

# Redshaw 400kV Substation

**Transport Statement** 

May 2025 Land & Planning

# **Contents**

Exe	ecutive	summa	nry	1
1	Intro	duction		3
	1.1	Overvie	ew	3
	1.2	Objectiv	ves	4
	1.3	-	Content	4
2	Poli	cy Revie	eW	5
	2.1	Overvie	ew	5
		2.1.1	National Policy	5
		2.1.2	Regional Policy	6
		2.1.3	Local Policy	7
3	Exis	ting Cor	nditions	9
	3.1	Site Lo	cation & Context	9
		3.1.1	Proposed Development Site Location	9
		3.1.2	Site Access	9
	3.2	Road N	letwork	9
		3.2.1	Existing Road Network	9
		3.2.2	Baseline Traffic Conditions	10
	3.3	Public 7	Transport	11
	3.4	Active 7	Travel	12
	3.5	Road S	Safety	12
4	Prop	osed De	evelopment	14
	4.1	Overvie	ew	14
	4.2	Site Ac	cess	14
	4.3	Constru	uction of Proposed Development	15
		4.3.1	Key Activities	15
		4.3.2	Abnormal Loads	16
		4.3.3	Construction Programme	16
	4.4	Operati	ion of Proposed Development	16
5	Impa	act Asse	essment	17
	5.1	Overvie	ew	17
	5.2		eneration	17
		5.2.1	Construction Personnel	17
		5.2.2	Construction Traffic	17
		5.2.3		17

		5.2.4 Total Vehicles	17
	5.3	Impact Assessment of the Local Transport Network	18
		5.3.1 Road Network	18
		5.3.2 Active Travel Network	19
		5.3.3 Public Transport Operations	19
	5.4	Committed Development	19
	5.5	Mitigation	21
6	Conc	lusion	22
	6.1	Summary of Findings	22
Appe	endice	S	24
Α.	Trans	sport Access Review	25
В.	Subs	tation Access Road Layout Drawings	26
C.	Road	Safety Audit	27
Table		OC Deceline Treffic Conditions (Deily (OA boys) Average True May Flows)	40
		26 Baseline Traffic Conditions (Daily (24 hour) Average Two-Way Flows) 26 Baseline Traffic Conditions (Peak Hour Two-Way Flows)	10 10
		cal Bus Services near the Proposed Development Site	11
		pad Traffic Personal Injury Collision Summary by Severity	13
		26 Road Network Impact (Peak Hour)	18
		eview of Committed Developments	20
Figu	res		
•		tudy Area	3
_		oad Traffic Personal Injury Collision Plot	12
•		roposed Development Configuration	14
Figure	e 4.2: P	roposed Development Access Road Layout	15

# **Executive summary**

This Transport Statement ('TS') documents an assessment of the potential transport-related impacts associated with Scottish Power Transmission plc ('SPT') (hereafter referred to as the 'Applicant') proposal to construct a new 400kV/132kV substation situated near Redshaw in South Lanarkshire, which is hereafter referred to as the 'Proposed Development'.

The Proposed Development includes the installation of a new 400kV Gas Insulated Switchgear ('GIS') substation building and a new 132kV GIS substation building, along with a small distribution substation and 15 associated transformers. Additionally, a new permanent access track and purpose built access (utilising an existing field access) adjoining the substation compound and the temporary contractor's compound to the B7078 will be constructed to facilitate both construction and operational traffic.

Due to the M74 motorway's residual capacity and strategic nature, construction traffic associated with the Proposed Development will not result in a significant intensification of the motorway. As such, the M74 has been scoped out of this assessment.

Based on a review of the Proposed Development against existing conditions, and an assessment of construction traffic against baseline (2026) traffic flows, it is concluded that:

- Once completed, activity at the site will be limited to occasional monitoring and maintenance
  activities. The operation of the Proposed Development is therefore considered to have a
  negligible impact on the operation of the local and strategic transport network and no
  adverse impacts are anticipated.
- Construction of the Proposed Development is scheduled to take 38 months; commencing in November 2025 and concluding in October 2031. Construction activities will generate additional vehicle movements on the local and strategic road network through the movements of personnel, equipment, and construction vehicles to and from the Proposed Development. Construction activities are likely to generate a total of 180 additional vehicle movements on a typical day; 20 of which will be undertaken by Heavy Goods Vehicles ('HGV').
- All traffic movements generated by the Proposed Development will utilise the B7078 and will
  access the substation compound via a new 5.5m wide permanent access track and purpose
  built access (upgrading an existing field access) adjoining the B7078.
- The number of additional vehicle movements generated during the construction phase is expected to be low enough to avoid any detrimental impacts on existing road traffic given the residual capacity. It is also anticipated to have a negligible impact on the operation of public transport in the area and on users of nearby active travel infrastructure.
- The construction of the Proposed Development will also require the movement of approximately 20 abnormal loads. The appointed contractor will identify specific traffic management requirements and localised arrangements for these deliveries, which will be formalised following standard protocols and approvals processes. Due to the low frequency of these movements, any impact on the public road network will be minimal.

This report concludes that impact on the operation of the local and strategic transport network due to the Proposed Development will be negligible. Any impacts will be time-limited and will cease upon the completion of construction works. As such, in general no material interventions or specific mitigations have been proposed.

However, in line with industry-recognised good practice, a bespoke Construction Traffic Management Plan ('CTMP') has been developed for subsequent adoption and development by

the appointed contractor(s). The CTMP outlines details of proposed traffic management measures and associated interventions proposed to be implemented during the associated construction phase, with the aim of minimising local disruption and enhancing safety for all road users. The outline CTMP has been submitted as a separate standalone document in support of the application for planning permission.

The preparation of the project Construction Environmental Management Plan ('**CEMP**') and CTMP will take into consideration the general matters and deliverables relating to other developments. This includes a requirement within the CTMP for the Applicant's appointed contractor to liaise with the appropriate developer organisation of any notably sized development(s) which appear likely to overlap with the Proposed Development; the aim of which is to coordinate and schedule construction-related traffic in such a way to reduce and minimise the effects of combined construction-related activity.

## 28

# 1 Introduction

## 1.1 Overview

The Applicant has submitted a planning application to South Lanarkshire Council ('**SLC**') for consent under Section 32 of the Town and Country Planning (Scotland) Act 1997, to construct a new 400kV/132kV substation near Redshaw in South Lanarkshire hence.

Mott MacDonald has prepared this TS in support of the planning application for the substation and associated works.

The study area is defined as:

- The B7078 between the A70/B7078 priority junction and the M74 / A702 / B7078 (Abington Interchange) roundabout junction (integral to M74 Junction 13).
- The A70 between Douglas and M74 Junction 12

The study area is shown in Figure 1.1.

Context Map
Glasgow
East killerde
Kilmarnock

A70

B7078

Proposed Development

A702

B7078

Figure 1.1: Study Area

Source: Mott MacDonald, LUC

The Proposed Development includes a new 400kV GIS substation building, a new 132kV GIS substation building, a new small distribution substation, and 15 new associated transformers. The works will also necessitate the construction of a new permanent access track from the local public road (the B7078) which will be used to accommodate construction and operational traffic movements.

Full details of the Proposed Development can be found in the EIA Report (Chapter 3) which accompanies the application for planning permission.

The Proposed Development is required to support the anticipated growth in renewable energy projects and potential future connections in the area, with an expected 2GW of renewable energy to be integrated into the transmission network. These improvements will enhance the resilience of local grid infrastructure and are anticipated to ensure a more reliable, fit-for-purpose, and economical transmission network for the south of Scotland.

Due to the M74 motorway's residual capacity and strategic nature, construction traffic associated with the Proposed Development is unlikely to result in a significant intensification of the motorway. As such, the M74 has been scoped out of this assessment.

## 1.2 Objectives

This TS has been prepared to identify the main transport issues relating to the Proposed Development, in addition to providing an assessment of potential impacts to the operation of local and strategic transport network.

## 1.3 Report Content

This report has been prepared in accordance with the Transport Scotland's Transport Assessment Guidance<sup>1</sup> in and is structured as follows:

- Section 2 summarises the key policies relevant to the TS
- Section 3 summarises the existing traffic and transport conditions local to the site
- Section 4 describes the Proposed Development in further detail
- **Section 5** summarises the assessment of the potential impacts to the local and strategic transport network (including mitigation proposals)
- Section 6 sets out a summary of the study findings and conclusions

100329055 | 001 | E | May 2025

<sup>&</sup>lt;sup>1</sup> Transport Scotland (2012) 'Transport Assessment Guidance', Available [online] at: <a href="https://transport.gov.scot">https://transport.gov.scot</a> [accessed 06/05/2025]

## 28

# 2 Policy Review

## 2.1 Overview

Relevant national, regional, and local policy documents have been reviewed and considered as an integral part of developing this TS.

## 2.1.1 National Policy

## 2.1.1.1 National Transport Strategy 2

The National Transport Strategy 2² ('NTS2') sets out the vision for Scotland's transport system from 2020 for the next 20 years. This Strategy was developed based on the original National Transport Strategy in 2006. The document envisages Scotland to have a sustainable, inclusive, safe and accessible transport system, helping deliver a healthier, fairer and more prosperous Scotland for communities, business and visitors. This vision is reinforced by four priorities and associated outcomes. The four outcomes³ are:

- · Reducing inequalities
- Climate action
- · Delivering inclusive economic growth
- · Improving health and wellbeing

These outcomes cover all modes of transport, with the overarching aim of the document to promote success through increasing wellbeing, sustainability and inclusive economic growth.

NTS2 and its outcomes have been taken into consideration when developing this TS. This includes the analysis of existing transport accessibility by mode (in **Section 3**).

## 2.1.1.2 National Planning Framework 4

The National Planning Framework<sup>4</sup> is now in its fourth revision ('**NPF4**'), and sets out the long-term spatial planning strategy for Scotland, which includes three delivery outcomes for Scotland:

- "Sustainable places<sup>5</sup>, where we reduce emissions, restore and better connect biodiversity"
- "Liveable places<sup>6</sup>, where we can all live better, healthier lives"
- "Productive places<sup>7</sup>, where we have a greener, fairer and more inclusive wellbeing economy"

<sup>&</sup>lt;sup>2</sup> Transport Scotland (2020) 'National Transport Strategy 2'. Available [online] at: <a href="https://www.transport.gov.scot">https://www.transport.gov.scot</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>3</sup> Transport Scotland (2020) 'National Transport Strategy 2', page 5. Available [online] at: https://www.transport.gov.scot [accessed 06/05/2025]

<sup>&</sup>lt;sup>4</sup> The Scottish Government (2024) 'National Planning Frame 4'. Available [online] at: <a href="https://www.gov.scot">https://www.gov.scot</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>5</sup> The Scottish Government (2024) 'National Planning Frame 4', pages 36 - 58. Available [online] at: <a href="https://www.gov.scot">https://www.gov.scot</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>6</sup> The Scottish Government (2024) 'National Planning Frame 4', pages 59 - 78. Available [online] at: <a href="https://www.gov.scot">https://www.gov.scot</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>7</sup> The Scottish Government (2024) 'National Planning Frame 4', pages 79 - 93. Available [online] at: <a href="https://www.gov.scot">https://www.gov.scot</a> [accessed 06/05/2025]

28

Since the Planning etc. (Scotland) Act 2006<sup>8</sup>, NPF4 is a statutory document and therefore a material consideration within any planning application.

## 2.1.2 Regional Policy

# 2.1.2.1 A Call to Action: The Regional Transport Strategy for the west of Scotland (2023-2038)

Strathclyde Partnership for Transport's ('**SPT**') Regional Transport Strategy<sup>9</sup> ('**RTS'**) sets out the long-term direction for transport for the west of Scotland.

The RTS includes polices under the following themes:

- Accessing and using transport<sup>10</sup>;
- Reducing the need to travel and managing demand<sup>11</sup>;
- Enabling active travel<sup>12</sup>;
- Enhancing the quality and integration of public transport<sup>13</sup>;
- Improving road safety<sup>14</sup>;
- Decarbonising vehicles and improving air quality<sup>15</sup>;
- Moving goods more sustainably <sup>16</sup>;
- Increasing resilience and adapting to climate change<sup>17</sup>;
- Protecting and enhancing the built and natural environment<sup>18</sup>; and
- Connecting places<sup>19</sup>.

The RTS and its themes and relevant policies have been taken into consideration when developing this TS.

<sup>&</sup>lt;sup>8</sup> UK Government (2006) 'Planning etc. (Scotland) Act 2006'. Available [online] at: <a href="https://www.legislation.gov.uk">https://www.legislation.gov.uk</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>9</sup> Strathclyde Partnership for Transport (2023) 'Regional Transport Strategy'. Available [online] at: <a href="https://www.spt.co.uk">https://www.spt.co.uk</a> [accessed 06/05/2025]

Strathclyde Partnership for Transport (2023) 'Regional Transport Strategy', pages 30 - 31. Available [online] at: <a href="https://www.spt.co.uk">https://www.spt.co.uk</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>11</sup> Strathclyde Partnership for Transport (2023) 'Regional Transport Strategy', pages 32 - 33. Available [online] at: <a href="https://www.spt.co.uk">https://www.spt.co.uk</a> [accessed 06/05/2025]

<sup>12</sup> Strathclyde Partnership for Transport (2023) 'Regional Transport Strategy', pages 34 - 35. Available [online] at: <a href="https://www.spt.co.uk">https://www.spt.co.uk</a> [accessed 06/05/2025]

<sup>13</sup> Strathclyde Partnership for Transport (2023) 'Regional Transport Strategy', pages 36 - 38. Available [online] at: https://www.spt.co.uk [accessed 06/05/2025]

<sup>14</sup> Strathclyde Partnership for Transport (2023) 'Regional Transport Strategy', page 39. Available [online] at: <a href="https://www.spt.co.uk">https://www.spt.co.uk</a> [accessed 06/05/2025]

<sup>15</sup> Strathclyde Partnership for Transport (2023) 'Regional Transport Strategy', pages 40 - 41. Available [online] at: https://www.spt.co.uk [accessed 06/05/2025]

<sup>&</sup>lt;sup>16</sup> Strathclyde Partnership for Transport (2023) 'Regional Transport Strategy', page 42. Available [online] at: <a href="https://www.spt.co.uk">https://www.spt.co.uk</a> [accessed 06/05/2025]

<sup>17</sup> Strathclyde Partnership for Transport (2023) 'Regional Transport Strategy', pages 43 - 44. Available [online] at: <a href="https://www.spt.co.uk">https://www.spt.co.uk</a> [accessed 06/05/2025

<sup>&</sup>lt;sup>18</sup> Strathclyde Partnership for Transport (2023) 'Regional Transport Strategy', page 45. Available [online] at: <a href="https://www.spt.co.uk">https://www.spt.co.uk</a> [accessed 06/05/2025]

<sup>19</sup> Strathclyde Partnership for Transport (2023) 'Regional Transport Strategy', pages 46 - 49. Available [online] at: <a href="https://www.spt.co.uk">https://www.spt.co.uk</a> [accessed 06/05/2025]

## 2.1.3 Local Policy

## 2.1.3.1 South Lanarkshire Council's Local Development Plan 2

SLC's Local Development Plan 2<sup>20</sup> ('**LDP2**') was adopted in 2021. It sets out a vision for South Lanarkshire and aims to promote South Lanarkshire as a place on which to invest, live, visit and work.

LDP2 identifies four objectives<sup>21</sup> which seek to:

- Encourage sustainable economic growth;
- Meet the community needs;
- Enhance and safeguard the environment; and
- Maximise the use of and seek opportunities to enhance existing infrastructure.

LDP2 and its objectives have been taken into consideration when developing this TS.

# 2.1.3.2 South Lanarkshire's Sustainable Development and Climate Change Strategy (2022-2027)

SLC's Sustainable Development and Climate Change Strategy<sup>22</sup> ('**SDCCS**') covers the period from year 2022 to 2027. Its aim is to build a sustainable, climate resilient and net-zero South Lanarkshire together, in a fair and inclusive way.

The strategy includes four key themes<sup>23</sup>:

- · People;
- · Places and Communities;
- The Natural Environment; and
- A Green Economy.

These themes inform a number of priorities including:

- Influence change through improving the understanding of Sustainable Development and the Climate Emergency across South Lanarkshire;
- Improve affordable, sustainable and accessible transport options; and
- Progress a transition to net-zero, energy efficient and climate resilience homes, buildings
  and infrastructure, and minimise the unsustainable use of natural resources and regenerate
  where appropriate.

The SDCCS themes and actions have been taken into consideration when developing this TS.

## 2.1.3.3 South Lanarkshire Local Transport Strategy

SLC's Local Transport Strategy<sup>24</sup> (LTS) was adopted in 2013 and presented a 10-year vision for transport in South Lanarkshire.

<sup>&</sup>lt;sup>20</sup> South Lanarkshire Council (2021) 'Local Development Plan 2'. Available [online] at: https://www.southlanarkshire.gov.uk [accessed 06/05/2025]

<sup>&</sup>lt;sup>21</sup> South Lanarkshire Council (2021) 'Local Development Plan 2', page 9. Available [online] at: <a href="https://www.southlanarkshire.gov.uk">https://www.southlanarkshire.gov.uk</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>22</sup> South Lanarkshire Council (2022) 'Sustainable Development and Climate Change Strategy'. Available [online] at: <a href="https://www.southlanarkshire.gov.uk">https://www.southlanarkshire.gov.uk</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>23</sup> South Lanarkshire Council (2022) 'Sustainable Development and Climate Change Strategy – Theme and vision'. Available [online] at: <a href="https://www.southlanarkshire.gov.uk">https://www.southlanarkshire.gov.uk</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>24</sup> South Lanarkshire Council (2013) 'Local Transport Strategy'. Available [online] at: https://www.southlanarkshire.gov.uk [accessed 06/05/2025]

## The LTS:

- Outlines the strategy for SLC's roads and transportation plans;
- Looks to how the roads and transportation system will develop in the short and long term;
- Is about making sure that transport supports regeneration and sustainable development;
- Sets out improvements in the quality and safety of roads and transportation; and
- Aims to improve health by encouraging walking and cycling.

SLC are in the process of developing the 2024-2034 LTS which is yet to be published.

The current LTS objectives have been taken into account when developing this TS.

#### 28

# 3 Existing Conditions

## 3.1 Site Location & Context

## 3.1.1 Proposed Development Site Location

A high-level Transport Access Review and site visit was undertaken in on Tuesday 25 September 2023. The Transport Access Review is included in **Appendix A**.

The Proposed Development site is located on agricultural land adjacent to the B7078 west of the M74 between Junction 12 (Uddington) and Junction 13 (Abington) as indicated in **Figure 1.1.** 

There are no major settlements in proximity to the Proposed Development, however, the B7078 does facilitate access to the nearby Andershaw and Kennoxhead windfarms, a disused hotel and truck stop, Duneaton Quarry, and several isolated farmsteads.

The closest population centre is the village of Douglas, located approximately 3.5 km to the northwest with a population of just under 1,500.

#### 3.1.2 Site Access

A new vehicular access to the Proposed Development Site, utilising an existing field access will be constructed as part of the Proposed Development. A new 5.5m wide permanent access track will connect to the B7078 (serving as the primary access for the works). Further information regarding the site access is detailed in **Section 4.2**.

## 3.2 Road Network

## 3.2.1 Existing Road Network

Roads in the study area (shown in **Figure 1.1**) are detailed in this Section. As described in **Section 1.1** the M74 has been scoped out of the assessment.

## 3.2.1.1 B7078

The B7078 is a local single carriageway road administered by SLC, situated in an approximate north-south direction parallel to the nearby M74 and can be accessed from the north via the A70 (Ayr Road), from the south via Junction 13 of the M74 at Abington, and from the west via the B740.

## 3.2.1.2 A70 (Ayr Road)

The A70 (Ayr Road) forms a priority junction with the B7078 to the north of the Proposed Development. It links to the M74 motorway at Junction 12.

## 3.2.1.3 Speed Limits

The B7078 and A70 (Ayr Road) are single carriageway roads typically subject to a 60mph (national) speed limit.

#### 3.2.2 Baseline Traffic Conditions

Publicly available traffic counts (sourced from both Department for Transport ('**DfT**') datasets and recent planning applications for nearby developments) have been referenced to determine a set of baseline traffic flows for those sections of local roads anticipated to be used by traffic generated by the Proposed Development. These local transport routes are the:

- B7078; and
- A70 (Ayr Road).

National Road Traffic Forecast 97 ('NRTF97')<sup>25</sup> growth factors have been applied to the available counts to produce a set of baseline traffic flows for 2026, the peak year for construction vehicle movements. A central growth forecast is considered a reasonable and robust assumption and is likely to be reflective of the overall 'slowing' of road traffic growth since the Covid-19 pandemic. The resulting baseline traffic flows are provided in **Table 3.1**.

Table 3.1: 2026 Baseline Traffic Conditions (Daily (24 hour) Average Two-Way Flows)

Count Location	Source	Cars + LGVs	HGVs + PSVs	Total
A70 (Ayr Road) [between M74 on- slip/off-slip at J12]	DfT	3,278	580	3,858
A70 (Ayr Road) [west of Douglas]	DfT	2,118	317	2,435
A70 (Ayr Road) between the B7078 junction and Junction 12 of the M74	M74 West Renewable Energy Park Environmental Impact Assessment Report (EIAR), Ramboll	3,615	1,115	4,730
B7078 (by Andershaw Wind Farm)	M74 West Renewable Energy Park EIAR, Rambollut	602	304	906

Source: DfT<sup>26</sup>, Ramboll<sup>27</sup>

DfT traffic data includes hourly traffic flows. A factor to convert daily traffic flow to peak hour traffic flow has been derived using manual count data collected as part of DfT Road Traffic Counts for non-DfT count locations.

The DfT traffic data has identified 16:00 –17:00 as the network peak hour, with the resulting 2026 baseline peak hour traffic flows provided in **Table 3.2**.

Table 3.2: 2026 Baseline Traffic Conditions (Peak Hour Two-Way Flows)

Count Location	Cars + LGVs	HGVs + PSVs	Total
A70 (Ayr Road) [between M74 on-slip/off-slip at Junction 12]	293	54	347

<sup>&</sup>lt;sup>25</sup> Department of the Environment, Transport and the Regions (1997). National Road Traffic Forecasts (Great Britain).

<sup>&</sup>lt;sup>26</sup> Department for Transport 'Road Traffic Statistics' Manual Count Point Locations (<u>10827</u> and <u>40825</u>). Available [online] at <a href="https://roadtraffic.dft.gov.uk/">https://roadtraffic.dft.gov.uk/</a> [accessed 02/05/2025]

<sup>&</sup>lt;sup>27</sup> Renewco Power & Ramboll (2024) 'M74 West Renewable Energy Park, Environmental Impact Assessment Report, Chapter 9 Traffic and Transport'. Available [online] <a href="https://publicaccess.southlanarkshire.gov.uk/">https://publicaccess.southlanarkshire.gov.uk/</a> (Planning Reference: P/24/1236) [accessed 02/05/2025]

A70 (Ayr Road)	229	23	252
[west of Douglas]			
A70 (Ayr Road) between the B7078 junction and Junction 12 of the M74	338	104	442
B7078 (by Andershaw Wind Farm)	57	29	86

Source: DfT<sup>28</sup>, Ramboll<sup>29</sup>

## 3.3 Public Transport

There is limited public transport provision in the vicinity of the site, with some infrequent bus services operating on the A70 (Ayr Road) to the north. These services primarily operate between the village of Glespin (to the west) and Lanark (to the northwest), routing via the A70 (Ayr Road) including the section beneath the M74 to the north of the site.

A summary of those services operating in proximity of the site has been included in Table 3.3.

Table 3.3: Local Bus Services near the Proposed Development Site

Service	Route	Route Section	Frequency	Operator
8A	Glespin – Lanark [via Douglas, Uddington, Rigside, Douglas Water, Cairnhouse, Lesmahagow, Kirkmuirhill, Auchenheath, Kirkfieldbank]	A70 (Ayr Road)	1x service/day [Sunday only]	Stuart's Coaches
9	Glespin – Lanark [via Douglas, Uddington, Rigside, Douglas Water, Kirkfieldbank]	A70 (Ayr Road)	2x services/day [weekdays] 4x services/day [Weekends]	Stuart's Coaches
39	Glespin – Lanark [via Douglas, Uddington, Rigside, Hyndford Bridge]	A70 (Ayr Road)	1x service/day [Saturday only]	Stuart's Coaches
259	Lanark – Glespin [via Kirkfieldbank – Rigside – Uddington – Douglas]	A70 (Ayr Road)	7x services/day [weekdays + Saturday only]	Whitelaw Coaches

Source: Stuart's Coaches<sup>30</sup>, Whitelaw Coaches<sup>31</sup>

<sup>&</sup>lt;sup>28</sup> Department for Transport 'Road Traffic Statistics' Manual Count Point Locations (10827 and 40825). Available [online] at <a href="https://roadtraffic.dft.gov.uk/">https://roadtraffic.dft.gov.uk/</a> [accessed 02/05/2025]

<sup>&</sup>lt;sup>29</sup> Renewco Power & Ramboll (2024) 'M74 West Renewable Energy Park, Environmental Impact Assessment Report, Chapter 9 Traffic and Transport'. Available [online] https://publicaccess.southlanarkshire.gov.uk/ (Planning Reference: P/24/1236) [accessed 02/05/2025]

<sup>&</sup>lt;sup>30</sup> Stuart's Coaches Timetable Information. Available [online]at: https://stuartscoaches.co.uk [accessed 06/05/2025]

<sup>&</sup>lt;sup>31</sup> Whitelaw Coaches Timetable Information. Available [online] at: <a href="https://bustimes.org">https://bustimes.org</a> [accessed 06/05/2025]

#### **Active Travel** 3.4

National Cycle Network Route 74 (NCN 74)32 is located along the length of the B7078 in the study area. The majority NCN 74 in the locality of the site is a fully segregated shared use footway/cycleway of good quality and condition. There is a section, of on-road cycle lane for approximately 2.2km along the B7078 approaching the priority junction with the A70 (Ayr Road), where the route then continues onwards as a segregated path.

This section of NCN 74 also forms part of SLC's Core Path network<sup>33</sup>.

#### 3.5 **Road Safety**

Recorded Personal Injury Collision ('PIC') data was obtained from publicly available DfT datasets which included recorded road traffic incidents on the public road network in study area.

In line with standard practice, data from the most recently available three years (June 2021 -June 2024 inclusive) has been assessed. An incident plot has been produced and included in Figure 3.1 with an accompanying summary provided in Table 3.4.

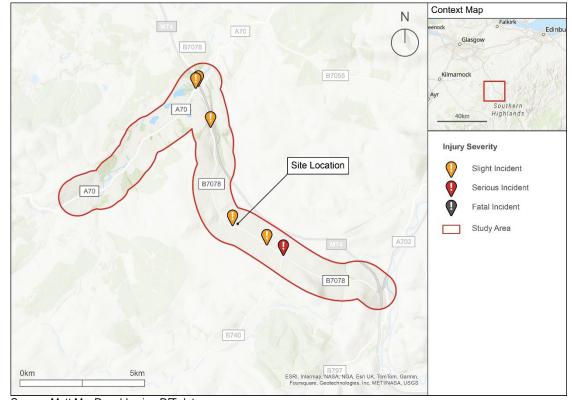


Figure 3.1: Road Traffic Personal Injury Collision Plot

Source: Mott MacDonald using DfT data

<sup>32</sup> Sustrans National Cycle Netowrk Available [online] https://www.sustrans.org.uk/national-cycle-network/ [accessed 06/05/2025]

<sup>33</sup> South Lanarkshire Council Core paths plan maps Available [online] at: https://www.southlanarkshire.gov.uk/downloads/download/676/core\_paths\_plan\_maps (Maps 38 and 44) [accessed 06/05/2025]

Table 3.4: Road Traffic Personal Injury Collision Summary by Severity

Year	Slight	Serious	Fatal	Total	
2021	0	0	0	0	
2022	3	1	0	4	
2023	2	0	0	2	
2024	0	0	0	0	
Total	5	1	0	6	

Source: DfT34

A total of six PICs were recorded on the local road network adjacent to the site, one of which was classified with a serious severity outcome. The distribution of incidents does not suggest the presence of any 'crash clusters' near the Proposed Development.

It is therefore concluded that the road network adjacent to the site does not have a poor safety record.

<sup>34</sup> Department for Transport Road Safety Data. Available [online] at : <a href="https://data.gov.uk">https://data.gov.uk</a> [accessed 06/05/2025]

# 4 Proposed Development

## 4.1 Overview

The Proposed Development will cover an approximate area of 20.7ha. The configuration of the Proposed Development is shown in **Figure 4.1**.

Place And Proceedings of the Control of the Control

Figure 4.1: Proposed Development Configuration

Source: SPEN, LUC

## 4.2 Site Access

Site access (construction and operational) will be taken from a new vehicular access, utilising an existing field access.

A new permanent access track, 5.5m in width, will be constructed to provide access to the substation and will connect to the B7078 immediately to the southeast. The proposed access will take the form of an at-grade priority junction designed to facilitate access to and from the site, with illustrative drawings provided in **Figure 4.2** (the full drawing and other associated drawings can be found in **Appendix B**).

The track is expected to be constructed with stone, but a bituminous finish may be required in some locations, including the interface with the public road and this will be confirmed during the detailed design phase.

A new field access would also link to the access track which is expected to be used infrequently.

A Stage 1 Road Safety Audit been undertaken for the site access and is included (with associated correspondence) in **Appendix C**. It is expected that a Stage 2 Road Safety Audit would be undertaken for the detailed design of the site access.

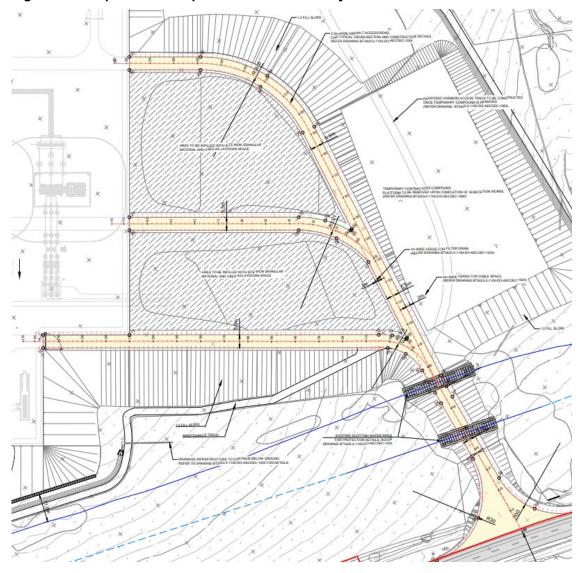


Figure 4.2: Proposed Development Access Road Layout

Source: SPEN

# 4.3 Construction of Proposed Development

## 4.3.1 Key Activities

The Proposed Development will require the following construction activities to be undertaken:

- Earthworks for the 400kV/132kV substations and access road;
- Civil works for the 400kV/132kV substations and access road;
- Installation of the power transformers; and
- Cable civil and ducting works.

28

 During the construction phase, it is anticipated that the following types of machinery will be utilised: HGVs, excavators, cranes, breakers, tractor trailers, and ride-on rollers.

## 4.3.2 Abnormal Loads

Police Scotland manages the movement of abnormal loads throughout Scotland<sup>35</sup>. The Chief Officer of Police Scotland must be notified in advanced of any abnormal load movements throughout Scotland.

Under The Road Vehicles (Construction and Use) Regulations 1986<sup>36</sup> and The Road Vehicles (Authorisation of Special Types) (General) Order 2003 ("**the STGO**") <sup>37</sup> abnormal indivisible loads are characterised by one or more of the following:

- A width of more than 2.9m, including lateral projection<sup>38</sup>;
- A weight of more than 44,000 kilograms<sup>39</sup>;
- An axle load of more than 10,000kg for a single non-driving axle or 11,500kg for a single driving axle<sup>40</sup>; and
- An 18.65m rigid length or 25.9m overall length (including forwards and rearwards projections) <sup>41</sup>.

Abnormal load routes are described in the CTMP.

## 4.3.3 Construction Programme

Construction of the Proposed Development is proposed to be undertaken between November 2025 and October 2031, with associated earthworks and civil works for the substations to be completed by 2026.

On weekdays, construction activities will be undertaken between 07:00-19:00 during summer months (April – September) and between 08:00-17:00 (or as daylight allows) during winter months (October – November<sup>42</sup>). Working hours on Saturdays will be limited to between 09:00-12:00, and no working is proposed on Sundays or national public holidays.

# 4.4 Operation of Proposed Development

Once operational, activities associated with the Proposed Development will be minimal and related to occasional monitoring and maintenance.

<sup>35</sup> Police Scotland 'Moving an abnormal load'. Available [online] at: <a href="https://www.scotland.police.uk">https://www.scotland.police.uk</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>36</sup> The UK Government 'The Road Vehicles (Construction and Use) Regulations 1986'. Available [online] at: <a href="https://www.legislation.gov.uk">https://www.legislation.gov.uk</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>37</sup> The UK Government 'The Road Vehicles (Authorisation of Special Types) (General) Order 2003'. Avilable [online] at <a href="https://www.legislation.gov.uk">https://www.legislation.gov.uk</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>38</sup> The UK Government 'The Road Vehicles (Construction and Use) Regulations 1986', regulation 82. Available [online] at: <a href="https://www.legislation.gov.uk">https://www.legislation.gov.uk</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>39</sup> The UK Government 'The Road Vehicles (Construction and Use) Regulations 1986', regulation 75. Available [online] at: <a href="https://www.legislation.gov.uk">https://www.legislation.gov.uk</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>40</sup> The UK Government 'The Road Vehicles (Construction and Use) Regulations 1986', regulation 30. Available [online] at: <a href="https://www.legislation.gov.uk">https://www.legislation.gov.uk</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>41</sup> The UK Government 'The Road Vehicles (Construction and Use) Regulations 1986', regulation 7. Available [online] at: <a href="https://www.legislation.gov.uk">https://www.legislation.gov.uk</a> [accessed 06/05/2025]

<sup>&</sup>lt;sup>42</sup> Winter months will extend through to March if there are construction delays.

# 5 Impact Assessment

## 5.1 Overview

Given the low levels of operational trips anticipated (see **Section 4.4**), the potential impact on the operation of local transport and strategic network, once construction has been completed, will be negligible. As such, it has not been deemed necessary to undertake an assessment for the Proposed Development's operational phase; this approach was agreed through scoping.

The construction of the Proposed Development will, however, generate vehicle trips through the movement of personnel, equipment and materials to and from the site for a duration of approximately 38 months. The impact assessment set out in the following sections therefore only considers the construction phase of the Proposed Development.

## 5.2 Trip Generation

## 5.2.1 Construction Personnel

The Applicant anticipates that on a typical day during construction, the Proposed Development will require up to 50 personnel on site. A vehicle occupancy rate of 1.25 is assumed equating to 40 vehicles travelling to and from the site on a daily basis, generating 80 two-way car movements per day.

#### 5.2.2 Construction Traffic

Standard HGVs and Large Goods Vehicles ('**LGV**') will be used to transport construction materials, components and plant to the Proposed Development. The Applicant has advised that a peak of 20 HGV trips per day will be required during construction, generating 40 two-way HGV movements. In addition to personnel traffic, a peak of 30 LGV trips per day will be required during construction, generating a 60 two-way LGV movements.

#### 5.2.3 Abnormal Loads

There will be a requirement for the movement of approximately 20 abnormal loads (associated with the movement of transformer and control building components) during the construction phase.

At the time of writing, details regarding the transportation of any abnormal loads to site are still to be confirmed and will likely only be confirmed once a contractor is in place.

## 5.2.4 Total Vehicles

In total, the Proposed Development is expected to generate an additional 180 daily vehicle movements on the local transport network during the peak construction period, comprising:

- 80 two-way car movements.
- 60 two-way LGV movements.
- 40 two-way HGV movements.

# 5.3 Impact Assessment of the Local Transport Network

#### 5.3.1 Road Network

Construction traffic will approach the site on the B7078 either from the north or south, via the A70 (Ayr Road) or the M74 at Junction 13, respectively.

The impact of construction traffic during the local network's peak hour (16:00 – 17:00) has been assessed with the following assumptions:

- All construction personnel departures will occur during this period
- LGV and HGV movements (both inbound and outbound) will be distributed evenly over a
  weekday (a winter month of duration nine hours has been assumed for the assessment)

This results in a total of 49 additional vehicle movements (including five HGV movements) over the course of the peak hour. These additional movements have been assessed against each of the 2026 baseline peak hour traffic flows for the adjacent road network displayed in **Table 3.1**.

The results of this assessment are indicated in **Table 5.1**.

Table 5.1: 2026 Road Network Impact (Peak Hour)

Road	Theoretical Capacity (1 hour, 2-way) <sup>43</sup>	2026 Baseline [No. HGVs]	2026 Baseline + Construction Trips [No. HGVs]	% Change [% Change HGVs Only]
A70 (Ayr Road) [between M74 on- slip/off-slip at Junction 12]	2,400	347 [54]	396 [59]	14% [9%]
A70 (Ayr Road) [west of Douglas]	2,400	252 [23]	301 [28]	19% [22%]
A70 (Ayr Road) between the B7078 junction and Junction 12 of the M74	2,400	442 [104]	491 [109]	11% [5%]
B7078 (by Andershaw Wind Farm)	2,400	86 [29]	135 [34]	57% [17%]

Source: DfT<sup>44</sup>, Ramboll<sup>45</sup>, SPEN

The addition of trips generated by the construction of the Proposed Development would constitute an increase in traffic of between 11% and 57% on stretches of the adjacent road network, with HGV traffic increasing by between 5% and 22%.

In instances where baseline traffic flows are low, as is the case with much of the adjacent road network, large percentage increases may not be fully representative of actual changes in levels of traffic, and it is possible to show relatively large increases yet for the road to operate well below capacity.

<sup>&</sup>lt;sup>43</sup> DMRB, Volume 15, Part 5 "The NESA Manual"

<sup>&</sup>lt;sup>44</sup> Department for Transport 'Road Traffic Statistics' Manual Count Point Locations (<u>10827</u> and <u>40825</u>). Available [online] at <a href="https://roadtraffic.dft.gov.uk/">https://roadtraffic.dft.gov.uk/</a> [accessed 02/05/2025]

<sup>&</sup>lt;sup>45</sup> Renewco Power & Ramboll (2024) 'M74 West Renewable Energy Park, Environmental Impact Assessment Report, Chapter 9 Traffic and Transport'. Available [online] <a href="https://publicaccess.southlanarkshire.gov.uk/">https://publicaccess.southlanarkshire.gov.uk/</a> (Planning Reference: P/24/1236) [accessed 02/05/2025]

For example, the B7078 will see an increase from 86 vehicle movements increasing to 135 vehicle movements. The increase in construction traffic would see one vehicle movement on average every 42 seconds increasing to one vehicle movement on average every 27 seconds. Such levels of traffic are well within the capacity of the road network, including the operation of both the A70 (Ayr Road)/B7078 priority intersection and the M74/A702/B7078 roundabout (Abington Interchange).

A daily traffic increase of 180 vehicle movements on the B7078 and the A70 (within in the study area), which would be less than a 20% increase and less than a 10% increase respectively, would suggest a negligible increase in collision likelihood based on an average of one collision per year on both road sections.

#### 5.3.2 Active Travel Network

While this TS acknowledges that NCN 74 traverses the study area and crucially shares a short on-road segment of the B7078 north of the site, the increase in vehicular trips is low enough that the potential impacts on vulnerable road users should be considered negligible.

Due to the rural setting of the site, the Proposed Development is not expected to generate any walking or cycling trips during construction. Accordingly, the design proposals do not provide pedestrian or cycle access for use by personnel to access the site either during the construction or operational phases of the Proposed Development.

## 5.3.3 Public Transport Operations

Public bus services operate on an infrequent basis on the A70 (Ayr Road) to the north of the site, therefore it is unlikely to be used by personnel travelling to and from the site. As such, the Proposed Development is not expected to generate any additional public transport trips and no provision has been included within the Proposed Development proposals to enhance public transportation access.

Although some construction traffic generated by the Proposed Development is expected to use this route to travel to and from the site, the anticipated increase in vehicle trips is low enough that the level of impact on bus operations should be considered negligible.

# 5.4 Committed Development

A review of relevant planning applications has been undertaken to identify any nearby committed developments which – together with the Proposed Development – may result in impacts to the local transport network above that which may be expected from the Proposed Development alone. In line with standard industry practice, committed developments – defined in this case as those with extant planning consent (with the potential to generate traffic on the adjacent public road network) – are listed in **Table 5.2**.

**Table 5.2: Review of Committed Developments** 

Development	Reference	Authority	Assessment Details
Douglas West Extension (Wind Farm) 46	ECU00001836	Scottish Government Energy Consents Unit	No overlapping of construction routes.
Hagshaw Hill Repowering (Wind Farm) 47	ECU00000737	Scottish Government Energy Consents Unit	No overlapping of construction routes.
Priestgill (Wind Farm) 48	P/19/1803 P/22/1646	SLC	No traffic information available.
Broken Cross surface mine <sup>49</sup>	CL/12/0116	SLC	No traffic information available.
Broken Cross (Wind Farm) 50	P/19/1636	SLC	No overlapping of construction routes
Birkhill (Wind Farm) <sup>51</sup>	P/19/0363	SLC	No traffic information available.
Coalburn Energy Storage Facility <sup>52</sup>	ECU00003458	Scottish Government Energy Consents Unit	No overlapping of construction routes.
Coalburn II Energy Storage Facility <sup>53</sup>	ECU00004698	Scottish Government Energy Consents Unit	No overlapping of construction routes.
Duneaton Quarry <sup>54</sup>	P/21/0106	SLC	No information on construction traffic movement available.
Priestgill Overhead Line <sup>55</sup>	ECU00004475	Scottish Government Energy Consents Unit	No overlapping of construction routes.
MET Mast Centre	N/A	SLC	No information available.

Source: Varies by Development

The preparation of the project CEMP and CTMP will take into consideration the general matters and deliverables relating to other developments. This includes a requirement within the CTMP for the Applicant's appointed contractor to liaise with the appropriate developer organisation of any notably sized development(s) which appear likely to overlap with the Proposed Development; the aim of which is to coordinate and schedule construction-related traffic in such a way to reduce and minimise the effects of combined construction-related activity.

<sup>&</sup>lt;sup>46</sup> Energy Consents Unit 'Douglas West Wind Farm Extension'. Available [online] at: https://www.energyconsents.scot (reference: ECU00001836): [accessed 06/05/2025]

<sup>&</sup>lt;sup>47</sup> Energy Consents Unit 'Hagshaw Hill Wind Farm Repowering'. Available [online] at: <u>https://www.energyconsents.scot</u> (reference: ECU00000737) [accessed 06/05/2025]

<sup>&</sup>lt;sup>48</sup> South Lanarkshire Council. Available [online] at: <a href="https://publicaccess.southlanarkshire.gov.uk">https://publicaccess.southlanarkshire.gov.uk</a> (reference: P/19/1803 and P/22/1646) [accessed 06/05/2025]

<sup>49</sup> South Lanarkshire Council. Available [online] at: <a href="https://publicaccess.southlanarkshire.gov.uk">https://publicaccess.southlanarkshire.gov.uk</a> (reference: CL/12/0116) [accessed 06/05/2025]

<sup>50</sup> South Lanarkshire Council. Available [online] at: <a href="https://publicaccess.southlanarkshire.gov.uk">https://publicaccess.southlanarkshire.gov.uk</a> (reference: P/19/1636) [accessed 06/05/2025]

<sup>51</sup> South Lanarkshire Council. Available [online] at: <a href="https://publicaccess.southlanarkshire.gov.uk">https://publicaccess.southlanarkshire.gov.uk</a> (reference: P/19/1363) [accessed 06/05/2025]

<sup>&</sup>lt;sup>52</sup> Energy Consents Unit 'Coalburn Energy Storage Project'. Available [online] at: <a href="https://www.energyconsents.scot">https://www.energyconsents.scot</a> (reference: ECU00003458) [accessed 06/05/2025]

<sup>&</sup>lt;sup>53</sup> Energy Consents Unit 'Coalburn 2 Energy Storage Project'. Available [online] at: <a href="https://www.energyconsents.scot">https://www.energyconsents.scot</a> (reference: ECU00004698) [accessed 06/05/2025]

<sup>54</sup> South Lanarkshire Council. Available [online] at: <a href="https://publicaccess.southlanarkshire.gov.uk">https://publicaccess.southlanarkshire.gov.uk</a> (reference: P/21/0106) [accessed 06/05/2025]

<sup>&</sup>lt;sup>55</sup> Energy Consents Unit 'Priestgill Connection – Section 37 application'. Available [online] at: <a href="https://www.energyconsents.scot">https://www.energyconsents.scot</a> (reference: ECU00004475) [accessed 06/05/2025]

## 5.5 Mitigation

Based on the assessment described above, the Proposed Development will generate a negligible increase in road traffic for the duration of the construction phase. Any impacts will be time-limited, ceasing upon completion of construction works, and are not anticipated to be disruptive to the local transport network.

In general, no material interventions are deemed necessary to mitigate any impacts arising directly from the construction of the Proposed Development. However, the development will require the movement of abnormal loads. The appointed contractor(s) will identify specific traffic management requirements and localised arrangements for these deliveries, which will be formalised following standard protocols and approvals processes. Due to the low frequency of these movements, any impact on the public road network will be minimal.

In line with industry-recognised good practice, a CTMP has been developed for inclusion within the Proposed Development's application for consent. The document, which will be adopted by the Applicant's appointed contractor(s), outlines the details of proposed traffic management measures and associated interventions to be implemented during the construction of the Proposed Development. This will include, but will not be limited to:

- Clear instructions on appropriate routing to and from the site;
- Signage strategies confirming that all signs are clearly displayed on approach to the site; and
- Details of wheel washes at the site to minimise the impact of dust and debris.

The aim of the CTMP is to minimise local disruption while enhancing safety for all road users. It will remain a dynamic document and is intended to be developed as appropriate prior to commencement (and potentially during) construction activities.

# 6 Conclusion

## **Summary of Findings**

Planning permission is being sought to construct a new 400kV/132kV substation near Redshaw in South Lanarkshire.

The Proposed Development will include the installation of a new 400kV GIS substation building and a new 132kV GIS substation building, along with a small distribution substation and associated transformers. Additionally, a new permanent access track and purpose built access (utilising an existing field access) adjoining the B7078 to the substation compound will be constructed, for both construction and operational traffic movements.

This TS has assessed the traffic and transportation impact associated with the Proposed Development and has identified that:

- Once completed, activity at the site will be limited to occasional monitoring and maintenance activities. The operation of the Proposed Development is therefore considered to have a negligible impact on the local transport network and no adverse impacts are anticipated.
- Construction of the Proposed Development is expected to take 38 months; commencing in November 2025 and concluding in October 2031. Construction activities will generate additional vehicle movements on the local road network through the movements of personnel, equipment and construction vehicles to and from the site. Based on the requirements provided by the Applicant, construction activities are likely to generate a total of 180 additional vehicle movements on a typical day; 20 of which will be undertaken by HGVs.
- All additional vehicle movements will route to and from the Proposed Development via the B7078 and will access the substation compound via a new 5.5m wide permanent access track.
- The number of additional vehicle movements generated during the construction phase is expected to be low enough to avoid any detrimental impacts on existing road traffic. It is also anticipated to have a negligible impact on the operation of public transport in the area and on users of nearby active travel infrastructure.
- The construction of the Proposed Development will also require the movement of approximately 20 abnormal loads. The appointed contractor will identify specific traffic management requirements and localised arrangements for these deliveries, which will be formalised following standard protocols and approvals processes. Due to the low frequency of these movements, any impact on the public road network will be minimal.

This report concludes that impact on the operation of the local and strategic transport network due to the Proposed Development will be negligible. Any impacts will be time-limited and will cease upon the completion of construction works. As such, in general no material interventions or specific mitigations have been proposed.

However, in line with industry-recognised good practice, a bespoke outline CTMP has been developed for adoption by the appointed contractor(s). The CTMP outlines details of proposed traffic management measures and associated interventions to be implemented during the construction phase, with the aim of minimising local disruption and enhancing safety for all road users.

The preparation of the project CEMP and CTMP will take into consideration the general matters and deliverables relating to other developments. This includes a requirement within the CTMP for the Applicant's appointed contractor to liaise with the appropriate developer organisation of

any notably sized development(s) which appear likely to overlap with the Proposed Development; the aim of which is to coordinate and schedule construction-related traffic in such a way to reduce and minimise the effects of combined construction-related activity.

# **Appendices**

A.	Transport Access Review	25
B.	Substation Access Road Layout Drawings	26
C.	Road Safety Audit	27

# A. Transport Access Review



## Redshaw 400kV Substation

**Transport Access Review** 

**Project:** Redshaw 400kV Substation

**Our reference:** 100329055/RED/TN-01/B

Prepared by: E. Fatahiany Date: 23 May 2025

Approved by: J. Dooley Checked by: M. Matheson

Subject: Transport Route Review

Revision	Date	Originator	Checker	Approver	Description
Α	09/10/2023	E Fatahiany	M Matheson	J Dooley	Issue (1)
В	23/05/2025	E Fatahiany	M Matheson	J Dooley	Issue (2)

## 1 Introduction

- 1. The transport access routes assessed are based upon professional judgement of public roads which could logically accommodate construction generated traffic with reference to the proposed site location.
- 2. The road sections assessed are public roads administrated by Transport Scotland (for trunk routes) and South Lanarkshire Council (for local roads).
- 3. A drive-through survey of the Study Area was conducted, by experienced Mott MacDonald Traffic Engineers, on Tuesday 25<sup>th</sup> September 2023. The findings of the access review is documented in **Table 1.1**. Geographical context is provided on plan included as **Appendix A**. The B7078 and the A70 were surveyed from both approaches.
- 4. All hyperlinks with **Table 1.1** are to Google Mapping locations.
- 5. It was observed that there were an several two-way road signs evident in the vicinity of the B7078 and its junction with the A702/M74 roundabout, this is likely due to the several accesses which join this route.

This document is issued for the party which commissioned it and for specific purposes connected with the above-captioned project only. It should not be relied upon by any other party or used for any other purpose.

We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing any error or omission which is due to an error or omission in data supplied to us by other parties.

This document contains confidential information and proprietary intellectual property. It should not be shown to other parties without consent from us and from the party which commissioned it.

Mott MacDonald
Page 2 of 10

## **Table 1.1: Transport Access Review**

Lat/Long Location	Name	Category	Comments	Images
55.59291, -3.83051	B7078 / Poniel Interchange (East)	Roundabout with two lanes with underpass due west.	Speed limit is NSL.  Equestrian warning sign on slip road on approach to Poniel Interchange roundabout. Observed overrun area for wind farm vehicles across the roundabout.  Segregated shared space path part of National Cycle Route 74 (NCR-74) which crosses M74 Junction 11 Slip-off and circulates roundabout, originating from the west and continues southbound along B7078.	
55.592191, -3.830156	B7078 towards Ayr Road	Single and dual carriageway.	Stone bridge with no weight capacity signs.  Single and dual carriageway segregated by verge.  Merging lanes for 200yards observed upon exit of Poniel Interchange southbound. Split islands observed for traffic to cross carriageway for access to various locations.  Banned right-hand turn to access service area and must utilise roundabout to the south to access, noting traffic will join from the east service station.  Two way shared path (inc. NCR-74) continues along this road southbound only after Poniel Roundabout. This shared path then crosses the carriageway on approach of Milbank Interchange roundabout and continues west bound along Ayr Road. It is noted a narrow footpath is also continued southbound.  After service stations single carriageway widens to dual carriageway southbound.  Wide single carriageway with hatching on both left and right hand sides or road narrowing and disjointed road restraint systems observed.	
55.57719, -3.81095	B7078 / Milbank Interchange (East) / A70 (Ayr Road)	Two-lane roundabout	Speed limit is NSL, roundabout is two lanes and is wide. This roundabout interests with the A70 (Ayr Road) and acts as a connection with the M74.  Two-way shared path (inc. NCR-74) is along the south-western side and continues along Ayr Road.	
55.576608, -3.811746	A70 / Ayr Road on approach to Milbank Interchange (west)	Singe Carriageway	Two way shared path (inc. NCR-74) continues along this road along the eastbound section of road only after towards Milbank Interchange (West) roundabout.  The A70 goes through an underpass of the M74 with no height restrictions observed.	

Mott MacDonald
Page 3 of 10

Lat/Long Location	Name	Category	Comments	Images
			The road centreline turns into a double solid white line on approach to Milbank Interchange (West).	
55.574658, -3.815026	Milbank Interchange (west)	Two-lane roundabout	Serves the A70 (north-west to south-east) and the run-off from the M74. Two-way shared path.  Two way shared path (national cycle route 74) continues along this road due west on the eastbound section of road. This splits into two at the roundabout but re-joins on exit.	TY E management of the state of
55.576608, -3.811746	A70 / Ayr Road on approach to B7078	Singe Carriageway	No change per previous comment to the road composure itself, other than evident road restraint system at the southern edge opposite the junction and screed surfacing on approach indicating potential past instances of speeding.  The shared path splits, where the NCR-74joints the B7078 and is not segregated. The sharedpath continues along Ayr Road on the eastbound lane.  Street lighting improvement works observed, vegetation hinders visibility space either turning west onto the A70 or travelling on the A70 past the B7078.	

Lat/Long Location	Name	Category	Comments	Images
55.573846, -3.816511	Section of B7078 between Ayr Road and ISSB	Single carriageway	Single carriageway observing NSL speed limit, clear sections of hard strip on both sides of the single carriageway which starts off being flanked by dense forestry. Approach road to Ayr Road from B7078 has scrim surfacing Several HGVs observed utilising hard strips. The flanked forestry eventually ends to become clear land on either side. It was observed signage past forestry areas have been clipped by vehicles indicating areas of wind vortex.  The B7078 serves as access to residential, agricultural and quarrying areas. It connects to the A76 the B740, serving areas such as Crawford John and Corsebank.	
			Gated accesses are observed which may lead to an underpass for the M74 for local residents. Informal parking areas / passing areas observed. The NCR-74 starts as an un-segregated cycle path along the B7078, where there is an unsegregated crossing point which for the NCR-74 within the first 2.25km which crosses the B7078. There-after it is a segregated cycleway until the Abington Interchange, where it has a mixture of crossings adjacent to the B7078.	
			Works access and new roundabout ahead signs observed (in which some are covered in vegetation), with either prominent or minor access roads on either side with occasional road restraint systems. There are two junctions with advanced lorry turning signs and cycling crossing signs at Andershaw Wind farm and Kennoxhead Windfarm Substation. These are supplemented with advanced warning cyclists crossing sign as well, in which the cycling crossing is unsegregated but has red scrim.	

Mott MacDonald
Page 5 of 10

Lat/Long Location	Name	Category	Comments	Images
55.524939, - 3.787320	Section of B7078 adjacent to ISSB	Single Carriageway	No changes per previous comments on road purpose/composure in general, speed limit is still NSL.	
			To access the proposed site the terrain profile begins with a slight drop in elevation in a ditch for an abrupt and immediate rise in elevation by a few metres at the start of the adjacent Red Moss Hotel layby. Further east, around the midpoint of Red Moss hotel, near the land boundary / masonry wall the terrain plateaus becoming more feasible for access. There is a gated fence line observed here which seems most feasible for access. The change in height from ditch to land then rises again shortly after the masonry wall.	
			Observed Red Moss Hotel which is vicinity of the ISSB to the south, which has a vide lane to facility HGVs parking adjacent to the B7078 and is separated by verge line, which is approximately 200m in length. It should be noted that it is assumed this site is one-way.	
			The segregated NCR-74 is to the immediate west of Red Moss Hotel and further away from the B7078.	

Lat/Long Location	Name	Category	Comments	Images
55.50316, - 3.69751	Section of B7078 between ISSB and Abington Interchange	Single Carriageway	No changes per previous comments on road purpose/composure in general, speed limit is still NSL.  Recent signs of re-surfacing along this section of road. Segregated NCR-74 past Red Moss HGV Hotel southbound continues to maintain wider verge separation with the B7078.  There are several at-grade junctions which serve as accesses located in the treeline which is due south-east of the Red Moss HGV Hotel. They do not have advanced warning signs which may hinder visibility of any vehicles exiting. Disjointed road restraint systems observed along this route area.  Another access is also observed which leads to an underpass at the M74, which is located mid-way between both Duneaton Quarry sites respectively. No advanced warning junction sign observed for this obscure junction, just before junction to cottage which is signed. At the first Duneaton Quarry site, it is noted there was not an advanced junction warning left sign, yet a HGV was observed egressing from this junction.  It is observed that the segregated NCR-74 route has a lower segregation gap further south-east, than at the Red Moss Hotel, where is a large parking layby adjacent to it. Further road restraints observed at locations with steeper drops into ditches at either verge towards Abington Interchange.  Craighead Road intersects the B7078 from the south past Duneaton Water, opposite the second Duneaton Quarry junction. The NCR-74 has a segregated crossing at this point along Craighead Road. Past this area prominent embankments on either side are observed flanking the B7078. Thereafter NCR-74 crosses the B7078 at 100m from the approach to Abington Interchange Roundabout (West).  It was observed that a pedestrian was utilising the northern edge of the carriageway as a walking route, but this is not a known walking route and should be noted by site operatives.	
55.50316, - 3.69751	Abbington Interchange (West) / A702 Roundabout	2-lane roundabout	NCR-7 continues towards the A702 from this route. it has <u>an un-segregated crossing at</u> the slipstream from the roundabout on the M74 Northbound and there is an <u>un-segregated pedestrian crossing</u> at slip-road from the M74 onto the Abbington Interchange. The NCR-7 is a mix of level road marking or segregated path with shared space in this area.	

Lat/Long

Name

**Category Comments** 

Location	Name	Category	Comments	inages
55.50316, - 3.69751	Abbington Interchange (East) / A702 Roundabout	2-lane roundabout	NCR-7 continues from the B7078 on both side across the M74 overpass connecting both Abington Interchange roundabouts West and East. The NCR-7 is a mix of level road marking or segregated path with shared space in this area.  National Cycleway 74 continues South-east along the A702 upon exiting	
			Abington Interchange East on a mixture of shared-space or on-road markings. Multiple advanced cyclists crossing road signs observed.	
			Roundabout serves as an access to Abington due south or to areas such as Wandel or Coulter due North-East, with Abbington Services due North.	
55.573788, - 3.816423	A70 / Ayr Road	Single Carriageway	The A70 spans west-east, between the A76 and the M74, connecting Cumnock to Mulkirk, Glespin, Douglas and Uddington respectively. This route serves engineering industries, agricultural, residential, school and health facilities.	
			The speed limit is mostly NSL but reduces to 30mph and 20mph respectively when in areas of dense residential areas or adjacent to Douglas Primary School, which evidently has priority traffic calming chicanes. Road works were observed on approach to Douglas at stone bridges with no observes weight strictions.	
			There is a mixture of double white lines predominately due west of double primary school, towards and past Glespin, where it was observed in some sections the road width would narrow especially near embankments. Friction surfaces would be observed in some instances, especially at narrow bends.	
			Cycle users and bus-stop facilities were observed along this route as well, most notably within Douglas and Muirkirk. It is noted that a potential Scottish Ambulance Service facility was spotted in vicinity of Land	
			This route was observed to contain a higher than normal quantity of HGVs, with advanced warning signs for agricultural vehicles as well. Several accesses were observed in-use by Forestry Scotland.	

Images

Mott MacDonald
Page 8 of 10

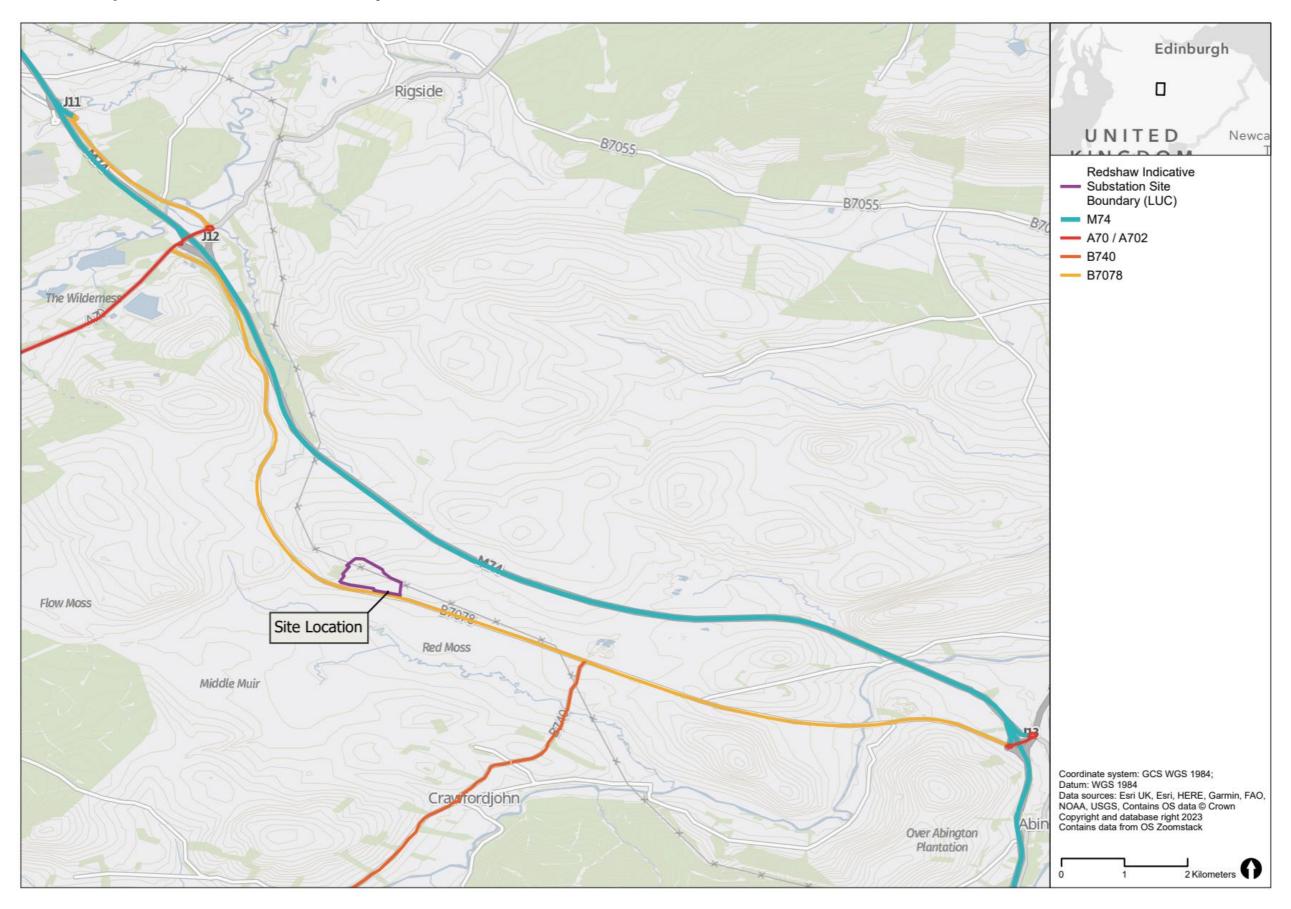
Lat/Long Name Category Comments Images
Location



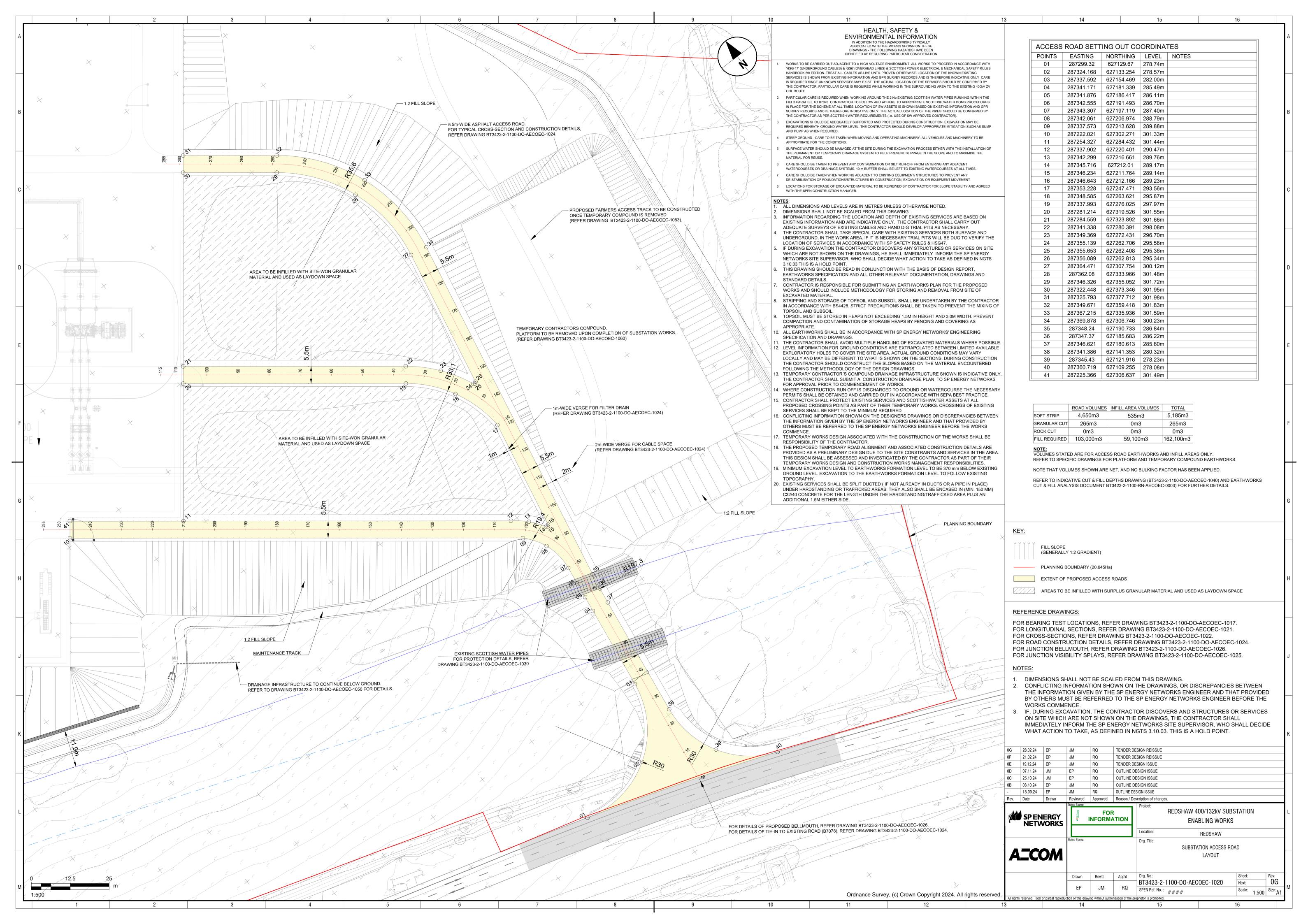
### **Appendices**

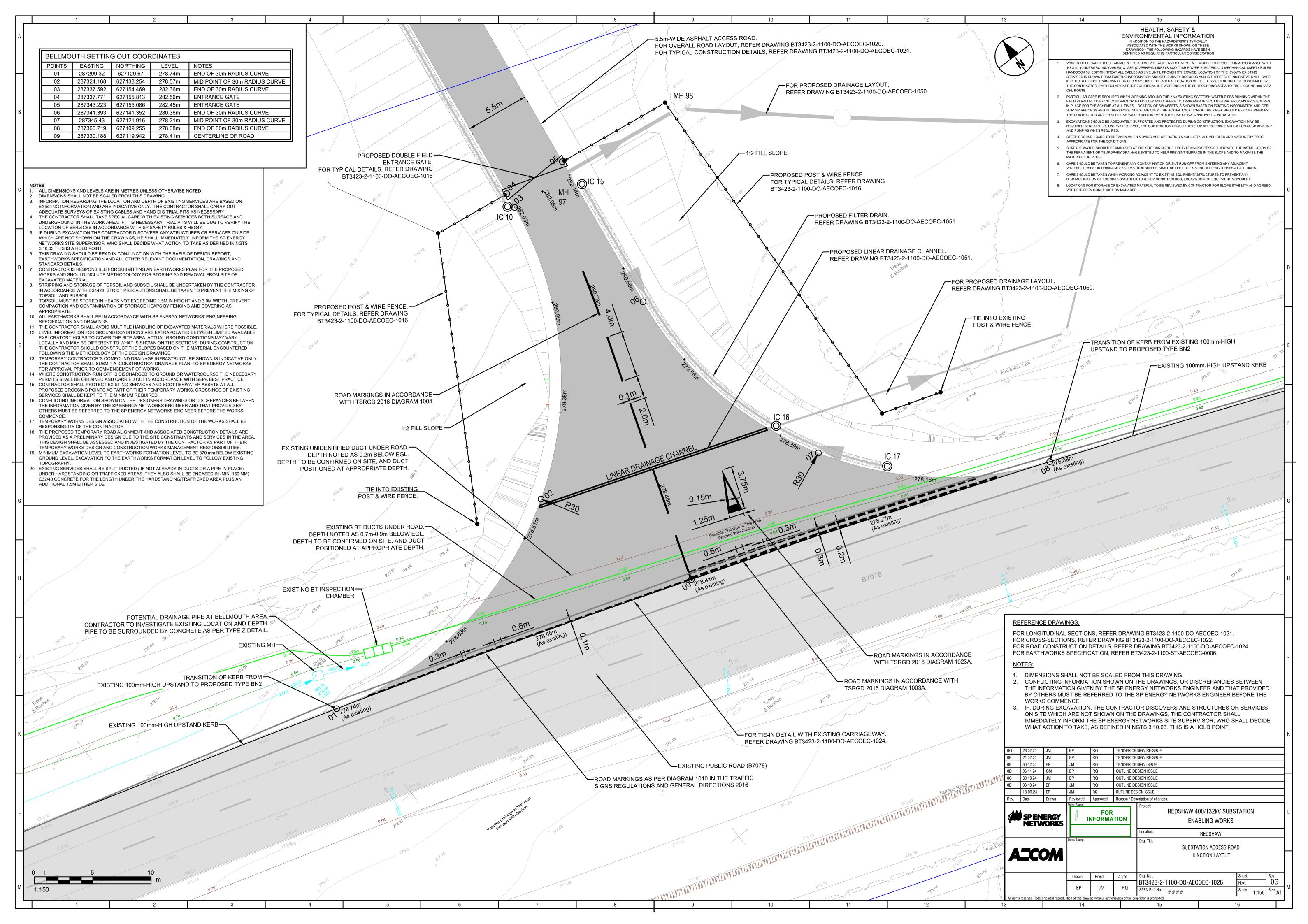
Mott MacDonald
Page 9 of 10

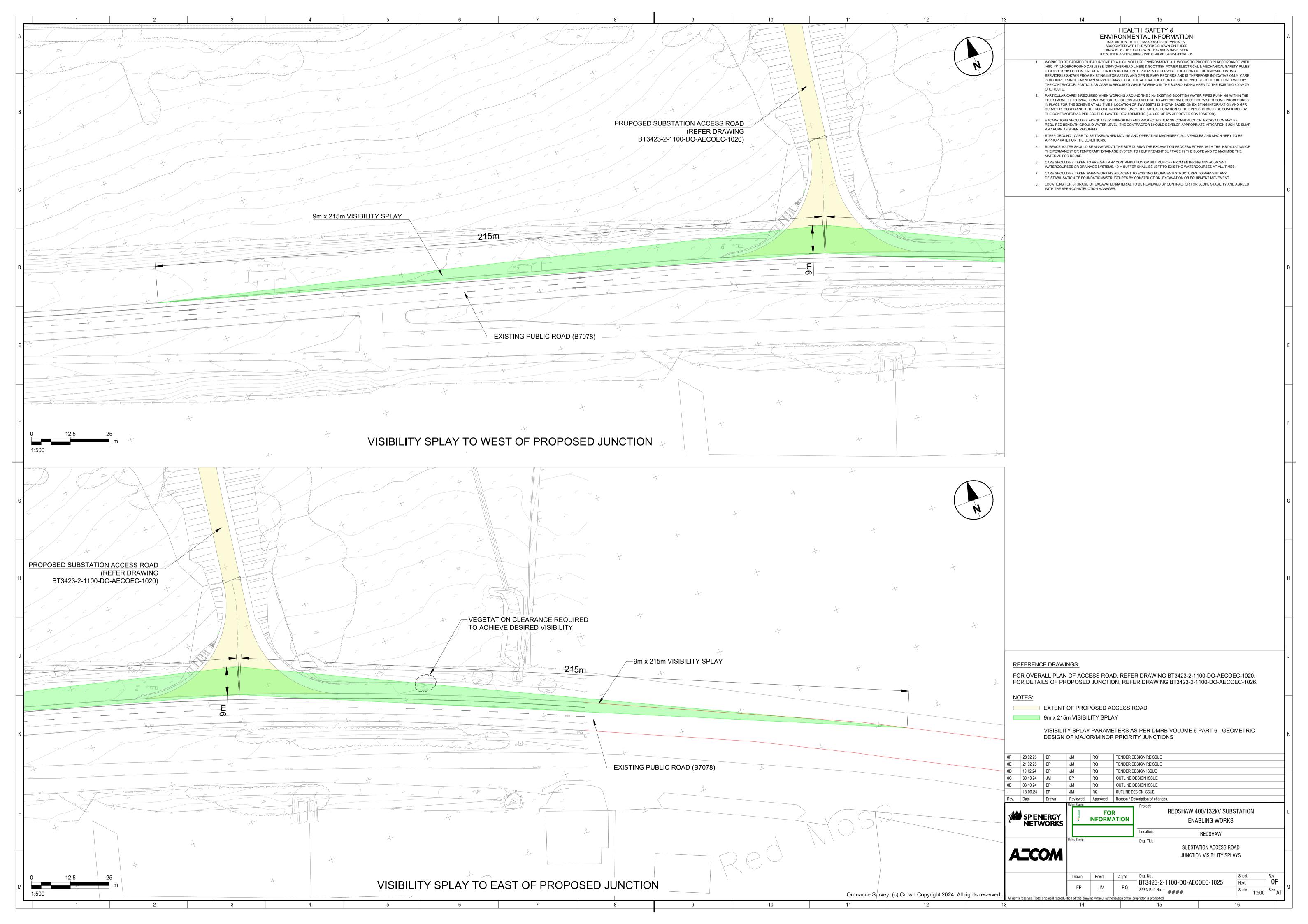
# A. Transportation Routes in vicinity of Redshaw 400kV Substation Site



# **B. Substation Access Road Layout Drawings**







# C. Road Safety Audit

Mott MacDonald 10 Temple Back Bristol BS1 6FL United Kingdom

T +44 (0)117 906 9500 mottmac.com

LUC / Scottish Power Energy Networks

# **LUC Redshaw Substation**

Road Safety Audit Stage 1

September 2024

### **Issue and Revision Record**

Revision	Date	Originator	Checker	Approver	Description
Α	05/09/2024	T Blaney	J. Dooley	J Dooley	
		Eleny			
					_

This document is issued for the party which commissioned it and for specific purposes connected with the above-captioned project only. It should not be relied upon by any other party or used for any other purpose.

**Document reference:** 100329055 | RDSHW | RSA1 | DR | 001 | A |

We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing any error or omission which is due to an error or omission in data supplied to us by other parties.

This document contains confidential information and proprietary intellectual property. It should not be shown to other parties without consent from us and from the party which commissioned it.

# **Contents**

1	Intro	oduction	1
	1.1	Project Description	2
	1.2	Audit History	3
	1.3	Departures from Standards	3
	1.4	Collision Data	3
	1.5	Report Structure	3
2	Item	s Raised during this Stage 1 Audit	4
	2.1	Problem 1.01	4
	2.2	Problem 1.02	5
	2.3	Problem 1.03	6
	2.4	Problem 1.04	7
3	Audi	it Team Statement	8
App	endice	es	g
A.	List	of Drawings & Documents Examined	10
B.	Loca	ation Plan – Redshaw Substation	11

### 1 Introduction

This Stage 1 Road Safety Audit Report covers the preliminary design for the provision of a new priority-controlled (uncontrolled T-junction form) vehicular access to a substation located on the northern side of the B7078 at Redshaw.

The audit was carried out at the request of LUC on behalf of the Scottish Power Energy Networks (Project Sponsor) and South Lanarkshire Council (Overseeing Organisation).

A Road Safety Audit Brief dated 16<sup>th</sup> July 2024 (*Doc. Ref: 100329055-RDSHW-RSA-S1-001-A*) was prepared on behalf of the Design Team by Malcolm Matheson (Mott MacDonald). The RSA Brief and composition of the Audit Team was formally approved by Mark Kirk (South Lanarkshire Council) on 05/09/2024.

The Road Safety Audit Team, as approved by the Overseeing Organisation, consisted of:

Tim Blaney BSc (Hons), CMILT, MCIHT, MSoRSA

(Certificate of Competency in Road Safety Audit)

Audit Team Leader, Mott MacDonald

John Dooley BA, FCILT, IEng MICE

(Certificate of Competency in Road Safety Audit)

Audit Team Member, Mott MacDonald

It is confirmed that this Stage 1 Road Safety Audit has been undertaken upon the completion of preliminary design for the scheme.

The Road Safety Audit took place jointly at the Glasgow and Bristol offices of Mott MacDonald between July and September 2024. The Road Safety Audit comprised examination of documentation and drawings listed in **Appendix A**.

The Audit Team visited the site of the proposed works together on Monday 22<sup>nd</sup> July 2024 at approximately 14:00 hrs. During the site visit the weather conditions were warm, overcast with occasional rain showers, and the road surface was damp.

Traffic flows through on the B7078 local to the proposed development site access location were light and free flowing. No pedestrian or cyclist activity was observed in the vicinity of the scheme.

The terms of reference for this Road Safety Audit are set out in the Transport Scotland departmental standard DMRB GG 119 Road Safety Audit. The Road Safety Audit Team has examined and reported only on the road safety implications of the scheme as presented and has not examined or verified the compliance of the designs to any other criteria.

The comments and suggestions for road safety improvements made in this report seek to address matters that might have an adverse effect on road safety in the context of the chosen design. No attempt has been made to comment on the justification of the scheme. Consequently, the auditors accept no responsibility for the design or construction of this scheme.

All the issues raised in this report require designer action. The comments contained in the report are based on safety related concerns and as such the design engineer will need to consider carefully how to respond to each of the issues. The Audit Response Report should be completed by the Design Team and retained on file for future reference.

An accompanying Key Plan indicating the location of identified safety related issues is provided in **Appendix B**.

### 1.1 Project Description

Taken from the RSA Brief:

The section of the B7078 which is adjacent to the site extends from a priority junction with A70 Ayr Road to roundabout with M74 Junction 13 (Abington Interchange). It provides access to farm properties, Andershaw Wind Farm, Kennoxhead Windfarm and Duneaton Quarry. The B7078 is a single carriageway road with a segregated cycleway located on the south side of the road.

The proposed access is located on the northern side of the carriageway directly adjacent to the Red Moss Truckstop access. A 2.4m x 215m visibility splay is possible (as shown on drawing 100329055-MMD-00-XX-SK-0001). The proposed access will be utilised by HGVs (average of c.10 HGVs/day, peak of c.20 HGVs/day) abnormal loads (likely to be c.20 in total) and general site traffic (cars/LGVs).

The designers subsequently verified that the traffic generation estimates set out above relate to the construction phase of the development and once the site is operational, traffic movements will be low and infrequent. The Audit Team has therefore considered the access arrangements for both during and post-construction.

This audit also considers an alternative location for the access potentially situated approximately 100m south-east of the proposed access.

Figure 1.1 indicates the location of the scheme in a local context.

Redshaw Substation

Wiston

Douglas

Giespin

Crawfordjohn

Abirgton

A7400

Figure 1.1: Local context plan

Source: From supplied Road Safety Audit brief based upon Ordnance Survey

### 1.2 Audit History

The Audit Brief states that no previous Road Safety Audits have been undertaken.

### 1.3 Departures from Standards

The Audit Brief does not identify any Departures from Standards.

### 1.4 Collision Data

No collision data was provided within the Audit Brief, however a review of data contained within crashmap.co.uk indicates that in the five-year period of 2019 to 2023, no collisions have occurred in the vicinity of the scheme.

### 1.5 Report Structure

- Section 2 reports this Stage 1 Road Safety Audit
- Section 3 comprises of Audit Team Statements
- Appendix A lists the documents and drawings reviewed as part of this audit
- Appendix B presents a key plan indicating the location identified road safety related issues

## 2 Items Raised during this Stage 1 Audit

This section details any road safety related issues identified during this Stage 1 Road Safety Audit associated with the scheme as presented in **Appendix A**.

### 2.1 **Problem 1.01**

Location: Proposed access

Summary: Unclear drainage arrangements may result in surface runoff onto B7078 carriageway

The steep ground to the north of the B7078 at the location of the proposed access rises away from the carriageway level. Though long sections have not been provided at this stage of the design, it appears reasonable to assume that the vehicular access will fall towards the B7078 carriageway, and it is unclear what drainage provisions will be. The Audit Team is concerned that surface water and associated debris may runoff onto the B7078 increasing the likelihood of loss of control type collisions, particularly during freezing conditions.

Figure 2.1: Location of proposed access.



#### Recommendation

It is recommended that appropriate drainage is provided to prevent surface water runoff entering the B7078 carriageway.

### 2.2 **Problem 1.02**

Location: Proposed access

Summary: Service cover located within extent of access bellmouth

An existing service cover is present within the extent of the proposed junction bellmouth. Should this remain within in this location, it may present a slip hazard to vehicles turning into the access increasing the likelihood of loss of control collisions. Furthermore, should access to the services be required, operatives may be at greater risk of being struck by passing vehicles even if traffic management is implemented.

Figure 2.2: Service cover within extent of proposed access bellmouth.



### Recommendation

It is recommended that the service cover is relocated away from the extent of the access bellmouth.

### 2.3 **Problem 1.03**

Location: Proposed access

Summary: Existing signs located within junction visibility splays

Visibility splays for the proposed access are shown as being kept clear of vegetation. However, it was noted that existing traffic signs are present within the visibility splays in both directions. Street furniture within a visibility splay may have a detrimental impact on inter-visibility increasing the likelihood of turning related collisions.

Figure 2.3: View north-west from proposed access location.



### Recommendation

It is recommended that any traffic signs situated within the access visibility splays are relocated.

### 2.4 **Problem 1.04**

Location: Alternative access location

Summary: Vegetation within likely visibility splays may lead to turning related collisions

An alternative access location is shown in the design drawings will comparatively (with the other access location) require less earthworks during construction. Whilst no visibility splays are shown for the alternative access, it was the Audit Team's opinion that suitable visibility splays can be achieved. However, immediately to the north-west of the alternative access location, a small tree is present that potentially impedes visibility to the north-west. Failure to suitably clear vegetation from visibility splays may result in motorists inappropriately turning out of the access into the path of approaching vehicles increasing the risk of turning related collisions.

Figure 2.4: View north-west from alternative access location.



#### Recommendation

It is recommended that should the alternative access location be progressed, that vegetation clearance is undertaken to provide unhindered access visibility splays.

### 3 Audit Team Statement

We certify that this Combined Stage 1/2 Road Safety Audit has been carried out in accordance with Transport Scotland Departmental Standard GG 119.

**Road Safety Audit Team Leader** 

John Dooley BA, FCILT, IEng MICE

(RSA Certificate of Competency holder, July 2019)

Signed:

Date: 05th September 2024

Project Principal Mott MacDonald, Glasgow, UK

**Road Safety Audit Team Member** 

**T J Blaney** BSc (Hons), CMILT, MCIHT, MSoRSA (Certificate of Competency in Road Safety Audit, July 2012)

Signed:

Date: 05th September 2024

Principal Road Safety Engineer Mott MacDonald, Bristol, UK

# **Appendices**

A.	List of Drawings & Documents Examined	10
B.	Location Plan – Redshaw Substation	11

# A. List of Drawings & Documents Examined

### **Table A.1: Drawings**

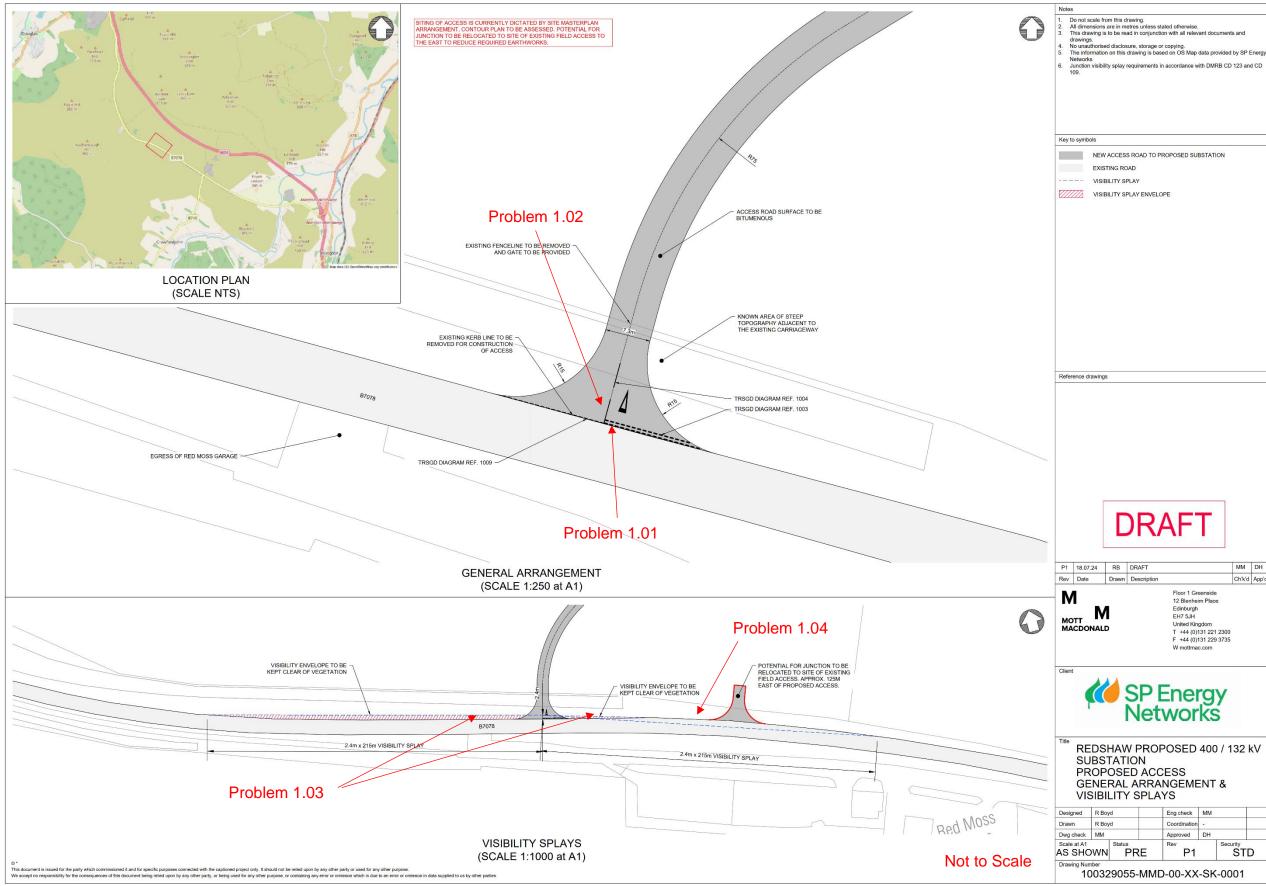
Drawing Number	Rev	Drawing Title		
100329055-MMD-00-XX-SK-0001	P1	Proposed access general arrangements and visibility splays		
Source: Mott MacDonald				

**Table A.2: Documents** 

Document Number	Rev	Document Title
100329055-RDSHW-RSA-S1-001	Α	Stage 1 Road Safety Audit Brief

Source: Mott MacDonald

# **B.** Location Plan – Redshaw Substation



### **Road Safety Audit Brief**



This Road Safety Audit (RSA) Brief Template has been produced as a guide to those preparing an RSA Brief.

All RSAs for Motorway and Trunk Road Network schemes must be undertaken in accordance with the **National Highways / Transport Scotland General Principles and Scheme Governance**, <u>DMRB GG 119</u> Road Safety Audit. This RSA Brief Template is based on the example set out in Appendix C of DMRB GG 119.

Project Summary	
Date:	16 <sup>th</sup> July 2024
Document reference:	100329055-RDSHW-RSA-S1-001-A
Prepared by:	Malcolm Matheson
On behalf of:	Mott MacDonald
Authorisation Sheet	
Project:	LUC Redshaw SS
Report title:	Road Safety Audit Stage 1 – Brief
Prepared by:	
Name:	Malcolm Matheson
Signed:	M Matheson
Organisation:	Mott MacDonald
Date:	16 <sup>th</sup> July 2024
I approve the RSA Brief and inst	ruct the RSA to take place:
Name:	MARK KIRK.
Signed:	
Organisation:	South Lanarkshire Council
Date:	5TH SEPTEMBER 2024

General Details						
Scheme name and road number:	Name: LUC Redshaw SS Roads: B7078					
Type of scheme:	Access junction (permanent) to facilitate construction and operation of proposed Redshaw Substation.					
Stage of RSA required ☑	Stage 1 Completion of Preliminary Design  Combined Stage 1/2 No Prelim Design - progressed straight to Detailed Design					
(Please indicate one – additional stages will require another RSA brief)	Stage 2 Completion of Detailed Design    Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion of Detailed Design   Completion Of Design   Completion O					
	Stage 3					
Overseeing Organisation contact details:	Robert Lawson South Lanarkshire Council  Community and Enterprise Resources South Lanarkshire Council South Vennel Lanark ML11 7JT					
Design Organisation contact details:	Malcolm Matheson Mott MacDonald  80 George Street Edinburgh EH2 3BU United Kingdom					
Police contact details: Required for Stage 3 Road Safety Audit	N/A					
Road Safety Audit Team Member	ership (CVs available on request)					
RSA Team Leader	John Dooley					
RSA Team Member(s)	Tim Blaney					
Specialist Advisor (Optional)	N/A					
Observer (Optional)	N/A					
Terms of Reference						
this Audit are GG119, this Audit E Advice Notes. The Audit Team ar	A) in accordance with GG119 is required. The terms of reference for Brief and all relevant Department for Transport Standards and re reminded that the Audit only considers road safety matters and is sign conforms to Standard, nor an audit of the existing network.					

### **Scheme Details**

### **General Description**

### Brief description of project

The project is a proposed new substation located in proximity to the existing 400kV Scotland to England interconnector (ZV route) at Redshaw. The overhead line (OHL) route from the proposed Glenmuckloch to Redshaw Reinforcement Project OHL will connect from the proposed Glenmuckloch substation near Kirkconnel, to the proposed new substation at Redshaw.

The (permanent) substation access will form a priority junction with the B7078 on the southern corner of the site. The access has been designed to accommodate general site traffic, HGVs and abnormal load deliveries. The access has been designed to accommodate two-way traffic movements.

### Extents of the RSA

The RSA will focus on the access arrangements associated with the substation. Permanent access is required to facilitate construction and operation of the site. The RSA will also consider the impact at the access during both the construction and operational stages.

### Design standards applied to the scheme design

The Design Manual for Roads and Bridges (DMRB).

SCOT National Roads Development Guide

**Designing Streets** 

Traffic Signs Regulations and General Directions (2016).

Traffic Signs Manual Chapter 3 (2019), Chapter 4 (2018), Chapter 5 (2018).

### Design speeds

Design speeds will be relative to locally posted speed limits.

### Speed limits

Speed limits are as existing (National Speed Limit).

### Existing traffic flows/queues

No survey count data available

### Forecast traffic flows

No additional information

### Pedestrian, cyclist, and equestrian desire lines

No additional information

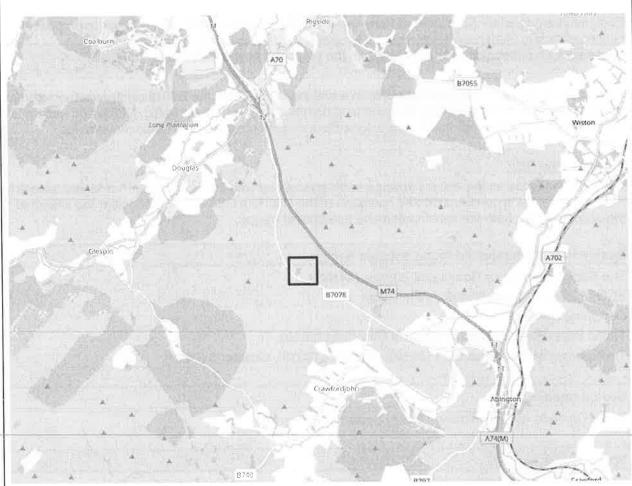
### **Environmental constraints**

No additional information

### Locality

### **Description of locality**

The site is located south of Douglas, South Lanarkshire as shown in the figure below:



The site is situated in a rural setting adjacent to the B7078 and in close proximity to the M74 motorway which is to the north.

### General description

The section of the B7078 which is adjacent to the site extends from a priority junction with A70 Ayr Road to roundabout with M74 Junction 13 (Abington Interchange). It provides access to farm properties, Andershaw Wind Farm, Kennoxhead Windfarm and Duneaton Quarry. The B7078 is a single carriageway road with a segregated cycleway located on the south side of the road.

The proposed access is located on the northern side of the carriageway directly adjacent to the Red Moss Truckstop access. A 2.4m x 215m visibility splay is possible (as shown on drawing 100329055-MMD-00-XX-SK-0001). The proposed access will be utilised by HGVs (average of c.10 HGVs/day, peak of c.20 HGVs/day) abnormal loads (likely to be c.20 in total) and general site traffic (cars/LGVs).

### Relevant factors which may affect road safety

The site is directly adjacent to the live carriageway which will be fully operational at the time of the Audit.

### **Analysis**

### Collision data analysis

No collision data provided.

### **Departures from standards**

N/A

Previous road safety audit stage reports, road safety audit response reports and evidence of agreed actions

N/A

### Strategic decisions

Access location dictated by existing site constraints as well as construction stage requirements to enable safe and efficient movement of traffic to / from the site.

### List of included documents and drawings

**Documents** (e.g., previous RSA reports; design responses; departures; road traffic collision data; walking, cycling and horse-riding assessment and reviews. This could include any relevant operational data such as damage-only collision data or incident logs)

Document Reference	Rev	Document Title (and organisation)	Date
N/A			

### **Drawings**

Drawing Reference	Rev	Drawing Title	Date completed
100329055-MMD-00-XX-SK-0001	P1	REDSHAW PROPOSED 400 / 132 KV SUBSTATION	July 2024
		PROPOSED ACCESS GENERAL ARRANGMENT & VISIBILITY SPLAYS	

NB: All Documents and Drawings provided to the Audit Team should be in PDF. Large packages of drawings (>20 sheets) should also be provided as printed sheets, at A3 size. Please contact the RSA Team if you wish to discuss your requirements.

Checklist $oxedsymbol{\boxtimes}$ Check that you have provided the following supporting information, where appropriate						
Site location plan	V	Scale layout plans	V			
Departures and relaxations from standards		Construction/ typical details	V			
Previous RSA reports		Previous RSA response reports and evidence of agreed actions				
Collision data and collision data analysis		Road traffic collision plot				
Traffic signal staging		Traffic counts				
Speed surveys		Pedestrian, cyclist and horse-riding desire lines and volumes				
Walking, cycling and horse-riding assessment and reviews		Items outside the scope of the RSA/ strategic decisions				
Other factors that may impact on road safety		Design speeds/ speed limits	V			
Design standards used	V	Adjacent land uses				

#### Mott MacDonald Disclaimer:

This document is issued for the party which commissioned it and for specific purposes connected with the above-captioned project only, lt should not be relied upon by any other party or used for any other purpose.

We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing any error or omission which is due to an error or omission in data supplied to us by other parties.

This document contains confidential information and proprietary intellectual property. It should not be shown to other parties without consent from us and from the party which commissioned it.