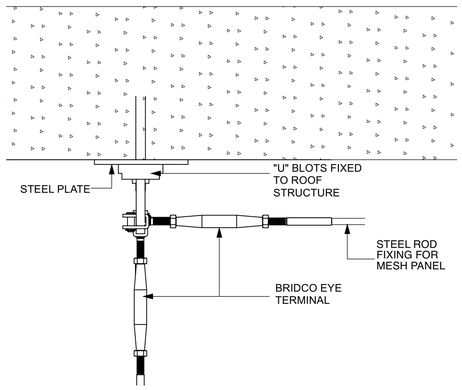


INDICATIVE TRELLIS PLANTING STRUCTURE PERSPECTIVES



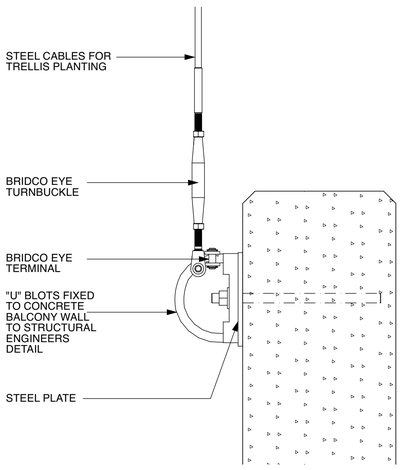
FRONT

TRELLIS CABLE SOFIT FIXING - DETAIL A N.T.S



SIDE

TRELLIS CABLE SOFIT FIXING - DETAIL A N.T.S



TRELLIS CABLE PLANTER STRUCTURE - DETIAL B N.T.S

2 Indicative Facade and Stainless Steel Trellis Detail
as shown

ISSUE	AMENDMENT	DRAWN	DATE
6	Reissue For DA	ES	16.10.24
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AUSTRALIA 2567

DRAWING TITLE

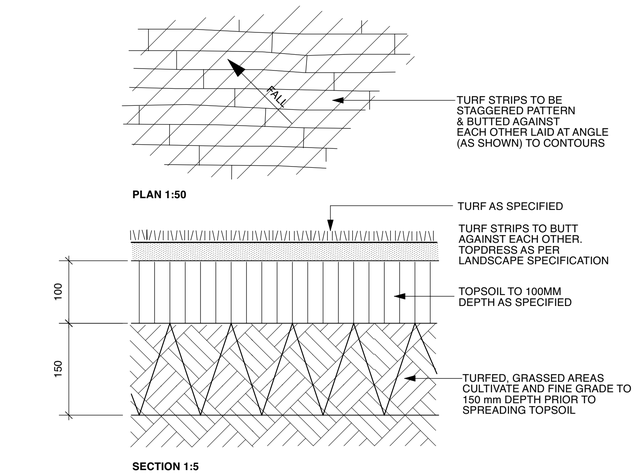
Landscape Details - sheet 3

DATE
OCT

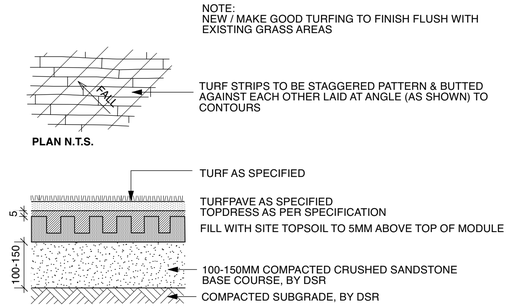
SCALE
as shown @A1

ISSUE
6

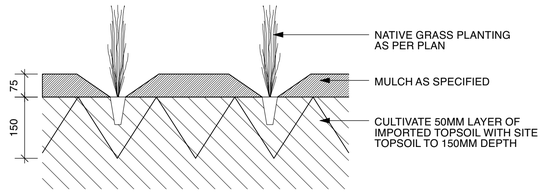
DRAWING NO.
3553.DS03



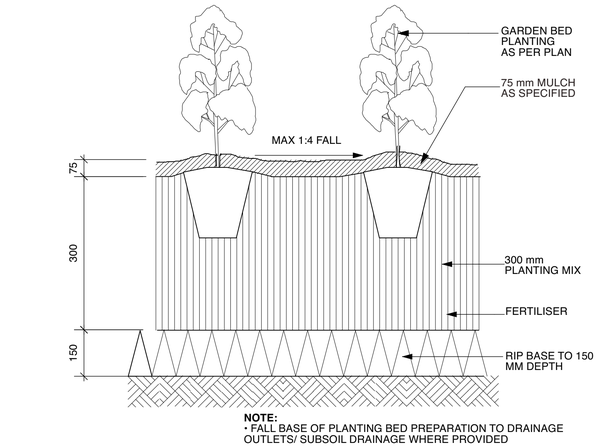
1 Turf
scale as shown



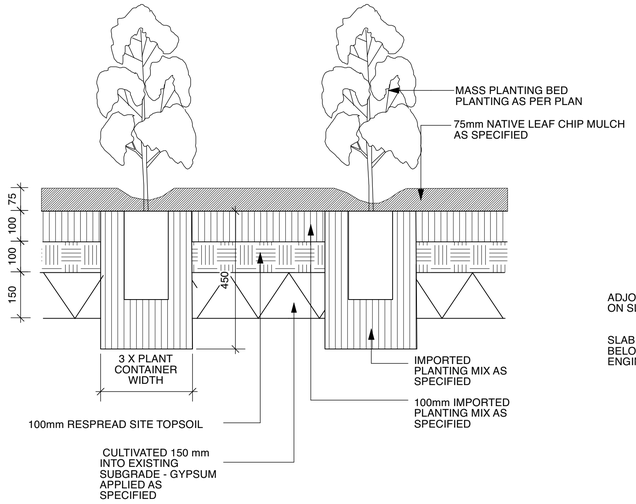
2 Turfpave
scale 1:10



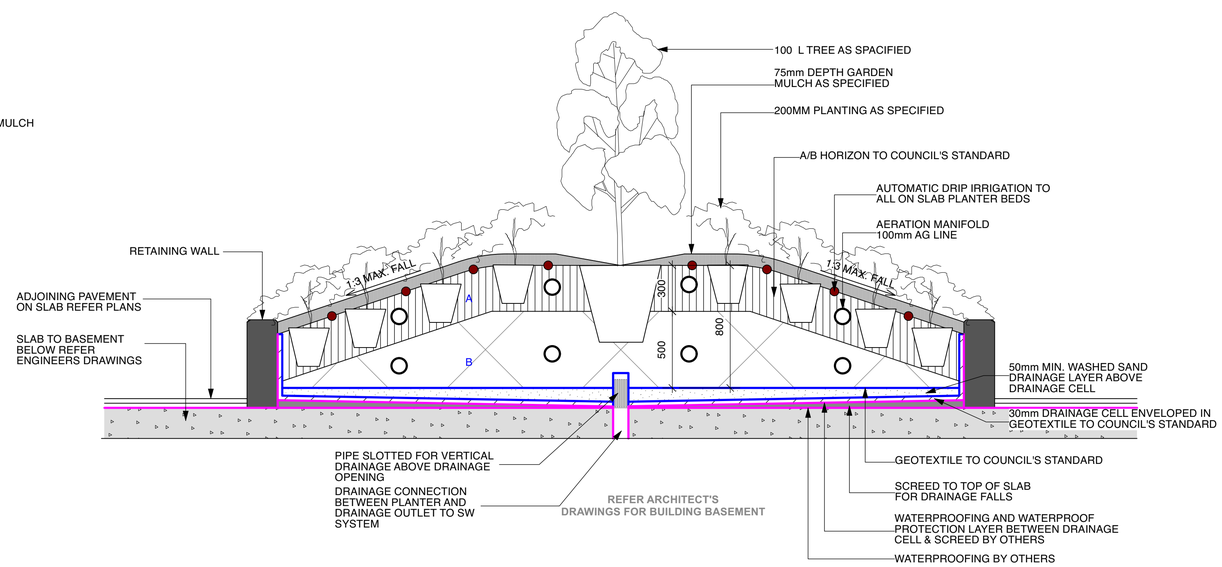
3 Native Revegetation
scale 1:10



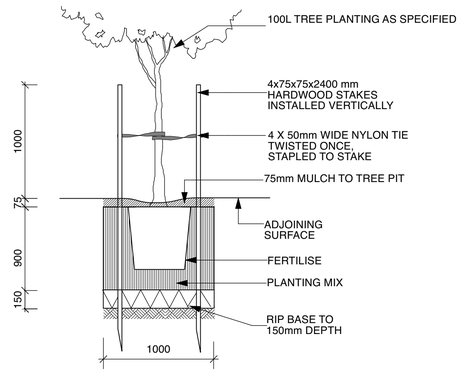
4 Garden Bed
scale 1:10



5 Mass Planting Bed
scale 1:10



6 Garden Bed on Podium
scale 1:20



7 100L Tree Planting on Grade
scale 1:25

ISSUE	AMENDMENT	DRAWN	DATE
6	Reissue For DA	ES	16.10.24
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PROJECT:
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AUSTRALIA 2567

DRAWING TITLE
Landscape Details - sheet 4

DATE
OCT

SCALE
as shown @A1

ISSUE
6

DRAWING NO.
3553.DS04

STUDLEY PARK

52 LODGES ROAD, NARELLAN NSW 2567



LOCALITY PLAN
SCALE 1:2000

DRAWING LIST

No.	DRAWING TITLE
C001	COVER SHEET AND LOCALITY PLAN
C002	GENERAL NOTES AND LEGEND
C050	TYPICAL STORMWATER DETAILS - SHEET 1
C051	TYPICAL STORMWATER DETAILS - SHEET 2
C052	TYPICAL STORMWATER DETAILS - SHEET 3
C053	TYPICAL STORMWATER DETAILS - SHEET 4
C054	TYPICAL STORMWATER DETAILS - SHEET 5
C055	TYPICAL CIVIL DETAILS
C060	TYPICAL EROSION AND SEDIMENT CONTROL DETAILS - SH1
C061	TYPICAL EROSION AND SEDIMENT CONTROL DETAILS - SH2
C062	TYPICAL WSUD DETAILS
C070	STORMWATER CATCHMENT PLAN
C080	BULK EARTHWORKS PLAN
C090	BULK EARTHWORKS SECTIONS - SHEET 1
C091	BULK EARTHWORKS SECTIONS - SHEET 2
C092	BULK EARTHWORKS SECTIONS - SHEET 3
C100	SITE PLAN - OVERALL
C110	GENERAL ARRANGEMENT PLAN - SHEET 1
C111	GENERAL ARRANGEMENT PLAN - SHEET 2
C112	GENERAL ARRANGEMENT PLAN - SHEET 3
C113	GENERAL ARRANGEMENT PLAN - SHEET 4
C114	GENERAL ARRANGEMENT PLAN - SHEET 5
C115	GENERAL ARRANGEMENT PLAN - SHEET 6
C116	GENERAL ARRANGEMENT PLAN - SHEET 7
C117	GENERAL ARRANGEMENT PLAN - SHEET 8
C118	GENERAL ARRANGEMENT PLAN - SHEET 9
C150	SIGNAGE AND LINE MARKING PLAN - SHEET 1
C151	SIGNAGE AND LINE MARKING PLAN - SHEET 2
C152	SIGNAGE AND LINE MARKING PLAN - SHEET 3
C153	SIGNAGE AND LINE MARKING PLAN - SHEET 4
C154	SIGNAGE AND LINE MARKING PLAN - SHEET 5
C155	SIGNAGE AND LINE MARKING PLAN - SHEET 6
C156	SIGNAGE AND LINE MARKING PLAN - SHEET 7
C157	SIGNAGE AND LINE MARKING PLAN - SHEET 8
C170	SIGHT DISTANCE PLAN - ACCESS ROAD INTERSECTION WITH LODGES ROAD
C200	LONGITUDINAL SECTONS - SHEET 1
C201	LONGITUDINAL SECTONS - SHEET 2
C202	LONGITUDINAL SECTONS - SHEET 3
C203	LONGITUDINAL SECTONS - SHEET 4
C205	CROSS SECTIONS - SHEET 1
C206	CROSS SECTIONS - SHEET 2
C207	CROSS SECTIONS - SHEET 3
C208	CROSS SECTIONS - SHEET 4
C209	CROSS SECTIONS - SHEET 5
C210	CROSS SECTIONS - SHEET 6
C211	CROSS SECTIONS - SHEET 7
C212	CROSS SECTIONS - SHEET 8
C213	CROSS SECTIONS - SHEET 9
C300	STORMWATER PLAN - SHEET 1
C301	STORMWATER PLAN - SHEET 2
C302	STORMWATER PLAN - SHEET 3
C303	STORMWATER PLAN - SHEET 4
C304	STORMWATER PLAN - SHEET 5
C305	STORMWATER PLAN - SHEET 6
C306	STORMWATER PLAN - SHEET 7
C307	STORMWATER PLAN - SHEET 8
C308	STORMWATER PLAN - SHEET 9
C400	BUILDING A - BASEMENT STORMWATER PLAN
C500	BUILDING B - BASEMENT STORMWATER PLAN
C600	BUILDING C & D - BASEMENT STORMWATER PLAN
C700	HOTEL - BASEMENT STORMWATER PLAN
C701	HOTEL - LOWER GROUND STORMWATER PLAN
C800	EROSION AND SEDIMENT CONTROL PLAN NORTH
C801	EROSION AND SEDIMENT CONTROL PLAN SOUTH

LOCALITY PLAN LEGEND

- APPROXIMATE EXTENT OF WORKS

0 40 80 120 160 200m
40 30 20 10
SCALE 1:2000

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

JN
Responsive Engineering

CLIENT
PETER MORAN

STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
COVER SHEET
AND LOCALITY PLAN

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:2000
PROJECT MGR	SMcM

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18010611
C001 3

STUDLEY PARK
52 LODGES ROAD, NARELLAN NSW 2567

STANDARD SYMBOLS & NOTATIONS

SYMBOL	DESCRIPTION
	BOUNDARY LINE
SW	PROPOSED STORMWATER DRAINAGE LINE (IN THE GROUND) Ø100 @ 1.0% MIN GRADE UNO.
RW	PROPOSED RAINWATER DRAINAGE LINE Ø100 @ 1.0% MIN GRADE UNO. USE PRESSURE GRADE PIPES FOR CHARGED SYSTEM
ExSW	EXISTING STORMWATER DRAINAGE PIT AND PIPE
RM	PUMP RISING MAIN
S/S	90Ø SUBSOIL LINE CONNECT TO STORMWATER OUTLET OR VERTICAL SLOT DRAIN
	SPOON / SWALE DRAIN
##	GRATED SURFACE INLET PIT WITH (OVERLAND FLOW DIRECTION). PIT DIMENSIONS ARE GOVERNED BY DEPTH REFER DETAIL
##	SEALED JUNCTION PIT
	GRATED DRAIN
	KERB INLET PIT WITH LINTEL
RWO	RAINWATER DRAINAGE OUTLET
22m² / 44 m²P	CATCHMENT AREA TO STORMWATER PIT
P	DRAINAGE CELL PLANTER OUTLET
DP-100Ø	INDICATIVE DOWNPIPE - LOCATION AND MINIMUM SIZE
RHO	DOWNPIPE WITH RAINWATER HEAD OVERFLOW
SHO	DOWNPIPE WITH SUMP HIGH CAPACITY OVERFLOW
SSO	DOWNPIPE WITH SUMP-SIDE OVERFLOW
	GUTTER
IO	INSPECTION OPENING
VD-150Ø	VERTICAL DROP IN STORMWATER LINE (FROM ABOVE)
VD-150Ø	VERTICAL DROP IN STORMWATER LINE (TO BELOW)
DPS	DOWNPIPES WITH SPREADER
RWT	PROPOSED RAINWATER TANK
35.11	EXISTING SURFACE LEVEL
36.00	EXISTING SURVEY CONTOUR
* RL35.40	FINISHED SURFACE LEVEL
* P35.85	FINISHED PAVEMENT LEVEL
* TK35.55	TOP OF NEW KERB LEVEL
* TOW35.55	TOP OF NEW RETAINING WALL LEVEL
GL 35.05	PROPOSED PIT SURFACE LEVEL
IL 34.75	PROPOSED PIT INVERT LEVEL
FFL23.56	PROPOSED FINISHED FLOOR LEVEL
225Ø uPVC @ 1.0% MIN	PIPE SIZE, TYPE AND GRADE < > DENOTES DIRECTION OF FLOW
uPVC	RIGID PVC PIPE
RCP	REINFORCED CONCRETE PIPE
RKG	ROLL KERB & GUTTER
K&G	KERB & GUTTER
150 KO	150 HIGH KERB ONLY
	OVERLAND FLOW PATH
FALL FALL	FALL DIRECTION
TOW (X.XXm)	RETAINING WALL WITH HEIGHT
S	EXISTING SEWER LINE
T	EXISTING TELSTRA LINE
G	EXISTING GAS LINE
E	EXISTING ELECTRICITY LINE
W	EXISTING WATER MAIN

ALL EXISTING LEVELS TO BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF WORKS.

DEPTH AND LOCATION OF ALL EXISTING SERVICES TO BE CONFIRMED BY BUILDER ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

GENERAL

1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE NOMINATED OR APPLICABLE COUNCIL SPECIFICATION. WHERE A SPECIFICATION HAS NOT BEEN NOMINATED THEN THE CURRENT NSW DEPARTMENT OF HOUSING CONSTRUCTION SPECIFICATION IS TO BE USED. THE NOMINATED SPECIFICATION SHALL TAKE PRECEDENCE TO THESE NOTES.
2. ALL DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECTURAL DRAWINGS & DRAWINGS FROM OTHER CONSULTANTS.
3. THE CONTRACTOR SHOULD REPORT ANY DISCREPANCIES ON THE DRAWINGS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN.
4. THE CONTRACTOR SHOULD LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION AND PROTECT AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE AND/OR ADJUST IF NECESSARY. INFORMATION GIVEN ON THE DRAWINGS IN RESPECT TO SERVICES IS FOR GUIDANCE ONLY AND IS NOT GUARANTEED COMPLETE NOR CORRECT.
5. CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE PERMISSION OF THE OWNER.
6. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED OR REMOVED FROM SITE.
7. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING.
8. ALL DRAINAGE LINES THOUGH ADJACENT LOTS SHALL BE CONTAINED WITHIN EASEMENTS CONFORMING TO COUNCIL'S STANDARDS.
9. THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES AND DEBRIS ETC. TO THE EXTENT SPECIFIED.
10. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL PROVIDE A TRAFFIC MANAGEMENT PLAN PREPARED BY AN ACCREDITED PERSON IN ACCORDANCE WITH RMS REQUIREMENTS, FOR ANY WORK ON OR ADJACENT TO PUBLIC ROADS. PLAN TO BE SUBMITTED TO COUNCIL & RMS.

SURVEY

1. JN ARE NOT RESPONSIBLE FOR THE ACCURACY OF ANY 3RD PARTY INFORMATION PROVIDED ON THIS DRAWING.
2. ALL LEVELS ARE TO A.H.D.
3. ALL CHAINAGES AND LEVELS ARE IN METRES, AND DIMENSIONS IN MILLIMETRES.
4. SET OUT COORDINATES ARE BASED ON SURVEY DRAWINGS PROVIDED FOR THE PURPOSE OF CARRYING OUT THE ENGINEERING DESIGN.
5. CONTRACTOR SHALL VERIFY ALL SET OUT COORDINATES SHOWN ON THE PLANS WITH A REGISTERED SURVEYOR.
6. CONTRACTOR SHALL ARRANGE FOR THE WORKS TO BE SET OUT BY A REGISTERED SURVEYOR.
7. ANY DISCREPANCIES SHOULD BE CLARIFIED IN WRITING WITH THE ENGINEER PRIOR TO COMENCEMENT OF THE WORK FOR CONFIRMATION OF THE SURVEY.

EARTHWORKS

1. PROVIDE PROTECTION BARRIERS TO PROTECTED/SENSITIVE AREAS PRIOR TO ANY BULK EXCAVATION.
2. OVER FULL AREA OF EARTHWORKS, CLEAR VEGETATION, RUBBISH, SLABS ETC. AND STRIP TOP SOIL. AVERAGE 200mm THICK. REMOVE FROM SITE, EXCEPT TOP SOIL FOR RE-USE.
3. CUT AND FILL OVER THE SITE TO LEVELS REQUIRED.
4. PRIOR TO ANY FILLING IN AREAS OF CUT OR IN EXISTING GROUND, PROOF ROLL THE EXPOSED SURFACE WITH A ROLLER OF MINIMUM WEIGHT OF 5 TONNES WITH A MINIMUM OF 10 PASSES.
5. EXCAVATE AND REMOVE ANY SOFT SPOTS ENCOUNTERED DURING PROOF ROLLING AND REPLACE WITH APPROVED FILL COMPACTED IN LAYERS. THE WHOLE OF THE EXPOSED SUBGRADE AND FILL SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2%.
6. FOR ON SITE FILLING AREAS, THE CONTRACTOR SHALL TAKE LEVELS OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING FILL OPERATIONS.
7. WHERE HARD ROCK IS EXPOSED IN THE EXCAVATED SUB-GRADE, THIS WILL BE INSPECTED AND A DECISION MADE ON THE LEVEL TO WHICH EXCAVATION IS TAKEN.
8. FILL IN 200mm MAXIMUM (LOOSE THICKNESS) LAYERS TO UNDERSIDE OF BASECOURSE USING THE EXCAVATED MATERIAL AND COMPACTED TO 98% STANDARD (AS 1289 5.1.1). MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2% SHOULD THERE BE INSUFFICIENT MATERIAL FROM SITE EXCAVATIONS, IMPORT AS NECESSARY CLEAN GRANULAR FILL TO APPROVAL.
9. COMPACTION TESTING SHALL BE CARRIED OUT AT THE RATE OF 2 TESTS PER 1000SQ METRES PER LAYER BY A REGISTERED NATA LABORATORY, THE COSTS OF TESTING AND RE-TESTING ARE TO BE ALLOWED FOR BY THE BUILDER.
10. BATTERS TO BE AS SHOWN, OR MAXIMUM 1 VERT : 4 HORIZ. ALL CONDUITS AND MAINS SHALL BE LAID PRIOR TO LAYING FINAL PAVEMENT.
11. ALL BATTERS AND FOOTPATHS ADJACENT TO ROADS SHALL BE TOP SOILED WITH 150mm APPROVED LOAM AND SEEDED UNLESS OTHERWISE SPECIFIED.

DRAWING STATUS

PRELIMINARY
PRELIMINARY DRAWINGS ARE NOT TO BE USED FOR TENDER OR CONSTRUCTION PURPOSES.

TENDER
TENDER DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES AND ARE INTENDED FOR AN EXTENT OF WORKS. ALL OTHER CONSULTANT DRAWINGS AND CONTRACT DOCUMENTS SHOULD BE READ IN CONJUNCTION WITH THESE DOCUMENTS TO DETERMINE THE FULL EXTENT OF WORKS.

CONSTRUCTION CERTIFICATE
CONSTRUCTION CERTIFICATE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS APPROVED & STAMPED BY THE PCA.

CONSTRUCTION
CONSTRUCTION DRAWINGS CAN BE USED FOR CONSTRUCTION PURPOSES AND/OR FOR THE CREATION OF FABRICATION DRAWINGS.

PROJECT INFORMATION TABLE
THE TABLES BELOW ARE TO BE READ IN CONJUNCTION WITH THE ADJACENT NOTES.

GEOTECHNICAL INFORMATION

COMPANY	REPORT No.	DATED
COFFEY SERVICES AUSTRALIA	01	19.11.2019

SURVEY INFORMATION

COMPANY	DATED
PROJECT SURVEYORS	25.10.2019

PROOF ROLLING
PROOF ROLLING SPECIFICATION

(min) ROLLER WEIGHT	(min) NUMBER OF PASSES
5 TONNE	10

COMPACTION TESTING

RATE OF TESTS	TEST AREA PER LAYER
2	1000m²

- TESTING SHALL BE CARRIED OUT BY A REGISTERED NATA LABORATORY

RIGID PAVEMENT DESIGN
- DESIGN LIFE 40 YEARS

DESIGN VEHICLE	DESIGN CBR	DESIGN TRAFFIC
MRV	TBC	1 x 10^5 ESA

FLEXIBLE PAVEMENT DESIGN
- DESIGN LIFE 20 YEARS

DESIGN VEHICLE	DESIGN CBR	DESIGN TRAFFIC
MRV	TBC	1 x 10^5 ESA

STORMWATER DRAINAGE

1. STORMWATER DRAINAGE SHALL BE GENERALLY IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARDS AND COUNCIL'S SPECIFICATION.
2. PIPES OF 225mm DIA. AND UNDER SHALL BE UPVC
3. PIPES OF 300mm DIA. AND LARGER SHALL BE FRC OR CONCRETE CLASS 2 RUBBER RING JOINTED UNO.
4. ALL FRC OR RCP STORMWATER PIPES WITHIN ROAD RESERVE AREAS TO BE CLASS 3 U.N.O.
5. PIPES SHALL GENERALLY BE LAID AT THE GRADES INDICATED ON THE DRAWINGS.
6. MINIMUM COVER TO PIPES 300mm DIA. AND OVER GENERALLY SHALL BE 600mm IN CARPARK & ROADWAY AREAS UNO.
7. PIPES UP TO 150mm DIA SHALL BE LAID AT 1.0% MIN. GRADE U.N.O
8. PIPES 225mm DIA AND OVER SHALL BE LAID AT 0.5% MIN. GRADE U.N.O.
9. BACKFILL TRENCHES WITH APPROVED FILL COMPACTED IN 200mm LAYERS TO 98% OF STANDARD DENSITY.
10. ANY PIPES OVER 16% GRADE SHALL HAVE CONCRETE BULKHEADS AT ALL JOINTS.
11. PITS SHALL BE AS DETAILED WITH METAL GRATES AT LEVELS INDICATED. ALL PITS DEEPER THAN 1000mm TO HAVE CLIMB IRONS.
12. BUILD INTO UPSTREAM FACE OF ALL PITS A 3.0m SUBSOIL LINE FALLING TO PITS TO MATCH PIT INVERTS.
13. ALL COURTYARD & LANDSCAPED PITS TO BE 450 SQUARE, LOAD CLASS A, UNLESS NOTED OTHERWISE.
14. ALL DRIVEWAY & OSD PITS TO BE 600 SQUARE, LOAD CLASS D, UNLESS NOTED OTHERWISE.
15. INSTALL TEMPORARY SEDIMENT BARRIERS TO INLET PITS, TO COUNCIL'S STANDARDS UNTIL SURROUNDING AREAS ARE PAVED OR GRASSED.
16. PITS & DOWNPIPE LOCATIONS AND LEVELS MAY BE VARIED TO SUIT SITE CONDITIONS AFTER CONSULTING THE ENGINEER.
17. DOWNPIPES SHOWN ARE INDICATIVE ONLY. ALL ROOF GUTTERING AND DOWNPIPES TO THE CURRENT AUSTRALIAN STANDARDS.
18. ALL PLANTER BOXES AND BALCONIES TO BE CONNECTED TO THE PROPOSED STORMWATER DRAINAGE LINE.
19. HAND EXCAVATE THE STORMWATER PIPES IN VICINITY OF TREE ROOTS.
20. FOOTPATH CROSSING LEVELS SHOWN ARE TO BE ADJUSTED TO FINAL COUNCIL'S ISSUED LEVELS.
21. GEOTEXTILE FABRIC TO BE PLACED UNDER RIP RAP SCOUR PROTECTION.
22. ALL BASES OF PITS TO BE BENCHED TO HALF PIPE DEPTH AND PROVIDE GALVANISED ANGLE OF SUPPORT ACROSS TO GRATE.
23. SUBSOIL LINE;
    PIPES AND FITTINGS SHALL BE PERFORATED PLASTIC TO CURRENT AUSTRALIAN STANDARDS. LAY PIPES ON FLOOR OF TRENCH GRADED AT 1% MIN. AND OVERLAY WITH FILTER MATERIAL EXTENDING TO WITHIN 200mm OF SURFACE. PROVIDE FILTER FABRIC OF PERMEABLE POLYPROPYLENE BETWEEN FILTER MATERIAL AND TOPSOIL. PROVIDE FLUSHING EYE'S AT HIGH POINTS OR TO COUNCILS REQUIREMENTS.
24. SUBSOIL DRAINAGE IS TO BE PLACED ALONG THE UP SLOPE SIDE OF ALL ROAD PAVEMENTS BEHIND THE KERB AND UNDER THE SUBGRADE. THE NEED FOR ADDITIONAL SUB-PAVEMENT DRAINS MAY BECOME APPARENT DURING CONSTRUCTION, DUE TO CHANGES IN SITE MOISTURE CONDITIONS OR AREAS OF POOR SUBGRADE NOT IDENTIFIED IN THE GEOTECHNICAL INVESTIGATIONS.
25. SUBSOIL DRAIN CONNECTIONS FROM UNDER KERB LINES, BEHIND RETAINING WALLS OR FROM UNDER IMPERMEABLE AREAS ARE TO CONNECT TO RECEIVING STORMWATER NETWORK WITH NON-PERFORATED PIPES.
26. SHOULD THE CONTRACTOR ELECT TO INSTALL PRECAST STORMWATER PITS AND THEY ARE PERMITTED BY COUNCIL AND THE CLIENT, THE PRECAST PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH RMS STANDARDS INCLUDING:
    a. SEAL THE SEGMENTS TOGETHER USING A SITE-APPROVED NON-SHRINK GROUT OR MASTIC-TYPE PRODUCT. APPLY THE SEALANT IN ACCORDANCE WITH THE PRODUCT MANUFACTURER'S REQUIREMENTS.
    b. ENSURE THAT NO GAPS REMAIN AND THAT A SMOOTH FACE EXISTS BETWEEN MULTIPLE UNITS.
    c. LEAVE THE SEGMENTS UNDISTURBED UNTIL THE PERIOD OF CURING IS COMPLETED IN ACCORDANCE WITH THE GROUT OR SEALANT PRODUCT MANUFACTURER'S REQUIREMENTS.

DRAINAGE INSTALLATION

RCP CONVENTIONAL INSTALLATIONS & ROAD CROSSINGS
1. SUPPLY & INSTALLATION OF DRAINAGE WORKS TO BE IN ACCORDANCE WITH THESE DRAWINGS, THE COUNCIL SPECIFICATION AND THE CURRENT APPLICABLE AUSTRALIAN STANDARDS.
2. BEDDING OF THE PIPELINES IS TO BE TYPE 'HS2' IN ACCORDANCE WITH THE STANDARDS AND AS FOLLOWS:
   a. COMPACTED GRANULAR MATERIAL IS TO COMPLY WITH THE FOLLOWING GRADINGS:

SIEVE SIZE (mm)	19	2.36	0.60	0.30	0.15	0.075
% MASS PASSING	100	50-100	20-90	10-60	0-25	0-10

   - AND THE MATERIAL PASSING THE 0.075 SIEVE HAVING LOW PLASTICITY AS DESCRIBED IN APPENDIX D OF AS1726.
   b. BEDDING DEPTH UNDER THE PIPE TO BE 100mm.
   c. BEDDING MATERIAL TO BE EXTENDED FROM THE TOP OF THE BEDDING ZONE UP TO 0.3 TIMES PIPE OUTSIDE DIAMETER. THIS REPRESENTS THE 'HAUNCH ZONE.'
   d. THE BEDDING & HAUNCH ZONE MATERIAL IS TO BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 98% WITHIN ROAD RESERVES AND TRAFFICABLE AREAS AND 95% ELSEWHERE FOR COHESIVE MATERIAL OR A MINIMUM DENSITY INDEX OF 70% IN ACCORDANCE WITH THE STANDARDS FOR COHESIONLESS MATERIAL.
   e. COMPACTION TESTING SHALL BE CARRIED OUT BY AN APPROVED ORGANISATION WITH A NATA CERTIFIED LABORATORY FOR ALL DRAINAGE LINES LAID WHOLLY OR IN PART UNDER THE KERB & GUTTER OR PAVEMENT.
3. BACKFILL SHALL BE PLACED & COMPACTED IN ACCORDANCE WITH THE SPECIFICATION. A GRANULAR GRAVEL AGGREGATE MATERIAL (<10mm) BACKFILL IS RECOMMENDED FOR THE BEDDING, HAUNCH SUPPORT AND SIDE ZONE DUE TO IT'S SELF COMPACTING ABILITY.
4. A MINIMUM OF 150mm CLEARANCE IS TO BE PROVIDED BETWEEN THE OUTSIDE OF THE PIPE BARREL AND THE TRENCH WALL FOR PIPES < 600 DIA. 200mm CLEARANCE FOR PIPES 600 TO 1200 DIA AND D/6 CLEARANCE FOR PIPES > 1200 DIA.

SAFETY IN DESIGN
1. THERE ARE INHERENT RISKS WITH CONSTRUCTING, MAINTAINING, OPERATING, DEMOLISHING, DISMANTLING AND DISPOSING THIS DESIGN THAT ARE TYPICAL OF SIMILAR DESIGNS. AS FAR AS IS REASONABLY PRACTICABLE RISKS HAVE BEEN ELIMINATED OR MINIMISED THROUGH THE DESIGN PROCESS. HAZARD CONTROLS MUST STILL BE IMPLEMENTED BY THE CONTRACTOR, OWNER OR OPERATOR TO ENSURE THE SAFETY OF WORKERS.

PAVEMENT - FLEXIBLE
1. THE PAVEMENT DESIGN AS DETAILED ASSUMES A PROPERLY PREPARED UNIFORM AND STABLE SUBGRADE. CONFIRMATION OF DESIGN CBR RATIO IS REQUIRED BY A GEOTEHCNICAL ENGINEER PRIOR TO WORKS COMMENCING.
2. ASSUMED DESIGN CBR TO BE CONFIRMED ONSITE DURING CONSTRUCTION PRIOR TO PLACEMENT OF PAVEMENT MATERIALS. THE CONTRACTOR IS TO UNDERTAKE SUFFICIENT CBR TESTING TO CONFIRM THE ASSUMED VALUE. WHERE LESSER VALUE HAS BEEN DETERMINED, THE SUPERVISING ENGINEER IS TO BE NOTIFIED TO DETERMINE A REVISED PAVEMENT DESIGN.
3. PAVEMENT TO BE CONSTRUCTED AS FOLLOWS:
   SURFACE COURSE - DENSE GRADED ASPHALT
   PRIMERSEAL - EMULSION BASED HOT BITUMEN
   BASE COURSE - DGB 20
   SUB BASE - DGS 40
4. SUBGRADE SHALL BE COMPACTED TO 100% STANDARD MAXIMUM DRY DENSITY RATIO AT OPTIMUM MOISTURE CONTENT ±2%. IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARDS.
5. SUBBASE COURSE SHALL BE COMPACTED TO 95% MODIFIED MAXIMUM DRY DENSITY.
6. BASECOURSE SHALL BE COMPACTED TO 98% MODIFIED MAXIMUM DRY DENSITY.
7. PRIOR TO THE PLACEMENT OF THE PRIMERSEAL AND AFTER THE REQUIRED DENSITY IS ACHIEVED, THE PAVEMENT IS TO BE ALLOWED TO DRY BACK TO APPROXIMATELY 60% TO 70% OPTIMUM MOISTURE CONTENT.
8. ALL SUBGRADES TO BE ROOF ROLLED & APPROVED BY SUPERVISING ENGINEER.
9. COMPACTION TESTS ARE TO BE UNDERTAKEN FOR ALL PAVEMENT LAYERS INCLUDING SUBGRADE AT A RATE TO BE DETERMINED BY THE SUPERVISING ENGINEER & THE RESULTS TO BE SUPPLIED TO THE ENGINEER PRIOR TO PLACEMENT OF THE NEXT PAVEMENT LAYER.

PAVEMENT - RIGID
1. PREPARATION FOR PAVEMENT: CLEAR SITE, STRIP TOPSOIL, CUT AND FILL AND PREPARATION OF SUBGRADE SHALL BE AS DESCRIBED IN "EARTHWORKS" NOTES.
2. SUBGRADE SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2% IN ACCORDANCE WITH AS 1289 5.1.1.
3. BASE COURSE SHALL BE CONSTRUCTED FROM FINE CRUSHED ROCK DG820 COMPACTED TO 100% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2% IN ACCORDANCE WITH AS 1289 5.1.11
4. CONCRETE PAVEMENT SLABS SHALL BE AS DETAILED ON THE DRAWINGS.
5. ALL WORKMANSHIP AND MATERIALS FOR CONCRETE WORK SHALL BE IN ACCORDANCE WITH AS 3600 AND AS 3610 CURRENT EDITIONS WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
6. CONCRETE QUALITY ALL CEMENT SHALL BE TYPE SL SHRINKAGE LIMITED CEMENT IN ACCORDANCE WITH AS3972

ELEMENT	STRENGTH GRADE (MPa)	SLUMP	MAXIMUM AGGREG. SIZE (mm)
PAVEMENT	32	80	20

7. PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3600.
8. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
9. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm.
10. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
11. THE FINISHED CONCRETE SHALL BE MECHANICALLY VIBRATED TO ACHIEVE A DENSE HOMOGENEOUS MASS. COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. CONCRETE SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
12. CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF THREE DAYS, AND THE PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT.
13. REPAIRS TO CONCRETE SHALL NOT BE ATTEMPTED WITHOUT THE PERMISSION OF THE ENGINEER.

PAVEMENT - SEGMENTAL
1. PREPARATION FOR PAVEMENT: CLEAR SITE, STRIP TOPSOIL, CUT AND FILL AND PREPARATION OF SUBGRADE SHALL BE AS DESCRIBED IN "EARTHWORKS".
2. SUBGRADE SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ±2% IN ACCORDANCE WITH AS 1289.5.1.1.
3. BASECOURSE SHALL BE CONSTRUCTED FROM FINE CRUSHED ROCK DG820 COMPACTED TO 100% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ±2% IN ACCORDANCE WITH AS 1289.5.1.1.
4. PROVIDE CONCRETE WORKING SLAB 20MPa MIN 100mm THICK AS DETAILED ON DRAWING.
5. SEGMENTAL PAVING SHALL BE AS DETAILED ON THE DRAWINGS, AND ARE TO BE SUPPLIED WITH UNITS OF MAXIMUM GROSS PLAN AREA <0.1m². WHERE THIS AREA IS EXCEEDED REFER CONCRETE FLAG PAVEMENT SPECIFICATION.
6. ALL WORKMANSHIP AND MATERIALS FOR PAVER WORK SHALL BE IN ACCORDANCE WITH ALL AS 4455, AS4456, AS4459, T44, T45, T46. CURRENT EDITIONS WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENT.
7. PAVER QUALITY:

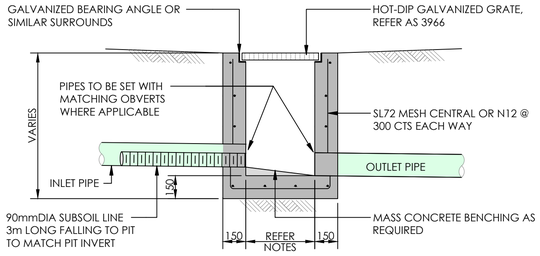
APPLICATIONS	CHARACTERISTIC BREAKING LOAD (kN)	CHARACTERISTIC FLEXURAL STRENGTH (MPa)
RESIDENTIAL PEDESTRIAN	2	2
RESIDENTIAL DRIVEWAYS	5	3
PUBLIC FOOTPATHS	5	3
ROADS	5	3
INDUSTRIAL PAVEMENTS	10	4

   PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 4456.4 AND AS 4456.5.
8. PAVERS TO BE BEDDED AND SOUND EDGE RESTRAINTS ARE TO BE PROVIDED.
9. JOINTS TO BE FULLY GROUTED.

ENVIRONMENTAL SITE MANAGEMENT
1. EROSION & SEDIMENT CONTROLS TO BE INSTALLED IN ACCORDANCE WITH COUNCIL'S SPECIFICATION & THE NSW DEPARTMENT OF HOUSING "BLUE BOOK" - SOILS AND CONSTRUCTION - MANAGING URBAN STORMWATER, 2004. REFER TO THE BLUE BOOK FOR STANDARD DRAWINGS 'SD'
2. SEDIMENT & EROSION CONTROLS MUST BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS OR DEMOLITION ACTIVITY. THE LOCATION OF SUCH DEVICES IS INDICATIVE ONLY AND FINAL POSITION SHOULD BE DETERMINED ON SITE.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL MEASURES ARE TAKEN DURING THE COURSE OF CONSTRUCTION TO PREVENT SEDIMENT EROSION AND POLLUTION OF THE DOWNSTREAM SYSTEM. SUPERVISING ENGINEER SHOULD BE CONTACTED IF IN DOUBT. ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED AFTER EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE AND ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED SOIL STOCKPILE SITE.
4. RETAIN ALL EXISTING GRASS COVER WHEREVER POSSIBLE. TOPSOIL FROM ALL AREAS THAT WILL BE DISTURBED TO BE STRIPPED AND STOCKPILED AT THE NOMINATED SITE. A SEDIMENT FENCE TO BE PLACED DOWNHILL OF STOCKPILE.
5. AREAS OF SITE REGRADING ARE TO BE COMPLETED PROGRESSIVELY DURING THE WORKS AND STABILISED AS EARLY AS POSSIBLE. THE SUPERVISING ENGINEER MAY DIRECT THE CONTRACTOR TO HAVE AREAS OF DISTURBANCE COMPLETED AND STABILISED DURING THE COURSE OF THE WORKS.
6. ALL DISTURBED AREAS ARE TO BE SEEDED & FERTILISED WITHIN 14 DAYS OF EXPOSURE.
7. ALL EXISTING TREES TO BE RETAINED UNLESS SHOWN OTHERWISE ON APPROVED DRAWINGS. TREES RETAINED ARE TO BE PROTECTED WITH A HIGH VISIBILITY FENCE, PLUS FLAGGING TO INDIVIDUAL TREES AS NECESSARY.
8. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADEN WATER, UNTIL SURROUNDING AREAS ARE PAVED OR REGRASSED. GRAVEL OR GEOTEXTILE INLET FILTERS TO SD6-11 & SD6-12.
9. ALL SILT FENCES & BARRIERS ARE TO BE MAINTAINED IN GOOD ORDER & REGULARLY DESILTED DURING THE CONSTRUCTION PERIOD. SILT FENCES TO SD6-8 OR SD6-9.
10. STOCKPILES OF LOOSE MATERIALS SUCH AS SAND, SOIL, GRAVEL MUST BE COVERED WITH GEOTEXTILE SILT FENCE MATERIAL. PLASTIC SHEETING OR MEMBRANE MUST NOT BE USED. SAFETY BARRICADING SHOULD BE USED TO ISOLATE STOCKPILES OF SOLID MATERIALS SUCH AS STEEL REINFORCING, FORMWORK AND SCAFFOLDING.
11. WASTE MATERIALS ARE TO BE STOCKPILED OR LOADED INTO SKIP-BINS LOCATED ON SITE AS SHOWN ON PLAN.
12. NO MORE THAN 150m OF TRENCHING TO BE OPEN AT ANY ONE TIME. IMMEDIATELY AFTER TRENCH BACKFILLING, PROVIDE SANDBAGS OR SAUSAGE FILTERS ACROSS EACH TRENCH AT MAXIMUM 20m SPACINGS. FILTERS TO REMAIN IN PLACE UNTIL REVEGETATION HAS OCCURRED.
13. ALL VEHICLES LEAVING THE SITE MUST PASS OVER THE STABILISED SITE ACCESS BALLAST AREA (SIMILAR TO SD6-14) TO SHAKE OFF SITE CLAY AND SOIL. IF NECESSARY WHEELS AND AXLES ARE TO BE HOSED DOWN. BALLAST IS TO BE MAINTAINED & REPLACED AS NECESSARY DURING THE CONSTRUCTION PERIOD.
14. THE HEAD CONTRACTOR IS TO INFORM ALL SITE STAFF AND SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION AND SEDIMENT CONTROL PLAN.
15. ANY SEDIMENT DEPOSITED ON THE PUBLIC WAY, INCLUDING FOOTPATH RESERVE AND ROAD SURFACE, IS TO BE REMOVED IMMEDIATELY.
16. PROVIDE BARRIERS AROUND ALL CONSTRUCTION WORKS WITHIN THE FOOTPATH AREA TO PROVIDE SAFE ACCESS FOR PEDESTRIANS.
17. CONCRETE PUMPS AND CRANES ARE TO OPERATE FROM WITHIN THE BALLAST ENTRY DRIVEWAY AREA AND ARE NOT TO OPERATE FROM THE PUBLIC ROADWAY UNLESS SPECIFIC COUNCIL PERMISSION IS OBTAINED.
18. DELIVERY VEHICLES MUST NOT STAND WITHIN THE PUBLIC ROADWAY FOR MORE THAN 20 MINUTES AT A TIME.
19. TRUCKS REMOVING EXCAVATED / DEMOLISHED MATERIAL SHOULD TRAVEL ON STABILISED CONSTRUCTION PATHS, MATERIAL TO BE TAKEN TO THE TRUCK TO REDUCE TRUCK MOVEMENT ON SITE. TRUCKS TO BE LIMITED TO SINGLE UNIT HEAVY RIGID VEHICLES. (NO SEMITRAILERS)
20. ANY EXCAVATION WORK ADJACENT TO ADJOINING PROPERTIES OR THE PUBLIC ROADWAY IS NOT TO BE COMMENCED UNTIL THE STRUCTURAL ENGINEER IS CONSULTED AND SPECIFIC INSTRUCTIONS RECEIVED FROM THE ENGINEER.
21. TOILET FACILITIES MUST BE EITHER A FLUSHING TYPE OR APPROVED PORTABLE CHEMICAL CLOSET. CHEMICAL CLOSETS ARE TO BE MAINTAINED & SERVICED ON A REGULAR BASIS SO THAT OFFENSIVE ODOUR IS NOT EMITTED.
22. DURING TRENCH EXCAVATION ALL SPOIL SHALL BE MOUNDED ON THE UPHILL SIDE OF TRENCHES AND PLACEMENT IS TO COMPLY WITH THE SUPERINTENDENTS REQUIREMENT.
23. DIVERSION BANKS SHOULD BE CONSTRUCTED BY MOUNDING STRIPPED TOPSOIL (MIN HEIGHT 400mm) WHERE DIRECTED, MATERIAL TO BE RESPREAD ON FOOTWAYS AFTER FINAL TRIMMING.
24. UNDISTURBED BUFFER ZONE AREAS ARE CLOSED TO ALL TRAFFIC MOVEMENTS UNLESS OTHERWISE NOTED BY THE SUPERINTENDENT AND ACCESS TO THE SEWER OR C.D.L.
25. TRENCHING WILL BE AS SHOWN, OR HEAVY PENALTIES MAY BE IMPOSED.
26. TRAFFIC MANAGEMENT MEASURES ARE REQUIRED TO BE IMPLEMENTED AND MAINTAINED DURING CONSTRUCTION. IN ACCORDANCE WITH 'R.T.A. TRAFFIC CONTROL AT WORK SITES - CURRENT EDITION' AND AS 1742 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.'
27. PEDESTRIAN CONTROL MEASURES ARE REQUIRED TO BE IMPLEMENTED AND MAINTAINED DURING CONSTRUCTION. IN ACCORDANCE WITH AS 1742 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.'

PAVEMENT LEGEND

SYMBOL	DESCRIPTION
	EXTENT OF CONCRETE PAVEMENT
DJ	DOWELLED JOINT
KJ	KEYED JOINT
SC	SAW CUT JOINT
BJ	BUTT JOINT



MINIMUM INTERNAL DIMENSIONS FOR STORMWATER PITS			
DEPTH OF INVERT OF OUTLET		DEPTH OF INVERT OF OUTLET	
		WIDTH	LENGTH
	< 600	450	450
> 600		600	600
> 900		600	900
> 1200		900	900
*STEP IRONS SHALL BE PROVIDED FOR PITS WITH DEPTHS EXCEEDING 1000mm			

NOTE:
1. CLIMB IRONS SHALL BE PROVIDED UNDER LID AT 300 CTS TO COUNCIL STANDARDS WHERE PIT DEPTH IS DEEPER THAN 1000.
2. REINFORCEMENT NOTED IS ONLY REQUIRED FOR PITS EXCEEDING 900 DEEP, SUBJECT TO COUNCIL REQUIREMENTS. PITS GREATER THAN 3000 DEEP WILL REQUIRE STRUCTURAL ENGINEERS DESIGN.
3. PROVIDE 90Dia x 3000 LONG SUBSOIL DRAINAGE STUB PIPE SURROUNDED WITH 100mm THICKNESS OF NOMINAL 20mm COARSE FILTER MATERIAL WRAPPED IN GEOTEXTILE FILTER FABRIC. (BIDUM A24 OR APPROVED SIMILAR). TO BE PARALLEL TO UPSTREAM SIDE OF EACH INLET PIPE.
4. ALTERNATIVE PIT CONSTRUCTION MAY BE USED SUBJECT TO THE ENGINEERS APPROVAL.
5. CONCRETE STRENGTH F'c = 32 MPa

TYPICAL CONCRETE INLET PIT - NATURAL SURFACE

SCALE 1 : 20

MINIMUM INTERNAL DIMENSIONS FOR STORMWATER PITS			
DEPTH OF INVERT OF OUTLET		DEPTH OF INVERT OF OUTLET	
		WIDTH	LENGTH
	< 600	450	450
> 600		600	600
> 900		600	900
> 1200		900	900
*STEP IRONS SHALL BE PROVIDED FOR PITS WITH DEPTHS EXCEEDING 1000mm			

NOTE:
1. CLIMB IRONS SHALL BE PROVIDED UNDER LID AT 300 CTS TO COUNCIL STANDARDS WHERE PIT DEPTH IS DEEPER THAN 1000.
2. REINFORCEMENT NOTED IS ONLY REQUIRED FOR PITS EXCEEDING 900 DEEP, SUBJECT TO COUNCIL REQUIREMENTS. PITS GREATER THAN 3000 DEEP WILL REQUIRE STRUCTURAL ENGINEERS DESIGN.
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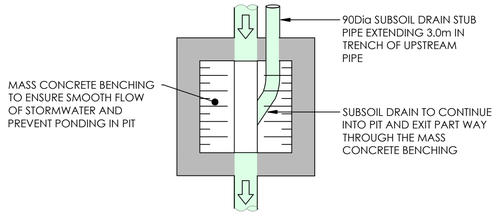
4. ALTERNATIVE PIT CONSTRUCTION MAY BE USED SUBJECT TO THE ENGINEERS APPROVAL.
5. CONCRETE STRENGTH F'c = 32 MPa

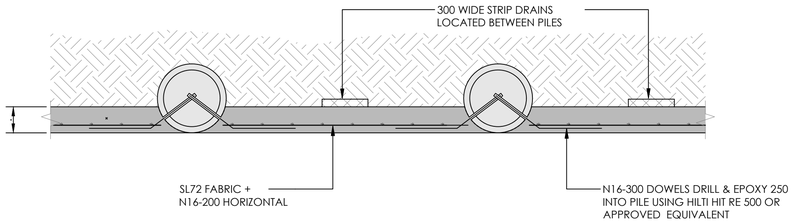
TYPICAL CONCRETE INLET PIT - CONCRETE SURFACE

SCALE 1 : 20



TYPICAL SUBSOIL PIPE/PIT BENCHING

SCALE 1 : 20

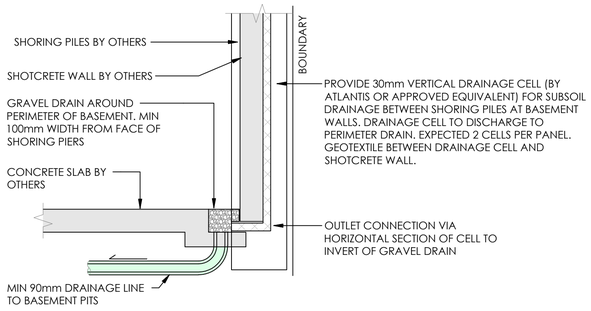


PLAN VIEW

NOTE: REINFORCING FABRIC TO BE PLACED BEHIND DOWEL BARS.

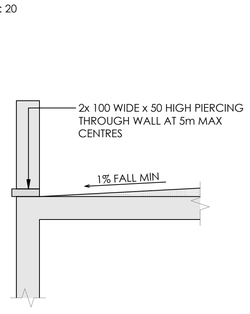
TYPICAL SHORING WALL PLAN

SCALE 1 : 20



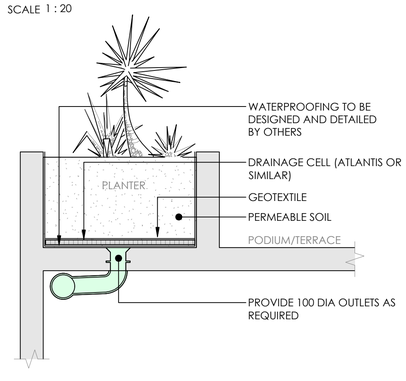
TYPICAL PERIMETER DRAIN DETAIL

SCALE 1 : 20

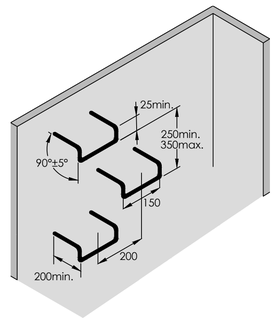


TYPICAL BALCONY SPITTIER DETAIL

SCALE 1 : 20

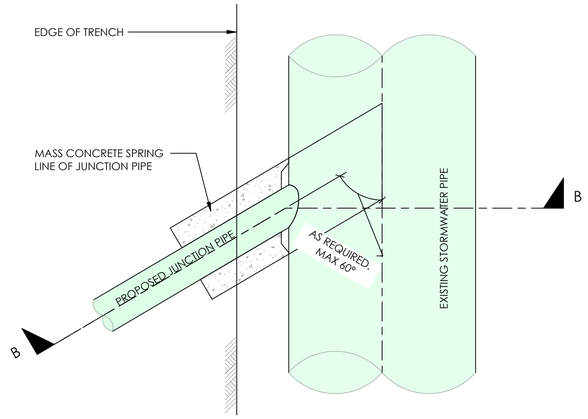


SCALE 1 : 20

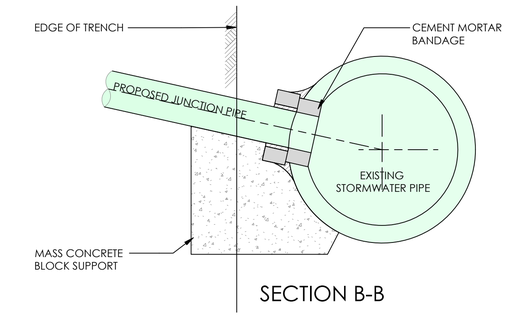


STEP IRON DETAIL

1 : 20

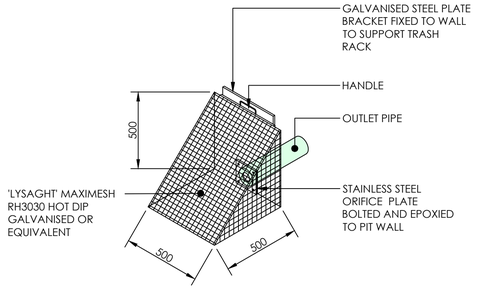


PLAN VIEW



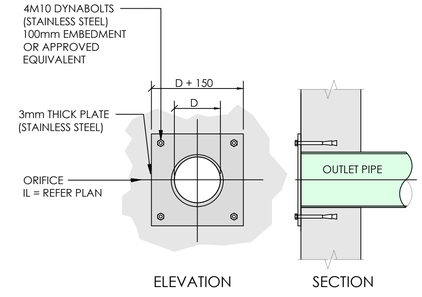
SECTION B-B

TYPICAL DIRECT CONNECTION OF SMALL PIPE AND LARGE PIPE



TYPICAL TRASH RACK SCREEN DETAIL

SCALE 1 : 20



ELEVATION SECTION

TYPICAL ORIFICE PLATE DETAIL

SCALE 1 : 10

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

JN Responsive Engineering

CLIENT
PETER MORAN

STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
TYPICAL STORMWATER DETAILS - SHEET 1

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	AS NOTED
PROJECT MGR	SMcM

WWW.JN.COM.AU

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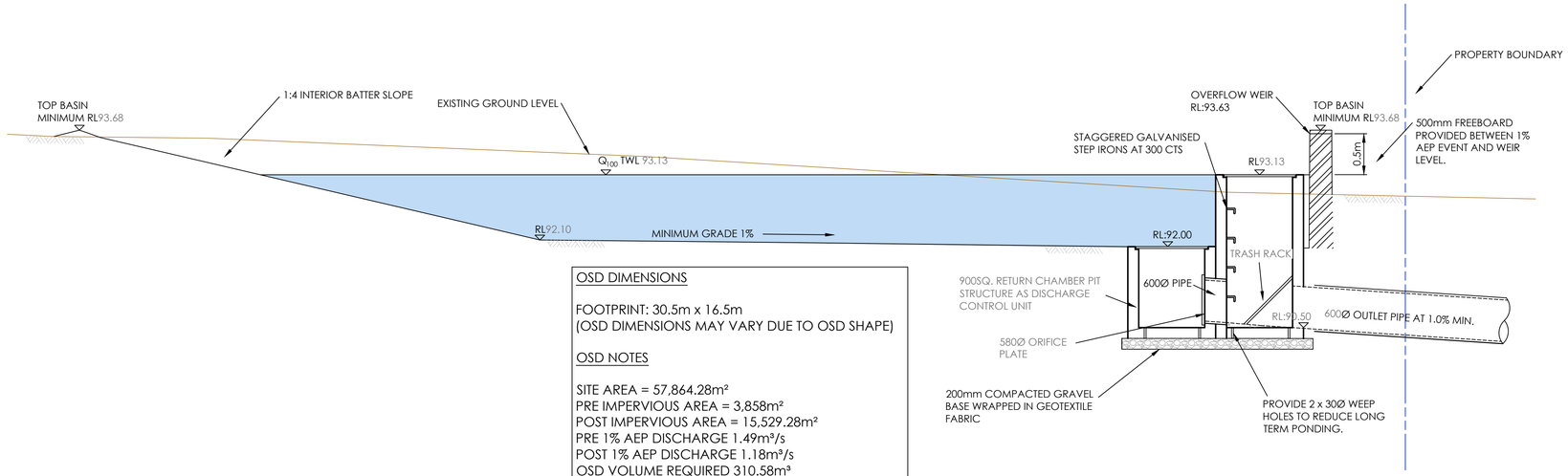
C050 3



OSD DIMENSIONS

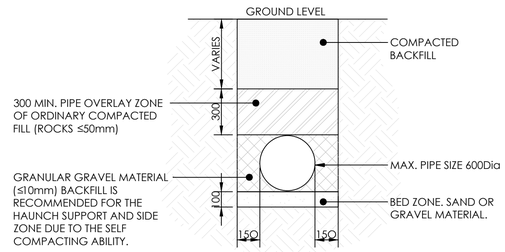
FOOTPRINT: 30.5m x 16.5m
(OSD DIMENSIONS MAY VARY DUE TO OSD SHAPE)

OSD NOTES

SITE AREA = 57,864.28m²
PRE IMPERVIOUS AREA = 3,858m²
POST IMPERVIOUS AREA = 15,529.28m²
PRE 1% AEP DISCHARGE 1.49m³/s
POST 1% AEP DISCHARGE 1.18m³/s
OSD VOLUME REQUIRED 310.58m³
OSD PROVIDED IN ABOVE GROUND OSD = 310.58m³

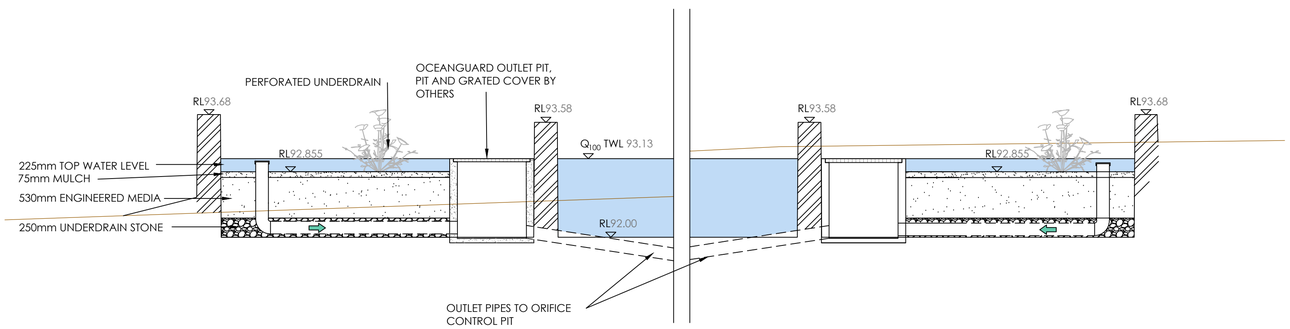
ABOVE GROUND OSD BASIN SYSTEM SECTION A

SCALE NTS



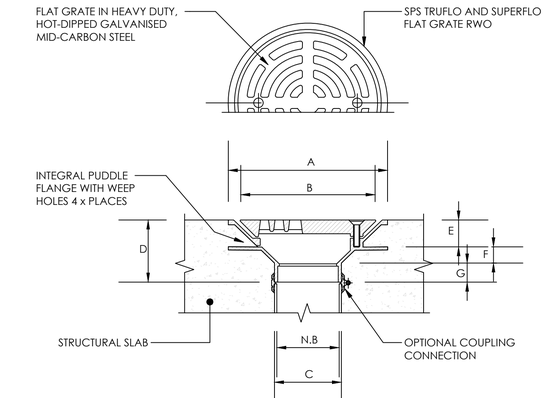
TYPICAL SCHEMATIC PIPE TRENCH DETAIL

SCALE 1 : 20



ABOVE GROUND OSD BASIN SYSTEM SECTION B

SCALE NTS



N.B.	A	B	C	D	E	F	G	FLOW RATE * L/S
100	260	200	110	95	44	26	25	8.2
150	260	200	160	80	48	29	28	10.2
SUPERFLO**	400	290	160	143	66	39	38	17

* BASED ON 50mm HEAD OF WATER ABOVE SURFACE LEVEL. FOR FURTHER DATA REFER TO FLOW CHARTS.

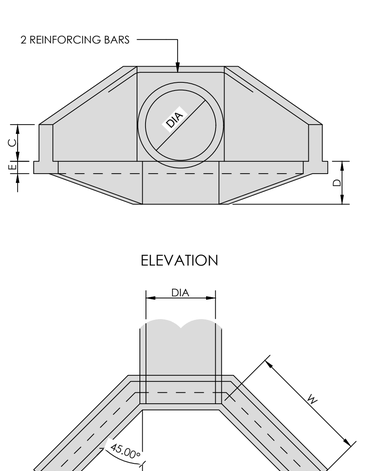
** SUPERFLO AVAILABLE IN 150mm OUTLET ONLY.

SPECIFICATION CODE:
- TIA100F (100mm TRUFLO CI BODY, GALVANISED FLAT GRATE).
- TIA150F (150mm TRUFLO CI BODY, GALVANISED FLAT GRATE).
- TIA100/90F2 (150mm SUPERFLO CI BODY, GALVANISED FLAT GRATE).

SUGGESTED APPLICATIONS:
- CAR PARK DECKS.
- PLANT ROOMS.
- PEDESTRIAN PRECINCTS.

SPS TRUFLO & SUPERFLO FLAT GRATE RWO

SCALE N.T.S



PIPE DIA	300	375	450	525	600	675	750	825	900
A	150	150	150	150	175	175	200	200	225
B	300	300	300	300	450	450	450	450	450
C	300	300	300	300	350	350	350	350	350
D	375	375	375	375	530	530	530	530	530
E	150	150	150	150	175	175	200	200	225
F	75	75	75	75	100	100	100	100	100
G	40	40	40	40	50	50	50	50	50
H	70	70	70	70	75	75	100	100	125
K	200	200	200	200	300	300	300	300	300
N	150	150	150	150	150	150	150	150	150
W	700	700	850	1000	1100	1300	1450	1600	1750
L	800	850	950	1000	1100	1200	1250	1350	1400

TYPICAL HEADWALL DETAIL

SCALE 1 : 20

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
4	23.10.24	RE-ISSUE FOR DA	JP
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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CLIENT
PETER MORAN

STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
TYPICAL STORMWATER
DETAILS - SHEET 2

PROJECT
STUDLEY PARK

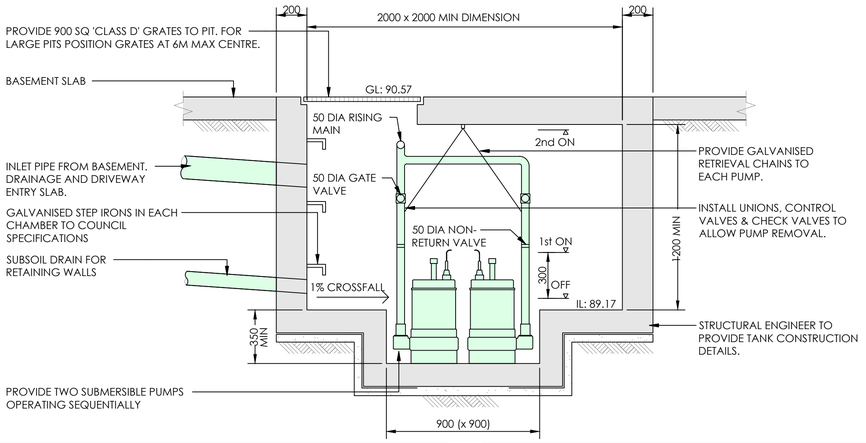
ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	AS NOTED
PROJECT MGR	SMcM

WWW.JN.COM.AU

18010611
C051 4



NOTE:
THE PUMP OUT SYSTEM SHALL BE DESIGNED TO BE OPERATED IN THE FOLLOWING MANNER:

- THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY SO AS TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.
- A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.
- A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE AND DRAIN THE TANK TO THE LEVEL OF THE LOW LEVEL FLOAT.
- A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM
- AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT AND A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.
- CONTRACTOR IS TO CONFIRM PUMP ELECTRICAL LOAD AND CONNECTION WITH ELECTRICAL CONTRACTOR AT THE BEGINNING OF THE PROJECT.

PUMP OUT CALCULATIONS

DRIVEWAY
AREA OF EXPOSED DRIVEWAY = 0.0 sq.m
MINIMUM VOLUME: 100 YR, 2HR= 0.0 cu.m
SUGGESTED ADOPTED V= 4.8 cu.m
QPEAK: 100 YR, 5 MIN =0.0 L/s

SUBSOIL CALCULATIONS

ASSUME SOIL IS SATURATED TO GROUND LEVEL AND INFLOWS CAN BE APPROXIMATED BY SUB-SOIL FLOW NET:
Q= 2/3 x K x H (m3/s PER M OF SUBSOIL LINE)
ASSUMED SUBSOIL INFILTRATION, K = 1x10^ -5 (CLAYEY SAND)
H= HEIGHT = 7.5m LENGTH OF SUBSOIL =185m
Q= [2/3 x 1x10^ -5 X (185 x 7.5)] x 1000 =9.25 L/s

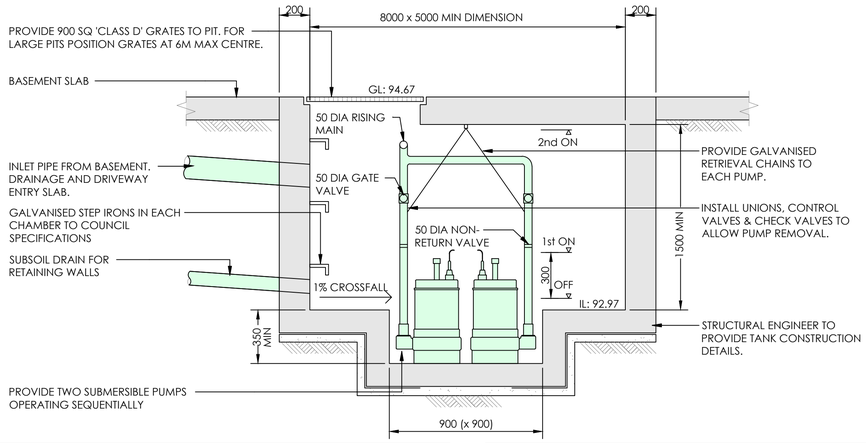
COMBINED

THEREFORE SUGGESTED PUMP CAPACITY
=1.1 x (0.0 + 9.25) = 10.2 L/s

NOTE: CONTRACTOR TO VERIFY SUBSOIL INFILTRATION RATES VIA GEOTECHNICAL ENGINEERS TESTING, PRIOR TO CONSTRUCTION. SUPERVISING ENGINEER TO VERIFY CHANGES IF INFILTRATION RATES DIFFER SIGNIFICANTLY FROM ASSUMED VALUES.

BASEMENT PUMPOUT TANK DETAIL - BUILDING A

SCALE N.T.S



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- CONTRACTOR IS TO CONFIRM PUMP ELECTRICAL LOAD AND CONNECTION WITH ELECTRICAL CONTRACTOR AT THE BEGINNING OF THE PROJECT.

PUMP OUT CALCULATIONS

DRIVEWAY
AREA OF EXPOSED DRIVEWAY = 875 sq.m
MINIMUM VOLUME: 100 YR, 2HR=59.9 cu.m
SUGGESTED ADOPTED V= 60 cu.m
QPEAK: 100 YR, 5 MIN =48.34 L/s

SUBSOIL CALCULATIONS

ASSUME SOIL IS SATURATED TO GROUND LEVEL AND INFLOWS CAN BE APPROXIMATED BY SUB-SOIL FLOW NET:
Q= 2/3 x K x H (m3/s PER M OF SUBSOIL LINE)
ASSUMED SUBSOIL INFILTRATION, K = 1x10^ -5 (CLAYEY SAND)
H= HEIGHT = 7.5m LENGTH OF SUBSOIL =140m
Q= [2/3 x 1x10^ -5 X (140 x 7.5)] x 1000 =7L/s

COMBINED

THEREFORE SUGGESTED PUMP CAPACITY
=1.1 x (48.34 + 7) = 60.9L/s

NOTE: CONTRACTOR TO VERIFY SUBSOIL INFILTRATION RATES VIA GEOTECHNICAL ENGINEERS TESTING, PRIOR TO CONSTRUCTION. SUPERVISING ENGINEER TO VERIFY CHANGES IF INFILTRATION RATES DIFFER SIGNIFICANTLY FROM ASSUMED VALUES.

BASEMENT PUMPOUT TANK DETAIL - BUILDING B

SCALE N.T.S

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

Responsive Engineering

CLIENT
PETER MORAN

STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
TYPICAL STORMWATER DETAILS - SHEET 3

PROJECT
STUDLEY PARK

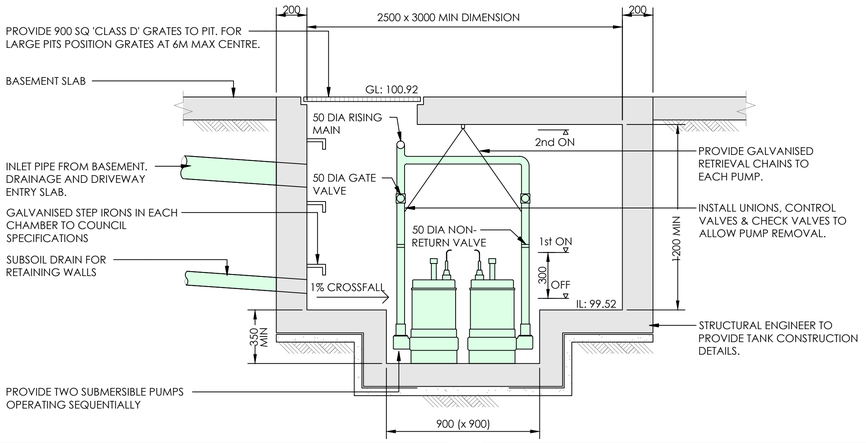
ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	AS NOTED
PROJECT MGR	SMcM

WWW.JN.COM.AU

18010611
C052 3



NOTE:
THE PUMP OUT SYSTEM SHALL BE DESIGNED TO BE OPERATED IN THE FOLLOWING MANNER:

- THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY SO AS TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.
- A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.
- A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE AND DRAIN THE TANK TO THE LEVEL OF THE LOW LEVEL FLOAT.
- A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM
- AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT AND A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.
- CONTRACTOR IS TO CONFIRM PUMP ELECTRICAL LOAD AND CONNECTION WITH ELECTRICAL CONTRACTOR AT THE BEGINNING OF THE PROJECT.

PUMP OUT CALCULATIONS

DRIVEWAY
AREA OF EXPOSED DRIVEWAY = 121 sq.m
MINIMUM VOLUME: 100 YR, 2HR= 8.3 cu.m
SUGGESTED ADOPTED V= 9 cu.m
QPEAK: 100 YR, 5 MIN =6.7 L/s

SUBSOIL CALCULATIONS

ASSUME SOIL IS SATURATED TO GROUND LEVEL AND INFLOWS CAN BE APPROXIMATED BY SUB-SOIL FLOW NET:
Q= 2/3 x K x H (m3/s PER M OF SUBSOIL LINE)
ASSUMED SUBSOIL INFILTRATION, K = 1x10^ -5 (CLAYEY SAND)
H= HEIGHT = 6.2m LENGTH OF SUBSOIL =350m
Q= [2/3 x 1x10^ -5 X (350 x 6.2)] x 1000 =14.46 L/s

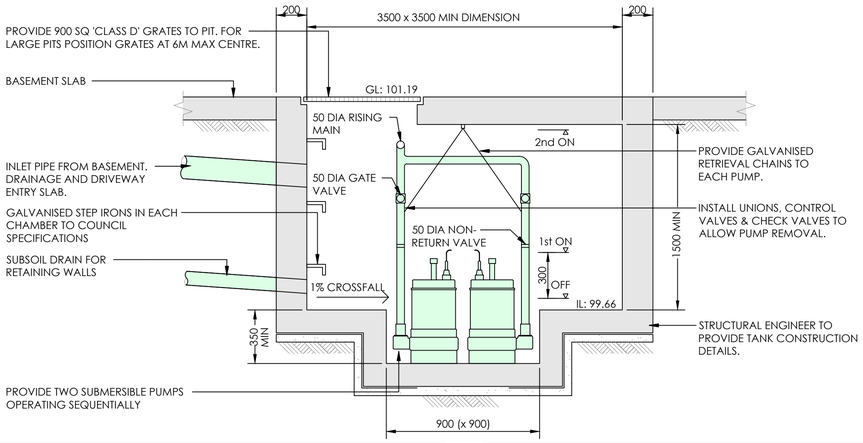
COMBINED

THEREFORE SUGGESTED PUMP CAPACITY
=1.1 x (6.7 + 14.46) = 23.3 L/s

NOTE: CONTRACTOR TO VERIFY SUBSOIL INFILTRATION RATES VIA GEOTECHNICAL ENGINEERS TESTING, PRIOR TO CONSTRUCTION. SUPERVISING ENGINEER TO VERIFY CHANGES IF INFILTRATION RATES DIFFER SIGNIFICANTLY FROM ASSUMED VALUES.

BASEMENT PUMPOUT TANK DETAIL - BUILDING C & D

SCALE N.T.S



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- A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.
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- AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT AND A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.
- CONTRACTOR IS TO CONFIRM PUMP ELECTRICAL LOAD AND CONNECTION WITH ELECTRICAL CONTRACTOR AT THE BEGINNING OF THE PROJECT.

PUMP OUT CALCULATIONS

DRIVEWAY
AREA OF EXPOSED DRIVEWAY = 195 sq.m
MINIMUM VOLUME: 100 YR, 2HR=13.3 cu.m
SUGGESTED ADOPTED V= 14.7 cu.m
QPEAK: 100 YR, 5 MIN =10.8 L/s

SUBSOIL CALCULATIONS

ASSUME SOIL IS SATURATED TO GROUND LEVEL AND INFLOWS CAN BE APPROXIMATED BY SUB-SOIL FLOW NET:
Q= 2/3 x K x H (m3/s PER M OF SUBSOIL LINE)
ASSUMED SUBSOIL INFILTRATION, K = 1x10^ -5 (CLAYEY SAND)
H= HEIGHT = 6.2m LENGTH OF SUBSOIL =193m
Q= [2/3 x 1x10^ -5 X (193 x 6.2] x 1000 =8L/s

COMBINED

THEREFORE SUGGESTED PUMP CAPACITY
=1.1 x (10.8 + 8) = 20.7L/s

NOTE: CONTRACTOR TO VERIFY SUBSOIL INFILTRATION RATES VIA GEOTECHNICAL ENGINEERS TESTING, PRIOR TO CONSTRUCTION. SUPERVISING ENGINEER TO VERIFY CHANGES IF INFILTRATION RATES DIFFER SIGNIFICANTLY FROM ASSUMED VALUES.

BASEMENT PUMPOUT TANK DETAIL - HOTEL

SCALE N.T.S

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

JN Responsive Engineering

CLIENT
PETER MORAN

STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
TYPICAL STORMWATER DETAILS - SHEET 4

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	AS NOTED
PROJECT MGR	SMcM

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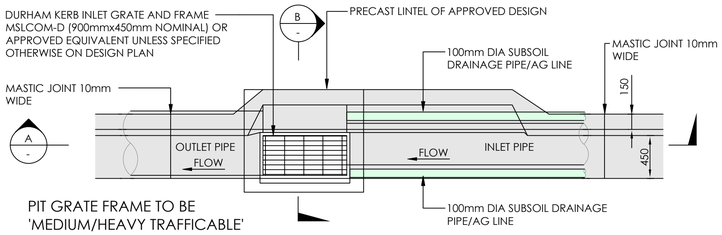
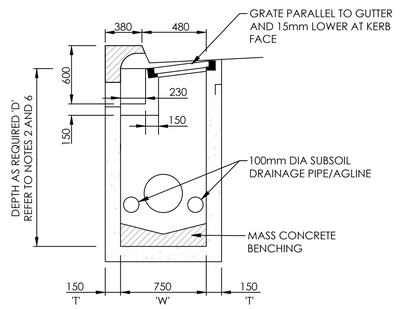
18010611
C053 3



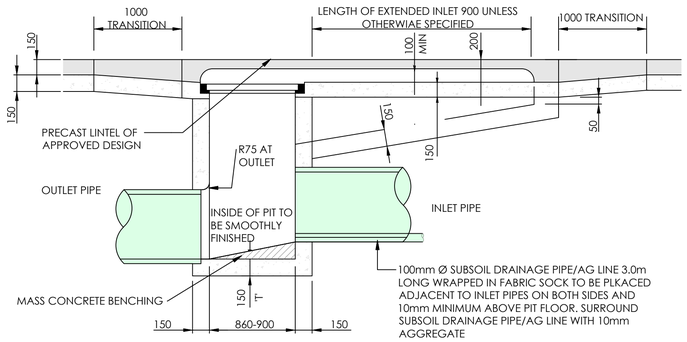
PIT GRATE FRAME TO BE
'MEDIUM/HEAVY TRAFFICABLE'
BIKE SAFE CLASS 'D' GRATES
OT FRAMES TO AS 3996

KERB INLET GULLY PIT PLAN

NOTE:
1. ALL KERB INLET PITS (ON GRADE) SHALL BE PROVIDED WITH AN EXTENDED INLET 900mm (MIN) LONG ON THE HIGHER SIDE
2. STEP IRONS TO BE PROVIDED AT 300mm CENTRES FOR PITS GREATER THAN 1200mm DEEEP AND PLACED ON A WALL CLEAR OF FLOW WHERE POSSIBLE IN ACCORDANCE WITH AS 1657.
3. THE COMPRESSIVE STRENGTH OF ALL CONCRETE USED SHALL BE 32MPa AT 2 8 DAYS IN ACCORDANCE WITH AS 1012 ANS AS 3600.
4. MINIMUM COVER TO ALL PIPES TO BE 600mm UNDER ROADS AND 450mm ELSEWHERE.
5. ALL INTERNAL PIT CORNERS TO BE PROVIDED WITH BENCHING TO IMPROVE FLOW.
6. WHERE INTERNAL WIDTH EXCEEDS 750mm OR DEPTH EXCEEDS 1200mm WALLS TO BE RERINFORCED IN ACCORDANCE WITH THE TABLE SHOWN BELOW.
7. SELECTED GRANULAR MATERIAL BACKFILL SHALL BE PLACED TO FILL ALL EXCAVATED VOIDS. (REFER TO AS 3725-2007).
8. ALL PIPES TO BE LAID SO THAT THEIR VERTICAL CENTRE LINES INTERSECT AT THE CENTRE OF THE PIT.
9. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.



SECTION B-B

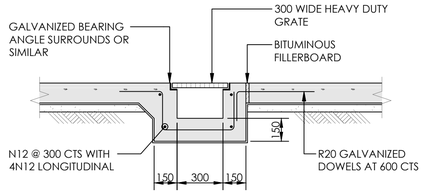


SECTIONAL ELEVATION A-A

DEPTH TO INVERT 'D'	WALL & BASE THICKNESS 'T'	SPACING OF 'N16' WALL & BASE REINFORCEMENT				
		MAXIMUM INTERNAL PLAN DIMENSION 'W'				
		0 - 1190	1200 - 1790	1800 - 2390	2400 - 2690	2700 - 3000
0 - 1990	150	NIL REINFT.	250 CP	250 CP	250 CP	250 CP
2000 - 2490	200	250 CP	250 CP	250 CP	250 CP	250 CP

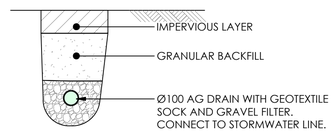
KERB INLET GULLY PIT DETAIL

SCALE 1 : 20



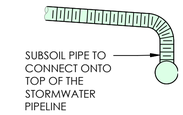
TYPICAL 300mm GRATED DRAIN DETAIL

SCALE 1 : 20



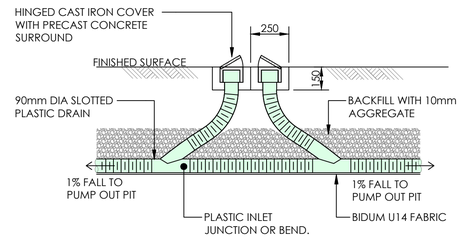
TYPICAL SUBSOIL LINE

SCALE 1 : 20



SUBSOIL PIPE CONNECTION

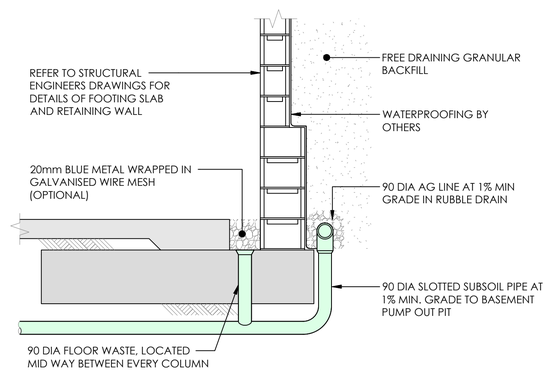
SCALE 1 : 20



NOTES :
- MINIMUM GRADE OF SUBSOIL DRAINAGE PIPES IS TO BE 1.0%. JOINTS IN FILTER FABRIC TO BE LAPPED A MINIMUM 300mm.

SUBSOIL PIPE FLUSHING POINT

1 : 20



TYPICAL GROUNDWATER DRAINAGE DETAIL

SCALE 1 : 20

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

JN Responsive Engineering

CLIENT
PETER MORAN

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
TYPICAL STORMWATER DETAILS - SHEET 5

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	AS NOTED
PROJECT MGR	SMCM

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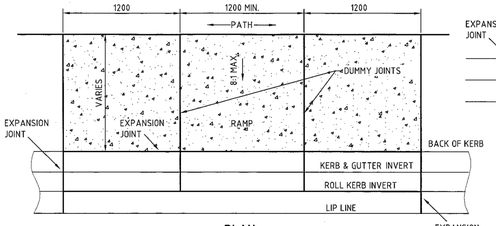
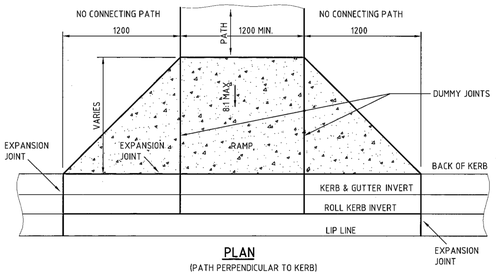
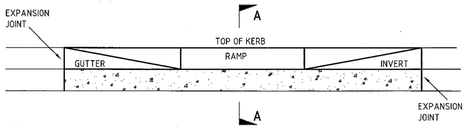
C054 3



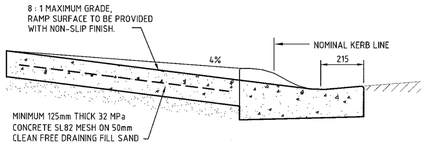
PLAN
(PATH PARALLEL TO KERB)



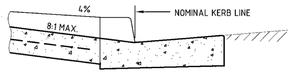
PLAN
(PATH PERPENDICULAR TO KERB)



ELEVATION



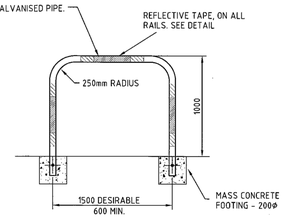
SECTION A - A
(ROLL KERB)



SECTION A - A
(KERB & GUTTER)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL KERB RAMPS ARE TO BE ALIGNED WITH THE DESIRED DIRECTION OF PEDESTRIAN TRAVEL AND BE A MINIMUM OF 1200 WIDE.
3. EXPANSION JOINTS TO BE PROVIDED WHERE ENDS OF KERB RAMP ABUTS KERB AND GUTTER.
4. KERB AND GUTTER TO BE SAWCUT FOR RAMPS PLACED IN EXISTING KERB



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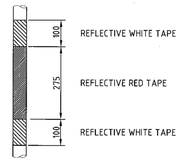
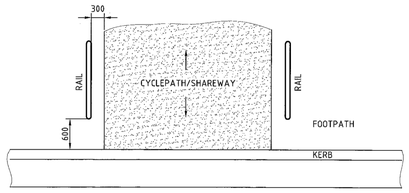


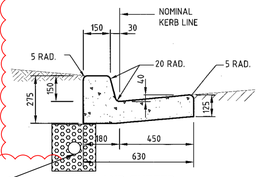
REFLECTIVE TAPE DETAIL



PLAN

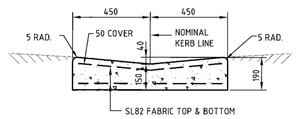
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES
2. PLACE N12 BAR 150mm LONG IN HOLE BEFORE FIXING INTO PLACE
3. CONCRETE TO BE 25MPa @ 28 DAYS.
4. ALL STEELWORK TO BE HOT DIPPED GALVANISED.
5. WHERE DIRECTED BY THE PCA/COUNCIL, ADDITIONAL/ALTERNATE RAILS MAY BE REQUIRED
6. ANY RAIL INSTALLATION SHALL BE IN ACCORDANCE WITH AUSTROADS PART 14 - BICYCLES.
7. REFLECTIVE TAPE TO BE CLASS 1 (AS1906.1).

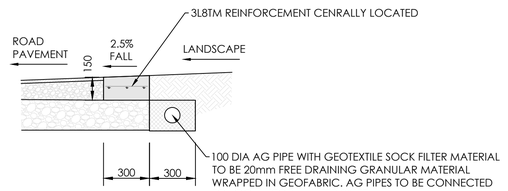


KERB AND GUTTER

100 DIA. AG. PIPE WITH GEOTEXTILE SOCK. FILTER MATERIAL TO BE 20mm FREE DRAINAGE GRANULAR MATERIAL WRAPPED IN GEOFABRIC. AG. PIPES TO BE CONNECTED TO LOCAL STORMWATER SYSTEM



DISH CROSSING



100 DIA AG PIPE WITH GEOTEXTILE SOCK FILTER MATERIAL TO BE 20mm FREE DRAINING GRANULAR MATERIAL WRAPPED IN GEOFABRIC. AG PIPES TO BE CONNECTED TO LOCAL STORMWATER SYSTEM

TYPICAL 300mm FLUSH KERB DETAIL

SCALE 1 : 20

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
TYPICAL CIVIL DETAILS

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	AS NOTED
PROJECT MGR	SMcM

WWW.JN.COM.AU

18010611
C055 3

ENVIRONMENTAL SITE MANAGEMENT

1. EROSION & SEDIMENT CONTROLS TO BE INSTALLED IN ACCORDANCE WITH COUNCIL'S SPECIFICATION & THE NSW DEPARTMENT OF HOUSING "BLUE BOOK" - SOILS AND CONSTRUCTION - MANAGING URBAN STORMWATER, 2004. REFER TO THE BLUE BOOK FOR STANDARD DRAWINGS "SD"
2. SEDIMENT & EROSION CONTROLS MUST BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS OR DEMOLITION ACTIVITY. THE LOCATION OF SUCH DEVICES IS INDICATIVE ONLY AND FINAL POSITION SHOULD BE DETERMINED ON SITE.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL MEASURES ARE TAKEN DURING THE COURSE OF CONSTRUCTION TO PREVENT SEDIMENT EROSION AND POLLUTION OF THE DOWNSTREAM SYSTEM. SUPERVISING ENGINEER SHOULD BE CONTACTED IF IN DOUBT. ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED AFTER EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE AND ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED SOIL STOCKPILE SITE.
4. RETAIN ALL EXISTING GRASS COVER WHEREVER POSSIBLE. TOPSOIL FROM ALL AREAS THAT WILL BE DISTURBED TO BE STRIPPED AND STOCKPILED AT THE NOMINATED SITE. A SEDIMENT FENCE TO BE PLACED DOWNHILL OF STOCKPILE.
5. AREAS OF SITE REGRADING ARE TO BE COMPLETED PROGRESSIVELY DURING THE WORKS AND STABILISED AS EARLY AS POSSIBLE. THE SUPERVISING ENGINEER MAY DIRECT THE CONTRACTOR TO HAVE AREAS OF DISTURBANCE COMPLETED AND STABILISED DURING THE COURSE OF THE WORKS.
6. ALL DISTURBED AREAS ARE TO BE SEEDED & FERTILISED WITHIN 14 DAYS OF EXPOSURE.
7. ALL EXISTING TREES TO BE RETAINED UNLESS SHOWN OTHERWISE ON APPROVED DRAWINGS. TREES RETAINED ARE TO BE PROTECTED WITH A HIGH VISIBILITY FENCE, PLUS FLAGGING TO INDIVIDUAL TREES AS NECESSARY.
8. INSTALL TEMPORARY SEDIMENT BARRIERS TO ALL INLET PITS LIKELY TO COLLECT SILT LADEN WATER, UNTIL SURROUNDING AREAS ARE PAVED OR REGRASSED. GRAVEL OR GEOTEXTILE INLET FILTERS TO SD6-11 & SD6-12.
9. ALL SILT FENCES & BARRIERS ARE TO BE MAINTAINED IN GOOD ORDER & REGULARLY DESILTED DURING THE CONSTRUCTION PERIOD. SILT FENCES TO SD6-8 OR SD6-9.
10. STOCKPILES OF LOOSE MATERIALS SUCH AS SAND, SOIL, GRAVEL MUST BE COVERED WITH GEOTEXTILE SILT FENCE MATERIAL. PLASTIC SHEETING OR MEMBRANE MUST NOT BE USED. SAFETY BARRICADING SHOULD BE USED TO ISOLATE STOCKPILES OF SOLID MATERIALS SUCH AS STEEL REINFORCING, FORMWORK AND SCAFFOLDING.
11. WASTE MATERIALS ARE TO BE STOCKPILED OR LOADED INTO SKIP-BINS LOCATED ON SITE AS SHOWN ON PLAN.
12. NO MORE THAN 150m OF TRENCHING TO BE OPEN AT ANY ONE TIME. IMMEDIATELY AFTER TRENCH BACKFILLING, PROVIDE SANDBAGS OR SAUSAGE FILTERS ACROSS EACH TRENCH AT MAXIMUM 20m SPACINGS. FILTERS TO REMAIN IN PLACE UNTIL REVEGETATION HAS OCCURRED.
13. ALL VEHICLES LEAVING THE SITE MUST PASS OVER THE STABILISED SITE ACCESS BALLAST AREA (SIMILAR TO SD6-14) TO SHAKE OFF SITE CLAY AND SOIL. IF NECESSARY WHEELS AND AXLES ARE TO BE HOSED DOWN. BALLAST IS TO BE MAINTAINED & REPLACED AS NECESSARY DURING THE CONSTRUCTION PERIOD.
14. THE HEAD CONTRACTOR IS TO INFORM ALL SITE STAFF AND SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION AND SEDIMENT CONTROL PLAN.
15. ANY SEDIMENT DEPOSITED ON THE PUBLIC WAY, INCLUDING FOOTPATH RESERVE AND ROAD SURFACE, IS TO BE REMOVED IMMEDIATELY.
16. PROVIDE BARRIERS AROUND ALL CONSTRUCTION WORKS WITHIN THE FOOTPATH AREA TO PROVIDE SAFE ACCESS FOR PEDESTRIANS.
17. CONCRETE PUMPS AND CRANES ARE TO OPERATE FROM WITHIN THE BALLAST ENTRY DRIVEWAY AREA AND ARE NOT TO OPERATE FROM THE PUBLIC ROADWAY UNLESS SPECIFIC COUNCIL PERMISSION IS OBTAINED.
18. TRUCKS REMOVING EXCAVATED / DEMOLISHED MATERIAL SHOULD TRAVEL ON STABILISED CONSTRUCTION PATHS. MATERIAL TO BE TAKEN TO THE TRUCK TO REDUCE TRUCK MOVEMENT ON SITE. TRUCKS TO BE LIMITED TO SINGLE UNIT HEAVY RIGID VEHICLES. (NO SEMITRAILERS)
19. ANY EXCAVATION WORK ADJACENT TO ADJOINING PROPERTIES OR THE PUBLIC ROADWAY IS NOT TO BE COMMENCED UNTIL THE STRUCTURAL ENGINEER IS CONSULTED AND SPECIFIC INSTRUCTIONS RECEIVED FROM THE ENGINEER.
20. TOILET FACILITIES MUST BE EITHER A FLUSHING TYPE OR APPROVED PORTABLE CHEMICAL CLOSET. CHEMICAL CLOSETS ARE TO BE MAINTAINED & SERVICED ON A REGULAR BASIS SO THAT OFFENSIVE ODOUR IS NOT EMITTED.
21. DURING TRENCH EXCAVATION ALL SPOIL SHALL BE MOUNDED ON THE UPHILL SIDE OF TRENCHES AND PLACEMENT IS TO COMPLY WITH THE SUPERINTENDENTS REQUIREMENT.
22. DIVERSION BANKS SHOULD BE CONSTRUCTED BY MOUNDING STRIPPED TOPSOIL (MIN HEIGHT 600mm) WHERE DIRECTED. MATERIAL TO BE RESPREAD ON FOOTWAYS AFTER FINAL TRIMMING.
23. UNDISTURBED BUFFER ZONE AREAS ARE CLOSED TO ALL TRAFFIC MOVEMENTS UNLESS OTHERWISE NOTED BY THE SUPERINTENDENT AND ACCESS TO THE SEWER OR C.D.L. TRENCHING WILL BE AS SHOWN, OR HEAVY PENALTIES MAY BE IMPOSED.
24. TRAFFIC MANAGEMENT MEASURES ARE REQUIRED TO BE IMPLEMENTED AND MAINTAINED DURING CONSTRUCTION. IN ACCORDANCE WITH 'R.T.A. TRAFFIC CONTROL AT WORK SITES - CURRENT EDITION' AND AS 1742 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.'
25. PEDESTRIAN CONTROL MEASURES ARE REQUIRED TO BE IMPLEMENTED AND MAINTAINED DURING CONSTRUCTION. IN ACCORDANCE WITH AS 1742 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

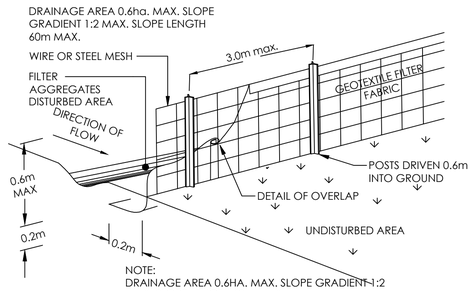
ENVIRONMENTAL SITE MANAGEMENT LEGEND

- PROPOSED BUILDING LINE
- PROPRIETARY SILT FENCE
- PROVIDE TEMPORARY CHAIN WIRE FENCING (HOARDING) ALONG THE SITE BOUNDARY.
- TEMPORARY STABALISED CONSTRUCTION ENTRY/EXIT. (SHAKER PAD)
- TEMPORARY FILTER TUBE WITH SAFETY BARRICADE TO KERB INLET PITS.
- NOMINATED DISPOSAL ROUTE FOR TRUCK MATERIAL TRANSPORTATION.
- TEMPORARY MASS CONCRETE FOOTPATH CROSSING.
- UNDISTURBED NON-TRAFFICABLE AREA
- DIVERSION BANK
- SURFACE INLET DRAINAGE PIT WITH SURROUNDING FILTER FABRIC INLET
  SEDIMENT TRAP OR FILTER TUBES (SANDBAGS)
- TEMPORARY GEOTEXTILE WRAPPED HAY BALES/SAND BAGS
- STOCK MATERIALS
- SITE EQUIPMENT LOCATIONS

SAFETY IN DESIGN

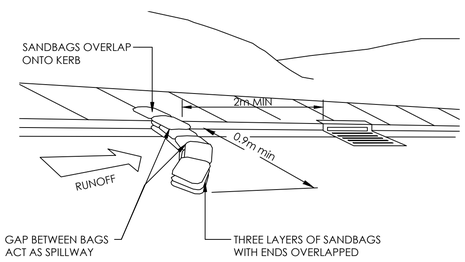
THERE ARE INHERENT RISKS WITH CONSTRUCTING, MAINTAINING, OPERATING, DEMOLISHING, DISMANTLING AND DISPOSING THIS DESIGN THAT ARE TYPICAL OF SIMILAR DESIGNS, AS FAR AS IS REASONABLY PRACTICABLE RISKS HAVE BEEN ELIMINATED OR MINIMISED THROUGH THE DESIGN PROCESS. HAZARD CONTROLS MUST STILL BE IMPLEMENTED BY THE CONTRACTOR, OWNER OR OPERATOR TO ENSURE THE SAFETY OF WORKERS.

- JN DO NOT CONSIDER THAT THERE ARE ANY UNIQUE RISKS ASSOCIATED WITH THE DESIGN OF THIS PROJECT.

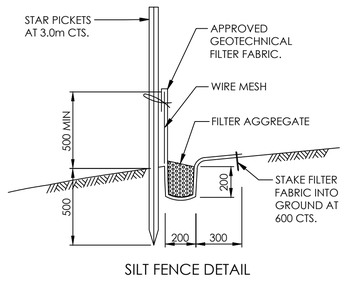


SEDIMENT FENCE

GENERAL CONSTRUCTION NOTES
1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
2. DRIVE 1.5m LONG STAR PICKETS IN GROUND 3m APART.
3. DIG A 200mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE FABRIC TO BE ENTRENCHED.
4. BACKFILL TRENCH OVER BASE OF FABRIC
5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
6. JOIN SECTIONS OF FABRIC AT A SUPPORT WITH A 150m OVERLAP.

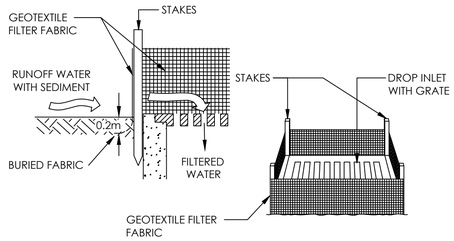


SANDBAG SEDIMENT TRAP DETAIL
SCALE 1 : 20

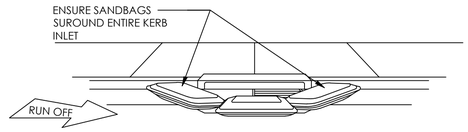


SILT FENCE DETAIL

SEDIMENT SILT FENCE DETAIL
SCALE 1 : 20

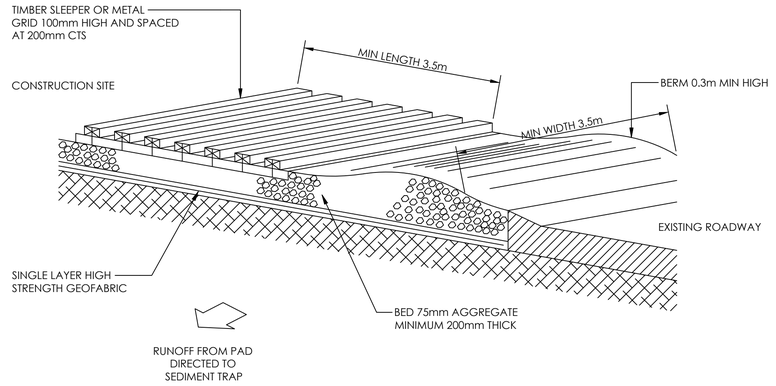


GEOTEXTILE FILTER FABRIC DROP INLET SEDIMENT TRAP DETAIL
SCALE 1 : 20

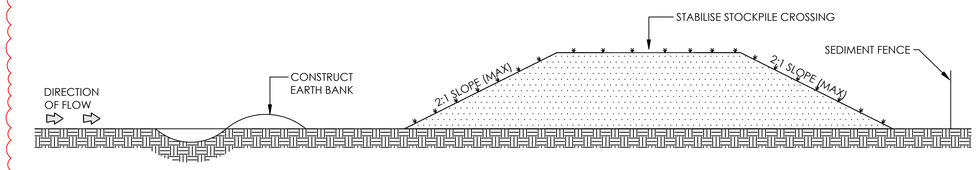


NOTES:
1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT.
2. FILL THE SLEEVE WITH 25mm TO 50MM GRAVEL.
3. FORM AN ELIPTICAL CROSS SECTION ABOUT 150mm HIGH X 400mm WIDE.
4. PLACE THE FILTER AT THE OPNEING OF THE KERB INLET LEAVING A 100MM GAP AT THE TOP TO ACT AS AN EMERGENCY SPILL WAY.
5. MAINTAIN A CLEAR DISTANCE AWAY FROM THE PIT WITH SPACER BLOCKS.
6. FORM A SEAL WITH THE KERBING AND PREVENT SEDIMENT BYPASSING THE FILTER.
7. FIT TO ALL KERB INLETS AS SHOWN.

SANDBAG SEDIMENT INLET TRAP
SCALE 1 : 20



TEMPORARY CONSTRUCTION EXIT DETAIL - SHAKER
SCALE 1 : 20



GENERAL CONSTRUCTION NOTES:
1. LOCATE STOCKPILE AT LEAST 5m FROM VEGETATION, CONCENTRATED WATER FLOWS, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS A LOW FLAT ELONGATED MOUND.
3. WHERE THERE IS A SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT. (TO ALLOW AIR VENTILATION FOR FUTURE REUSE)
4. REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP.
5. CONSTRUCT EARTH BANK ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE 1m TO 2m DOWNSLOPE OF STOCKPILE.

STOCKPILES
SCALE N.T.S

NOT TO BE USED FOR CONSTRUCTION

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2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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CLIENT
PETER MORAN
STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
TYPICAL EROSION AND SEDIMENT CONTROL DETAILS

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	AS NOTED
PROJECT MGR	SMcM

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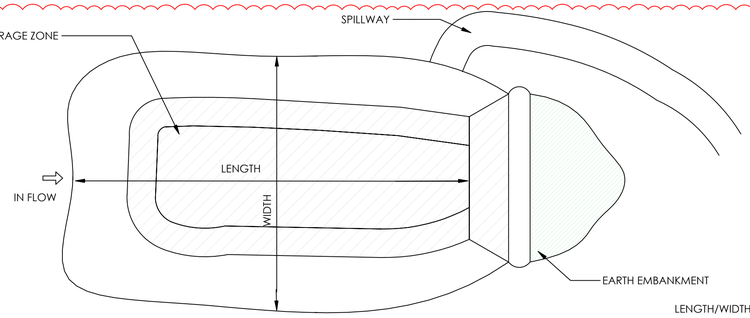
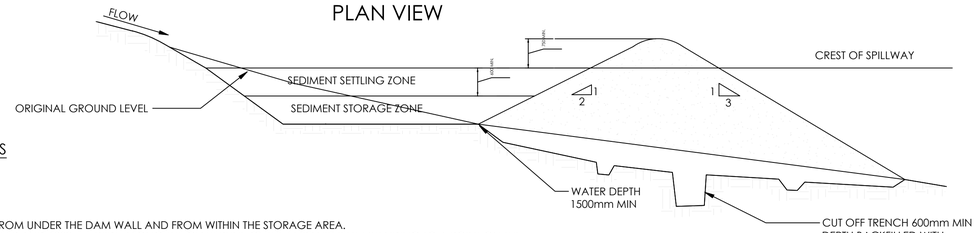
C060 3



LENGTH/WIDTH RATIO = 3:1 MIN

PLAN VIEW



SECTION VIEW
EARTH BASIN - WET

GENERAL CONSTRUCTION NOTES

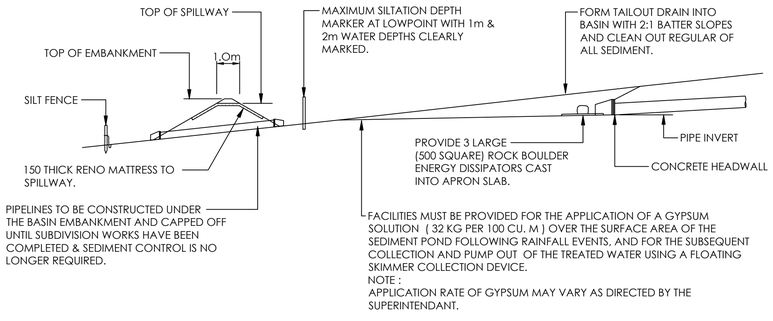
1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
2. CONSTRUCT A CUT-OFF TRENCH 600mm DEEP AND 1200mm WIDE ALONG THE CENTERLINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT SPECIFIED IN THE SWMP TO 95% STANDARD PROCTOR DENSITY.
4. SELECT FILL ACCORDING TO THE DIRECTIONS OF THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL
5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING AT LEAST 100mm DEEP TO HELP BOND COMPACT FILL TO EXISTING SUBSTRATE
6. SPREAD FILL IN 100mm TO 150mm LAYERS AND COMPACT AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH SWMP.
7. CONSTRUCT EMERGENCY SPILLWAY.
8. REHABILITATE STRUCTURE IN ACCORDANCE WITH THE SWMP.
9. PLACE A "FULL OF SEDIMENT" MARKER TO SHOW WHEN LESS THAN DESIGN CAPACITY OCCURS AND SEDIMENT REMOVAL IS REQUIRED.
10. BASIN MUST BE FULLY DRAINED BETWEEN STORM EVENTS TO ENSURE THE BASINS HAVE THE REQUIRED STORAGE VOLUME PRIOR TO THE START OF THE NEXT STORM.
11. THIS SOIL IS HIGHLY SUSCEPTIBLE TO TUNNELING OR PIPING FAILURE. IT MUST BE WELL COMPACTED THROUGHOUT TO REDUCE PERMEABILITY AND SATURATION SETTLEMENT. THE SOIL SHOULD BE COMPACTED TO AT LEAST 90% MDD BY ENSURING ADEQUATE MOISTURE CONTENT. IF DRIER THAN OPTIMUM, GYPSUM OR HYDRATED LIME SHOULD BE INCORPORATED INTO THE SOIL AT RATES BASED ON LABORATORY TESTING - THE METHOD TO BE DETERMINED BY SITE AND EQUIPMENT CONSTRAINTS. FOR ADDITIONAL STABILITY, THE STRUCTURE SHOULD BE DESIGNED TO HOLD NO MORE THAN 1.0m OF WATER AGAINST THE WALL AND BATTER GRADES SHOULD BE DECREASED TO 3.5:1 (H:V) UPSTREAM AND 3:1 (H:V) DOWNSTREAM.

Total Basin Volume

Site	C_v	$R_{x\text{-day, y-%ile}}$	Total catchment area (ha)	Settling zone volume (m^3)	Sediment storage volume (m^3)	Total basin volume (m^3)
	0.58	25.1	2.95	429.461	215	644.1915

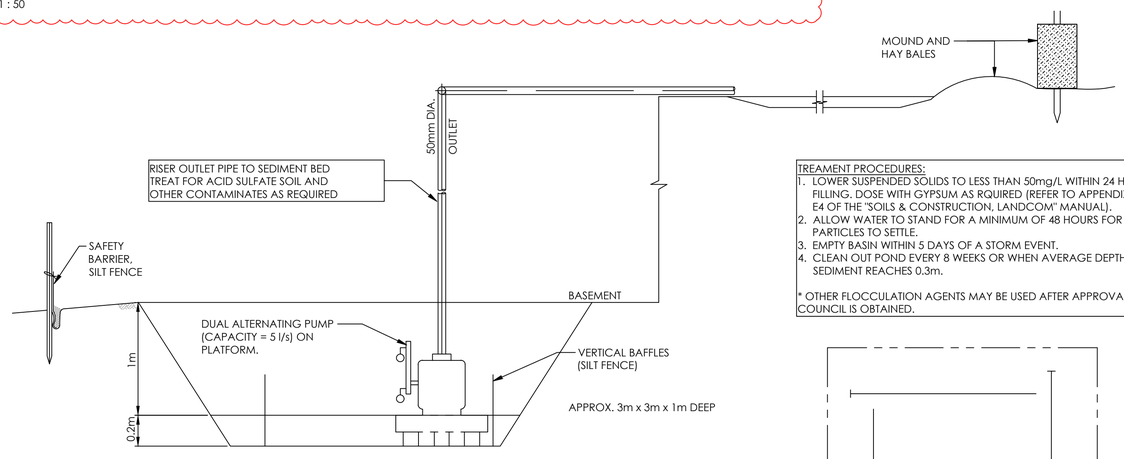
SEDIMENT AND EROSION CONTROL BASIN DETAIL

SCALE 1 : 50



SEDIMENTATION BASIN DETAIL

SCALE 1 : 20



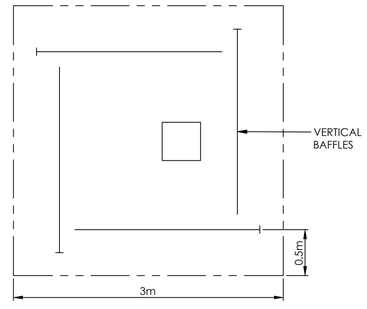
TEMPORARY PUMP OUT SUMP AND SEDIMENTATION POND

(FOR SITE SURFACE RUN OFF)

TREAMENT PROCEDURES:

1. LOWER SUSPENDED SOLIDS TO LESS THAN 50mg/L WITHIN 24 HOURS OF FILLING. DOSE WITH GYPSUM AS RQUIRED (REFER TO APPENDIX E, SECTION E4 OF THE "SOILS & CONSTRUCTION, LANDCOM" MANUAL).
2. ALLOW WATER TO STAND FOR A MINIMUM OF 48 HOURS FOR FLOCCULATED PARTICLES TO SETTLE.
3. EMPTY BASIN WITHIN 5 DAYS OF A STORM EVENT.
4. CLEAN OUT POND EVERY 8 WEEKS OR WHEN AVERAGE DEPTH OF TRAPPED SEDIMENT REACHES 0.3m.

* OTHER FLOCCULATION AGENTS MAY BE USED AFTER APPROVAL FROM COUNCIL IS OBTAINED.



TEMPORARY PUMP OUT PIT

SCALE 1 : 20

TEMPORARY PUMP OUT - PLAN VIEW

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
TYPICAL EROSION AND SEDIMENT CONTROL DETAILS

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	AS NOTED
PROJECT MGR	SMCM

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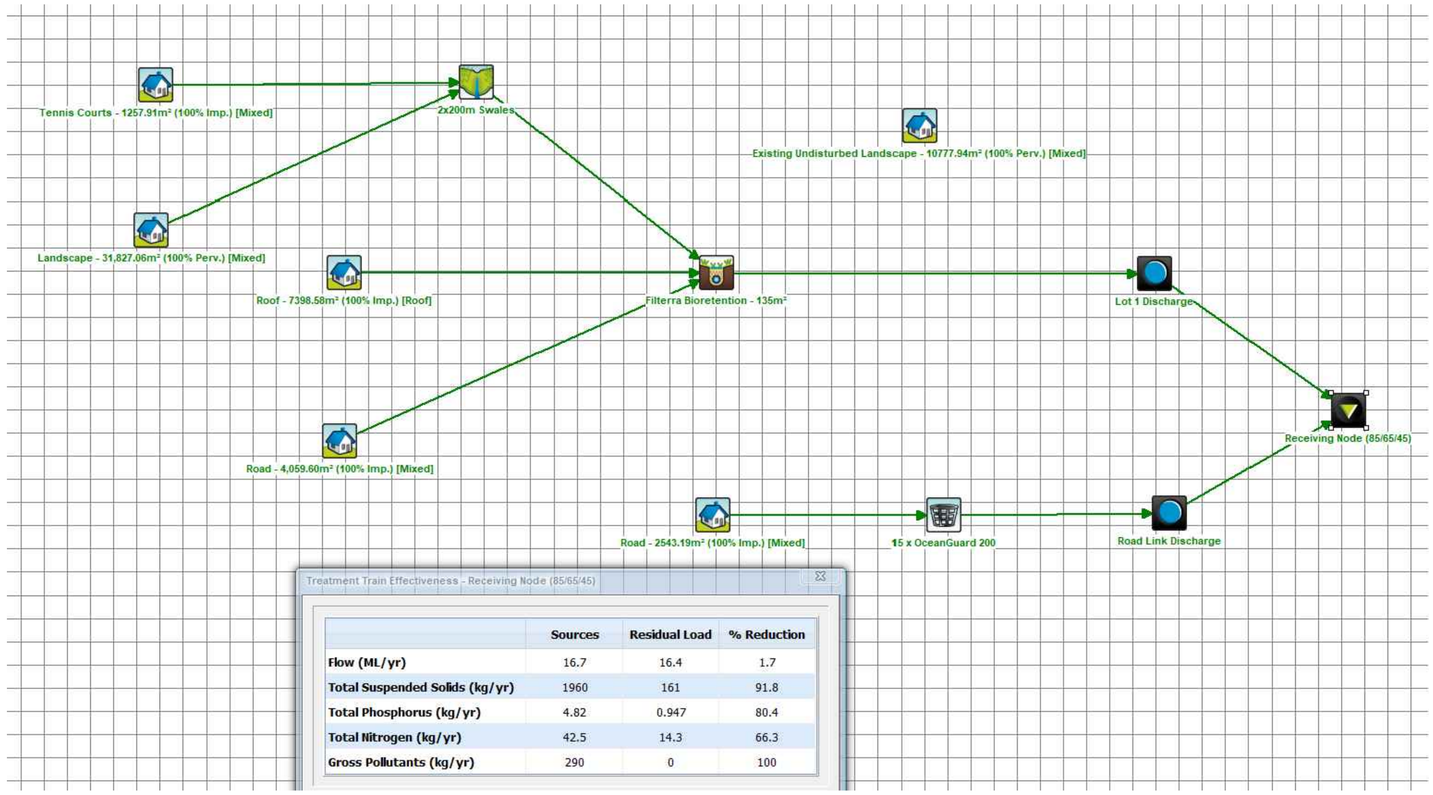
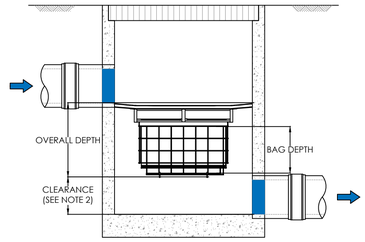
C061 3

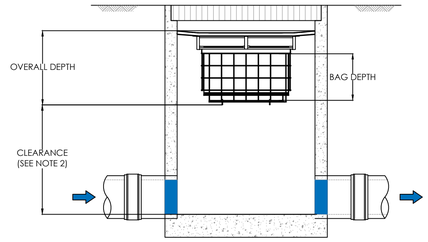


	Sources	Residual Load	% Reduction
Flow (ML/yr)	16.7	16.4	1.7
Total Suspended Solids (kg/yr)	1960	161	91.8
Total Phosphorus (kg/yr)	4.82	0.947	80.4
Total Nitrogen (kg/yr)	42.5	14.3	66.3
Gross Pollutants (kg/yr)	290	0	100

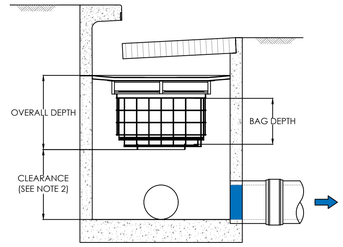
MUSIC MODEL - TREATMENT TRAIN EFFECTIVENESS



PIPE FLOW CONFIGURATION

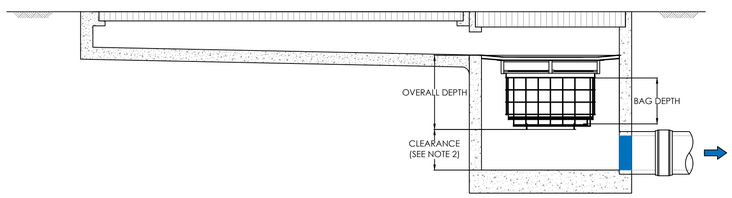


SURFACE FLOW CONFIGURATION



SURFACE FLOW CONFIGURATION

NOTE:
15 PITS ALONG ACCESS ROAD TO BE FITTED WITH OCEANGUARD PROTECT FILTER OR SIMILAR APPROVED PRODUCT.



GRATED STRIP DRAIN CONFIGURATION

OCEANGUARD PROTECT FILTER

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TYPICAL WSUD DETAILS

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

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PROJECT MGR	SMcM

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STORMWATER CATCHMENT AREA
POST DEVELOPMENT

SITE BREAK-UP:

LOT 1 DP 859872 AREA = 55,321.09m^2
ACCESS ROAD AREA = 2,543.19m^2

TOTAL AREA = 57,864.28m^2

POST DEVELOPMENT:

- LANDSCAPE AREA = 31,827.06m^2
- ROOF AREA = 7,398.58m^2
- ROAD AREA = 6,602.79m^2 (38.50% IS ACCESS ROAD)
- TENNIS COURTS = 1,257.91m^2
- EXISTING UNDISTURBED LANDSCAPE AREA = 10,777.94m^2

TOTAL AREA = 57,864.28m^2



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DRAWING TITLE
STORMWATER CATCHMENT PLAN

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

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PROJECT MGR	SMcM

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C070 3

EARTHWORKS LEGEND

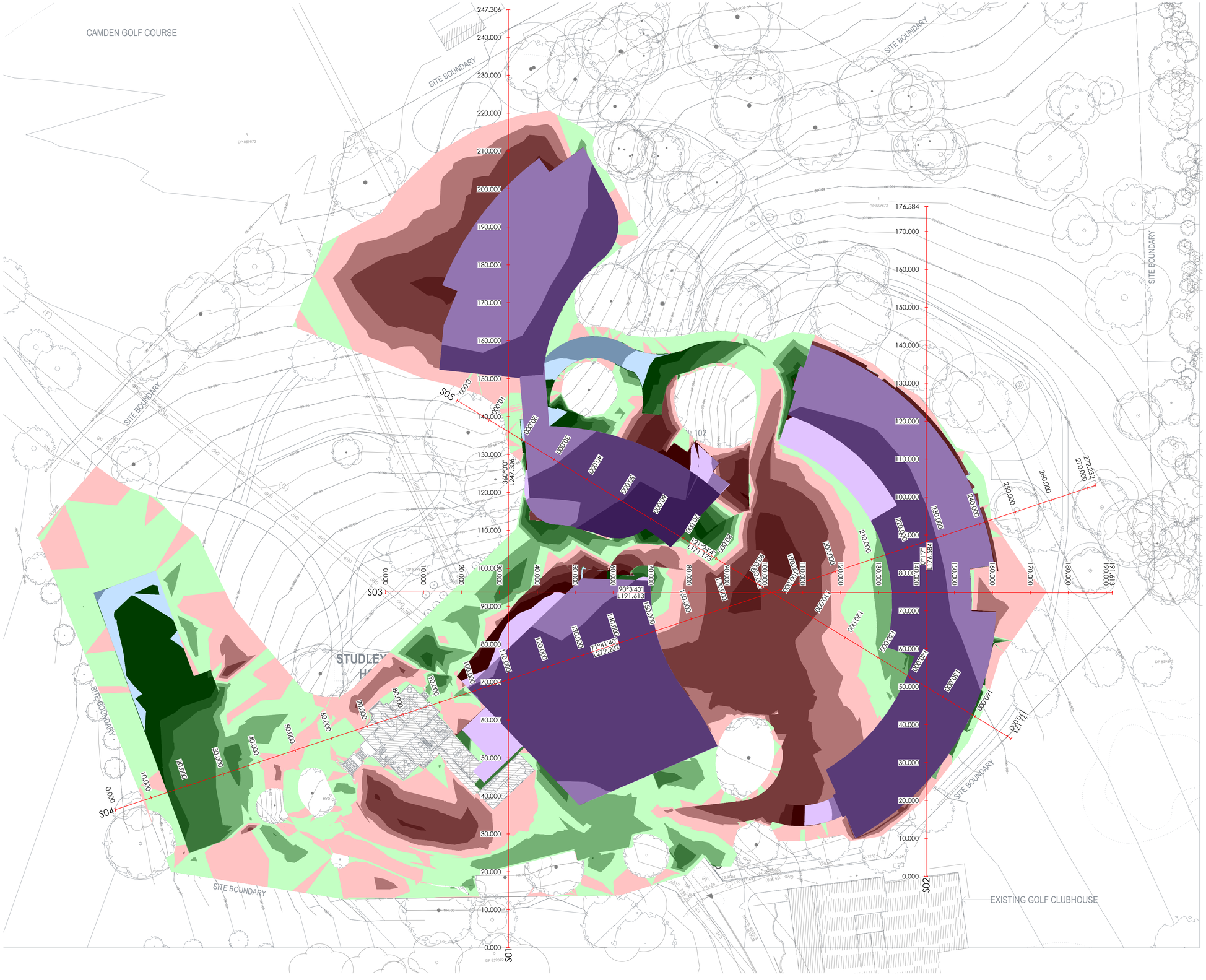
CUT COLOURS	DEPTH OF CUT
	GREATER THAN -12.0m
	- 12.0m TO - 8.00m
	- 8.00m TO - 5.00m
	- 5.00m TO - 3.00m
	- 3.00m TO - 2.00m
	- 2.00m TO - 1.50m
	- 1.50m TO - 1.00m
	- 1.00m TO - 0.50m
	- 0.50m TO - 0.25m
	- 0.25m TO - 0.00m
FILL COLOURS	**DEPTH OF FILL**
	0.00m TO 0.25m
	0.25m TO 0.50m
	0.50m TO 1.00m
	1.00m TO 1.50m
	2.00m TO 3.00m
	3.00m TO 5.00m
	5.00m TO 8.00m
	8.00m TO 12.0m
	GREATER THAN 12.0m

VOLUMES

CUT VOLUME:	-50368.467m^3
FILL VOLUME:	4062.550m^3
BALANCE:	46305.917m^3 (CUT)

NOTE

1. BULK EARTHWORKS ESTIMATES ARE CALCULATED FROM DESIGN SURFACE TO EXISTING SURFACE. NO ALLOWANCE FOR SITE STRIPPING, PAVEMENT BOXING UTILITY TRENCHING OR SUB-SURFACE STRUCTURES HAS BEEN ALLOWED FOR.



BULK EARTH WORKS PLAN

SCALE 1:500

SCALE 1:500

NOT TO BE USED FOR CONSTRUCTION

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PETER MORAN

STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
BULK EARTHWORKS PLAN

PROJECT
STUDLEY PARK

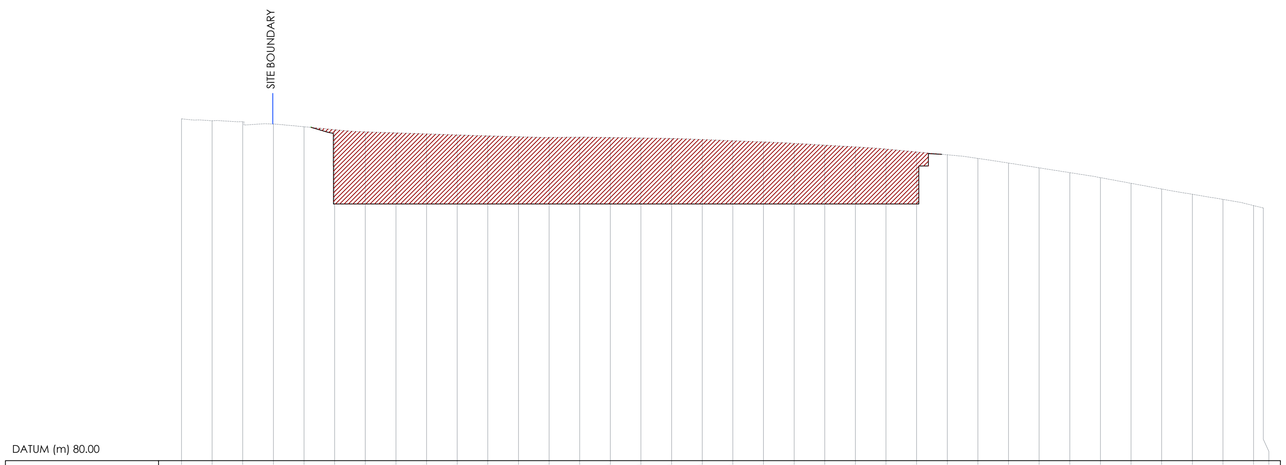
ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	SC
DRAWN	SC
DATE	JUN 2024
DRG SIZE	A1
SCALE	AS NOTED
PROJECT MGR	SMcM

WWW.JN.COM.AU

18010611 C080 3



DATUM (m) 80.00

CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
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5.000	107.739	
10.000	107.660	
15.000	107.474	
20.000	107.251	
25.000	107.009	100.950
30.000	106.834	100.950
35.000	106.750	100.950
40.000	106.667	100.950
45.000	106.583	100.950
50.000	106.504	100.950
55.000	106.434	100.950
60.000	106.381	100.950
65.000	106.401	100.950
70.000	106.371	100.950
75.000	106.333	100.950
80.000	106.293	100.950
85.000	106.206	100.950
90.000	106.108	100.950
95.000	106.011	100.950
100.000	105.891	100.950
105.000	105.748	100.950
110.000	105.605	100.950
115.000	105.426	100.950
120.000	105.194	100.950
125.000	104.961	
130.000	104.666	
135.000	104.288	
140.000	103.896	
145.000	103.505	
150.000	103.097	
155.000	102.634	
160.000	102.172	
165.000	101.739	
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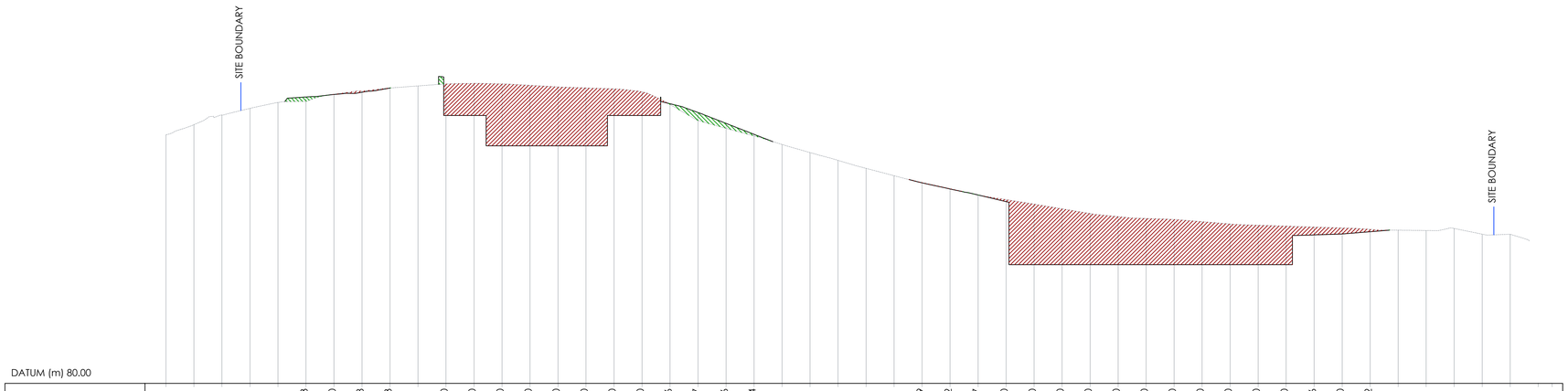
175.000	100.817	
176.584	100.621	

SECTION S02

SCALE 1:500 H
1:250 V



DATUM (m) 80.00

CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
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5.000	103.106	
10.000	103.961	
15.000	104.560	
20.000	105.086	
25.000	105.190	105.573
30.000	105.813	105.800
35.000	106.117	105.998
40.000	106.377	106.373
45.000	106.564	
50.000	106.735	103.920
55.000	106.789	103.920
60.000	106.743	101.220
65.000	106.614	101.220
70.000	106.472	101.220
75.000	106.384	101.220
80.000	106.303	103.920
85.000	106.030	103.920
90.000	104.903	104.976
95.000	103.479	104.187
100.000	102.778	103.216
105.000	102.099	102.244
110.000	101.337	
115.000	100.612	
120.000	99.914	
125.000	99.200	
130.000	98.546	
135.000	97.909	97.909
140.000	97.362	97.362
145.000	96.815	96.827
150.000	96.405	96.230
155.000	96.003	90.600
160.000	95.583	90.600
165.000	95.164	90.600
170.000	94.885	90.600
175.000	94.722	90.600
180.000	94.639	90.600
185.000	94.435	90.600
190.000	94.230	90.600
195.000	94.119	90.600
200.000	94.037	90.600
205.000	93.956	93.256
210.000	93.875	93.340
215.000	93.751	93.542
220.000	93.677	
225.000	93.649	
230.000	93.831	
235.000	93.325	
240.000	93.313	
245.000		
247.306		

SECTION S01

SCALE 1:500 H
1:250 V

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC

Responsive Engineering

CLIENT
PETER MORAN

STATUS
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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
BULK EARTHWORKS SECTIONS - SHEET 1

PROJECT
STUDLEY PARK

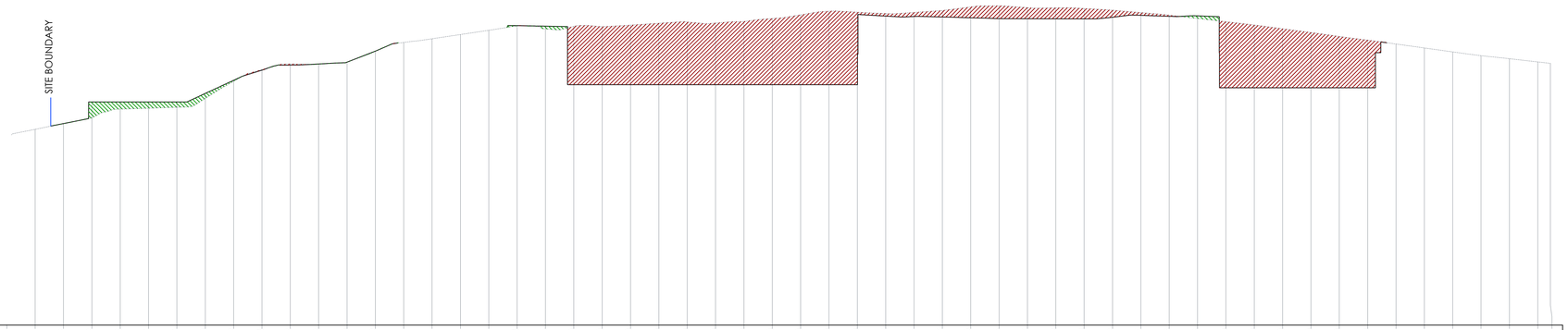
ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	SC
DRAWN	SC
DATE	JUN 2024
DRG SIZE	A1
SCALE	AS NOTED
PROJECT MGR	SMcM

WWW.JN.COM.AU

18010611
C090 3



DATUM (m) 80.00

CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
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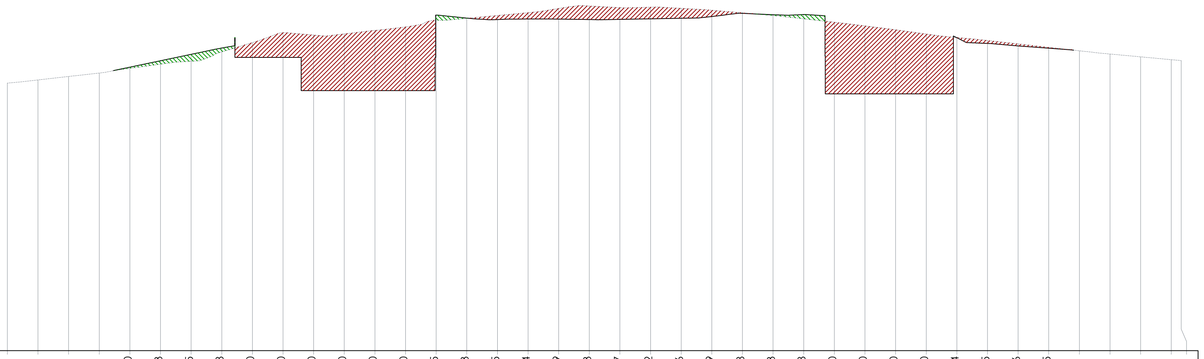
5.000	97.280	
10.000	97.774	97.789
15.000	98.287	99.699
20.000	99.066	99.698
25.000	99.148	99.697
30.000	99.229	99.697
35.000	100.011	100.450
40.000	101.527	101.609
45.000	102.549	102.504
50.000	103.056	102.952
55.000	103.033	103.052
60.000	103.203	103.210
65.000	104.171	104.189
70.000	104.950	
75.000	105.276	
80.000	105.649	
85.000	106.023	
90.000	106.422	106.434
95.000	106.148	106.385
100.000	106.371	101.220
105.000	106.340	101.220
110.000	106.482	101.220
115.000	106.644	101.220
120.000	106.755	101.220
125.000	106.664	101.220
130.000	106.798	101.220
135.000	107.060	101.220
140.000	107.386	101.220
145.000	107.711	101.220
150.000	107.619	101.220
155.000	107.501	107.272
160.000	107.600	107.236
165.000	107.769	107.197
170.000	108.083	107.129
175.000	108.186	107.055
180.000	108.021	107.047
185.000	107.998	107.039
190.000	107.946	107.031
195.000	107.793	107.172
200.000	107.584	107.345
205.000	107.357	107.258
210.000	107.068	107.298
215.000	106.780	100.950
220.000	106.487	100.950
225.000	106.157	100.950
230.000	105.824	100.950
235.000	105.480	100.950
240.000	105.153	100.950
245.000	104.812	
250.000	104.463	
255.000	104.114	
260.000	103.781	
265.000	103.515	
270.000	103.231	
272.232	103.105	

SECTION S04

SCALE 1:500 H
1:250 V



DATUM (m) 80.00

CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
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5.000	102.085	
10.000	102.367	
15.000	102.649	
20.000	103.031	103.130
25.000	103.371	103.653
30.000	103.606	104.175
35.000	104.376	104.688
40.000	105.136	103.920
45.000	105.947	103.920
50.000	105.749	101.220
55.000	105.844	101.220
60.000	106.133	101.220
65.000	106.413	101.220
70.000	106.953	107.375
75.000	107.112	107.133
80.000	107.344	107.015
85.000	107.575	107.054
90.000	107.917	107.049
95.000	108.118	107.013
100.000	107.986	107.027
105.000	108.023	107.072
110.000	107.926	107.116
115.000	107.772	107.259
120.000	107.557	107.518
125.000	107.336	107.413
130.000	107.073	107.428
135.000	106.793	100.950
140.000	106.494	100.950
145.000	106.175	100.950
150.000	105.833	100.950
155.000	105.547	105.534
160.000	105.305	105.065
165.000	105.024	104.856
170.000	104.742	104.675
175.000	104.464	
180.000	104.200	
185.000	103.970	
190.000	103.739	
191.613	103.665	

SECTION S03

SCALE 1:500 H
1:250 V

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC

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CLIENT
PETER MORAN

STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
BULK EARTHWORKS SECTIONS - SHEET 2

PROJECT
STUDLEY PARK

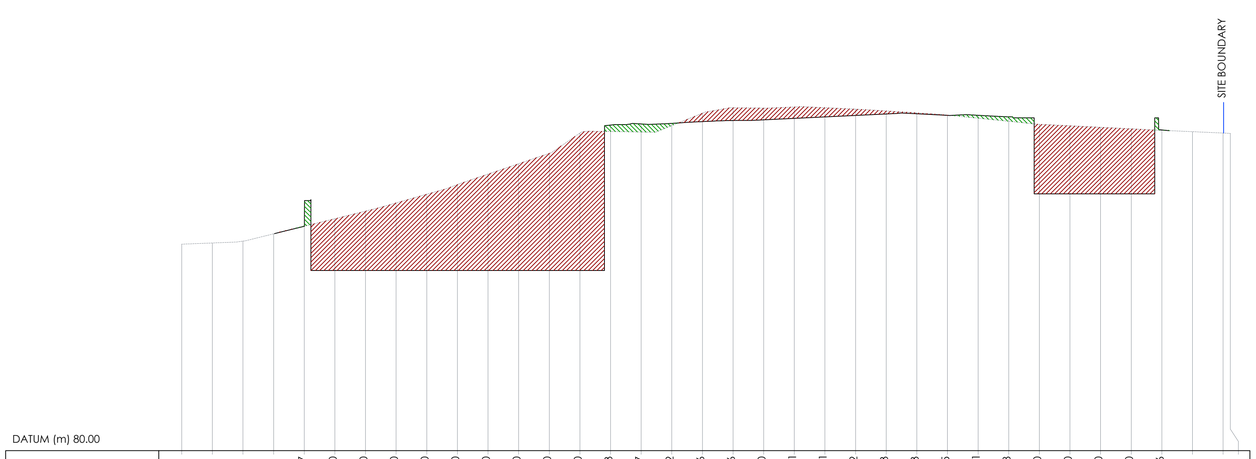
ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	SC
DRAWN	SC
DATE	JUN 2024
DRG SIZE	A1
SCALE	AS NOTED
PROJECT MGR	SMcM

WWW.JN.COM.AU

18010611
C091 3



DATUM (m) 80.00

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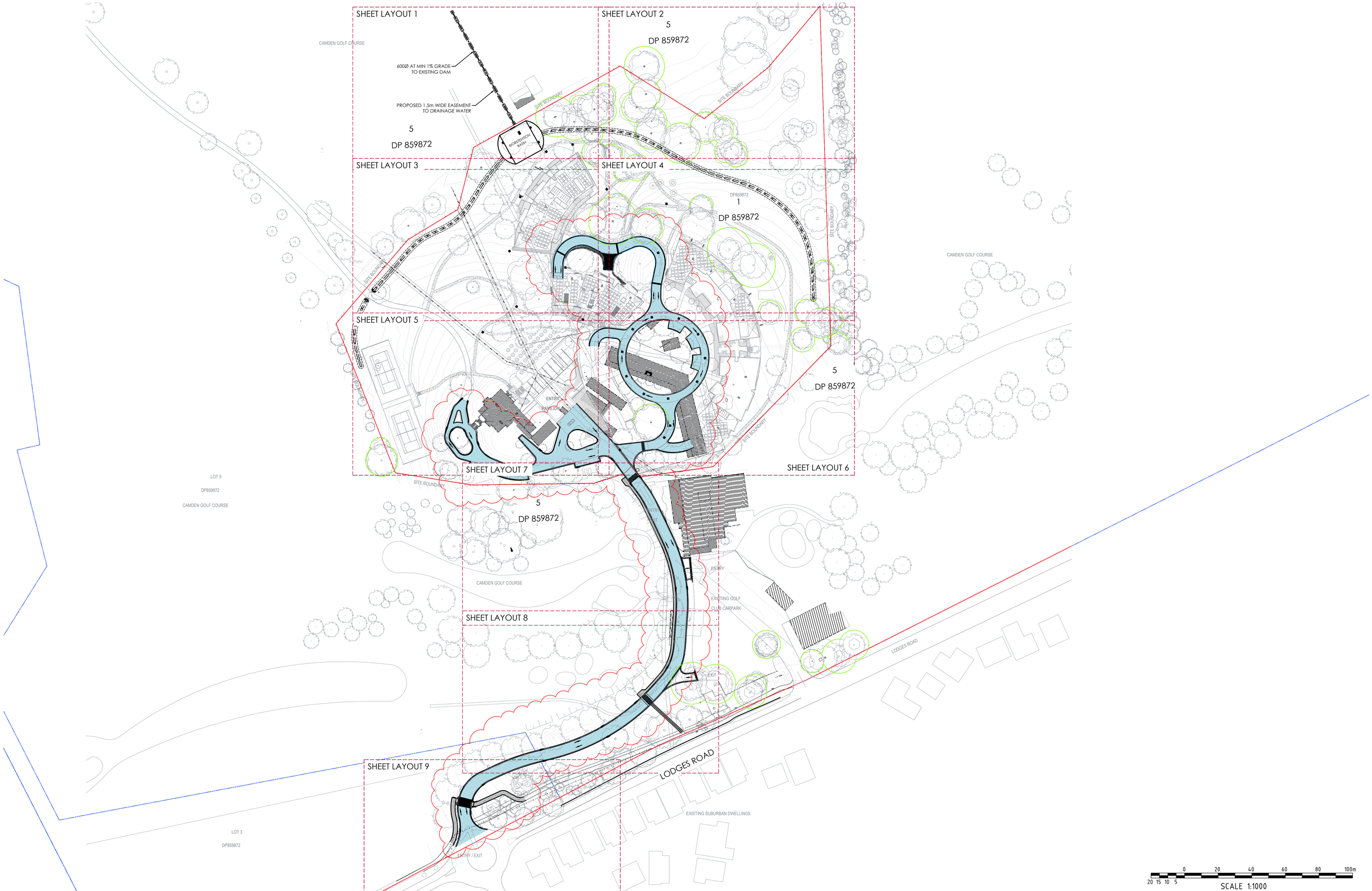

SITE PLAN - OVERALL

SCALE 1:1000

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
SITE PLAN
OVERALL

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:1000
PROJECT MGR	SMcM

WWW.JN.COM.AU

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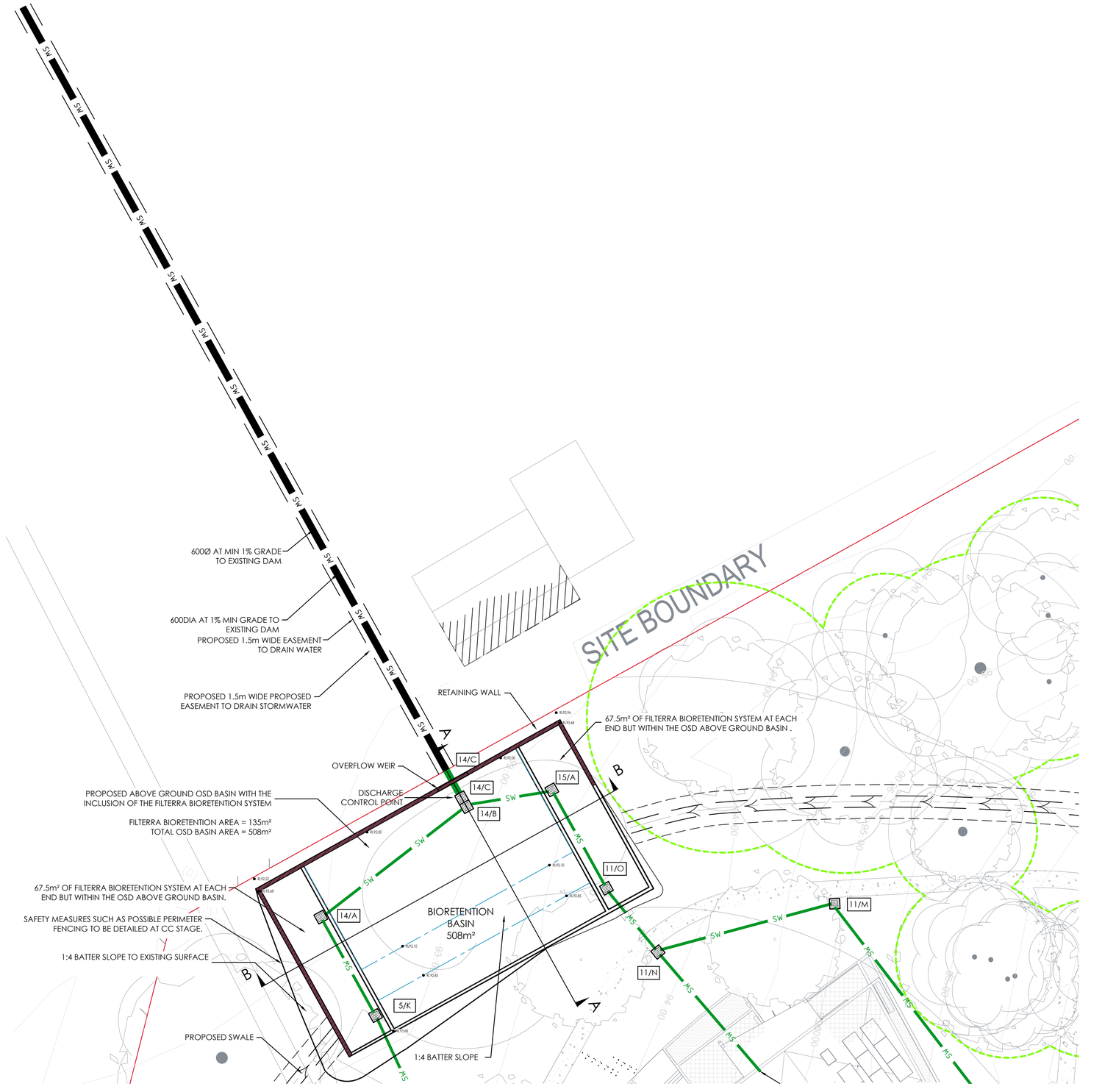
DP 859872



GENERAL ARRANGEMENT PLAN - SHEET 1

SCALE 1:200

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
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3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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PETER MORAN

STATUS
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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
GENERAL ARRANGEMENT PLAN - SHEET 1

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

WWW.JN.COM.AU

18010611

C110 4

5

DP 859872

SITE BOUNDARY

PROPOSED SWALE

PROPOSED SWALE

GENERAL ARRANGEMENT PLAN - SHEET 2

SCALE 1:200

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4 3 2 1

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
GENERAL ARRANGEMENT PLAN - SHEET 2

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

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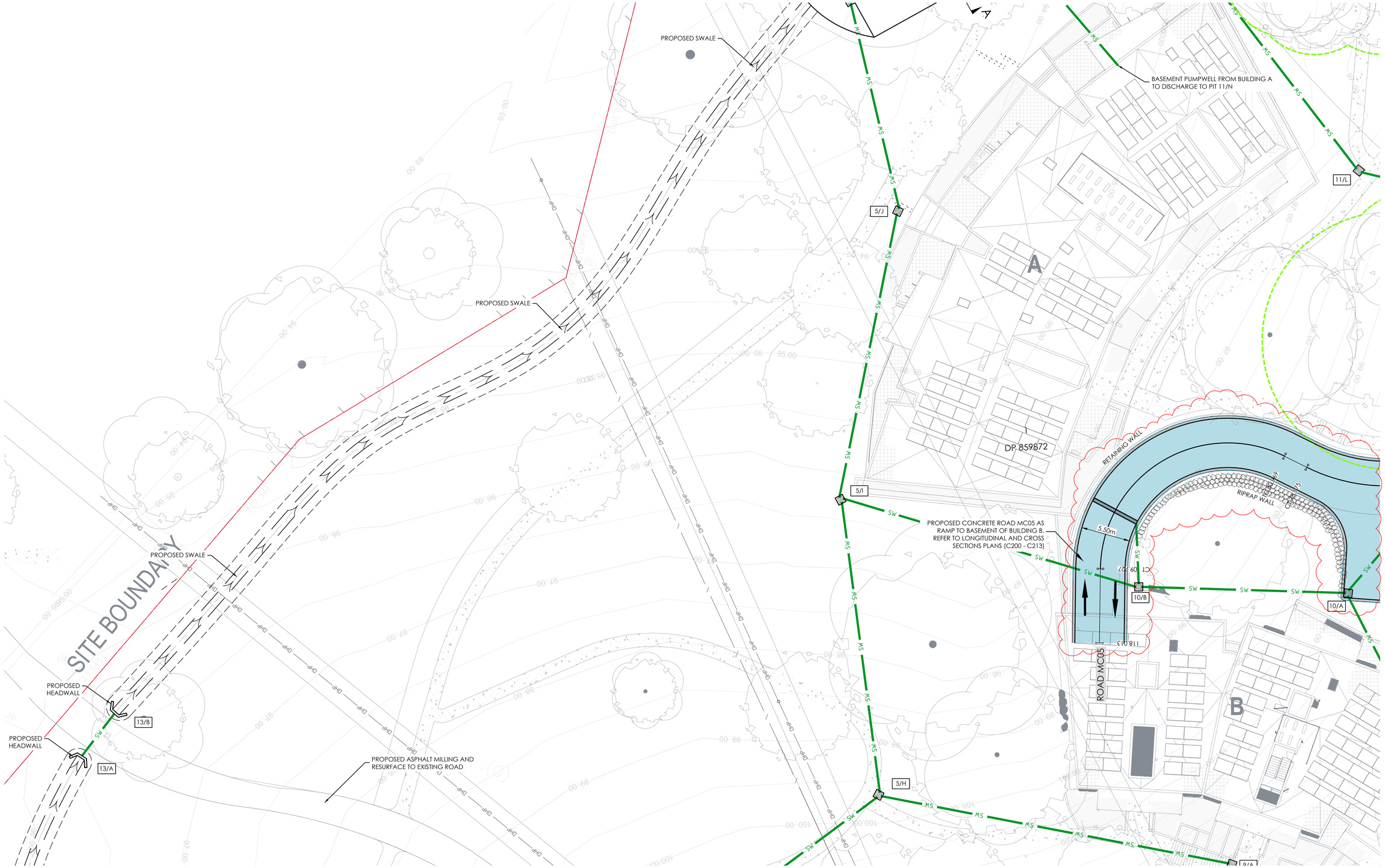

GENERAL ARRANGEMENT PLAN - SHEET 3

SCALE 1:200

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
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2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
GENERAL ARRANGEMENT PLAN - SHEET 3

PROJECT
STUDLEY PARK

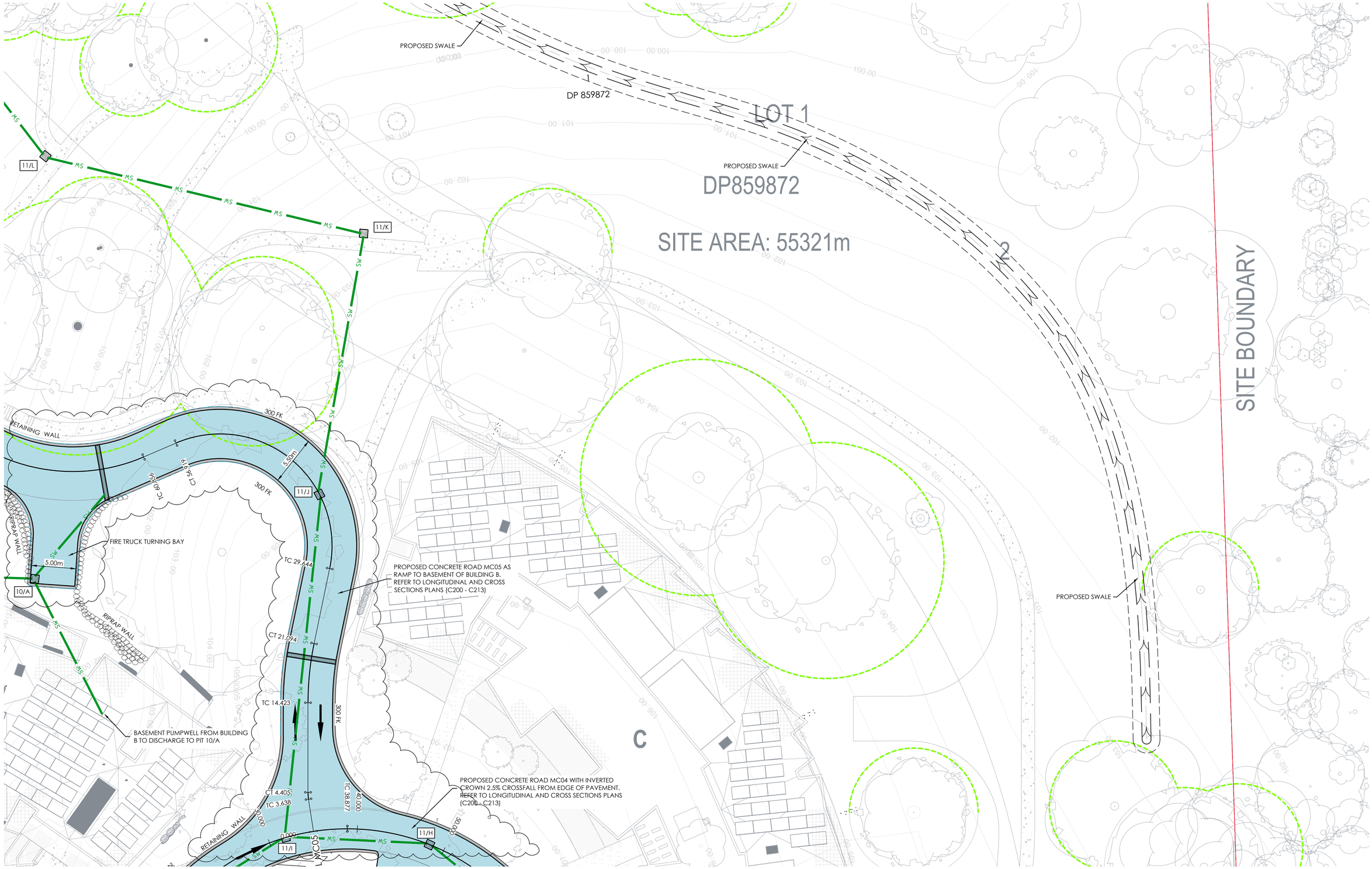
ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMCM

WWW.JN.COM.AU

18010611
C112 3



GENERAL ARRANGEMENT PLAN - SHEET 4

SCALE 1:200

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SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
GENERAL ARRANGEMENT PLAN - SHEET 4

PROJECT
STUDLEY PARK

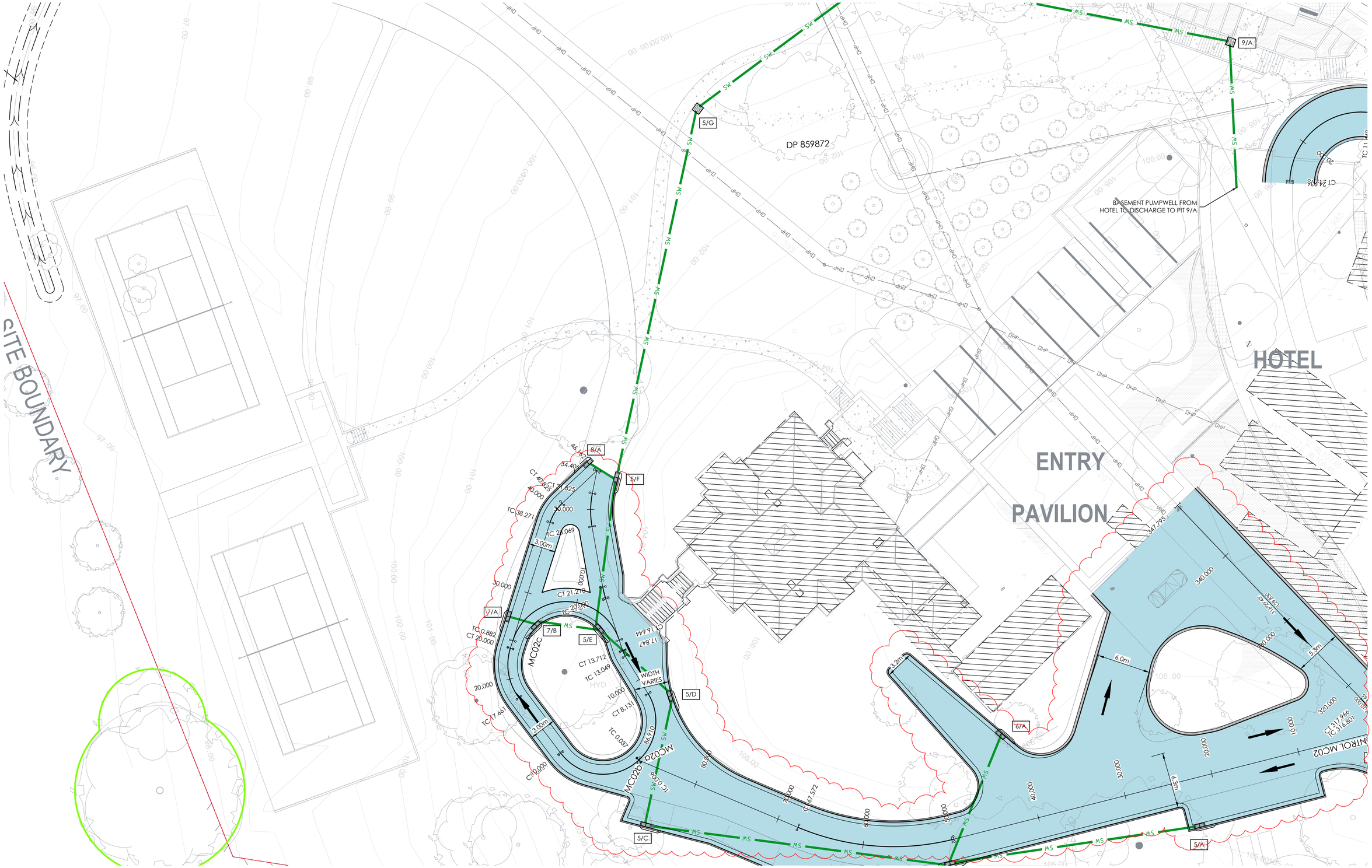
ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

WWW.JN.COM.AU

18010611
C113 3



GENERAL ARRANGEMENT PLAN - SHEET 5

SCALE 1:200

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

JN Responsive Engineering

CLIENT
PETER MORAN

STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
GENERAL ARRANGEMENT PLAN - SHEET 5

PROJECT
STUDLEY PARK

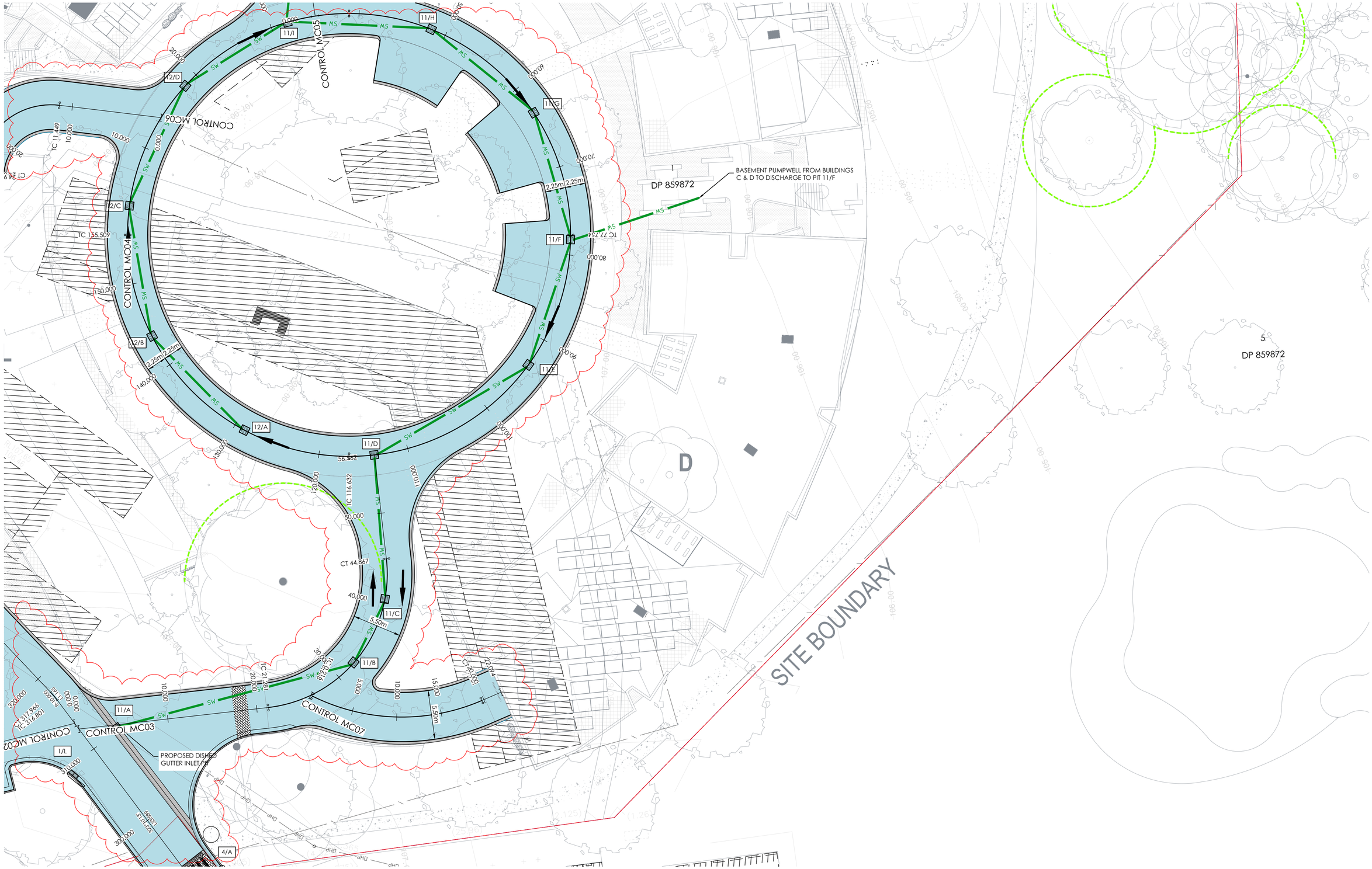
ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMGM
WWW.JN.COM.AU	

18010611

C114 3



GENERAL ARRANGEMENT PLAN - SHEET 6

SCALE 1:200

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SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

JN Responsive Engineering

CLIENT
PETER MORAN

STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
GENERAL ARRANGEMENT PLAN - SHEET 6

PROJECT
STUDLEY PARK

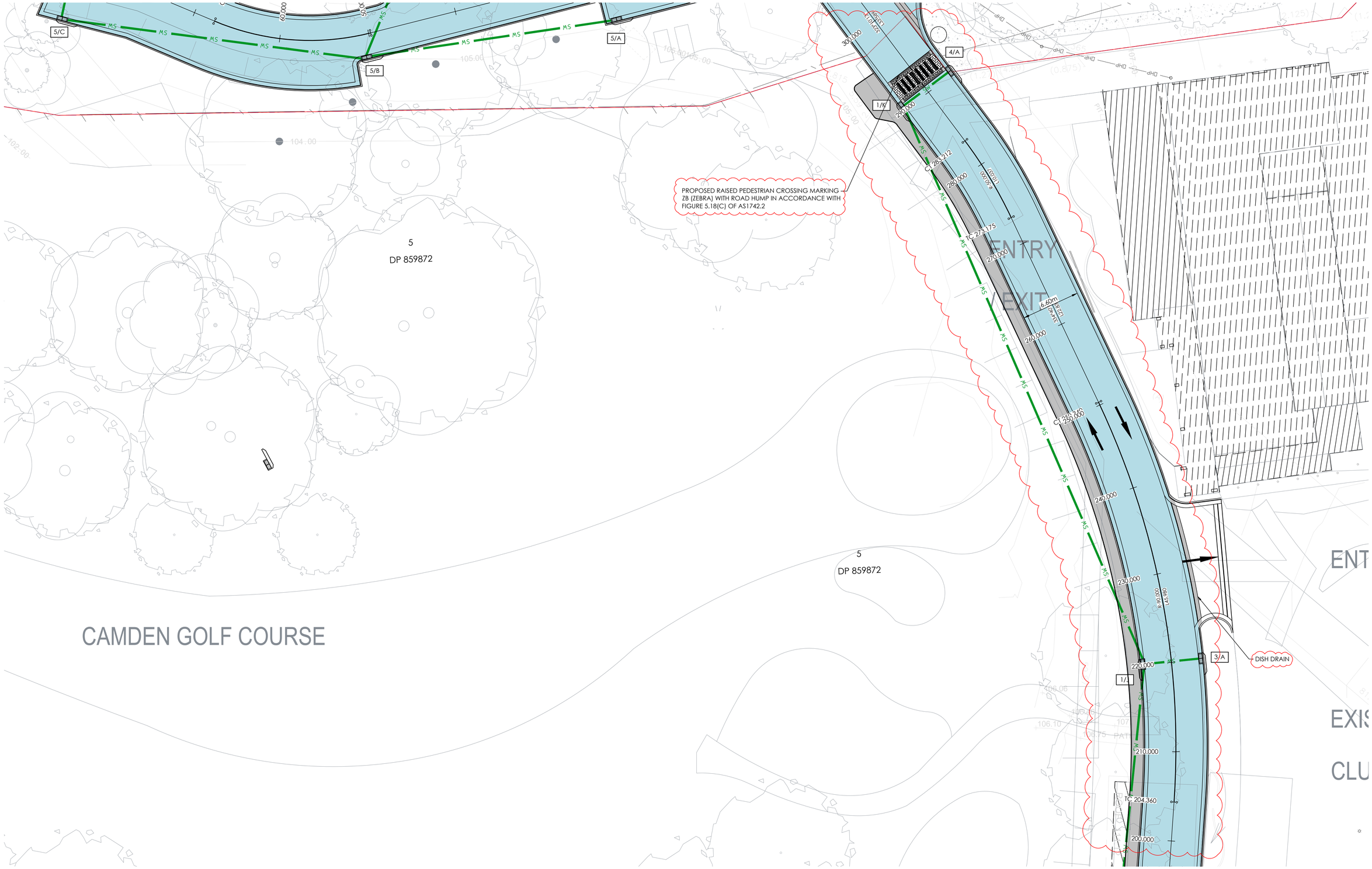
ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

WWW.JN.COM.AU

18010611
C115 3



GENERAL ARRANGEMENT PLAN - SHEET 7

SCALE 1:200

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

JN Responsive Engineering

CLIENT
PETER MORAN

STATUS
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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
GENERAL ARRANGEMENT PLAN - SHEET 7

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

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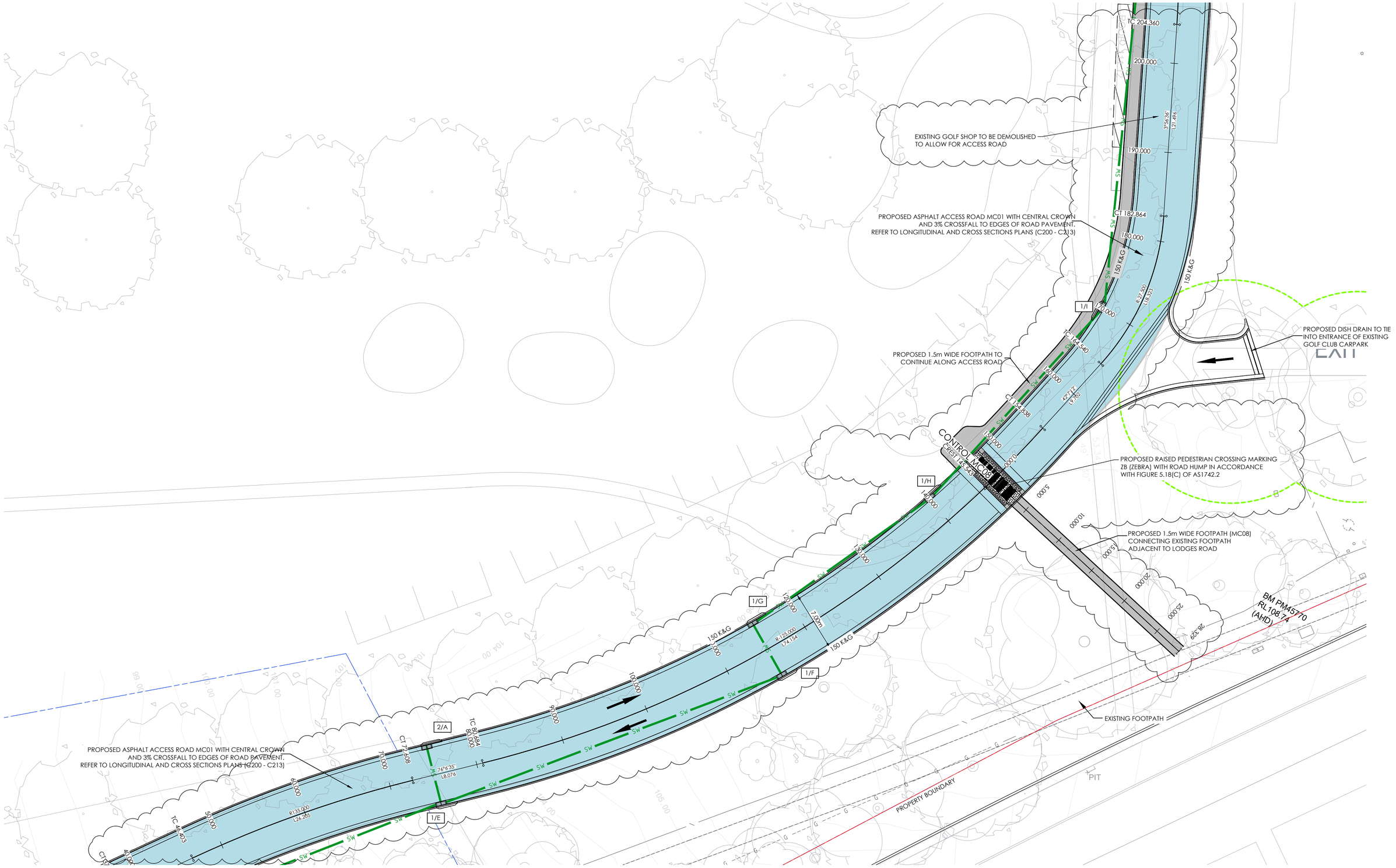
18010611
C116 3



GENERAL ARRANGEMENT PLAN - SHEET 8

SCALE 1:200

SCALE 1:200 (4 3 2 1) 0 4 8 12 16 20m

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AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DRAWING TITLE
GENERAL ARRANGEMENT PLAN - SHEET 8

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

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DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

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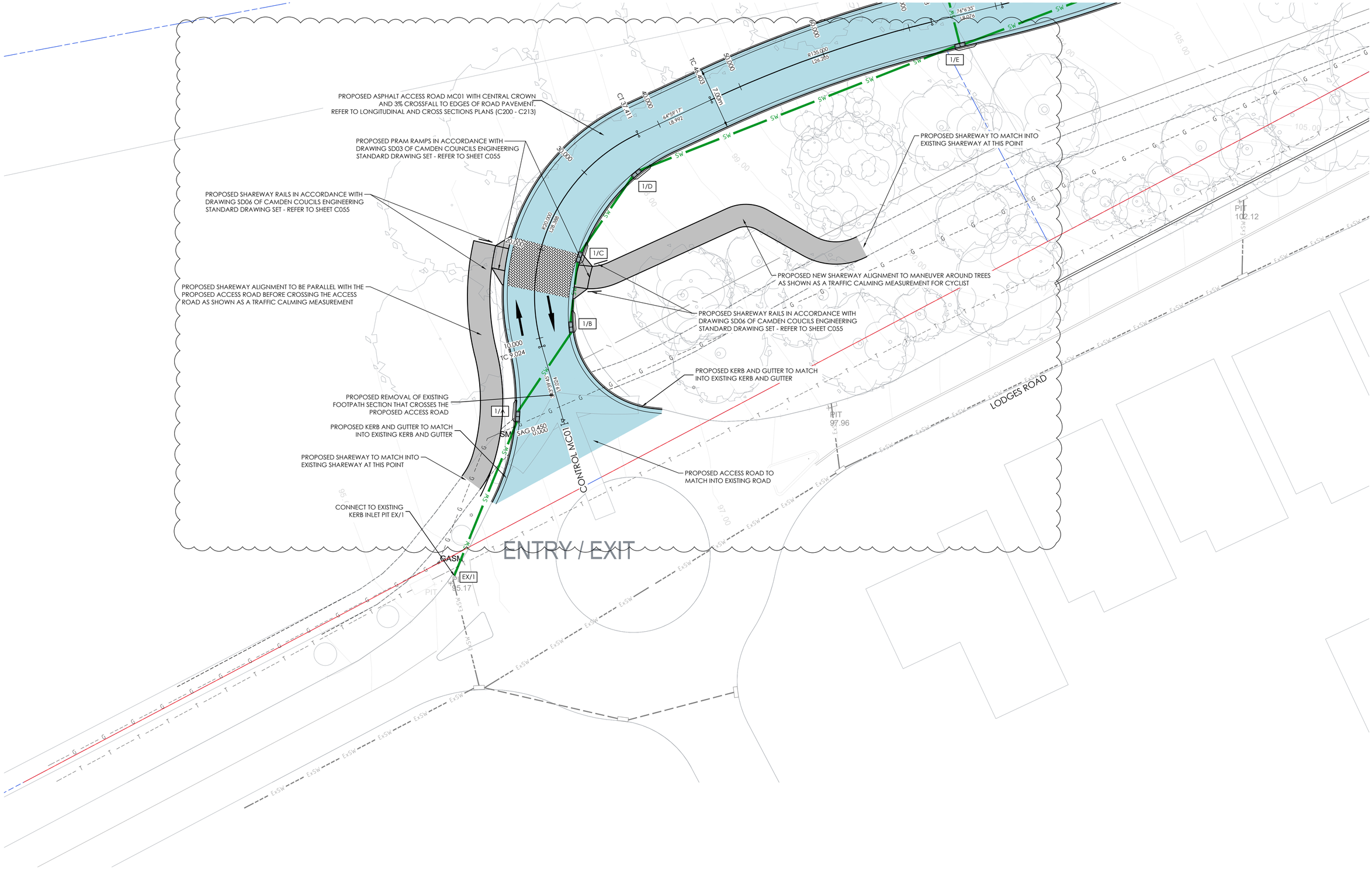

GENERAL ARRANGEMENT PLAN - SHEET 9

SCALE 1:200

SCALE 1:200

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3	26.08.24	RE-ISSUE FOR DA	SC
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1	11.03.22	DA ISSUE - CIVIL	AW

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CIVIL DESIGN

DRAWING TITLE
GENERAL ARRANGEMENT PLAN - SHEET 9

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMCM

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C118 3

SIGN LEGEND

	R2-4n	PROPOSED NO ENTRY SIGN 'R2-4n' AS PER AS1742.13
	NA	PROPOSED SERVICE VEHICLES ONLY SIGN
	R1-3	PROPOSED ROUNDABOUT GIVEWAY SIGN 'R1-3' AS PER AS1742.13
	D4-1-1	PROPOSED UNIDIRECTIONAL HAZARD BOARD SIGN 'D4-1-1' AS PER AS1742.13
	R4-4	PROPOSED SHARED ZONE SIGN 'R4-4' AS PER AS1742.4
	R4-5	PROPOSED END SHARED ZONE SIGN 'R4-5' AS PER AS1742.4
	G9-63(L)	PROPOSED BICYCLE (SYMBOL) CROSS HERE WITH CARE (LEFT ARROW) SIGN 'G9-63(L)' AS PER AS1742.9
	G9-63(R)	PROPOSED BICYCLE (SYMBOL) CROSS HERE WITH CARE (RIGHT ARROW) SIGN 'G9-63(R)' AS PER AS1742.9
	G9-245n	PROPOSED LEFT TURN WATCH FOR CYCLIST SIGN 'G9-245n'
	R3-1	PROPOSED PEDESTRIAN CROSSING SIGN 'R3-1' AS PER AS1742.10
	W6-2	PROPOSED PEDESTRIAN CROSSING AHEAD SIGN 'W6-2' AS PER AS1742.10
	W5-10	PROPOSED ROAD HUMP SIGN 'W5-10' AS PER AS1742.13
	W8-207n(L)	PROPOSED 100m ON LEFT SIGN 'W8-207n(L)'
	R2-3(L)	PROPOSED KEEP LEFT SIGN 'R2-3(L)' AS PER AS1742.13
	RD165	PROPOSED NO PARKING TURNING BAY ONLY SIGN

LINE MARKING LEGEND



SIGNAGE AND LINE MARKING PLAN - SHEET 1

SCALE 1:200

0 4 8 12 16 20m
4 3 2 1
SCALE 1:200

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DRAWING TITLE
SIGNAGE AND LINE MARKING PLAN - SHEET 1

PROJECT
STUDLEY PARK

ADDRESS
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NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
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DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

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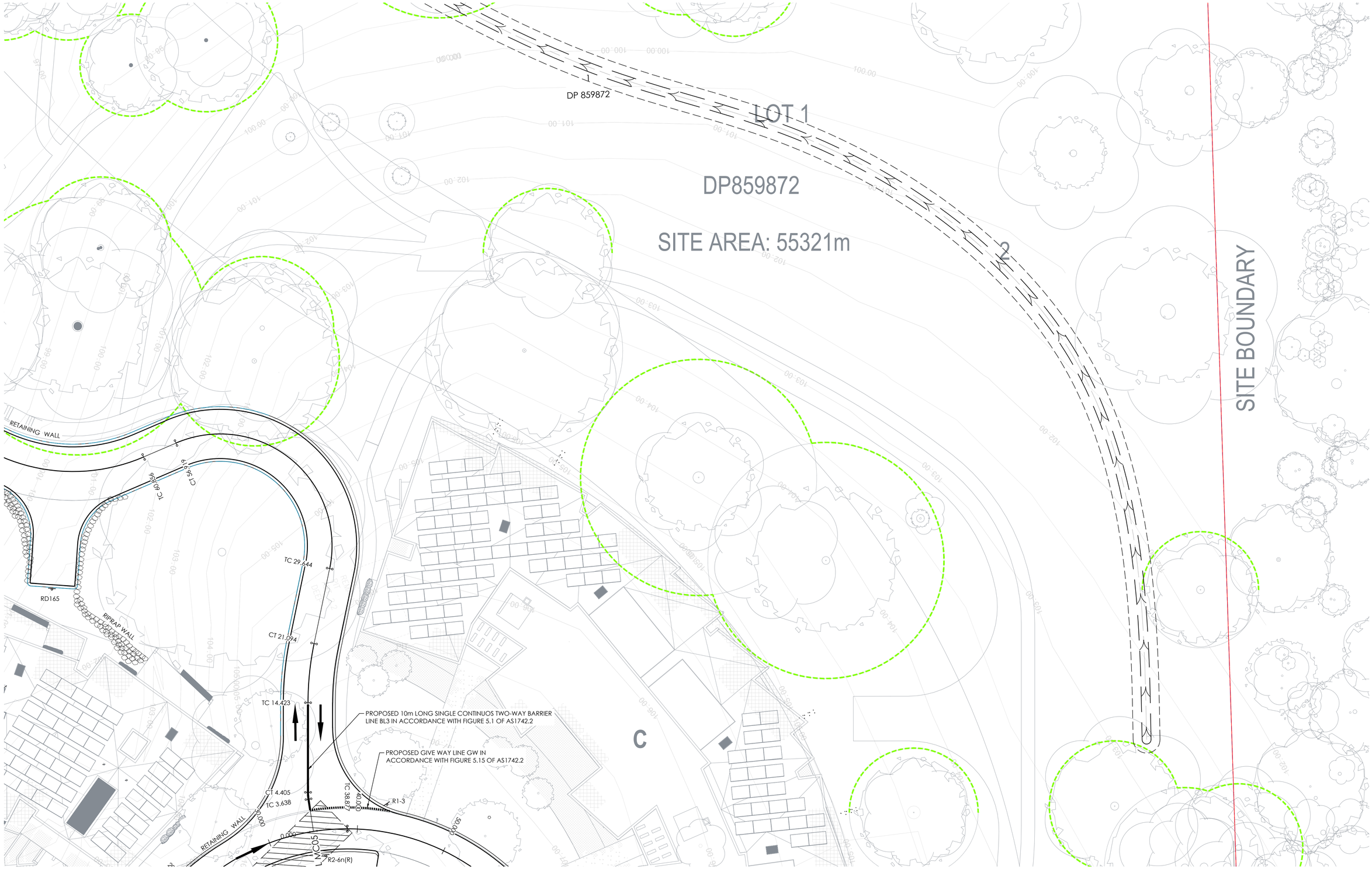

SIGNAGE AND LINE MARKING PLAN - SHEET 2

SCALE 1:200

0 4 8 12 16 20m
4 3 2 1
SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

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SIGNAGE AND LINE MARKING PLAN - SHEET 2

PROJECT
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PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

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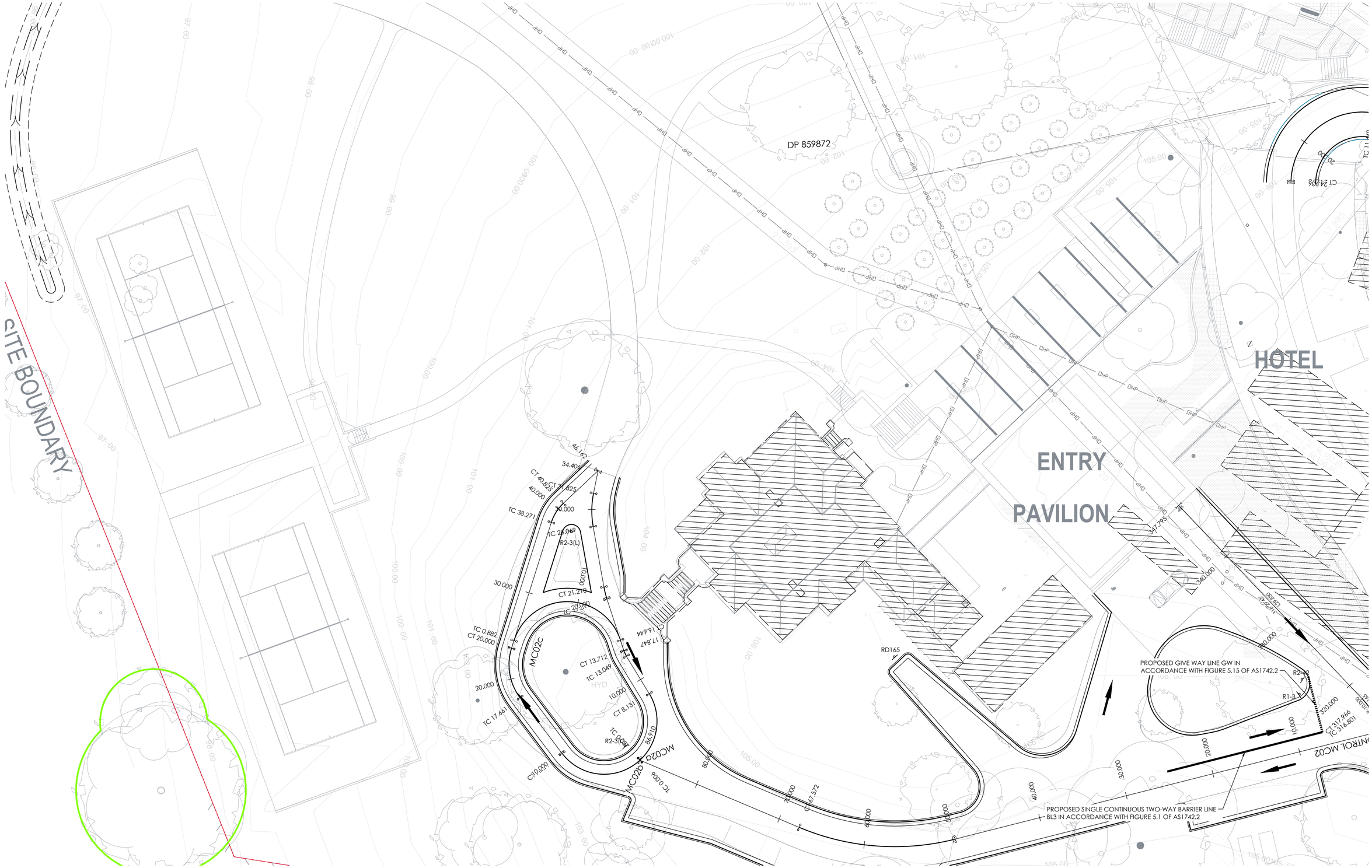

SIGNAGE AND LINE MARKING PLAN - SHEET 3

SCALE 1:200

0 4 8 12 16 20m

4 3 2 1

SCALE 1:200

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SIGNAGE AND LINE MARKING PLAN - SHEET 3

PROJECT
STUDLEY PARK

ADDRESS
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DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMGM

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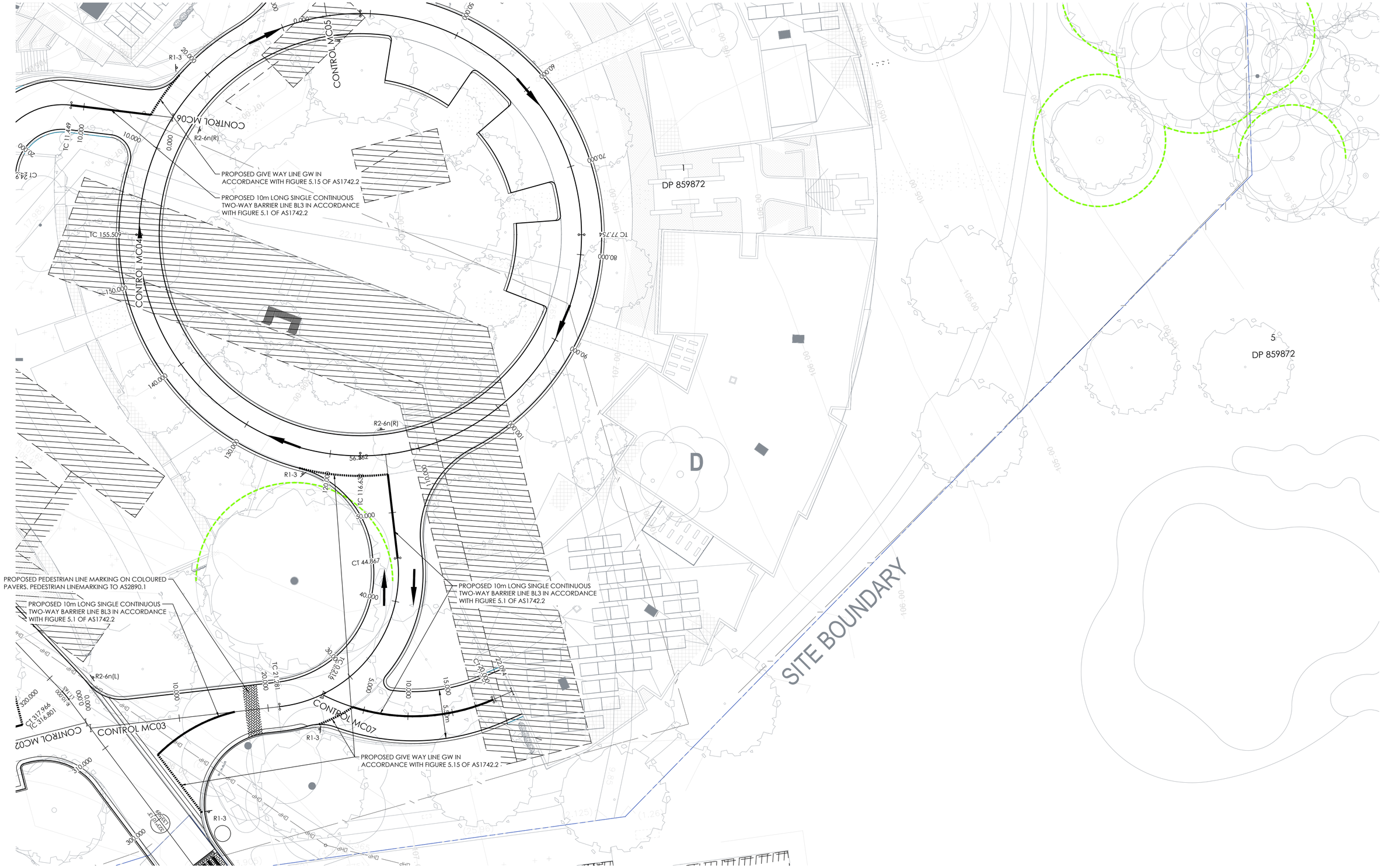

SIGNAGE AND LINE MARKING PLAN - SHEET 4

SCALE 1:200

0 4 8 12 16 20m

4 3 2 1

SCALE 1:200

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SIGNAGE AND LINE MARKING PLAN - SHEET 4

PROJECT
STUDLEY PARK

ADDRESS
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NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT	SMGM
MGR	

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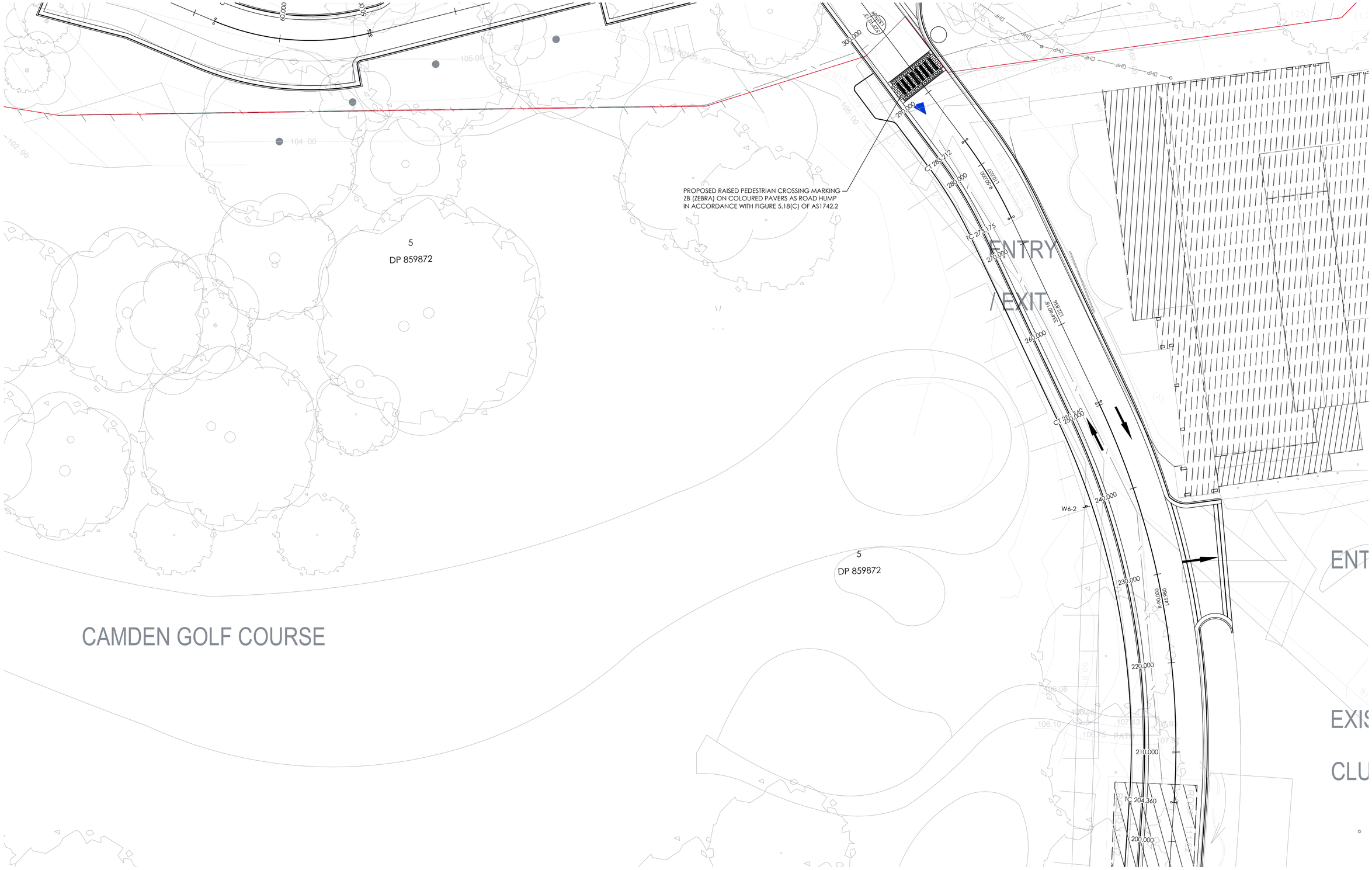

SIGNAGE AND LINE MARKING PLAN - SHEET 5

SCALE 1:200

SCALE 1:200

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SIGNAGE AND LINE MARKING PLAN - SHEET 5

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

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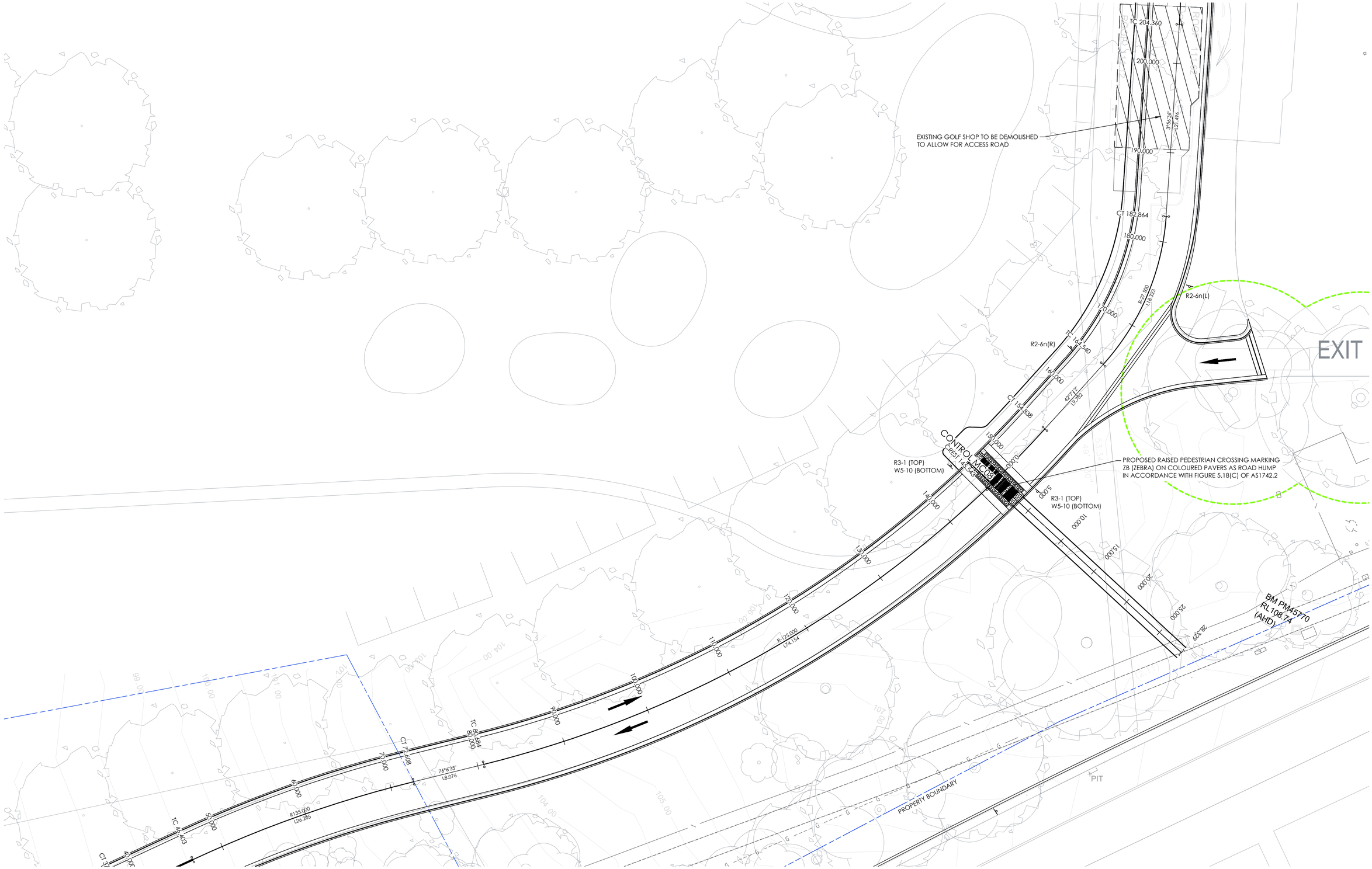
C154 3



SIGNAGE AND LINE MARKING PLAN - SHEET 6

SCALE 1:200

0 4 8 12 16 20m
4 3 2 1
SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
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DRAWING TITLE
SIGNAGE AND LINE MARKING PLAN - SHEET 6

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

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18010611
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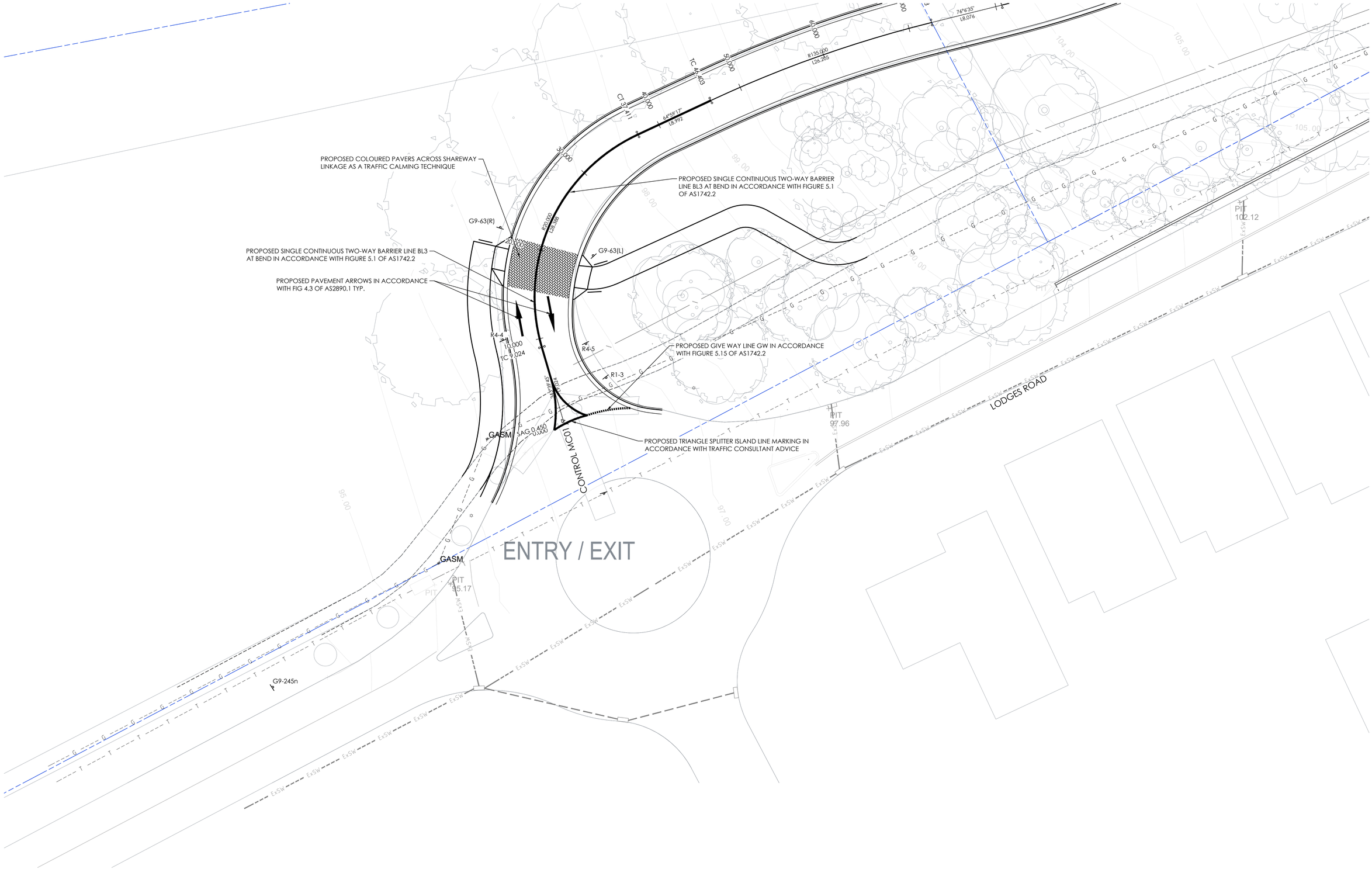

SIGNAGE AND LINE MARKING PLAN - SHEET 7

SCALE 1:200

0 4 8 12 16 20m

4 3 2 1

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC

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SIGNAGE AND LINE MARKING PLAN - SHEET 7

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB '22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

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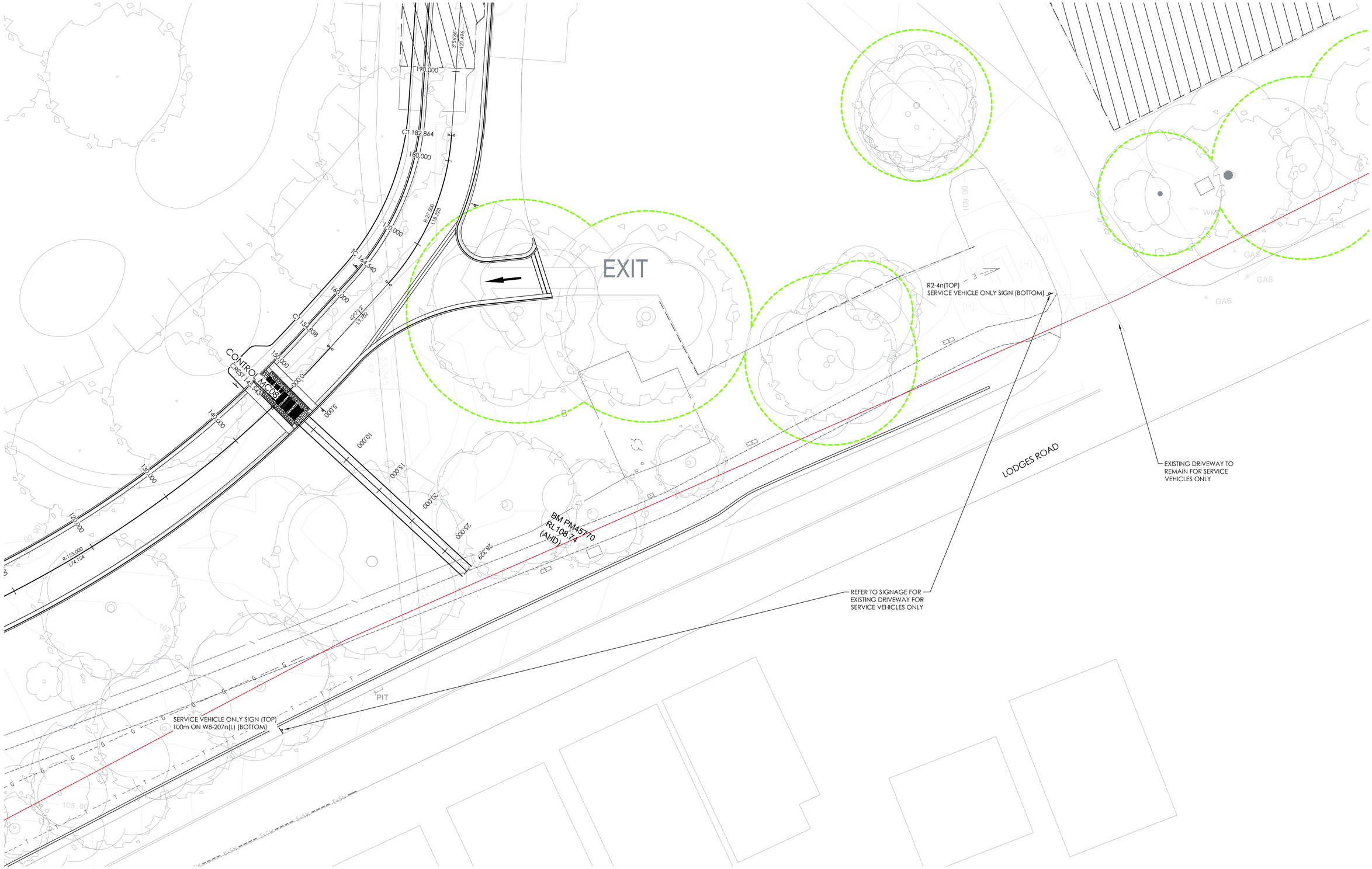
C156 3



SIGNAGE AND LINE MARKING PLAN - SHEET 8

SCALE 1:200

0 4 8 12 16 20m
4 3 2 1
SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
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SIGNAGE AND LINE MARKING PLAN - SHEET 8

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT	SMcM
MGR	

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C157 3

LEGEND

SYMBOL	DESCRIPTION
●	DRIVERS POSITION AS PER AS2890.1
— — — —	SIGHT DISTANCE (MINIMUM) AS PER AS2890.1
— — — —	SIGHT DISTANCE (DESIRABLE 5s GAP) AS PER AS2890.1
— — — —	LOCAL RESIDENTIAL STREET ROUNDABOUT CRITICAL ACCEPTANCE DISTANCE (4 SECONDS) AS PER TABLE 3.1 OF GUIDE TO ROAD DESIGN PART 4B: ROUNDABOUTS OF THE AUSTROADS GUIDELINES
○	MAINTAIN A MINIMUM OF 2m VERTICAL CLEARANCE UNDER THE CANAPY TREES TO ACHIEVE MINIMUM SSD AND DESIRABLE 5s GAP AS PER FIGURE 3.2 OF AS2890.1.
○	EXISTING TREE TO BE REMOVED

A MINIMUM OF 2m VERTICAL CLEARANCE UNDER THE CANAPY TREES (DENOTED IN RED DASHED CIRCLE) NEEDS TO BE MAINTAINED TO ACHIEVE MINIMUM SSD AND DESIRABLE 5s GAP AS PER FIGURE 3.2 OF AS2890.1.

EXISTING TREE TO BE REMOVED AS IT IS WITHIN THE SIGHT DISTANCE LINE

SIGHT DISTANCES ARE CLEAR FROM EXISTING RETAINING WALL

DRIVERS POSITION LOCATED 2.5m FROM EDGE OF ROAD BITUMEN AS PER FIGURE 3.2 OF AS2890.1

REMOVE EXISTING TREES

A MINIMUM OF 2m VERTICAL CLEARANCE UNDER THE CANAPY TREES (DENOTED IN RED DASHED CIRCLE) NEEDS TO BE MAINTAINED TO ACHIEVE MINIMUM SSD AND DESIRABLE 5s GAP AS PER FIGURE 3.2 OF AS2890.1.

STOPPING SIGHT DISTANCE (MINIMUM): REQUIRED DISTANCE = 45m FOR FRONTAGE ROAD SPEED OF 50 km/h AS PER FIGURE 3.2 OF AS 2890.1,

EXISTING BUS SHELTER

EXISTING BUS STOP

STOPPING SIGHT DISTANCE (DESIRABLE 5s GAP): REQUIRED DISTANCE = 69m FOR FRONTAGE ROAD SPEED OF 50 km/h AS PER FIGURE 3.2 OF AS2890.1.

ON STREET PARALLEL PARKING AREA BEYOND BUS STOP

STOPPING SIGHT DISTANCE (DESIRABLE 5s GAP): REQUIRED DISTANCE = 69m FOR FRONTAGE ROAD SPEED OF 50 km/h AS PER FIGURE 3.2 OF AS2890.1.

STOPPING SIGHT DISTANCE (MINIMUM): REQUIRED DISTANCE = 45m FOR FRONTAGE ROAD SPEED OF 50 km/h AS PER FIGURE 3.2 OF AS 2890.1,

EXISTING HOLDING LINE OF APPROACHING CAR

EXISTING HOLDING LINE OF APPROACHING CAR

ENTRY / EXIT

LODGES ROAD

CONTROL MOUTH

GASM

PIT 97.96

PIT 95.17

PIT 102.12

SCALE 1:200

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SIGHT DISTANCE PLAN - ACCESS ROAD INTERSECTION WITH LODGES ROAD

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS	
DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

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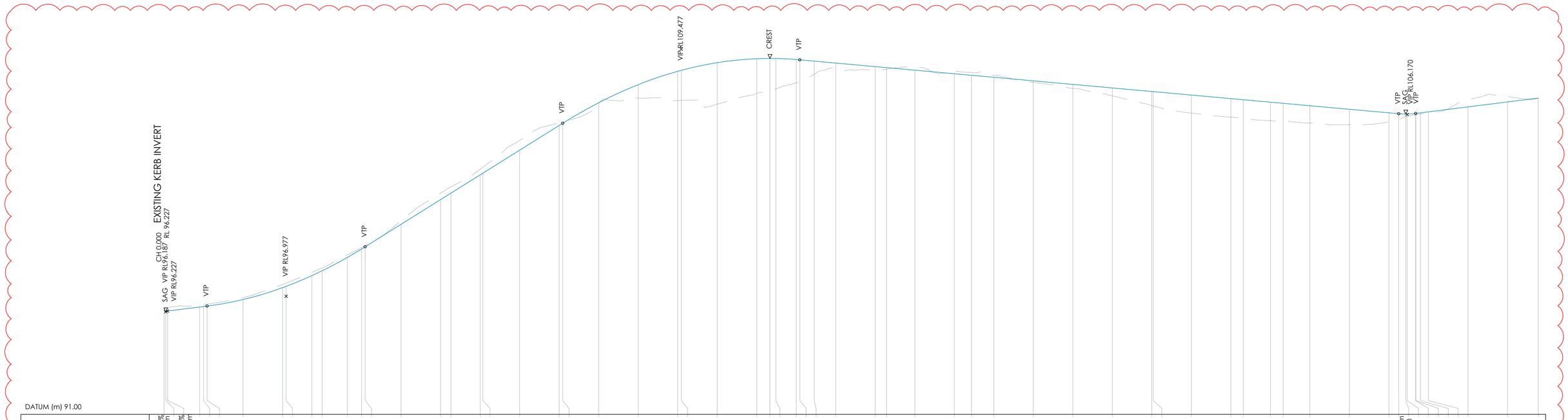
C170 1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VTP
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VTP
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VIP RL106.170

DATUM (m) 91.00

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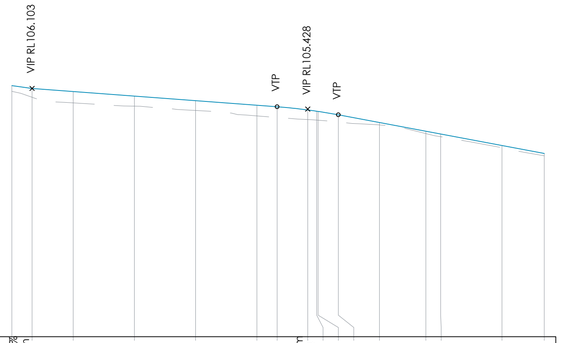

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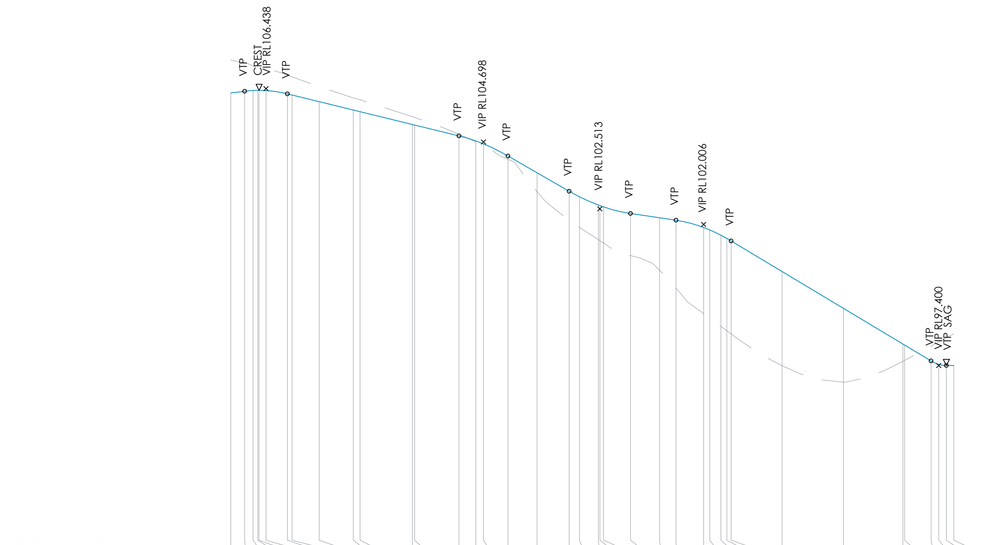
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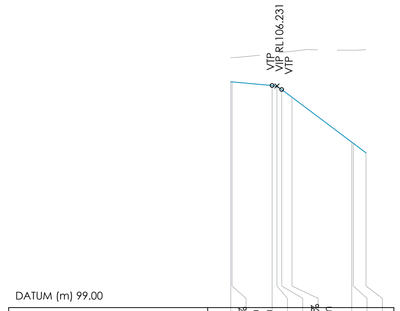

DATUM (m) 99.00

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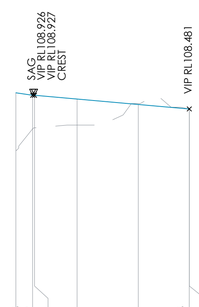
HEIGHT DIFFERENCES	0.791	0.796	1.038	1.098	1.209	1.498	2.997	3.035	3.364													
DESIGN LEVELS	106.367	106.363	106.246	106.206	106.115	105.864	104.402	104.364	104.050													
EXISTING LEVELS	107.157	107.158	107.284	107.304	107.324	107.362	107.399	107.399	107.414													
CHAINAGE	0.000	0.216	6.764	7.551	8.330	10.000	19.751	20.000	22.094													

LONGITUDINAL SECTION CONTROL MC07

SCALE 1:500 H
1:100 V

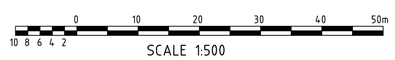


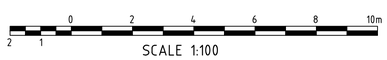
DATUM (m) 102.00

VERTICAL GEOMETRY	G=-0.996% L=5.000m K=-200.803	G=-5.000% L=25.304m					G=-1.764% L=25.268m												G=4.088% L=0.010m			
HORIZONTAL GEOMETRY	L=28.329m																					
HEIGHT DIFFERENCES	-1.894	-1.095	-1.061	-0.850	0.030	0.000	0.000															
DESIGN LEVELS	109.007	108.926	108.927	108.804	108.628	108.481	108.480															
EXISTING LEVELS	107.112	107.832	107.866	107.954	108.657	108.481	108.480															
CHAINAGE	0.000	2.749	3.051	10.000	20.000	28.319	28.329															

LONGITUDINAL SECTION CONTROL MC08

SCALE 1:500 H
1:100 V





NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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PETER MORAN

STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
LONGITUDINAL SECTIONS
PLAN - SHEET 4

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	AW
DATE	FEB 22
DRG SIZE	A1
SCALE	AS SHOWN
PROJECT MGR	SMcM

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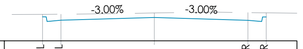
18010611
C203 3

CENTRELINE
X = 290442.290
Y = 6229719.263
Z = 98.263

DATUM RL 97.5



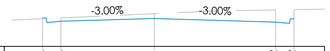
FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	98.281	98.171		98.263	98.171	98.281
EXISTING LEVELS	98.365	98.368		98.408	98.422	98.414
OFFSET	-3.650	-3.050		0.000	3.054	3.654

SCALE 1:100 H
1:100 V

CH 40.000

CENTRELINE
X = 290433.954
Y = 6229713.875
Z = 97.410

DATUM RL 96.5



FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	97.429	97.319		97.410	97.291	97.401
EXISTING LEVELS	97.403	97.430		97.567	97.690	97.699
OFFSET	-3.650	-3.050		0.000	3.959	4.559

SCALE 1:100 H
1:100 V

CH 30.000

CENTRELINE
X = 290429.092
Y = 6229705.256
Z = 96.808

DATUM RL 96.0

FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	96.826	96.716		96.808	96.684	96.794
EXISTING LEVELS	96.744	96.775		96.895	97.117	97.149
OFFSET	-3.650	-3.050		0.000	4.118	4.718

SCALE 1:100 H
1:100 V

CH 20.000

CENTRELINE
X = 290429.208
Y = 6229694.418
Z = 96.430

DATUM RL 95.5



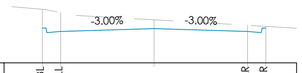
FEATURE CODES					KLR	KBR
DESIGN LEVELS	96.430				96.330	96.440
EXISTING LEVELS	96.533				96.729	96.774
OFFSET	0.000				3.316	3.916

SCALE 1:100 H
1:100 V

CH 9.024

CENTRELINE
X = 290479.939
Y = 6229732.457
Z = 103.114

DATUM RL 102.0



FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	103.133	103.023		103.114	103.023	103.133
EXISTING LEVELS	103.747	103.642		103.403	103.223	103.187
OFFSET	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 80.000

CENTRELINE
X = 290470.237
Y = 6229730.032
Z = 101.864

DATUM RL 101.0



FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	101.883	101.773		101.864	101.773	101.883
EXISTING LEVELS	102.305	102.286		102.191	102.081	102.046
OFFSET	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 70.000

CENTRELINE
X = 290460.683
Y = 6229727.089
Z = 100.614

DATUM RL 99.5

FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	100.633	100.523		100.614	100.523	100.633
EXISTING LEVELS	100.832	100.830		100.804	100.769	100.762
OFFSET	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 60.000

CENTRELINE
X = 290451.372
Y = 6229723.447
Z = 99.365

DATUM RL 98.5



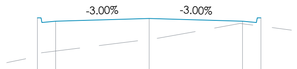
FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	99.384	99.274		99.365	99.274	99.384
EXISTING LEVELS	99.434	99.436		99.446	99.456	99.458
OFFSET	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 50.000

CENTRELINE
X = 290516.671
Y = 6229747.858
Z = 107.679

DATUM RL 105.5



FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	107.698	107.588		107.679	107.588	107.698
EXISTING LEVELS	106.540	106.615		106.999	107.506	107.428
OFFSET	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 120.000

CENTRELINE
X = 290507.980
Y = 6229742.917
Z = 106.765

DATUM RL 105.5



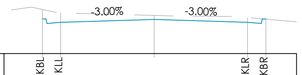
FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	106.784	106.674		106.765	106.674	106.784
EXISTING LEVELS	106.388	106.498		106.764	106.584	106.601
OFFSET	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 110.000

CENTRELINE
X = 290498.922
Y = 6229738.686
Z = 105.614

DATUM RL 104.5



FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	105.633	105.523		105.614	105.523	105.633
EXISTING LEVELS	105.940	105.829		105.746	105.675	105.624
OFFSET	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 100.000

CENTRELINE
X = 290489.555
Y = 6229735.192
Z = 104.364

DATUM RL 103.5



FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	104.383	104.273		104.364	104.273	104.383
EXISTING LEVELS	105.404	105.307		104.857	104.574	104.518
OFFSET	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 90.000

CENTRELINE
X = 290539.999
Y = 6229766.605
Z = 108.991

DATUM RL 106.5



FEATURE CODES	FBL	KBL	KLL			KLR	KBR
DESIGN LEVELS	109.023	109.010	108.900		108.991	108.900	109.010
EXISTING LEVELS	107.150	107.083	107.053		107.232	107.772	107.873
OFFSET	-5.000	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 150.000

CENTRELINE
X = 290532.732
Y = 6229759.740
Z = 108.792

DATUM RL 106.0



FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	108.811	108.701		108.792	108.701	108.811
EXISTING LEVELS	106.611	106.542		106.695	107.481	107.553
OFFSET	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 140.000

CENTRELINE
X = 290524.939
Y = 6229753.477
Z = 108.355

DATUM RL 105.5

FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	108.373	108.263		108.355	108.263	108.373
EXISTING LEVELS	106.033	106.044		106.877	107.405	107.526
OFFSET	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 130.000

CROSS SECTIONS MC01 - SHEET 1 OF 2

SCALE: 1:100



SCALE 1:100

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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PETER MORAN

STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
CROSS SECTIONS
PLAN - SHEET 1

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

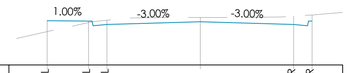
DESIGN	CC
DRAWN	AW
DATE	FEB 22
DRG SIZE	A1
SCALE	AS SHOWN
PROJECT MGR	SMCM

WWW.JN.COM.AU

18010611
C205 3

CENTRELINE
X = 290557.347
Y = 6229800.999
Z = 108.413

DATUM RL 107.0



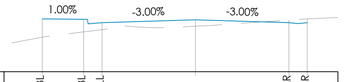
FEATURE CODES	FBL	KBL	KLL			KLR	KBR
DESIGN LEVELS	108.445	108.431	108.321		108.413	108.321	108.431
EXISTING LEVELS	108.090	108.384	108.462		108.551	108.596	108.632
OFFSET	-5.000	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 190.000

CENTRELINE
X = 290556.455
Y = 6229840.809
Z = 107.693

DATUM RL 106.0



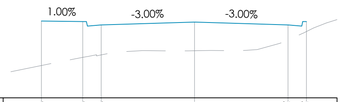
FEATURE CODES	FBL	KBL	KLL			KLR	KBR
DESIGN LEVELS	107.725	107.711	107.601		107.693	107.601	107.601
EXISTING LEVELS	107.127	107.299	107.374		107.485	107.685	107.723
OFFSET	-5.000	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 230.000

CENTRELINE
X = 290541.485
Y = 6229877.787
Z = 106.973

DATUM RL 104.5



FEATURE CODES	FBL	KBL	KLL			KLR	KBR
DESIGN LEVELS	107.005	106.991	106.881		106.973	106.881	106.991
EXISTING LEVELS	105.554	105.820	105.900		106.036	106.394	106.661
OFFSET	-5.000	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 270.000

CENTRELINE
X = 290512.669
Y = 6229918.489
Z = 106.304

DATUM RL 105.5



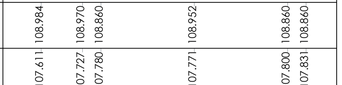
FEATURE CODES						KLR	KBR
DESIGN LEVELS	106.304					106.213	106.213
EXISTING LEVELS	106.237					106.518	106.545
OFFSET	0.000					3.050	3.352

SCALE 1:100 H
1:100 V

CH 320.000

CENTRELINE
X = 290556.511
Y = 6229791.038
Z = 108.593

DATUM RL 107.5



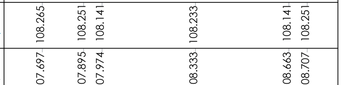
FEATURE CODES	FBL	KBL	KLL			KLR	KBR
DESIGN LEVELS	108.625	108.611	108.501		108.593	108.509	108.619
EXISTING LEVELS	108.162	108.325	108.365		108.446	108.669	108.719
OFFSET	-5.000	-3.650	-3.050		0.000	2.798	3.398

SCALE 1:100 H
1:100 V

CH 180.000

CENTRELINE
X = 290558.053
Y = 6229830.943
Z = 107.873

DATUM RL 106.0



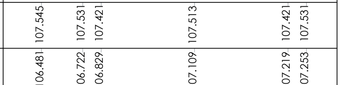
FEATURE CODES	FBL	KBL	KLL			KLR	KBR
DESIGN LEVELS	107.905	107.891	107.781		107.873	107.781	107.891
EXISTING LEVELS	107.159	107.419	107.509		107.793	108.050	108.096
OFFSET	-5.000	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 220.000

CENTRELINE
X = 290545.764
Y = 6229868.748
Z = 107.153

DATUM RL 105.0



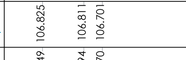
FEATURE CODES	FBL	KBL	KLL			KLR	KBR
DESIGN LEVELS	107.185	107.171	107.061		107.153	107.061	107.171
EXISTING LEVELS	105.851	105.983	106.043		106.240	106.598	106.736
OFFSET	-5.000	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 260.000

CENTRELINE
X = 290524.891
Y = 6229902.676
Z = 106.433

DATUM RL 105.0



FEATURE CODES	KBL	KLL					
DESIGN LEVELS	106.451	106.341			106.433		
EXISTING LEVELS	105.586	105.597			105.655		
OFFSET	-3.650	-3.050			0.000		

SCALE 1:100 H
1:100 V

CH 300.000

CENTRELINE
X = 290493.534
Y = 6229938.649
Z = 106.999

DATUM RL 106.0



FEATURE CODES						KLR	KBR
DESIGN LEVELS	106.999					106.908	106.908
EXISTING LEVELS	106.990					107.147	107.174
OFFSET	0.000					3.050	3.352

SCALE 1:100 H
1:100 V

CH 347.795

CENTRELINE
X = 290553.057
Y = 6229781.712
Z = 108.773

DATUM RL 107.0



FEATURE CODES	FBL	KBL	KLL			KLR	KBR
DESIGN LEVELS	108.805	108.791	108.681		108.773	108.692	108.692
EXISTING LEVELS	107.919	108.147	108.250		108.480	108.467	108.492
OFFSET	-5.000	-3.650	-3.050		0.000	2.697	3.297

SCALE 1:100 H
1:100 V

CH 170.000

CENTRELINE
X = 290558.546
Y = 6229820.960
Z = 108.053

DATUM RL 107.0

FEATURE CODES	FBL	KBL	KLL			KLR	KBR
DESIGN LEVELS	108.085	108.071	107.961		108.053	107.961	108.071
EXISTING LEVELS	107.843	108.033	108.022		108.161	108.368	108.400
OFFSET	-5.000	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 210.000

CENTRELINE
X = 290550.041
Y = 6229859.709
Z = 107.333

DATUM RL 105.5



FEATURE CODES	FBL	KBL	KLL			KLR	KBR
DESIGN LEVELS	107.365	107.351	107.241		107.333	107.241	107.351
EXISTING LEVELS	106.140	106.346	106.441		106.619	106.900	107.066
OFFSET	-5.000	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 250.000

CENTRELINE
X = 290530.886
Y = 6229894.672
Z = 106.613

DATUM RL 104.5

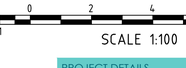
FEATURE CODES	FBL	KBL	KLL			KLR	KBR
DESIGN LEVELS	106.645	106.631	106.521		106.613	106.521	106.631
EXISTING LEVELS	105.391	105.543	105.610		105.736	105.781	105.800
OFFSET	-5.000	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 290.000

CENTRELINE
X = 290498.900
Y = 6229932.995
Z = 106.804

DATUM RL 106.0



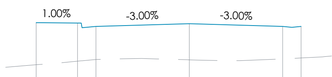
FEATURE CODES						KLR	KBR
DESIGN LEVELS	106.804					106.713	106.713
EXISTING LEVELS	107.068					107.345	107.373
OFFSET	0.000					3.050	3.352

SCALE 1:100 H
1:100 V

CH 340.000

CENTRELINE
X = 290546.775
Y = 6229773.959
Z = 108.952

DATUM RL 107.0



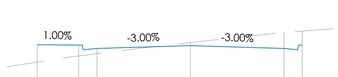
FEATURE CODES	FBL	KBL	KLL			KLR	KBR
DESIGN LEVELS	108.984	108.970	108.860		108.952	108.860	108.860
EXISTING LEVELS	107.611	107.727	107.780		107.771	107.800	107.831
OFFSET	-5.000	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 160.000

CENTRELINE
X = 290558.035
Y = 6229810.975
Z = 108.233

DATUM RL 107.0



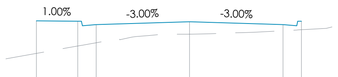
FEATURE CODES	FBL	KBL	KLL			KLR	KBR
DESIGN LEVELS	108.265	108.251	108.141		108.233	108.141	108.251
EXISTING LEVELS	107.697	107.895	107.974		108.333	108.663	108.707
OFFSET	-5.000	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 200.000

CENTRELINE
X = 290553.774
Y = 6229850.437
Z = 107.513

DATUM RL 105.5



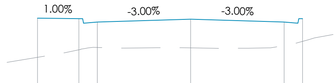
FEATURE CODES	FBL	KBL	KLL			KLR	KBR
DESIGN LEVELS	107.545	107.531	107.421		107.513	107.421	107.531
EXISTING LEVELS	106.481	106.722	106.829		107.109	107.219	107.253
OFFSET	-5.000	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 240.000

CENTRELINE
X = 290536.796
Y = 6229886.607
Z = 106.793

DATUM RL 104.5



FEATURE CODES	FBL	KBL	KLL			KLR	KBR
DESIGN LEVELS	106.825	106.811	106.701		106.793	106.701	106.811
EXISTING LEVELS	105.549	105.794	105.870		105.857	105.932	106.069
OFFSET	-5.000	-3.650	-3.050		0.000	3.050	3.650

SCALE 1:100 H
1:100 V

CH 280.000

CENTRELINE
X = 290505.785
Y = 6229925.742
Z = 106.554

DATUM RL 105.5



FEATURE CODES						KLR	KBR
DESIGN LEVELS	106.554					106.463	106.463
EXISTING LEVELS	106.932					107.337	107.377
OFFSET	0.000					3.050	3.352

SCALE 1:100 H
1:100 V

CH 330.000

CROSS SECTIONS MC01 - SHEET 2 OF 2

SCALE: 1:100

0 2 4 6 8 10m
2 1
SCALE 1:100

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DA ISSUE

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DRAWING TITLE
CROSS SECTIONS
PLAN - SHEET 2

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS
DESIGN CC
DRAWN AW
DATE FEB 22
DRG SIZE A1
SCALE AS SHOWN
PROJECT SMcM
MGR

WWW.JN.COM.AU

18010611
C206 3

CENTRELINE
X = 290487.678
Y = 6229906.163
Z = 105.702

DATUM RL 104.5



FEATURE CODES	KBL	KLL	CL
DESIGN LEVELS	105.743	105.633	105.702
EXISTING LEVELS	105.284	105.317	105.383
OFFSET	-2.900	-2.300	0.000

SCALE 1:100 H
1:100 V

CH 30.000

CENTRELINE
X = 290448.835
Y = 6229903.568
Z = 104.614

DATUM RL 103.5



FEATURE CODES	KBL	KLL	LEL	CL	KLR	KBR
DESIGN LEVELS	104.573	104.463	104.545	104.614	104.545	104.655
EXISTING LEVELS	104.523	104.522	104.519	104.526	104.548	104.599
OFFSET	-5.650	-5.050	-2.300	0.000	2.300	2.900

SCALE 1:100 H
1:100 V

CH 70.000

CENTRELINE
X = 290420.852
Y = 6229928.865
Z = 103.043

DATUM RL 102.0



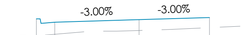
FEATURE CODES	KBL	KLL
DESIGN LEVELS	103.121	103.011
EXISTING LEVELS	103.090	103.081
OFFSET	-1.650	-1.050

SCALE 1:100 H
1:100 V

CH 30.000

CENTRELINE
X = 290497.372
Y = 6229908.621
Z = 105.852

DATUM RL 104.5



FEATURE CODES	KBL	KLL	LEL	CL
DESIGN LEVELS	105.811	105.701	105.783	105.852
EXISTING LEVELS	105.255	105.305	105.431	105.523
OFFSET	-5.650	-5.050	-2.300	0.000

SCALE 1:100 H
1:100 V

CH 20.000

CENTRELINE
X = 290458.363
Y = 6229900.672
Z = 104.989

DATUM RL 104.0



FEATURE CODES	KBL	KLL	LEL	CL	KLR	KBR
DESIGN LEVELS	104.948	104.838	104.920	104.989	104.920	105.030
EXISTING LEVELS	104.748	104.769	104.863	104.910	104.835	104.858
OFFSET	-5.650	-5.050	-2.300	0.000	2.300	2.900

SCALE 1:100 H
1:100 V

CH 60.000

CENTRELINE
X = 290418.822
Y = 6229919.215
Z = 103.317

DATUM RL 102.0



FEATURE CODES	KBL	KLL	KLR	KBR
DESIGN LEVELS	103.396	103.286	103.317	103.286	103.396
EXISTING LEVELS	103.241	103.220	103.179	103.138	103.133
OFFSET	-1.650	-1.050	0.000	1.050	1.650

SCALE 1:100 H
1:100 V

CH 20.000

CENTRELINE
X = 290507.065
Y = 6229911.078
Z = 106.002

DATUM RL 104.5



FEATURE CODES	KBL	KLL	LEL	CL
DESIGN LEVELS	105.961	105.851	105.933	106.002
EXISTING LEVELS	105.488	105.488	105.558	105.632
OFFSET	-5.650	-5.050	-2.300	0.000

SCALE 1:100 H
1:100 V

CH 10.000

CENTRELINE
X = 290468.291
Y = 6229901.249
Z = 105.352

DATUM RL 104.0



FEATURE CODES	KBL	KLL	CL	KLR	KBR
DESIGN LEVELS	105.393	105.283	105.352	105.283	105.393
EXISTING LEVELS	105.014	105.076	105.064	105.298	105.413
OFFSET	-2.900	-2.300	0.000	2.300	2.900

SCALE 1:100 H
1:100 V

CH 50.000

CENTRELINE
X = 290424.459
Y = 6229911.012
Z = 103.640

DATUM RL 102.5



FEATURE CODES	KBL	KLL	KLR	KBR
DESIGN LEVELS	103.719	103.609	103.640	103.609	103.719
EXISTING LEVELS	103.480	103.518	103.541	103.565	103.579
OFFSET	-1.650	-1.050	0.000	1.050	1.650

SCALE 1:100 H
1:100 V

CH 10.000

CENTRELINE
X = 290428.578
Y = 6229942.544
Z = 102.761

DATUM RL 102.0



FEATURE CODES	KBL	KLL
DESIGN LEVELS	102.840	102.730	102.761
EXISTING LEVELS	102.680	102.708	102.761
OFFSET	-1.650	-1.050	0.000

SCALE 1:100 H
1:100 V

CH 46.162

CENTRELINE
X = 290516.758
Y = 6229913.536
Z = 106.195

DATUM RL 105.5

FEATURE CODES	CL
DESIGN LEVELS	106.195
EXISTING LEVELS	106.008
OFFSET	0.000

SCALE 1:100 H
1:100 V

CH 0.000

CENTRELINE
X = 290477.985
Y = 6229903.705
Z = 105.552

DATUM RL 104.5



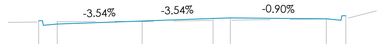
FEATURE CODES	KBL	KLL	CL
DESIGN LEVELS	105.593	105.483	105.552
EXISTING LEVELS	105.184	105.199	105.205
OFFSET	-2.900	-2.300	0.000

SCALE 1:100 H
1:100 V

CH 40.000

CENTRELINE
X = 290439.621
Y = 6229907.454
Z = 104.239

DATUM RL 103.0



FEATURE CODES	KBL	KLL	LEL	CL	KLR	KBR
DESIGN LEVELS	104.148	104.042	104.140	104.222	104.239	104.211	104.311
EXISTING LEVELS	104.107	104.113	104.125	104.161	104.168	104.208	104.216
OFFSET	-6.254	-5.650	-2.878	-0.540	0.000	3.136	3.773

SCALE 1:100 H
1:100 V

CH 80.000

CENTRELINE
X = 290433.255
Y = 6229910.140
Z = 103.980

DATUM RL 103.0



FEATURE CODES	KLR	KBR
DESIGN LEVELS	103.980	103.949	104.058
EXISTING LEVELS	103.905	103.877	103.862
OFFSET	0.000	1.050	1.650

SCALE 1:100 H
1:100 V

CH 0.000

CENTRELINE
X = 290424.136
Y = 6229938.279
Z = 102.840

DATUM RL 101.5



FEATURE CODES	KBL	KLL
DESIGN LEVELS	102.919	102.809	102.840
EXISTING LEVELS	102.708	102.742	102.801
OFFSET	-1.650	-1.050	0.000

SCALE 1:100 H
1:100 V

CH 40.000

CROSS SECTIONS MC02

SCALE: 1:100

CROSS SECTIONS MC02A

SCALE: 1:100



SCALE 1:100

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DRAWING TITLE
CROSS SECTIONS
PLAN - SHEET 3

PROJECT
STUDLEY PARK

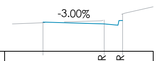
ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS
DESIGN CC
DRAWN AW
DATE FEB 22
DRG SIZE A1
SCALE AS SHOWN
PROJECT MGR SMCM
WWW.JN.COM.AU

18010611
C207 3

CENTRELINE
X = 290427.871
Y = 6229938.202
Z = 102.952

DATUM RL 102.0



FEATURE CODES			KLR	KBR
DESIGN LEVELS	102.952		102.892	103.002
EXISTING LEVELS	102.930		103.024	103.219
OFFSET	0.000		2.001	2.601

SCALE 1:100 H
1:100 V

CH 30.000

CENTRELINE
X = 290546.286
Y = 6229918.678
Z = 106.405

DATUM RL 105.5



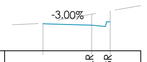
FEATURE CODES	KBL	KLL		
DESIGN LEVELS	106.474	106.474		106.405
EXISTING LEVELS	107.302	107.297		107.278
OFFSET	-3.052	-2.750		0.000

SCALE 1:100 H
1:100 V

CH 30.000

CENTRELINE
X = 290429.514
Y = 6229928.352
Z = 103.382

DATUM RL 102.5



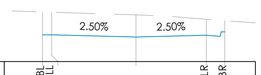
FEATURE CODES			KLR	KBR
DESIGN LEVELS	103.382		103.334	103.444
EXISTING LEVELS	103.418		103.696	103.800
OFFSET	0.000		1.594	2.194

SCALE 1:100 H
1:100 V

CH 20.000

CENTRELINE
X = 290537.108
Y = 6229915.156
Z = 106.304

DATUM RL 105.5



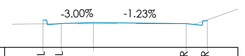
FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	106.373	106.373		106.304	106.362	106.472
EXISTING LEVELS	107.122	107.112		107.024	106.880	106.837
OFFSET	-3.052	-2.750		0.000	2.300	2.900

SCALE 1:100 H
1:100 V

CH 20.000

CENTRELINE
X = 290433.328
Y = 6229919.170
Z = 103.811

DATUM RL 103.0



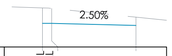
FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	103.890	103.780	103.811		103.774	103.866
EXISTING LEVELS	103.768	103.769	103.769		103.771	103.895
OFFSET	-1.650	-1.050	0.000		3.026	3.714

SCALE 1:100 H
1:100 V

CH 10.000

CENTRELINE
X = 290527.171
Y = 6229914.027
Z = 106.204

DATUM RL 105.5



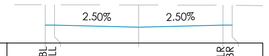
FEATURE CODES	KBL	KLL	
DESIGN LEVELS	106.273	106.273	106.204
EXISTING LEVELS	106.776	106.758	106.475
OFFSET	-3.052	-2.750	0.000

SCALE 1:100 H
1:100 V

CH 10.000

CENTRELINE
X = 290551.473
Y = 6229932.934
Z = 107.013

DATUM RL 106.5



FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	107.081	107.081		107.013	107.081	107.081
EXISTING LEVELS	107.745	107.744		107.738	107.733	107.732
OFFSET	-3.052	-2.750		0.000	2.750	3.052

SCALE 1:100 H
1:100 V

CH 45.887

CENTRELINE
X = 290433.255
Y = 6229910.140
Z = 103.980

DATUM RL 103.0



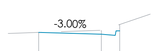
FEATURE CODES	KBL	KLL	
DESIGN LEVELS	104.058	103.948	103.980
EXISTING LEVELS	103.862	103.877	103.905
OFFSET	-1.650	-1.050	0.000

SCALE 1:100 H
1:100 V

CH 0.000

CENTRELINE
X = 290428.519
Y = 6229942.250
Z = 102.776

DATUM RL 102.0



FEATURE CODES			KLR	KBR
DESIGN LEVELS	102.776		102.715	102.825
EXISTING LEVELS	102.773		102.842	103.034
OFFSET	0.000		2.047	2.647

SCALE 1:100 H
1:100 V

CH 34.106

CENTRELINE
X = 290521.993
Y = 6229913.439
Z = 106.152

DATUM RL 105.5



FEATURE CODES	KBL	KLL	
DESIGN LEVELS	106.221	106.221	106.152
EXISTING LEVELS	106.468	106.437	106.153
OFFSET	-3.052	-2.750	0.000

SCALE 1:100 H
1:100 V

CH 4.789

CENTRELINE
X = 290551.359
Y = 6229927.081
Z = 106.708

DATUM RL 106.0



FEATURE CODES	KBL	KLL			KLR	KBR
DESIGN LEVELS	106.776	106.776		106.708	106.776	106.776
EXISTING LEVELS	107.556	107.552		107.516	107.569	107.575
OFFSET	-3.052	-2.750		0.000	2.750	3.052

SCALE 1:100 H
1:100 V

CH 40.000

CROSS SECTIONS MC02B

SCALE: 1:100

CROSS SECTIONS MC03

SCALE: 1:100

SCALE 1:100

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

JN Responsive Engineering

CLIENT
PETER MORAN

STATUS
DA ISSUE

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DRAWING TITLE
CROSS SECTIONS
PLAN - SHEET 4

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

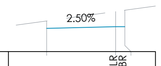
PROJECT DETAILS

DESIGN	CC
DRAWN	AW
DATE	FEB 22
DRG SIZE	A1
SCALE	AS SHOWN
PROJECT MGR	SMGM
WWW.JN.COM.AU	

18010611
C208 3

CENTRELINE
X = 290538.731
Y = 6229991.302
Z = 106.257

DATUM RL 105.5



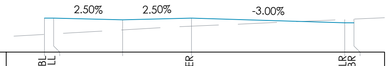
FEATURE CODES		KLR KBR	
DESIGN LEVELS	106.257	106.314	106.314
EXISTING LEVELS	106.501	106.808	106.849
OFFSET	0.000	2.250	2.552

SCALE 1:100 H
1:100 V

CH 30.000

CENTRELINE
X = 290570.964
Y = 6229975.755
Z = 107.552

DATUM RL 106.5



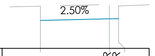
FEATURE CODES	KBL KLL		LER	KLR KBR
DESIGN LEVELS	107.608	107.608	107.552	107.608	107.458	107.458
EXISTING LEVELS	107.078	107.095	107.224	107.345	107.564	107.577	107.458
OFFSET	-2.552	-2.250	0.000	2.250	7.250	7.552

SCALE 1:100 H
1:100 V

CH 70.000

CENTRELINE
X = 290553.972
Y = 6229944.260
Z = 107.408

DATUM RL 106.5



FEATURE CODES		KLR KBR	
DESIGN LEVELS	107.408	107.464	107.464
EXISTING LEVELS	107.874	107.901	107.885
OFFSET	0.000	2.250	2.552

SCALE 1:100 H
1:100 V

CH 110.000

CENTRELINE
X = 290523.280
Y = 6229962.664
Z = 107.165

DATUM RL 106.5



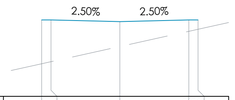
FEATURE CODES	KBL KLL			KLR KBR
DESIGN LEVELS	107.221	107.221	107.165	107.221	107.221
EXISTING LEVELS	107.647	107.643	107.630	107.716	107.727
OFFSET	-2.552	-2.250	0.000	2.250	2.552

SCALE 1:100 H
1:100 V

CH 150.000

CENTRELINE
X = 290530.320
Y = 6229986.021
Z = 106.439

DATUM RL 104.0



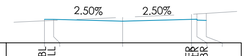
FEATURE CODES	KBL KLL			KLR KBR
DESIGN LEVELS	106.495	106.495	106.439	106.495	106.495
EXISTING LEVELS	105.064	105.131	105.626	106.121	106.188
OFFSET	-2.552	-2.250	0.000	2.250	2.552

SCALE 1:100 H
1:100 V

CH 20.000

CENTRELINE
X = 290566.070
Y = 6229984.397
Z = 107.208

DATUM RL 106.5



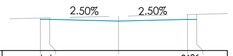
FEATURE CODES	KBL KLL			LER KBR
DESIGN LEVELS	107.264	107.264	107.208	107.264	107.269	107.231
EXISTING LEVELS	107.219	107.232	107.332	107.431	107.442	107.462
OFFSET	-2.552	-2.250	0.000	2.250	2.427	2.731

SCALE 1:100 H
1:100 V

CH 60.000

CENTRELINE
X = 290562.827
Y = 6229948.758
Z = 107.458

DATUM RL 106.5



FEATURE CODES	KBL KLL			KLR KBR
DESIGN LEVELS	107.514	107.514	107.458	107.514	107.514
EXISTING LEVELS	107.558	107.565	107.619	107.673	107.680
OFFSET	-2.552	-2.250	0.000	2.250	2.552

SCALE 1:100 H
1:100 V

CH 100.000

CENTRELINE
X = 290527.371
Y = 6229953.614
Z = 107.258

DATUM RL 106.5



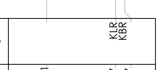
FEATURE CODES	KBL KLL			KLR KBR
DESIGN LEVELS	107.314	107.314	107.258	107.314	107.314
EXISTING LEVELS	107.997	107.996	107.989	107.982	107.981
OFFSET	-2.552	-2.250	0.000	2.250	2.552

SCALE 1:100 H
1:100 V

CH 140.000

CENTRELINE
X = 290524.662
Y = 6229977.857
Z = 106.731

DATUM RL 106.0



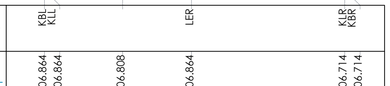
FEATURE CODES		KLR KBR	
DESIGN LEVELS	106.731	106.787	106.787
EXISTING LEVELS	107.176	107.316	107.335
OFFSET	0.000	2.250	2.552

SCALE 1:100 H
1:100 V

CH 10.000

CENTRELINE
X = 290558.172
Y = 6229990.420
Z = 106.808

DATUM RL 106.0



FEATURE CODES	KBL KLL		LER	KLR KBR
DESIGN LEVELS	106.864	106.864	106.808	106.864	106.714	106.714
EXISTING LEVELS	107.335	107.347	107.443	107.572	107.859	107.877
OFFSET	-2.552	-2.250	0.000	2.250	7.250	7.552

SCALE 1:100 H
1:100 V

CH 50.000

CENTRELINE
X = 290569.201
Y = 6229956.375
Z = 107.508

DATUM RL 106.5



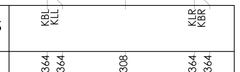
FEATURE CODES	KBL KLL			KLR KBR
DESIGN LEVELS	107.564	107.564	107.508	107.564	107.564
EXISTING LEVELS	107.264	107.280	107.395	107.499	107.509
OFFSET	-2.552	-2.250	0.000	2.250	2.552

SCALE 1:100 H
1:100 V

CH 90.000

CENTRELINE
X = 290534.691
Y = 6229946.901
Z = 107.308

DATUM RL 106.5



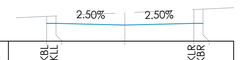
FEATURE CODES	KBL KLL			KLR KBR
DESIGN LEVELS	107.364	107.364	107.308	107.364	107.364
EXISTING LEVELS	107.947	107.947	107.949	107.951	107.951
OFFSET	-2.552	-2.250	0.000	2.250	2.552

SCALE 1:100 H
1:100 V

CH 130.000

CENTRELINE
X = 290522.669
Y = 6229968.127
Z = 107.023

DATUM RL 106.5



FEATURE CODES	KBL KLL			KLR KBR
DESIGN LEVELS	107.079	107.079	107.023	107.079	107.079
EXISTING LEVELS	107.307	107.321	107.425	107.529	107.543
OFFSET	-2.552	-2.250	0.000	2.250	2.552

SCALE 1:100 H
1:100 V

CH 0.000

CENTRELINE
X = 290548.542
Y = 6229992.852
Z = 106.415

DATUM RL 105.5



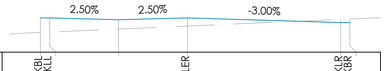
FEATURE CODES		KLR KBR	
DESIGN LEVELS	106.415	106.471	106.471
EXISTING LEVELS	107.407	107.491	107.502
OFFSET	0.000	2.250	2.552

SCALE 1:100 H
1:100 V

CH 40.000

CENTRELINE
X = 290572.067
Y = 6229965.884
Z = 107.558

DATUM RL 106.5



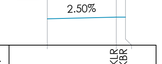
FEATURE CODES	KBL KLL		LER	KLR KBR
DESIGN LEVELS	107.614	107.614	107.558	107.614	107.464	107.464
EXISTING LEVELS	107.141	107.154	107.252	107.350	107.567	107.580
OFFSET	-2.552	-2.250	0.000	2.250	7.250	7.552

SCALE 1:100 H
1:100 V

CH 80.000

CENTRELINE
X = 290544.061
Y = 6229943.606
Z = 107.358

DATUM RL 106.5



FEATURE CODES		KLR KBR	
DESIGN LEVELS	107.358	107.414	107.414
EXISTING LEVELS	108.048	108.067	108.069
OFFSET	0.000	2.250	2.552

SCALE 1:100 H
1:100 V

CH 120.000

CROSS SECTIONS MC04 - SHEET 1 OF 2

SCALE: 1:100

0 2 4 6 8 10m
2 1
SCALE 1:100

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

JN
Responsive Engineering

CLIENT
PETER MORAN

STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
CROSS SECTIONS
PLAN - SHEET 5

PROJECT
STUDLEY PARK

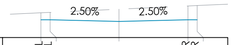
ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS
DESIGN CC
DRAWN AW
DATE FEB 22
DRG SIZE A1
SCALE AS SHOWN
PROJECT MGR SMcM
WWW.JN.COM.AU

18010611
C209 3

CENTRELINE
X = 290522.669
Y = 6229968.127
Z = 107.023

DATUM RL 106.5



FEATURE CODES	KBL KLL				KLR KBR	
DESIGN LEVELS	107.079	107.079		107.023	107.079	107.079
EXISTING LEVELS	107.307	107.321		107.425	107.529	107.543
OFFSET	-2.552	-2.250		0.000	2.250	2.552

SCALE 1:100 H
1:100 V

CH 155.509

CROSS SECTIONS MC04 - SHEET 2 OF 2

SCALE: 1:100

0 2 4 6 8 10m
2 1
SCALE 1:100

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

JN
Responsive Engineering

CLIENT
PETER MORAN

STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
CROSS SECTIONS
PLAN - SHEET 6

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS
DESIGN CC
DRAWN AW
DATE FEB '22
DRG SIZE A1
SCALE AS SHOWN
PROJECT MGR SMcM
WWW.JN.COM.AU

18010611
C210 3

CENTRELINE
X = 290543.359
Y = 6230031.802
Z = 104.729

DATUM RL 104.0



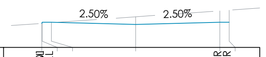
FEATURE CODES	RWEBU	KLL				KLR	KBR
DESIGN LEVELS	104.688	104.797	104.797		104.729	104.797	104.797
EXISTING LEVELS	104.688	104.688	104.689		104.703	104.718	104.719
OFFSET	-3.062	-3.052	-2.750		0.000	2.750	3.052

SCALE 1:100 H
1:100 V

CH 40.000

CENTRELINE
X = 290545.514
Y = 6230022.308
Z = 105.250

DATUM RL 104.5



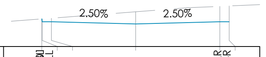
FEATURE CODES	RWEBU	KLL				KLR	KBR
DESIGN LEVELS	105.282	105.318	105.318		105.250	105.318	105.318
EXISTING LEVELS	105.282	105.283	105.304		105.498	105.692	105.713
OFFSET	-3.062	-3.052	-2.750		0.000	2.750	3.052

SCALE 1:100 H
1:100 V

CH 30.000

CENTRELINE
X = 290543.499
Y = 6230012.513
Z = 105.740

DATUM RL 105.0



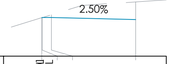
FEATURE CODES	RWEBU	KLL				KLR	KBR
DESIGN LEVELS	105.903	105.808	105.808		105.740	105.808	105.808
EXISTING LEVELS	105.903	105.904	105.927		106.137	106.313	106.326
OFFSET	-3.062	-3.052	-2.750		0.000	2.750	3.052

SCALE 1:100 H
1:100 V

CH 20.000

CENTRELINE
X = 290543.022
Y = 6230003.252
Z = 106.195

DATUM RL 105.0



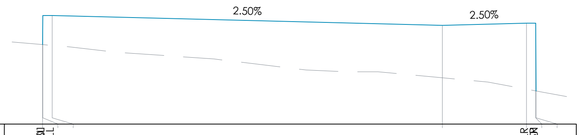
FEATURE CODES	RWEBU	KLL					
DESIGN LEVELS	106.257	106.264	106.264			106.195	
EXISTING LEVELS	106.257	106.260	106.352			106.772	
OFFSET	-3.062	-3.052	-2.750			0.000	

SCALE 1:100 H
1:100 V

CH 10.712

CENTRELINE
X = 290515.733
Y = 6230032.837
Z = 102.221

DATUM RL 99.0



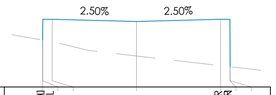
FEATURE CODES	RWEBU	KLL					KLR	RWEBR
DESIGN LEVELS	101.592	101.592	102.540	102.539		102.221	102.290	102.290
EXISTING LEVELS	101.592	101.591	101.565			100.508	100.137	100.081
OFFSET	-13.049	-13.039	-12.737			0.000	2.750	3.052

SCALE 1:100 H
1:100 V

CH 70.000

CENTRELINE
X = 290525.442
Y = 6230034.774
Z = 102.638

DATUM RL 100.5



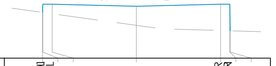
FEATURE CODES	RWEBU	KLL				KLR	RWEBR
DESIGN LEVELS	102.031	102.707	102.707		102.638	102.707	102.707
EXISTING LEVELS	102.031	102.030	101.977		101.510	101.193	101.159
OFFSET	-3.064	-3.054	-2.752		0.000	2.750	3.052

SCALE 1:100 H
1:100 V

CH 60.000

CENTRELINE
X = 290535.047
Y = 6230036.870
Z = 103.692

DATUM RL 102.0



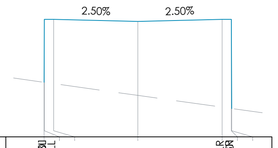
FEATURE CODES	RWEBU	KLL				KLR	RWEBR
DESIGN LEVELS	103.494	103.761	103.761		103.692	103.761	103.761
EXISTING LEVELS	103.494	103.493	103.451		103.072	102.903	102.894
OFFSET	-3.062	-3.052	-2.750		0.000	2.750	3.052

SCALE 1:100 H
1:100 V

CH 50.000

CENTRELINE
X = 290488.107
Y = 6230032.490
Z = 99.267

DATUM RL 95.5



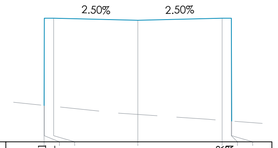
FEATURE CODES	RWEBU	KLL				KLR	RWEBR
DESIGN LEVELS	97.282	99.336	99.336		99.267	99.336	99.336
EXISTING LEVELS	97.282	97.281	97.239		96.854	96.469	96.427
OFFSET	-3.062	-3.052	-2.750		0.000	2.750	3.052

SCALE 1:100 H
1:100 V

CH 100.000

CENTRELINE
X = 290496.585
Y = 6230037.397
Z = 100.467

DATUM RL 96.5



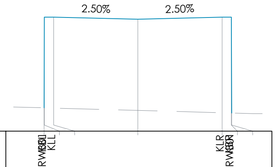
FEATURE CODES	RWEBU	KLL				KLR	RWEBR
DESIGN LEVELS	97.689	100.536	100.536		100.467	100.536	100.536
EXISTING LEVELS	97.689	97.688	97.656		97.394	97.202	97.179
OFFSET	-3.062	-3.052	-2.750		0.000	2.750	3.052

SCALE 1:100 H
1:100 V

CH 90.000

CENTRELINE
X = 290506.243
Y = 6230035.700
Z = 101.653

DATUM RL 98.0



FEATURE CODES	RWEBU	KLL				KLR	RWEBR
DESIGN LEVELS	98.762	101.722	101.722		101.653	101.722	101.722
EXISTING LEVELS	98.762	98.762	98.754		98.678	98.602	98.594
OFFSET	-3.062	-3.052	-2.750		0.000	2.750	3.052

SCALE 1:100 H
1:100 V

CH 80.000

CENTRELINE
X = 290484.695
Y = 6230015.257
Z = 97.400

DATUM RL 96.5



FEATURE CODES	RWEBU	KLL				KLR	KBR
DESIGN LEVELS	98.676	97.469	97.469		97.400	97.469	97.469
EXISTING LEVELS	98.676	98.675	98.651		98.433	98.214	98.190
OFFSET	-3.062	-3.052	-2.750		0.000	2.750	3.052

SCALE 1:100 H
1:100 V

CH 118.013

CENTRELINE
X = 290484.796
Y = 6230023.269
Z = 98.067

DATUM RL 96.5



FEATURE CODES	RWEBU	KLL				KLR	RWEBR
DESIGN LEVELS	97.817	98.136	98.136		98.067	98.136	98.136
EXISTING LEVELS	97.817	97.816	97.790		97.564	97.346	97.322
OFFSET	-3.062	-3.052	-2.750		0.000	2.750	3.052

SCALE 1:100 H
1:100 V

CH 110.000

CROSS SECTIONS MC05

SCALE: 1:100

0 2 4 6 8 10m
2 1
SCALE 1:100

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AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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CLIENT
PETER MORAN

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DA ISSUE

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DRAWING TITLE
CROSS SECTIONS
PLAN - SHEET 7

PROJECT
STUDLEY PARK

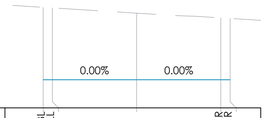
ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS
DESIGN CC
DRAWN AW
DATE FEB 22
DRG SIZE A1
SCALE AS SHOWN
PROJECT MGR SMcM
WWW.JN.COM.AU

18010611
C211 3

CENTRELINE
X = 290506.097
Y = 6229974.724
Z = 103.920

DATUM RL 103.0



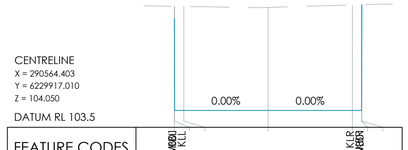
FEATURE CODES	KBL KLL			KLR KBR
DESIGN LEVELS	103.920 103.920	103.920		103.920 103.920
EXISTING LEVELS	106.284 106.265	106.093		105.940 105.922
OFFSET	-3.052 -2.750	0.000		2.750 3.052

SCALE 1:100 H
1:100 V

CH 24.936

CENTRELINE
X = 290564.403
Y = 6229917.010
Z = 104.050

DATUM RL 103.5



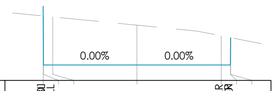
FEATURE CODES	RWKBU KLL			KLR RWKBU KBR
DESIGN LEVELS	107.050 104.050 104.050	104.050		104.050 104.050 107.503
EXISTING LEVELS	107.450 107.449 107.444	107.414		107.494 107.503 107.503
OFFSET	-3.062 -3.052 -2.750	0.000		2.750 3.052 3.062

SCALE 1:100 H
1:100 V

CH 22.094

CENTRELINE
X = 290507.602
Y = 6229979.344
Z = 104.506

DATUM RL 104.0



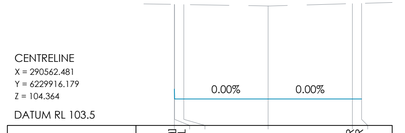
FEATURE CODES	RWKBU KLL			KLR RWKBU KBR
DESIGN LEVELS	106.423 104.506 104.506	104.506		104.506 104.506 105.395
EXISTING LEVELS	106.105 106.104 106.074	105.804		105.456 105.397 105.395
OFFSET	-3.062 -3.052 -2.750	0.000		2.750 3.052 3.062

SCALE 1:100 H
1:100 V

CH 20.000

CENTRELINE
X = 290562.481
Y = 6229916.179
Z = 104.364

DATUM RL 103.5



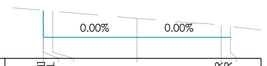
FEATURE CODES	RWKBU KLL			KLR KBR
DESIGN LEVELS	104.683 104.364 104.364	104.364		104.364 104.364
EXISTING LEVELS	107.450 107.450 107.445	107.399		107.475 107.484
OFFSET	-3.062 -3.052 -2.750	0.000		2.750 3.052

SCALE 1:100 H
1:100 V

CH 20.000

CENTRELINE
X = 290516.502
Y = 6229982.446
Z = 105.688

DATUM RL 105.0



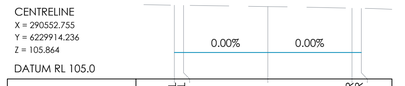
FEATURE CODES	RWKBU KLL			KLR KBR
DESIGN LEVELS	106.541 105.688 105.688	105.688		105.688 105.688
EXISTING LEVELS	106.567 106.566 106.541	106.306		106.080 106.045
OFFSET	-3.062 -3.052 -2.750	0.000		2.750 3.052

SCALE 1:100 H
1:100 V

CH 10.000

CENTRELINE
X = 290552.755
Y = 6229914.236
Z = 105.864

DATUM RL 105.0



FEATURE CODES	KBL KLL			KLR KBR
DESIGN LEVELS	105.864 105.864	105.864		105.864 105.864
EXISTING LEVELS	107.408 107.403	107.362		107.310 107.303
OFFSET	-3.052 -2.750	0.000		2.750 3.052

SCALE 1:100 H
1:100 V

CH 10.000

CENTRELINE
X = 290523.107
Y = 6229981.645
Z = 106.475

DATUM RL 105.5



FEATURE CODES			KLR KBR
DESIGN LEVELS	106.475		106.475 106.475
EXISTING LEVELS	106.849	106.615	106.589
OFFSET	0.000	2.750	3.052

SCALE 1:100 H
1:100 V

CH 3.347

CENTRELINE
X = 290545.581
Y = 6229915.601
Z = 106.319

DATUM RL 105.5



FEATURE CODES			KLR KBR
DESIGN LEVELS	106.319		106.319 106.319
EXISTING LEVELS	107.193	107.112	107.103
OFFSET	0.000	2.750	3.052

SCALE 1:100 H
1:100 V

CH 2.664

CROSS SECTIONS MC06

SCALE: 1:100

CROSS SECTIONS MC07

SCALE: 1:100



SCALE 1:100

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AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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STATUS
DA ISSUE

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CIVIL DESIGN

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CROSS SECTIONS
PLAN - SHEET 8

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	AW
DATE	FEB 22
DRG SIZE	A1
SCALE	AS SHOWN
PROJECT MGR	SMcM

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18010611
C212 3

CENTRELINE
X = 290558.559
Y = 6229745.130
Z = 108.480

DATUM RL 107.5



	FP	CL	FP
FEATURE CODES			
DESIGN LEVELS	108.488	108.480	108.473
EXISTING LEVELS	108.537	108.480	108.439
OFFSET	-0.750	0.000	0.750

SCALE 1:100 H
1:100 V

CH 28.329

CENTRELINE
X = 290552.446
Y = 6229750.787
Z = 108.578

DATUM RL 107.5

	FP	CL	FP
FEATURE CODES			
DESIGN LEVELS	108.586	108.578	108.571
EXISTING LEVELS	108.734	108.657	108.580
OFFSET	-0.750	0.000	0.750

SCALE 1:100 H
1:100 V

CH 20.000

CENTRELINE
X = 290545.107
Y = 6229757.579
Z = 108.695

DATUM RL 107.0



	FP	CL	FP
FEATURE CODES			
DESIGN LEVELS	108.703	108.695	108.688
EXISTING LEVELS	107.950	107.954	107.957
OFFSET	-0.750	0.000	0.750

SCALE 1:100 H
1:100 V

CH 10.000

CENTRELINE
X = 290537.768
Y = 6229764.372
Z = 108.873

DATUM RL 106.5



	FP	CL	FP
FEATURE CODES			
DESIGN LEVELS	108.881	108.873	108.866
EXISTING LEVELS	107.112	107.112	107.082
OFFSET	-0.750	0.000	0.750

SCALE 1:100 H
1:100 V

CH 0.000

CROSS SECTIONS MC08 (FOOTPATH)

SCALE: 1:100



SCALE 1:100

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AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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CIVIL DESIGN

DRAWING TITLE
CROSS SECTIONS
PLAN - SHEET 9

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	AW
DATE	FEB 22
DRG SIZE	A1
SCALE	AS SHOWN
PROJECT MGR	SMcM

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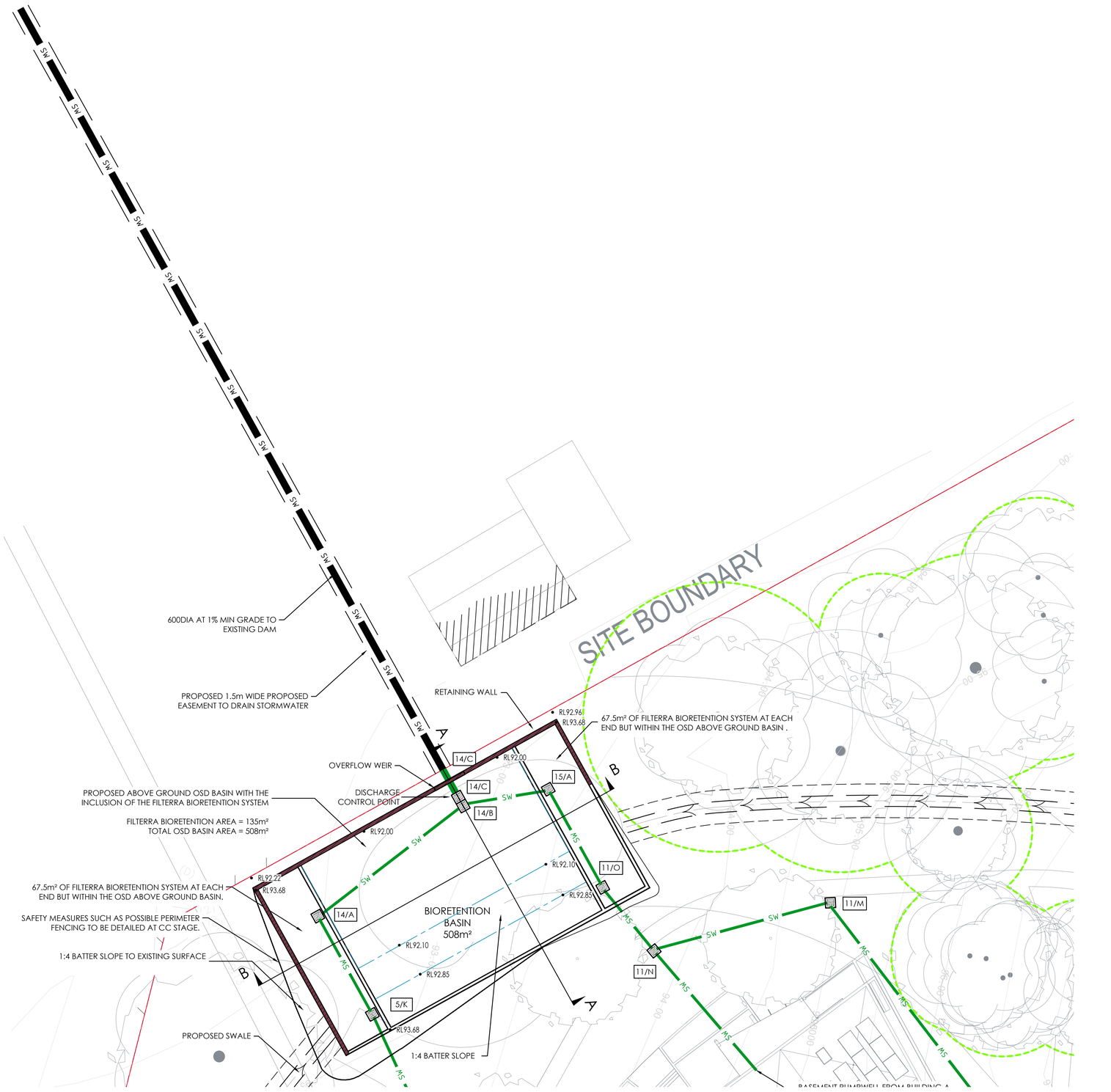
18010611
C213 3

)URSE

5

DP 859872



STORMWATER PLAN - SHEET 1

SCALE 1:200

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4 3 2 1

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
4	23.10.24	RE-ISSUE FOR DA	JP
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
STORMWATER PLAN
SHEET 1

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMCM

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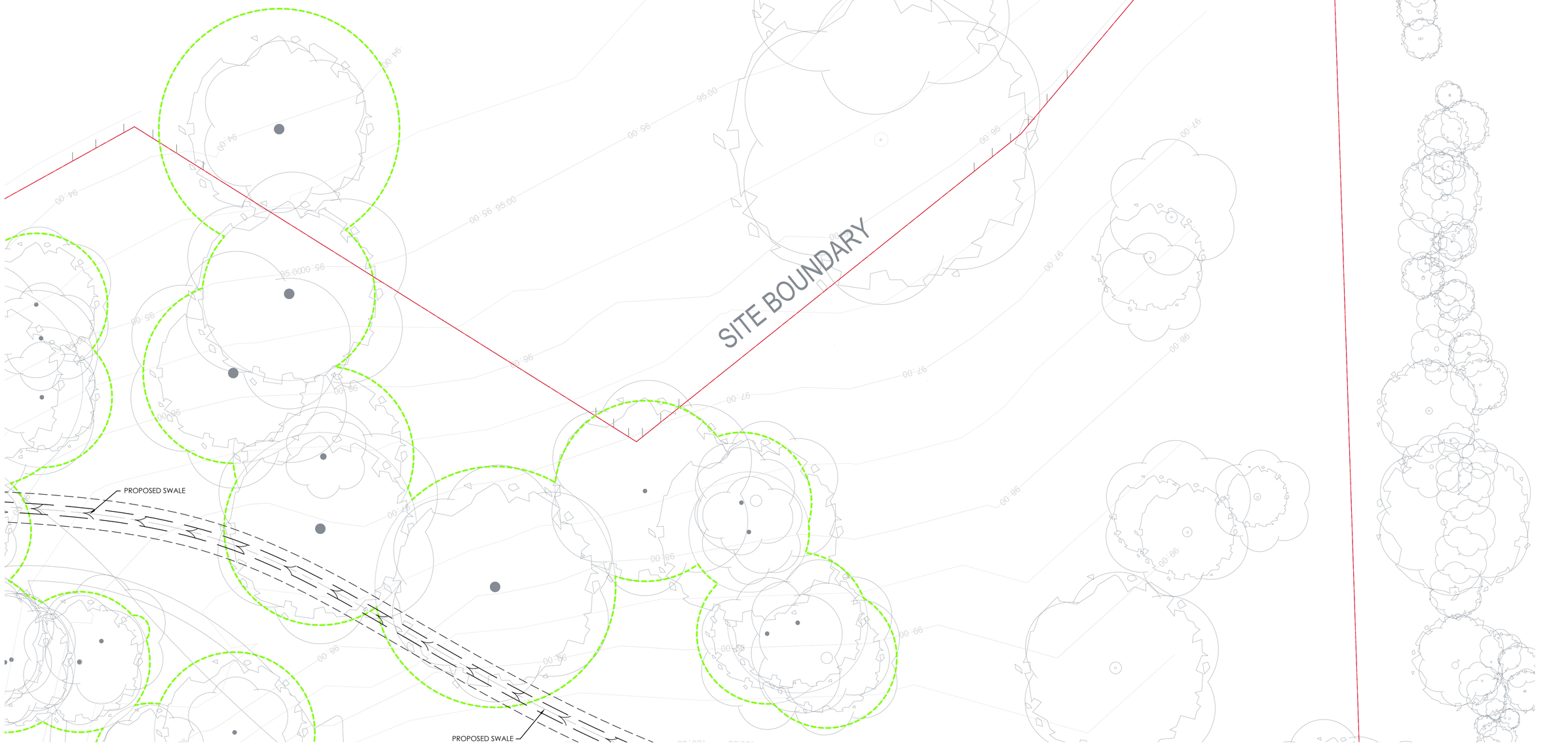
18010611

C300 4

5

DP 859872



STORMWATER PLAN - SHEET 2

SCALE 1:200

0 4 8 12 16 20m

4 3 2 1

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
STORMWATER PLAN
SHEET 2

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

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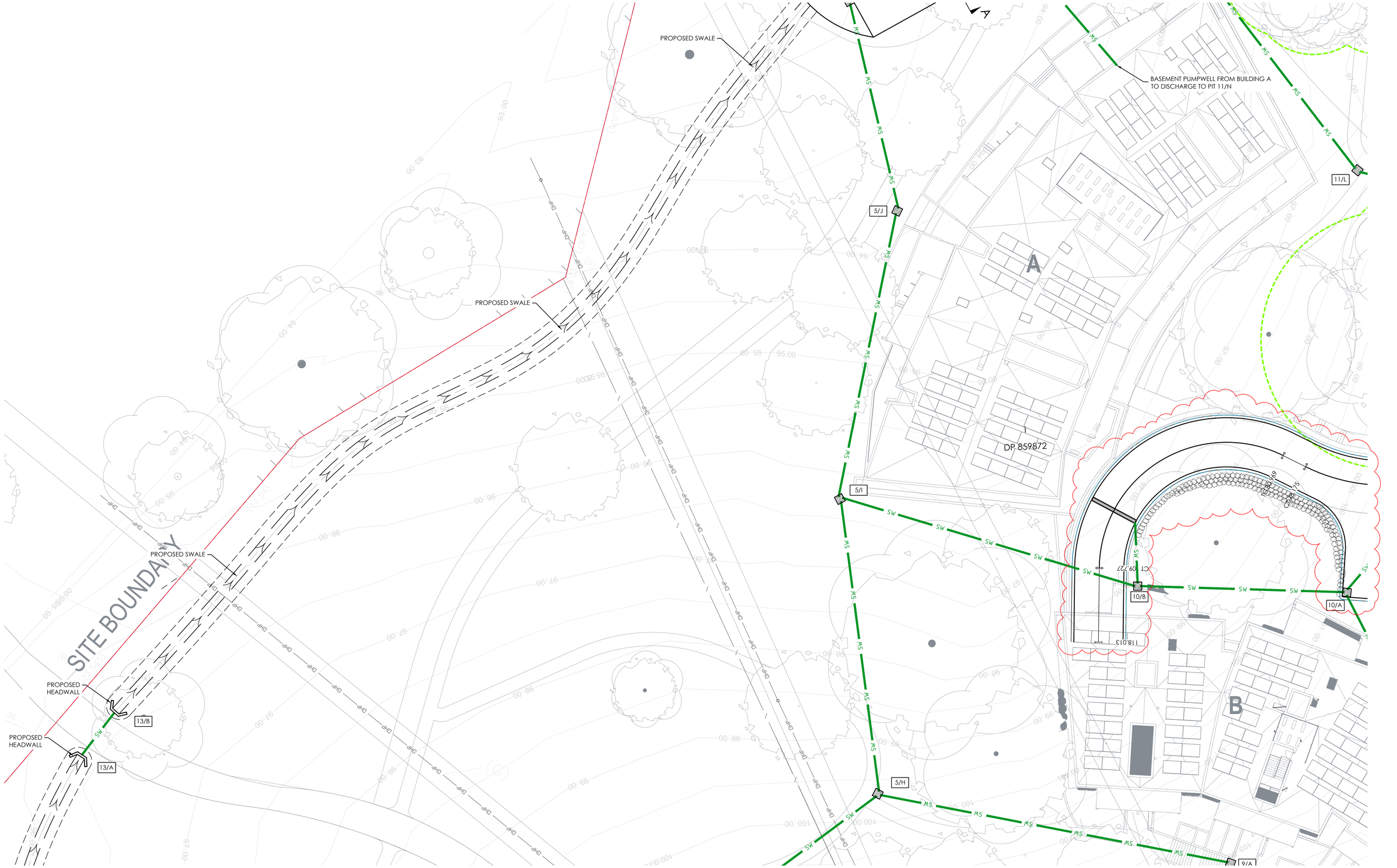
18010611

C301 3



STORMWATER PLAN - SHEET 3

SCALE 1:200

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
STORMWATER PLAN
SHEET 3

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMCM
WWW.JN.COM.AU	

18010611
C302 3



STORMWATER PLAN - SHEET 4

SCALE 1:200

0 4 8 12 16 20m

4 3 2 1

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
STORMWATER PLAN
SHEET 4

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

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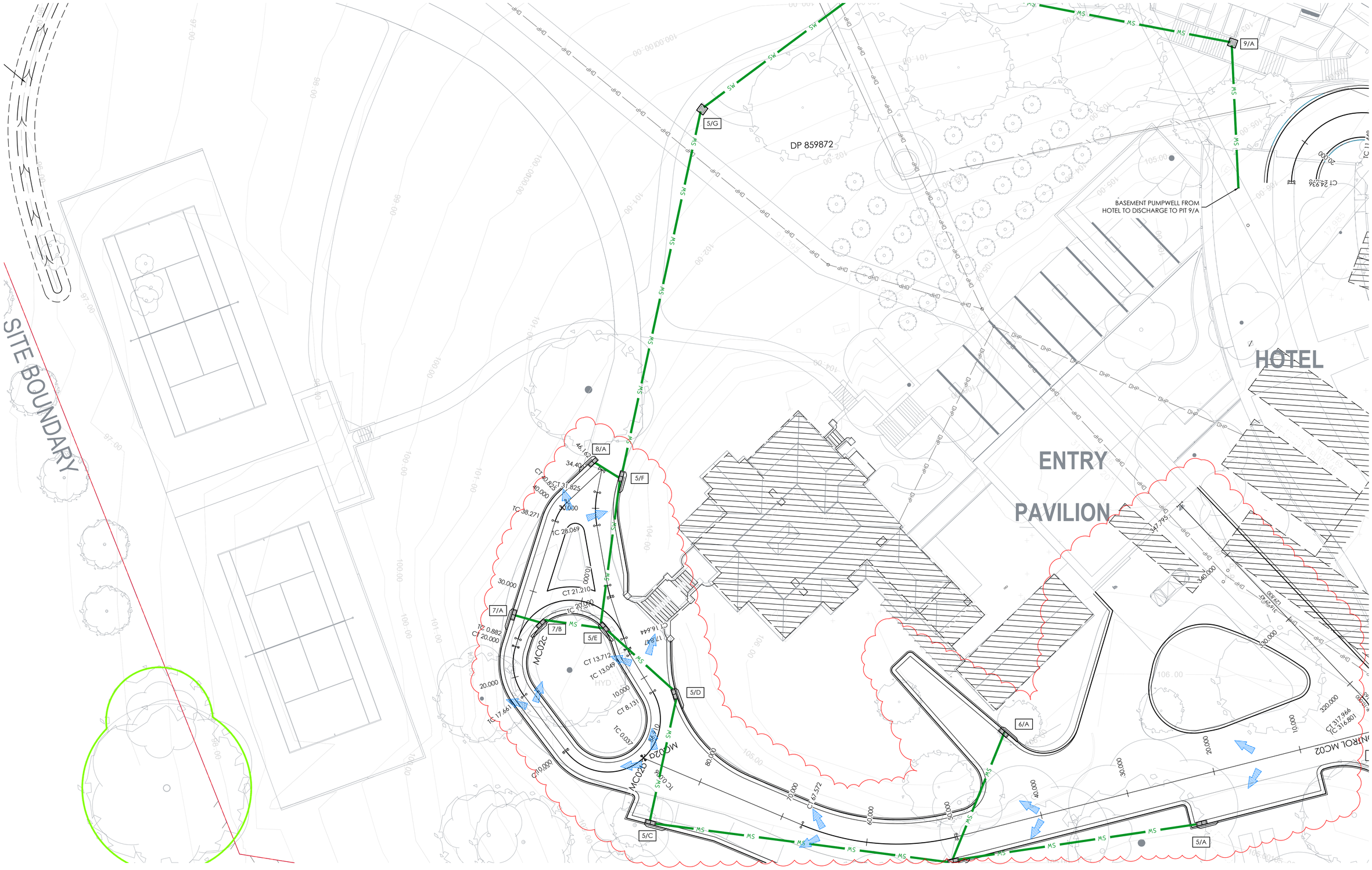
18010611

C303 3


SITE BOUNDARY
DP 859872
HOTEL
ENTRY
PAVILION
BASEMENT PUMPWELL FROM HOTEL TO DISCHARGE TO PIT 9/A
9/A
5/G
8/A
5/F
7/A
7/B
5/E
5/D
6/A
5/C
5/A
MC02C
MC02A
MC02B
HYD
MS
SW
DHP
CT 24.936
CT 40.825
CT 31.825
TC 38.271
TC 28.069
CT 21.210
TC 20.000
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CT 13.712
TC 13.049
CT 8.137
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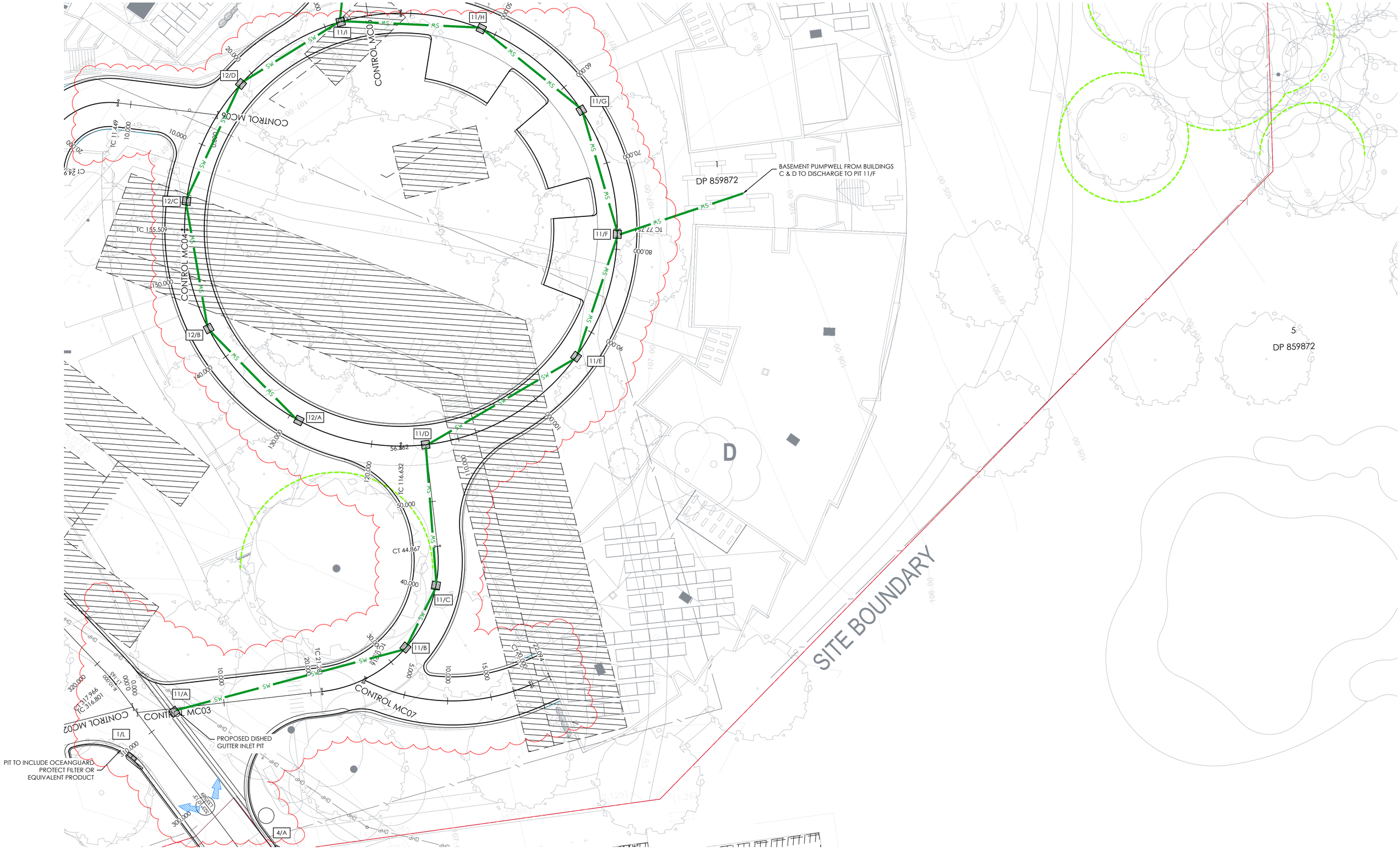

STORMWATER PLAN - SHEET 6

SCALE 1:200

0 4 8 12 16 20m

4 3 2 1

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
STORMWATER PLAN
SHEET 6

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

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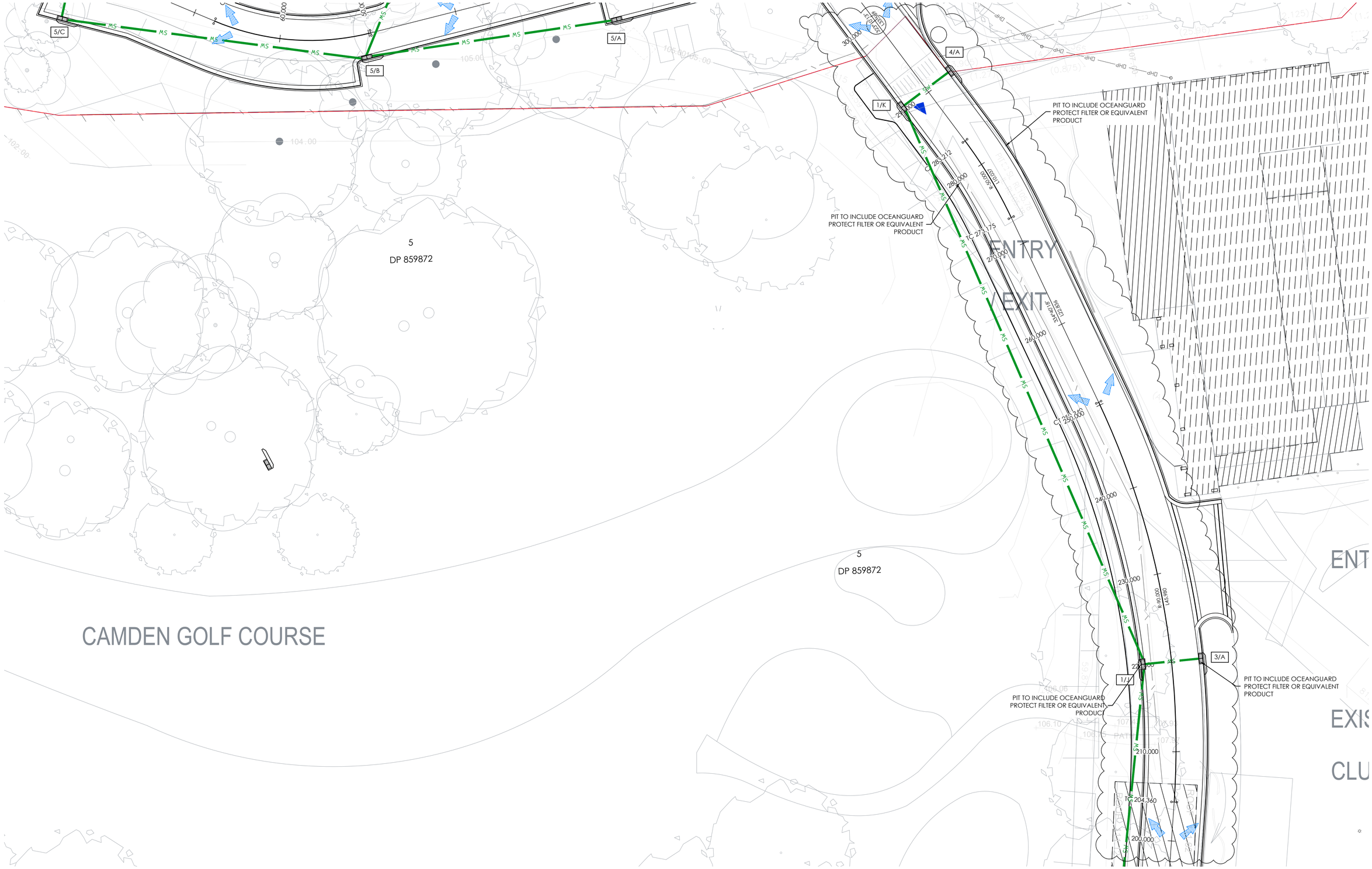
18010611

C305 3



STORMWATER PLAN - SHEET 7

SCALE 1:200

0 4 8 12 16 20m

4 3 2 1

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
STORMWATER PLAN
SHEET 7

PROJECT
STUDLEY PARK

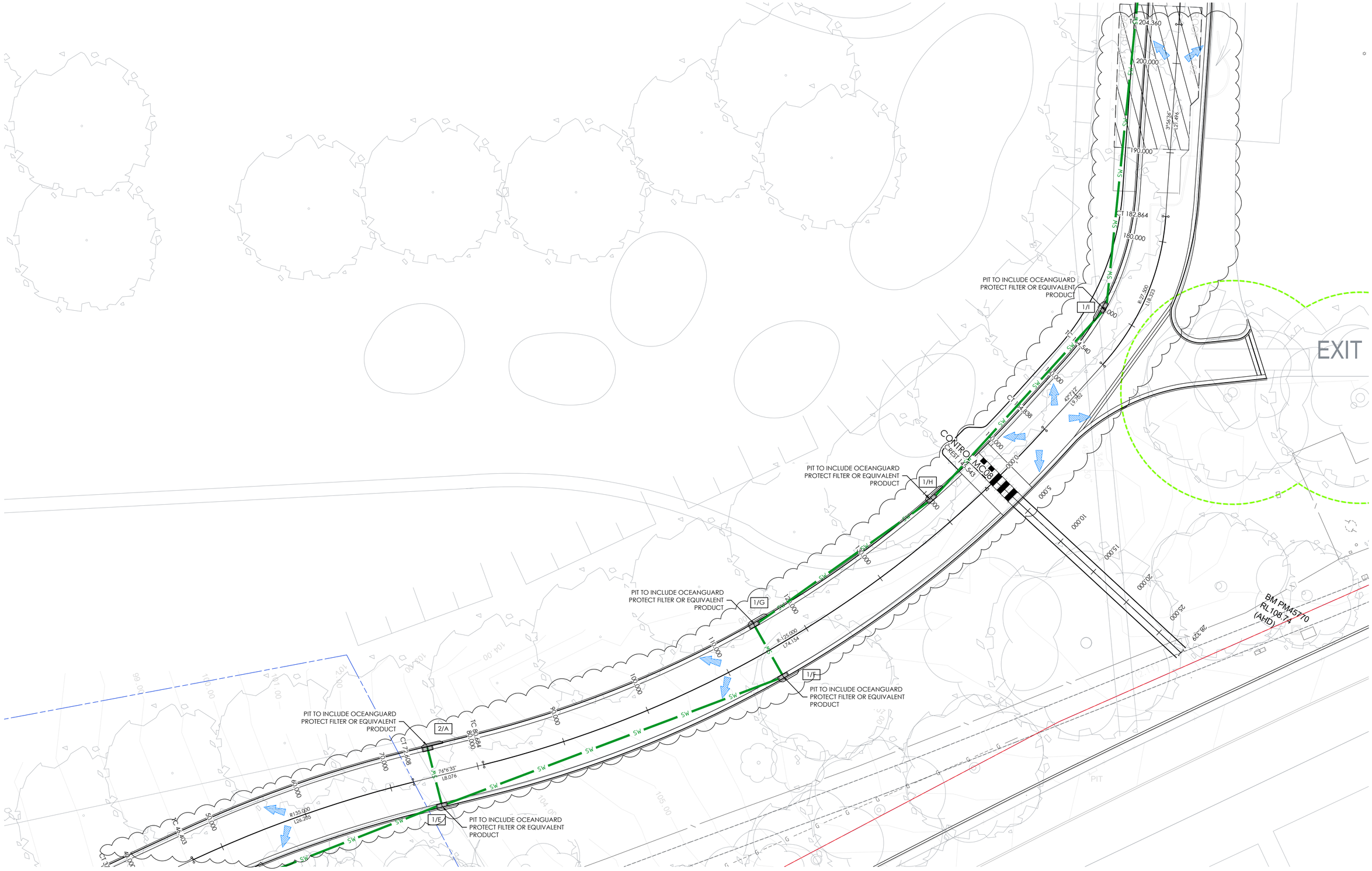
ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMCM

WWW.JN.COM.AU

18010611
C306 3



STORMWATER PLAN - SHEET 8

SCALE 1:200

0 4 8 12 16 20m

4 3 2 1

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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CLIENT
PETER MORAN

STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
STORMWATER PLAN
SHEET 8

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

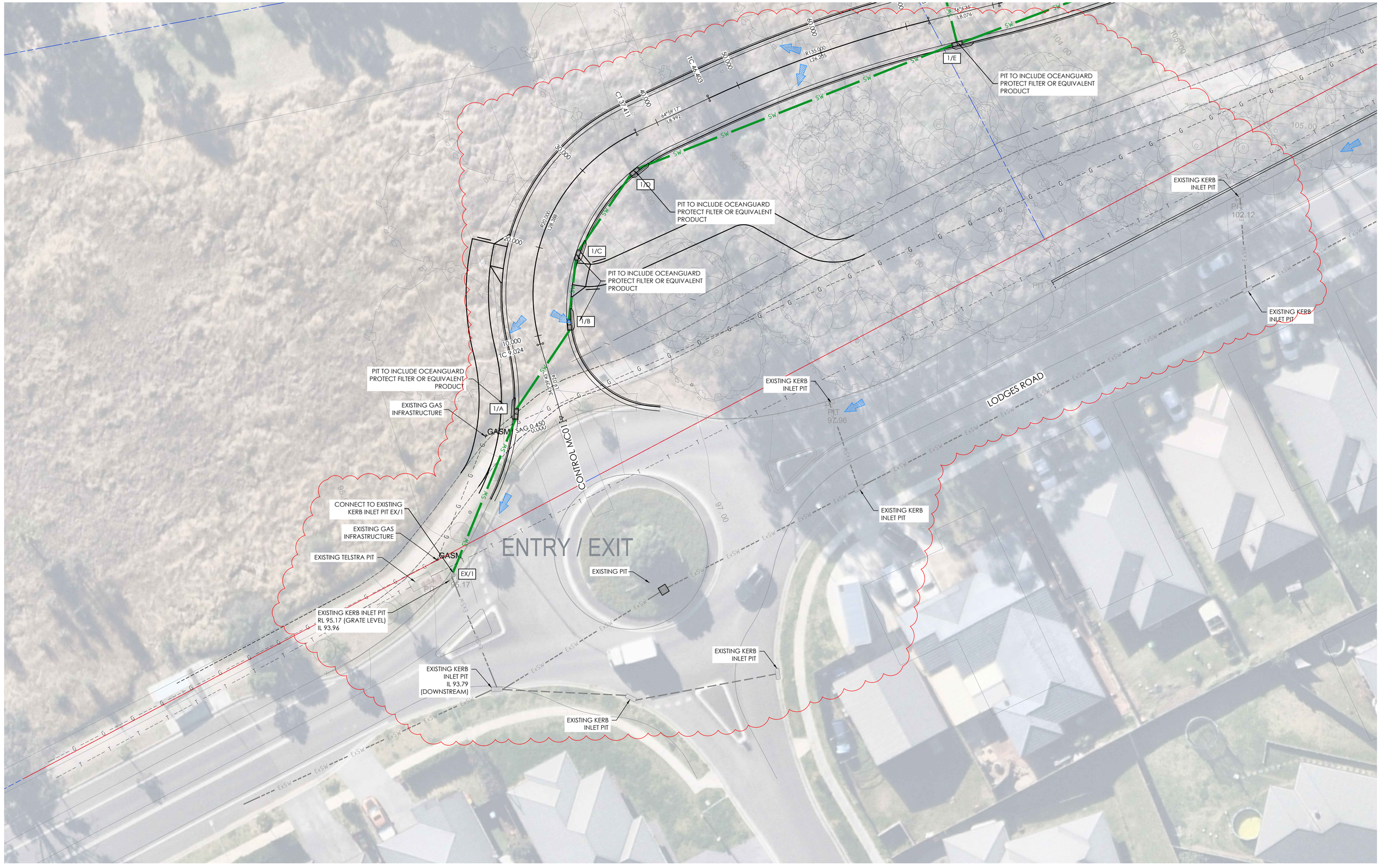
PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

WWW.JN.COM.AU

18010611

C307 3



STORMWATER PLAN - SHEET 9

SCALE 1:200

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

JN Responsive Engineering

CLIENT
PETER MORAN

STATUS
DA ISSUE

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
STORMWATER PLAN
SHEET 9

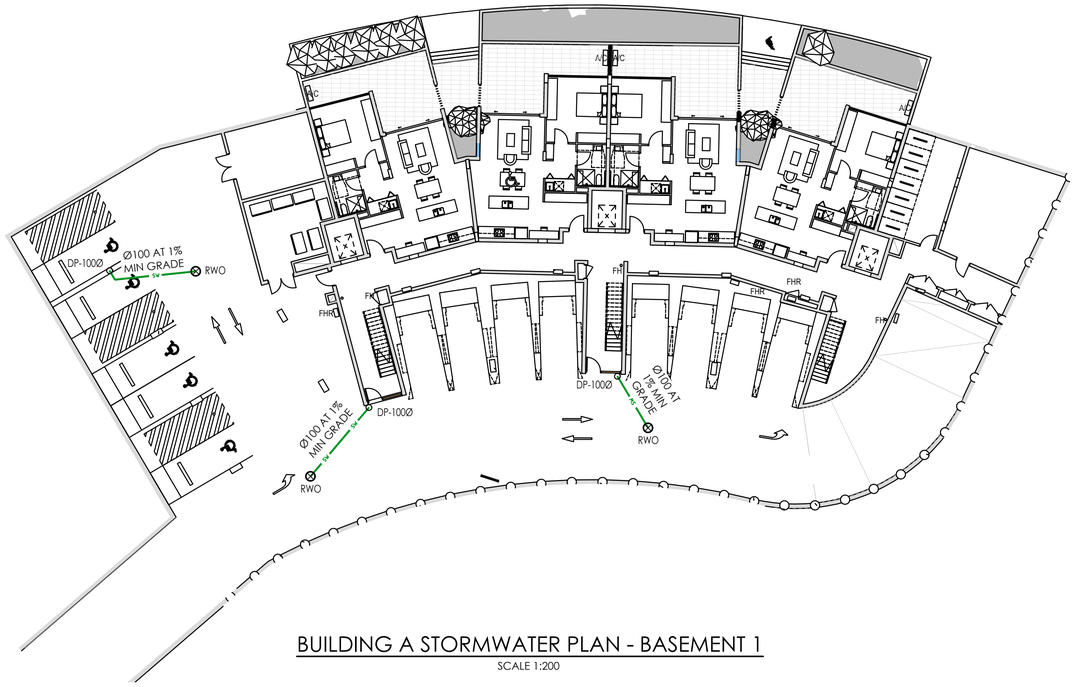
PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS	
DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT	SMCM
MGR	

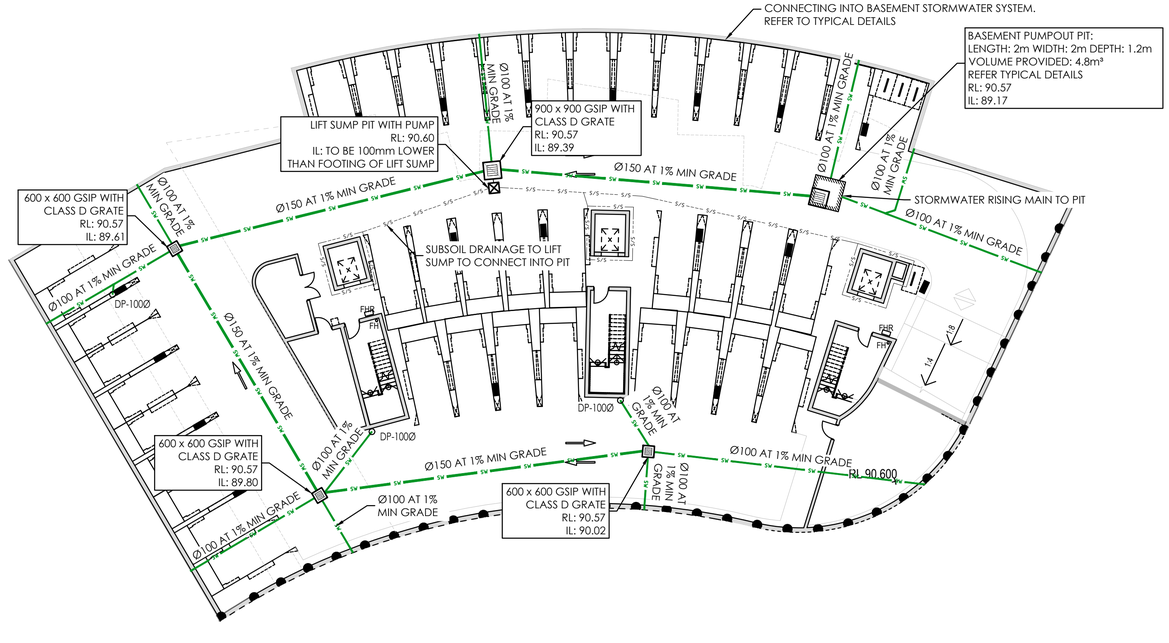
WWW.JN.COM.AU

18010611
C308 3



BUILDING A STORMWATER PLAN - BASEMENT 1

SCALE 1:200



BUILDING A STORMWATER PLAN - LOWER BASEMENT 2

SCALE 1:200

0 4 8 12 16 20m

4 3 2 1

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
BUILDING A BASEMENT STORMWATER PLAN

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

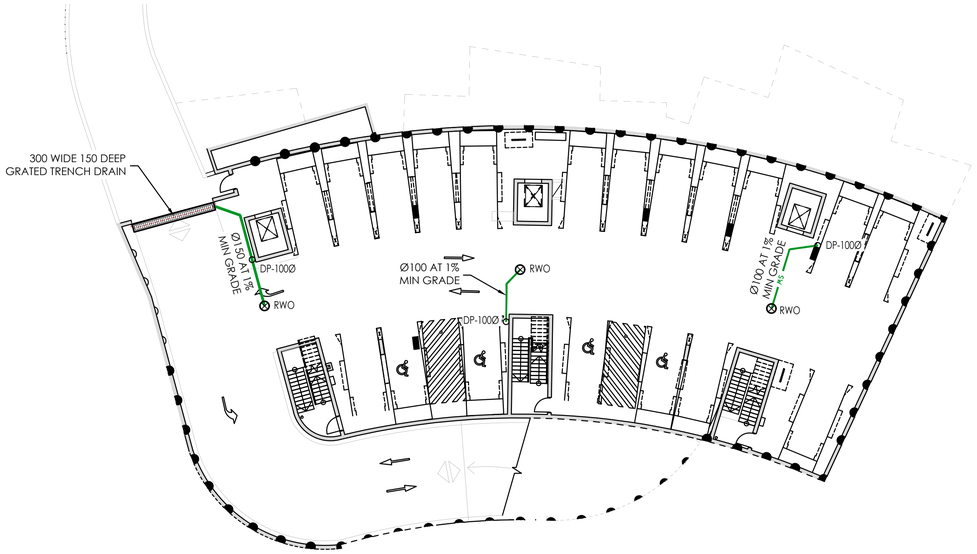
PROJECT DETAILS

DESIGN	CC
DRAWN	AW
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

WWW.JN.COM.AU

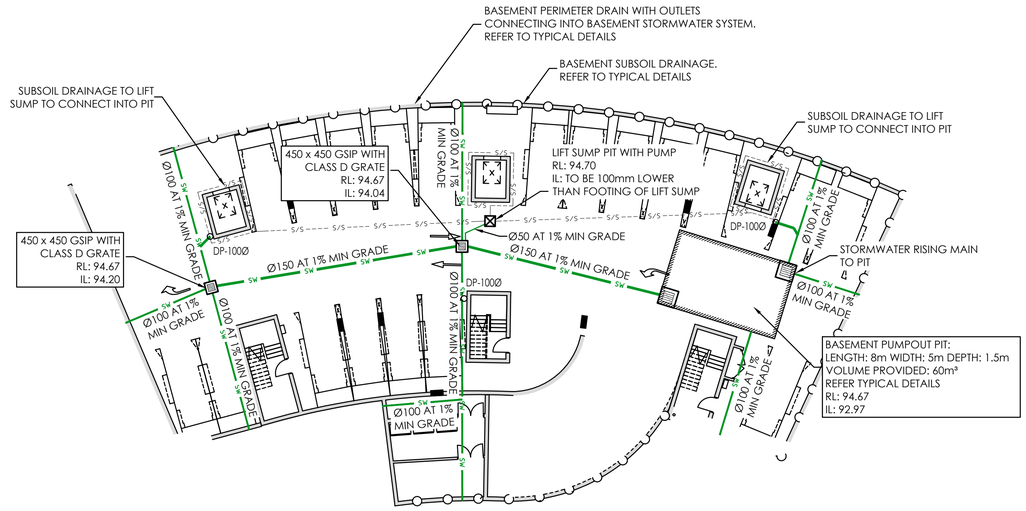
18010611

C400 3



BUILDING B STORMWATER PLAN - BASEMENT 1

SCALE 1:200



BUILDING B STORMWATER PLAN - LOWER BASEMENT 2

SCALE 1:200

0 4 8 12 16 20m
4 3 2 1
SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
BUILDING B BASEMENT
STORMWATER PLAN

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	AW
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

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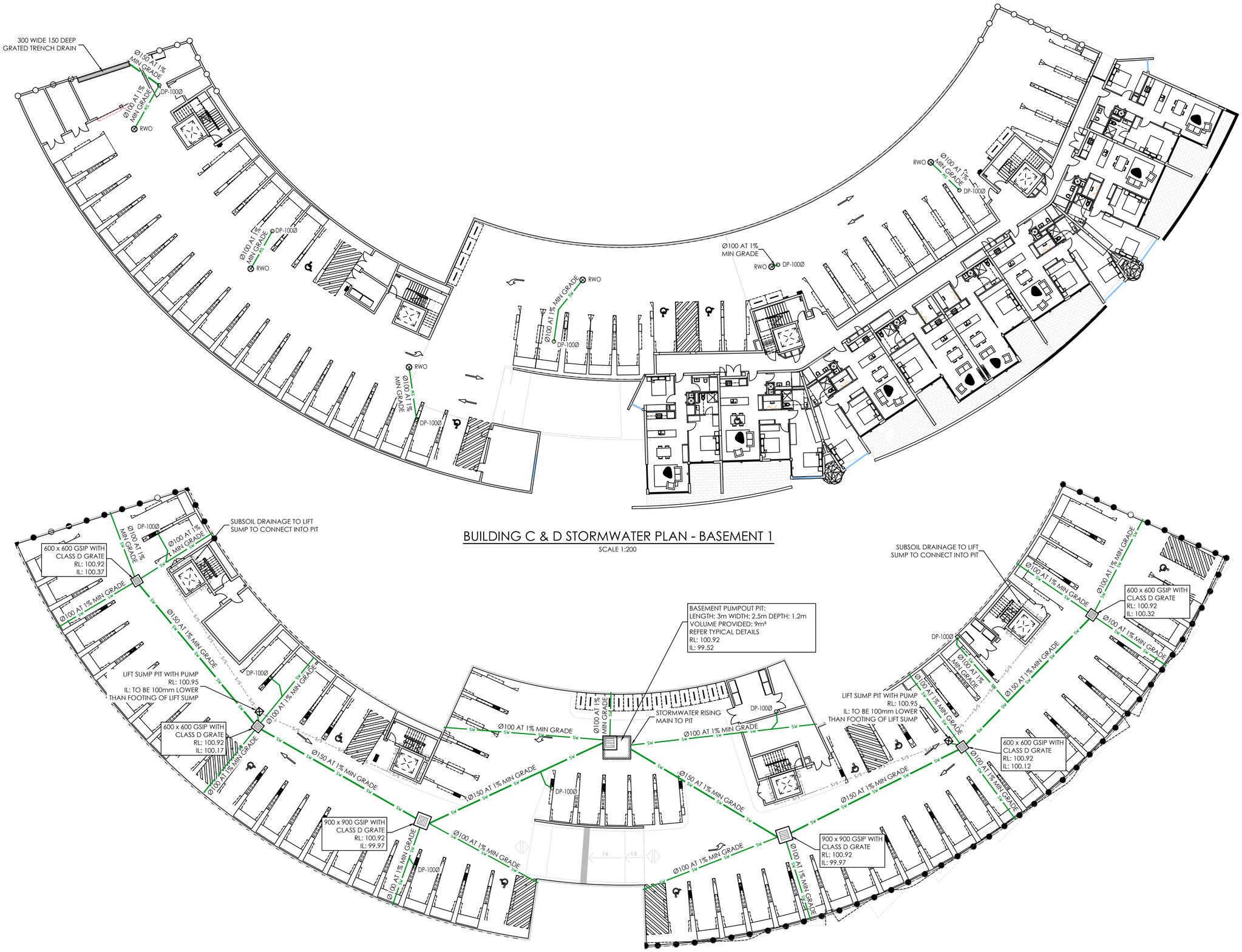
18010611
C500 3



BUILDING C & D STORMWATER PLAN - BASEMENT 1

SCALE 1:200

BUILDING C & D STORMWATER PLAN - LOWER BASEMENT 2

SCALE 1:200

0 4 8 12 16 20m

4 3 2 1

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
BUILDING C & D BASEMENT STORMWATER PLAN

PROJECT
STUDLEY PARK

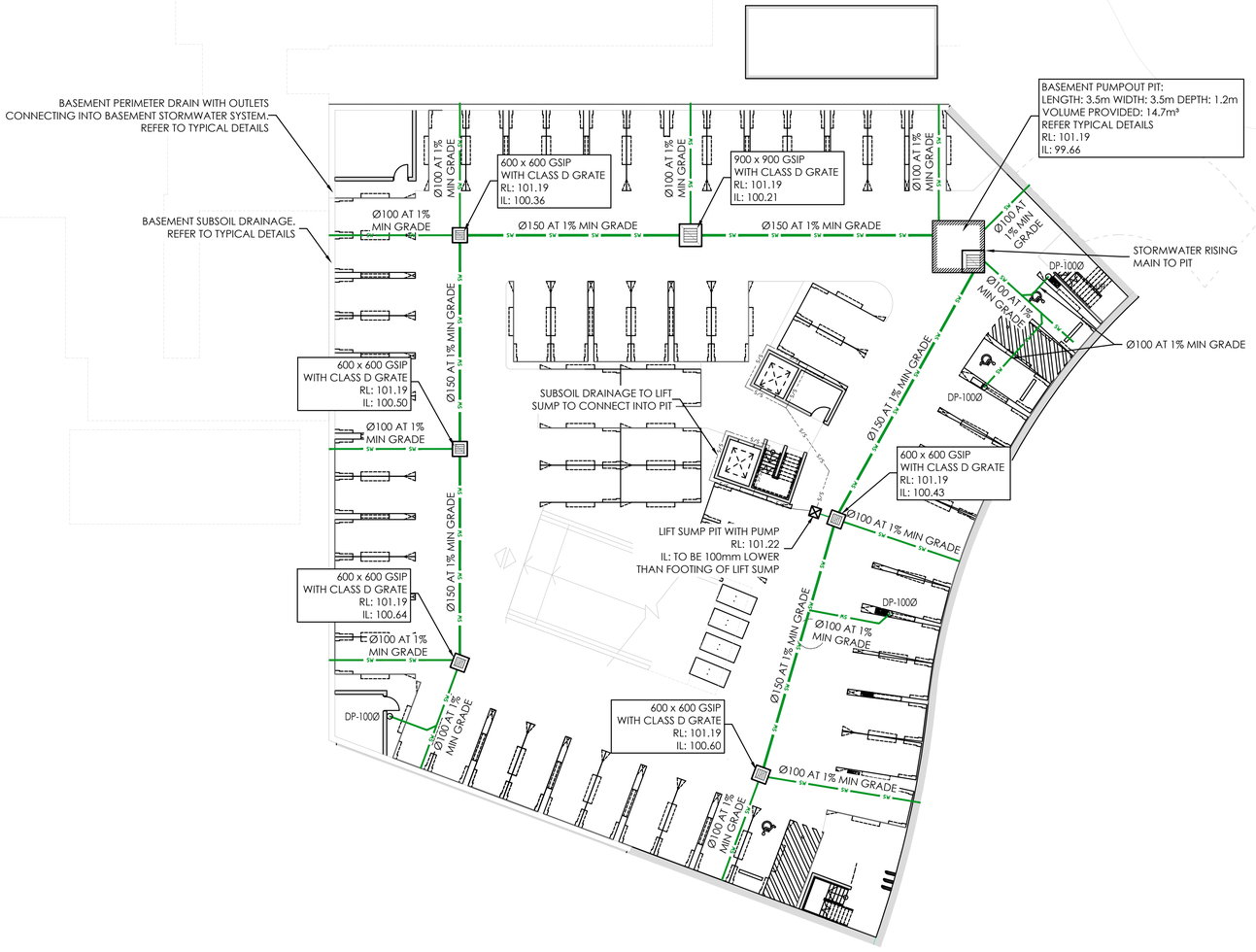
ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	AW
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMCM
WWW.JN.COM.AU	

18010611

C600 3



HOTEL STORMWATER PLAN - BASEMENT

SCALE 1:200

0 4 8 12 16 20m

4 3 2 1

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
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2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
HOTEL BASEMENT STORMWATER PLAN

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	AW
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMcM

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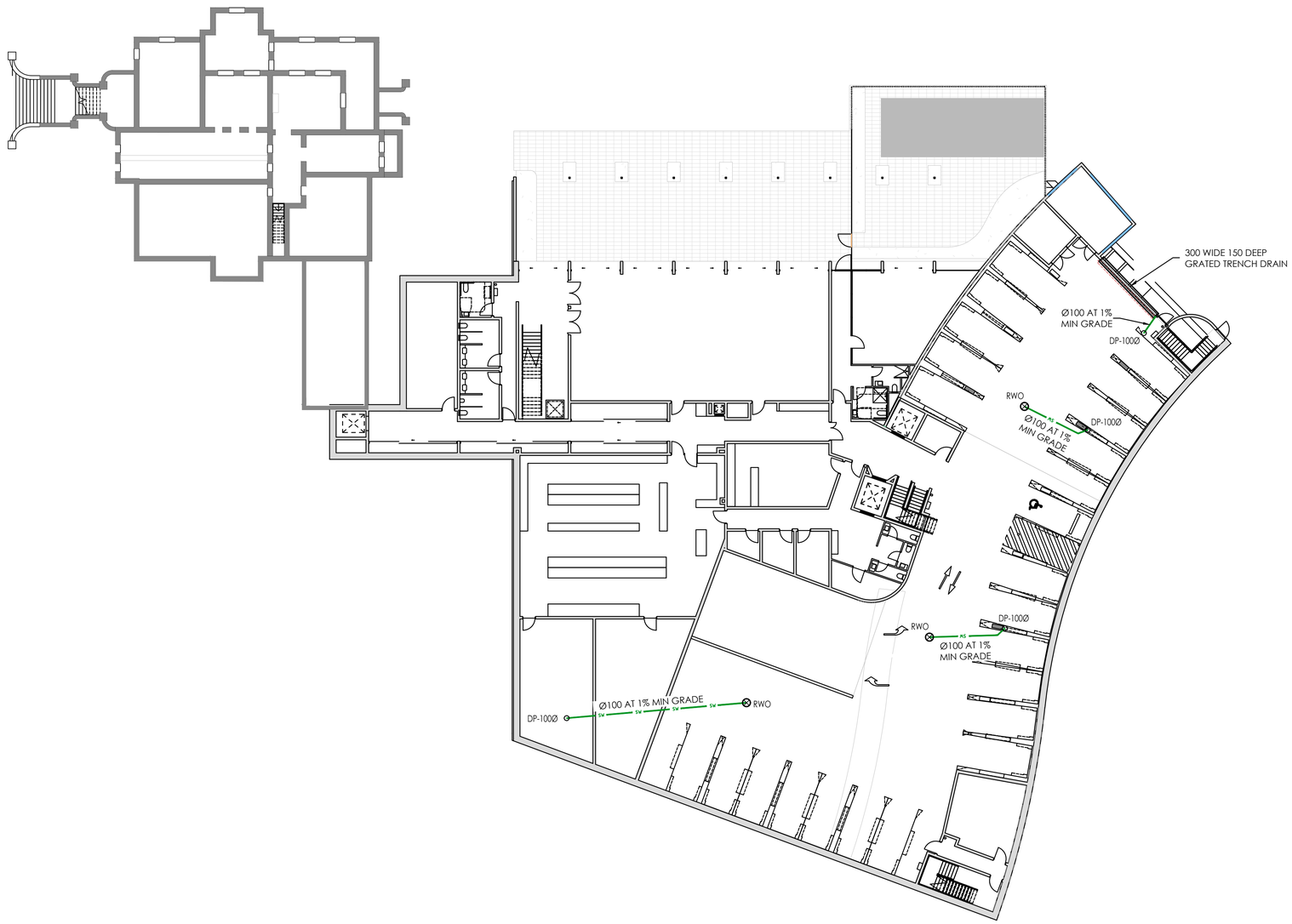
18010611

C700 3



HOTEL STORMWATER PLAN - LOWER GROUND

SCALE 1:200

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
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2	17.03.23	DA ISSUE - CIVIL	LTR
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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
HOTEL LOWER GROUND
STORMWATER PLAN

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

0 4 8 12 16 20m
4 3 2 1
SCALE 1:200

PROJECT DETAILS

DESIGN	CC
DRAWN	AW
DATE	FEB 22
DRG SIZE	A1
SCALE	1:200
PROJECT MGR	SMCM

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18010611
C701 3

CAMDEN GOLF COURSE

PROPOSED 644m³ TEMPORARY SEDIMENT AND EROSION CONTROL BASIN DURING CONSTRUCTION WORKS TO BE PLACED AT THE OSD BIORETENTION BASIN LOCATION

REFER TO SEDIMENT AND EROSION CONTROL BASIN CALCULATIONS AND DETAILS ON SHEET C061. SEDIMENT AND EROSION CONTROL BASIN TO BE REDUCED IN SIZE AND TRANSFORMED TO OSD BIORETENTION BASIN AS SHOWN ON SHEET C300

PROPOSED SEDIMENT CONTROL FENCING, REFER TO DETAILS

PROPOSED STOCKPILE LOCATION, REFER TO DETAILS

PROPOSED SITE EQUIPMENT LOCATION, REFER TO DETAILS

SITE BOUNDARY

LOT 1

DP859872

SITE AREA: 55321m

HOTEL

ENTRY

PAVILION

A

B

C

D

CAMDEN

0 10 20 30 40 50m

SCALE 1:500

EROSION AND SEDIMENT CONTROL PLAN - NORTH

SCALE 1:500

NOT TO BE USED FOR CONSTRUCTION

AMDT	DATE	DESCRIPTION	BY
3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
EROSION AND SEDIMENT CONTROL PLAN - NORTH

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:500
PROJECT MGR	SMCM

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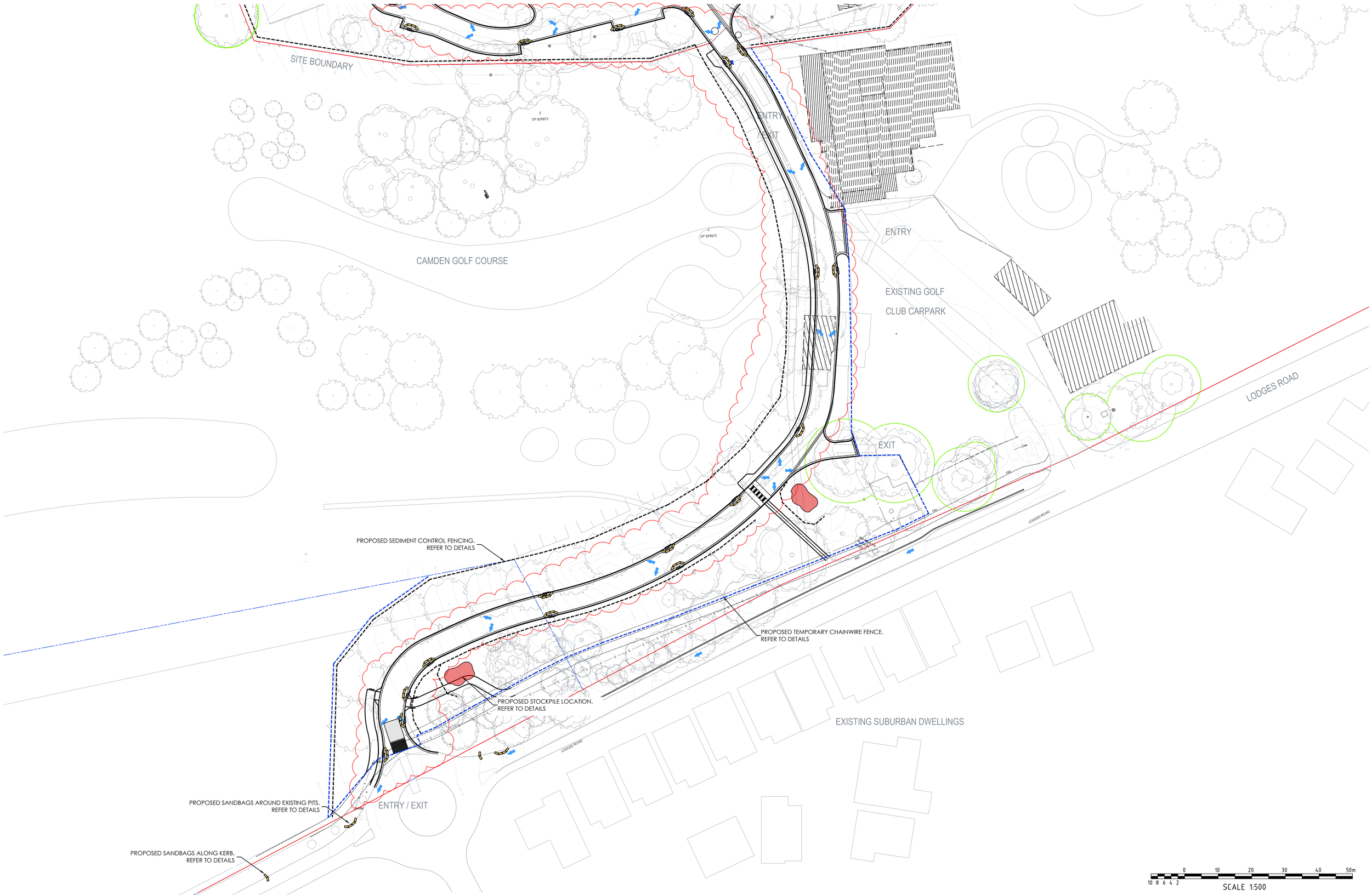
18010611

C800 3



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3	26.08.24	RE-ISSUE FOR DA	SC
2	17.03.23	DA ISSUE - CIVIL	LTR
1	11.03.22	DA ISSUE - CIVIL	AW

EROSION AND SEDIMENT CONTROL PLAN - SOUTH

SCALE 1:500

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DISCIPLINE
CIVIL DESIGN

DRAWING TITLE
EROSION AND SEDIMENT CONTROL PLAN - SOUTH

PROJECT
STUDLEY PARK

ADDRESS
52 LODGES ROAD
NARELLAN NSW 2567

PROJECT DETAILS

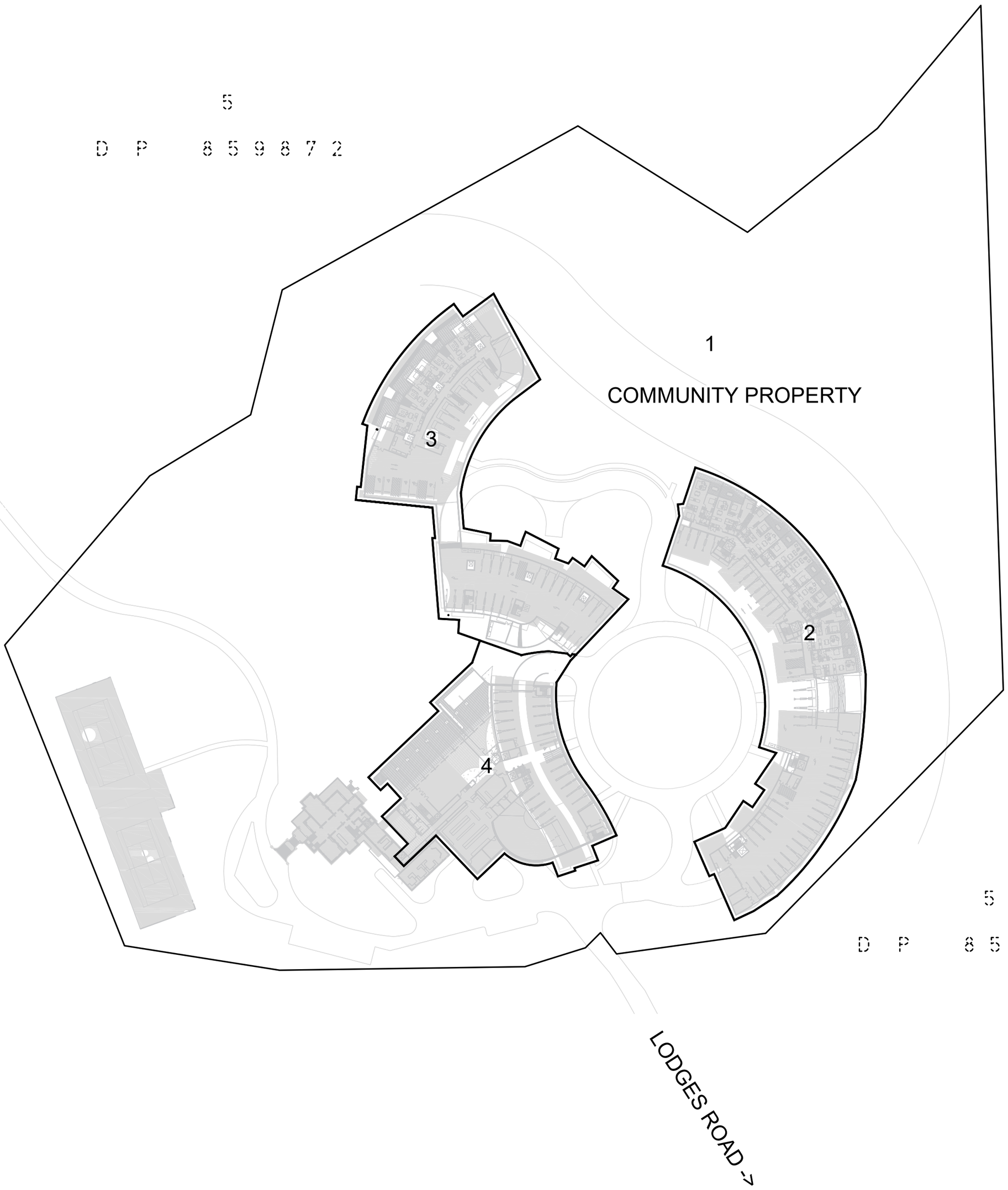
DESIGN	CC
DRAWN	ER
DATE	FEB 22
DRG SIZE	A1
SCALE	1:500
PROJECT	SMcM
MGR	

WWW.JN.COM.AU

18010611

C801 3

LOCATION DIAGRAM



THIS SHEET IS BEING CONTINUALLY UPDATED TO SHOW THE CURRENT SUBDIVISION PATTERN OF THE SCHEME. FOR DETAILS OF UPDATES AND ADDITIONAL AND REPLACEMENT SHEETS SEE SCHEDULE BELOW.

SCHEDULE OF CHANGES TO THE SCHEME

LOT No.	DETAILS	SHEET No.

Subdivision Certificate No:

Date: 11 November 2021

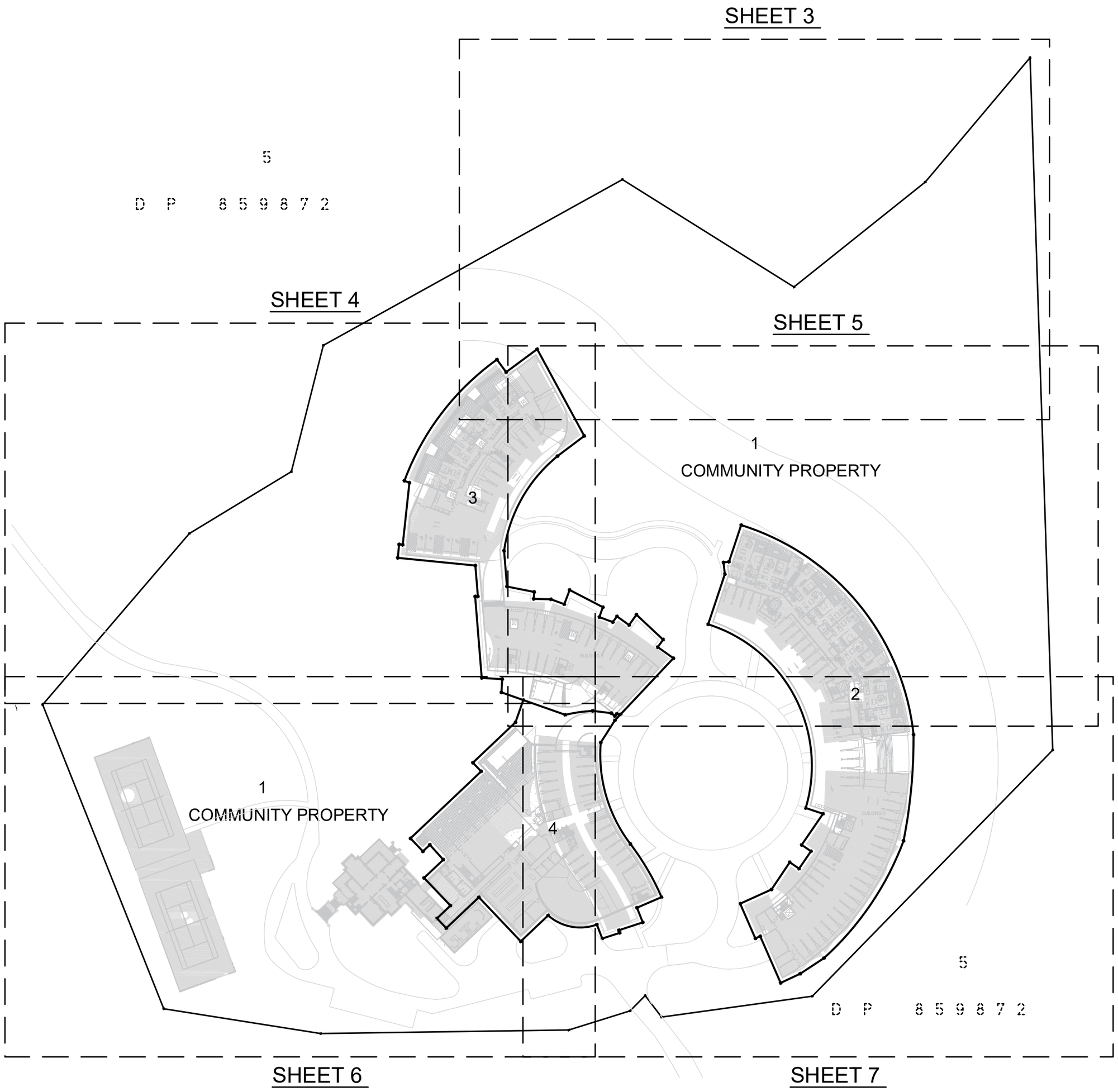
Surveyor: Jonathan Donald Saxon
Surveyor's Ref: 5132-Draft DP

Registered

DRAFT
COMMUNITY/PRECINCT/NEIGHBOURHOOD PLAN

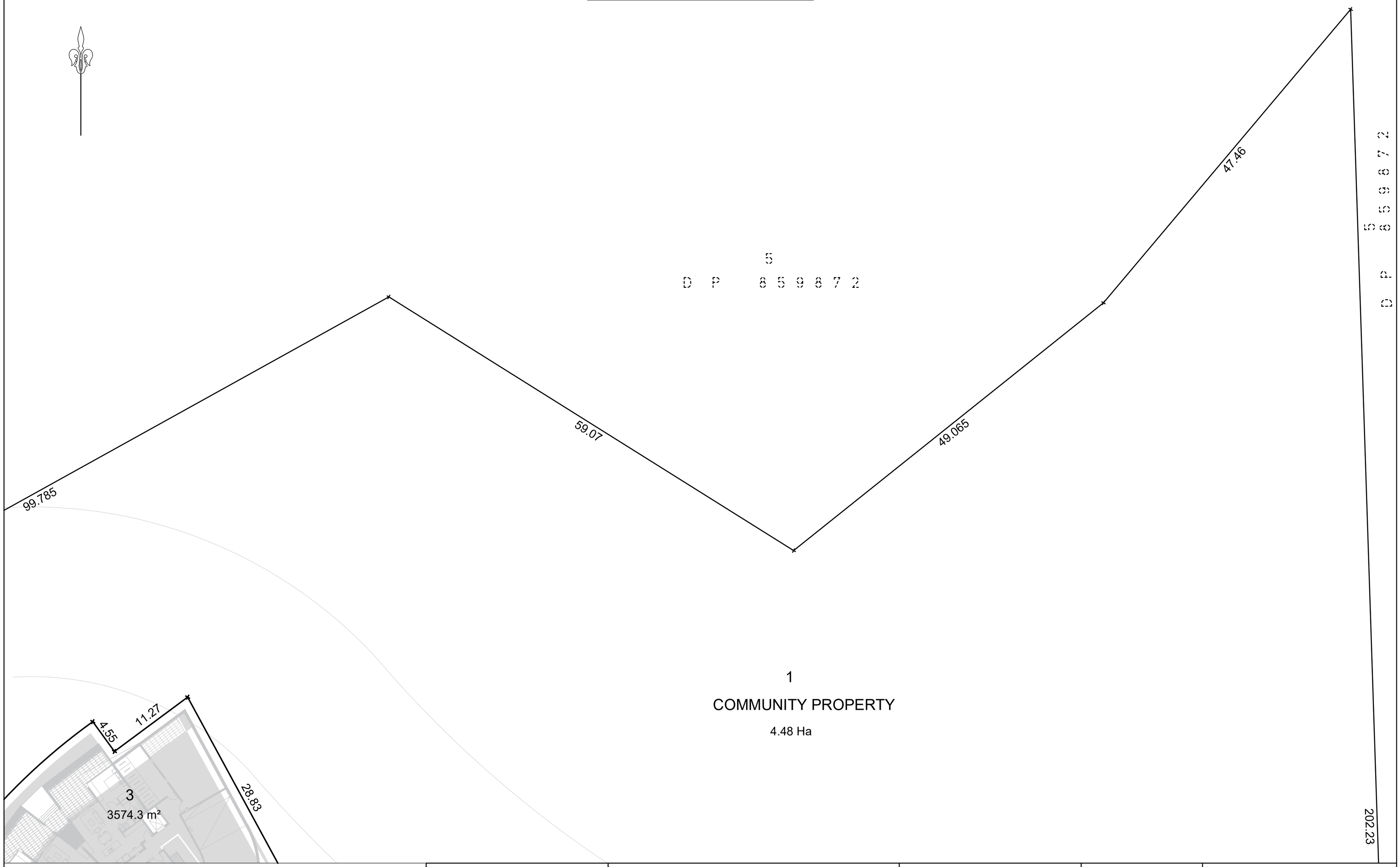
DP859872

COMMUNITY PROPERTY PLAN
SHEET LAYOUT



	SURVEYOR Name: JONATHAN DONALD SAXON Date: 11 November 2021 Reference: 5132-Draft DP	PLAN OF PROPOSED SUBDIVISION LOT 1 IN DP859872	LGA: CAMDEN Locality: NARELLAN Reduction Ratio: 1:1000 Lengths are in metres	REGISTERED	DRAFT DP

COMMUNITY PROPERTY PLAN



	SURVEYOR Name: JONATHAN DONALD SAXON Date: 11 November 2021 Reference: 5132-Draft DP	PLAN OF PROPOSED SUBDIVISION LOT 1 IN DP859872	LGA: CAMDEN Locality: NARELLAN Reduction Ratio: 1:300 Lengths are in metres	REGISTERED	DRAFT DP

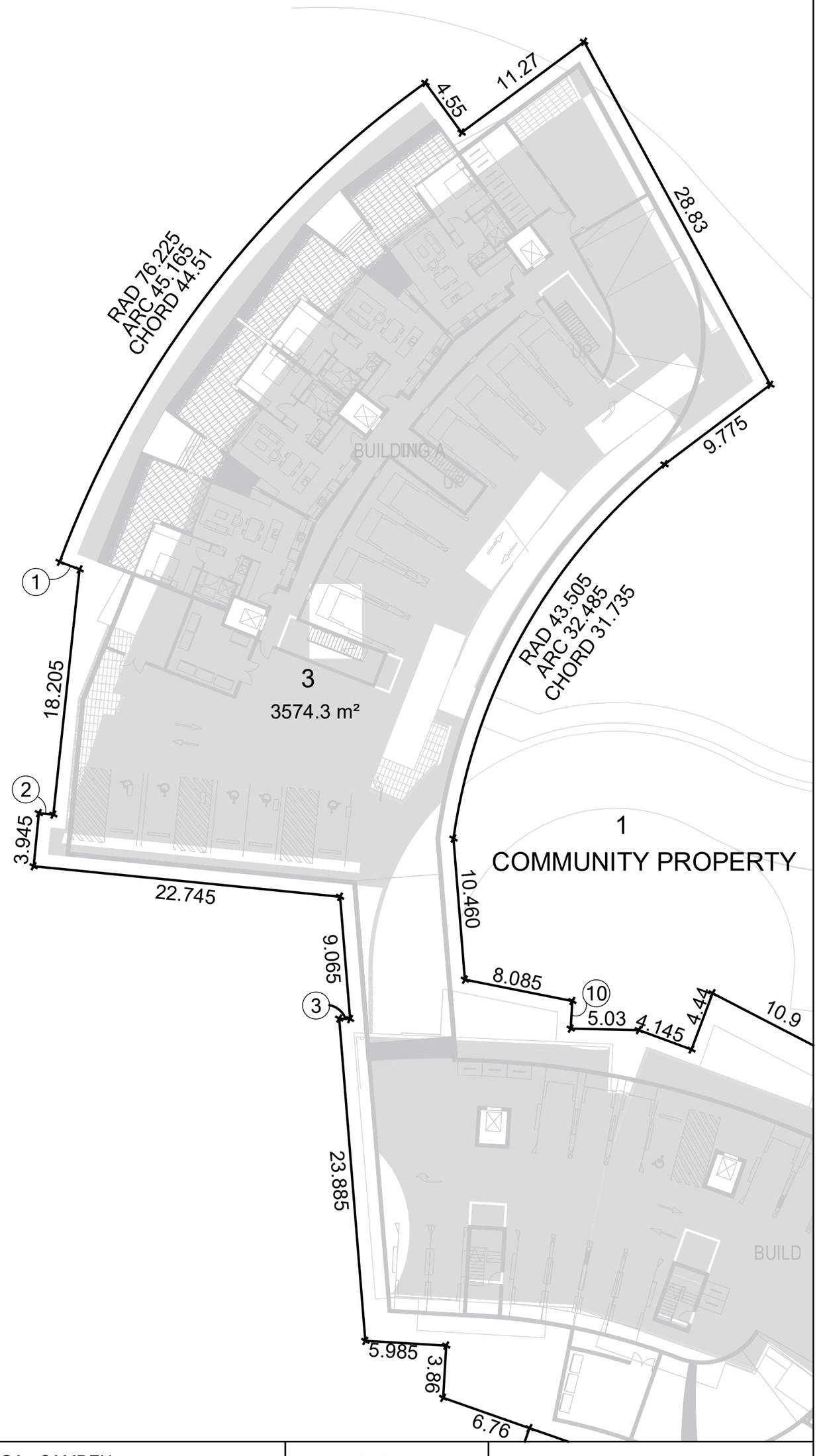
COMMUNITY PROPERTY PLAN



5
D P 8 5 9 8 7 2

38.025
34.83
65.775

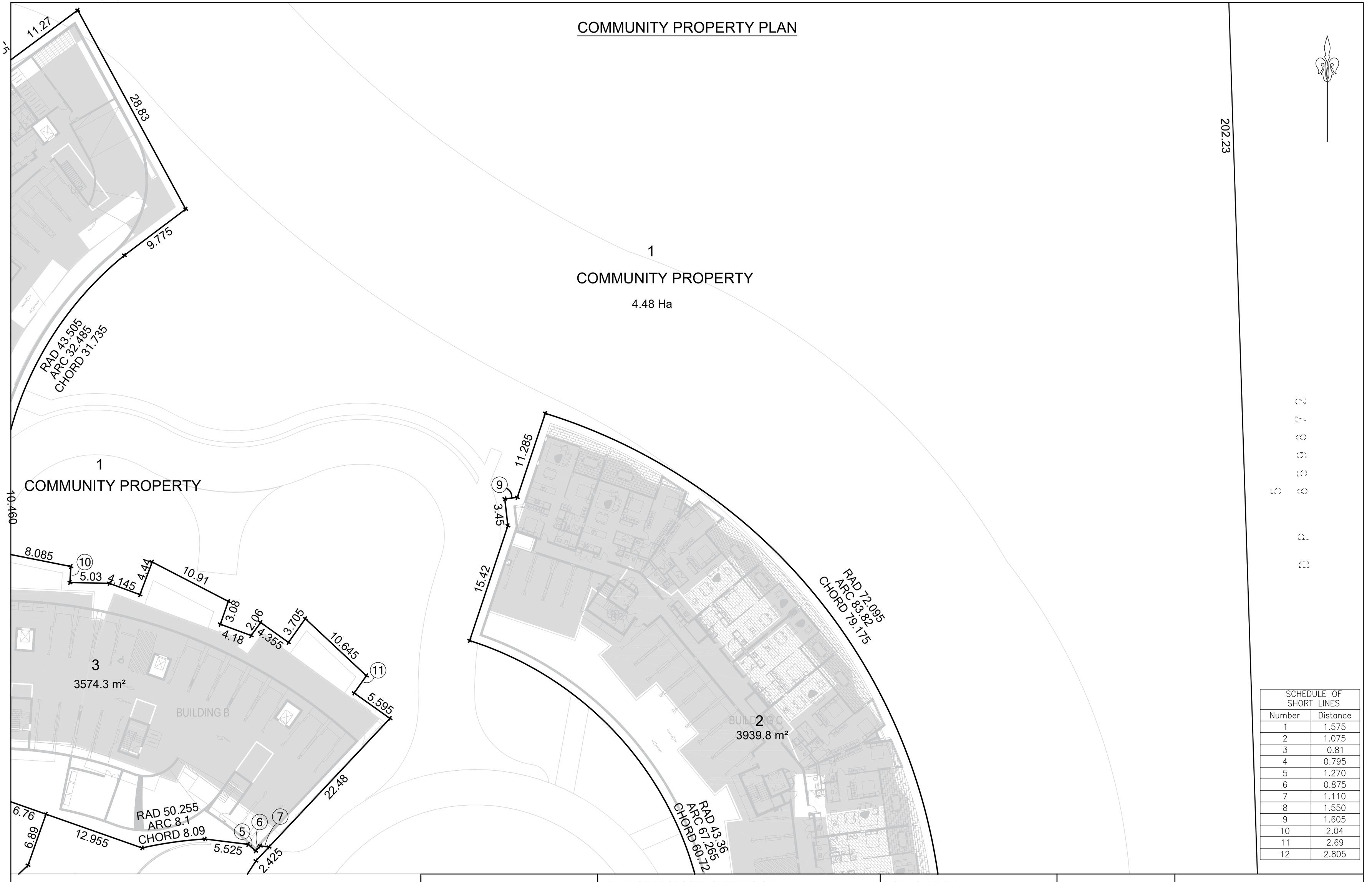
1
COMMUNITY PROPERTY
4.48 Ha



SCHEDULE OF SHORT LINES	
Number	Distance
1	1.575
2	1.075
3	0.81
4	0.795
5	1.270
6	0.875
7	1.110
8	1.550
9	1.605
10	2.04
11	2.69
12	2.805

	SURVEYOR Name: JONATHAN DONALD SAXON Date: 11 November 2021 Reference: 5132- Draft DP	PLAN OF PROPOSED SUBDIVISION LOT 1 IN DP859872	LGA: CAMDEN Locality: NARELLAN Reduction Ratio: 1:300 Lengths are in metres	REGISTERED	DRAFT DP

COMMUNITY PROPERTY PLAN



SCHEDULE OF SHORT LINES	
Number	Distance
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4	0.795
5	1.270
6	0.875
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8	1.550
9	1.605
10	2.04
11	2.69
12	2.805

SURVEYOR
Name: JONATHAN DONALD SAXON
Date: 11 November 2021
Reference: 5132-Draft DP

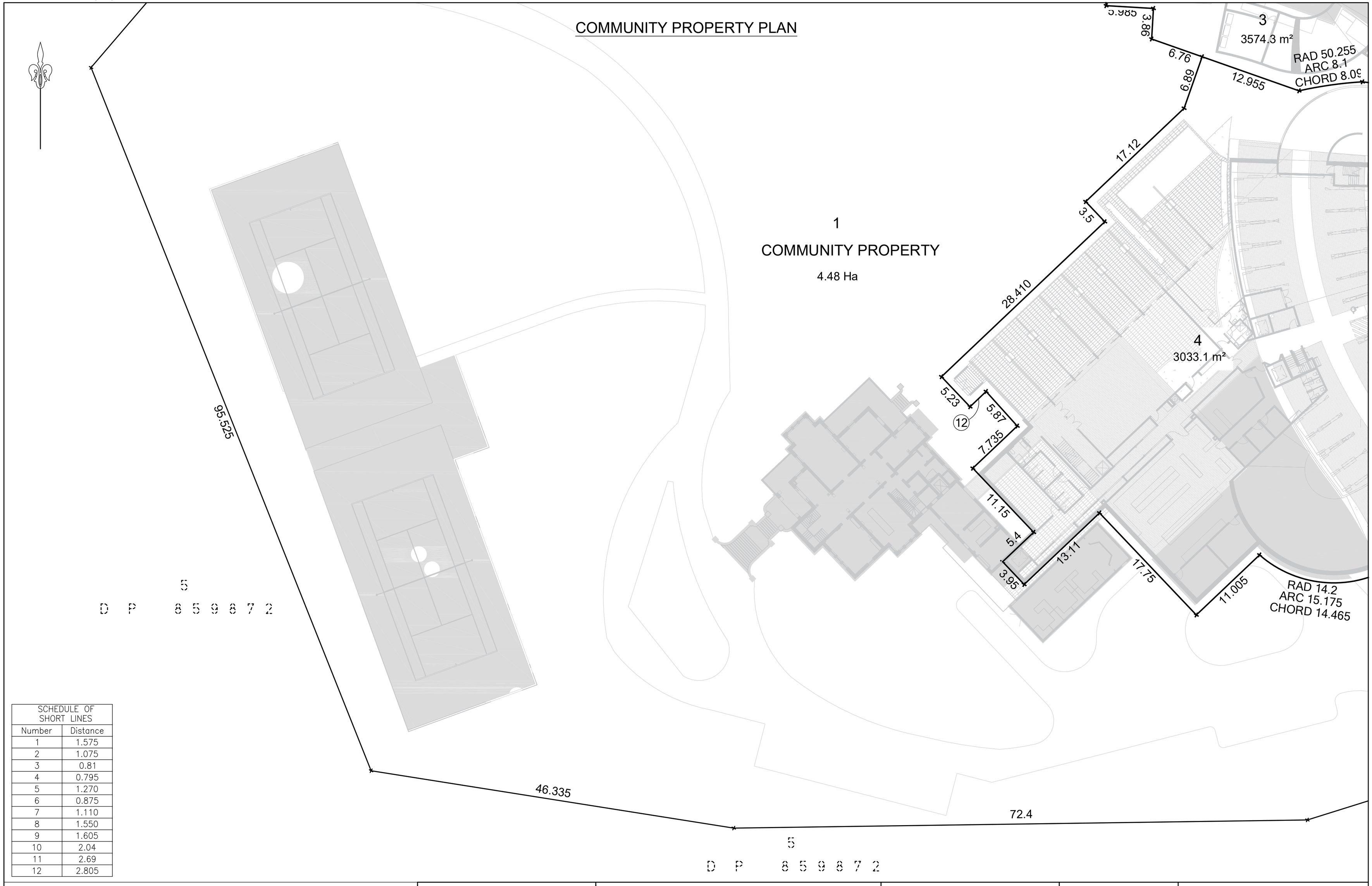
PLAN OF PROPOSED SUBDIVISION
LOT 1 IN DP859872

LGA: CAMDEN
Locality: NARELLAN
Reduction Ratio: 1:300
Lengths are in metres

REGISTERED

DRAFT DP

COMMUNITY PROPERTY PLAN



SCHEDULE OF SHORT LINES	
Number	Distance
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3	0.81
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11	2.69
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SURVEYOR
Name: JONATHAN DONALD SAXON
Date: 11 November 2021
Reference: 5132-Draft DP

PLAN OF PROPOSED SUBDIVISION
LOT 1 IN DP859872

LGA: CAMDEN
Locality: NARELLAN
Reduction Ratio: 1:300
Lengths are in metres

REGISTERED

DRAFT DP

COMMUNITY PROPERTY PLAN

1
COMMUNITY PROPERTY
4.48 Ha

1
COMMUNITY PROPERTY

2
3939.8 m²

3
3574.3 m²

4
3033.1 m²

HOTEL

BUILDING D

RAD 50.255
ARC 8.1
CHORD 8.09

12.955
5.525
2.425
7.67
22.48

RAD 42.9
ARC 31.565
CHORD 30.86

RAD 73.275
ARC 18.01
CHORD 17.965

7.805
4.615
7.32
4.38
5.395
11.005

RAD 14.2
ARC 15.175
CHORD 14.465

RAD 43.36
ARC 67.265
CHORD 60.72

5.315
11.015
3.275
3.285
6.15
9.55
10.045
11.06
14.865
6.320
8.285

RAD 154.6
ARC 31.18
CHORD 31.13

100.38

RAD 87.605
ARC 41.775
CHORD 41.38

18.73
6.28
7.88
44.41

D P 859872

SCHEDULE OF SHORT LINES	
Number	Distance
1	1.575
2	1.075
3	0.81
4	0.795
5	1.270
6	0.875
7	1.110
8	1.550
9	1.605
10	2.04
11	2.69
12	2.805

SURVEYOR
Name: JONATHAN DONALD SAXON
Date: 11 November 2021
Reference: 5132-Draft DP

PLAN OF PROPOSED SUBDIVISION
LOT 1 IN DP859872

LGA: CAMDEN
Locality: NARELLAN
Reduction Ratio: 1:300
Lengths are in metres

REGISTERED

DRAFT DP