

RISK ASSESSMENT 003 – Ground Clearance

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Contact with moving machinery parts	E	Cuts to hands or feet	3	4	12	- Staff not to put hands or feet under or into the cutting deck until the machine has stopped and the blades have finished rotating. - Staff to ensure safety devices and guards are in place and functional before use. - Staff to clear blockages in the cutting deck only when the machinery has stopped rotating and has been switched off with keys (if applicable) removed.	3	2	6
Working on uneven ground	E	Slips, trips and falls	3	3	9	- Staff to take care when working on uneven ground. - Staff not to become distracted by surroundings or other persons in the area. - Staff to take care when working on banked areas particularly in wet, frosty and icy conditions. - Staff not to operate equipment if the ground conditions are unsafe to be on.	3	1	3
Use of hand tools such as hedge cutters, spades, pruning saws etc.	E	Cuts to hands and arms	3	3	9	- Staff to be competent to use hand tools during ground clearance work. - Staff to wear the relevant PPE when using hand tools during ground clearance work.	3	1	3

Management

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At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
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PPE Requirements (PPE ASSESSMENT)

In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here.

Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.

Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
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Site Amendments: The responsible person on site must utilise this section for additions to the assessment.

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RISK ASSESSMENT 004 – Underground Services

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Task / Activity: UNDERGROUND SERVICES						Assessment Reference: 004			
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Preparing to dig holes or trenches	E	Failure to obtain plans and maps from utility service providers may lead to contact with buried services	4	4	16	- Plans and maps to be obtained before any work commences. - Where any doubt exists regarding the location of any services the utility company to be contacted and asked to visit site.	3	2	6
As above	E	Failure to use a locating device may lead to contact with buried services	4	4	16	- A locating device (such as a CAT - cable avoidance tool) to be used to locate the route of buried services before excavation starts and throughout excavation work. - Routes of services to be marked on the ground surface with either waterproof crayon, chalk or paint.	3	2	6
Digging holes and trenches by hand	E P	Use of power tools in areas where services are suspected may cause damage to buried services and injuries to user	4	4	16	- Where a locator indicates the presence of buried services all digging to be undertaken carefully by hand. - Additional care to be taken when using picks or insulated crowbars. - Staff to wear the relevant PPE, e.g. gloves and protective footwear.	3	2	6
Digging holes and trenches using excavating machinery	E	Failure to detect buried services may lead to excavator coming into contact with them	4	4	16	- Before an excavator is used, trial holes to be dug by hand. - Excavators not to be allowed to work within a 300mm radial distance of electricity cables. - All staff to be kept clear of the bucket and excavator whilst it is working in the vicinity of electric cables.	3	2	6
Digging holes or trenches (general)	E	Breaking up concrete that is surrounding an electricity cable may lead to damage and electric shock	4	4	16	Where concrete surrounding an electricity cable is to be broken up then the utility company to be asked to turn off the power before work commences.	3	2	6

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As above	E	Damage to services during digging operations may lead to a serious risk of injury	3	5	15	- If accidental damage occurs to a buried service, then the area to be left clear and the utility company contacted immediately to carry out any necessary repairs. - When damage is suspected the utility company to be asked to verify the safety of the excavation before any further work takes place.	3	2	6
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Management

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PPE Requirements (PPE ASSESSMENT)

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Type of PPE:								
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RISK ASSESSMENT 005 - Groundworks

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Task / Activity:			GROUNDWORKS / EXCAVATIONS			Assessment Reference: 005			
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Service Locations	E	Electrocution Explosion	5	5	25	- Review of service drawings and plans - CAT Scan of all areas within the works area - Marking and identifying of services - Hand Dig only within 1metre - If located protection of existing services from damage accidental contact	5	3	15
Carrying out excavation work by hand	E C	Excavation may collapse injuring staff if not adequately shored up	4	5	20	- Where possible, excavations to be carried out using machinery. - If being dug by hand, then sides of excavations to be adequately shored up using timber, trench boxes or hydraulic walling. Alternatively, the sides should be battered to a safe angle.	3	2	6
Staff working in excavations	E C	Material falling into excavations may cause injury to staff	3	3	9	- Protect edges of excavations with toe boards. - Spoil and materials to be kept away from excavation edges. - Staff to wear safety helmets when working in excavations.	3	1	3
Other staff and vehicles working in the vicinity of excavations	E C	Vehicles falling into excavations may cause serious injury to staff	3	5	15	- If the excavation is 2m or deeper, substantial barriers to be provided, e.g. guard rails and toe boards. - Vehicles to be kept away from excavations wherever possible. Use brightly painted baulks or barriers where necessary. - Where vehicles have to tip materials into excavations, stop blocks to be used to prevent them from over-running. Remember that the sides of the excavation may need extra support.	2	2	4
Staff working in and around excavations	E	Staff may be injured by being hit by moving plant	3	4	12	Staff to be kept separate from moving plant such as excavators. Where this is not possible, safe systems of work to be used to prevent people being struck.	2	2	4

At Risk	Severity	Probability	Risk Rating	NOTE
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Carrying out excavation work	E C	Staff coming into contact with buried electrical services may be seriously injured or killed	3	5	15	- No excavation work to commence until plans of buried services are made available. - Locating equipment to be used before any excavation work commences. - Staff to be trained in safe digging practices.	2	2	4
Carrying out work in excavations	E C	Staff working in excavations may be overcome by fumes from vehicle or plant exhausts	3	3	9	- Diesel engine equipment such as generators or compressors not to be sited at, or near, the edge of an excavation unless fumes can be ducted away or the area can be ventilated. - Staff to evacuate excavations at the first sign of the presence of fumes and report to their supervisor.	2	2	4
Preparing to start work in an excavation	E C	Excavation may collapse if in poor condition, injuring staff	4	5	20	A competent person to inspect all excavations before work commences or after any event likely to affect the strength or stability of the excavation.	3	2	6
Walking in the vicinity of excavations in public areas	E C V	Pedestrians falling into excavations causing personal injury	3	4	12	- All excavations in public places to be fenced off to prevent pedestrians and vehicles falling into them. - Where children might get onto a site out of hours, precautions to be taken (e.g. backfilling or securely covering excavations) to reduce the chance of them being injured.	2	2	4
Vehicle Movements	E C V	SEE RA 009 Vehicular Movement							
Underground Services	E C V	See RA 004 Underground Services							
Contaminated Land									

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RISK ASSESSMENT 007 – Construction Site Excavations (Large)

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Task / Activity: CONSTRUCTION SITE EXCAVATIONS						Assessment Reference: 007			
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Excavations - general	E C	Failure to plan excavations may lead to accidents to staff resulting in serious injuries	3	4	12	- All excavation work to be planned by a competent person. - Plans to be obtained from utility companies for all buried services prior to work commencing. - A safe system of work to be decided on before work commences and to be discussed with staff on site.	3	2	6
Setting out excavation work	E C	Failure to set out excavation work so it may conflict with other work causing accidents to staff resulting in serious injuries	3	4	12	- All excavation work to be set out and access routes discussed with staff. - Routes to be marked out for the use of excavating machinery and to be clear of pedestrian areas. - Pedestrian routes to be clearly set out and fitted with barriers/ fencing. - An accurate location of all underground services to be carried out by a competent member of staff using cable location devices and plans prior to opening any excavations. - All overhead power lines in the vicinity to be marked off using “goal posts” to prevent contact by excavating machinery.	3	2	6
Excavations using machinery	E C	Failure to use excavating machinery correctly may lead to overturning causing serious injuries or death to the operator	3	5	15	- Only trained, certified and authorised staff to operate excavating machinery. - Wheel stops to be used when tipping back fill into excavations when using dumper trucks. - Excavating machinery etc. to be kept away from the edges of excavations and to use planned traffic routes only. - Where considered necessary a banksman to be provided to direct machinery operations.	3	2	6

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RISK ASSESSMENT 007 – Construction Site Excavations (Large)

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Working in or near excavations	E C	Staff working in or near to excavations are at risk from falls or crushing if trenches are not securely fenced off and the sides collapse	3	5	15	- All excavations to be fitted with edge protection, i.e. double guard rails and toe boards. - All excavations to be shored up to prevent the collapse of the trench sides. A proprietary support system is to be used and the method of use to be agreed on site before excavation work begins.	3	2	6
Working in the vicinity of overhead power lines	E C	Contact with overhead power lines may lead to electric shocks causing serious burns or death	3	5	15	- Where overhead power lines exist, the site supervisor to liaise with the National Grid and the local electric supply company for advice on safe heights and distances. - Where it is unavoidable to cross the path of overhead power lines, a safe route is to be designated and agreed. This is to be marked using "goal posts" to restrict the height of any equipment that may cross below. - All such routes to be discussed with plant operators prior to access on site.	3	2	6
Access and egress from excavations	E C	Failure to provide adequate access and egress points from the excavation may lead to falls etc. causing physical injuries	3	4	12	- Safe means of access and egress to be provided to the excavation using ladders. - All ladders to be erected and positioned at an angle of 75 degrees or four metres up to one metre out at the base. - Ladders to be secured at the highest point with provision of at least 1.5 metres above the point of landing in order to provide an adequate handhold.	3	1	3
Stockpiling of materials adjacent to excavations	E C	Materials stored to close to an excavation may cause it to collapse resulting in injuries to staff	3	5	15	Materials to be stockpiled clear of the excavations and to be at least 1.5 metres away from the excavation edges.	3	2	6
Protecting excavations from other people	V P	Failure to secure open excavations may lead to people falling into them resulting in physical injuries	3	4	12	- All excavations to be back filled as soon as possible after completion of the work. - Where excavations need to remain open, then they are to be adequately fenced off and/or covered to prevent access.	3	1	3

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RISK ASSESSMENT 009 Vehicular Movement

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Task / Activity: VEHICULAR MOVEMENT						Assessment Reference: 009			
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Vehicles entering or leaving premises	P	Risk of injury from vehicles if unseen by the driver	4	5	20	- Pedestrian and vehicle routes to be marked out to give segregation. - Where possible, barriers to be installed to prevent pedestrians from walking onto areas where vehicles manoeuvre. - Signs to be displayed to indicate the separate areas. - Banksman to be in place to control driver's actions.	3	3	9
Reversing vehicles on site	E C	Risk of injury from reversing vehicles on site	4	4	16	- Avoid the need for reversing by providing one-way traffic systems on site. - Prohibit non-essential staff in designated reversing areas such as loading bays etc. - Reversing only to be carried out with the presence of a second person or Banksman to control pedestrian traffic.	3	2	6
Vehicles driving on site where blind spots exist	E C	Risk of injury from vehicles where blind spots exist on site	3	4	12	- Use of fixed mirrors at blind spots to help driver visibility. - Signs warning of poor visibility to be displayed. - Drivers encouraged to travel slowly and to use their horn when negotiating blind spots.	3	2	6
Vehicles driving on site above speed limit	E C	Risk of injury or vehicle collisions if vehicles are driven too fast on site	4	4	16	- Speed restriction signs to be displayed at relevant points on site. - Ramps to be provided to control speed. - Disciplinary action to be taken against speeding drivers.	3	2	6
Private vehicles and delivery vehicles on site	E C	Risk of pedestrians or drivers being struck by vehicles	3	4	12	- Area set aside for the parking of private vehicles and clearly marked. - Where necessary height restriction to be installed to restrict usage to cars and light vans only. - Car parking areas to be clearly marked.	3	2	6

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 009 Vehicular Movement

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Loading or unloading vehicles	E C	Risk of physical injury when handling loads	3	4	12	- Vehicles to drive close to loading bay so they can be loaded or unloaded on the level where possible. - Fork lift trucks operated by trained drivers to be used for lifting heavy goods.	3	2	6
Driving from site onto the highway	P	Risk of an accident if awareness of other traffic or traffic speed is not observed	3	5	15	- Warning signs to be displayed for vehicles leaving the site. - Halt signs to be in place prior to entering onto the highway. - Drivers to be aware of any local conditions, e.g. blind bends, dual carriageways etc.	3	2	6

Management

Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and all personnel trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.

PPE Requirements (PPE ASSESSMENT)

In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here.

Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.

Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓		✓		

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 009 Vehicular Movement

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Any additional PPE requirements?

Site Amendments: The responsible person on site must utilise this section for additions to the assessment.

Note for Managers / Supervisors:

- You must check that the control measures are relevant to the way the work is going to be done.
- Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered.
- Any hazards not already highlighted must be added in the Site Amendments section (above) along with the additional measures required to control these hazards.
- Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing).
- Please sign the assessment form:

Name: Signed: Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 012 – Mobile Excavators

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Task / Activity: MOBILE EXCAVATORS						Assessment Reference: 012			
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Delivering, unloading, reloading vehicle on site	E C	Mechanical failure; road traffic incident; contact with pedestrians others	3	5	15	50-point check to be completed prior to plant being loaded onto low-loader trailer. - Plant to be secured with ratchet strap, chains etc. at suitable fixing points. Process to be completed by trained and competent staff. - Vehicle to be driven to site with care. Road traffic laws to be followed at all times. - Suitable unloading area to be identified and agreed with client. - Ground conditions, overhead cables etc. to be checked by driver. - Unloading area to be secured to prevent unauthorised access. Area to be controlled by driver and plant operator (if on site). If necessary, cones and barrier tape to be used. - Process to be repeated when re-loading plant onto low-loader.	2	4	8

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 012 – Mobile Excavators

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Operating a mechanical excavator	E C	Overturning; mechanical failure; crashing into other vehicles/fixed objects; contact with pedestrians or others, injury to the operator (access/ egress)	4	5	20	- Only trained staff to be allowed to operate excavators - all operators must hold appropriate CPCS card for the plant. Operator to have CPCS card on their person at all times. - Operators to follow training and correct operating procedures for the vehicles at all times. This includes wearing seat belts, observing site speed limits, using designated traffic routes, using safety devices such as cameras, reversing warnings etc. - Operators to wear PPE identified as necessary for each site. Standard PPE to be worn: high visibility jacket/bib, hard hat, protective footwear. - Operator to check all safety features are in working order before starting work. - Area in which plant to operate to be secured with Heras/temporary fencing. "Warning Plant Operations" signs to be used. - Operator to check ground conditions suitability. - Service drawings/plans/CAT & Genny scan results to be checked. - Works schedule, method statement to be checked and agreed by all parties. - Excavators only to be used for their intended purpose. - When slewing in a confined area the selection of plant with minimal tail swing is preferred. Clearance of over 0.5m needs to be maintained between any part of the machine, particularly the ballast weight, and the nearest obstruction.	3	3	9
Use of attachments on excavators	E C	Mechanical failure; personal injury	4	3	12	- Only specified attachments to be fitted to excavators. - All attachments to be properly secured in accordance with the manufacturer's instructions. - Operators' training to include the methods for fitting attachments. - Quick hitches can be used to secure buckets to the excavator arm. Check that you are able to implement and manage any quick hitch used.	3	2	6

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 012 – Mobile Excavators

Project: C&S Energy BESS - Main Site Area Preparation & Excavation Works	Revision: 1	Date: 12/06/24	Page: 3 of 5
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Use of excavators close to trenches	E C	Trench collapse; plant overturning; personal injury	4	5	20	- Excavator operators to be trained so that they only operate the machine at a safe distance from any un-shored trenches. - Operators to ensure that the ground adjacent to trenches is capable of withstanding the machine weight. - No excavation work using the machine to take place whilst others are working in trenches.	3	3	9
Parking of excavators	E C	Personal injury; damage to plant and property	3	3	9	- All operators to park excavators in the designated parking area. - Operators to remove keys from their machine and keep them secure. - Machines to be parked with their jib arm lowered to the ground.	2	1	2
Access and egress from plant cabin	E C	Falls, slips	3	4	12	- Only access and leave the vehicle by the designated steps/access facilities - Ensure steps are kept clean and mud build up is cleaned off - Keep boots as clean as possible to prevent mud build up in the treads - Do not climb on the vehicle	3	2	6
Working in the vicinity of overhead power lines	E C	Contact with overhead power lines may lead to electric shocks causing serious burns or death	3	5	15	- Where overhead power lines exist, the site supervisor to liaise with the National Grid and the local electric supply company for advice on safe heights and distances. - Where it is unavoidable to cross the path of overhead power lines, a safe route is to be designated and agreed. This is to be marked using "goal posts" to restrict the height of any equipment that may cross below. - All such routes to be discussed with plant operators prior to access on site.	3	2	6

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 012 – Mobile Excavators

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Management

Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and all personnel trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.

PPE Requirements (PPE ASSESSMENT)

In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here.

Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.

Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓		✓		

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 012 – Mobile Excavators

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Any additional PPE requirements?

Site Amendments: The responsible person on site must utilise this section for additions to the assessment.

Note for Managers / Supervisors:

- You must check that the control measures are relevant to the way the work is going to be done.
- Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered.
- Any hazards not already highlighted must be added in the Site Amendments section (above) along with the additional measures required to control these hazards.
- Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing).
- Please sign the assessment form:

Name: Signed: Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 013 – Use of Dumpers

Project: C&S Energy BESS - Main Site Area Preparation & Excavation Works	Revision: 1	Date: 12/06/24	Page: 1 of 5
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Task / Activity: USE OF DUMPERS						Assessment Reference: 013			
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Delivering, unloading, reloading vehicle on site	E C	Mechanical failure; road traffic incident; contact with pedestrians, others	3	5	15	- Safety check to be completed on plant prior to it being loaded onto low-loader trailer. - Plant to be secured with ratchet strap, chains etc. at suitable fixing points. Process to be completed by trained and competent staff. - Vehicle to be driven to site with care. Road traffic laws to be followed at all times. - Suitable unloading area to be identified and agreed with client. - Ground conditions, overhead cables etc. to be checked by driver. - Unloading area to be secured to prevent unauthorised access. Area to be controlled by driver and plant operator (if on site). If necessary, cones and barrier tape to be used. - Process to be repeated when re-loading plant onto low-loader.	2	4	8

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 013 – Use of Dumpers

Project: C&S Energy BESS - Main Site Area Preparation & Excavation Works	Revision: 1	Date: 12/06/24	Page: 2 of 5
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Operating a dumper	E C	Overturning; mechanical failure; crashing into other vehicles/fixed objects; contact with pedestrians or others, injury to the operator (access/ egress)	4	5	20	- Only trained staff to be allowed to operate dumper - all operators must hold appropriate CPCS (or equivalent) card for the plant. Operator to have card on their person at all times. - Operators to follow training and correct operating procedures for the vehicle at all times. This includes wearing seat belts (where ROPS fitted), observing site speed limits, using designated traffic routes, using safety devices such as cameras, reversing warnings etc. - Operators to wear PPE identified as necessary for each site. Standard PPE to be worn: high visibility jacket/bib, hardhat, protective footwear, hearing protection. - Operator to check all safety features are in working order before starting work. - Area in which plant to operate to be secured with Heras/temporary fencing. "Warning Plant Operations" signs to be used. - Operator to check ground conditions suitability. - Works schedule, method statement to be checked and agreed by all parties. - Before moving off checks to be carried out to see that nobody is in the vicinity, particularly in the area obscured by the skip when going forward and behind the vehicle when reversing.	3	3	9
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At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 013 – Use of Dumpers

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Operating a dumper	E C	Overturning; mechanical failure; crashing into other vehicles/fixed objects; contact with pedestrians or others, injury to the operator (access/ egress)	4	5	20	- Designated vehicle routes and speeds to be kept to, appropriate for site conditions. - Directions given by traffic signs and signallers to be followed. - Load only to be completed on ground level with the parking brake applied. - No person to be on dumper when it is being loaded. - Checks to be made to ensure the skip is not overloaded. - Loads to be checked that they are evenly distributed and do not obscure visibility from the driving position. - When the machine is tipping into excavations when stationary the vehicle to be stopped, neutral gear selected and parking brake applied. - The parking brake to be applied, the engine switched off and the key removed when leaving the driver's seat. - No gradients steeper than those specified as safe for the specific bulldozer in the manufacturer's instructions to be driven. - Dumper controls not to be operated unless seated in the driving position. - Passengers not to be carried unless purpose-built seats are provided. - The vehicle not to be driven around the site with the skip in the vertical position.	3	3	9
Use of attachments	E C	Mechanical failure; personal injury	4	3	12	- Only specified attachments to be fitted. - All attachments to be properly secured in accordance with the manufacturer's instructions. - Operators' training to include the methods for fitting attachments. - Proper towing pins with jump-out restraints to be used.	3	2	6

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 013 – Use of Dumpers

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Use of dumpers close to trenches	E C	Trench collapse; plant overturning; personal injury	4	5	20	- Plant operators to be trained so that they only operate the machine at a safe distance from any un-shored trenches. - Operators to ensure that the ground adjacent to trenches is capable of withstanding the machine weight. - No dumping to take place whilst others are working in trenches.	3	3	9
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Management

Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and all personnel trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.

PPE Requirements (PPE ASSESSMENT)

In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here.

Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.

Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓	✓	✓		

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 013 – Use of Dumpers

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Any additional PPE requirements?

Site Amendments: The responsible person on site must utilise this section for additions to the assessment.

Note for Managers / Supervisors:

- You must check that the control measures are relevant to the way the work is going to be done.
- Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered.
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- Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing).
- Please sign the assessment form:

Name: Signed: Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 014 – Use of Bulldozer

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Task / Activity: USE OF BULLDOZER						Assessment Reference: 014			
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Delivering, unloading, reloading vehicle on site	E C	Mechanical failure; road traffic incident; contact with pedestrians, others	3	5	15	- Safety check to be completed prior to plant being loaded onto low-loader trailer. - Plant to be secured with ratchet strap, chains etc. at suitable fixing points. Process to be completed by trained and competent staff. - Vehicle to be driven to site with care. Road traffic laws to be followed at all times. - Suitable unloading area to be identified and agreed with client. - Ground conditions, overhead cables etc. to be checked by driver. - Unloading area to be secured to prevent unauthorised access. Area to be controlled by driver and plant operator (if on site). If necessary, cones and barrier tape to be used. - Process to be repeated when re-loading plant onto low-loader.	2	4	8

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 014 – Use of Bulldozer

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Operating a mechanical bulldozer	E C	Overturning; mechanical failure; crashing into other vehicles/fixed objects; contact with pedestrians or others, injury to the operator (access/ egress)	4	5	20	- Only trained staff to be allowed to operate bulldozers - all operators must hold appropriate CPCS (or equivalent) card for the plant. Operator to have card on their person at all times. - Operators to follow training and correct operating procedures for the vehicles at all times. This includes wearing seat belts, observing site speed limits, using designated traffic routes, using safety devices such as cameras, reversing warnings etc. - Operators to wear PPE identified as necessary for each site. Standard PPE to be worn: high visibility jacket/bib, hard hat, protective footwear. - Operator to check all safety features are in working order before starting work. - Area in which plant to operate to be secured with Heras/temporary fencing. "Warning Plant Operations" signs to be used. - Operator to check ground conditions suitability. - Service drawings/plans/CAT & Genny scan results to be checked. - Works schedule, method statement to be checked and agreed by all parties. - Bulldozers only to be used for their intended purpose.	3	3	9
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At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 014 – Use of Bulldozer

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Operating a mechanical bulldozer	E C	Overturning; mechanical failure; crashing into other vehicles/fixed objects; contact with pedestrians or others, injury to the operator (access/ egress)	4	5	20	- Designated vehicle routes and speeds to be kept to, appropriate for site conditions. - Directions given by traffic signs and signallers to be followed. - The parking brake to be applied, the engine switched off and the key removed when leaving the driver's seat. - No gradients steeper than those specified as safe for the specific bulldozer in the manufacturer's instructions to be driven. - Dumper controls not to be operated unless seated in the driving position. - Passengers not to be carried unless purpose-built seats are provided.			
Use of bulldozers close to trenches	E C	Trench collapse; plant overturning; personal injury	4	5	20	- Bulldozer operators to be trained so that they only operate the machine at a safe distance from any un-shored trenches. - Operators to ensure that the ground adjacent to trenches is capable of withstanding the machine weight. - No work using the machine to take place whilst others are working in trenches.	3	3	9
Parking of bulldozers	E C	Personal injury; damage to plant and property	3	3	9	- All operators to park bulldozers in the designated parking area. - Operators to remove keys from their machine and keep them secure.	2	1	2

Management

Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 014 – Use of Bulldozer

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PPE Requirements (PPE ASSESSMENT)

In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here.

Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.

Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓	✓	✓		

Any additional PPE requirements?

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 014 – Use of Bulldozer

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Note for Managers / Supervisors:

- You must check that the control measures are relevant to the way the work is going to be done.
- Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered.
- Any hazards not already highlighted must be added in the Site Amendments section (above) along with the additional measures required to control these hazards.
- Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing).
- Please sign the assessment form:

Name: Signed: Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 047a - HAND TOOLS

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Task / Activity: HAND TOOLS						Assessment Reference: 047			
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Using a screwdriver	E C	Choosing the wrong type may cause tool to slip leading to piercing injuries	3	4	12	- The correct type of screwdriver for the job to be chosen, e.g. using a Posidrive head for a Posidrive screw as opposed to a Philips head. - Longer length screwdrivers require less force to tighten or slacken screws, which will require less physical effort and thus giving more control.	2	1	2
Using hand tools during electrical work	E C	Using un-insulated hand tools on electrical work may lead to electrical shock or burn injuries	4	4	16	- Only insulated tools to be used when working on electrical equipment. - Insulation must be in good condition. - Mains supplies to be turned off before commencing work where possible. (Note - a separate risk assessment and a safe system of work will be required for live working.)	3	2	6
Using pliers or gripping tools	E C	Using an incorrect or damaged tool may cause it to slip leading to cuts and bruising	3	3	9	- The correct type and size of tool for the task in hand to be chosen. - Pliers and gripping tools to be maintained in a good condition.	3	1	3
Sawing metal, wood etc.	E C	Using incorrect type of saw can lead to saw jamming or jumping out causing cuts to hand/wrists	4	3	12	- The correct saw for the task in hand to be used, e.g. hacksaw for metal cutting, wood saw for woodcutting etc. - A good cutting technique to be used, i.e. even, steady strokes with even pressure.	3	1	3
Sawing metal, wood etc.	E C	Using saws with damaged blades such as missing or broken teeth can lead to the saw jumping out of workpiece and causing cuts to hands/wrists	4	3	12	- The condition of saw blades to be checked before use. - Saws with damaged blades should not be used. - Periodic hand tool checks to be introduced and faulty or damaged items to be replaced.	3	1	3

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
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RISK ASSESSMENT 047a - HAND TOOLS

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Using electric saws	E C	Missing guards or damaged blades, cables etc. on electrical saws can lead to injuries to hands, eyes etc.	4	5	20	- Guards to always be fitted and in position. - Blades to be checked for type and damage before use. - The condition of electrical cables to be checked and taken out of service if damaged. - Eye protection to be worn.	3	1	3
Using a hammer	E C	Use of hammers with loose heads can lead to impact injuries	4	2	8	- Hammer shafts to be in good condition and hammer head is securely fixed. - If damaged do not use and replace.	2	1	2
Using files	E C	Using files with damaged handles can lead to cuts to hand	4	2	8	- Always ensure that file handles are secure to the tang. - Files with damaged handles to be replaced.	2	1	2
Using chisels	E C	Incorrect use and storage of chisels or using damaged chisels can lead to personal injuries.	4	4	16	- Always use the correct chisel for the job in hand. - Chisels to be well maintained. - Don't strike wood chisels with a hammer (other than types designed for this activity, e.g. mortise chisels). - Keep chisel ends protected when not in use. - Eye protection to be worn where necessary.	2	1	2
Using spanners	E C	Using the wrong sized spanner can lead to it slipping causing hand/arm injuries	4	3	12	- The correct size and type of spanner to be used; ring spanners will give a better grip than open-ended ones. - Make sure any nuts or bolts have good faces that will allow the spanner to grip. - Don't use excessive pressure and use a releasing agent if nut or bolt is rusted.	3	1	3
Using knives	E C	Incorrect use of knife can lead to cuts to hands/arms	4	4	16	- Consider using a safer, alternative tool to carry out the task, e.g. a cable stripper, scissors etc. - Cut away from the body and the hand should be kept behind the blade. - Kevlar type gloves to be worn to prevent cuts.	3	1	3

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
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RISK ASSESSMENT 047a - HAND TOOLS

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Management

Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and all personnel trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.

PPE Requirements (PPE ASSESSMENT)

In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here.

Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.

Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓	✓	✓		

Any additional PPE requirements?

Hand, eye and ear protection is dependant on the item of tool being used and the task being undertaken.

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 047a - HAND TOOLS

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Site Amendments: The responsible person on site must utilise this section for additions to the assessment.

Note for Managers / Supervisors:

- You must check that the control measures are relevant to the way the work is going to be done.
- Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered.
- Any hazards not already highlighted must be added in the Site Amendments section (above) along with the additional measures required to control these hazards.
- Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing).
- Please sign the assessment form:

Name: Signed: Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 047b - Hand Tools

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Task / Activity: Hand Tools						Assessment Reference: 047b			
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Injury from the tool or material displaced by the use of the tool, eg wire brush bristles	A	Bodily Injuries to person	3	4	12	- Operative checks on the tool prior to use for signs of wear and tear. - Wearing eye protection, consider visors. - Rubber sleeved chisels. - Gloves. - Adequate space between workers. - Maintenance of the tool and replacements available when damaged.	3	2	6
Work related upper limb disorders	E	Musco Skeletal Injuries	3	3	9	- Ergonomic design of task, eg special tools, or use of power tools, eg electric nut runner. - Good lighting. - Good quality access equipment. - Job rotation. - Offsite fabrication where possible.	3	2	6
Dust	A	Chest Illness Long Term Illness	3	3	9	- Dampening Down. - Ensure tools with a water supply are used where possible and the function is used. - Wear masks and goggles in accordance with any assessment carried out under COSHH. - Forced air ventilation. - Use vacuum cleaner instead of sweeping. - Provide hoses and extraction units,	3	2	6

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 047b - Hand Tools

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Falls while using the tool or fall of the tool	A	Injury to persons Damage to equipment	3	4	12	- Use of harness/lanyard attached to the person/tool and work platform. - Safety catch nets. - Selection of work platform such as scaffolding or MEWP in preference to steps and ladders. - Use of a retractable lanyard for securing the tool to the toolbelt - Exclusion zone	3	2	6
Fire/explosion/electrocution	A	Burns Shock	5	4	20	- Carry out specialist risk assessment. - Ensure necessary emergency arrangements are at hand and in place.	4	2	8
Ergonomics	E	Muscle Strain Fatigue	3	3	9	- Selection of the best tool for the task. - Powered tools used where reasonably practicable.	2	2	4
Unauthorised use	A	Personal Injury Damage to equipment	4	4	16	- Secure the site and prevent unauthorised access/use - Lock away hand tools when not in use. - Ensure blades etc are removed after use and disposed of when they have been used.	1	1	1

Management

Monitor wearing of appropriate personal protective equipment

Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓	✓	✓	✓	

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 047b - Hand Tools

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Any additional PPE requirements? PPE will be specific to the tool and task undertaken, see operator/manufactures instructions for advised PPE requirements
Site Amendments: The responsible person on site must utilise this section for additions to the assessment.
Note for Managers / Supervisors: - You must check that the control measures are relevant to the way the work is going to be done. - Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered. - Any hazards not already highlighted must be added in the Site Amendments section (above) along with the additional measures required to control these hazards. - Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing). - Please sign the assessment form: Name: Signed: Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 236 - 180 &360 MACHINES

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Task / Activity: 180 &360 MACHINES			Assessment Reference: 236						
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Overturn of Machinery	A	Crush Injuries Damage to goods Damage to machinery	5	4	20	• Site assessed during pre start meetings with traffic management plans formulated. • Ground conditions assessed. • Daily inspection of plant by operator. • Weekly recorded inspection by the competent person • At induction provide awareness of traffic management plan. • Build banks at edge of slopes to prevent overturning. • Provide stop blocks for machines approaching the edge of an excavation. • Provide bog mats for working on unstable surfaces. • Wearing of seatbelts. • Operation only by competent person. • The operators of all plant and machinery must possess valid certificates and the site controller must have access to these prior to permitting anyone to operate any plant or machinery • Regular inspection by insurance engineer and maintenance fitter.	5	2	10

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 236 - 180 &360 MACHINES

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Contact with moving machines or pedestrians	A	Injury Death	5	4	20	- Separation of traffic from pedestrian routes. - Wearing of high visibility clothing. - Minimise reversing movements and follow traffic management plan - Exclude all people who are not directly involved in the work of the machine from the working area. - Maintain as a minimum 600mm clearance between the machine and any fixed structure. - Machinery movements to be under the control of a qualified banksman/slinger. - Use flashing beacon and horn. - Ensure that all workers have an agreed system for attracting the driver's attention before entering the danger zone. - If driver's view of pedestrians is obscured display warning signs. - Provide adequate temporary lighting. - Additional mirrors as necessary to ensure all around machine visibility at 1m from machine. - Reversing alarms. - Minimise movements of machine to work area, confine to less busy times of the day.	5	1	5
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At Risk	Severity	Probability	Risk Rating	NOTE
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RISK ASSESSMENT 236 - 180 &360 MACHINES

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Fall of material from bucket or forks/failure of lifting equipment.	A	Damage to machinery Injury to persons Damage to load	5	4	20	- Inspection and tests required by LOLER and plant & machinery to be assessed prior to delivery on site to ensure the appropriate equipment is made available - No lifting over people or carriage of loads on the highway, drivers of vehicles being loaded to stay within strengthened cabs or dismount and move to a safe area. - Secure loads by tested lifting accessories slung only to approved lifting equipment. - Provision of automatic safe load indicator or marking maximum safe working load (SWL) at maximum reach. - Manufacturer's handbook in cab. - Restrict use of fork attachments (provide fork lift truck). - Ensure buckets are properly locked on and secure prior to all manoeuvres. - Minimise travel distances of machinery when carrying loads.	4	2	8
Collision with plant or vehicles during mechanical handling	A	Injury Damage to other equipment	5	4	20	- Creation of specific site rules to identify where men are to take refuge during mechanical handling operations. - Use qualified banksman/slinger - Arrange the area to ensure it can be cordoned off	5	1	5
High pressure hydraulic fluid ejection	A	Injury to persons Damage to machinery Environmental	4	4	16	- Driver daily check - Competent person weekly recorded check - Maintenance in accordance with manufacturer's instructions. - Regular inspection for signs of wear. - Specialist repair. - Competent persons to use the machine.	4	2	8

At Risk	Severity	Probability	Risk Rating	NOTE
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RISK ASSESSMENT 236 - 180 &360 MACHINES

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Whole body vibration	E C	Musculoskeletal disorders for operatives	4	4	16	- Employees advised through induction and ongoing training to report any feelings of ill health and specialist professional health surveillance sought. - Provide system for monitoring health of operatives. - Use and maintain ergonomic adjustable seating and ensure drivers are aware of how to adjust and use it. - Maintain cab and chassis suspension and maintain main routes as free of bumps as possible. - Allow time to travel at appropriate speed over rough ground. - Selection of low vibration attachments for breaking. - Job rotation to be implemented if vibration levels are for a prolonged time.	4	2	8
Loss of bucket	A	Injury to person Damage to equipment	4	3	12	- Work area to be assessed and no persons permitted to work below the bucket - Boom/dipper arm to have a sign fitted stating the type of retaining system used on the machine - All personnel involved with this work must be trained on the safe use and operation of each bucket particularly with regard to removal and refitting. - Careful maintenance of securing pins or quick hitch. - Fitted with an independent secondary safety device.	4	2	8

At Risk	Severity	Probability	Risk Rating	NOTE
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RISK ASSESSMENT 236 - 180 &360 MACHINES

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Contact with underground or overhead services	A	Electrocution Loss of Services Explosion	5	4	20	- Carry out physical survey to identify locations of all buried services in accordance with HSG47 "Avoiding Danger from Buried Services". - Request services details from the client/principal contractor - CAT scans to be undertaken with the ground marked - Work around any services to be hand dig only, (No plant or machinery) and by trained operatives. - Provision and use of limiters on machinery if overhead services can not be removed. - Re-route work to avoid overhead or underground services or isolate. - If work must be undertaken close to services Prohibit storage of material near services and choose smaller machine, provide protection and indication of services by goalpost or signs. - Emergency procedure for cable strikes or contact with overhead power lines.	5	2	10
Falls from the machine	E C	Injury to operator	4	3	12	- Provide footwear with good grip. - Install handholds and non-slip materials to all areas of the machine for which access is required and clean regularly. - Prohibit passengers unless seats are provided. - Keeping the cab clear of tools, etc. - Provide training on access & egress from the cab - Methods of dismounting are to be monitored by the supervisor and jumping from the cab is not permitted. - Only use proprietary access routes/means -especially when securing anti vandal guards to the cabin.	4	2	8

Management

Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.

At Risk	Severity	Probability	Risk Rating	NOTE
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RISK ASSESSMENT 236 - 180 &360 MACHINES

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PPE Requirements (PPE ASSESSMENT)

In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here.

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Type of PPE:								
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Any additional PPE requirements?

At Risk	Severity	Probability	Risk Rating	NOTE
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RISK ASSESSMENT 236 - 180 &360 MACHINES

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Site Amendments: The responsible person on site must utilise this section for additions to the assessment.

Note for Managers / Supervisors:

- You must check that the control measures are relevant to the way the work is going to be done.
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Name: Signed: Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
C Contractors	2 Minor Injury	2 Unlikely	6 – 14 MEDIUM	
V Visitors	3 +7 Day Absence	3 Likely	15 – 25 HIGH	
P Public	4 Major Injury	4 Very Likely		
A All	5 Death	5 Virtually Certain		

RISK ASSESSMENT 240 - GROUNDWORKS GENERAL

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Task / Activity:			GROUNDWORKS GENERAL			Assessment Reference: 240			
ACTIVITY	PERSONS AT RISK	SIGNIFICANT HAZARDS	RISK			CONTROL MEASURES	RESIDUAL RISK		
			S	P	RR		S	P	RR
Service Locations	E C	Electrocution Explosion	5	5	25	- Review of service drawings and plans - CAT Scan of all areas within the works area - Marking and identifying of services - Hand Dig only within 1metre - If located protection of existing services from damage accidental contact	5	3	15
Excavations	E C	Excavation may collapse injuring staff if not adequately shored up	4	5	20	- Where possible, excavations to be carried out using machinery. - If being dug by hand, then sides of excavations to be adequately shored up using timber, trench boxes or hydraulic walling. Alternatively, the sides should be battered to a safe angle. - Protect edges of excavations with toe boards. - Spoil and materials to be kept away from excavation edges. - Staff to wear safety helmets when working in excavations. - If the excavation is 2m or deeper, substantial barriers to be provided, e.g. guard rails and toe boards. - Vehicles to be kept away from excavations wherever possible. Use brightly painted baulks or barriers where necessary. - Where vehicles have to tip materials into excavations, stop blocks to be used to prevent them from over-running. Remember that the sides of the excavation may need extra support.	3	2	6

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
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Excavations	E C	Excavation may collapse injuring staff if not adequately shored up	4	5	20	- Staff to be kept separate from moving plant such as excavators. Where this is not possible, safe systems of work to be used to prevent people being struck. - No excavation work to commence until plans of buried services are made available. - Locating equipment to be used before any excavation work commences. - Staff to be trained in safe digging practices. - Diesel engine equipment such as generators or compressors not to be sited at, or near, the edge of an excavation unless fumes can be ducted away or the area can be ventilated. - Staff to evacuate excavations at the first sign of the presence of fumes and report to their supervisor. - A competent person to inspect all excavations before work commences or after any event likely to affect the strength or stability of the excavation. - All excavations in public places to be fenced off to prevent pedestrians and vehicles falling into them. - Where children might get onto a site out of hours, precautions to be taken (e.g. backfilling or securely covering excavations) to reduce the chance of them being injured.	3	2	6
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At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
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Laying Slabs or Kerbs	A	Dust generated from Cutting Contact with Cementous Products Muscular Injuries	4	4	16	- Mechanical aids to be used to lift slabs and kerbs from vehicle, e.g. lorry mounted crane, fork lift truck etc. - Slabs and kerbs to be unloaded close to point of work. - Unloading areas to be kept clear of obstructions. - All packing to be removed immediately prior to use. - All packaging materials including strapping to be removed from worksite immediately after unpacking. - All staff to be trained in the use of hand tools. - Wheelbarrows not to be overloaded when handling sand, concrete etc. and staff to only handle loads within their capability. - Where possible concrete to be poured direct from the mixer to prevent manual handling. - Mechanical aids, such as vacuum lifters etc. to be used so far as is possible to prevent manual handling injuries. - Where scissor lifts are used then the operation to require two members of staff to complete the lift. - All staff to be trained in manual handling operations. - All staff to wear protective footwear. - All mechanical aids to be maintained in good working order. - Staff to report the failure of lifting equipment to their supervisor who will arrange the necessary repairs. - All staff to be trained in the use of all relevant mechanical aids. - Only concrete cutters fitted with diamond blades to be used to cut slabs and kerbs. - Water flow lubrication to be used to minimise dust. - Dust suppression equipment to be fitted to all mechanical cutters. - All staff to wear the appropriate PPE, e.g. eye protection, dust masks, etc.	3	2	6
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At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
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Post and Board Fences	E C	Connection with underground Services Contact with Cementous products Manual Handling and muscular injuries	4	3	12	- All excavations to be covered until fence posts are installed. - All excavations to be filled in as soon as possible after fence posts are installed. - All staff who handle fence panels and posts to have received training in manual handling techniques. - Fence panels and posts to be erected using two staff members. - Staff to wear relevant PPE. - All tools to be 110v and have a valid PAT test sticker displayed. - All tools to be inspected before use. - If any tools show signs of damage, they are to be quarantined until they have been repaired and certified fit for use. - All staff handling concrete to be provided with suitable - Staff to be informed of good hygiene practices, i.e. regular washing of hands and forearms. - All excavations to be backfilled to leave the ground at its previous level. - All residual spoil to be removed when work is complete.	3	2	6
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At Risk	Severity	Probability	Risk Rating	NOTE
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Post and Board Fences	E C	Connection with underground Services Contact with Cementous products Manual Handling and muscular injuries	4	3	12	- All delivery vehicles to be unloaded as close as possible to the worksite. - Only staff trained in manual handling to unload materials by hand and personal protective equipment (PPE) is to be worn. - Mechanical aids such as fork lift trucks etc. to be used to unload heavy materials. Only trained drivers to operate fork lift trucks. - All unloading by mechanical means to be under the control of a banksman. - Service plans for buried electrical services to be obtained before any digging commences. - If any doubts exist as to the presence of electrical services, then the area is to be swept using a cable detecting device (CAT and Genny etc.) and holes are to be dug by hand. - All hand digging to be carried out using long-handled shovels. - Good posture to be adopted when using picks or shovels. - PPE. - Staff to be informed of good hygiene practices, i.e. regular washing of hands and forearms. - All excavations to be backfilled to leave the ground at its previous level. - All residual spoil to be removed when work is complete.	3	2	6
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Management

Should any equipment be issued, it must only be issued to trained persons issued with all necessary PPE and all personnel trained to identify equipment inspection and reporting procedures and any hazards. No young persons are to be permitted access to this work practice or equipment.

PPE Requirements (PPE ASSESSMENT)

In many instances, you will be able to reduce risks further by asking staff/others to wear/use PPE. You should identify which items are required for the task here.

Note. PPE must only be considered as, when other control measures, such as guarding, local exhaust extraction, preventing noise at source, eliminating the need to work at height etc. are not possible. PPE should always be considered as a last resort option. PPE should only be worn when there is reasonable justification for doing so.

Type of PPE:								
	Head (BS EN 397)	Foot (BS EN 345-1)	Eye (BS EN 165:2005)	Hand (BS EN 420:2003)	Hearing (EN 352-1)	High-visibility Vest (BS EN 471)	RPE	Fall arrest (BS EN 361)
	✓	✓	✓	✓		✓		

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LOW	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
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Any additional PPE requirements?

Site Amendments: The responsible person on site must utilise this section for additions to the assessment.

Note for Managers / Supervisors:

- You must check that the control measures are relevant to the way the work is going to be done.
- Check the box confirming either that generic hazards and control measures are appropriate or that site specific amendments need to be considered.
- Any hazards not already highlighted must be added in the Site Amendments section (above) along with the additional measures required to control these hazards.
- Make sure everyone involved in the operation is fully aware of the contents of this Risk Assessment (where necessary use the reverse of the form to record the briefing).
- Please sign the assessment form:

Name: Signed: Date:

At Risk	Severity	Probability	Risk Rating	NOTE
E Employees	1 No Injury	1 Very Unlikely	1 – 5 LO W	The designated responsible person must ensure that the risk assessment is acceptable for the works and enter L (low), M (medium) or H (high) - where H has been entered contact Construction Safety (CS) Ltd for further advice and assistance.
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Document 11: Example material tracking form

CLEAN AND NATURAL (CAN) SOIL TRACKING FORM

*(To be completed for all transfers of CAN soils made under a
Greenfield, Brownfield or Bespoke Materials Management Plan)*

Part A

Donor site name and address:

Material transferred:

- ☐ Clean topsoil
☐ Clean and natural subsoil

Date:

Time:

Vehicle Reg:

Load: m³

Name of haulier:

Soil transferred to:

Signed (on behalf of Client or Contractor):

Name (print):

Signed by driver:

Name (print):

Part B

Receiving site name and address:

Arrival date:

Time:

Material as described above: ☐ Yes ☐ No

If NO answered above, provide details and action taken:

Signed (on behalf of Client or Contractor):

Name (print):