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transport planning



BAM Construction

Rugby Free Secondary School & Quest Academy

Reserved Matters Transport Technical Note (Ref. RBC/I6CC016)

January 2018



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Rugby Free Secondary School & Quest Academy

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Reserved Matters Transport Technical Note (Ref. RBC/16CC016)

Rugby Free Secondary School & Quest Academy

Reserved Matters Transport Technical Note (Ref. RBC/16CC016)

Project No: J322862



transport planning

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1 Introduction

1.1 Overview

- 1.1.1 This report has been produced to demonstrate how the reserved matters submitted for this committed development are in general accordance with the approved design parameters and related conditions of the outline planning permission RBC/16CC016.

Outline planning permission with all matters reserved apart from access, to allow the development of a new secondary school, associated sports provision, new SEN school, demolition of the existing Rokeby Infant School and replacement playing fields on land adjacent to Rokeby Primary School, Anderson Avenue, Rugby.

- 1.1.2 The overall site layout is shown in the masterplan attached at **Appendix A**.

1.2 Conditions

- 1.2.1 The specific conditions that will be reviewed as part of this work include;

- Condition 10;
- Condition 36;
- Condition 37;
- Condition 38;
- Condition 39;
- Condition 40;
- Condition 41;
- Condition 42;
- Condition 43; and
- Condition 44.

- 1.2.2 The individual conditions will be addressed in the proceeding Chapters.



2 Condition 10

2.1 Summary of Condition 10

2.1.1 A summary of the condition is provided below:

Car parking and cycle storage provision shall be made within the site as an integral part of the Reserved Matter submission(s). This provision shall as a minimum be in accordance with the on-site car parking standards adopted by Rugby Borough Council for low accessibility areas and shall include provision for the charging of electric vehicles. The entire approved provision shall be made available for use on the site before the schools which they are intended to serve are first occupied.

Reason:- In order to ensure that there is sufficient on site car parking to minimise on street car parking by staff, visitors and sixth formers and to ensure that provision is made to encourage sustainable transport options.

2.2 Response

2.2.1 The Rugby Borough Council (RBC) SPD on Developer Obligations (March 2012) includes parking standards for primary and secondary schools. These are subdivided into low and high accessibility areas and in this instance the planning condition related to parking refers to the application of the standards for low accessibility areas, namely two spaces per classroom area (based on the average that there are two members of staff per classroom). It is also noted that this standard includes for an allowance for visitor parking.

2.2.2 The accommodation schedules for both schools show a total of 72 classrooms for the Rugby Free Secondary School and 14 classrooms for the Quest Academy SEN school. If the standards are applied this results in a requirement for 144 spaces for the Rugby Free Secondary School and 28 spaces for the Quest Academy SEN. When considered relative to the proposed staff numbers (100 for the secondary and 55 for the SEN) a logic check is considered warranted.

2.2.3 The latest site masterplan shows the following number of spaces:

Rugby Free Secondary School

- 140 total spaces inclusive of:
- 8 disabled bays; and



- 3 minibus bays

Quest Academy (SEN)

- 65 total spaces inclusive of:
- 5 disabled bays; and
- 3 minibus spaces

2.2.4 The following paragraphs provide the justification behind the parking numbers shown with each school considered in turn.

Rugby Free Secondary School

2.2.5 Based on the policy guidance, the scheme would require the following parking numbers:

- Staff/Visitor – RBC Guidance – 1 space per staff member – 100 spaces;
- Students – PPG13 – 1 space per 15 students – 28 spaces (assuming 420 pupils in years 12/13);
- Disabled – RBC Guidance – 5 spaces for up to 100 parking spaces & 3 spaces per every additional 100 spaces – 8 spaces (based on calculated numbers);
- Cycle – Based upon 2011 school census data for nearby Ashlawn School – 1 space per 10 staff or students – 157 spaces (147 student, 10 staff); and,
- Moped/Motorcycle – RBC Guidance – 1 space per 25 car parking spaces – 6 spaces.

2.2.6 The above results in a requirement for 136 car parking spaces, the plans show 137 parking spaces (excluding the 3 minibus spaces) and are therefore broadly consistent with the calculated numbers. **Drawing J32-2862-PS-017 Rev C** includes a mark-up of the allocation of car park spaces across the site. This includes:

- 8 disabled;
- 25 visitor/parent drop off;
- 86 staff;
- 18 students;
- 3 minibus;
- 158 cycle spaces; and
- 6 motorcycle spaces.



- 2.2.7 As a further logic check the 2011 census data for JTW for Rugby indicates that 72% trips are made by car. When applying this to the staff parking allowance calculated above (100 spaces) an allowance of circa 28 spaces is therefore available for potential visitor use which is again consistent with the parking shown on the **Drawing J32-2862-PS-017 Rev C**. There will be a shared use nature to the parent drop off and visitor spaces as these can be co-used by the respective users as the timings of the users do not clash.
- 2.2.8 **Drawing J32-2862-PS-002 Rev E** illustrates that up to 6 large coaches (15 metres in length) can park/stack within the car park without impacting the free flow of traffic and circulation of flows within the car park.
- 2.2.9 A number of tracking assessments have been undertaken on the site layout to ensure that the service, operational, coaches and staff vehicles can all access and egress the site without conflict. These are shown on the following drawings:
- **Drawing J32-2862-PS-001 Rev E**
 - **Drawing J32-2862-PS-002 Rev E**
 - **Drawing J32-2862-PS-003 Rev D**
 - **Drawing J32-2862-PS-004 Rev D**
- Quest Academy (SEN)**
- 2.2.10 The Quest Academy access and overall site layout is shown in **Drawing J32-2862-PS-012 Rev H**. There Based on the policy guidance, the scheme would require the following parking numbers:
- Staff/Visitor – RBC Guidance – 1 space per staff member – 55 spaces;
 - Students – unlikely that students will drive to SEN therefore discounted;
 - Disabled – RBC Guidance – 5 spaces for up to 100 parking spaces & 3 spaces per every additional 100 spaces – 5 spaces (based on calculated numbers);
 - Cycle – Based upon 2011 school census data for nearby Ashlawn School – 1 space per 10 staff or students – 5 spaces (assuming typically staff use only) and,
 - Moped/Motorcycle – RBC Guidance – 1 space per 25 car parking spaces – 2 spaces.
- 2.2.11 The above results in a requirement for 60 car parking spaces, the plans show 62 car parking spaces (excluding the minibus spaces) and are broadly consistent with the calculated numbers.



- 2.2.12 **Drawing J32-2862-PS-018 Rev D** includes a mark-up of the allocation of car park spaces across the site. This includes:
- 5 disabled;
 - 16 visitor/parent drop off;
 - 41 staff;
 - 3 minibus; and
 - 10 cycles spaces.
- 2.2.13 As a further logic check the 2011 census data for JTW for Rugby indicates that 72% trips are made by car. When applying this to the 57 parking spaces shown on the plans (excluding the additional 5 disabled spaces from calculations) a generous allowance of 16 spaces is potentially available for potential visitor use. These spaces could also be used by those pick up or dropping off pupils subject to a management plan.
- 2.2.14 The pick-up and drop-off arrangements have also been considered as part of this assessment. In this instance, a review of the 2011 school census data for Brook SEN School has been undertaken that concluded that 98% pupils travel by car/taxi/bus. This equates to 77 pupils at the Quest Academy that will be forecast to travel by similar means.
- 2.2.15 **Drawing J32-2862-PS-013 Rev H** illustrates either large cars or minibuses queuing on the Quest Academy site when transporting pupils and demonstrates that 23 cars or 18 minibuses can be accommodated without clearing the site boundary. It should also be noted that there are 16 potential visitor spaces (as calculated above) that can also be used for pick-up/drop-off as well as the disabled parking spaces. In total there are potentially up to 39 spaces on site for cars to park/wait covering the start and end of the school day.
- 2.2.16 It is acknowledged that the queue of vehicles does block parts of the car park from use; however, based on previous experience with SEN schools in the past, typically staff will have all arrived on site before the pupils arrive and will not depart until they leave again so there should be no issue with conflict between user groups subject to the allocation of spaces to specific user groups and a management plan being implemented.
- 2.2.17 In the unlikely situation that each pupil (77) arrives and departs by themselves in a car or taxi we are able to accommodate up to 50% of potential demand on site, assuming visitor bays and disabled bays also accommodate some of the turnover. It should be noted that not all pupils will arrive and depart at once with the profile likely to be staggered.



- 2.2.18 At the opposite end of the scale if all pupils were to use a minibus and assuming 6 occupants per bus, this only requires 12 vehicles. There is currently a bus and minibus service already operating in Rugby which already serves Brook SEN school and it is envisaged that at least some demand will be catered for by a similar service which could reduce the potential number of vehicles associated with pick up/drop off as considered in the worst case.
- 2.2.19 Designated motorcycle spaces have not been specifically provided within the Quest car park as members of staff that use this mode will do so instead of a car and can use a car parking space. Due to the nature of the SEN requirements of the students, they will not be able to travel to school via a motorcycle/moped. Therefore additional specific spaces are not considered necessary and the proposed layout can accommodate the need.
- 2.2.20 A formal car parking management plan will be prepared in consultation with Warwickshire County Council (WCC) Highways and completed at a later date prior to occupation.

Electric Parking

- 2.2.21 In the absence of guidance or policy from WCC with respect to electric parking spaces, a single trickle charging column for both the SEN school and secondary school will be provided. This will provide a total charging capacity of 4 vehicles. Further to this, the required ducting to allow a further 2 columns to be added at a later date if the monitoring process shows that the demand is there will be provided.
- 2.2.22 Based on the nature of the SEN requirements of the students and potential concerns on vandalism, the charging columns will be provided within the secondary school car park. The use of these can be monitored through the car parking management plan/School Travel Plan and users can be identified by the respective schools and a system can be put in place.
- 2.2.23 With this in mind, there is a section of 8 bays in the secondary school site which are located close to the building. This provides a bank of 8 spaces which can be easily identifiable for users if required they need it. The spaces are shown on **Drawing J32-2862-PS-017 Rev C** and marked with an 'E' for the 4 charging spaces provided upfront (2 charging columns) and the future 4 spaces marked with a 'Fe' for use later in time if required.



3 Condition 36

3.1 Summary of Condition 36

3.1.1 A summary of the condition is provided below:

The development shall not be occupied until the access road, access junction and proposed pedestrian facilities have been provided in general accordance with drawing number T16514 007 Rev B.

Reason:- In the interest of highway safety.

3.2 Response

- 3.2.1 The proposed access road, access junction and proposed pedestrian facilities are shown on the masterplan which is attached at **Appendix A**. These have been provided in general accordance with drawing number **T16514 007 Rev B** (which was submitted as part of the original application) and is attached at **Appendix B** for completeness.
- 3.2.2 The proposed site layout and access is also shown in **Drawing J32-2862-PS-012 Rev H**.
- 3.2.3 Further to the outline application, the proposed turning head that will be provided at the limit of adoption of the site access road has been shown in **Drawing J32-2862-PS-015 Rev D**.



4 Condition 37

4.1 Summary of Condition 37

4.1.1 A summary of the condition is provided below:

The development shall not be occupied until the public highways D3420 Anderson Avenue, D3421 Long Furlong, D3422 Charlesfield Road and D3423 Rosewood Avenue have been improved so as to provide for traffic calming in general accordance with drawing number T16514 007 Rev B.

Reason:- In the interest of highway safety.

4.2 Response

4.2.1 This Condition is being addressed separately.



5 Condition 38

5.1 Summary of Condition 38

5.1.1 A summary of the condition is provided below:

The development shall not be occupied until a Hedgerow Management Plan containing measures to prevent significant incursion into the highway of the existing boundary hedge for 71 Long Furlong has been submitted to and approved in writing by the County Planning Authority. The Plan (or any variation) so approved shall be implemented at all times while the site is operational.

Reason:- In the interest of highway safety.

5.2 Response

5.2.1 This Condition is being addressed separately.



6 Condition 39

6.1 Summary of Condition 39

6.1.1 A summary of the condition is provided below:

The development shall not be occupied until the public highways A426 Dunchurch Road and D3416 Kingsway have been improved so as to provide for a signalised junction in general accordance with drawing number T16514 008 Rev A and associated Road Safety Audit.

Reason:- In the interest of highway safety.

6.2 Response

6.2.1 This Condition is being addressed separately.



7 Condition 40

7.1 Summary of Condition 40

7.1.1 A summary of the condition is provided below:

The development shall not be occupied until the public highway A426 Dunchurch Road has been improved so as to provide for a new Toucan signalised crossing in the vicinity of D3469 Overslade Lane in accordance with a scheme approved in writing by the County Planning Authority.

Reason:- In the interest of highway safety.

7.2 Response

7.2.1 This Condition is being addressed separately.



8 Condition 41

8.1 Summary of Condition 41

8.1.1 A summary of the condition is provided below:

The development shall not be occupied until the public highway A426 Dunchurch Road has been improved so as to provide for a new signalised pedestrian crossing in the vicinity of D3740 Shakespeare Gardens in accordance with a scheme approved in writing by the County Planning Authority.

Reason:- In the interest of highway safety.

8.2 Response

8.2.1 This Condition is being addressed separately.



9 Condition 42

9.1 Summary of Condition 42

9.1.1 A summary of the condition is provided below:

The development shall not be occupied until the public highway D3421 Long Furlong has been improved so as to provide for a new uncontrolled pedestrian crossing in the vicinity of the public right of way RB30 in accordance with a scheme approved in writing by the County Planning Authority.

Reason:- In the interest of highway safety.

9.2 Response

9.2.1 This Condition is being addressed separately.



10 Condition 43

10.1 Summary of Condition 43

10.1.1 A summary of the condition is provided below:

Each school hereby permitted shall not be occupied until a School Travel Plan to promote sustainable transport choices to the school has been submitted to and approved in writing by the County Planning Authority. The Plan (or any variation) so approved shall continue to be implemented in full at all time. The Plan shall

a) specify targets for the proportion of pupils and employees travelling to and from the site by foot, cycle, public transport, shared vehicles and other modes of transport which reduce emissions and the use of non-renewable fuels;

b) specify policies relating to the provision and monitoring of patronage of school bus services in order to support a) above.

c) set out measures designed to achieve those targets together with timescales and arrangements for their monitoring, review and continuous improvement;

d) explain and justify the targets and measures by reference to the Sustainable Travel Technical Note;

e) identify a senior manager of each school with overall responsibility for the Plan and a scheme for involving employees, pupils and parents of the schools in its implementation and development.

Reason:- In the interest of highway safety.

10.2 Response

10.2.1 A School Travel Plan will be produced for both the Rugby Free Secondary School and the Quest Academy based on the requirements detailed above. The School Travel Plan for each school will be prepared in consultation with WCC Highways and completed at a later date prior to occupation.



11 Condition 44

11.1 Summary of Condition 44

11.1.1 A summary of the condition is provided below:

The reserved matters required by condition 1 of this permission relating to access shall be accompanied by a pedestrian and cyclist audit and access to and within the site shall incorporate any features recommended by that audit and required by the County Planning Authority.











Reason:- In the interest of highway safety.

11.2 Response

11.2.1 This Condition is being addressed separately.

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- Taxi/Minibus drop off
- Disabled (8)
- Visitor/Parent drop off (25)
- Staff (86)
- School Minibus Fleet (3)
- Cycles (158)
- Motorcycles (6)
- Students (18)
- Electric Charging Points (4)
- Spaces allocated for future demand (4)

-  Taxi/Minibus drop off
-  Disabled (8)
-  Visitor/Parent drop off (25)
-  Staff (86)
-  School Minibus Fleet (3)
-  Cycles (158)
-  Motorcycles (6)
-  Students (18)
-  Electric Charging Points (4)
-  Spaces allocated for future demand (4)

drawing title

Rugby Free Secondary School -
Parking Management Scheme

drawing title

Rugby Free Secondary School -
Parking Management Scheme

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| client | BAM Construction Ltd |
| job title | Rugby Free Secondary School & Quest Academy |

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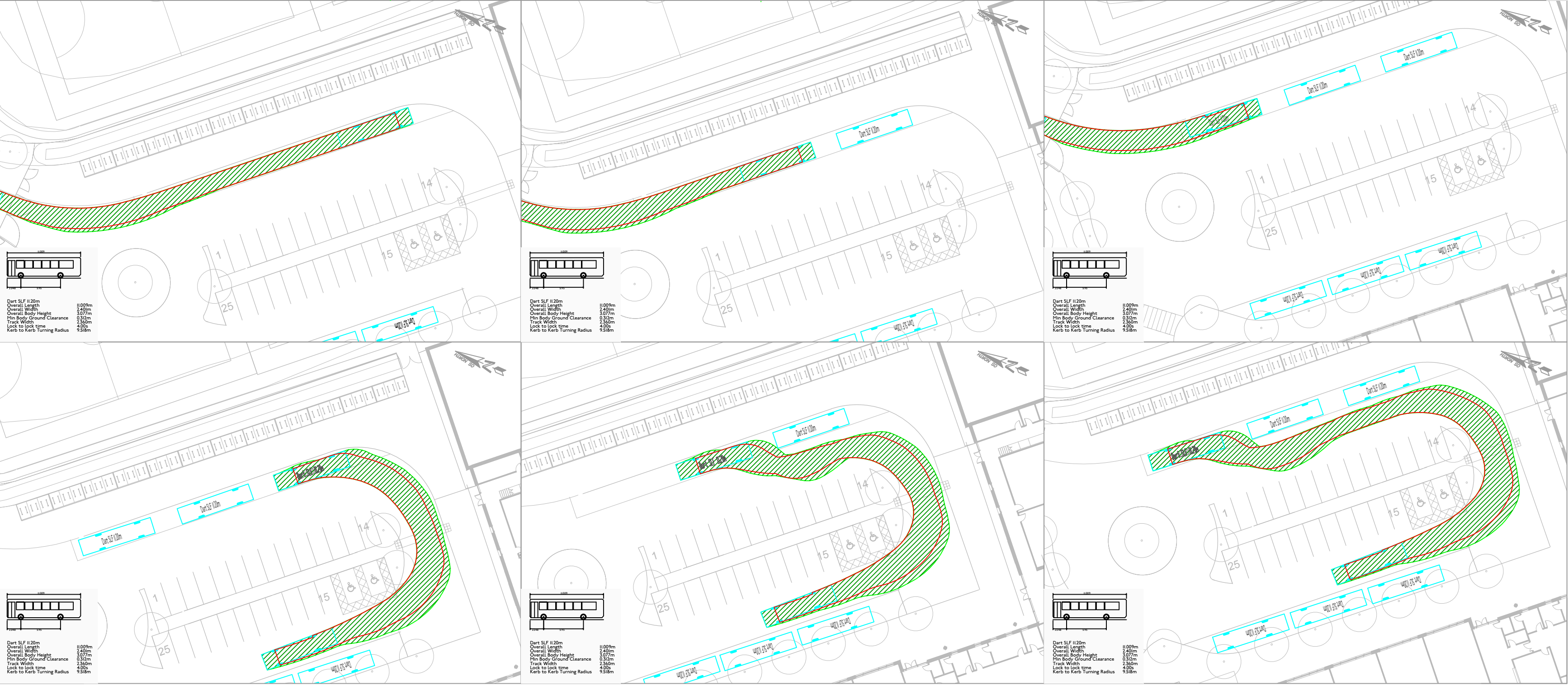
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| rev | date | remarks |

client

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job title

Rugby Free Secondary School
& Quest Academy

drawing title

Rugby Free Secondary School - Swept
Path Analysis - Bus and Coach

drawing no.

J32-2862-PS-002

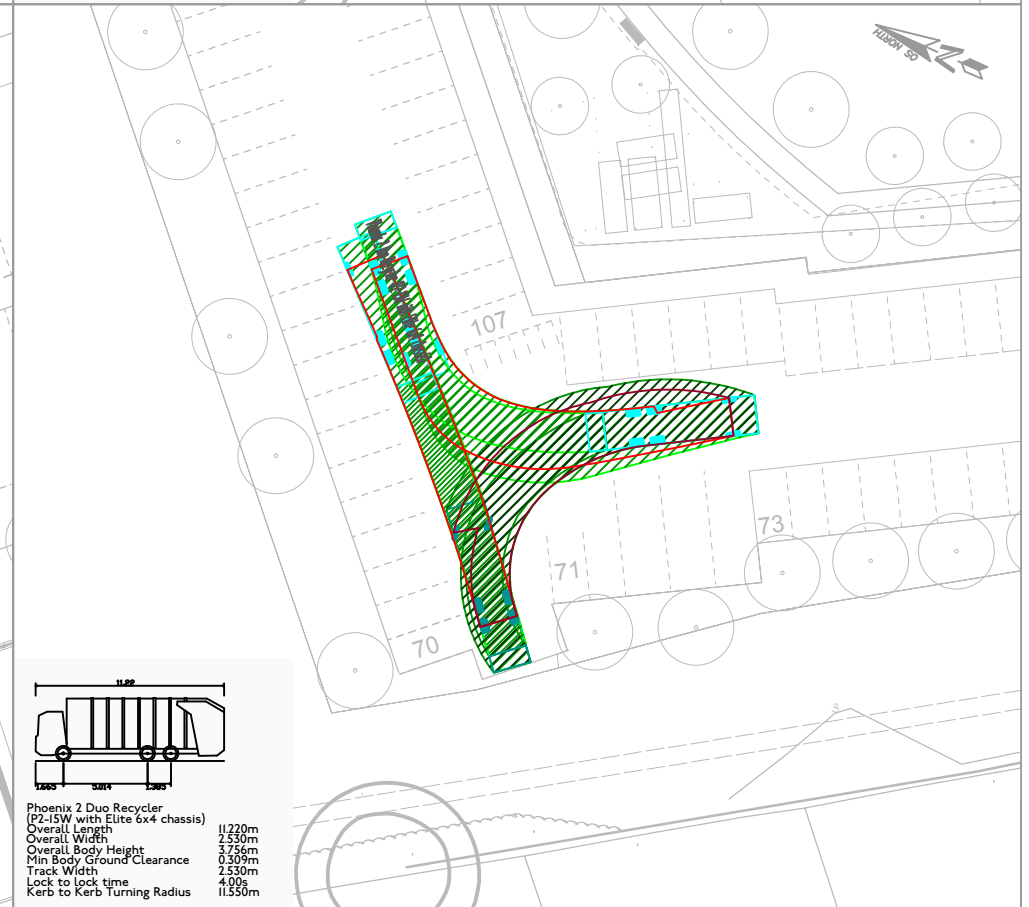
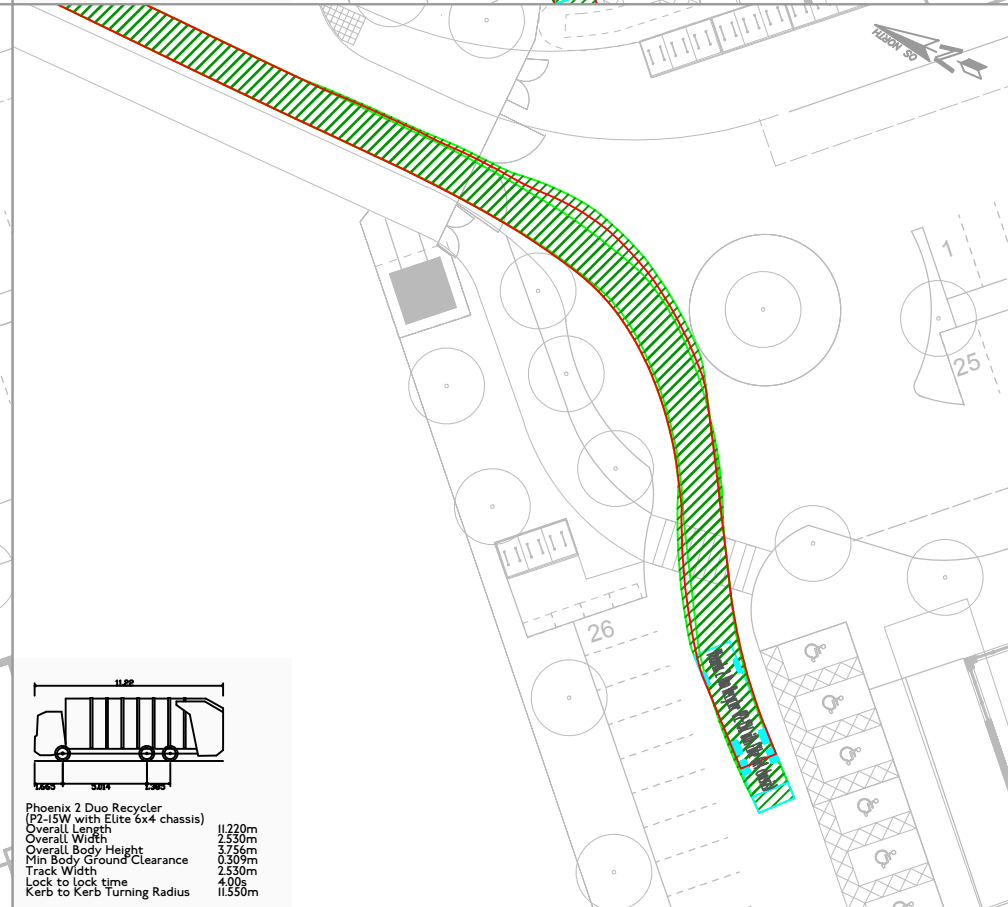
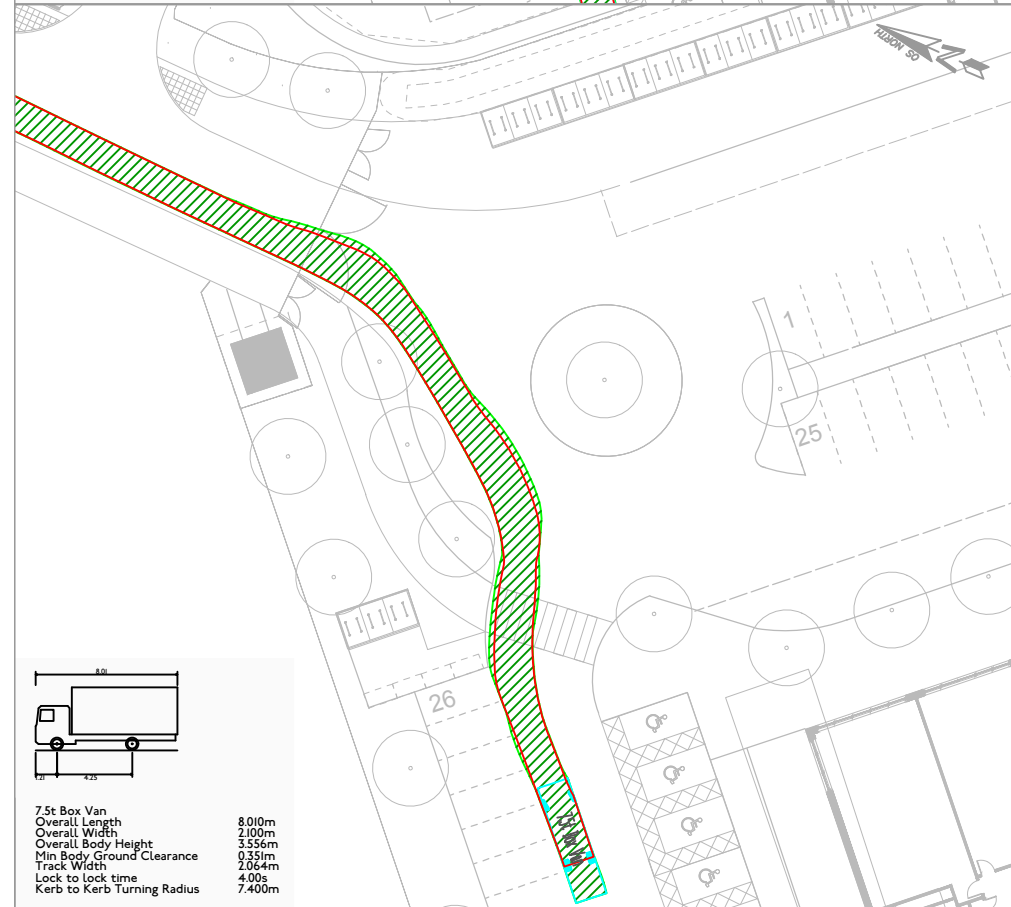
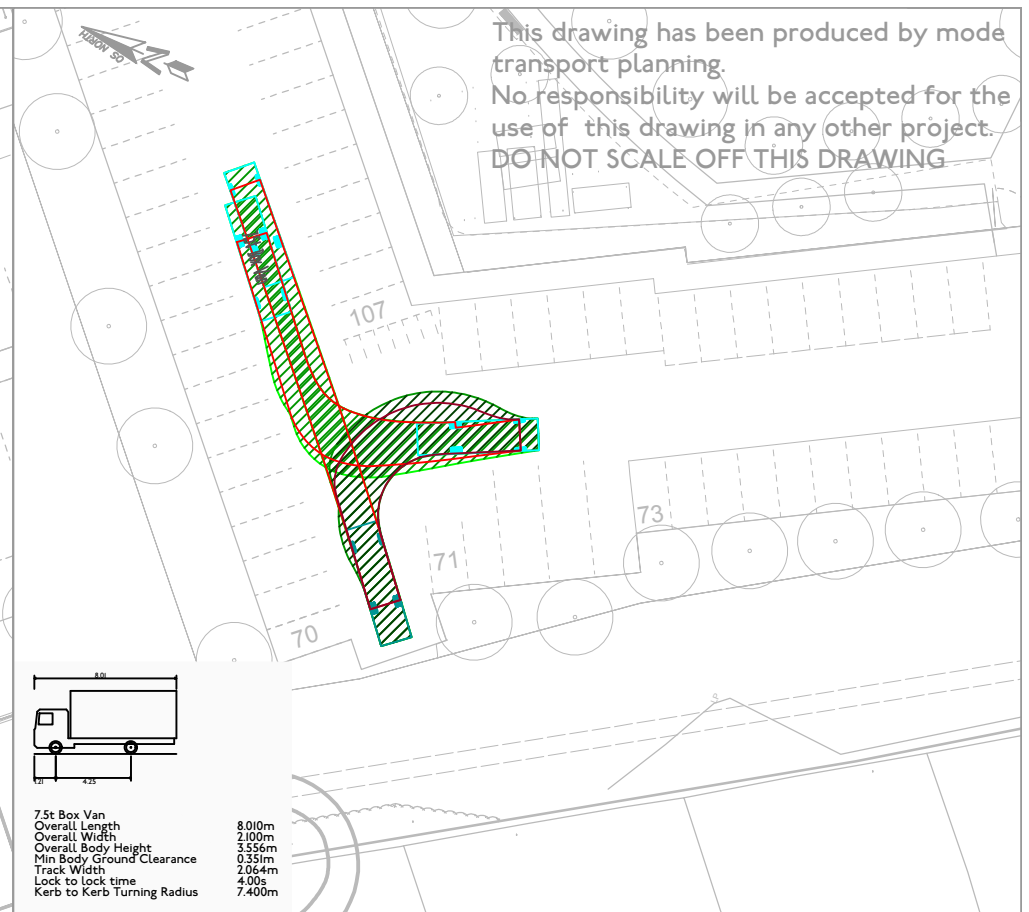
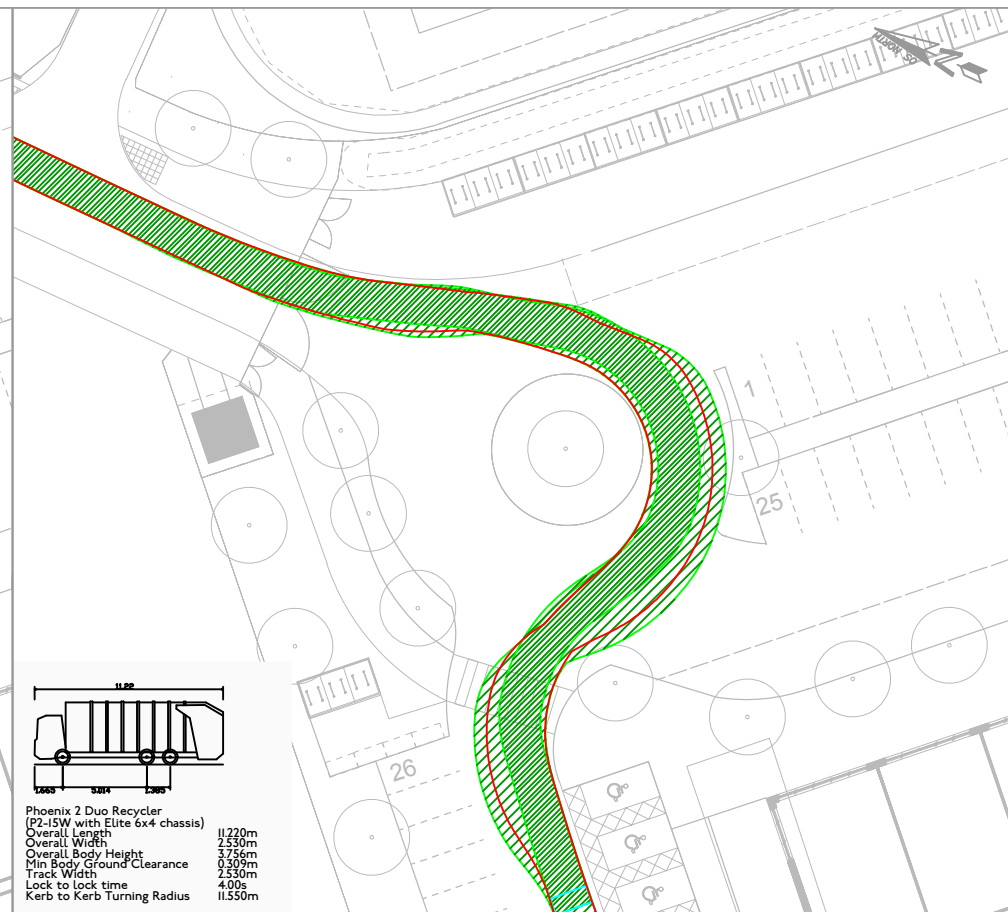
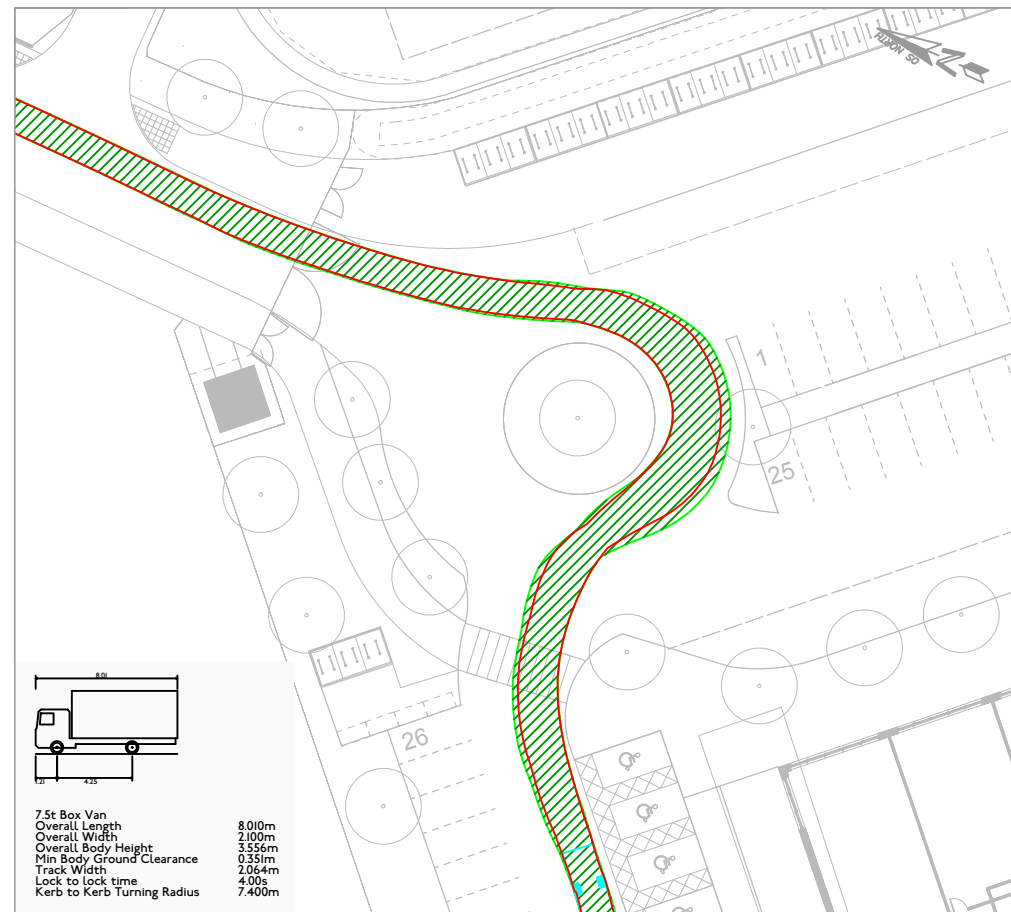
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Swept Path Analysis -
Refuse and Deliveries

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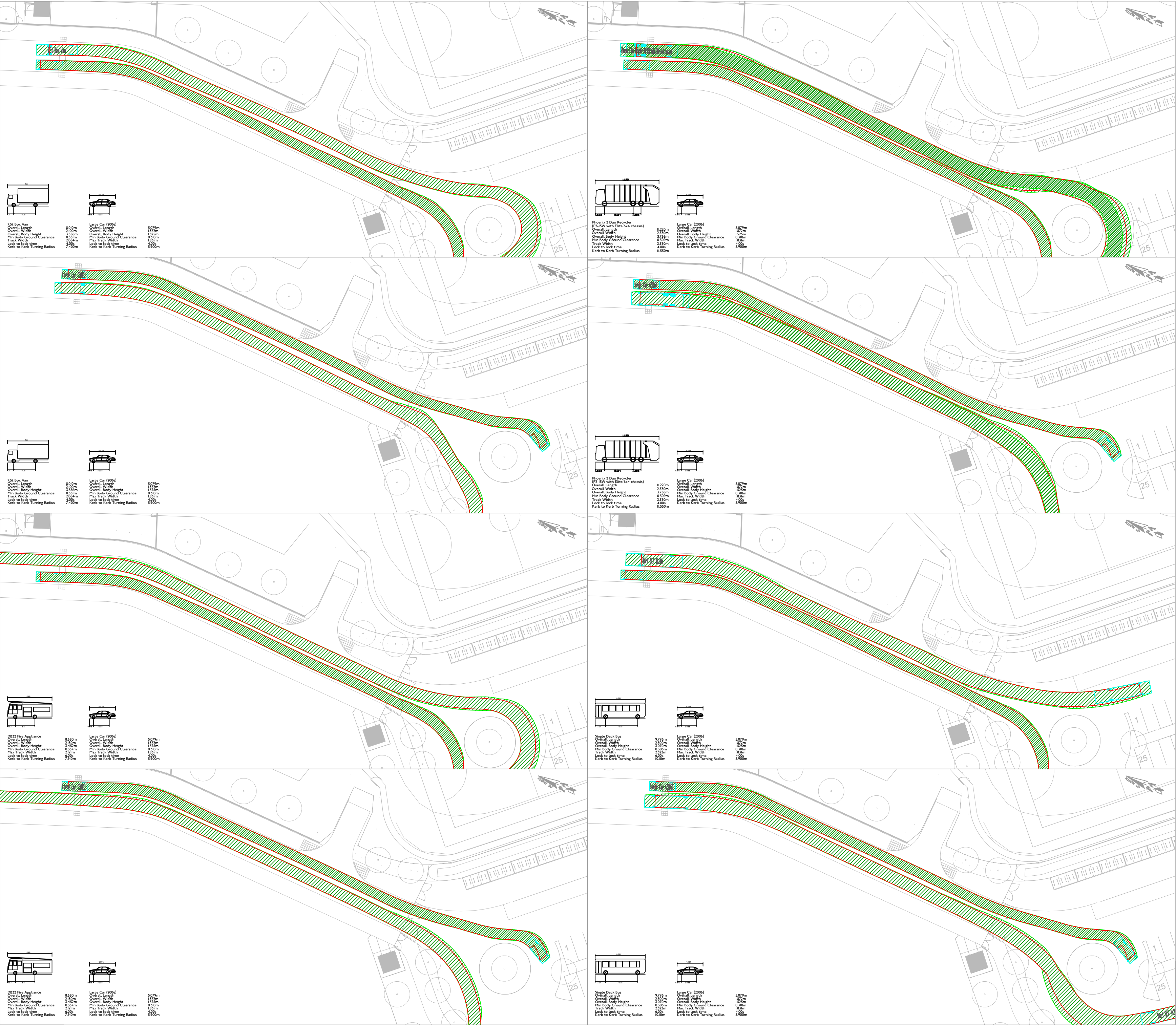
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| B | 16-11-17 | Revised Masterplan |
| A | 13-02-17 | Issued |
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job title
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& Quest Academy

drawing title
Rugby Free Secondary School - Swept
Path Analysis - Vehicles Passing Large Car

drawing no.
J32-2862-PS-003

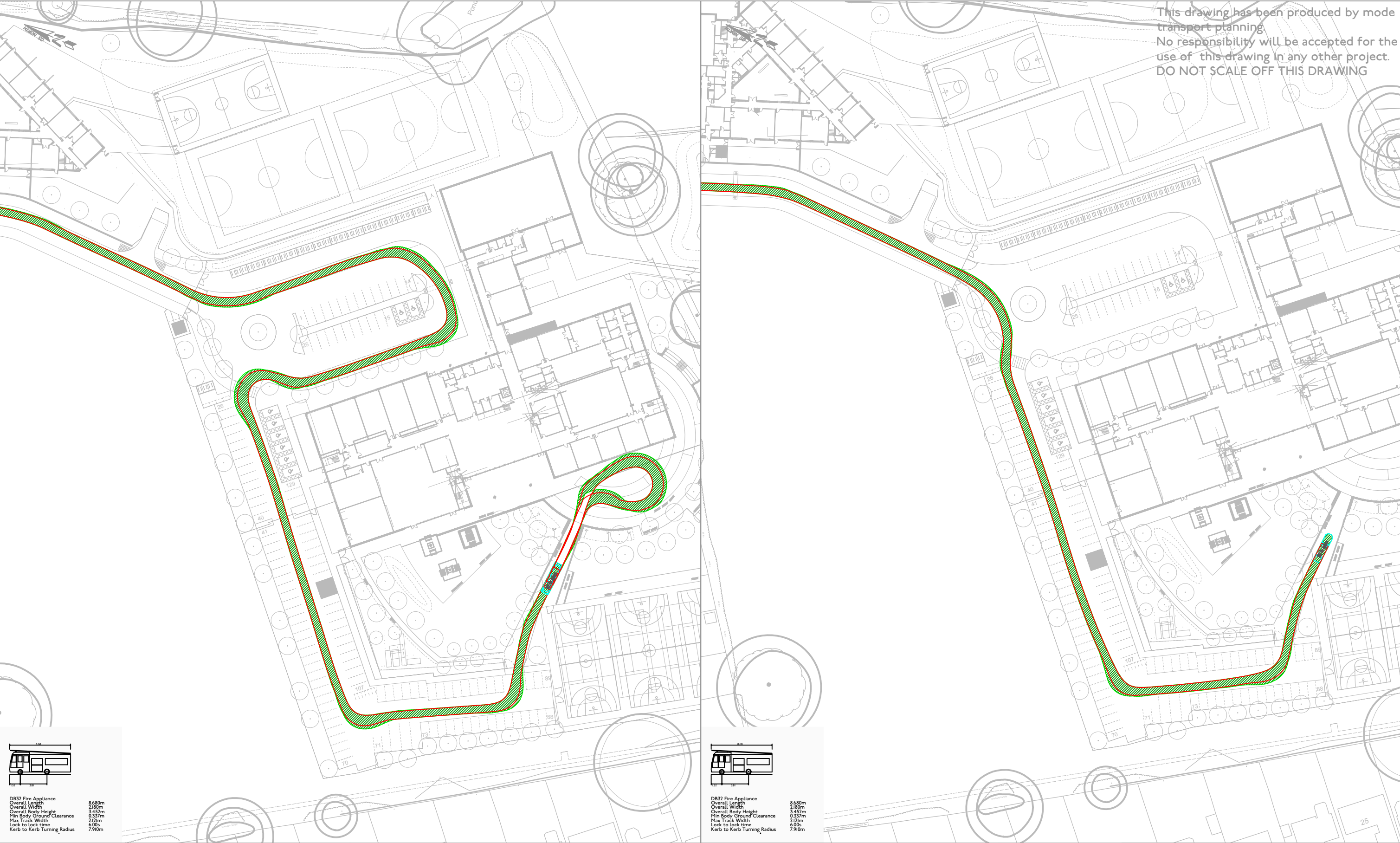
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transport planning

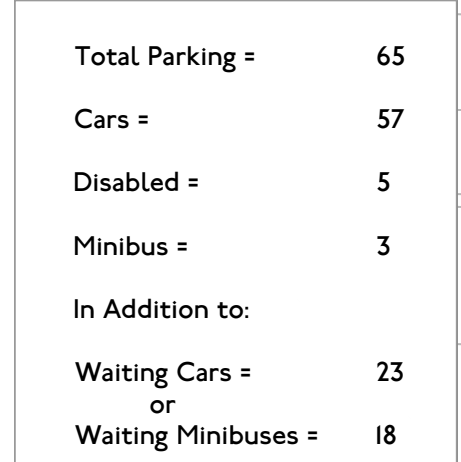


This drawing has been produced by mode transport planning.
No responsibility will be accepted for the use of this drawing in any other project.
DO NOT SCALE OFF THIS DRAWING

DB32 Fire Appliance
Overall Length 8.680m
Overall Width 2.180m
Overall Body Height 3.452m
Min Body Ground Clearance 0.357m
Max Track Width 2.121m
Lock to lock time 6.00s
Kerb to Kerb Turning Radius 7.910m

DB32 Fire Appliance
Overall Length 8.680m
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Min Body Ground Clearance 0.357m
Max Track Width 2.121m
Lock to lock time 6.00s
Kerb to Kerb Turning Radius 7.910m

| | | | | | | | | | |
|---|-----------|--|---|---|----------|-----------|---------|----------|--|
| drawing title Rugby Free Secondary School - Swept Path Analysis - Fire Appliance | client | BAM Construction Ltd | mode transport planning Lombard House 145 Great Charles Street Birmingham B3 3LP |  | scale | I:1000@A3 | D | 25-01-18 | Revised Masterplan Revised Masterplan Revised Masterplan Issued |
| | job title | Rugby Free Secondary School & Quest Academy | t 0121 794 8390 e info@modetransport.co.uk w www.modetransport.co.uk | | drawn | jwm | C | 06-12-17 | |
| | | | | | checked | bdf | B | 16-11-17 | |
| | | | | | created | Feb '17 | A | 13-02-17 | |
| | | | | | rev date | | remarks | | |
| drawing no. | | J32-2862-PS-004 | | | | | | | |



Quest Academy - Proposed Layout

BAM Construction Ltd

Rugby Free Secondary School
& Quest Academy

Lombard House
145 Great Charles Street
Birmingham B3 3LP

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w www.modetransport.co.uk

transport planning

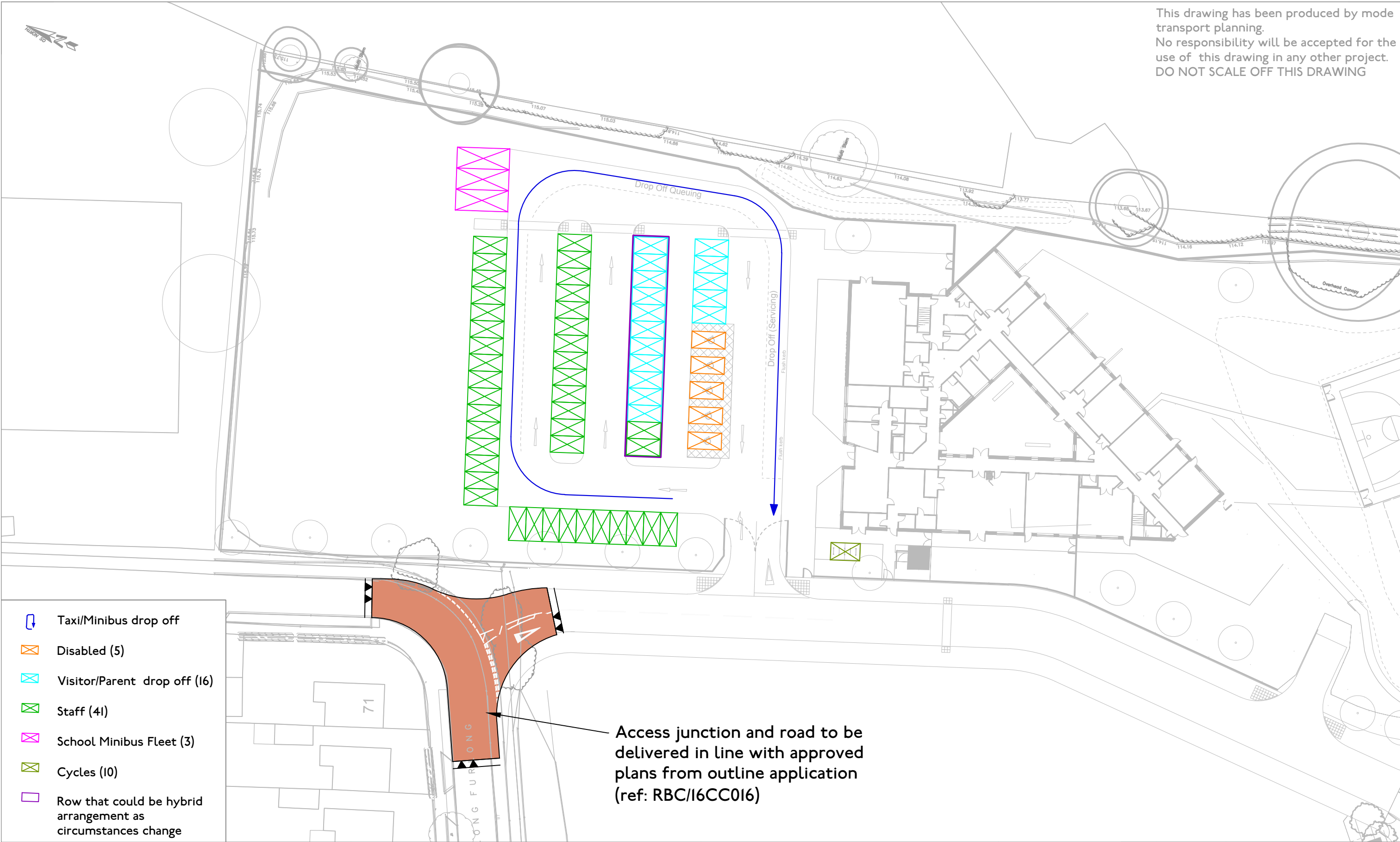
created Sep '17

31-01-18
25-01-18
15-01-18
06-12-17
14-11-17
03-11-17
25-09-17
20-09-17

Amended
Revised Masterplan
Revised Masterplan
Revised Masterplan
Revised Layout
Revised Scheme
Gate Position Amended
Issued

J32-2862-PS-012

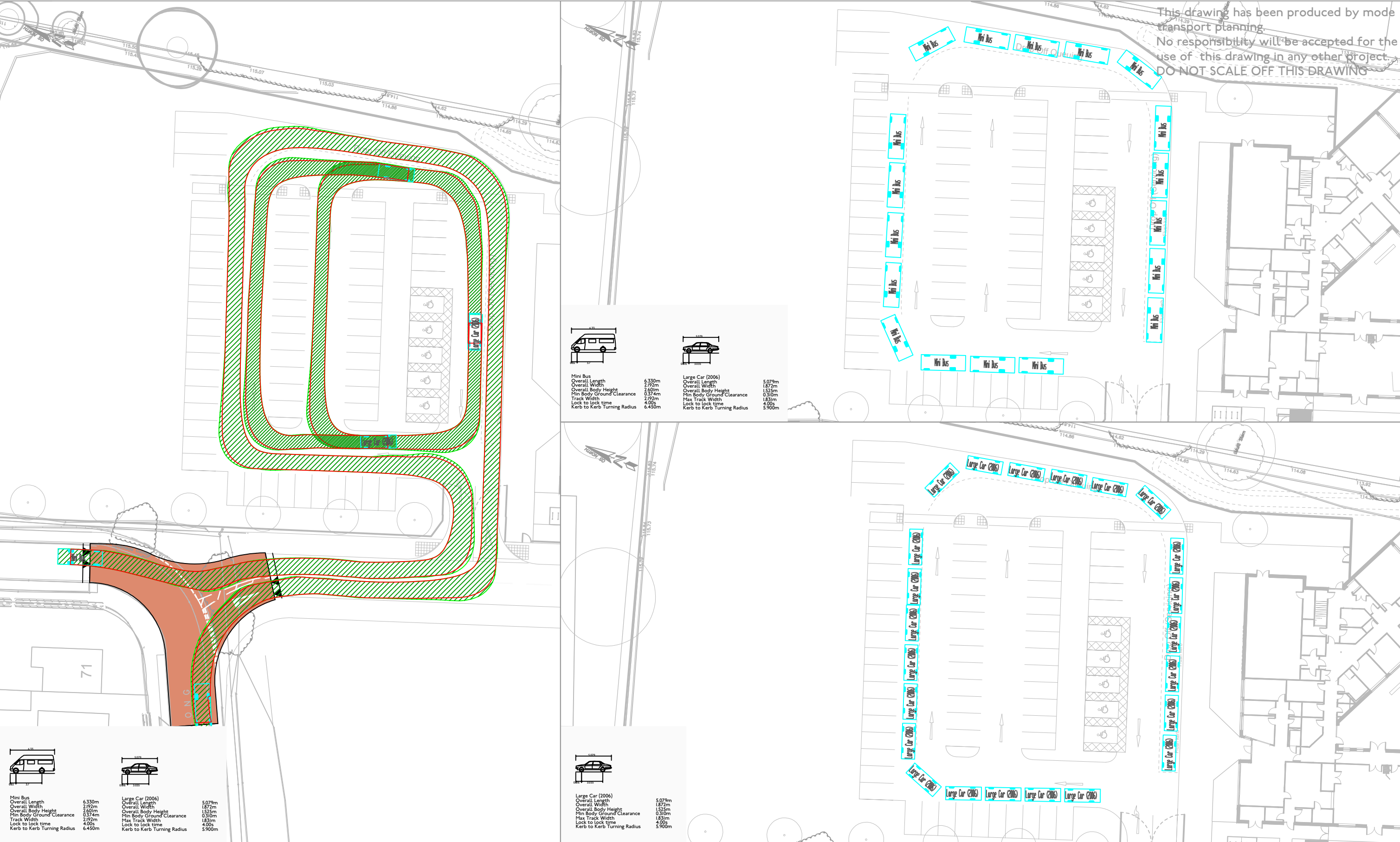
This drawing has been produced by mode transport planning.
No responsibility will be accepted for the use of this drawing in any other project.
DO NOT SCALE OFF THIS DRAWING



- Taxi/Minibus drop off
- Disabled (5)
- Visitor/Parent drop off (16)
- Staff (41)
- School Minibus Fleet (3)
- Cycles (10)
- Row that could be hybrid arrangement as circumstances change

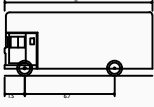
Access junction and road to be delivered in line with approved plans from outline application (ref: RBC/I6CC016)

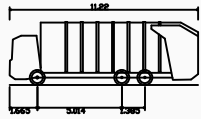
| | | | | | | | | |
|---|---|----------------------|---|---|--------------------|------------------------------------|--|---|
| drawing title Quest Academy - Parking Management Scheme | client | BAM Construction Ltd | mode transport planning Lombard House 145 Great Charles Street Birmingham B3 3LP |  | scale 1:500@A3 | D C B A | 31-01-18 25-01-18 15-01-18 13-12-17 | Amended Revised Masterplan Revised Masterplan Issued |
| | job title Rugby Free Secondary School & Quest Academy | | | | drawn jwm | drawing no. J32-2862-PS-018 | | |
| | | | | | checked bdf | | | |
| | | | | | created Dec '17 | | | |



| | | | | | | | | |
|---|---|----------------------|---|---|------------------------------------|---------------------------------|--|--|
| drawing title Quest Academy - Swept Path Analysis | client | BAM Construction Ltd | mode transport planning Lombard House 145 Great Charles Street Birmingham B3 3LP |  | scale 1:500@A3 | H G F D C B A | 31-01-18 25-01-18 15-01-18 06-12-17 14-11-17 03-11-17 25-09-17 20-09-17 | Amended Revised Masterplan Revised Masterplan Revised Masterplan Revised Layout Revised Scheme Gate Position Amended Issued |
| | job title Rugby Free Secondary School & Quest Academy | | drawn jwm | | checked bdf | | | |
| | | | created Sep '17 | | drawing no. J32-2862-PS-013 | | | |
| | | | | | | | | |




Pantechnic / Removals Van
Overall Length 11000mm
Overall Width 2500mm
Overall Body Height 4730mm
Min Body Ground Clearance 0.54m
Track Width 2500mm
Lock to lock time 6.00s
Kerb to Kerb Turning Radius 12200mm


Phoenix 2 Duo Recycler (P2-ISW with Elite 6x4 chassis)
Overall Length 11220mm
Overall Width 2530mm
Overall Body Height 3756mm
Min Body Ground Clearance 0.307m
Track Width 2530mm
Lock to lock time 4.00s
Kerb to Kerb Turning Radius 11550mm

| | | | | | | | | | |
|--|--------|----------------------|---|---|--|----------|------------------|--|---|
| drawing title Rugby Free Secondary School - Turning Head Arrangement | client | BAM Construction Ltd | mode transport planning Lombard House 145 Great Charles Street Birmingham B3 3LP |  transport planning | scale | I:250@A3 | D C B A | 25-01-18 06-12-17 03-11-17 25-09-17 | Revised Masterplan Revised Masterplan Amended Issued |
| | | | | | drawn | jwm | | | |
| | | job title | Rugby Free Secondary School & Quest Academy | | t 0121 794 8390 e info@modetransport.co.uk w www.modetransport.co.uk | checked | bdf | drawing no. J32-2862-PS-015 | |
| | | | | | | created | Sep '17 | | |



Appendix A



DHLA

Daily Henderson Landscape Architects Ltd
Scotia Works
Leadmill Street
Sheffield
S1 4SE
Tel: 0114 241 2730
info@dailyhenderson.co.uk
www.dailyhenderson.co.uk

Client **BAM Construction**

Project **Rugby Free Secondary School / Quest School**

Drawing **Illustrative Site Masterplan**

Scale 1:1000@A1 Date 24/01/18 Dwg. No. **526-1101**



Appendix B



- 1. THIS DRAWING IS NOT TO BE SCALED FOR CONSTRUCTION PURPOSES.
- 2. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND LEVELS ON SITE.

KEY

PROPOSED DOUBLE YELLOW LINE

PROPOSED SINGLE YELLOW LINE WITH ASSOCIATED PARKING RESTRICTIONS DURING THE SCHOOL AM AND PM PEAK PERIODS

| | | | | |
|---|---|----------|----|----|
| B | SPEED CUSHIONS ADDED FOLLOWING COMMENTS RECEIVED FROM LHA | 04.05.17 | JC | JP |
| A | ADDITIONAL RAISED TABLE PROVIDED FOLLOWING COMMENTS RECEIVED FROM LHA | 31.03.17 | JP | GM |

| REV | DESCRIPTION | DATE | BY | AUTH |
|-----|-------------|------|----|------|
|-----|-------------|------|----|------|



PTB Transport Planning Ltd
Radclyffe House
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B16 8PF
T/F : 0121 454 5530

CLIENT
EDUCATION FUNDING AGENCY

PROJECT
ROKEBY SCHOOLS

TITLE
PROPOSED 20 MPH ZONE AND TRAFFIC CALMING SCHEME

| | | | |
|-----------------------|------------------|----------------------|------------------|
| DRAWN JP | AUTHORISED JC | SCALE 1:1000 @ A3 | DATE 22.03.17 |
| PROJECT NO. T16514 | | DRAWING NO. 007 | REV B |

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