Sirius Planning Ltd

Proposed Solar Farm and BESS Main Road, Kelham, Newark-on-Trent

Construction Traffic Management Plan













Control Sheet

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Acknowledgements

The 'rowmaps.com' website has been used to inform this report on the presence of public rights of way in the vicinity of the site.



Contents

1.	Introduction5
2.	The Site and Surroundings6
3.	The Proposed Development
4.	Construction Operations
5.	Operational and Decommissioning Phases
6.	Summary and Conclusions
Lis	et of Tables
Tab	le 1 – Indicative Vehicle Deliveries during Construction Phase
Lis	et of Figures
Figu	ure 1 – Site layout and extents6
Figu	ure 2 – Extract of rowmaps.com7
Figu	ure 3 – Study Area Google Maps8
Lis	et of Appendices
App	pendix A
٧	'ia East Midlands – Accident Reports
٧	ia East Midlands – Severity Report
App	pendix B
S	ite Layout Plan
Р	roposed Set Down and Parking Areas
Т	ranslocated Hedge Drawing
App	pendix C
D	Prawing 153626-001E - Proposed Access Design
D	Prawing 153626-002D - Visibility Splays from Proposed Access
D	Prawing 153626-006B - 18.5m Articulated Vehicle Swept Path Analysis
D	Prawing 153626-008 - Vehicle Routes
D	Prawing 153626-010 - Extent of Condition Survey
D	Prawing 153626-011 – Proposed Overflow Parking Area
D	Drawing 153626-012 – Reduced Set Down Area



1. Introduction

- 1.1 Sanderson Associates Consulting Engineers has been appointed by Sirius Planning Ltd to prepare this Construction Traffic Method Plan (CTMP), to support the planning application for a solar farm and Battery Energy Storage System (BESS) on land off Main Street, Kelham, Newark-on-Trent.
- 1.2 This CTMP has been produced to set out the current and proposed access arrangements to the application site, the anticipated construction programme, construction vehicle numbers and routing of deliveries, construction worker numbers and the proposed hours of construction.
- 1.3 This CTMP should be read in conjunction with the Transport Statement prepared by Sanderson Associates Consulting Engineers.
- 1.4 This CTMP has been prepared following a meeting with Nottinghamshire County Council (NCC) on Friday 10 May 2024. Requirements for the construction period together with the potential traffic impact were discussed.
- 1.5 It should be noted that a more detailed CTMP will be submitted following the granting of planning permission, with specific details to be addressed in the detailed submission, which have only been outlined in this document at this stage.

1.6 Development Overview

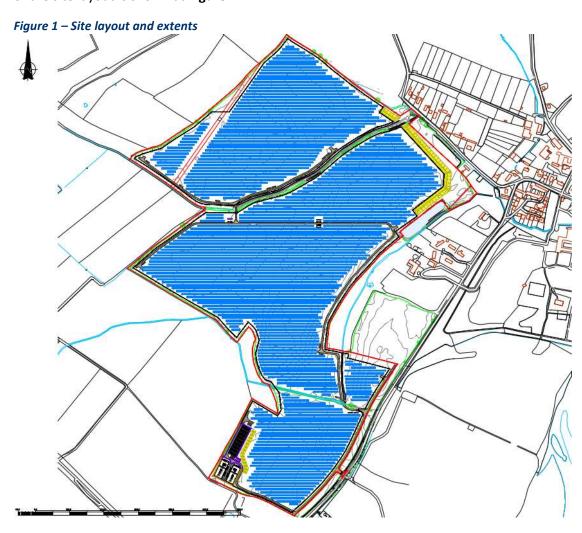
- 1.6.1 It is proposed to construct a 49.9MW solar farm and a 50MW battery energy storage system (BESS), on land to the West of Main Road, Kelham, with the proposed access being from the A617.
- 1.6.2 The proposed solar farm and BESS development compound covers an area of circa 65ha, although the planning application boundary (cable runs etc.) measures c.71ha.



2. The Site and Surroundings

2.1 Introduction

2.1.1 The application site is currently maintained agricultural land within the open countryside, between the villages of Kelham (to the east) and Averham (to the south). The site is located the west of the A617 principal road, which links Newark-on-Trent to Chesterfield. An extract of the site layout is shown at **Figure 1**.



2.1.2 The site is bounded by:

→ North: Agricultural fields and Broadgate Lane and broadleaved woodland

→ East Main Road, The Renaissance at Kelham Hall, St. Wilfred's Church and the River

Trent

→ South: Agricultural fields and Averham

→ West Agricultural fields

2.2 Designations

2.2.1 **Figure 2** is an extract from the 'rowmaps.com' website, a link to which is provided on the Nottinghamshire County Council website.







- 2.2.2 This shows that a footpath crosses the site. In addition, a permissive bridleway is proposed around the perimeter of the site. During both construction and operational periods of the development, the Public Rights of Way within the development site will be protected by fencing. This will prevent vehicle access across the footpaths in question and will provide a safe area for users.
- 2.2.3 During the construction phase, the point at which vehicles will need to cross the PRoW to access the northern part of the site will be manned by an operative acting as a Banksman. Vehicles will be required to wait with priority given to those using the PRoW. Outside operational hours, gates will be placed across the vehicle route. During the operational phase, the gates will remain in place, vehicular access will only be required by a light vehicle approximately once a month and the PRoW will be crossed with great care.
- 2.2.4 The protective fencing and gates will be erected prior to the commencement of any works to construct the solar farm equipment or the BESS and will be inspected on a regular basis and maintained throughout the lifetime of the development.

2.3 Local Highway Network

- 2.3.1 The site access is located on the A617. The A617 is subject to a 50mph speed limit across the site frontage. A footway is present on the site side of the carriageway, measuring approximately 1.5m in width. There is also street lighting present along the A617.
- 2.3.2 The carriageway is approximately 7.0m in width and connects the site to Kelham in the north east and Averham to the south.



2.4 Local Highway Safety

2.4.1 In line with formal consultation responses from NCC a revised assessment of personal injury accidents on the local highway network in the vicinity of the application site, which would be used by construction traffic, has been undertaken. This revised assessment is based on STATS19 data obtained from Via East Midlands (ViaEM) and covers the most recent five-year period available (1/1/2019 to 31/12/2023). Figure 3, below, shows the extent of the study area which has been extended from the original assessment contained within the Transport Statement. A detailed review of the recorded personal injury accidents is provided in the following paragraphs and the data obtained from NCC is attached at Appendix A.



- 2.4.2 In the last 5 year period there have been a total of eleven (11) incidents recorded within the study area. Six (6) of these have been categorised as being slight in severity; four (4) categorised as being serious and one (1) recorded as a fatal incident. The Severity Plot Diagram attached at **Appendix A** demonstrates the location and severity of each incident and a summary of each is provided below and overleaf:-
 - → Incident reference 2B177420 took place on Friday 18 December 2020 at 06:19 on the A617 to the south east of the junction with Staythorpe Lane. The weather is recorded as rain and the road surface as being wet. As vehicle 1 (car) was travelling north-west to south-east and approaching a left hand bend the car left the carriageway and collided



- with a wall or fence. There are no other contributory factors provided and the incident was classified as slight in severity.
- → Incident reference 2B030323 took place on Tuesday 21 February 2023 at 08:40 on the A617 at the junction of Staythorpe Lane. The weather conditions are recorded as fine and dry. Vehicle 1 (a pedal cycle) was travelling north east to south west along the A617 when the incident occurred. From the contributory factors recorded it appears that a dislodged load was the cause of the incident which was classified as serious.
- → Incident reference 2B186923 took place on 28 November 2023 at 06:15 on the A617 along the site frontage. The weather conditions are recorded as fine with the road surface as icy. Vehicle 1 (car) was travelling north-east to south-west when it left the road and overturned before landing in a ditch. From the contributory factors recorded it would appear that there was mud on the road which, taking into account the already icy road surface, may have influenced the incident which was classified as serious.
- → Incident reference 2B085223 took place on Tuesday 11 July 2023 at 07:05 on the A617 along the site frontage. The weather conditions were fine and the road surface dry. Two vehicles (both cars) were involved in the incident which was classified as fatal. Vehicle 1 was travelling south-west to north-east and Vehicle 2 was travelling north-east to south-west i.e. in opposing directions. The incident records both cars impacted at the front which indicates a head-on collision, however, no further contributory factors are recorded.
- → Incident reference 2B150919 took place on Friday 30 August 2019 at 13:36 on the A617 to the north of the development site. The weather conditions are recorded as fine and the road surface dry. Vehicle 1 (car) was travelling north-east to south-west when it left the carriageway on its nearside before colliding with a wall or fence. No contributory factors are provided and the incident was <u>classified as serious</u>.
- → Incident reference 2B012520 took place on Sunday 9 February 2020 at 07:49 on the A617 between the two bends in the road to the north of the development site. The weather conditions are recorded as fine but windy and the road surface as wet. Vehicle 1 (car) was travelling south-east to north-west when it skidded and left the carriageway on its nearside. From the contributory factors provided it would appear that there was mud on the road at the time of the incident which was classified as serious. It is, however, noted that the accident details state the speed limit on the A617 at this location as 60mph. this is incorrect. The speed limit between the two bends on the A617 is 30mph.
- → Incident 2B036623 on Friday 17 March 2023 at 15:00 on the A617 east of the River Trent. The weather conditions are recorded as fine with the road surface dry. Two vehicles (both cars) were involved in the incident which was classified as slight. Both vehicles were traveling south to north Vehicle 2 in front of Vehicle 1 when it would appear that a rearend shunt took place. No contributory factors are provided.
- → Incident 2B018623 on Tuesday 7 February 2023 at 09:51 on the A617 east of the River Trent. The weather conditions are recorded as fine with the road surface wet. Two vehicles (both cars) were involved in the incident which was classified as slight. Both vehicles were traveling south to north Vehicle 2 in front of Vehicle 1 when it would appear

- 9 -



- that a rear-end shunt took place. In terms of recorded contributory factors it would appear that an animal in the road may have caused one of the drivers to brake sharply.
- → Incident 2B179323 on Wednesday 15 November 2023 at 08:04 on the A617 east of the River Trent. The weather conditions are recorded as fine with the road surface wet. Three vehicles (all cars) were involved in the incident which was classified as slight. All three vehicles were traveling south to north Vehicle 2 in front of Vehicle 2 with Vehicle 1 at the rear when it would appear that a rear-end shunt took place. No contributory factors are provided.
- → Incident reference 2B014349 took place on Sunday 3 February 2019 at 12:54 on the A617 to the east of the River Trent. The weather conditions are recorded as fine and the road surface as dry. Vehicle 1 (car) was travelling north to south-east when it left the carriageway in its nearside and overturned before colliding with a tree. No contributory factors are provided.
- → Incident reference 2B127919 took place on Wednesday 10 July 2019 at 16:05 on the A617 to the east of the River Trent. Vehicle 1 (motorcycle) was travelling south-east to northwest when it collided with an object in the road. The incident was classified as slight.
- 2.4.3 The incidents can be summarised as follows: 5x single vehicle left the carriageway, 3x rear shunt, 1x head-on, 2x collided with unknown object. One of these incidents involved a pedal cycle, one a motorcycle and the rest were cars, no incidents involved HGVs.
- 2.4.4 The five incidents where a single car left the carriageway all occurred in different locations within the study area suggesting that they were a result of drivers not driving with due care and attention to the road and driving conditions.
- 2.4.5 The three rear shunt incidents all occurred in a similar location on approach to Kelham Bridge from the south. This suggests that these incidents were as a result of drivers not driving with due care and attention to vehicles slowing for the change in speed limit (from 50mph to 30mph) and bend ahead.
- 2.4.6 The two incidents involving a pedal cycle and motorcycle colliding with unknown objects can only be assumed to be freak occurrences and they happened in different locations.
- 2.4.7 The head-on collision that resulted in a fatality is unfortunate however there is no information within the report provided that suggests why this occurred and it took place on a straight section of road.
- 2.4.8 In summary, it is not considered that the road traffic incident review has highlighted any deficiencies in the highway network, with the majority of incidents arising due to drivers not exercising due care and attention. In relation to NPPF paragraph 117, it is not considered that the development proposals would have an unacceptable impact on highway safety.



- 2.4.9 Notwithstanding the outcome of the above personal injury accident analysis and the previous assessment within the Transport Statement, it is recognised that the construction phase of the development will increase the total number of vehicles on the local highway network and in particular the number of HGVs. With this in mind, a detailed Highway Safety Signage Strategy will be provided as part of the detailed CTMP. This will include a Temporary Signage Strategy which will be implemented along the routes to the development areas, warning other road users, cyclists and pedestrians of the presence of construction vehicles. This will be agreed in consultation with the Local Planning and Highway Authority.
- 2.4.10 In addition to the proposed signage strategies, drivers bringing materials to the site will be given specific instructions on which routes they are to use, in accordance with the agreed vehicle routing plans. Any deviation away from these agreed routes will be dealt with by the contractor.



3. The Proposed Development

3.1 Outline of the Proposal

- 3.1.1 The proposed solar farm and BESS development compound covers an area of circa 65ha (although the planning application boundary (cable runs etc.) measure c.71ha) and will comprise of the following, with a site layout plan (**Drawing HC1002/05/03 R2**) attached at **Appendix B.**
 - → Photovoltaic (PV) Panels arranged in rows in an east-west alignment and angled between 10° and 35° to the horizontal and orientate south. Each panel would measure approximately 0.8m-1.2m wide and 1.6m-2.0m in length. Proposed ratio of between 40% to 60% ground cover;
 - → Mounting frames matt finished small section metal structure; Maximum height of 2m above ground level. Lowest part of the panel would measure approximately 0.8-metre above ground level. Rows of panels would be set to between 4-metres and 6-metres apart to avoid overshadowing and allow for scheduled maintenance;
 - → Battery Energy Storage System Compound Located towards the southern end of the site, measuring approximately 1.0 hectare. Batteries accommodated in steel containers;
 - → Inverters (accommodated on the mounting frames) and transformers (housed in prefabricated containers) and associated cabling (largely below ground); Transformer and substations typically 3-metres in height.
 - → Two 132kV Distribution Network operator (DNO) substations, DNO meter point, customer substation and system The proposed point of connection would be Staythorpe Substation, which is approximately 1.4km to the south of the proposal site. A below ground cable would connect the facility to the point of connection;
 - → Scheme of landscaping and biodiversity enhancement;
 - → Deer fencing (approximately 2m high)
 - → Infra-red CCTV (CCTV cameras would operate using motion sensors and be positioned inward only to ensure privacy to neighbouring land and property)
 - → Temporary set down areas towards the southern part of the site near existing field/ proposed access to accommodate deliveries of materials and equipment during construction phase and staff parking;
 - → Internal service roads approximately 4m wide, comprised of compacted crushed stone

3.2 Temporary Works

3.2.1 An initial temporary set down area will be created within the site during the construction phase of the development to allow for equipment to be loaded/unloaded.



- 3.2.2 A plan showing the initial temporary set down area is included at **Appendix B**, which indicates the areas which will be designated for material loading/unloading and those areas which will be dedicated for parking operatives' vehicles. It demonstrates that there is adequate parking provided to accommodate the expected number of vehicles requiring parking each day. An over flow parking area for 30 plus vehicles is identified on Drawing 153626-011 at Appendix C which will ensure that there will not be an overspill of parking onto the adjacent highway network at any time during the construction period.
- 3.2.3 The final stages of the temporary works will include for the a reduced set down area, which will allow for the final solar panels to be installed in the area that the initial compound area will be located. The reduced set down area, which is as indicated on Drawing 153626-012 at Appendix C, will cater for a reduced number of cabins and 25m turning circle for delivery vehicles. This arrangement will also provide a total of 28 construction staff parking spaces. It is considered that this level of parking will be adequate for the reduced numbers of staff on site and parking will not overspill onto the adjacent highway network.
- 3.2.4 The existing field access that will be used to access the site is to be improved, as shown on **Drawing 153626-001E** included at **Appendix C**, to facilitate the required vehicles. Appropriate signage will be provided to warn road users, cyclists and pedestrians of the presence of construction vehicles.
- 3.2.5 It is expected that the access improvement works, Enabling Works, will be subject to the requirements of S278 of the Highways Act 1980 and as such Temporary Traffic Management (TTM) will be required during the construction works within the adopted highway. It is likely that this TTM will take the form of temporary traffic signals to enable a safe working area to be created. A detailed scheme of associated signage and cones/barriers to control the flow of vehicles through the roadworks will be agreed with the Highway Authority and provided in accordance with Traffic Signs Regulation & General Directions 2019 and Chapter 8 Guidelines.
- 3.2.6 **Drawing 153626-006B**, included at **Appendix C**, demonstrates that an 18.5m articulated vehicle is able to access the setting down area, manoeuvre and leave the site in a forward gear, whilst not needing to cross into an opposing traffic lane.
- 3.2.7 The set down areas will be secured and will have temporary security lighting which will be sympathetically designed to suit the rural context of the site.
- 3.2.8 The set down compound will incorporate the storage of equipment and materials. Temporary portacabins are required for welfare facilities such as offices, toilets, canteen and storage and each will be between 6-8.5m in length and up to 3m in height.



3.3 Proposed Vehicle Routing and Access to the Site

- 3.3.1 As the site access is located on the A617, deliveries and construction staff will ultimately operate via Main Road (A617). **Drawing 153626-008**, attached at **Appendix C**, shows the proposed vehicle routes. The primary routes to the site are via "A" roads which form part of the Strategic Road Network (A1) and Principal Road Network and as such are designed for use by all vehicle types. It is considered that the majority of vehicles will take access from the A1 to the east, utilising the A46 and then A617. Vehicles accessing the site to bring in stone etc. will have the opportunity to access the site from the west along the A617, if materials are sourced from the surrounding area.
- 3.3.2 The A617 is subjected to a 50mph speed limit across the site frontage. A footway is present on the site side of the carriageway, measuring approximately 1.5m in width. There is also street lighting present along the A617.
- 3.3.3 The carriageway is approximately 7.0m in width and connects the site to Kelham in the north east and Averham to the south.
- 3.3.4 Drawing 153626-002D, attached at Appendix C, shows the proposed access and demonstrates visibility splays of 2.4m by 160m in both directions which is in accordance with DMRB for a the 50mph posted speed limit. It is proposed that the existing hedgerow along the site frontage to the A617 will be translocated, as shown on Drawing HC1002/05/29 R2 included at Appendix B, to provide unrestricted visibility for emerging vehicles. In addition, hedgerows will be maintained to keep 1m clearance to the visibility splay lines to allow for future growth.
- 3.3.5 Gates to secure the site are proposed to be set back from the carriageway which will allow an 18.5m articulated vehicle to wait clear of the carriageway. However, the most common vehicle to access the site would likely be a 16.5m articulated vehicle on a daily basis. If any abnormal loads with escort vehicles are required to access the site these will be planned in advance and therefore there will be an operative on site to receive the delivery having already opened the gate to allow access.
- 3.3.6 The field access further north on the A617 falls outside the planning application red line boundary and will continue to serve the field that is not within the application site. It is understood that National Highways intend to use the Redhouse Field access as part of the proposed flood compensation engineering works. As such it would be inappropriate for the access to be stopped up as part of the Kelham Solar Farm and BESS application whilst the A46 Newark Bypass application is being determined."
- 3.3.7 It is not considered that the retention of this field access would cause confusion for those accessing the application site as the improved access will be clearly visible and all haulage companies involved in the scheme will be provided with logistics instructions.



- 3.3.8 The access to the site from Broadgate Lane cannot be closed to vehicle traffic as there are access rights in place in connection with the drains within the site. Access is, therefore, required by the Internal Drainage Board (IDB) to inspect and maintain their asset which cannot be restricted. It also forms part of a Public Right of Way, as shown in Figure 2.
- 3.3.9 It should, however, be noted that unrestricted access will not be available to the site from Broadgate Lane and that measures will be implemented to control access from this location. Such measures include:
 - → Providing information on site access and parking within the constructor induction process
 - → Site management carrying out inspections to prevent off-site parking



4. Construction Operations

4.1 Introduction

4.1.1 The main traffic and transport related effects will be associated with the movement of HGVs to and from the site during the construction phase of the development. This section of the CTMP sets out the predicted impacts resulting from construction traffic related to the proposed development.

4.2 Access Arrangements

- 4.2.1 The site is currently accessed from Main Road (A617) to the south east, via an existing agricultural access. The application site will utilise this existing access point, which will be improved to fall in line with DMRB, opposite the access road to Rectory Farm. The proposed access off the A617 will be used during the construction phase of the solar farm and BESS. Attached at **Appendix C**, is Drawing 153626-001E which illustrates the proposed access design from Main Road and the associated vehicle tracking of an 18.5m maximum legal length HGV entering and egressing the site.
- 4.2.2 Within the site, set down areas will be constructed from compacted crushed stone. Top and subsoils will be removed prior to creation of the set down areas. Internal service roads will be similarly constructed to allow vehicular access within the site.
- 4.2.3 The majority of equipment and materials required for the construction of a solar farm is modular. However, some items are delivered to site pre-assembled such as transformers, substations and switchgear cabins. These items can be delivered singularly on a 10m rigid HGV. If larger lifting equipment is required to unload these items, then temporary modular crane towers will be constructed on site as necessary.
- 4.2.4 Once operational, the proposed development will be unmanned and traffic generation will be minimal primarily for occasional maintenance and inspection visits which would generally take place once a month on average.
- 4.2.5 The significantly improved access will be more visible to road users and will have a negligible level of activity which is considered to be comparable to, if not lower than, the existing agricultural use of the land. The proposals will also remove the need for slow moving agricultural vehicles accessing and egressing the site on a regular basis.
- 4.2.6 Main Road is accessed by Cattle Market Roundabout, located approximately 2.5km to the east. Main Road is a single carriageway road, subject to a 50mph speed limit and provides access between Kelham, Averham and other villages to the west. It is considered to be of sufficient standard to fulfil the access requirements of the development proposals throughout the construction and operational periods.



4.3 Hours of Operation

4.3.1 It is proposed that during the construction phase of the development, when there is likely to be the most impact on the surrounding highway network, the site would have the following hours of operation:

→ Monday to Friday 08:00 to 18:00
 → Saturdays 08:00 to 16:00

4.3.2 Deliveries will be carried out within the hours above. Under exceptional circumstances, both working and deliveries outside of these hours may be required. In these cases, prior permission will be sought from Newark and Sherwood District Council.

4.4 Staff Movements

- 4.4.1 It is estimated the 50 members of staff will be on site during the construction period, depending on the phases of the construction schedule. It is envisaged that staff trips will be made by mini-buses and/or transit vans with a 'crew cab' with an expected minimum capacity of 6 persons. All vehicle parking will be provided within the temporary construction compound, there will be no parking on the public highway.
- 4.4.2 The anticipated number of staff movements per day is set out in further detail in this section.
- 4.4.3 The contractor will aim to manage staff movements at the start/end of shifts to ensure that all vehicles associated with the site are not released onto the local highway network at the same time. This could involve releasing a small number of vehicles in five-minute intervals and asking for vehicles to arrive in five-minute intervals at the start of the day.

4.5 Proposed Vehicle Movements

- 4.5.1 The construction of the proposed solar farm and BESS is expected to last around 6 to 12 months, however, the majority of vehicle movements, associated with the arrival and departure of site staff and the delivery of equipment and construction materials, will occur within the first six months. The remaining 6 months will be commissioning and 'snagging' works which typically do not generate HGV movements
- 4.5.2 Following construction, as set out previously, it is expected that the only vehicle movements will be concerned with maintenance of the site.
- 4.5.3 **Table 1**, below, shows the expected vehicle movements during the construction phase. This is subject to change when a contractor is appointed, and a construction phasing plan and timetable is drawn up.

- 17 -



Table 1 – Indicative Vehicle Deliveries during Construction Phase

Construction Activity	Month							
Construction Activity	1	2	3	4	5	6	Total	
Delivery of plant, equipment and materials (Assumes 6,800m³ of stone. 1.4t per cubic m, at 20t per load)	120	120	160	60	40	40	540	
Erection of security fencing and construction compound	30	30	30				90	
Cabling on site		15		15			30	
Delivery of inverters, transformer & control equipment, Water Tank 285 inverters over 3 shipping containers, 16 transformers and 5 spares/switch room cabins			10	10	10		30	
Delivery of frames & support posts 2,317 frames to be imported to site. Approx 30 frames per delivery	20	20	20	20			80	
Delivery of PV panels 1 cluster per 2 deliveries	16	25	25	25	25		116	
Substations				20		20	40	
BESS Transformers and Inverters 1 cluster per 2 deliveries				19	9		18	
Delivery of battery units 1 cluster per 2 deliveries				18	18		36	
Removal of plant and equipment						45	45	
Total	186	210	245	177	102	105	1,025	

- 4.5.4 It is anticipated that the construction phase will generate approximately 1,025 deliveries to site, or 2,050 individual movements (in and out). The third month will see the highest number of deliveries to site at 245.
- 4.5.5 Assuming a 6-month construction period and a 6-day working week (156 days total) on average this equates to approximately 7 deliveries a day. Although the number of deliveries on average appears low, this is because the deliveries are to be phased to reflect when materials and equipment are needed (based on a "just in time" approach), to avoid having to store materials and equipment on site for unnecessarily long periods.
- 4.5.6 The majority of deliveries will be made during the beginning of construction works as site preparation works are carried out, and towards the end when the electrical infrastructure and equipment is delivered.
- 4.5.7 HGV movements will be generated through the import of fencing, cabling, crushed stone for the tracks and passing places, inverters, transformers, control cabins, battery containers and customer substation. The largest vehicles across the site will be a 16.6m articulated lorry. The design of the internal roads allows sufficient space for these vehicles to manoeuvre.



- 4.5.8 In addition to the expected number of HGVs, there will be staff working on the site, who will most likely arrive before the operating hours of the site (before 08:00) and depart after the site closes each day (after 18:00). As set out previously, there is expected to be up 50 staff on site at the peak of construction. Workers will access the site using minibuses/vans containing a 'crew cab' with an expected minimum capacity of 6 persons.
- 4.5.9 Given the above, there could be up to 9 vehicles arriving to the site in a morning and 9 vehicles departing in an evening. Parking, totalling 20 spaces, is provided within the set down area to accommodate these vehicles.
- 4.5.10 Therefore, it is estimated that in the hour preceding the opening of the site each day there would be approximately 9 transit vans arriving at the site. There would be corresponding departure trips in the hour following the closure of the site each day. Given the highly trafficked nature of the A617, the contribution to existing traffic flows from the proposal will be negligible.
- 4.5.11 It is recognised that the construction phase of the development will increase the total number of vehicles on the local highway network and in particular the number of HGVs. With this in mind, a detailed Highway Safety Signage Strategy will be provided as part of the detailed CTMP. This will include a Temporary Signage Strategy which will be implemented along the routes to the site, warning other road users, cyclists and pedestrians of the presence of construction vehicles. This will be agreed in consultation with the Local Planning and Highway Authority.
- 4.5.12 With regards access through Kelham, specifically at the bend adjacent to the junction with Broadgate Lane and that adjacent to Kelham Bridge, it is it is proposed that procedures will be in place to control the arrivals of deliveries to the site as the on-site operatives will only be able to administer and unload one of these large vehicles at a time. As such, the timing of the vehicles will prevent these vehicles from meeting at the bends in question.
- 4.5.13 In addition, deliveries will not take place during peak hours (08:00-09:30 and 16:30-18:00) or during hours of darkness, as requested by NCC, due to their concerns regarding visibility at Kelham Bridge. Vegetation within the highway boundary on the inside of the bend at the eastern end of Kelham Bridge will be removed/trimmed as necessary to provide the best possible visibility.
- 4.5.14 Upon appointment, the principal contractor will engage with their counterparts for other similar schemes in the area with the aim of organising deliveries to each site so as to avoid conflictions and minimise the impact in locations such as Kelham Bridge.

4.6 Abnormal Loads

4.6.1 It is not anticipated that any abnormal loads will be required to access the site. However, if the need does arise, the Highway Authority will be notified in advance as required by legislation. Such vehicles would also be accompanied by an escort vehicle as appropriate.

- 19 -



4.7 Proposed Mitigation Measures

- 4.7.1 The extent of proposed mitigation measures will be dependent on the appointed contractor for the construction of the facility. However, below are several broad measures that could be readily implemented:
 - → The use of a banksman to help guide deliveries into sites;
 - → Advisory temporary signage on the highway for works in the area;
 - → Temporary signage along the proposed routes to ensure deliveries follow agreed routes;
 - → Provide sufficient parking areas within the plots and adjacent to the temporary construction compound so there is no parking on the highway or potential blockage to access tracks;
 - → Vehicles carrying loose material shall be sheeted;
 - → The use of bowsers/sprays as necessary during dry conditions to prevent dust and the use of wheel cleaning facilities to prevent transfer on to the highway as required;
 - → Secure the site to prevent unauthorised access;
 - → Regularly monitor the condition of the highway for spoil transfer or damage and rectify as required;
 - → Contact local residents prior to construction works commencing advising of anticipated duration and a contact number to advise of any issues/concerns; and
 - → Turning engines off when not in use.
- 4.7.2 The access will have the following measures in place in order to ensure the minimum possible impact on the surrounding highway network:
 - → Hard standing
 - → Wheel washing facilities
 - → Brushes and water supply to clean vehicles before they enter the leave site and enter onto the highway
 - → Mud on road warning signs in case of an incident
 - → Site Safety reminder signs on each exit to remind drivers clean their vehicles and ensure that mud is not deposited on the highway
 - → Appoint a Local Sweeper Company that can attend site in sufficient time in order to deal with incidents
 - → The site contractor to identify a site operative that will take responsibility for mud on road issues that the public and the Authority can contact immediately if or when there are issues
 - → The site contractor will clean all loose stones from the highway each time a vehicle exits
- 4.7.3 A package of minimum mitigation measures that shall be implemented across the development areas, shall be agreed as part of the final/detailed CTMP, which is to be agreed before the construction phase commences.
- 4.7.4 A full highway safety signage strategy will be agreed with the Local Authority and implemented by a competent and professional Traffic Management Company.

- 20 -



4.7.5 The detailed CTMP will include a communication plan, detailing how the applicant intends to consult, liaise and take on board the views and concerns of the affected Communities, Community Councils and Local Members.

4.8 Engagement with the Council

- 4.8.1 If considered necessary a series of meetings will be held between the developer, contractors, haulage contractors and the Council as Highway Authority to discuss progress and any issues which arise during the construction phase. In such circumstances the following meetings may be appropriate but will be agreed with the local planning and highway authorities and National Highways as necessary:
 - → Initial introductory meeting approximately 2 weeks before work commences on site
 - → Second meeting two weeks after works have commenced to discuss progress, concerns and any ongoing issues.
 - → Monthly follow up meetings whilst works are ongoing on site.
 - → Final meeting within 2 weeks of the works being completed.

4.9 Haulage Contractor

- 4.9.1 At this point, a haulage contractor has yet to be appointed. Details of the appointed contractor will be provided in the detailed CTMP to be submitted at a later date. Notwithstanding this, the appointed haulage contractor will be made of the committed provisions as follows:
 - → The developer must ensure that the Haulage Contractor provides clear and detailed instruction to each and every driver on the route that they are expected to take to reach their destination.
 - → The developer must ensure the Haulage Company provides clear and detailed instruction to each and every driver not to follow Satellite Navigation devices onto backroads which do not form part of the pre agreed official transportation routes.
 - → The developer must ensure that the Haulage Company provides clear and detailed instruction to each and every haulage driver to advise the developer if they cause damage to highway verges, ditches, signs or if they cause mud or debris to spill onto the highway. The developer must take immediate action to rectify any issues.
 - → The developer must provide the name and contact details of an onsite operative that the Authority and / or the public can telephone whenever there is an incident involving the haulage contractor on the highway.

4.10 Highway Management and Private Boundary Plan

4.10.1 The detailed CTMP will include details of the areas of land managed by the Highway Authority and areas of land which fall within private ownership, including confirming the following:

- 21 -

→ A road condition survey will be undertaken pre commencement on site and following completion of all works. The extent of the condition survey is identified on Drawing 153626-010 at Appendix C.



- → Details of how all roads will be kept mud free at all times, assurances on what methods they intend to employ to clean vehicles before they leave site and enter the highway.
- → Details of how they intend to maintain the highway verges if they are damaged by site or delivery vehicles,
- → Assurances that potholes will be filled and carry out temporary repairs to the carriageway as a result of their activities.
- → Details of how boundary walls will not be damaged and if they are how they will be rebuilt.



5. Operational and Decommissioning Phases

5.1 Post-Construction

5.1.1 It is anticipated that on completion of the solar farm, BESS and ancillary infrastructure, all temporary works and construction compound will be removed off site. It is anticipated that this may take up to one month.

5.2 Operational Phase

- 5.2.1 Once operational, the solar farm and BESS will be unmanned and access for occasional maintenance will be typically made by light goods vehicles, e.g. vans or 4x4 vehicles. Maintenance will typically occur once a month.
- 5.2.2 Solar farms and BESS developments require little maintenance, the majority of monitoring of such sites is undertaken remotely and there will be no need for everyday inspection of the site.
- 5.2.3 There will be no public access into the site. However, a permissive bridleway is proposed around the perimeter of the site. There is also an existing PRoW that crosses the site. These public areas will be securely fenced.
- 5.2.4 Internal access roads will be maintained throughout the life of the proposed development.

5.3 Decommissioning

- 5.3.1 After 40 years of operational life the solar farm and BESS will be decommissioned and returned to its former agricultural use. It is anticipated that a similar amount of time and type of vehicle will be required to decommission the facility as that to construct it. Furthermore, the level of vehicle movements to decommission the site will be similar to the number of deliveries to site for the construction phase.
- 5.3.2 Prior to the decommissioning phase a detailed assessment will be undertaken to confirm the most suitable routes for vehicles accessing the site.



6. Summary and Conclusions

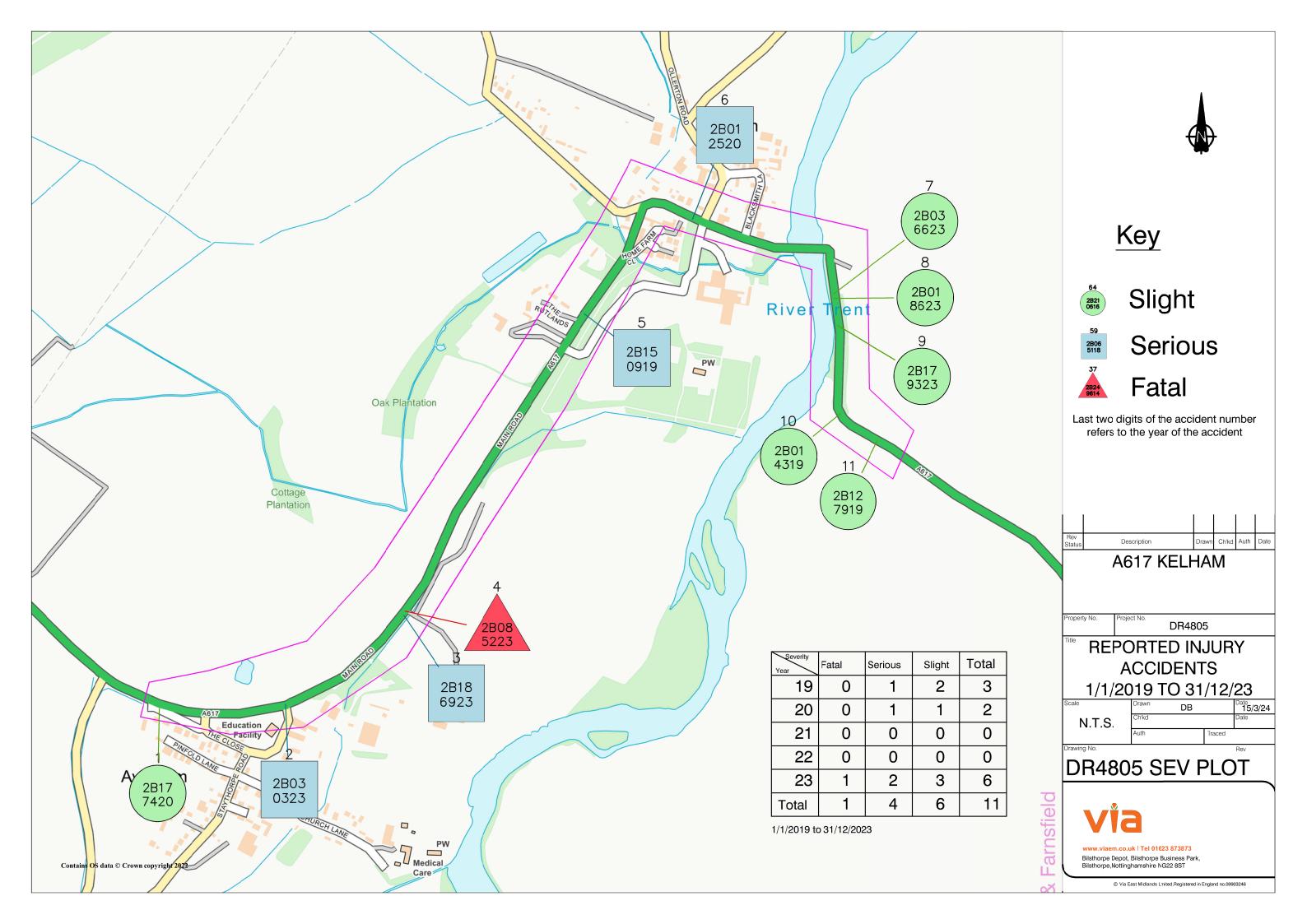
- 6.1 Sirius Planning Ltd (on behalf of their client) is seeking to construct and operate a solar farm and Battery Energy Storage System (BESS) on land off Main Road, Kelham, Newark-on-Trent.
- 6.2 Deliveries will be made to the temporary set down area. Over the 6-month construction phase it is estimated that 1,025 deliveries or 2,050 individual movements will be made to the site. This figure does not include the vehicle movements associated with construction site staff.
- 6.3 Although the construction phase will be temporary, a package of measures will be put in place to ensure the safety of highway users and delivery vehicles. On the basis of the trip generation outlined above, when viewed against recorded vehicle flows on the A617, and given the temporary nature of the construction works, it is expected that the construction of the proposed solar farm and BESS will have minimal impact on the local highway network and is therefore suitable.
- of the Highways Act 1980 and as such Temporary Traffic Management (TTM) will be required during the construction works within the adopted highway. It is likely that this TTM will take the form of temporary traffic signals to enable a safe working area to be created. Whilst a detailed scheme of associated signage and cones/barriers to control the flow of vehicles through the roadworks will be agreed with the Highway Authority and provided in accordance with Traffic Signs Regulation & General Directions 2019 and Chapter 8 Guidelines.
- 6.5 After commissioning, the site will only be visited during routine maintenance checks as required on an ad hoc basis.



Appendix A

Via East Midlands – Accident Reports

Via East Midlands – Severity Report





Total number of reports = 11

Total number of pages (including this page) = 13

ROAD TRAFFIC INJURY ACCIDENT RECORDS - DISCLAIMER

These details are a record of the personal injury accidents reported to the Police. Every endeavour is made to ensure the accuracy and completeness of these records, which have been transcribed from the original Police Reports. The data is then entered and held on computer.

Occasions may arise when information from the Police, relevant to a particular accident, may not be available for several months and will therefore not be included.

Date: 15-March-2024 Page 1 of 13

No. 1 District Newark and Sherwood SEVERITY SLIGHT Ref.No 2B177420 Date 18/12/2020 Day Friday ROAD	Accident Details		VRUs	Grid Reference Police Officer Attend:	476227 / 354674 Yes
Time 06:19 Weather Rain Road Surface Wet Street Lighting Dark/lights lit		east of STAYTHO	RPE ROAD, AV	ERHAM	
Speed Limit 50 MPH SITE Carriageway Single c'way DETAILS Lane markings Centre/hazard line Junction Detail Not at or within 20m of junction Junction Control 2nd Road Number Pedestrian Facilities No Human control within 50m No crossing facility within 50m	ODECLAL CITE COMPUTIONS				
VEHICLES INVOLVED 1			TIES INVOLVED		
Veh.No. 1 Vehicle type Car Manoeuvre Going ahead left hand bend Direction from North west to South east Towing? Skidded Overturned Veh location at impact (restricted lane) On main carrie Junct. location of veh. at 1st impact Not at junction Veh left carriageway? Left c'way Offside Hit object in c'way? None Hit object off c'way? Wall or fence First point of impact Front Drivers age 43 yrs Sex Male Other veh.hit (ref. Foreign vehicle Not foreign Journey purpose Commuting to/from work	riageway on	Cas No 1 Cas Severity SLIGHT Car Passenger? Ped Movement Ped location Ped Direction to School Pupil Roadworker injured	Age 43 No Not a pedes Not a pedes Not a pedes Other	PSV Passenger? trian trian	ef No 1

Full Details 15-March-2024 Accident Ref.No 2B177420 Page 2 of 13

VRUs No. 2 District Newark and Sherwood **Grid Reference** 476495 / 354683 **Accident Details** SEVERITY Ref.No 2B030323 **Pedal Cycle** No - reported over the counter Police Officer Attend: **SERIOUS** Date 21/02/2023 Day Tuesday ROAD A617 Time 08:40 Weather Fine LOCATION A617 MAIN ROAD, at its Junction with U/C STAYTHORPE ROAD/THE CLOSE, AVERHAM Road Surface Dry Street Lighting Daylight Speed Limit 50 MPH SITE SPECIAL SITE CONDITIONS **DETAILS** Carriageway Single c'way None Lane markings Centre/hazard line Junction Detail T or Staggered junction Junction Control Give way sign or uncontrolled CARRIAGEWAY HAZARDS 2nd Road Number Dislodged load Pedestrian Facilities No Human control within 50m No crossing facility within 50m **VEHICLES INVOLVED** 1 CASUALTIES INVOLVED 1 Veh ref No Veh.No. 1 Vehicle type Pedal Cycle Cas No 1 Cas Class Driver or Rider 1 Manoeuvre Going ahead other Severity **SERIOUS** Age 47 yrs Sex Male PSV Passenger? Direction from North east to South west Car Passenger? Nο No Towing? No Skidded Yes Ped Movement Not a pedestrian Veh location at impact (restricted lane) On main carriageway Ped location Not a pedestrian Junct. location of veh. at 1st impact Mid junction Ped Direction to Not a pedestrian Veh left carriageway? Did not leave c'way School Pupil Other Hit object in c'way? None Roadworker injured No Hit object off c'way? None First point of impact Front Drivers age 47 yrs Sex Male Other veh.hit (ref.) Hit and run No Foreign vehicle Not foreign Breath test Not applicable Journey purpose Commuting to/from work

Full Details 15-March-2024 Accident Ref.No 2B030323 Page 3 of 13

VRUs No. 3 District Newark and Sherwood **Grid Reference** 476747 / 354872 **Accident Details** SEVERITY Ref.No 2B186923 Police Officer Attend: **SERIOUS** Date 28/11/2023 Day Tuesday ROAD A617 Time 06:15 Weather Fine LOCATION A617 MAIN ROAD, 308 metres northeast of STAYTHORPE ROAD, AVERHAM Road Surface Ice Street Lighting Dark/no lights 50 MPH Speed Limit SITE SPECIAL SITE CONDITIONS **DETAILS** Carriageway Single c'way Mud Lane markings Centre/hazard line Junction Detail Not at or within 20m of junction Junction Control **CARRIAGEWAY HAZARDS** 2nd Road Number None Pedestrian Facilities No Human control within 50m No crossing facility within 50m **VEHICLES INVOLVED** 1 CASUALTIES INVOLVED 1 Veh.No. 1 Veh ref No Vehicle type Car Cas No 1 Cas Class Driver or Rider 1 Manoeuvre Going ahead other Severity **SERIOUS** Age 57 yrs Sex Female Direction from North east to South west Car Passenger? Nο PSV Passenger? Nο Towing? No Skidded Yes & Overturned Ped Movement Not a pedestrian On main carriageway Veh location at impact (restricted lane) Ped location Not a pedestrian Junct. location of veh. at 1st impact Not at junction Ped Direction to Not a pedestrian Veh left carriageway? Left c'way near-side School Pupil Other Hit object in c'way? Kerb Roadworker injured No Hit object off c'way? Entered ditch First point of impact Front Drivers age 57 yrs Sex Female Other veh.hit (ref.) Hit and run No Foreign vehicle Not foreign Breath test Negative

Full Details 15-March-2024 Accident Ref.No 2B186923 Page 4 of 13

Journey purpose

Commuting to/from work

VRUs District Newark and Sherwood No. 4 Grid Reference 476750 / 354881 **Accident Details SEVERITY** Ref.No 2B085223 Police Officer Attend: **FATAL** 11/07/2023 Date Day Tuesday ROAD A617 Time 07:05 Weather Fine LOCATION A617 MAIN ROAD, 498 metres northeast of THE CLOSE, AVERHAM Road Surface Drv Street Lighting Daylight Speed Limit 50 MPH SITE SPECIAL SITE CONDITIONS **DETAILS** Carriageway Single c'way None Centre/hazard line Lane markings Junction Detail Not at or within 20m of junction Junction Control CARRIAGEWAY HAZARDS 2nd Road Number None Pedestrian Facilities No Human control within 50m No crossing facility within 50m **VEHICLES INVOLVED** 2 **CASUALTIES INVOLVED** 2 Veh.No. 1 Veh ref No Vehicle type Car Cas No 1 Cas Class Driver or Rider 1 Manoeuvre Going ahead other Severity **SERIOUS** Age 43 yrs Sex Male Direction from South west to North east Car Passenger? Nο PSV Passenger? Nο Towing? No Skidded No **Ped Movement** Not a pedestrian Veh location at impact (restricted lane) On main carriageway Ped location Not a pedestrian Junct. location of veh. at 1st impact Not at junction Ped Direction to Not a pedestrian Veh left carriageway? Left c'way near-side School Pupil Other Hit object in c'way? None Roadworker injured Nο Hit object off c'way? None Cas No 2 Cas Class Veh ref No Driver or Rider 2 First point of impact Front Severity **FATAL** Age 19 yrs Sex Male Drivers age 43 yrs Sex Male Other veh.hit (ref.) 2 Hit and run No. Car Passenger? PSV Passenger? Nο No Foreign vehicle Not foreign Breath test Not provided Ped Movement Journey purpose Not a pedestrian Vehicle type Car Ped location Not a pedestrian Veh.No. 2 Manoeuvre Going ahead other Ped Direction to Not a pedestrian Direction from North east to South west Towing? No School Pupil Other Skidded No Roadworker injured No Veh location at impact (restricted lane) On main carriageway Junct, location of veh. at 1st impact Not at junction Veh left carriageway? Did not leave c'way Hit object in c'way? None Hit object off c'way? None First point of impact Front Drivers age 19 yrs Sex Male Other veh.hit (ref.) Hit and run No Foreign vehicle Not foreign Breath test Not provided Journey purpose

Full Details 15-March-2024 Accident Ref.No 2B085223 Page 5 of 13

VRUs No. 5 District Newark and Sherwood **Grid Reference** 477131 / 355513 **Accident Details** SEVERITY Ref.No 2B150919 Police Officer Attend: **SERIOUS** Date 30/08/2019 Day Friday ROAD A617 Time 13:36 Weather Fine LOCATION A617 MAIN ROAD, 73 metres northeast of PVTE ENT/EXIT KELHAM HOUSE COUNTRY MANOR HOTEL, KELHAM Road Surface Dry Street Lighting Daylight Speed Limit 30 MPH SITE SPECIAL SITE CONDITIONS **DETAILS** Carriageway Single c'way None Lane markings Centre/hazard line Junction Detail Not at or within 20m of junction Junction Control **CARRIAGEWAY HAZARDS** 2nd Road Number None Pedestrian Facilities No Human control within 50m No crossing facility within 50m **VEHICLES INVOLVED** 1 CASUALTIES INVOLVED 1 Veh.No. 1 Veh ref No Vehicle type Car Cas No 1 Cas Class Driver or Rider 1 Severity **SERIOUS** Manoeuvre Going ahead other Age 81 yrs Sex Male PSV Passenger? Direction from North east to South west Car Passenger? Nο No Towing? No Skidded No Ped Movement Not a pedestrian On main carriageway Veh location at impact (restricted lane) Ped location Not a pedestrian Junct. location of veh. at 1st impact Not at junction Ped Direction to Not a pedestrian Veh left carriageway? Left c'way near-side School Pupil Other Hit object in c'way? None Roadworker injured No Hit object off c'way? Wall or fence First point of impact Front Drivers age 81 yrs Sex Male Other veh.hit (ref.) Hit and run No Foreign vehicle Not foreign Breath test Not requested

Full Details 15-March-2024 Accident Ref.No 2B150919 Page 6 of 13

Journey purpose

Other/Not known

VRUs No. 6 District Newark and Sherwood **Grid Reference** 477361 / 355714 **Accident Details** SEVERITY Ref.No 2B012520 Police Officer Attend: **SERIOUS** Date 09/02/2020 Day Sunday ROAD A617 Time 07:49 Weather Fine Wind LOCATION A617, 46 metres west of OLLERTON ROAD, KELHAM Road Surface Wet Street Lighting Daylight Speed Limit 60 MPH SITE SPECIAL SITE CONDITIONS **DETAILS** Carriageway Single c'way Mud Lane markings Centre/hazard line Junction Detail Not at or within 20m of junction Junction Control **CARRIAGEWAY HAZARDS** 2nd Road Number None Pedestrian Facilities No Human control within 50m No crossing facility within 50m **VEHICLES INVOLVED** 1 CASUALTIES INVOLVED 1 Veh.No. 1 Veh ref No Vehicle type Car Cas No 1 Cas Class Driver or Rider 1 Severity **SERIOUS** Age 24 yrs Sex Male Manoeuvre Going ahead other PSV Passenger? Direction from South east to North west Car Passenger? Nο No Towing? No Skidded Yes Ped Movement Not a pedestrian On main carriageway Veh location at impact (restricted lane) Ped location Not a pedestrian Junct. location of veh. at 1st impact Not at junction Ped Direction to Not a pedestrian Veh left carriageway? Left c'way near-side School Pupil Other Hit object in c'way? None Roadworker injured No Hit object off c'way? Wall or fence First point of impact Nearside Drivers age 24 yrs Sex Male Other veh.hit (ref.) Hit and run No Foreign vehicle Not foreign Breath test Negative

Full Details 15-March-2024 Accident Ref.No **2B012520** Page 7 of 13

Journey purpose

Journey as part of work

VRUs No. **7** District Newark and Sherwood Grid Reference 477661 / 355556 **Accident Details SEVERITY** Ref.No 2B036623 Police Officer Attend: SLIGHT Date 17/03/2023 Day Friday ROAD A617 Time 15:00 Weather Fine LOCATION A617 KELHAM ROAD, 95 metres south of KELHAM LANE, KELHAM Road Surface Dry Street Lighting Daylight Speed Limit 50 MPH SITE SPECIAL SITE CONDITIONS **DETAILS** Carriageway Single c'way None Centre/hazard line Lane markings Junction Detail Not at or within 20m of junction Junction Control CARRIAGEWAY HAZARDS 2nd Road Number None Pedestrian Facilities No Human control within 50m No crossing facility within 50m **VEHICLES INVOLVED** 2 CASUALTIES INVOLVED 1 Veh.No. 1 Vehicle type Cas No 1 Cas Class Veh ref No Car Driver or Rider 1 Manoeuvre Going ahead other Severity SLIGHT Age 17 yrs Sex Male Direction from South to North Car Passenger? Nο PSV Passenger? Nο Towing? No Skidded No **Ped Movement** Not a pedestrian Veh location at impact (restricted lane) On main carriageway Ped location Not a pedestrian Junct. location of veh. at 1st impact Not at junction Ped Direction to Not a pedestrian Veh left carriageway? Did not leave c'way School Pupil Other Hit object in c'way? None Roadworker injured No Hit object off c'way? None First point of impact Front Drivers age 17 yrs Sex Male Other veh.hit (ref.) 2 Hit and run No Foreign vehicle Not foreign Breath test Not requested Other/Not known Journey purpose Vehicle type Car Veh.No. 2 Manoeuvre Stopping Direction from South to North Towing? No Skidded No Veh location at impact (restricted lane) On main carriageway Junct, location of veh. at 1st impact Not at junction Did not leave c'way Veh left carriageway? Hit object in c'way? None Hit object off c'way? None First point of impact Back Drivers age 69 yrs Sex Male Hit and run No Other veh.hit (ref.) Foreign vehicle Not foreign Breath test Not requested Journey purpose Other/Not known

Full Details 15-March-2024 Accident Ref.No **2B036623** Page 8 of 13

VRUs Newark and Sherwood No. 8 District Grid Reference 477661 / 355546 **Accident Details** SEVERITY Ref.No 2B018623 Police Officer Attend: SLIGHT Date 07/02/2023 Day Tuesday ROAD A617 Time 09:51 Weather Fine LOCATION A617 KELHAM ROAD, 78 metres south of KELHAM LANE, KELHAM Road Surface Wet Street Lighting Daylight Speed Limit 30 MPH SITE SPECIAL SITE CONDITIONS **DETAILS** Carriageway Single c'way None Centre/hazard line Lane markings Junction Detail Not at or within 20m of junction Junction Control CARRIAGEWAY HAZARDS 2nd Road Number Animal in c'way Pedestrian Facilities No Human control within 50m No crossing facility within 50m **VEHICLES INVOLVED** 2 CASUALTIES INVOLVED 2 Veh.No. 1 Veh ref No Vehicle type Car Cas No 1 Cas Class Driver or Rider 2 Manoeuvre Going ahead other Severity SLIGHT Age 32 yrs Sex Male Direction from South to North Car Passenger? No PSV Passenger? Nο Towing? No Skidded Yes **Ped Movement** Not a pedestrian Veh location at impact (restricted lane) On main carriageway Ped location Not a pedestrian Junct. location of veh. at 1st impact Not at junction Ped Direction to Not a pedestrian Veh left carriageway? Did not leave c'way School Pupil Other Hit object in c'way? None Roadworker injured Nο Hit object off c'way? None Cas No 2 Cas Class Veh ref No Driver or Rider 1 First point of impact Front Severity SLIGHT Age 52 yrs Sex Male Drivers age 52 yrs Sex Male Other veh.hit (ref.) 2 Hit and run No. Car Passenger? PSV Passenger? Nο No Foreign vehicle Not foreign Breath test Negative Ped Movement Journey purpose Other/Not known Not a pedestrian Ped location Not a pedestrian Veh.No. 2 Vehicle type Car Manoeuvre Going ahead other Ped Direction to Not a pedestrian Direction from South to North Towing? No School Pupil Other Skidded No Roadworker injured No Veh location at impact (restricted lane) On main carriageway Junct, location of veh. at 1st impact Not at junction Veh left carriageway? Did not leave c'way Hit object in c'way? None Hit object off c'way? None First point of impact Back Drivers age 32 yrs Sex Male Other veh.hit (ref.) Hit and run No Foreign vehicle Not foreign Breath test Negative Journey purpose

Full Details 15-March-2024 Accident Ref.No **2B018623** Page 9 of 13

VRUs District Newark and Sherwood No. 9 Grid Reference 477669 / 355489 **Accident Details SEVERITY** Ref.No 2B179323 Police Officer Attend: SLIGHT Date 15/11/2023 Day Wednesday ROAD A617 Time 08:04 Weather Fine LOCATION A617 KELHAM ROAD, 132 metres south of KELHAM LANE, KELHAM Road Surface Wet Street Lighting Daylight **Speed Limit** 50 MPH SITE SPECIAL SITE CONDITIONS **DETAILS** Carriageway Single c'way None Centre/hazard line Lane markings Junction Detail Not at or within 20m of junction Junction Control CARRIAGEWAY HAZARDS 2nd Road Number None Pedestrian Facilities No Human control within 50m No crossing facility within 50m **VEHICLES INVOLVED** 3 CASUALTIES INVOLVED 1 Veh.No. 1 Vehicle type Car Cas No 1 Cas Class Veh ref No Driver or Rider 1 Manoeuvre Going ahead other Severity SLIGHT Age 65 yrs Sex Male Direction from South to North Car Passenger? Nο **PSV Passenger?** Nο Towing? No Skidded No **Ped Movement** Not a pedestrian Veh location at impact (restricted lane) On main carriageway Ped location Not a pedestrian Junct. location of veh. at 1st impact Not at junction Ped Direction to Not a pedestrian Veh left carriageway? Did not leave c'way School Pupil Other Hit object in c'way? None Roadworker injured No Hit object off c'way? None First point of impact Front Drivers age 65 yrs Sex Male Other veh.hit (ref.) 2 Hit and run No Foreign vehicle Not foreign Breath test Negative Journey purpose Vehicle type Car Veh.No. 2 Manoeuvre Stopping Direction from South to North Towing? No Skidded No On main carriageway Veh location at impact (restricted lane) Junct, location of veh. at 1st impact Not at junction Did not leave c'way Veh left carriageway? Hit object in c'way? None Hit object off c'way? None First point of impact Back Drivers age 37 yrs Sex Female Other veh.hit (ref.) Hit and run No Foreign vehicle Not foreign Breath test Negative Journey purpose

Full Details 15-March-2024 Accident Ref. No 2B179323 Page 10 of 13

Veh.No. 3 Vehicle type Car Manoeuvre Stopping

Direction from South to North Towing? No

Skidded No

Veh location at impact (restricted lane)

On main carriageway

Junct. location of veh. at 1st impact Not at junction

Veh left carriageway? Did not leave c'way

Hit object in c'way? None
Hit object off c'way? None
First point of impact Back

Drivers age 35 yrs Sex Male Other veh.hit (ref.) 2 Hit and run No

Foreign vehicle Not foreign Breath test Negative

Journey purpose

Full Details 15-March-2024 Accident Ref.No **2B179323** Page 11 of 13

No. 10 District Newark and Sherwood SEVERITY SLIGHT 2B014319	I	Accident Details		VRUs	Grid Reference Police Officer Attend:	477676 / 355302 Yes
Date 03/02/2019 Day Sunday Time 12:54 Weather Fine Road Surface Dry Street Lighting Daylight Speed Limit 50 MPH Carriageway Single c'way Lane markings Centre/hazard line Junction Detail Not at or within 20m of junction Control 2nd Road Number Pedestrian Facilities No Human control within and No crossing facility with	SITE DETAILS unction	A617 A617 KELHAM ROAD BEND, 320 metre: SPECIAL SITE CONDITIONS None CARRIAGEWAY HAZARDS None	s from KELHAM BR	RIDGE, KELHAM		
VEHICLES INVOLVED 1		.1	CASU	ALTIES INVOLVED	2	
Veh.No. 1 Vehicle type Car Manoeuvre Going ahead left hand bend Direction from North to South east Towing? No Skidded Overturned Veh location at impact (restricted lane) On main carriageway Junct. location of veh. at 1st impact Not at junction Veh left carriageway? Left c'way near-side Hit object in c'way? Kerb			Cas No 1 Ca Severity SLIGH Car Passenger? Ped Movement Ped location Ped Direction to School Pupil Roadworker injure	Rear Not a pedest Not a pedest Not a pedest Other	rrs Sex Female PSV Passenger? rian rian	ef No 1 No
Hit object off c'way? First point of impact Drivers age 18 yrs Sex Male Foreign vehicle Journey purpose Tree Nearside Not foreign Other/Not known	er veh.hit (ref.) (Hit and run No Breath test Negative	Cas No 2 Ca Severity SLIGH Car Passenger? Ped Movement Ped location Ped Direction to School Pupil Roadworker injure	Rear Not a pedest Not a pedest Not a pedest Other	rs Sex Male PSV Passenger? rian rian	ef No 1 No

Full Details 15-March-2024 Accident Ref.No 2B014319 Page 12 of 13

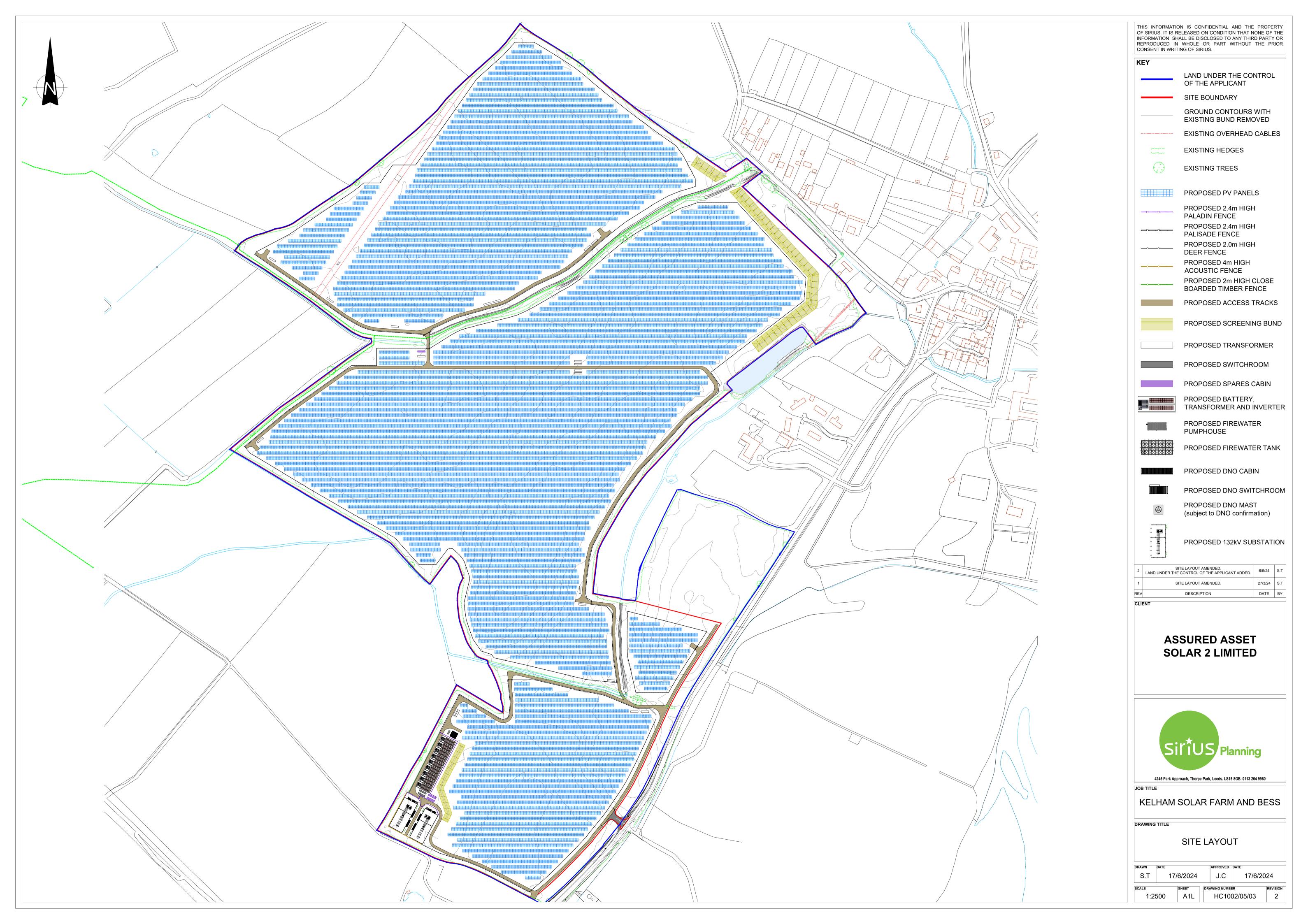
VRUs No. 11 District Newark and Sherwood **Grid Reference** 477754 / 355244 Motorcycle **Accident Details** SEVERITY Ref.No 2B127919 Police Officer Attend: SLIGHT Date 10/07/2019 Day Wednesday **ROAD** A617 Time 16:05 Weather Fine LOCATION A617 KELHAM ROAD, 413 metres southeast of KELHAM LANE, KELHAM Road Surface Dry Street Lighting Daylight Speed Limit 50 MPH SITE SPECIAL SITE CONDITIONS **DETAILS** Carriageway Single c'way None Lane markings Centre/hazard line Junction Detail Not at or within 20m of junction Junction Control CARRIAGEWAY HAZARDS 2nd Road Number Other object Pedestrian Facilities No Human control within 50m No crossing facility within 50m **VEHICLES INVOLVED** 1 **CASUALTIES INVOLVED** 1 Veh.No. 1 Veh ref No Vehicle type M/cycle 50 - 125cc Cas No 1 Cas Class Driver or Rider 1 Manoeuvre Going ahead other Severity SLIGHT Age 21 yrs Sex Male PSV Passenger? Direction from South east to North west Car Passenger? Nο No Towing? No Skidded No Ped Movement Not a pedestrian On main carriageway Veh location at impact (restricted lane) Ped location Not a pedestrian Junct. location of veh. at 1st impact Not at junction Ped Direction to Not a pedestrian Veh left carriageway? Did not leave c'way School Pupil Other Hit object in c'way? Other object Roadworker injured No Hit object off c'way? None First point of impact Front Drivers age 21 yrs Sex Male Other veh.hit (ref.) Hit and run No Foreign vehicle Not foreign Breath test Negative Journey purpose

Full Details 15-March-2024 Accident Ref.No **2B127919** Page 13 of 13

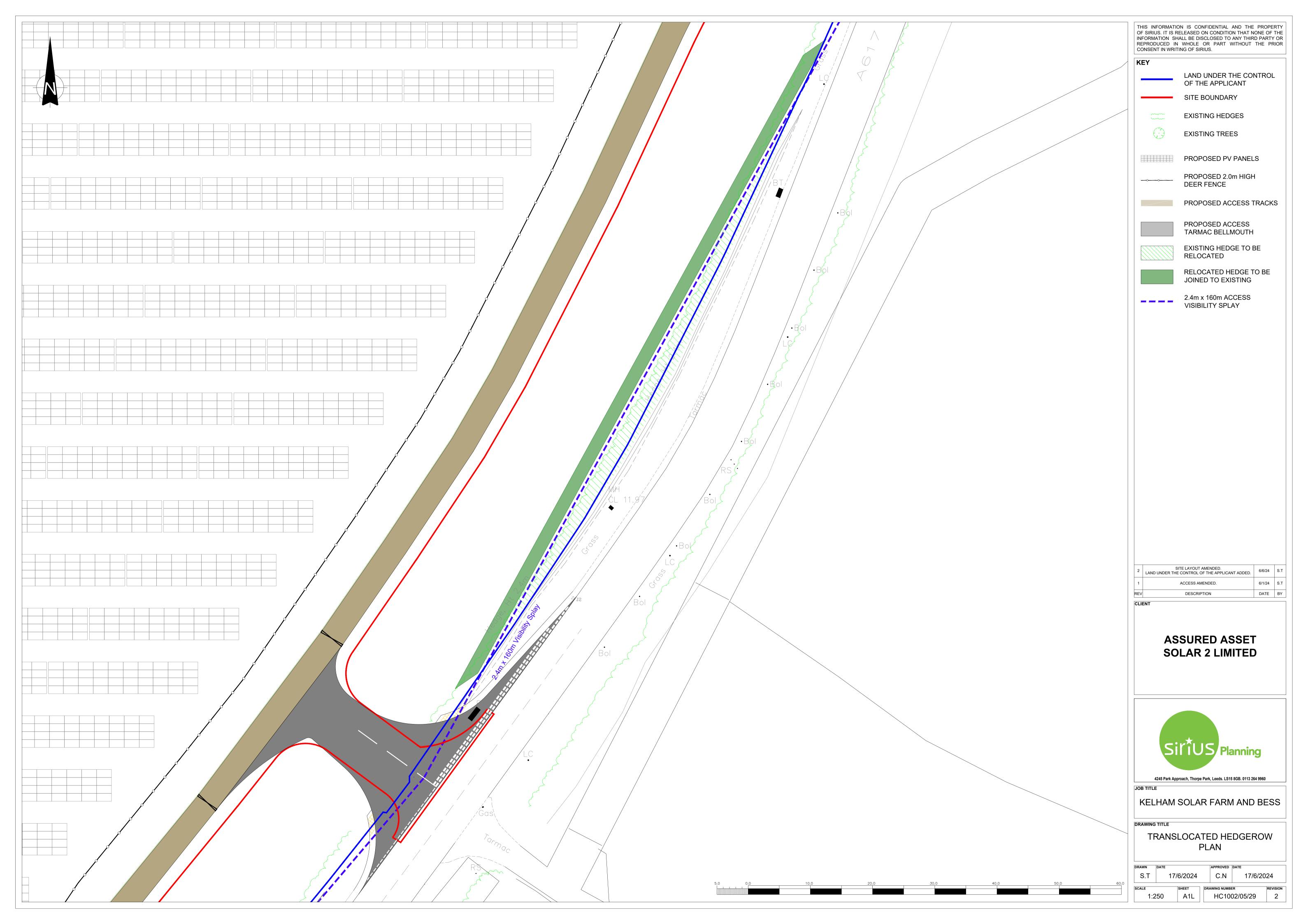


Appendix B

Site Layout Plan
Proposed Set Down and Parking Areas
Translocated Hedge Drawing



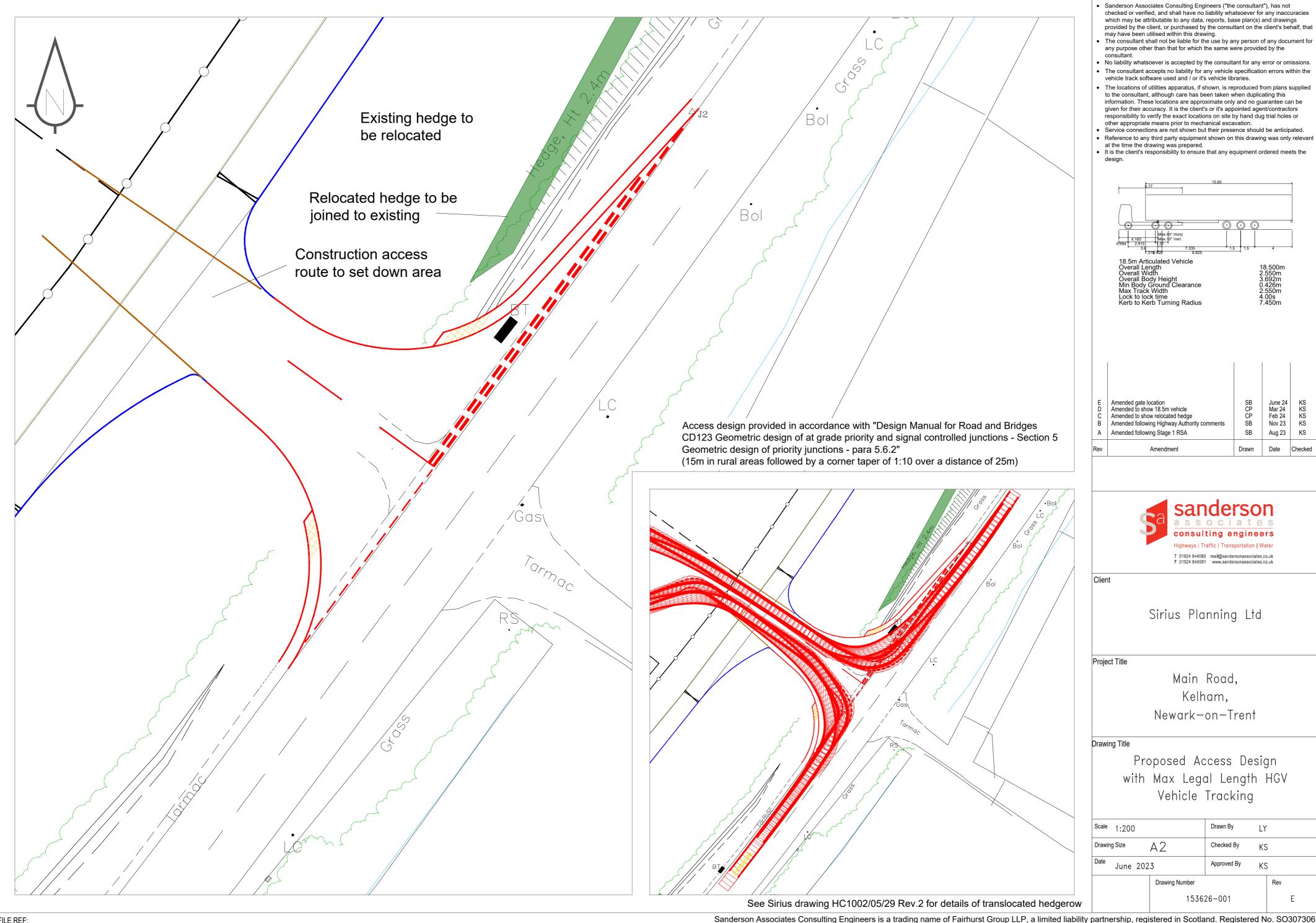






Appendix C

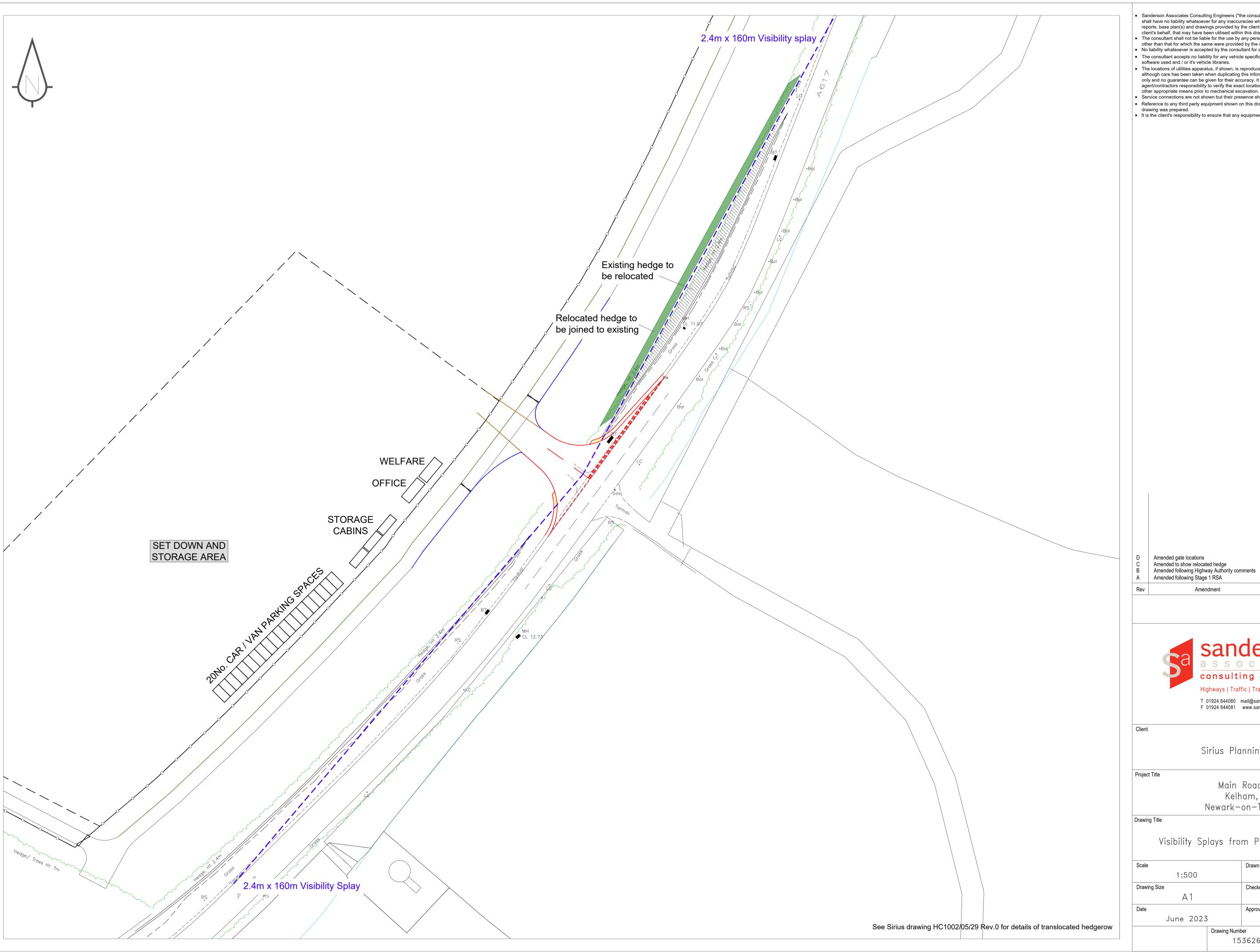
Drawing 153626-001E - Proposed Access Design
Drawing 153626-002D - Visibility Splays from Proposed Access
Drawing 153626-006B - 18.5m Articulated Vehicle Swept Path Analysis
Drawing 153626-008 - Vehicle Routes
Drawing 153626-010 - Extent of Condition Survey
Drawing 153626-011 - Proposed Overflow Parking Area
Drawing 153626-012 - Reduced Set Down Area



June 24 KS Mar 24 KS Feb 24 KS Nov 23 KS

Aug 23 KS

Date



- other than that for which the same were provided by the consultant.
- No liability whatsoever is accepted by the consultant for any error or omissions. The consultant accepts no liability for any vehicle specification errors within the vehicle track
- The locations of utilities apparatus, if shown, is reproduced from plans supplied to the consultant, although care has been taken when duplicating this information. These locations are approximate only and no guarantee can be given for their accuracy. It is the client's or it's appointed
- agent/contractors responsibility to verify the exact locations on site by hand dug trial holes or other appropriate means prior to mechanical excavation. Service connections are not shown but their presence should be anticipated.
- Reference to any third party equipment shown on this drawing was only relevant at the time the
- drawing was prepared.

 It is the client's responsibility to ensure that any equipment ordered meets the design.

consulting engineers Highways | Traffic | Transportation | Water

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 SB
 June 2024
 KS

 CP
 Feb 2024
 KS

 SB
 Nov 2023
 KS

 SB
 Aug 2023
 KS

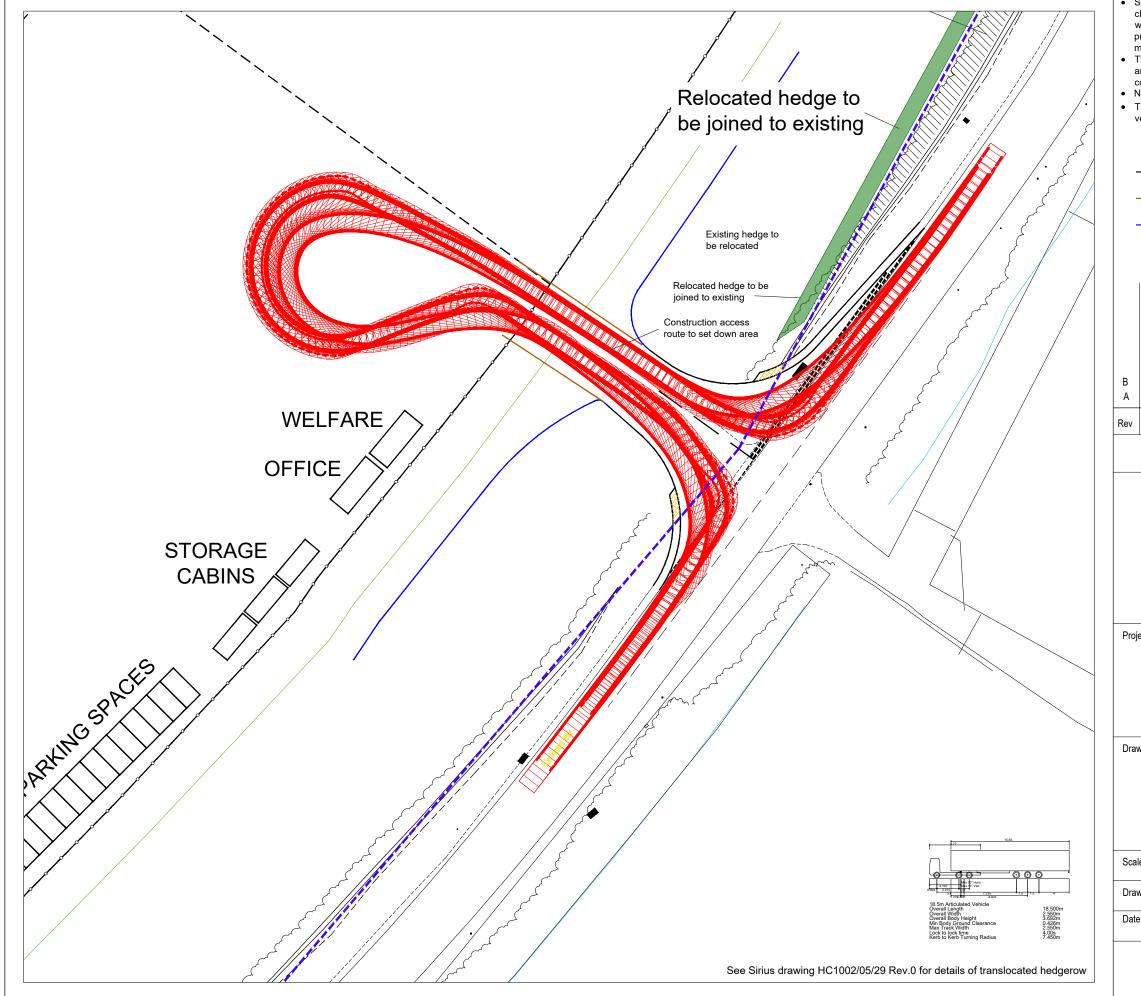
Date Checked

Sirius Planning Ltd

Main Road, Kelham, Newark-on-Trent

Visibility Splays from Proposed Access

Scale		Drawn By		
1:500		LY		
Drawing Size		Checked By		
A1		KS		
Date		Approved By		
June 2023		KS		
	Drawing Numb	per	Rev	
	15	3626-002	D	



- Sanderson Associates Consulting Engineers ("the consultant"), has not checked or verified, and shall have no liability whatsoever for any inaccuracies which may be attributable to any data, reports, base plan(s) and drawings provided by the client, or purchased by the consultant on the client's behalf, that may have been utilised within this drawing.
- The consultant shall not be liable for the use by any person of any document for any purpose other than that for which the same were provided by the
- consultant.

 No liability whatsoever is accepted by the consultant for any error or omissions.
- The consultant accepts no liability for any vehicle specification errors within the vehicle track software used and / or it's vehicle libraries.

Access onto A617

Temporary Access Road

Permanent Access Road

B A	Amended gate location Amended to show relocated hedge	SB CP	June 24 Feb 24	KS KS	
Rev	Amendment	Drawn	Date	Checked	



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Project Name

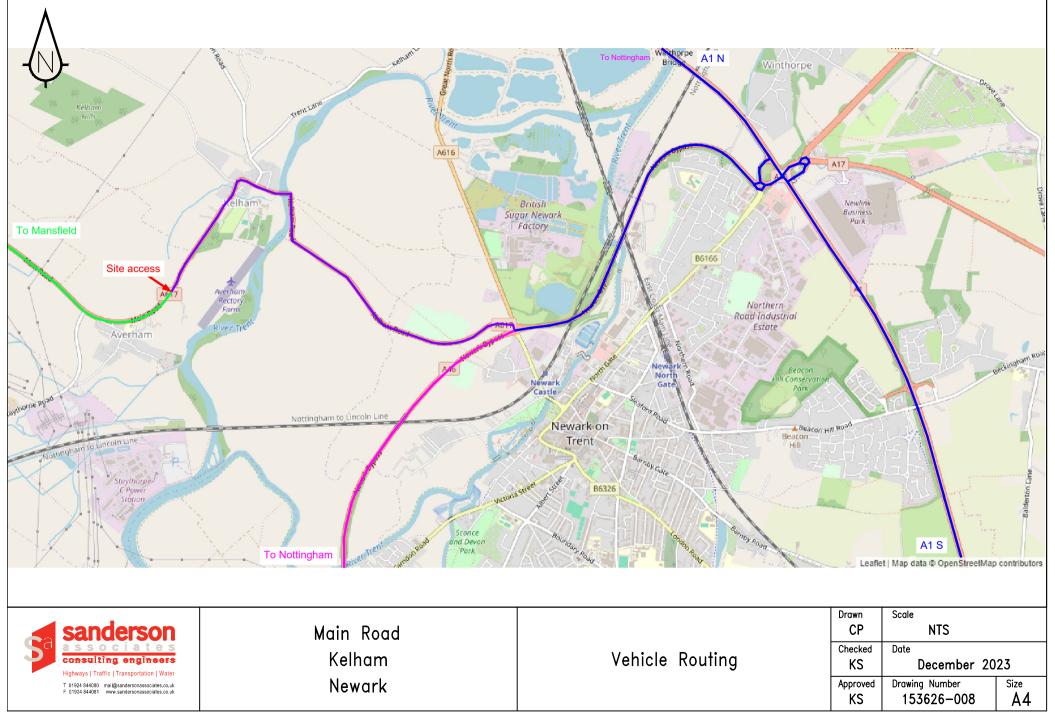
Main Street Kelham

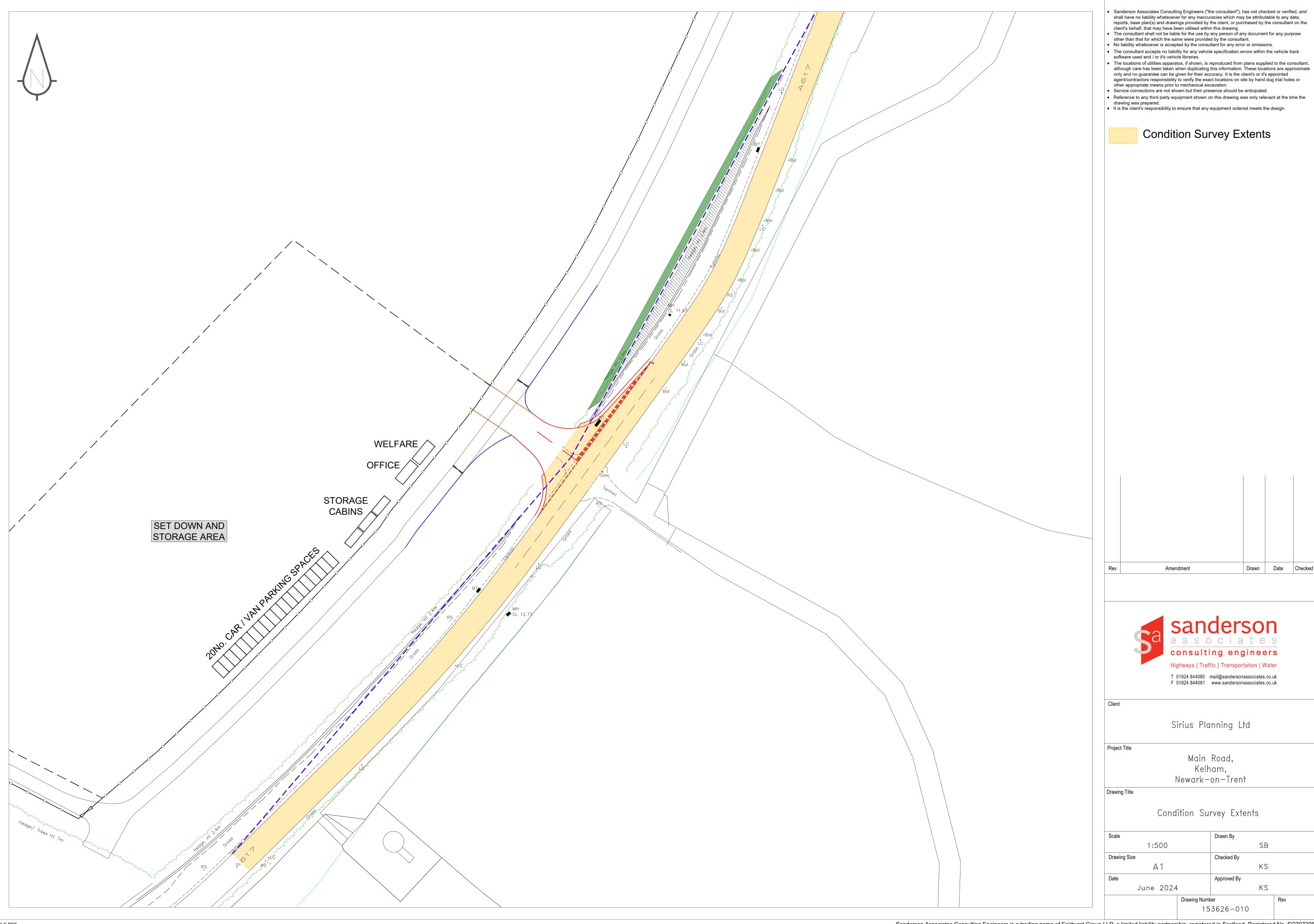
Drawing Title

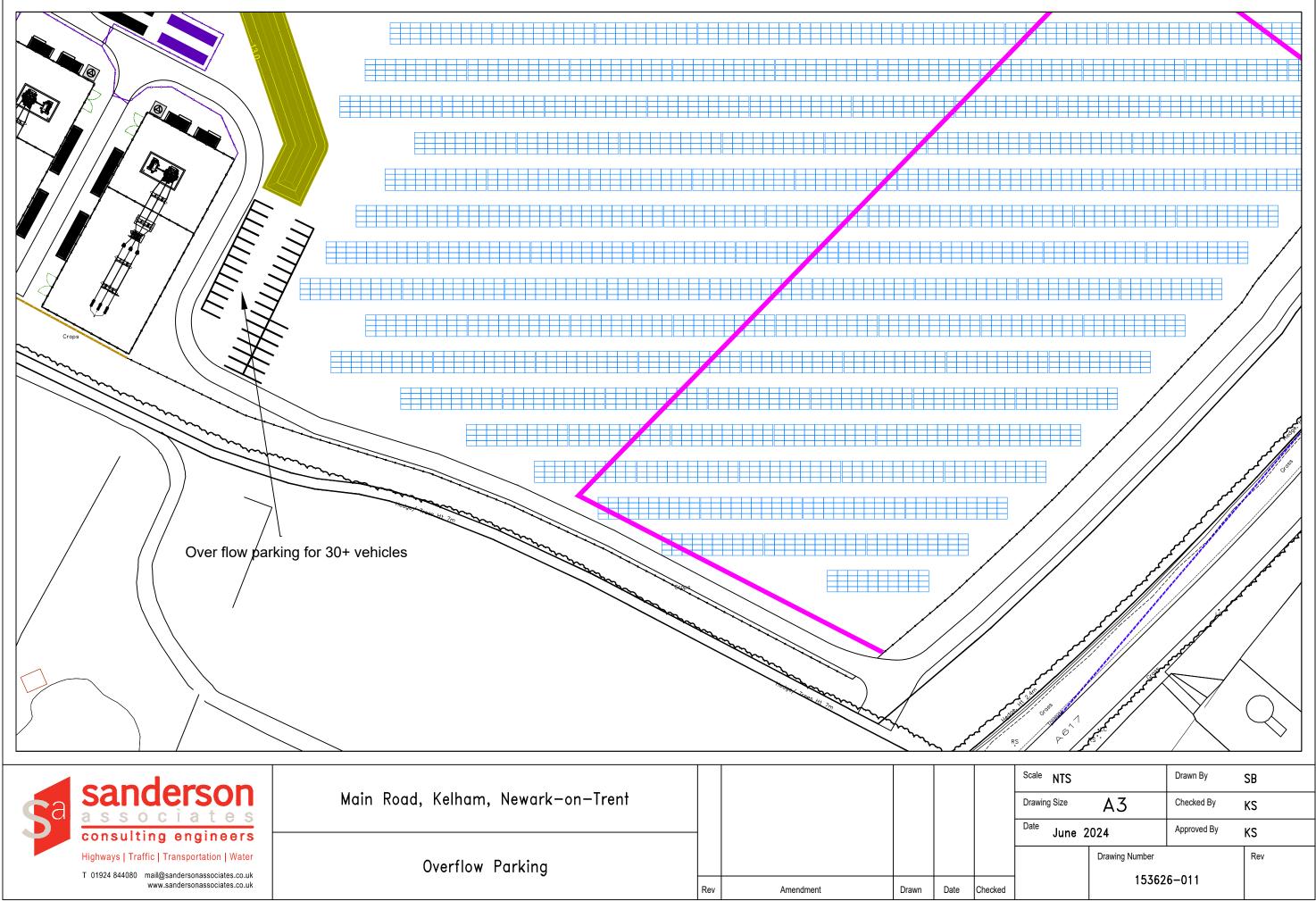
18.5m Articulated Vehicle Swept Path Analysis

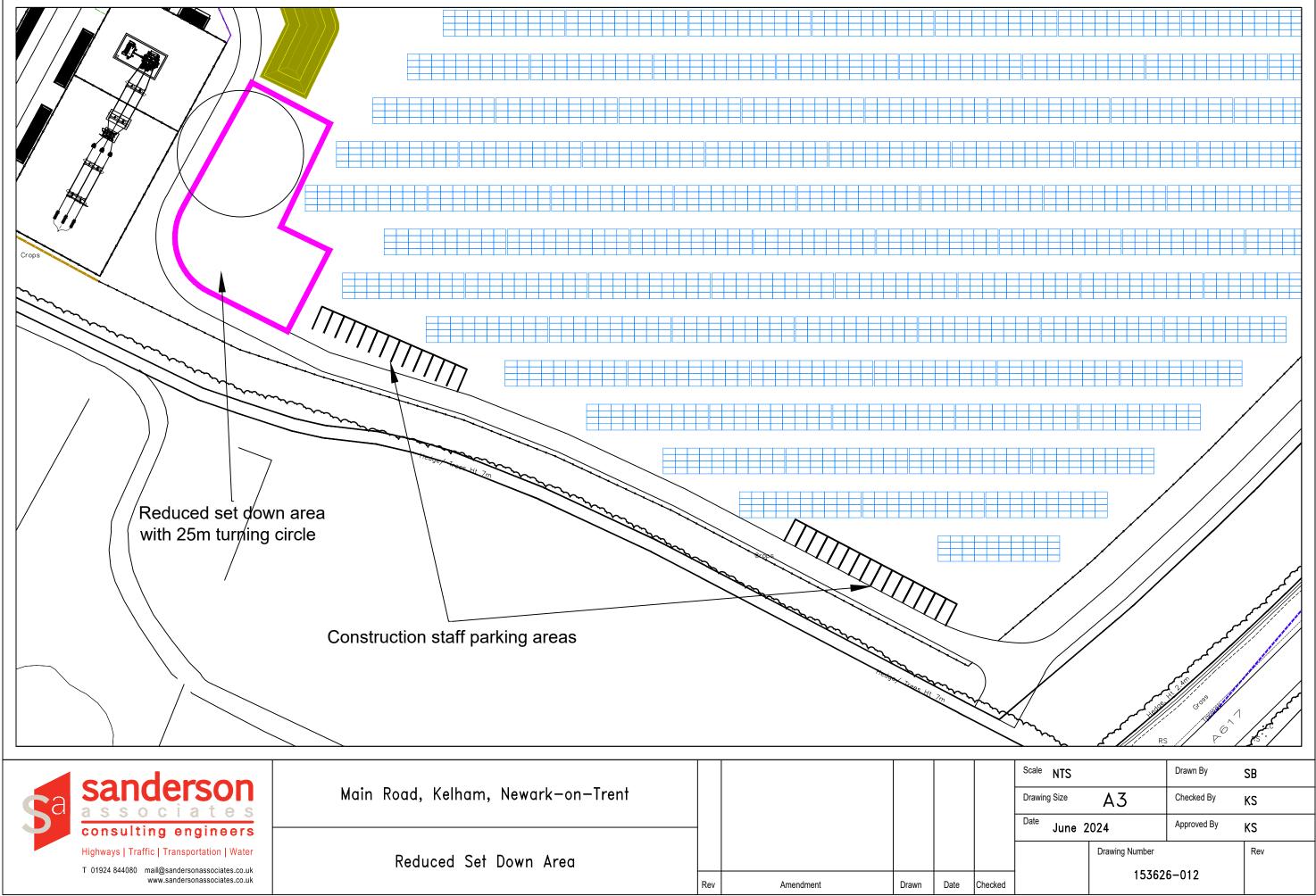
Scale 1:500	Drawn By SB
Drawing Size A 3	Checked By KS
Dec 2023	Approved By KS

Drawing Number 153626-006















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