Colston Budd Rogers & Kafes Pty Ltd 11212 - Eastlakes South

GENERAL COMPLIANCE FOR RETAIL/RESIDENTIAL - AS2890.1-2004

RAMP GRADES:

Maximum grade of 1:20 for 6 metres prior to property boundary.

Maximum grade of 1:6 for ramps longer than 20 metres.

Maximum grade of 1:5 for ramps up to 20m in length.

Maximum change in grade of - 1:8 for summit grade change, and

- 1:6.7 for sag grade changes.

Transitions of 2.0m should be adequate for changes in grade larger than above.

Grades to be measured along shortest distance between two RLs.

i.e. on curved ramps grades to be measured along inside edge.

RAMP WIDTHS

Straight ramps - One way - minimum width 3.0m plus 0.3m clearance on both sides.

- Two way - minimum width 5.5m plus 0.3m clearance on both sides.

Curved ramps - minimum inside radius 4.0m.

- minimum circulation width 3.9m.
- for two way ramp 0.6m separator between circulation roadways.
- clearances of 0.3m inside and 0.5m outside to walls and vertical obstructions.

Intersections between ramps/roadways/aisles should be checked using B99 percentile turning template.

PARKING BAYS

Residential parking bays 2.4m wide x 5.4m long

Visitor parking bays 2.5m wide x 5.4m long.

Retail parking bays 2.6m wide x 5.4 long. (2.7m wide with narrower aisle, see below)

Disabled parking bays 2.4m wide x 5.4m long with a 2.4m wide shared zone in accordance with AS2890.6-2009.

Columns should be set back 0.75m from front of parking bay.

0.3m clearance should be provided to adjacent walls.

Columns, walls and other obstructions should be kept clear of the vehicle

design envelope, Figure 5.2 AS2890.1-2004.

Blind aisles shall be extended 1.0m beyond last parking space.

AISLES

Minimum aisle widths should be;

Residential/Visitors - 5.8m to kerb or parking opposite.

- 6.1m to wall or other vertical obstruction.

Retail/Shopping Centre 2.6m wide spaces - 6.6m to kerb or parking opposite.

- 6.9m to wall or other vertical obstruction.

Retail/Shopping Centre 2.7m wide spaces - 6.2m to kerb or parking opposite.

- 6.5m to wall or other vertical obstruction.

HEIGHT CLEARANCES TO STRUCTURE AND SERVICES

2.2m minimum clearance above circulation aisles and parking spaces.

2.5m minimum clearance above disabled parking bays.

Height clearance above a sag change in grade should be measure in accordance with Figure 5.3 AS2890.1-2004.

NOTE: ALL DIMENSIONS SHOWN ARE THE RECOMMEND MINIMUM BY AS2890.1-2004, AND THE PLANS HAVE BEEN CHECKED ACCORDINGLY. ANY ALLOWABLE TOLERANCES TO THESE DIMENSIONS THAT MAY OCCUR DURING CONSTRUCTION SHOULD BE ADDED AT THE DESIGN STAGE

GENERAL COMPLIANCE FOR COMMERCIAL VEHICLES - AS2890.2-2018

Off-street commercial vehicle facilities should be designed for the largest expected vehicle using the facility.

RAMP GRADES:

Maximum grade of 1:20 for 6 metres prior to property boundary for vehicles upto 8.8m in length.

Maximum grade of 1:20 for 6.6 metres prior to property boundary for vehicles upto 12.5m in length.

Maximum grade of 1:20 for 9.1 metres prior to property boundary for upto 19.0m articulated vehicles

Maximum grade of 1:6.5.

Maximum change in grade of - 1:12 in 4.0m travel for vehicles upto 6.4m rigid in length.

Maximum change in grade of - 1:16 in 7.0m travel for vehicles upto 12.5m rigid in length.

Maximum change in grade of - 1:16 in 10.0m travel for vehicles upto 19.0m articulated in length.

Grades to be measured along shortest distance between two RLs.

i.e. on curved ramps grades to be measured along inside edge.

Maximum grade in vehicle manoeuvring area - 1:8

Maximum grade in service bay - 1:25

RAMP WIDTHS

Straight ramps - One way - minimum width 3.5m plus 0.3m clearance on both sides.

- Two way - minimum width 6.5m plus 0.3m clearance on both sides.

Curved ramps - to be checked with vehicle turning templates

Clearances of 0.3m inside and 0.5m outside to walls and vertical obstructions.

Intersections between ramps/roadways/aisles should be checked using largest design vehicle turning template.

LOADING BAYS

Minimum 3.5m wide (access to be checked using turning templates)

Minimum bay length - Length of vehicle plus any required loading/unloading area.

HEIGHT CLEARANCES

3.5m minimum for vehicles upto 6.4m in length.

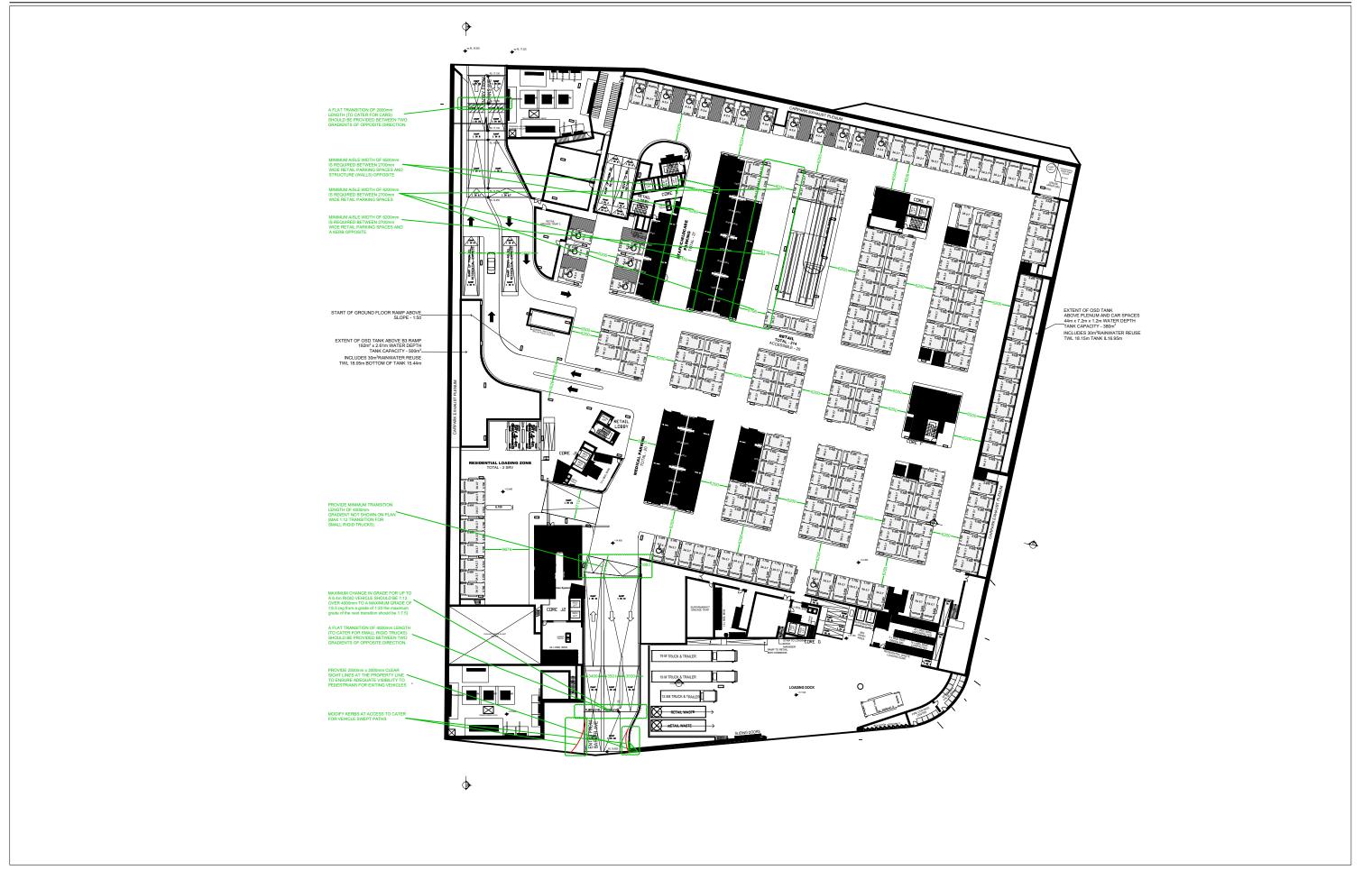
4.5m minimum for vehicles longer than 6.4m in length.

Height clearance above sag change in grade should be measured in accordance with Figure 5.2 AS2890.1-2004.

NOTE: ALL DIMENSIONS SHOWN ARE THE RECOMMEND MINIMUM BY AS2890.2-2002, AND THE PLANS HAVE BEEN CHECKED ACCORDINGLY. ANY ALLOWABLE TOLERANCES TO THESE DIMENSIONS THAT MAY OCCUR DURING CONSTRUCTION SHOULD BE ADDED AT THE DESIGN STAGE

BASE PLANS RECEIVED BY CBRK DATED: 30 September 2019 PLAN NUMBERS: 2000.B1 revision M00, dated 31/5/19 2000.B2 revision M00, dated 31/5/19 2000.B3 revision M00, dated 31/5/19

2000.B4 revision M00, dated 31/5/19



NOTE:

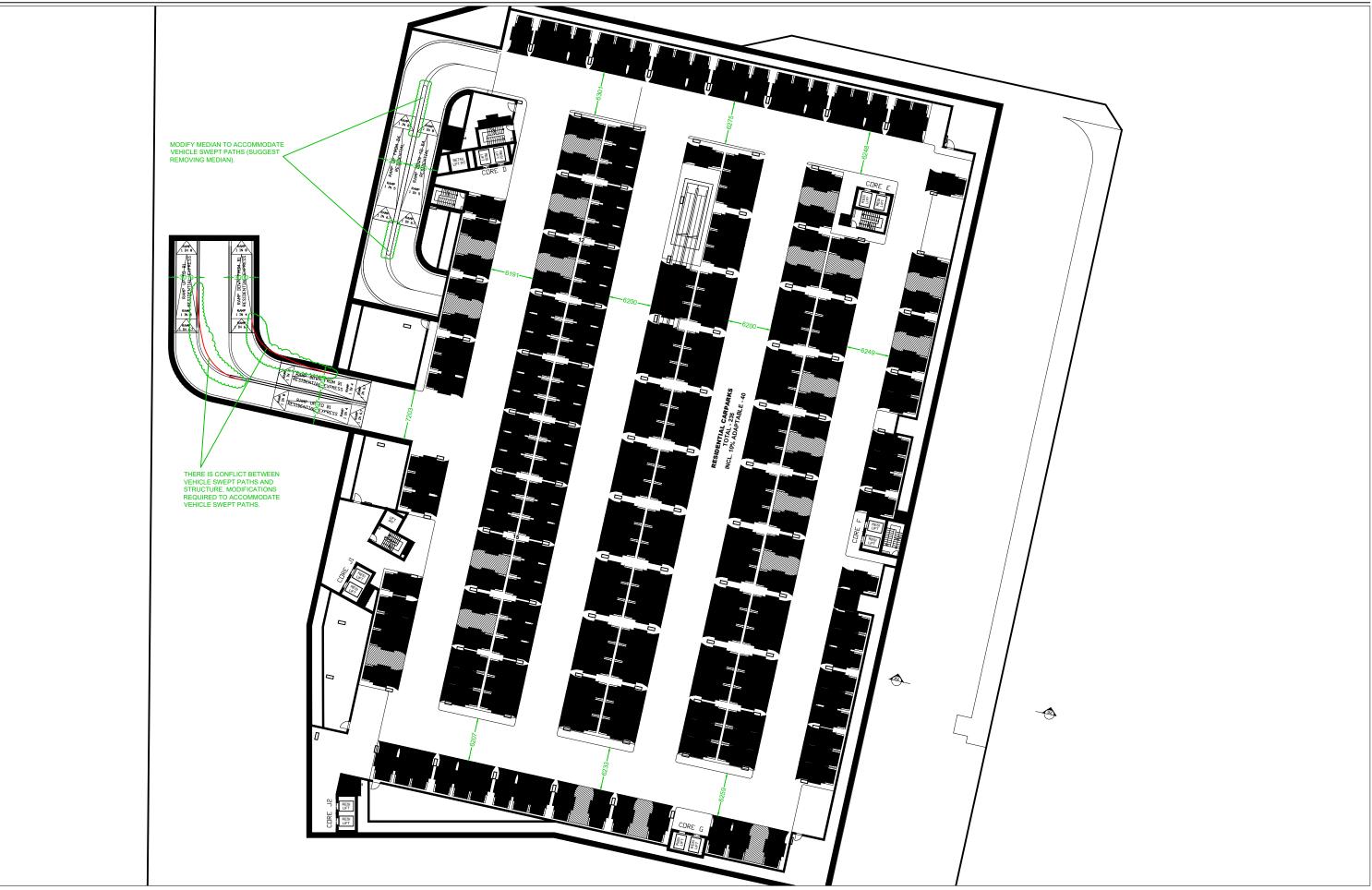
SKETCH PLAN ONLY. PROPERTY BOUNDARIES, UTILITIES, KERBLINES & DIMENSIONS ARE SUBJECT TO SURVEY AND FINAL DESIGN. TRAFFIC MEASURES PROPOSED IN THIS PLAN ARE CONCEPT ONLY AND ARE SUBJECT TO FINAL DESIGN BY CIVIL ENGINEERS.

Colston Budd Rogers & Kafes Pty Ltd 11212 - Eastlakes South



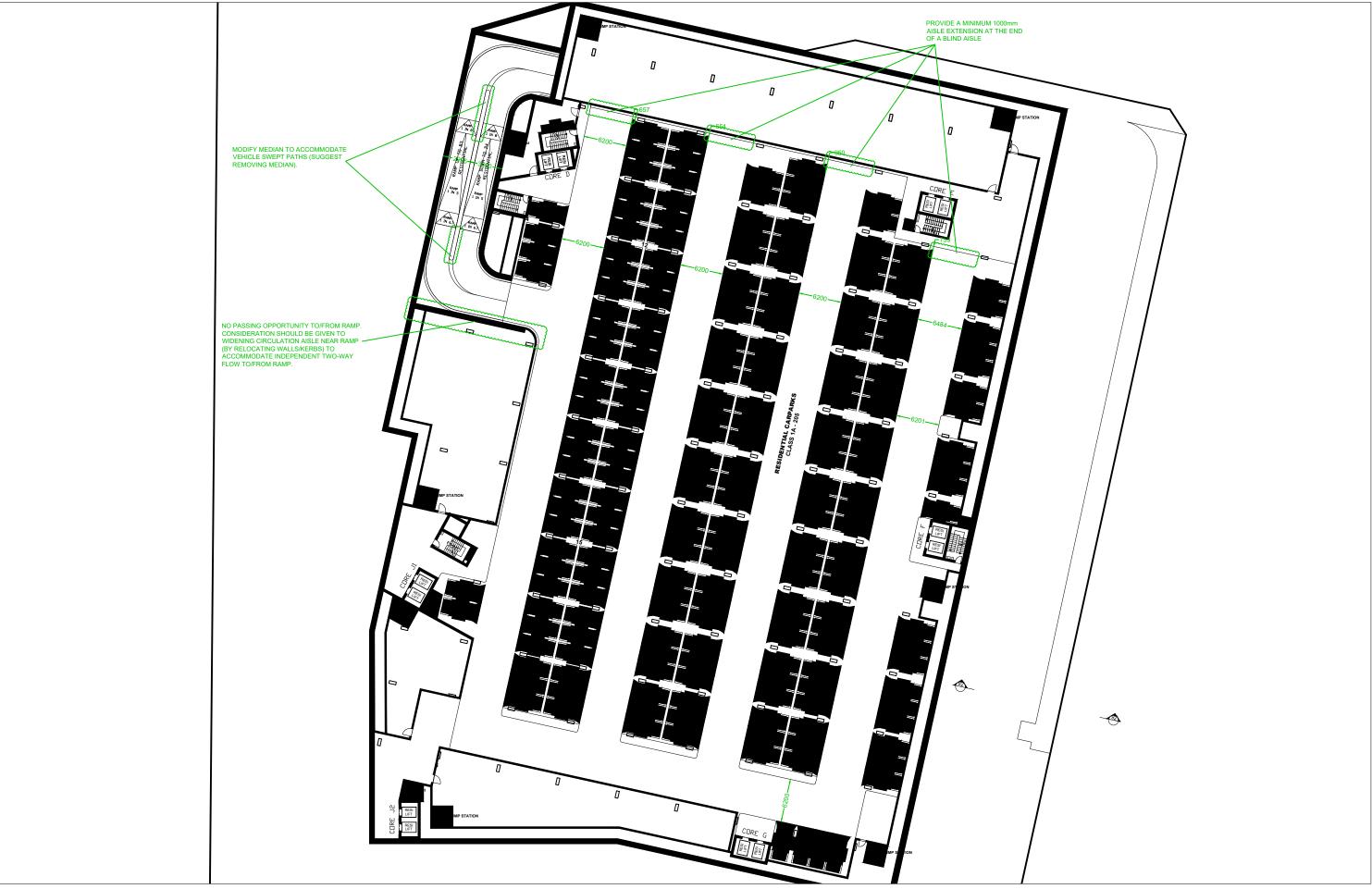
NOTE:

SKETCH PLAN ONLY. PROPERTY BOUNDARIES, UTILITIES, KERBLINES & DIMENSIONS ARE SUBJECT TO SURVEY AND FINAL DESIGN. TRAFFIC MEASURES PROPOSED IN THIS PLAN ARE CONCEPT ONLY AND ARE SUBJECT TO FINAL DESIGN BY CIVIL ENGINEERS.



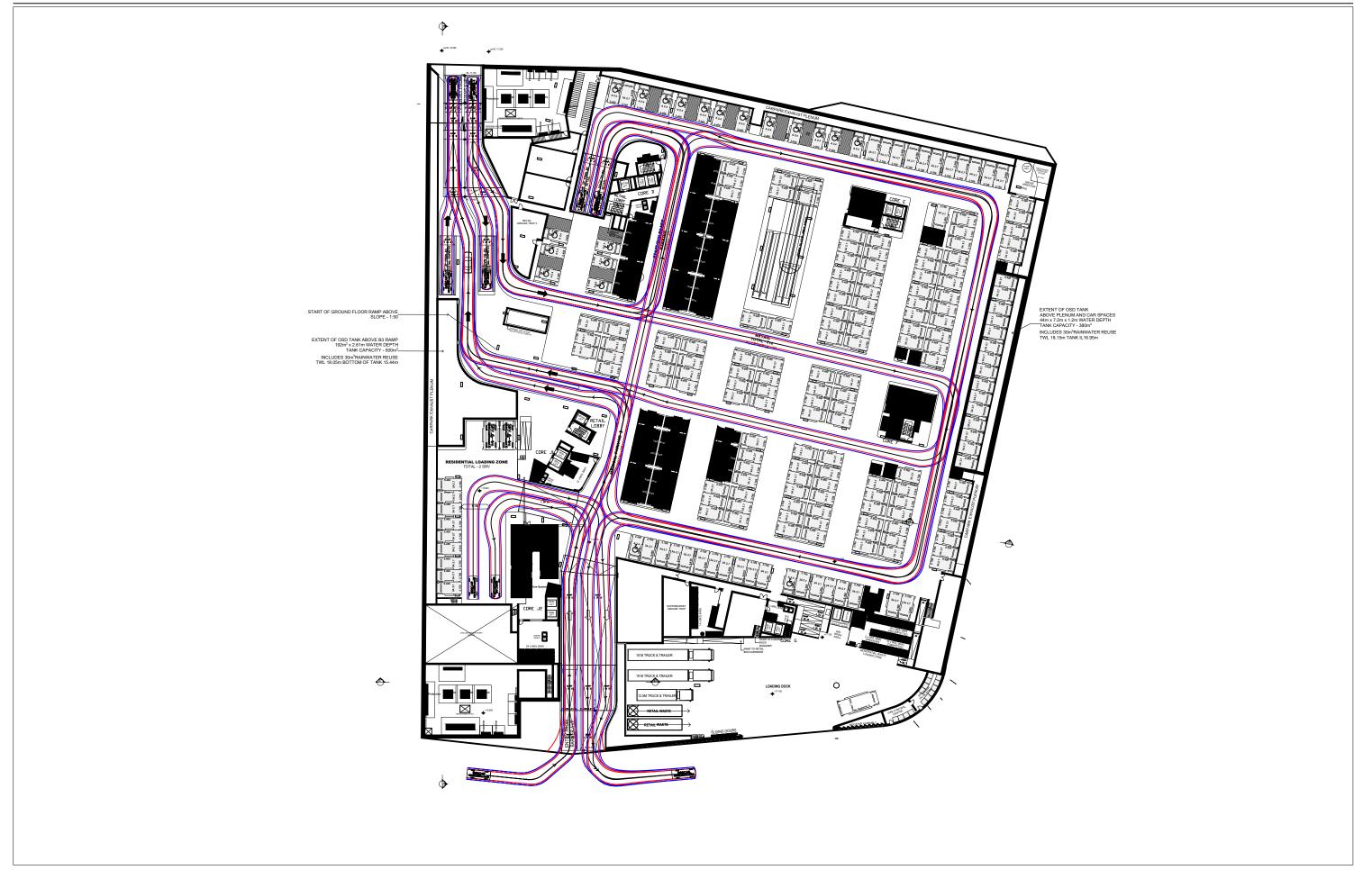
NOTE:

SKETCH PLAN ONLY. PROPERTY BOUNDARIES, UTILITIES, KERBLINES & DIMENSIONS ARE SUBJECT TO SURVEY AND FINAL DESIGN. TRAFFIC MEASURES PROPOSED IN THIS PLAN ARE CONCEPT ONLY AND ARE SUBJECT TO FINAL DESIGN BY CIVIL ENGINEERS.



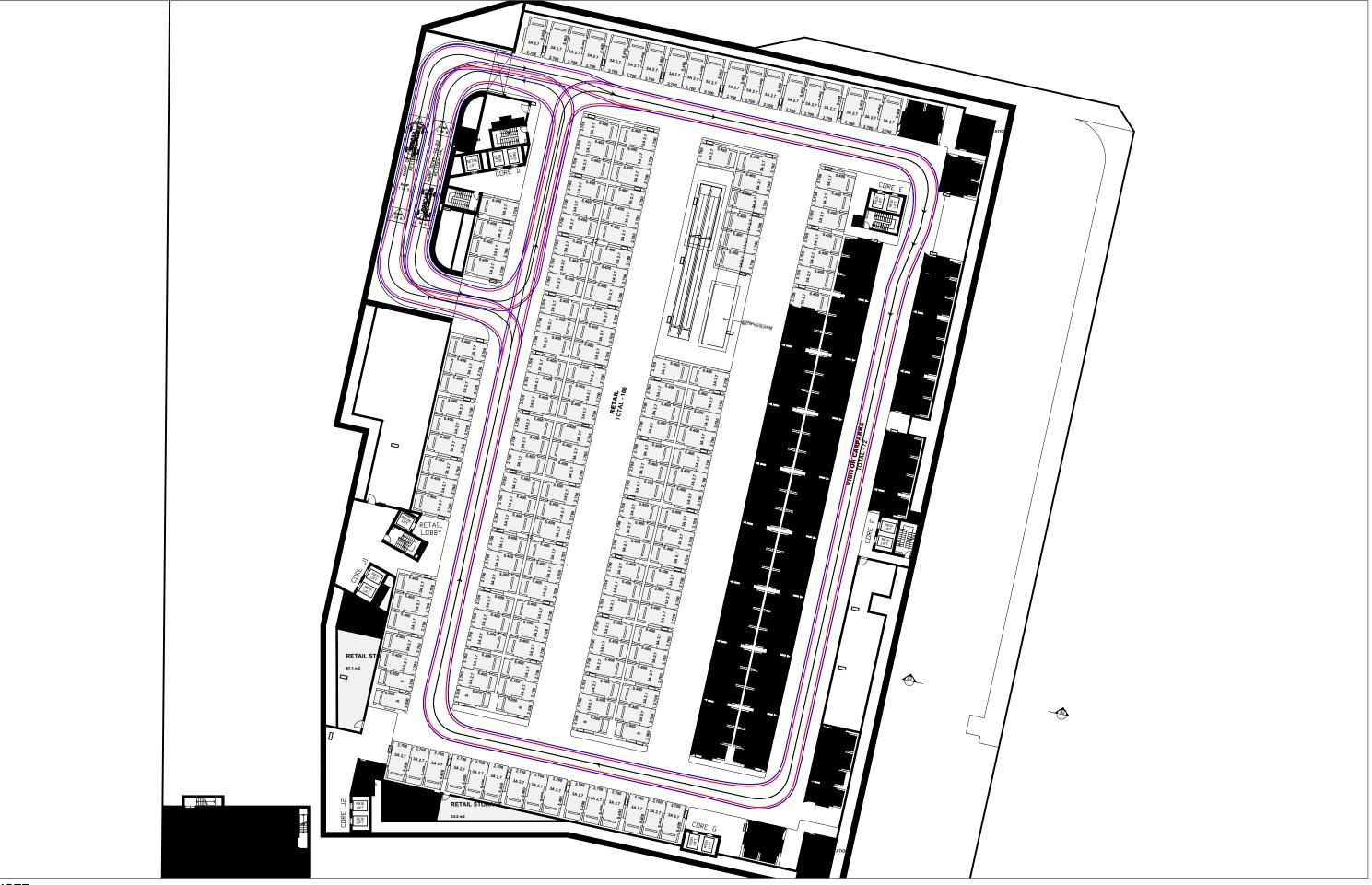
NOTE:

SKETCH PLAN ONLY. PROPERTY BOUNDARIES, UTILITIES, KERBLINES & DIMENSIONS ARE SUBJECT TO SURVEY AND FINAL DESIGN. TRAFFIC MEASURES PROPOSED IN THIS PLAN ARE CONCEPT ONLY AND ARE SUBJECT TO FINAL DESIGN BY CIVIL ENGINEERS.



NOTE:

SKETCH PLAN ONLY. PROPERTY BOUNDARIES, UTILITIES, KERBLINES & DIMENSIONS ARE SUBJECT TO SURVEY AND FINAL DESIGN. TRAFFIC MEASURES PROPOSED IN THIS PLAN ARE CONCEPT ONLY AND ARE SUBJECT TO FINAL DESIGN BY CIVIL ENGINEERS.

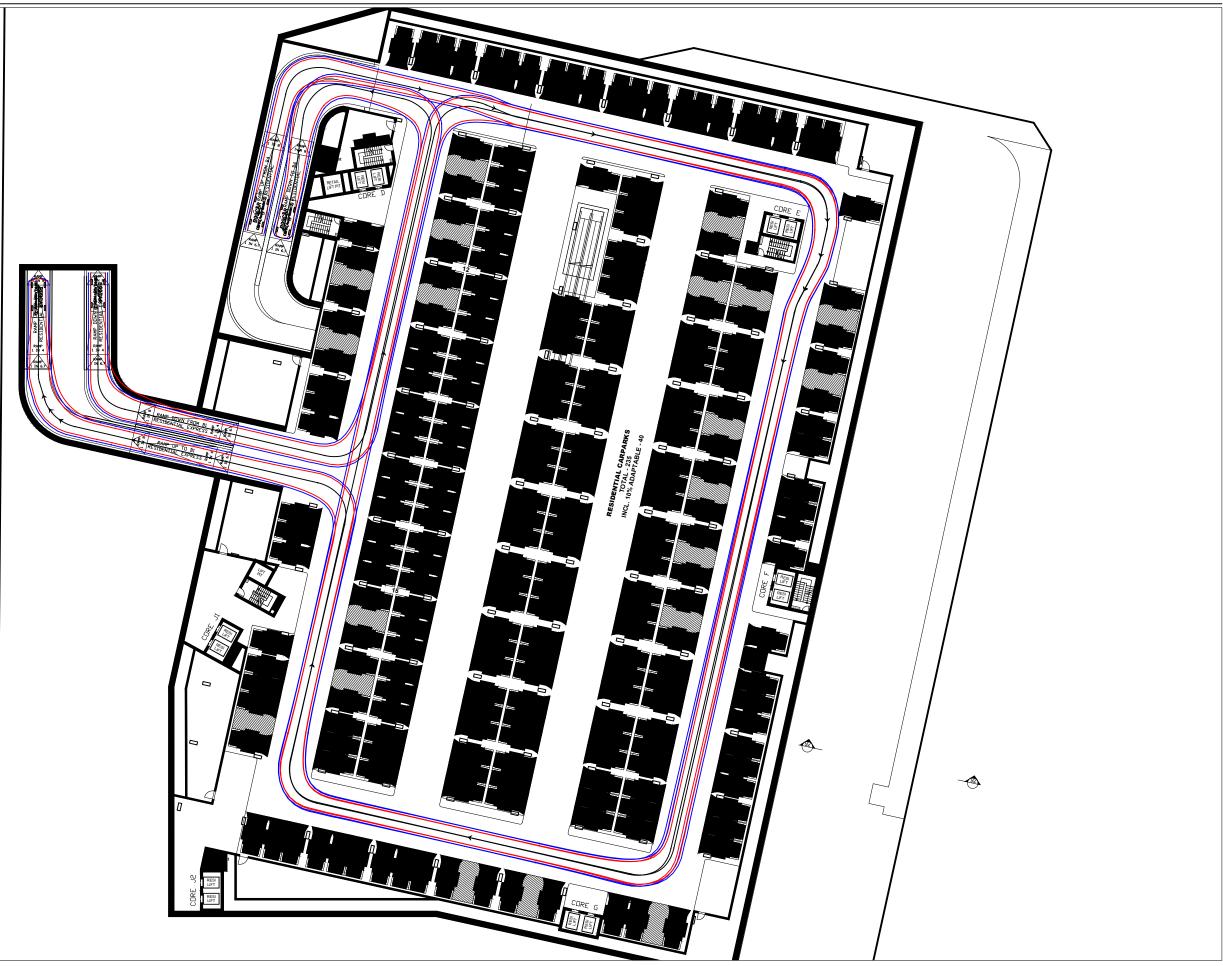


NOTE:

SKETCH PLAN ONLY. PROPERTY BOUNDARIES, UTILITIES, KERBLINES & DIMENSIONS ARE SUBJECT TO SURVEY AND FINAL DESIGN. TRAFFIC MEASURES PROPOSED IN THIS PLAN ARE CONCEPT ONLY AND ARE SUBJECT TO FINAL DESIGN BY CIVIL ENGINEERS.

Swept Path of Vehicle Body
Swept Path of Clearance to Vehicle Body

B99 VEHICLE SWEPT PATHS
- BASEMENT 2

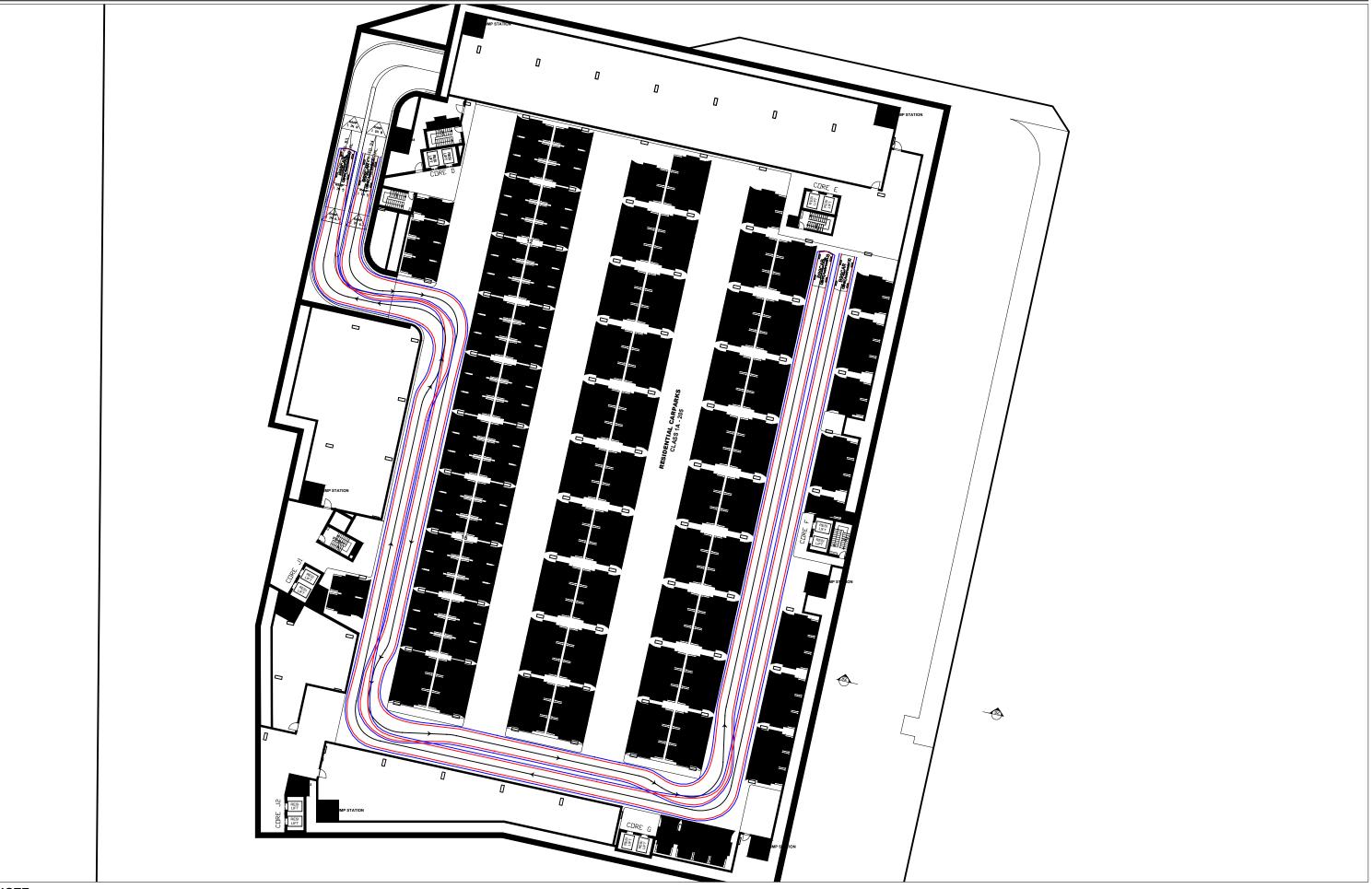


NOTE:

SKETCH PLAN ONLY. PROPERTY BOUNDARIES, UTILITIES, KERBLINES & DIMENSIONS ARE SUBJECT TO SURVEY AND FINAL DESIGN. TRAFFIC MEASURES PROPOSED IN THIS PLAN ARE CONCEPT ONLY AND ARE SUBJECT TO FINAL DESIGN BY CIVIL ENGINEERS.

Swept Path of Vehicle Body
Swept Path of Clearance to Vehicle Body

B99 VEHICLE SWEPT PATHS
- BASEMENT 3

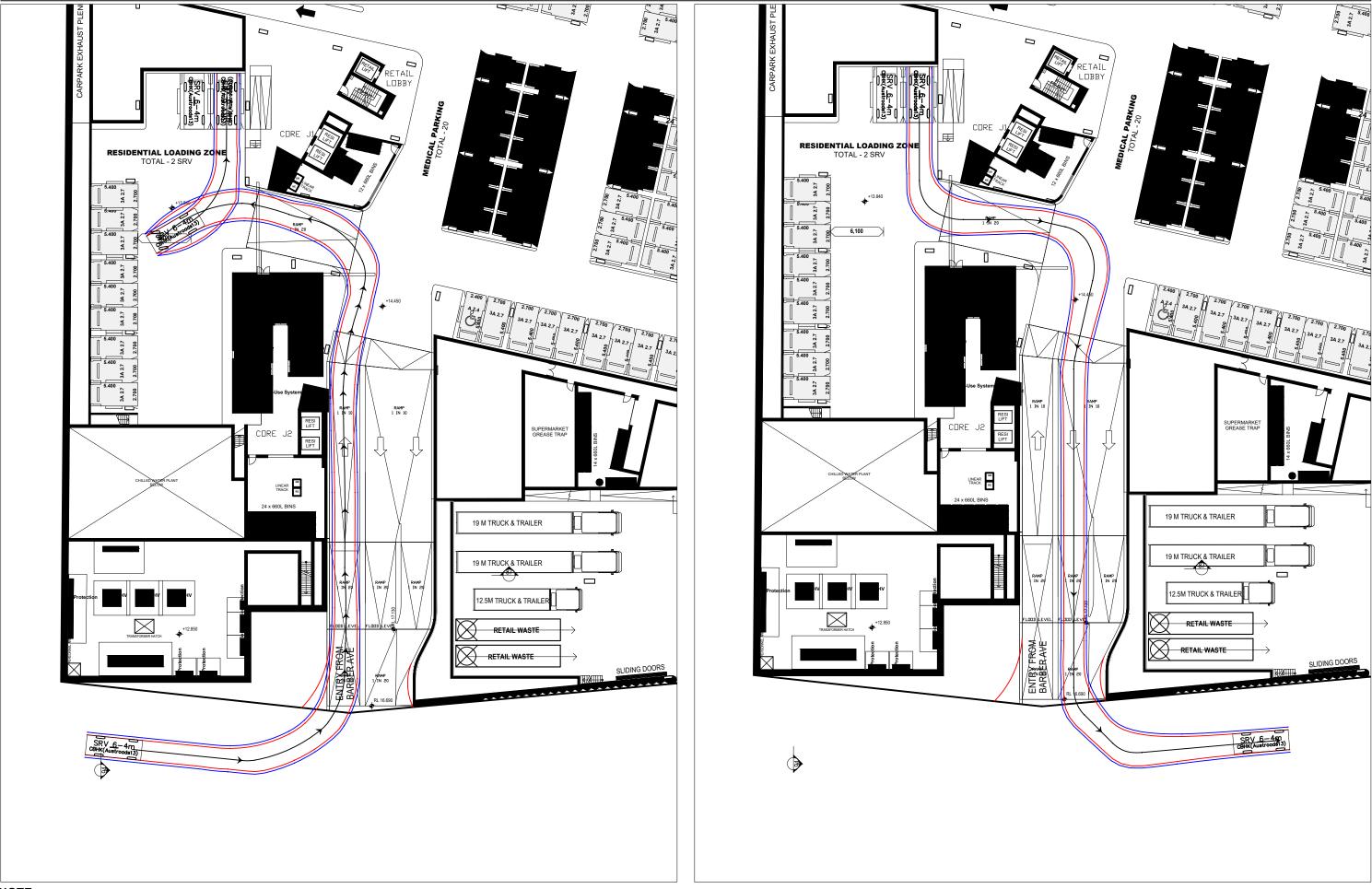


NOTE:

SKETCH PLAN ONLY. PROPERTY BOUNDARIES, UTILITIES, KERBLINES & DIMENSIONS ARE SUBJECT TO SURVEY AND FINAL DESIGN. TRAFFIC MEASURES PROPOSED IN THIS PLAN ARE CONCEPT ONLY AND ARE SUBJECT TO FINAL DESIGN BY CIVIL ENGINEERS.

Swept Path of Vehicle Body
Swept Path of Clearance to Vehicle Body

B99 VEHICLE SWEPT PATHS
- BASEMENT 4



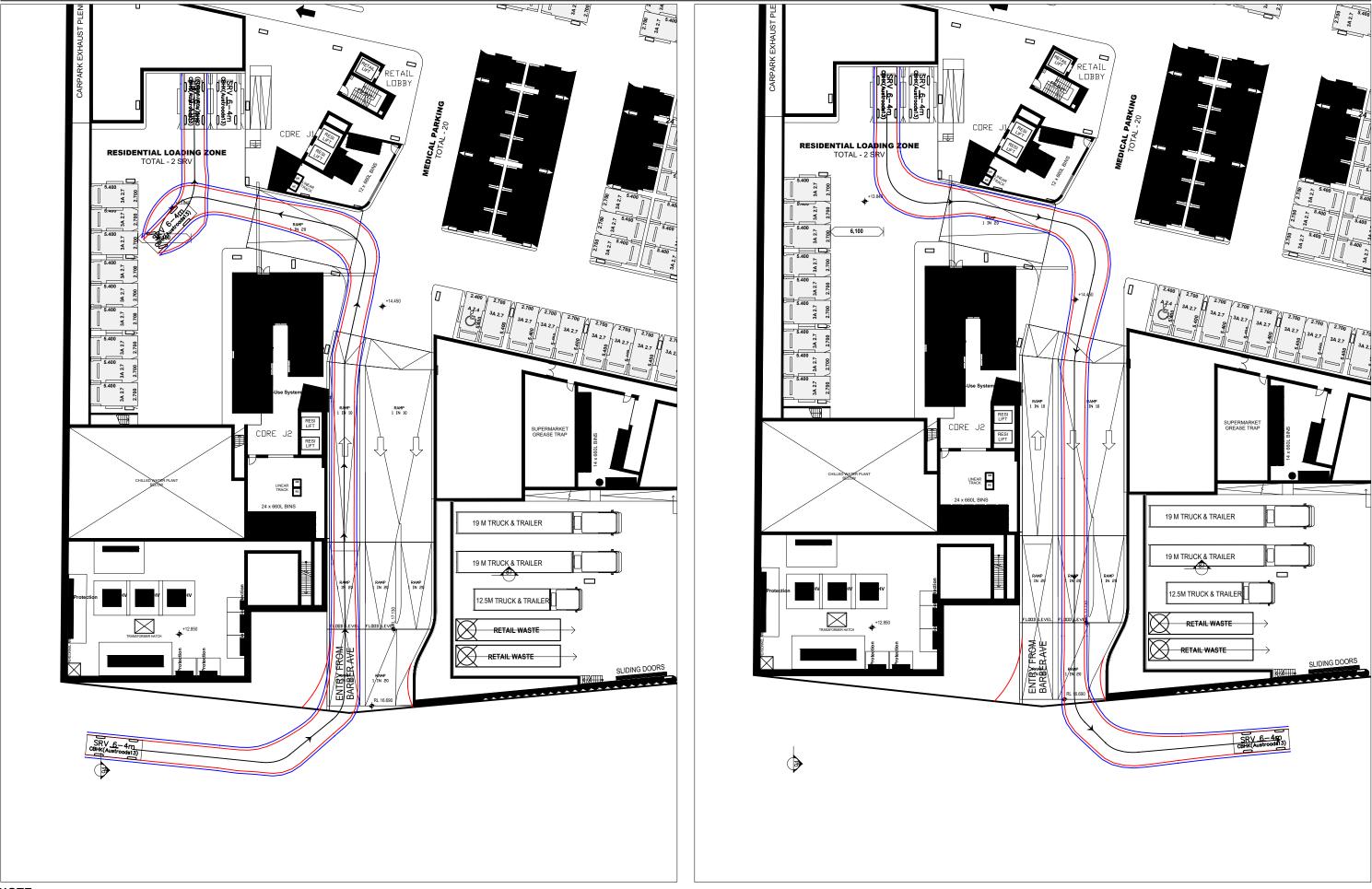
NOTE:

SKETCH PLAN ONLY. PROPERTY BOUNDARIES, UTILITIES, KERBLINES & DIMENSIONS ARE SUBJECT TO SURVEY AND FINAL DESIGN. TRAFFIC MEASURES PROPOSED IN THIS PLAN ARE CONCEPT ONLY AND ARE SUBJECT TO FINAL DESIGN BY CIVIL ENGINEERS.

Swept Path of Vehicle Body
Swept Path of Clearance to Vehicle Body

6.4m SMALL RIGID VEHICLE SWEPT PATHS

1 October 2019

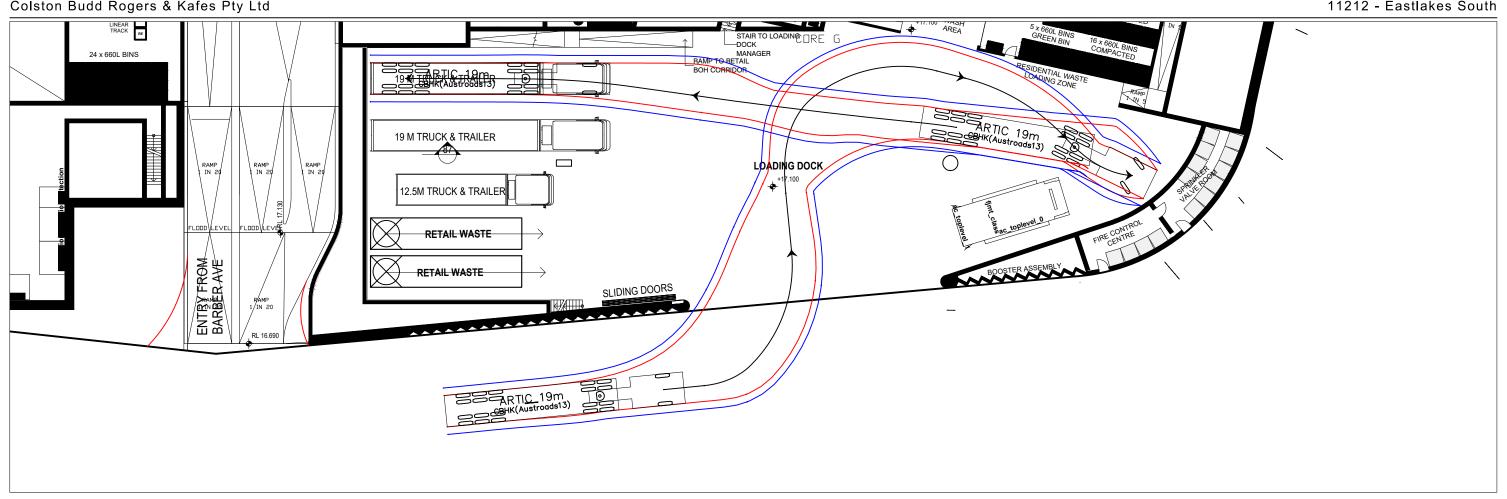


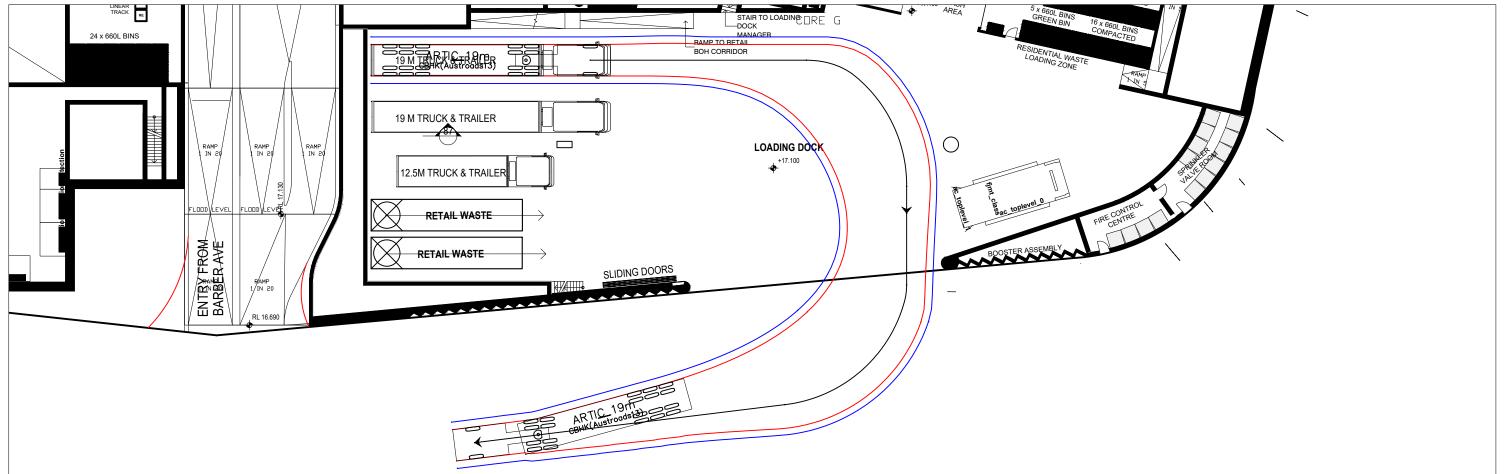
NOTE:

SKETCH PLAN ONLY. PROPERTY BOUNDARIES, UTILITIES, KERBLINES & DIMENSIONS ARE SUBJECT TO SURVEY AND FINAL DESIGN. TRAFFIC MEASURES PROPOSED IN THIS PLAN ARE CONCEPT ONLY AND ARE SUBJECT TO FINAL DESIGN BY CIVIL ENGINEERS.

Swept Path of Vehicle Body
Swept Path of Clearance to Vehicle Body

6.4m SMALL RIGID VEHICLE SWEPT PATHS Colston Budd Rogers & Kafes Pty Ltd 11212 - Eastlakes South





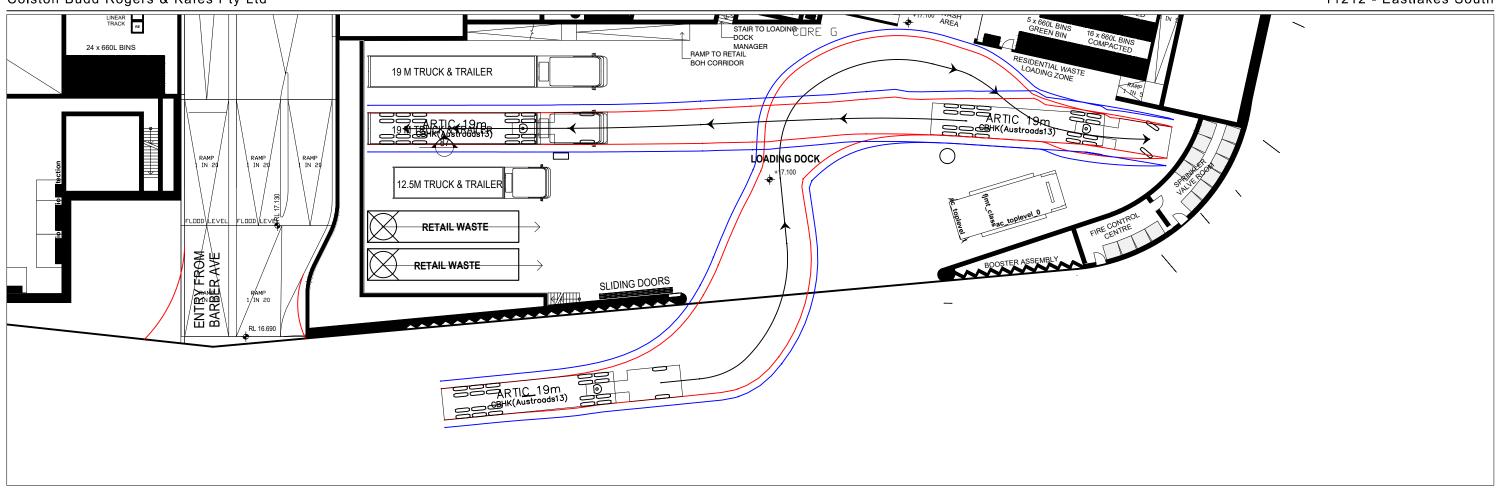
NOTE:

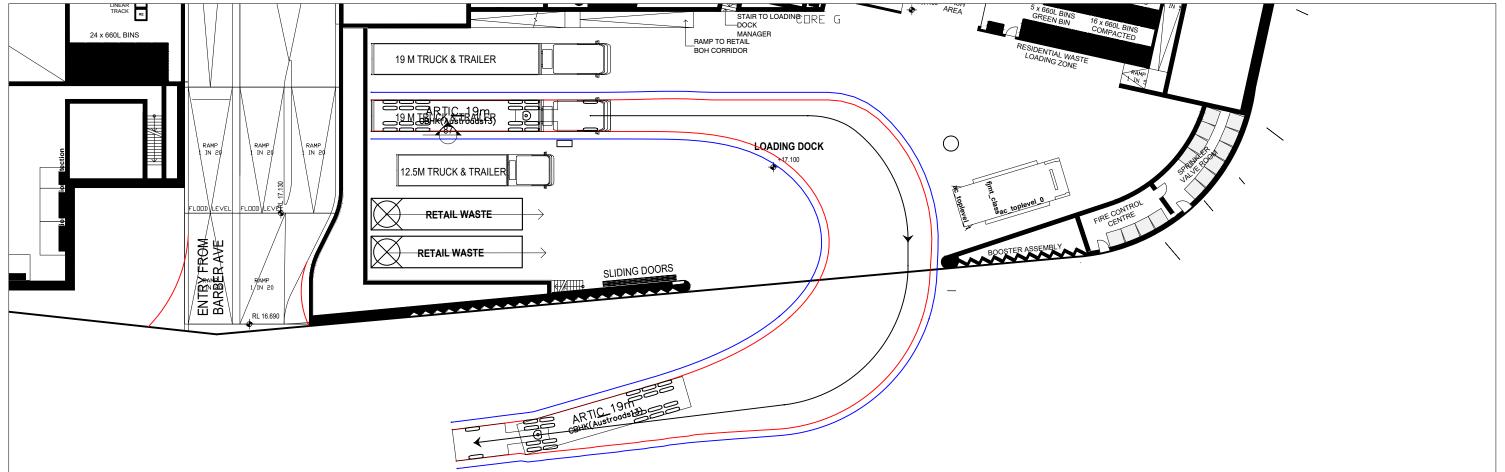
SKETCH PLAN ONLY. PROPERTY BOUNDARIES, UTILITIES, KERBLINES & DIMENSIONS ARE SUBJECT TO SURVEY AND FINAL DESIGN. TRAFFIC MEASURES PROPOSED IN THIS PLAN ARE CONCEPT ONLY AND ARE SUBJECT TO FINAL DESIGN BY CIVIL ENGINEERS.

Swept Path of Vehicle Body Swept Path of Clearance to Vehicle Body 19.0m ARTICULATED **VEHICLE SWEPT PATHS**

1 October 2019

Colston Budd Rogers & Kafes Pty Ltd 11212 - Eastlakes South





NOTE:

SKETCH PLAN ONLY. PROPERTY BOUNDARIES, UTILITIES, KERBLINES & DIMENSIONS ARE SUBJECT TO SURVEY AND FINAL DESIGN. TRAFFIC MEASURES PROPOSED IN THIS PLAN ARE CONCEPT ONLY AND ARE SUBJECT TO FINAL DESIGN BY CIVIL ENGINEERS.

Swept Path of Vehicle Body
Swept Path of Clearance to Vehicle Body

19.0m ARTICULATED VEHICLE SWEPT PATHS