

## **Technical Note**

#### Project: Cheswick Green Primary School, Cheswick Green

# Subject: Cheswick Green Primary School - SMBC Highway Response (Construction Access)

Client:	Solihull Metropolitan Borough Council (SMBC)	Version:	A
Project No:	05214	Author:	OL
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#### I Introduction

#### I.I Background

- 1.1.1 PJA has been commissioned by Solihull Metropolitan Borough Council (SMBC) to provide transport advice in relation to a planning application for a one form entry (1FE) expansion of Cheswick Green Primary School, Solihull.
- 1.1.2 A planning application for the expansion was submitted in May 2021 (planning reference: PL/2021/01418/PPFL). PJA prepared a Transport Assessment (TA), dated May 2021, that was submitted with the application.
- 1.1.3 SMBC, in their capacity as local highway authority was submitted comments on the TA, dated 22<sup>nd</sup> July 2021. This response concluded further information was required.

#### I.2 Note Purpose

1.2.1 This Technical Note provides a response to comments provided by SMBC Highways, specifically in relation to the construction access arrangements.

#### 2 **Construction Access**

#### **SMBC Highways Comment:**

"The Highway Authority requires an access drawing to be submitted for the proposed temporary construction access, which should include details of the geometry of the vehicular access, and demonstrate that visibility splays commensurate with a 40mph speed limit (2.4 x 120m) can be achieved in both directions to the near side edge of the carriageway. Vehicle



tracking drawings should also be provided to demonstrate that two-way vehicle movements can occur within the vehicular access onto the public highway, and also along the access road"

#### **PJA Response**

- 2.1.1 Drawings have been prepared of the proposed temporary construction access detailing:
  - The geometry of the vehicular access;
  - The visibility splays based on a posted speed limit of 40mph; and
  - Tracking of the largest anticipated vehicles for the construction site.
- 2.1.2 As shown on the drawings contained in **Appendix A**, it is proposed to provide temporary construction access to the site compound, via Creynolds Lane. It is proposed to widen the existing access (4m) to 7m, and the dropped kerb width to 15m. It is assumed that a banksman will be present to guide large construction vehicles in, and out of the junction to ensure that vehicles are able to manoeuvre in and out the access
- 2.1.3 The site is not expected to generate significant volumes of construction traffic, with infrequent demand for two-way traffic. Therefore, a two-way 6m section of access has been designed at the access/egress point from Creynolds Lane, which then reduces to single track after the left-turn towards the school grounds.
- 2.1.4 Vehicles entering the site will be required to give way to vehicles exiting the site, as shown by the give-way line markings on the Drawing 05214-A-0002-P0. In the absence of the temporary road having a hard surface to formally demarcate this give-way line, relevant temporary signage will be installed to highlight the location of where vehicles are required to wait to give-way to oncoming traffic. A passing place lay-by has also been provided to the north of the access track, which will allow for vehicles exiting the site to pull over in the event another vehicle is travelling in the opposite direction. It is assumed that the visibility between the proposed give-way line and passing place layby will not be restricted. This arrangement has been designed to minimise the impact on the existing agricultural land, given the temporary nature of the access requirements.
- 2.1.5 Drawing 05214-A-0002-P0 demonstrates that visibility splays of 120m can be achieved in both directions, based on the posted speed limit of 40mph.
- 2.1.6 **Appendix A** also contains vehicle tracking for a range of typical construction vehicles.



### Appendix A Construction Access Drawings



Vegetation clearance required to accommodate new access.

Visibility between lay-by and advisory give way line

In the absence of the temporary road having a hard surface, relevant temporary signage is to be installed to highlight the location of where vehicles are to wait to give-way to oncoming traffic.

Area between the edge of the visibility line and the access road to be clear of

CreynoldsLane

Widening of the field gate access required for construction vehicles

#### Design Assumptions

Location of the existing field gate access assumed from OS mapping and Google Maps. Topographical Survey required to confirm precise location and dimension of the existing access.

Temporary access is assumed to be used by construction traffic only as shown on drawing 05214-A-0003. It is assumed no emergency service vehicles or refuse vehicles will access the site via the new proposed access.

The presence of the works traffic access is assumed to be signed accordingly as part of the traffic management design of the Principal Contractor. It is assumed that a banksman will be present to guide large construction vehicles in and out of the junction, therefore being able to manoeuvre in and out of the access while utilising the full width of Creynolds Lane.

#### Design considerations

Following the swept path analysis, as shown on drawing 05214-A-0003, it was determined that the existing width of the field access (appx. 4m) is insufficient to accommodate the manoeuvres of the construction vehicles and requires widening. The entrance width has been increase to 7m and the dropped kerb length to 15m.

- To minimise the impact on the farmers field, the access road has been designed as a single track after negotiating the left turn towards the school grounds. The left turning width has been designed to vehicle swept paths and a passing place lay-by has been proposed along the single track temporary access.
- A two-way 6m section road has been design at the access/egress location from the highway. The road narrows around the bend to a single track road. Single way road has been designed between the bend and school access to limit the extend of the temporary route to the school.
- width on the approach and exit manouvres from the bend and access.
- Bend of the access road was designed with a radius of 32m to accommodate the construction vehicle swept paths. The proposed radii of the temporary road attempts to keep construction traffic aligned to the perimeter of the existing field.
- 4m wide track road has been proposed between the access bend and the school to minimise the impact on the adjacent field. A passing place lay-by is proposed to allow vehicles to give-way to one another along the straight access road.
- The passing place lay-by location has been determined assuming that the visibility will not be restricted between the proposed give-way line and the proposed passing place lay-by. The lay-by will allow for vehicles entering the field to pull over in the event that another vehicle is traveling in the opposing direction.



NOTES

These drawings have been produced with reference to the CDM







