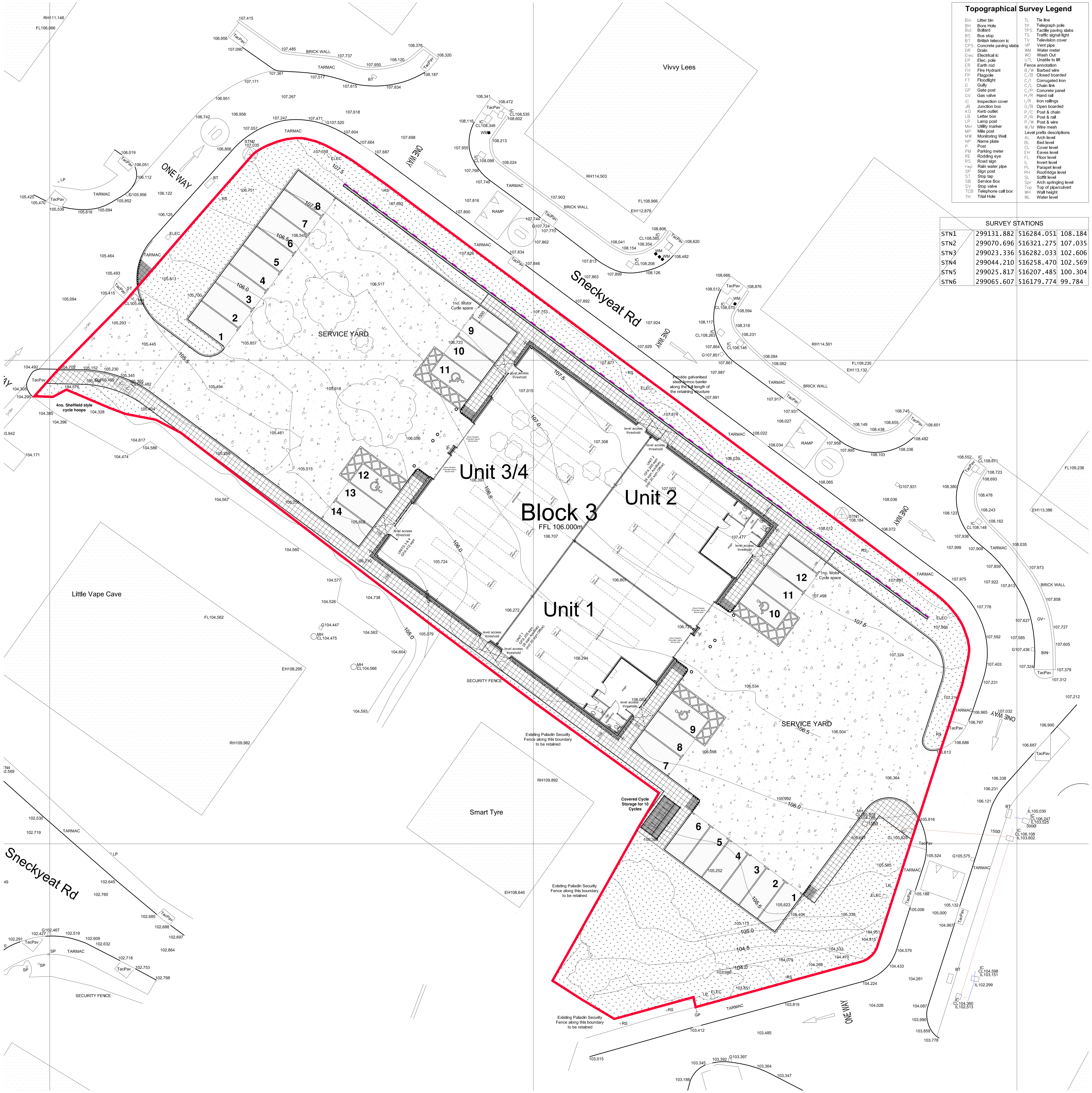
| Ref | Element/Activity | Hazard | Persons at risk | Risk | Risk owner | Design measures to reduce or eliminate risk | Residual risk level | Information about residual | Contractor design element |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Natural Environment | Damage, Contamination. | C, P | | C | Control Measures and RAMS for all works | | Ongoing | Contractor to implement RAMS accordingly. |
| 2 | Security | Damage, Theft. | C, P | | C | Security Fencing, Visual surveillance | | Ongoing | Contractor to provide site boundary fencing and Security surveillance |
| 3 | Temp works | Assembly, installation and disassembly of heavy components, manual handling operations, collapse of banking, access provisions, restricted working space, working at height, etc. | C, P | | C | Minimise requirement for Temporary Works where possible, Contractor to appoint Temporary Works Coordinator to set out temporary works procedures and a Temporary Works Supervisor to carry out necessary inspections. | | Ongoing | Temporary Works Coordinator to provide Design Risk Management information on any significant or unusual risks. |
| 4 | Outbreak of fire during the construction phase | Maintaining fire escape routes from the structure during construction phase, ensuring sufficient means of escape and fire-fighting equipment, etc. | C, P | | C | Prepare Fire Safety Plan and RAMS to detail procedures to be implemented. | | Ongoing | Ensure that any control measures identified are implemented under the appropriate RAMS. |
| 5 | Traffic management i.e. vehicular access for plant and deliveries | Traffic movements across live roads, collisions with vehicles and pedestrians | C, P | | C | Contractor to include traffic management strategy within their CPP and supply a Site Establishment and Traffic Management Plan. Contractor to consider local parking, and any applicable restrictions with the associated vehicular access and parking arrangements. | | Ongoing | Suitable warning/directional signage to be installed to denote construction site access route. Traffic management arrangements to be monitored throughout the construction phase, PCI and CPP to be updated as required. |
| 6 | Site work generally | Manual handling operations, contact with hazardous substances, Disturbance to adjacent occupied buildings, Fragile roofs whilst building under construction, Injury, damage, delays caused during installation of large and/or heavy components, Unplanned collapse of plant/equipment, damage to structures and infrastructure. | C, P | | C | DRM information on significant or unusual risks associated with these works, and residual risk information where required. DRM information to consider interfaces with other design elements. Design Team to design out materials over 20kg that require manual handling. Design Team to design out hazardous materials. Design Team to consider which adjacent areas may be affected by noise, vibration, dust and other restrictions. Design Team to consider and factor into their designs. Design Team to design out potential for fragile roofs during construction. Fall from height prevention measures to be incorporated into rooflights or other temporary gaps within roofs. | | Ongoing | Advise of any design changes incorporating materials over 20kg that require manual handling, or hazardous materials, so that any implications in relation to health and safety matters can be properly assessed prior to being implemented. Ensure that the control measures identified in the lifting plan and RAMS are implemented. Impact on adjacent occupied buildings, adjoining highways etc. to be reviewed on an ongoing basis throughout the construction phase. |
| 7 | Excavation and Groundworks | Contamination, Stability, Collapse, Noise and Vibration, Falling into | C, P | | C | Geo-Environmental Assessment included in PCI. Contractor to provide Method Statement/RAMS to cover works. | | Ongoing | Groundworks in accordance with Geo-Environmental Assessment. Contractor to ensure control measures identified in report(s) are implemented under the RAMS. |
| 8 | Levels/slope formation | Collapse, Land slip | C, P | | C | Ensure gradual creation of slopes and Contractor to provide Method Statement/RAMS to cover works. | | Ongoing | Groundworks in accordance with Geo-Environmental Assessment. Contractor to ensure control measures identified in report(s) are implemented under appropriates RAMS. |
| 9 | Architectural Design Elements | Work at height, manual handling, assembling and installing heavy components, contact with live services, restricted access and working space. | C | | DT | Provide DRM information on significant and/or unusual risks associated with the works and residual risks where required. | | Ongoing | Contractors to ensure that any control measures identified are implemented under appropriate RAMS |
| 10 | Construction of building envelopes | Injury, damage, delays caused during installation of large and/or heavy components | C | | DT,C | Design Team to ensure that the materials specified in the design can be transported to the final position on site considering all site constraints. Any unusual or difficult components that cannot be designed out must be identified at the design stage, so Contractor can manage installation. | | Ongoing | Impact on adjacent occupied buildings, adjoining highways etc. to be reviewed on an ongoing basis throughout the construction phase. |
| 11 | Buildability generally | Restrictions due to adjacent structures that affect buildability | C, P | | DT,C | Design Team to consider adjacent structures that my affect how the building can safely be built i.e. structures that affect the use of cranes due to risk of oversailing etc. | | Ongoing | Impact on adjacent occupied buildings, adjoining highways etc. to be reviewed on an ongoing basis throughout the construction phase. |
| 12 | Use of plant and mechanical lifting equipment | Unplanned collapse of plant/equipment, damage to structures and infrastructure | C, P | | C | Relevant contractors to provide a lifting plan for all lifting activities to indicate location of mechanical lifting equipment/cranage and lifting zones. Tower crane (if used) to be positioned to minimize oversailing wherever practicable. | | Ongoing | Ensure that the control measures identified in the lifting plan and RAMS are implemented. |
| 13 | Existing Services | Contact with live services | C, P | | C | Service mapping information provided in PCI. PAS 128 Services Survey carried out and provided in PCI - It is highlighted that there is a HV Electric Cable running along the North and West edges of Site 1. Contractor to liaise with Statutory Undertaker as required. Any work carried out in the vicinity of service mains must be carried out in accordance with the Statutory Undertakers requirements. Main Contractor and any other relevant contractors must submit RAMS to the Statutory Undertaker prior to the respective work elements commencing. | | Ongoing | Contractor to arrange service disconnections prior to works commencing. Disconnection notices to be provided prior to commencement. Contractor must determine the existing service locations of by way of a pre-start survey/exploratory works. All RAMS for works in the vicinity of existing services must be agreed with the Statutory Undertaker before the respective work elements commence. Contractor to ensure that the control measures identified in the RAMS are implemented, including any methods/systems of work required by the Statutory Undertaker. |
| 14 | Building maintenance | Injury caused due to cleaning and maintenance works | P, M, EU | | C, DT | Design Team to develop cleaning and maintenance strategy to ensure the following can be accessed, cleaned, and replaced safely:<br>• Windows<br>• Roofs & Rooflights<br>• Gutters<br>• Internal and external M&E fittings<br>• Large items of plant and equipment<br>• Manholes | | Ongoing | Maintenance Strategy to be provided in Final H&S File/Handover Pack and End Users/Maintenance Contractors to provide Method Statements/RAMS for proposed works and implement accordingly. |
| 15 | Future work on the building and associated infrastructure | Work at height including roof access, manual handling, restricted working space, contact with live services etc. | M, EU | | DT,C | Design Team to provide details of civil and structural design criteria including key principles incorporated into the design e.g. bracing, sequences or order of removal, temporary works envisaged to alter or demolish, and design safe working loads for structural elements, particularly where these may preclude placing scaffolding or plant when future works are undertaken, for inclusion in the H&S File.<br>Design Team and Contractor to provide design statement including key design principles, maintenance & cleaning access strategy, fire strategy and residual risk information for inclusion in the H&S File.<br>Designers/Contractors preparing M&E designs to provide details of maintenance requirements for M&E services installation including access & maintenance strategy and plant replacement strategy, for inclusion in the H&S File.<br>Contractor and relevant subcontractors to provide H&S File information upon completion, including residual risk information, method statements for items of work that could require specialist dismantling by the end user, technical data for hazardous materials that may be present upon completion, technical information sheets for any specific material or plant that has been installed, maintenance information for equipment and materials installed, manufacturer's guarantees, etc. | | | Provide final H&S File/Handover Pack and End Users/Maintenance Contractors to provide Method Statements/RAMS for proposed works and implement accordingly. |
| 16 | Future demolition of the buildings | Injury/death caused by uncontrolled collapse | M, EU, P | | DT,C | Demolition statement for inclusion in the H&S File. | | Ongoing | Provide final H&S File/Handover Pack and Future Demolition Contractors to provide Method Statements/RAMS for proposed works and implement accordingly. |




## Topographical Survey Legend

| | | | |
|---|---|---|---|
| Bin | Litter bin | TL | Tie line |
| BH | Bore Hole | TP | Telegraph pole |
| Bol | Bollard | TPS | Tactile paving slabs |
| BS | Bus stop | TS | Traffic signal light |
| BT | British telecom ic | TV | Television cover |
| CPS | Concrete paving slabs | VP | Vent pipe |
| DR | Drain | WM | Water meter |
| Elec | Electrical Ic | WO | Wash Out |
| EP | Elec. pole | UTL | Unable to lift |
| ER | Earth rod | | Fence annotation |
| FH | Fire Hydrant | B/W | Barbed wire |
| FP | Flagpole | C/B | Closed boarded |
| FT | Floodlight | C/I | Corrugated iron |
| G | Gully | C/L | Chain link |
| GP | Gate post | C/P | Concrete panel |
| GV | Gas valve | H/R | Hand rail |
| IC | Inspection cover | I/R | Iron railings |
| JB | Junction box | O/B | Open boarded |
| KO | Kerb outlet | P/C | Post & chain |
| LB | Letter box | P/R | Post & rail |
| LP | Lamp post | P/W | Post & wire |
| Mkr | Utility marker | W/M | Wire mesh |
| MP | Mile post | | Level prefix descriptions |
| MW | Monitoring Well | AL | Arch level |
| NP | Name plate | BL | Bed level |
| P | Post | CL | Cover level |
| PM | Parking meter | EH | Eaves level |
| RE | Rodding eye | FL | Floor level |
| RS | Road sign | IL | Invert level |
| rwp | Rain water pipe | PL | Parapet level |
| SP | Sign post | RH | Roof/ridge level |
| ST | Stop tap | SL | Soffit level |
| SB | Service Box | Spr | Arch springing level |
| SV | Stop valve | Top | Top of pipe/culvert |
| TCB | Telephone call box | WH | Wall height |
| TH | Trial Hole | WL | Water level |

| SURVEY STATIONS | | | |
|---|---|---|---|
| STN1 | 299131.882 | 516284.051 | 108.184 |
| STN2 | 299070.696 | 516321.275 | 107.035 |
| STN3 | 299023.336 | 516282.033 | 102.606 |
| STN4 | 299044.210 | 516258.470 | 102.569 |
| STN5 | 299025.817 | 516207.485 | 100.304 |
| STN6 | 299065.607 | 516179.774 | 99.784 |

Notes:

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| REV: | DATE: | DESCRIPTION: | BY: |
|---|---|---|---|
| A | 15.06.23 | Various amendments following receipt of End-User proposals. | SD |
| B | 11.07.23 | Block 3 reconfigured and moved to accommodate Electric Cable and Retaining Structure on the North boundary of the Site. 2no Motorcycle spaces omitted. | SD |
| C | 02.08.23 | Block 3 FFL amended to match latest SE Earthworks drawing(s).. | SD |

north

0m 5 10 15 20m

## MATERIAL KEY

- Air Entrained Concrete Finish to Service Yard
- 450 x 450mm Concrete Paving Flags, shading indicates tactile paving
- Tactile paving and dropped kerb
- Bit Mac parking spaces
- Bit Mac Road
- Bit Mac Pavement
- Gravel Infill
- Grassed areas
- Steel Bollards at Vehicular Access Shutters
- Vehicular Armco barrier - to SE Detail
- Retaining Structure with pedestrian handrail along top - to SE Detail
- Retaining Structure with pedestrian handrail & vehicular Armco barrier along top - to SE Detail
- Site boundary

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CLIENT:
Northern Trust

PROJECT:
Sneckyeat Industrial Estate
Whitehaven

DRAWING NUMBER:
**22123-PJA-00-ZZ-DR-A-1203-C**

DRAWING TITLE:
Site 2
Proposed Site Plan

STATUS:
**PLANNING**

| SCALE: | DATE: | BY: | CHECKED: |
|---|---|---|---|
| 1:200@A1 | 19.05.23 | PP | PP |

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