ATKINS

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Early Phase Demolition

Outline Method Statement

South Tees Development Corporation

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5192474-EPD-MS-001

Notice

This document and its contents have been prepared and are intended solely as information for South Tees Development Corporation and use in relation to items forming part of the Early Phase Demolition Schedule.

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1. Introduction

1.1. Purpose

The purpose of this document is to present an outline method statement for the areas and items forming part of the Early Phase Demolition. These include, as presented on the drawings contained within Appendix A, Areas 1, 3, 8, 9 and 10. Items that are to be demolished as part of these works comprise material handling conveyor belts, stores and buildings, these are presented in full in Section 1.8.

This outline method statement has been written to inform the Local Governing Authority and as part of Section 80 Demolition Notice, to present the key works and considerations in advance of any site demolition activities commencing.

A Principal Contractor (PC) is to be appointed following contract award and it should be recognised that the responsibility for the demolition works shall lie with them. Atkins Limited assumes no responsibility to this regard and this document serves to highlight key considerations only.

The works are to be carried out in line with all the PC's own Method Statement together with their policies and procedures, including all relevant Task-Specific Safe Working Procedures.

The works are to be carried out in line with all current relevant legislation and regulations and comply with BS 6187:2011 Code of Practice for Full & Partial Demolition, including the below mentioned regulations:

- The Control of Substances Hazardous to Health Regulations 2002;
- Health and Safety at Work Act 1974;
- Control of Asbestos Regulations 2012;
- Environmental Protection Act 1990; and,
- As part of the works the PC will abide by the STDC site rules and receive a local induction to the site.

It is anticipated the works will be notifiable under the CDM 2015 regulations.

1.2. Demolition Schedule

The works are to include all demolition and deconstruction of structures presented in the Contract Drawings contained within Appendix A, and as summarised below.

Selected site photographs are included in Appendix B.

Table 1 – Demolition Schedule Summary

Area	Unit Ref – Item	Area (m^2)	Construction	Comments
1	Instrument House	10	Brick, wood and concrete roof	Extents to be confirmed
	Store Buildings (RDL Store)	5873	Steel beams, brick and sheeting	Asbestos risk identified
	Fan House & Stand	12	Brick, wood and concrete roof. Steel stand.	-
	Oil Tanks	21	Steel tanks, brick bund	Contamination risk identified
	Old Canteen	720	Steel, brick front and steel frame sheeting	Asbestos risk identified
	Fabrication shop sub-station and transformer	83	Steel and brick	Asbestos risk identified

Area	Unit Ref – Item	Area (m^2)	Construction	Comments
3	Tube City Garage	732	Steel beams, brick and sheeting	Asbestos risk identified
8	Conveyor Tail Unit and Conveyor Unit 171B	50	Steel beams and sheeting	Contamination risk identified
9	Conveyor Tail Unit and pit conveyors	-	Steel beams and sheeting	Contamination risk identified
	Traverse Pit	-	Concrete walls, steel plant and beams	Contamination risk identified
10	Coal Handling Welfare	139	Steel beams, brick and concrete roof	Asbestos risk identified
	Coal Handling Control Room	280	Steel beams, brick and concrete roof	Asbestos risk identified
	Coal Handling Conveyors and Junction Houses	-	Steel framing	-

1.3. Site Location

The sites are located in the former Redcar Steel Works which is secured by fencing and patrolled on a regular basis.

Area 1, which includes structures forming the canteen, store, fabrication unit and instrument building, is located within the eastern area of the South Tees Development. It borders redundant rail infrastructure to the north and is served by an existing tarmacked access track.

Area 3, located south west of Area 1, comprises a single steel framed structure which housed the former 'Tube City Garage'. This is bordered by an area of hardstanding.

Area 8 is single linear conveyor belt tail unit (P2) of approximately 300m length surrounded by broadly flat hardstanding ground. This is located broadly north of the Northumbrian Water Processing Plant.

Area 9 comprises three conveyor belt structures, all of approximately 500m length and a single traverse pit of 90m length by 12m wide by 2.5m deep. This area borders Area 10 to the west, which comprises the former Redcar Material Handling Conveyors of elevated steel framed structures linked by nine junction boxes, blending bunker and a control room.

The STDC site is to be accessed and egressed from the vehicular gate, with the areas listed above accessed via the main STDC road network

Refer to Drawing Ref. STDC-ATK-EPD-ZZ-DR-Z-0008 available in Appendix A.

1.4. Works Segregation

The PC is responsible for ensuring the work area is suitably segregated and secured within the site boundary and that no harm will come to members of the public or any other 3rd party.

The Contractor will take responsibility for the site boundary (CDM Site). The Contractors operations and segregation will control the CDM area and it shall be confined and limited to within the site fencing. The CDM project site fence will be installed using a 2.2-meter-high "heras" fence with suitable supports to form a safe and secure exclusion for the works. Th principle contractor will maintain security patrols out with the working time to prevent unauthorised access to the CDM area.

Warning signs are to be displayed in pertinent positions leading up to the areas and around the boundary fence of each area. The boundary of each area is anticipated to be the outer extent of the exclusion zone which will be

supplemented with internal double clipped Heras style fence required to form an Active Demolition zone (ADZ) but generally as indicated in the site plan in Section 4.

The site compound may be located in Area 3 adjacent to fabrication shop.

Welfare units and works parking may be located within each area and segregated with crowd barrier and signage.

The site gates, including areas access points, shall be secured during working hours. The security of the site shall be monitored for evidence of trespass and break ins.

1.5. Utilities and Services

All service disconnections and isolations shall be carried out beyond the site boundary prior to works commencement.
Disconnections and Isolations are to be completed by the Client's suitably qualified and trained engineers who will issue the PC with isolation certificates and written confirmation upon completion. These records shall be held on site and form part of the completed Health and Safety File.

Water services are to be isolated by the Client at the nearest valve chamber and again the Client will provide the PC with written confirmation upon completion, these records shall be held on site.

As part of the works the oil tank(s) are to be decontaminated prior to any demolition works.

Any drainage outlets or interceptors to be capped by the client on completion of the works.

Isolation points will be fully identified and marked on a site drawing and clearly defined with pegs/signage on-site prior to the start of works.

1.6. Welfare

The PC is responsible for the provision of suitable welfare facilities for the duration of the works to comply with CDM 2015 requirements. The facilities may include a self-contained unit with generator, toilet, messing facilities and site office. The unit is suggested to be located as per the plan in Section 4 within a dedicated barriered area.

At time of writing, the United Kingdom is currently within the COVID-19 Pandemic.

The PC, prior to site commencement, should refer the current UK Government Guidance to ensure that their site practices align with any restrictions and measures required to ensure conformance. Typical practices currently comprise social distancing, sanitation stations and limiting workforce interaction i.e. staggered break times.

Further advice is provided by the Construction Leadership Council and Public Health England.

It should be noted that any guidance documents associated with above bodies are to be considered live documents and will be updated as the pandemic develops. Methods of working may potentially change as a result.

The risk of COVID-19 to employees and site staff is to be captured within the PC (and any sub-contractors) risks and method statements (RAMS).

1.7. Asbestos

Refurbishment & Demolition (R&D) Asbestos Surveys have been completed for each area, these will be made available to the PC prior to works commencing.

Prior to any works commencing the PC is to complete a review of each Asbestos Survey Report and its findings. These are to be forwarded on to the applicable contractors completing the asbestos removal in advance of any asbestos strip commencing.

All asbestos will be removed prior to commencing demolition of any structure. Asbestos identified at this stage are roof tiles, fire barriers, lagging and gaskets/joints of boiler pipes. In addition, asbestos is anticipated in mastic floor tiles and electrical flash guards.

These products will be removed in accordance with the Control of Asbestos Regulations (CAR 2012) and all current amendments. Any licensed asbestos removal will be completed by specialist sub-contractors under their task specific Asbestos Plan of Work.

Should any suspect material, in addition to the R&D Survey, be discovered during the course of the project, works are to stop immediately, and the site manager informed. The contaminated area will then be managed until a suitable asbestos management/removal plan has been implemented.

The PC site manager is to ensure all relevant clearance certificates are received for licensable works prior to demolition.

1.8. Demolition Works Scope

The following scope of works is anticipated as part of the Areas 1, 3, 8, 9 and 10;

- Site establishment.
- Erection of temporary barriers / fencing and signage to supplement the existing site boundary.
- Existing services location, isolation, and removal within building. Any remaining live underground services are to be identified and protected.
- Internal soft stripping and removal of asbestos.
- Demolition of superstructures down to ground level
- Crushing of demolition rubble to Class 6F2 specification and infill of voids.
- Approved infill and compaction in layers to any basements / voids
- General levelling of site to existing site contours using site won material.
- Removal of all arisings off site including recycled metal.
- Removal of any trip or fall hazards

1.9. Construction

The construction of each element to be demolished is summarised in Table 1. Some of the larger, more considerable structures are furthered upon below.

- The Fabrication Shop in Area 1 comprises steel column and beam portal frame construction with brick and tin cladding. Additional internal steelwork is present including walkways and platforms, as well 2no. overhead bridge cranes and associated structural steelwork.
- Tube City Garage within Area 3 similarly comprises brick clad steel column and beam portal frame with pitched tin and asbestos sheeted roof supported by steel roof trusses. Internal office areas are present along with two large steel shutter entrance doors.
- Area 10 comprises a number of elevated conveyor belts supported on braced steel column construction. Nine junction houses are present along with the drive unit, blending bunkers and control room. All structures are tin clad.

1.10. Site Finishes and Hand Back to Client

All floor slabs and hardstanding's are to be retained at this stage. The site is to be left level on completion, with any voids backfilled utilising on site crushed material. The brick work to the buildings, including any concrete, is to be crushed to a Class 6F2 specification and used to infill any voids or pipe channels, including the traverse pit within Area 9.

Any soil mounds to the conveyor belts are to be levelled and the site left in a level condition with no trip hazards prior to handing back to the client.

Existing roads and hardstanding areas, including site pathways and fence surrounding the site are to remain in place.

No remediation or sub surface works are to be undertaken as part of this project.

2. Method Statement Details

2.1. Overall Scope of Work

The scope of works covered within this method statement consists of the above ground demolition of all structures within each site area, with the demolition zones delineated onsite by the PC. This will include any associated plant and equipment.

- Establishment onsite including welfare facilities
- Secure the boundary
- Soft stripping of structures
- Asbestos removal
- Demolition of structures and process/clear arisings
- Level site
- De-mobilise

As well as the Health & Safety Management System developed by the PC, the Construction Phase Plan, Drawings, Specification and the Project Risk Assessments collectively make up the safe systems of work for these above-mentioned tasks.

2.2. Contract Timescale

The following contract timescales are anticipated. Finalised timescales shall be determined by the PC once appointed for the works:

- Site Mobilisation – **3 weeks**
- Demolition Contract timescale - **15 weeks**

Working Hours generally – Monday to Saturday 7.00am to 6.00pm

Sunday working is to be by agreement with the Client.

2.3. Pre-Commencement Surveys

Prior to commencement onsite the Contractor will undertake the following surveys to ensure there are compliant with the contract and applicable legislations.

This list is not exhaustive, the Contractor should undertake any further pre-commencement surveys to ensure the clients aims and brief are fully met.

- Baseline noise, dust and vibration assessments
- Ecology survey (see Section 2.7)
- Stakeholder engagement and communications (see Section 2.8)
- Dilapidation survey of existing roads and infrastructure
- Dilapidation survey of any boundary structures and services.

2.4. Plant & Equipment

It is anticipated that the following items of plant & equipment will be required:

Area 1

- 1no. 45 & 2no. 20 tonne demolition specification excavators with various attachments (selector grab, shear, buckets)
- Earthworks haulage plant – Articulated Dump Truck (Moxy)
- Mobile crusher

- Various RORO Skip Wagons & 40 Yard Skips
- Powder burning equipment
- Oxy propane cutting equipment
- Cold cutting equipment
- Various hand tools
- Motofog 100 dust suppression unit.
- Bunded fuel bowsers
- Heras Fencing (2.0 metres in height)

Area 3

- 1no. 45 & 1no. 20 tonne demolition specification excavators with various attachments (selector grab, shear, buckets)
- Earthworks haulage plant – Articulated Dump Truck (Moxy)
- Mobile crusher
- Various RORO Skip Wagons & 40 Yard Skips
- Powder burning equipment
- Oxy propane cutting equipment
- Cold cutting equipment
- Various hand tools
- Motofog 100 dust suppression unit.
- Bunded fuel bowsers
- Heras Fencing (2.0 metres in height)

Areas 8 and 9

- 1no. 20 tonne & 1no. 40 tonne demolition specification excavators with various attachments (selector grab, shear, buckets)
- 1no. fork lift
- Earthworks haulage plant – Articulated Dump Truck (Moxy)
- Various RORO Skip Wagons & 40 Yard Skips
- Oxy propane cutting equipment
- Cold cutting equipment
- Various hand tools
- Bunded fuel bowsers
- Heras Fencing (2.0 metres in height)

Area 10

- 2no. 45 & 1no. 20 tonne demolition specification excavators with various attachments (selector grab, shear, buckets)
- Earthworks haulage plant – Articulated Dump Truck (Moxy)
- Mobile crusher
- Various RORO Skip Wagons & 40 Yard Skips
- Powder burning equipment
- Oxy propane cutting equipment
- Cold cutting equipment
- Various hand tools
- Motofog 100 dust suppression unit.
- Bunded fuel bowsers
- Heras Fencing (2.0 metres in height)

Certification for the above plant & operative training is to be held at the work site.

This list is not an exhaustive list and that plant & equipment will be provided at a frequency to deliver the works in a safe manner and in accordance with the agreed programme of works.

2.5. Personnel

The following personnel requirements are anticipated however this is to be determined by the PC and any subcontractors performing site tasks. The number of site personnel stated below should be considered the absolute minimum.

- 1 x Full-time Site Manager overseeing the entire demolition schedule of works
- 1 x Visiting Offsite Senior Contracts Manager(s)

Each area is required to have the following;

- 1 x Site supervisor
- 2 x Plant Operators
- 1 x Crusher operator
- 1X Topman / small plant operators
- 2 x Labourers/Banksmen

2.6. Site Security

The former Redcar Steelworks Site is presently fully secured with a 3m high boundary chain-link fence to deter unauthorised access. The security of the site shall be monitored by the clients security guards in conjunction with the patrols of the wider site with programmed inspections out with working hours to be carried out. During working hours the security of the site and the maintenance of the fence line surrounding each ADZ shall be the responsibility of the PC.

2.7. Environmental Considerations

Prior to any demolition works commencing an ecological survey is to be carried out to confirm any presence of nesting birds or other sensitive wildlife. If required any nesting birds will be relocated as per regulations. The client has ongoing ecological surveys across site and will be carried out on the above structures, with mitigation measures put in place if required.

The PC is to execute the works sympathetically to the surrounding environment. During the works a watching brief is to be in place to ensure the controls are in place to control dust migration and they are suitable and effective.

Demolition dust will typically be controlled by applying water spray manually and remotely using a (MOTFOG 100 or similar) dust water spray cannon.

Banksmen will be positioned as required during works to ensure the controls in place are suitable and dust is being controlled and will not affect any adjacent properties. Where possible cold cut techniques shall be employed and Due to the location of the site being remote and industrial land with no local residual properties this will reduce any risk imposed also with the structures being of steel construction and cold cut using excavators reducing fume or dust release. During the crushing and demolition of the brick structures it is envisaged expected that water and dust control will be in place.

Drain points shall be identified prior to commencing and shall be managed as the works proceed to prevent flooding. Upon completion these are to be capped as required. Where it is expected that significant debris could enter the drains they should be protected with filter material and replaced regularly.

Demolition arisings are to be processed and segregated on site and loaded into the required transport to be removed off site to the licensed recycling or waste facility in line with the PC's Waste Management, Collection, Delivery and Recycling of Waste Policy. All waste vehicles leaving the site shall be covered using the vehicles automated net system as required and the waste transfer duty of care document completed.

Prior to demolition works commencing nearby boreholes shall be sampled and monitored to establish current background conditions within the local groundwater, or perched water within the made ground. These same

boreholes shall also be monitored and sampled during the demolition works to monitor any effect the works may have on the local groundwater or perched water within the made ground.

2.8. Continual Liaison

It is imperative that the works do not impact unduly or as a nuisance to any site stakeholders or boundary neighbours. Ongoing communications will be maintained with all stakeholders including South Tees Site company who manage remaining site infrastructure

Initial pre commencement meetings are to be carried out with all stakeholders within the direct vicinity of the site, informing them of the upcoming works and the anticipated duration; contact details will also be provided should they have any queries or concerns. Due to the traffic and vehicle interaction the traffic management plan will take this into account and communicated to Northumbrian Water and any Stakeholders.

The PC is to be the initial contact with any concerned parties to maintain good neighbourly relationship. Any complaints are to be communicated to the Client as soon as practicable.

2.9. Site Inductions & Training

All persons undertaking works on site are to be suitably trained and competent to carry out their tasks. All PC or subcontractors' operatives are to hold a CSCS card minimum and have undertaken both demolition activities and Asbestos Cat B training.

All plant operatives are to have relevant CPCS tickets or equivalent and have suitable experience undertaking demolition activities. All persons required to work on site will undertake a full site induction prior to commencing any works. The site inductions will be carried out by the PC. Programmed 'Toolbox Talks', 'Safety Meetings' and Briefings will be undertaken and records to ensure all person involved are engaged with the works continue their personal development.

All Site Managers are to be suitably trained and hold the relevant CCDO Supervisor/Manager Card or SSSTS/SMSTS as a minimum.

2.10. First Aid

First aid assistance is to be available from the trained first aiders on site. The PC is to confirm who these nominated individuals are and confirm they have had appropriate training.

The first aiders will be indicated on the first aid posters, which will be located around the welfare areas.

2.11. COSHH

Full set of COSHH Assessments are to be held on site by the PC / Site Managers for all materials that may be used during our works. Any new materials encountered will have a COSHH Assessment undertaken prior to commencement of use. It is expected that COSHH assessments shall be regularly checked to ensure they are relevant to the operations being carried out. This should take place at least once a year on release of the new EH40 standards (reassessed by HSE) or when operating circumstances change.

Burning equipment will consist of liquefied oxygen & propane gas, supplied in pressurised cylinders. The storage of these will be in designated security fenced areas or purpose designed security cages away from welfare and office facilities.

Fuel oil for plant will be stored in double bunded tanks, their location will take into account features such as drain systems. This will ensure in the event of catastrophic failure released liquids will be contained locally. Spill kits will be maintained near to fuel storage and refuelling areas.

2.12. PPE

The following site minimum PPE & RPE Requirements are recommended, however specific requirements are to be set out within the relevant method statements appropriate to each task.

- Cut resistant gloves
- Overalls
- Safety boots
- Light eye protection (LEP)
- Safety helmet
- Hi-vis vest/jacket or overalls.
- P3 filtered half masks

In addition to the above, sanitation stations including hand sanitiser, are to be provided around site in line with current UK Government advice. Task specific PPE such as face coverings for close proximity working should be determined by the PC (and any subcontractors).

3. Method Statement

The following method of works and tasks, presented within the sections below, are anticipated as part of the scope of works.

3.1. Site Set Up, Mobilisation of Plant and Equipment

- Take delivery of Heras Fencing at site.
- Take delivery of telehandler and skid steer loader.
- Take delivery of Self-Contained Welfare Cabin, Decontamination Units and Office Cabins.
- Take delivery of 22T & 45T Excavator(s) with attachments at site.
- Plant delivery;
    - All plant & equipment is to be delivered to site utilising low loaders.
    - All plant & equipment off loaded on level firm ground.
    - All deliveries will access site via access routes determined by the PC (in agreement with the Client).
    - When offloading, a banksman wearing hi-viz will be present at all times and will direct any traffic as required (in accordance with SWP 9).
- Operatives to erect Heras Fencing along site compound (office/boiler house area) of site as per site plan (in accordance with SWP 35).
- Welfare / office cabins etc. shall be delivered by HIAB and positioned on a level surface within site compound and have a specific lift plan.
- Refer to Site Layout drawing further on within the Method Statement showing indicative traffic routes and positioning of site compound.

3.2. Removal of Asbestos-Containing-Materials

Non-Licensable only – Licensed Material shall have been removed by specialist subcontractor prior to demolition works mobilising.

Refer to R&D Asbestos Surveys of each area.

- All asbestos removal activities shall be carried out in strict accordance with CAR 2012, HSE Asbestos Essentials Task Sheets and HSG227 - A comprehensive guide to managing asbestos in premises.
- Due to the nature of the asbestos removal identified within the Asbestos Survey, all shall be assumed, at this stage, as classed as Non-Licensed Non-Notifiable Works. Refer closely to R&D survey and utilise as a checklist once sections of removals are complete.
- All operatives carrying out works will require to be trained to Cat B Non-Licensed Asbestos Removal Standard, have an approved Asbestos Medical and be correctly face-fitted for a Sundstrom Half Mask Respirator (in accordance with Asbestos Essentials EM2).

- An Asbestos Waste Skip is to be suitably lined in 1000g polythene and located nearby the asbestos removal activity to minimise transit of materials. Disposal of material will be to an asbestos landfill cell nearby transported under a Section 62 Hazardous Waste Consignment (in accordance with Asbestos Essentials EM9).

Non-Licensed Asbestos Removal Activities- Floor Tiles

- Control access to the building to essential personnel only;
- Place warning signs at the entry and exit points;
- Identify and area of floor tiles to be removed;
- Use “Big Mutt” floor scrapers or shovel to remove the tiles. RPE and PPE worn by operatives as per SWP;
- Using handheld spray (wetting and surfactant agent) to dampen the area down as floor tiles removed;
- Tiles to be shovelled up and placed in asbestos bags or direct into skip; and
- Tiles to be loaded into skip as required.

3.3. Soft Stripping Works to Buildings

Following asbestos removal and issuance of clean air certificates, materials shall be soft stripped including combustible materials which are not limited to wood, plastic, electrical items, fluorescent tubes, lamps, glass, plaster board, etc. and all of which can be recycled.

Operatives using small hand tools will remove the non-structural soft strip materials from the work areas using portable access equipment to gain safe access.

Soft strip will be performed using shovels and nail bars, along with mattocks and hammers to remove timber.

Operatives are to lift any carpet tiles to the floors and place in a central area so that the skid steer can transport items to the relevant skip. All waste is to be removed either through window or door openings to allow the excavator with grab attachment to clear away and place in skips.

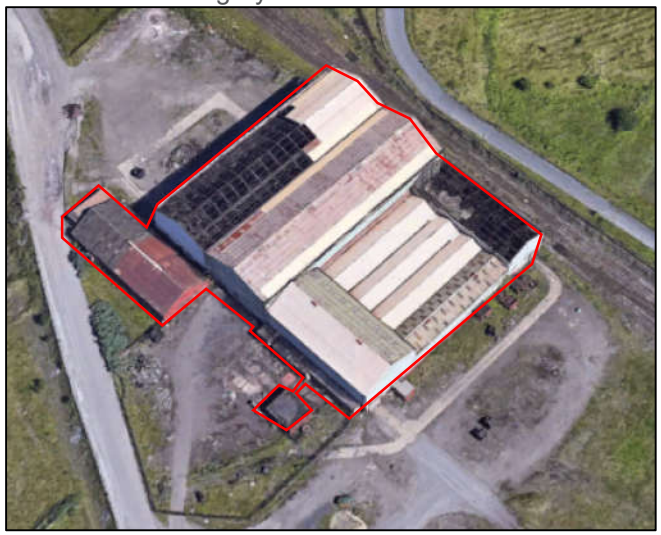
Throughout the soft strip, materials will be segregated and placed in separate containers except for general waste which will be mixed in one container.

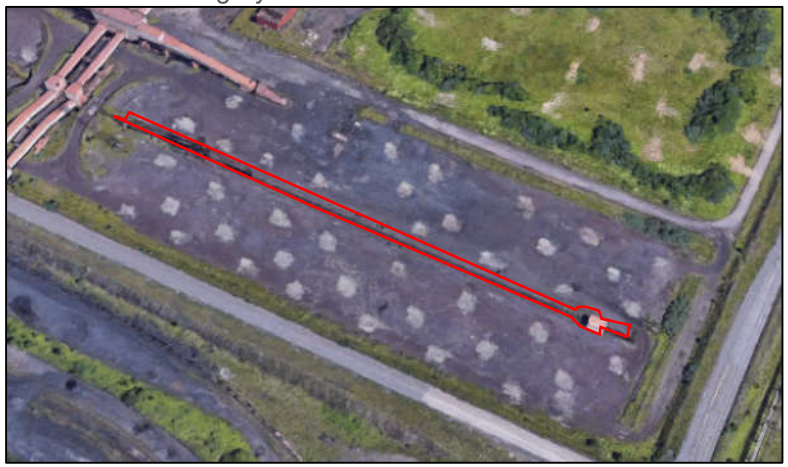
3.4. Mechanical demolition of all buildings & structures within project area boundaries

The following table outlines the mechanical demolition activities associated with each area.

The sequencing below is indicative only and is to be confirmed by the PC. In addition to the aerial imagery extracts below, see selected site photographs in Appendix B.

Table 2 – Mechanical Demolition

Area(s)	Notes	Images
1 & 3	All access restrictions to the structure are to be put in place prior to demolition activities commencing and a final inspection of the building/s will be carried out to determine it is safe to commence demolition operations. A motofog dust suppression unit will be positioned outside the demolition exclusion zone to secure the zone and supply dust suppression, as required. Commencing at the end elevation, a 45T 360 excavator will demolish the units in a bay by bay sequence, utilising its rotating shear / multi process attachment. Once each individual bay is demolished down to ground level, the demolition debris will be segregated by a second 20T excavator machine with grab attachment. This will be deposited directly to the corresponding recycling waste skip before the main 45T machine commences the next bay in sequence. The demolition excavators will drive over the former building bases/ground slab to minimise the interaction/disturbance to the surround soft landscape areas. The basement within Area 3 is to be infilled with processed demolition arisings created from the demolition of Area 1. This will demolition plant to access and to demolish the remaining structure in a bay by bay sequence, as outlined above.	Area 1 – Ariel Imagery  Area 3 – Ariel Imagery 

Area(s)	Notes	Images
Areas 8 & 9	Upon accessing the site, operatives will utilise hot works to form localised cut to the conveyor belts superstructure along its length. Assisted by a forklift, individual section will be held in place once the final HD bolts are severed from the individual base sections. The liberated frame section will then be relocated to a stockpile area for secondary processing / segregated via 20T 360 excavator fitted with multi-processor attachment. Area 9 Traverse Pit - Any existing water (assumed at this stage to be clean – inert/non-hazardous) will be pumped direct to site drain, expositing the full extents of the pit. Working at a safe distance / progressing forward, locally accessible above ground structure sections will be removed via the 20T 360 excavator with attachment & hot working. Accessible slag at the base of the pit will then be excavated and returned to client. The first section of pit will be infilled with Class 6F2 fill derived from Areas 1 and 3, forming a ramp into the pit allowing the excavator to move/ track forward progressing with the slag extraction / infrastructure removal. The pit, upon excavation of all waste material will be backfilled to adjacent ground level.	Area 8 – Ariel Imagery  Area 9 – Ariel Imagery 

Area(s)	Notes	Images
10	Heras fencing with fixed warning signage will be used to denote the perimeter of the demolition boundary (ADZ) and secure the site. In a predetermined sequence designed by the Contractors Structural Engineer, a team of operatives, assisted by a MEWP and mobile cranes (when required via sequence order) will firstly expose end connections of each conveyor line. This will be undertaken sections leading to the corresponding Junction Tower. Any cladding will then be removed to expose the frame, with any localised cleaning carried out to assist with the dismantling sequence, as required. Operatives will form pre-weaken cuts to the conveyor structures circa ½ metre away from each Junction Tower, fixing wire pull rope to the conveyor structure. Once this has been undertaken and all operations and plant are located a safe distance away, the 20T (or 45T) 360 demolition excavator will be pull out / complete controlled collapsed of the structure. Once all conveyors have been removed, all Junction towers / bunker structures will be targeted next. Wire ropes positions will be formed on the frame before the support columns will be pre-weakened (locations/method determined by the Contractors Structural Engineer) and the frame collapsed in a controlled manner. At ground level the demolition arising/debris will be processed via 360 45T excavator with shear attachment, supported by 20T 360 with grab & hot working as required. The heavy ground level plant identified as the barrel reclaimer and stacker will be processed working top down using a 45 tonne excavator with shear attachment, Cutting platforms and gantries from the equipment to leave the main structure following this the main barrel will be rolled into the Ballast area away from the coal and the item hot cut into manageable sections.	Area 10 – Ariel Imagery  

Notable Points

All rubble and brick work, scrap metal associated with the buildings will be stockpiled locally and this will be crushed into a 6F2 product using an excavator mounted crushing bucket or processing plant. This material will be used to infill any voids across site, including Area 3 basement. All scrap metal will be cut to a manageable size of approximately 5ft by 2ft and stockpiled for transport off site by others at a later date.

The surrounding soil within the site area will then be graded level using the excavator and bucket to remove any trip hazards and leave a safe level area.

- All demolition activities to be carried out in accordance with BS 6187:2011 Code of Practice for Full & Partial Demolition.
- The methodology and sequence of demolition is determined by the site manager to ensure a safe and controlled process and avoidance of any uncontrolled collapse of any structure.
- A suitable exclusion zone (ADZ) to be barriered off prior to any mechanical demolition commencing and all operatives briefed on activities.
- All machine operatives in direct contact with a banksman (in accordance with SWP 9) and site manager at all times through two-way radio communication.
- Others safe working procedures to be complied with are SWP 2, 8, 10, 11, 21.
- At the end of each shift trim off loose structure back to a strong point.
- Demolition will typically be carried out top-down and on a bay-by-bay basis and materials stockpiled in waste streams away from the workface as works progress.
- Once the buildings and structures have been demolished, the waste will then be extracted and loaded into designated 40Yd recycling bins.

3.5. Segregation of Arising Materials and Removal Off-Site of Waste

- Waste will be segregated at the demolition workface and loaded directly into 40 yard recycling bins.
- Skip and waste movements will be booked in advance and controlled under the Contractors Duty of Care Waste Transfer Notes, stating producer/registered haulier/registered recycling facility.
- Any wagons entering/leaving the site will be controlled by a banksman.

3.6. Grubbing Up Foundations and Crushing

- Floor slabs and foundations are to remain at this stage.
- All concrete will be processed to remove steel reinforcing bars ready for crushing.
- Material will be stockpiled in a windrow ready for crushing.
- Back fill open trenches/pipe tracks with site won material.
- Do not leave any open excavations overnight, always backfill or fence off with double clipped Heras style fence.
- Grade off footprint of building by utilising crush to taper off slab edges.
- All brick and concrete will be crushed to a 6F2 Specification and stockpiled on site in the designated area. The crusher will be positioned on firm level ground as required as per the safe working procedure.
- Water supply connected to the crusher and dust suppression used as required as crushing is carried out.

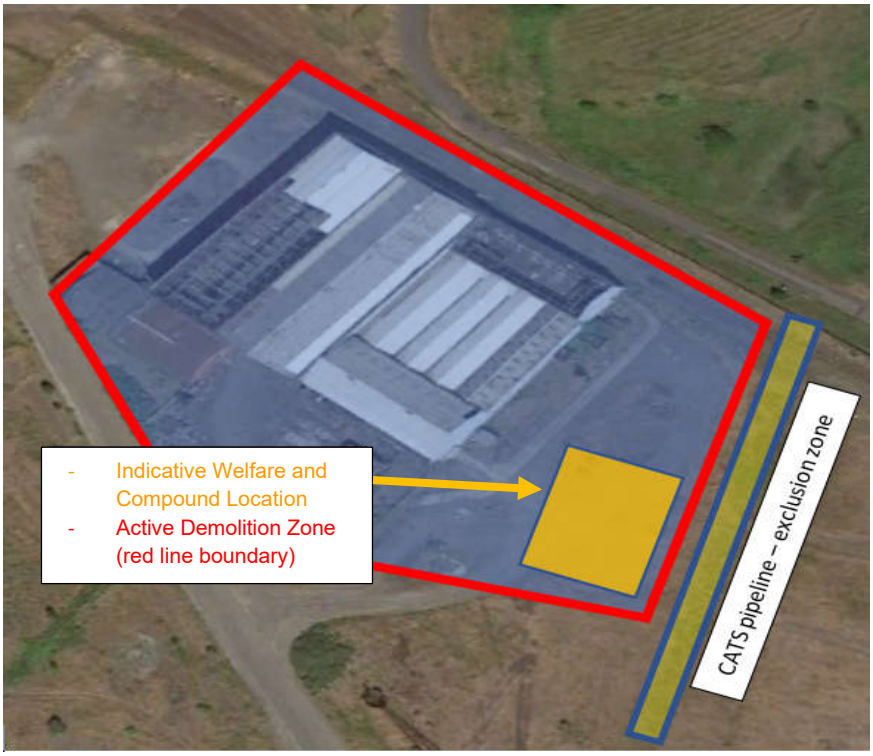
3.7. Site Finishes and Demobilise

- All unsafe edges, voids, trip hazards are to be infilled with site won material to leave site in a safe condition.
- Plant and equipment are to be demobilised in a reverse sequence to Section 3.1.

4. Site Location and Exclusion Zone Plan

The following marked up Arial imagery shows the potential site layout of Area 1 (only) for guidance only.

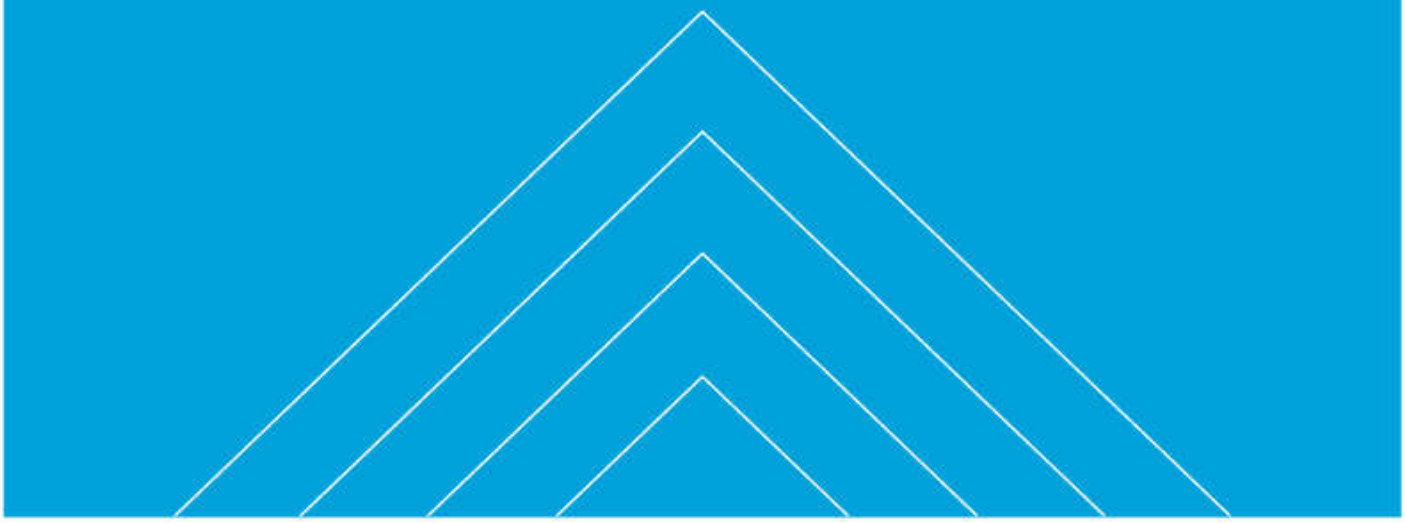
The establishment of the site layout and facilities required to undertake the works shall be determined by the PC.



The main entrance to the site is via the site road system and all accesses by the main security gate.

All operatives & visitors are required to sign in and out of site and shall be subject to a site induction. All vehicle movements to be strictly controlled by a banksman.

Appendices



Appendix A. Drawings

Drawing Reference	Title
STDC-ATK-EPD-ZZ-DR-Z-001	Demolition Location Plan
STDC-ATK-EPD-ZZ-DR-Z-002	Demolition Layout Plan Area 1
STDC-ATK-EPD-ZZ-DR-Z-003	Demolition Layout Plan Area 3
STDC-ATK-EPD-ZZ-DR-Z-004	Demolition Layout Plan Area 8
STDC-ATK-EPD-ZZ-DR-Z-005	Demolition Layout Plan Area 9
STDC-ATK-EPD-ZZ-DR-Z-006	Demolition Layout Plan Area 10
STDC-ATK-EPD-ZZ-DR-Z-007	Omitted - Not included as part of this scope
STDC-ATK-EPD-ZZ-DR-Z-008	Site Access Plan

DO NOT SCALE

Millimetres 0 10 100

REDCAR BLAST FURNACE

REDCAR COKE OVENS

THE FOUNDRY, REDCAR SITE AREA

REDCAR BULK TERMINAL

SOUTH BANK COKE OVENS

INSET A

SB 1

AREA 1

AREA 3

TMO

AREA 8

AREA 10

AREA 9

ACCESS ROAD TO AREA 9

NOTES:

1. ALL AREAS IDENTIFIED FOR DEMOLITION ARE FURTHER SSI ASSETS IN THE HANDS OF THE OFFICIAL RECEIVER
2. ALL SCRAP METAL, PLANT & EQUIPMENT TO BE RETAINED ON SITE FOR THE EMPLOYER.

KEY:

- AREA 1 STRUCTURES TO BE DEMOLISHED
- AREA 3 STRUCTURES TO BE DEMOLISHED
- AREA 8 STRUCTURES TO BE DEMOLISHED
- AREA 9 STRUCTURES TO BE DEMOLISHED
- AREA 10 STRUCTURES TO BE DEMOLISHED
- AREA SB 1 STRUCTURES TO BE DEMOLISHED
- STDC OWNERSHIP BOUNDARY - POST CPO

Rev.	Date	Description	By	Chk'd	App'd
T1	28.08.20	TENDER ISSUE	KW	AMS	TJM

STDC
Teesside Management Offices,
Redcar, TS10 5QW
www.southteesdc.com

South Tees Development Corporation

Project Title:

SOUTH TEES DEVELOPMENT CORPORATION EARLY PHASE DEMOLITION

Drawing Name:

DEMOLITION LOCATION PLAN

Drawn by: KW	Date: 21.08.2020
Checked by: AMS	Date: 28.08.2020
Approved by: TJM	Date: 28.08.2020
Drawing Number: STDC-ATK-EPD-ZZ-DR-Z-0001	Revision: T1
Drawing Scale: 1:3,000	Page Size: A1

DO NOT SCALE

Millimetres 0 10 100


CRANE 2


CRANE 3

STSCL South Tees Demolitions - Details Table					
Unit Ref	Name	Plan Area (m²)	Perimeter (m)	Construction	Additional Info
1	Instrument House (RBF 1/33)	10	12	Brick, wood and concrete roof	Exact contents to be determined
2	Stores Building (RDL Store)	5873	320	Steel beams, brick and sheeting	Asbestos risk in office areas. Roof tiles, fire barriers and lagging and joints of boiler pipes. Electrically operated overhead cranes to remove.
3	Fan House & Stand	12	14	Brick, wood and concrete roof. Steel stand.	
4	Oil Tanks	21	19	Steel tanks and brick bund.	Possibility of contaminated fuel oil left in tanks. Asbestos risk in joints and lagging of pipes.
5	Old Canteen	720	125	Steel, brick front and steel frame sheeting rear.	Asbestos risk in office areas. Roof tiles. fire barriers and lagging and joints of pipes.
6	Fabrication shop sub-station and transformer	83	36	Steel and brick	Asbestos risk in office areas, roof tiles, fire barriers and inside switch gear. Transformer oil and possible PCB Contamination.

UNIT 1

GARE ROAD (PUBLIC ACCESS)

SSI INACTIVE HOT METAL TRANSFER RAIL LINES

HARDSTANDING AREA - POTENTIAL SITE COMPOUND

UNIT 2

UNIT 3

UNIT 4

HARDSTANDING AREA - POTENTIAL SITE COMPOUND

UNIT 5

UNIT 6

R29 SITE ROAD

RED 2 SITE ROAD

PROPOSED SITE ENTRANCE

82 70 44 17 9 6 15 100.00

CATS

Teesside Works, Redcar


AERIAL

NOTES:

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
2. THIS DRAWING HAS BEEN PRODUCED WITH REFERENCE TO THIRD PARTY RECORDS, EVERY EFFORT HAS BEEN MADE TO PRESENT THE INFORMATION ACCURATELY. HOWEVER APPROPRIATE MEASURES MUST BE TAKEN TO ENSURE THE LOCATIONS OF THE BURIED SERVICES IF THEY ARE AFFECTED BY THE DEMOLITION WORKS.
3. ALL SCRAP METAL, PLANT & EQUIPMENT TO BE RETAINED ON SITE FOR THE EMPLOYER.

KEY:

- PROPOSED SITE BOUNDARY
- AREA 1 STRUCTURES TO BE DEMOLISHED
- CATS AREA OF INTEREST 50M EITHER SIDE OF PIPELINE
- CATS EXCLUSION ZONE 7.5M EITHER SIDE OF PIPELINE
- PALISADE SECURITY FENCE TO BE TAKEN DOWN UPON DEMOLITION COMPLETION
- BT — BT OPENREACH UNDERGROUND
- CATS — CATS PIPELINE
- POTABLE WATER MAIN
- PRIVATE FOUL DRAIN
- W — PRIVATE POTABLE WATER
- W — RWL FOUL WATER
- PRIVATE TELECOMS SITE NETWORK
- E — 11kv ELECTRICITY LOCAL SUPPLY
- X — CRANE NUMBER

TENDER

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T1	28.08.20	TENDER ISSUE	KW	AMS	TJM

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www.southteesdc.com

South Tees Development Corporation

Project Title:

SOUTH TEES DEVELOPMENT CORPORATION EARLY PHASE DEMOLITION

Drawing Name:

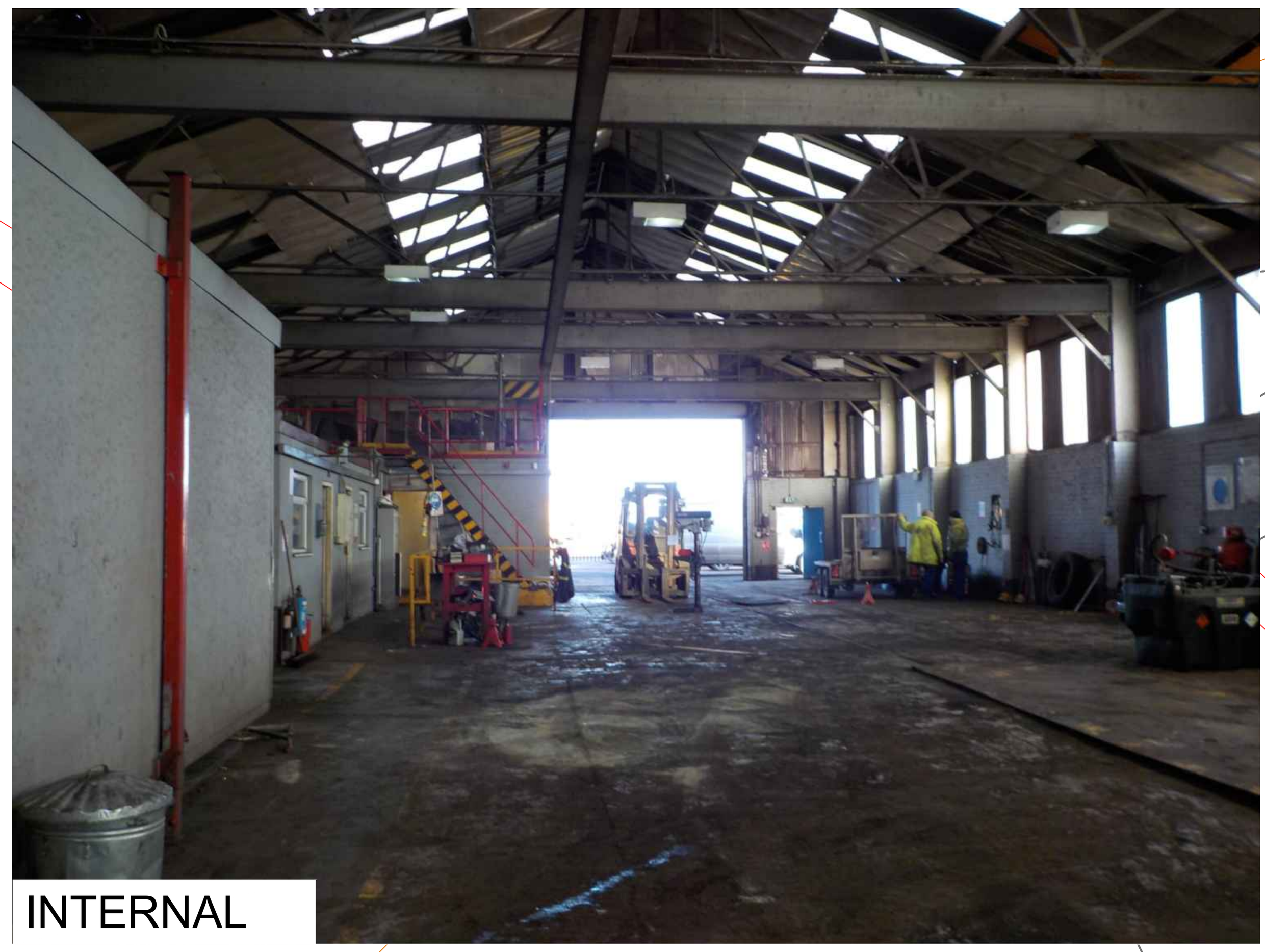
DEMOLITION LAYOUT PLAN AREA 1 REDCAR HEAVY STORE RDL

Drawn by: KW	Date: 21.08.2020
Checked by: AMS	Date: 28.08.2020
Approved by: TJM	Date: 28.08.2020
Drawing Number: STDC-ATK-EPD-ZZ-DR-Z-0002	Revision: T.1
Drawing Scale: 1:500	Page Size: A1

DO NOT SCALE

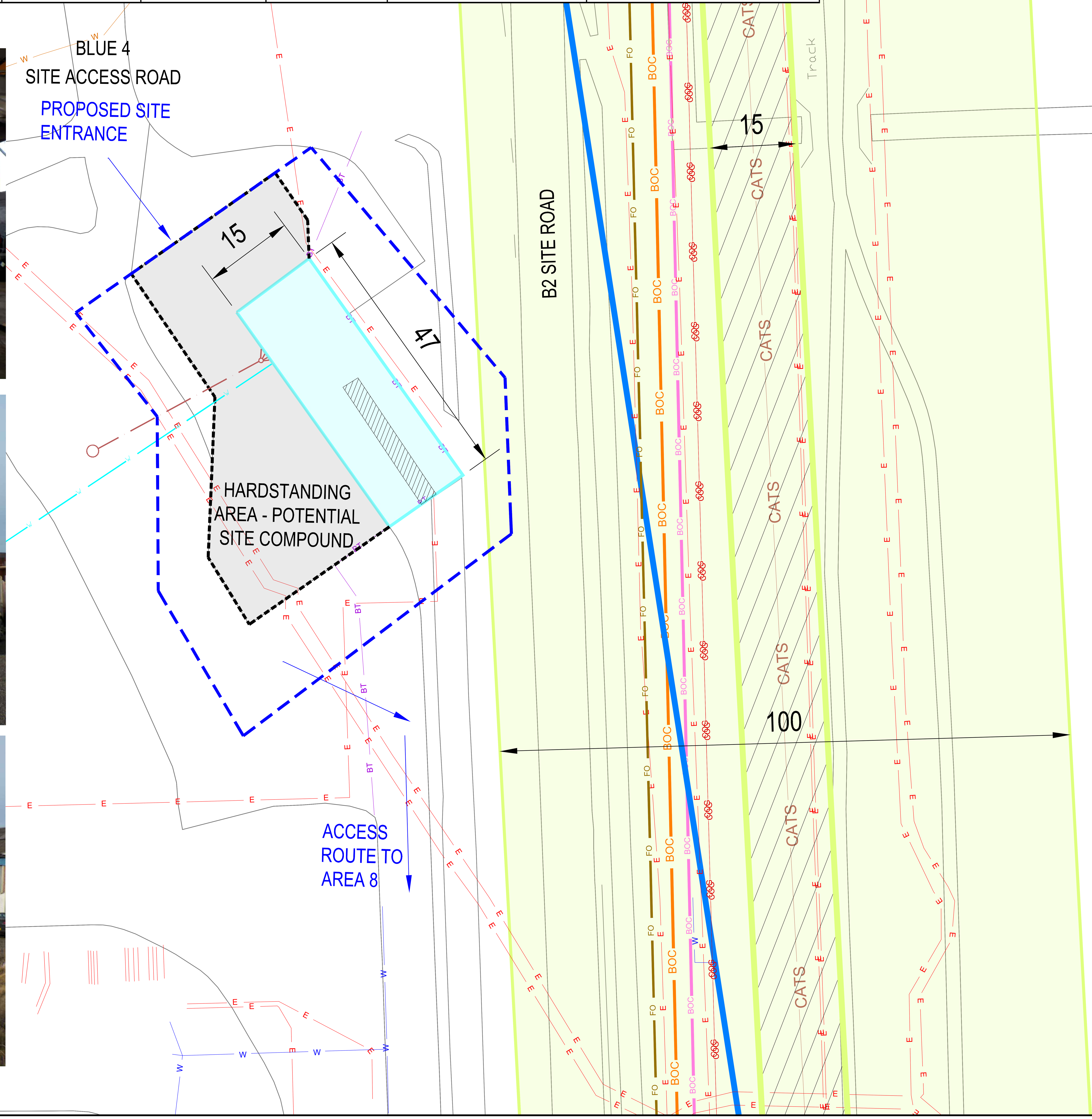
STSCL South Tees Demolitions - Details Table

Area	Name	Plan Area (m²)	Perimeter (m)	Construction	Additional Info
3	Tube City Garage	732	124	Steel beams, brick and sheeting.	Old loco repair shop. Asbestos risk in office areas, roof tiles, fire barriers, lagging and joints of boiler pipes.


INTERNAL


EXTERNAL 2


EXTERNAL 1



NOTES:

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3. ALL SCRAP METAL, PLANT & EQUIPMENT TO BE RETAINED ON SITE FOR THE EMPLOYER.

KEY:

- VEHICLE INSPECTION PIT (TO BE INFILLED)
- AREA 3 STRUCTURES TO BE DEMOLISHED
- PROPOSED SITE BOUNDARY
- PALISADE SECURITY FENCE TO BE TAKEN DOWN UPON DEMOLITION COMPLETION
- CATS PIPELINE
- BT OPENREACH UNDERGROUND
- BOC OXYGEN PIPELINE
- BOC NITROGEN PIPELINE
- COKE OVEN GAS MAIN ABOVE GROUND
- FUEL OIL PIPELINE
- POTABLE WATER
- CATS AREA OF INTEREST 50M
- EXCLUSION CATS AREA 7.5M
- PRIVATE FOUL DRAIN
- PRIVATE POTABLE WATER
- PRIVATE SURFACE WATER
- PRIVATE FOUL SEWER
- 11kv ELECTRICITY LOCAL SUPPLY

TENDER

Rev.	Date	Description	By	Chk'd	App'd
T1	28.08.20	TENDER ISSUE	KW	AMS	TJM

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Teesside Management Offices, Redcar, TS10 5QW
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South Tees Development Corporation

Project Title:
SOUTH TEES DEVELOPMENT CORPORATION
EARLY PHASE DEMOLITION

Drawing Name:
DEMOLITION LAYOUT PLAN
AREA 3
TUBE CITY GARAGE

Drawn by: KW — Date: 21.08.2020
Checked by: AMS — Date: 28.08.2020
Approved by: TJM — Date: 28.08.2020

Drawing Number: STDC-ATK-EPD-ZZ-DR-Z-0003 — Revision: T1

Drawing Scale: 1:400 — Page Size: A1

DO NOT SCALE

Millimetres 100 10 0

STSCL South Tees Demolitions - Details Table

Area	Name	Plan Area (m²)	Perimeter (m)	Construction	Additional Info
8	Conveyor tail unit (P2) Conveyor 171B	50	29	Steel beams and sheeting	Contamination due to product spillage to be removed.

Demolition Area 8 - Conveyor Details

Reference.	Max. Height	Min. Height	Approx. Conveyor Length	Conveyor Width	Junction House Plan Area	PCI Drawing Refs
Conveyor 171B	9.5m	Ground Level	307.8m	1.6m	-	ROP806, ROP807

NOTES:

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3. ALL SCRAP METAL, PLANT & EQUIPMENT TO BE RETAINED ON SITE FOR THE EMPLOYER.

KEY:

- PROPOSED SITE BOUNDARY
- AREA 8 STRUCTURES TO BE DEMOLISHED
- BT OPENREACH UNDERGROUND
- NPG
- FIBRE OPTIC CABLES
- POTABLE WATER
- INDUSTRIAL WATER
- HV SERVICE RESERVATION
- SURFACE WATER SEWER
- 11kv ELECTRICITY LOCAL SUPPLY

SUBSTATION

BLUE 9 SITE ROAD

Conveyor

Teesside Works Redcar

PROPOSED SITE ENTRANCE

AREA FOR MATERIAL STORAGE

308

8.68

5.84

CONVEYOR 171B

P2

JH169B

17

LT35

L Twr

BLUE MAIN SITE ROAD

RBT

RAIL LINES

LC

AERIAL

TENDER

Rev.	Date	Description	By	Chk'd	App'd
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South Tees Development Corporation

Project Title:

SOUTH TEES
DEVELOPMENT CORPORATION
EARLY PHASE DEMOLITION

Drawing Name:

DEMOLITION LAYOUT PLAN
AREA 8

Drawn by: KW	Date: 21.08.2020
Checked by: AMS	Date: 28.08.2020
Approved by:TJM	Date: 28.08.2020

Drawing Number:	Revision:
STDC-ATK-EPD-ZZ-DR-Z-0004	T1

Drawing Scale:	Page Size:
1:500	A1

DO NOT SCALE

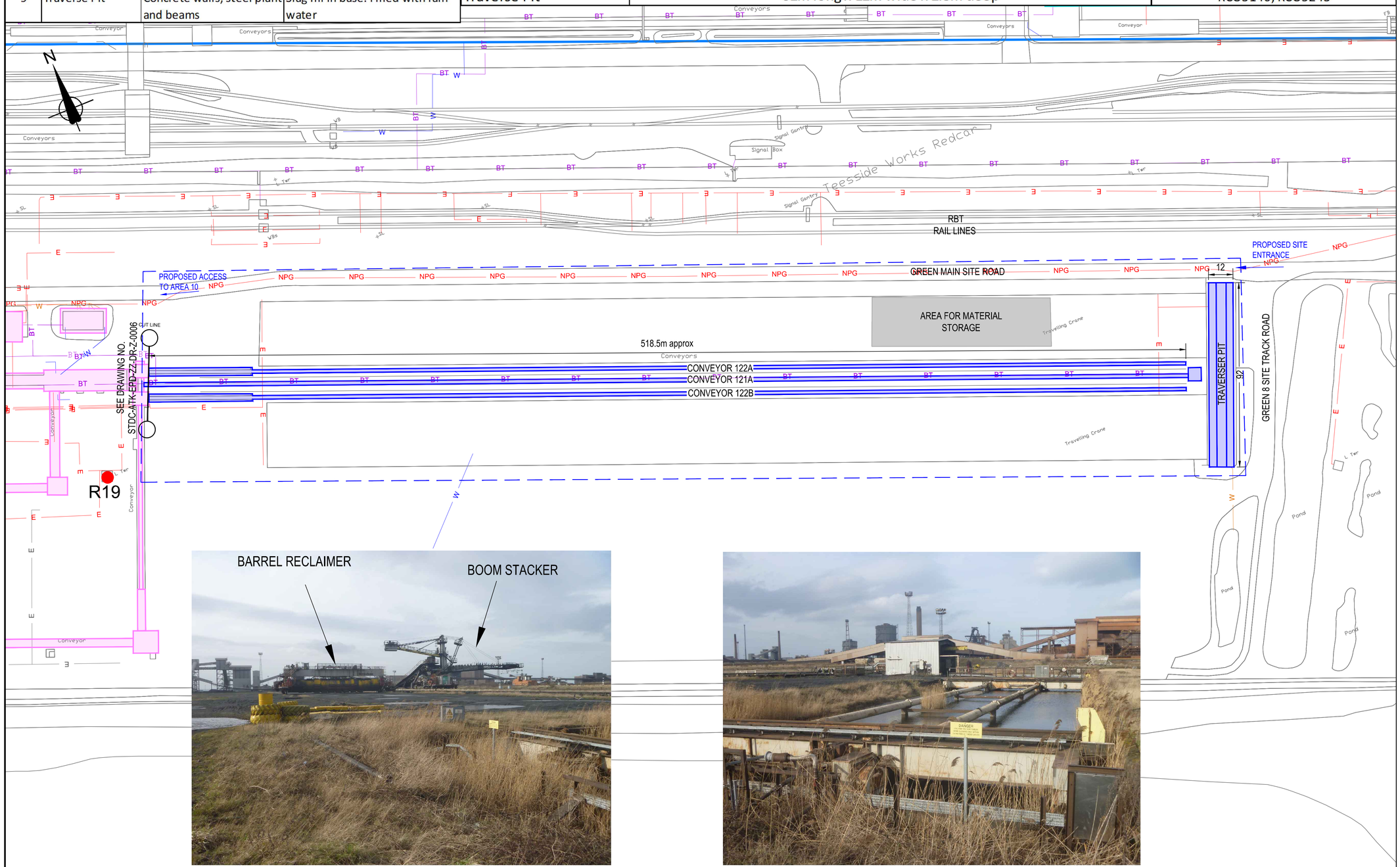
Millimetres 100 0 10

STSCL South Tees Demolitions - Details Table

Area	Name	Construction	Additional Info
9	Conveyor tail unit and pit conveyors	Steel beams and sheeting Steel and metal rollers	Contamination due to product spillage to be removed. Belts removed by others
9	Traverse Pit	Concrete walls, steel plant and beams	Slag fill in base. Filled with rain water

Demolition Area 9 Conveyor Details

Reference.	Max. Height	Min. Height	Approx. Conveyor Length	Conveyor Width	PCI Drawing Refs
Conveyor 122A	Ground Level		518.5m	1.5m	RCO2380, RCO2522
Conveyor 121A	Ground Level		518.5m	1.5m	RCO4566
Conveyor 122B	Ground Level		518.5m	1.5m	RCO2380, RCO2522
Traverse Pit	92m long x 12m wide x 2.5m deep				RCO3146, RCO5243



BARREL RECLAIMER AND BOOM STACKER
ON SITE TO REMAIN UNTOUCHED

NOTES:

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3. ALL SCRAP METAL, PLANT & EQUIPMENT TO BE RETAINED ON SITE FOR THE EMPLOYER.

KEY:

- AREA 9 STRUCTURES TO BE DEMOLISHED
- PROPOSED SITE BOUNDARY
- W — SURFACE WATER SEWER
- BT — BT OPENREACH UNDERGROUND
- W — PRIVATE FOUL DRAIN
- NPG — NPG 11kv ELECTRICITY
- E — 11kv ELECTRICITY LOCAL SUPPLY
- E — 3.3kV/ 440v ELECTRICITY LOCAL SUPPLY
- SITE POTABLE WATER
- R8 — LIGHTING TOWER TO REMAIN

TENDER

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South Tees Development Corporation

Project Title:

SOUTH TEES
DEVELOPMENT CORPORATION
EARLY PHASE DEMOLITION

Drawing Name:

DEMOLITION LAYOUT PLAN
AREA 9

Drawn by: KW	Date: 21.08.2020
Checked by: AMS	Date: 28.08.2020
Approved by:TJM	Date: 28.08.2020

Drawing Number:	Revision:
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Drawing Scale:	Page Size:
1:1000	A1

STSCL South Tees Demolitions - Details Table

Unit Ref	Area	Name	Plan Area (m²)	Perimeter (m)	Construction	Additional Info	PCI Drawing Refs.
1	10	Coal handling welfare	139	49	Steel beams, brick and concrete roof	Asbestos risk in office areas, roof tiles, fire barriers, pipe lagging and boilers	
2	10	Coal handling control room	280	70	Steel beams, brick and concrete roof	Asbestos risk in office areas, roof tiles, fire barriers, pipe lagging and boilers	RCO 3507
3	10	Coal Handling Conveyors And Junction Houses	See Below			Bolts removed by others	See Adjacent

Reference.	Max. Height	Min. Height	Approx. Conveyor Length	Conveyor Width	Junction House Plan Area	PCI Drawing Refs
JH109A	10m	-	-	-	114m²	RCO2522, RCO4675
Conveyor 110A	8.5m @ JH110	1.4m @ 109A	48m	1.8m	-	RCO1350, RCO1559, RCO2522
JH110	14.5m	-	-	-	128.7m²	RCO1350, RCO1559, RCO2522
Conveyor 111	12.5m @ JH111	6.75m @ JH110	20m	1.8m	-	RCO1350/3, RCO1559, RCO2522
JH111	18m	-	-	-	74m²	RCO1353, RCO1559, RCO2522
Conveyor 114	20m @ JH114	6.4m @ JH111	36m	1.8m	-	RCO1354, RCO1559, RCO2522
JH114	24.5m	-	-	-	66m²	RCO1353/4, RCO1559, RCO2522
Conveyor 115	14.35m @ JH114	-	70m	1.5m	-	RCO1354, RCO2522
Conveyor 126A	17m	Ground Level	110m	1.5m	-	RCO1843, RCO2902
Conveyor 126B	17m	Ground Level	110m	1.5m	-	RCO1843, RCO2902
Conveyor 125	38m @ BB	36m @ DU	22m	1.2m	-	RCO2522
Blending Bunkers	46m	-	-	-	553.6m²	RCO2522, RCO2565
Conveyor 124	20m @ JH123	39m @ DU	72m	1.5m	-	RCO2522
JH123	26.5m	-	-	-	119.8m²	RCO2263, RCO2522
Conveyor 123	20m @ JH123	2.4m @ JH122	112m	1.5m	-	RCO1845, RCO2263, RCO2522, RCO3188
JH122B	10.2m	-	-	-	45.8m²	RCO1845, RCO2522
JH122A	10.2m	-	-	-	45.8m²	RCO1845, RCO2522
Surge Bunker	32m	-	-	-	342m²	RCO1842, RCO2963, RCO2233
Conveyor 113A	27.2m @ SB	9.9m @ JH112	43m	1.8m	-	RCO1842, RCO2522
JH112	13m	-	-	-	85.5m²	RCO1842, RCO1707, RCO2522
Conveyor 112	16.2m @ JH112	3.3m @ JH111	70m	1.8m	-	RCO1707, RCO2522
DH112 (Drive House)	6m	-	-	-	76.5m²	RCO1707

NOTES:

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3. ALL SCRAP METAL, PLANT & EQUIPMENT TO BE RETAINED ON SITE FOR THE EMPLOYER.

KEY:

- REDCAR BULK TERMINAL BOUNDARY
- AREA 10 STRUCTURES TO BE DEMOLISHED
- AREA 9 STRUCTURES TO BE DEMOLISHED
- PROPOSED SITE BOUNDARY
- SURFACE WATER SEWER
- BT OPENREACH UNDERGROUND
- PRIVATE FOUL DRAIN
- NPG 11kv ELECTRICITY
- E 11kv ELECTRICITY LOCAL SUPPLY
- LOCAL POTABLE WATER
- PRIVATE POTABLE WATER
- PRIVATE TELECOMS SITE NETWORK
- R8 LIGHTING TOWERS TO REMAIN

DO NOT SCALE

Millimetres 100 0 10

POTENTIAL REQUIREMENT FOR TEMPORARY WORKS TO STABILISE REMAINING CONVEYOR STRUCTURE

REDCAR BULK TERMINAL RAIL LINES

PROPOSED ACCESS FROM AREA 9

GREEN MAIN SITE ROAD

AREA FOR MATERIAL STORAGE

CUT LINE

SEE DRAWING NO. STDC-ATK-EPD-ZZ-DR-Z-0005

LIGHTING TOWER TO REMAIN R16

LIGHTING TOWER TO REMAIN R18

LIGHTING TOWER TO REMAIN R19

JH109A, JH110, JH111, JH112, JH12, JH114, JH122A, JH122B, JH123

Conveyor 110A, CONVEYOR 111, CONVEYOR 112, CONVEYOR 113A, CONVEYOR 114, CONVEYOR 115, CONVEYOR 123, CONVEYOR 124, CONVEYOR 125, CONVEYOR 126A, CONVEYOR 126B

SURGE BUNKERS, BLENDING BUNKERS, DRIVE UNIT

SUBSTATION (TO REMAIN), WATER HOUSE, PUMPHOUSE

REDCAR COAL HANDLING CONVEYORS

Teesside Works, Redcar

Track

TENDER

Rev.	Date	Description	By	Chk'd	App'd
T1	28.08.20	TENDER ISSUE	KW	AMS	TJM

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Redcar, TS10 5QW
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South Tees Development Corporation

Project Title:

SOUTH TEES DEVELOPMENT CORPORATION EARLY PHASE DEMOLITION

Drawing Name:

DEMOLITION LAYOUT PLAN AREA 10 REDCAR MATERIAL HANDLING CONVEYORS

Drawn by: KW	Date: 21.08.2020
Checked by: AMS	Date: 28.08.2020
Approved by:TJM	Date: 28.08.2020
Drawing Number: STDC-ATK-EPD-ZZ-DR-Z-0006	Revision: T1
Drawing Scale: 1:750	Page Size: A1

DO NOT SCALE

Millimetres 0 10 100

N

RIVER TEES

REDCAR MATERIALS HANDLING CONVEYORS

SBCO GAS HOLDER

TMO

RDL STORE

TUBE CITY

SINTER PLANT STOCK YARD

WEIGHBRIDGE

TO MIDDLESBROUGH

A1085 TRUNK ROAD

TO REDCAR

REDCAR GATE ACCESS

KEY:

- Buildings and Structures to be Demolished
- SSI Ownership Boundary
- Access Roads to Demolition Areas
- Weighbridge

TENDER

Rev.	Date	Description	By	Chk'd	App'd
T1	28.08.20	TENDER ISSUE	KW	AMS	TJM

STDC
Teesside Management Offices,
Redcar, TS10 5QW
www.southteesdc.com

South Tees Development Corporation

Project Title:

SOUTH TEES
DEVELOPMENT CORPORATION
EARLY PHASE DEMOLITION

Drawing Name:

ACCESS ROUTES TO DEMOLITION WORK AREAS

Drawn by: KW	Date: 21.08.2020
Checked by: AMS	Date: 28.08.2020
Approved by: TJM	Date: 28.08.2020
Drawing Number: STDC-ATK-EPD-ZZ-DR-Z-0008	Revision: T1
Drawing Scale: 1:25,000	Page Size: A3

Appendix B. Photographs

Photograph 1 - Area 1

Photograph 2 - Area 3

Photograph 3 - Area 10 Conveyor Belts

Photograph 4 - Area 10 Reclaimer Stacker

Photograph 5 - Area 10 Barrel Reclaimer

Torquil MacLeod
Atkins Limited
200 Broomielaw
Glasgow
G1 4RU

Tel: +44 (0)141 220 2000
Fax: +44 (0)141 220 2001
Torquil.Macleod@atkinsglobal.com