# EVENT SAFETY MANAGEMENT PLAN

# BLADE - INSTALLATION & OPERATION

version 1

CONFIDENTIAL

THIS DOCUMENT IS SUBJECT TO A NON DISCLOSURE AGREEMENT

# **DOCUMENT CONTROL**

# THIS DOCUMENT IS LIVE AND SUBJECT TO REVISION. PLEASE ENTER REFERENCES IN THE TABLES BELOW.

#### **AUTHOR CONTROL**

Name	Version	Action	Sections	Date
Chris Clay	1	DRAFT	all	3.11.16

#### RELEASE CONTROL

Name	Version	Release Date	Released to?
Chris Clay	1	6.11.2016	ESAG

#### Contents:

#### Section 1 - Overview

- 1.0 Event Overview
  1.1 Contacts & Project Team
  1.2 Licensing & Permissions
  1.3 Road Closures and Traffic
  Management
- 2.0 Safety Policy Statement2.1 Appointed Persons

#### Section 2 - Contractors and Personnel

- 3.0 Legislative duties
- **4.0** Responsibilities of Contractors
- 4.1 Accident and near miss reporting
- 4.2 Materials
- 4.3 Personal Protective Equipment
- 4.4 Segregation
- 4.5 Risk Assessment
- 4.6 Compliance
- 5.0 Access and Egress
- **6.0** Fire Safety
- 7.0 Medical Plan
- 8.0 General Site Conditions
- 8.1 Venue Special considerations
- 8.2 Smoking
- 8.3 Alcohol and drugs
- 8.4 Venue Facilities
- 8.5 Work at Height
- 8.6 Manual Handling
- 8.7 Lifting Operations
- 8.8 Ladders
- 8.9 Fatigue
- 8.10 Electricity
- 8.11 Equipment suspended at height
- 8.12 PPE
- 8.13 Waste Management

- **9.0** Contractors Risk Assessments and Method Statements
- 10.0 Schedule
- 11.0 Risk Assessments

#### Section 3 - Public and Audience

- 12.0 Crowd Management and Welfare
- 12.1 Stewarding plan
- 12.2 Evacuation plan
- 12.3 First Aid
- 12.4 Lost Children
- 12.5 Lost Property
- 12.6 Sanitary Facilities
- 12.7 Noise Management

#### Section 4 - Site Plans

13.0 Site plans

#### Section 5 - References

**14.0** References

#### Section 1 - Overview

#### 1.0 Event Overview

'Blade' is part of Hull UK City of Culture's Look Up programme, a year-long series of public art installations.

'Blade' will see the installation of a B75 wind turbine blade, manufactured at the new Siemens manufacturing plant in Hull, into Queen Victoria Square in Hull for a period of 3 months.

The installation will take place from midnight on Saturday 7<sup>th</sup> January 2017 and is scheduled to be completed by midday on Sunday 8<sup>th</sup> January 2017.

This project has been in development for a several months and Arup have delivered a full feasibility study, however the installation is planned to be a surprise to the general public and must therefore be treated as confidential.

Each blade manufactured at the Siemens plant is a unique handmade object and this inspired the artist, Nayan Kulkarni, to present one as a ready made artwork, echoing the work of conceptual artist Marcel Duchamp 100 years ago.

Nayan has written the following description of the work;

"At the start of the twentieth century the Futurists recognized the dawn of the machine age through their celebration of technology; the machine as a means to power and ultimately to war. We now know of a different way, we see differently and are learning to understand a new order of the machine. In this sense the blade of wind turbine, a harvester of energy, is more than a means to an end. It is a material fact, a weight, a pure form: a sculpture made in Hull.

Blade proposes to transform Hull's street scape through the imposition of a single wind turbine blade. As with J.G.Ballard's 'The Drowned Giant' or Richard Serra's 'Tilted Arc' this will be a profound material gesture, a spectacle, an obstacle and an object of wonder. This readymade artwork, up to 75 meters long, will divide the street forming a temporary impediment to a free flow. Carefully positioned it will force us to drift around its arabesque edges, our sight taking the place of the breeze. The twisting wing although inert, at rest in the street, speaks of movement but not of freedom.

Blade seeks to raise the status of the blade to art, positioning it in the history of material forms that transcend function pointing us towards beauty, reminding us of its relationship to the sublime.

Promoted as part of the 'Made in Hull' season 'Blade' will be an unforgettable physical manifestation, creating an opportunity for anyone to see what is made in the city in a way which will surprise, intrigue and engender pride. This blade will slice through a public space, amazing in its scale and physically breathtaking, an expression of a city at the forefront of sustainable technology."

Although not a public event, the installation of the wind turbine blade will have a considerable impact on the City on the day of installation and this ESMP deals with the public safety aspect of the installation.

In practical terms the installation of 'Blade' involves the transportation of a 75metre long wind turbine blade from the Siemens plant to Queen Victoria Square, where the blade will be lifted onto custom built supports. This requires a closure of the A63 and an abnormal load licence.

The project team comprises experts in their fields who have come together to realise this ambitious project. Full details of the project teams can be found in para 1.1.

#### 1.1 Contacts & Project Team

For ESAG members the main contact in the project team is:

Chris Clay Technical and Operations Director Hull 2017

Mobile no.: 07771 788 221

Email: chris.clay@hull2017.co.uk

The project team is made of four groups - the Delivery Team and three operational task groups who report into the Delivery Team.

Hull 2017 are working in partnership with a number of organisations who each bring their expertise to the project:

Hull 2017 Project lead; Artistic curation; Public safety; Budget management

Arup Engineering consultation; Project planning

ALE Abnormal load and lifting specialists

North Midland Highways engineers

Siemens Blade manufacturer and engineering expertise

Pearl Green Fabrication specialists

Humberside Police Public safety; traffic advice; prevention of crime

Hull City Council Major Projects Team; Highways; Transport Planning; Streetscene

Management

Membership and roles and responsibilities of the groups are outlined below:

#### **Delivery Team**

Responsibilities:

- To Implement the project within the agreed budget and timescales
- To manage planning
- To own and manage the project risk register
- To manage Health & Safety
- To inform communications

#### Membership:

Name	Organisation /	role
------	----------------	------

Richard Bickers (Chair) Arup

Sam Hunt Hull 2017 Executive Producer

Chris Clay Hull 2017 Technical & Operations Director
Ben McKnight Hull 2017 Director of Communications
Andrew Knight Hull 2017 Visual art programme curator
Hazel Colquhoun Hull 2017 Visual art programme curator

Nayan Kulkarni Artist

Hannah Williams Walton Hull 2017 Assistant Producer

Jason Speedy Siemens
Chris Wetherall Siemens

Garry Taylor Hull City Council, City Manager Major Projects

#### Transport Taskgroup

#### Responsibilities:

- To plan and implement the transport of the blade from the Siemens plant to QVS
- To plan and implement craneage and lifting operations
- To plan and implement the necessary removal and reinstatement of highway furniture
- To secure required transport and installation permissions
- To execute the transport and lifting operations
- To plan and implement the trail installation at the Siemens plant
- To plan the removal of the blade
- To review and contribute to the project risk register

#### Membership:

Name	Organisation / role
Richard Bickers (chair)	Arup

Javed Hussain Arup

Richard Townend Hull City Council, Highways

Paul Robinson Hull City Council, Transport planning

Anthony Granville Siemens
Dave Smith ALE

Name tbc North Midland
PC Darren Storr Humberside Police

Members of the delivery as required

#### Structures Taskgroup

#### Responsibilities:

- To design the supports for the blade
- To undertake design checks, in conjunction with Siemens
- To fabricate the supports
- To review and contribute to the project risk register

#### Membership:

Name	Organisation / role

Richard Bickers (chair) Arup
Martin McGovern Arup
Nayan Kulkarni Artist
Anthony Granville Siemens

Name tbc Pearlgreen engineering

Members of the delivery as required

# Operations and Installation Taskgroup Responsibilities:

- To plan the schedule for installation day
- To coordinate with other H2017 and City events
- To engage and consult with Humberside Police, local businesses, bus operators, taxi operators, Hull City Council and other stakeholders
- To organise volunteer support
- · To plan and implement security and stewarding
- To ensure public safety during the installation and removal of the blade
- To plan and implement a maintenance programme
- To plan and implement public and crisis communications
- To review and contribute to the project risk register

#### Membership:

Chris Clay (chair) Hull 2017, Technical and Operations Director

Richard Bickers Arup Milly Hennayake Arup

Andrew Knight Hull 2017, Visual art programme curator Hazel Colquhoun Hull 2017, Visual art programme curator

Richard Townend Hull City Council, Highways

PC Darren Storr Humberside Police

Dave Smith ALE

Helen Thackeray Hull City Council, Events team

Members of the delivery team as required

#### 1.2 Licensing & Permissions

The installation of 'Blade' does not involve any licensable activity, therefore a Premises License is not required.

'Blade' requires Highways permission and Richard Townend (Hull City Council, Highways) is securing this permission.

The Transport Taskgroup is securing the necessary transport permissions.

#### 1.3 Road Closures & Traffic Management

The installation of 'Blade' requires closures of the following roads and public spaces:

- A63 from Siemens plant to the junction with Ferensway
- Market Place / Lowgate
- Alfred Gelder Street
- Queens Dock Avenue
- Vernon Street
- Dock Street
- Saville Street
- Queen Victoria Square
- Carr Lane

The transport task group are engaging with Highways England, Humberside Police and Highway's England preferred traffic management company to plan and implement the road closures. A full traffic management plan will be submitted in due course.

#### 2.0 Safety Policy Statement

This document is provided as a supplement to the requirements placed in individuals and organisations by current Health and Safety legislation and contractual agreements. Compliance with this document should therefore not be regarded as fulfilling all the relevant statutory obligations pertinent to a particular individual or organisation, which remains their own responsibility.

In keeping with its overall objectives and in accordance with the requirements of the Health and Safety at Work Act 1974 and the Management of Health and Safety at Work Regulations 1999, The Organisers will take all reasonably practicable steps to ensure the health, safety and welfare of its employees, sub-contractors and public.

#### 2.1 Appointed Persons

The following persons have been appointed as responsible for public Health and Safety for the installation and removal of 'Blade':

Chris Clay: Technical & Operations Director, Hull UK City of Culture Ltd.

#### Section 2 - Contractors and Personnel

#### 3.0 Legislative Duties

All personnel and contractors undertake that during any works, they will comply with and will ensure that its employees and sub-contractors comply with all relevant safety, health and environmental legislation. At all times all personnel and contractors must take into consideration:

#### The Health and Safety at Work Act 1974

- 2(1) "It shall be the duty of every employer to ensure, so far as is reasonably practicable, the health, safety and welfare at work of all his employees"
- 3(1) "It shall be the duty of every employer to conduct his undertaking in such a way as to ensure, so far as is reasonably practicable, that persons not in his employment who may be affected thereby are not thereby exposed to risks to their health or safety."
- 3(2) "It shall be the duty of every self-employed person to conduct his undertaking in such a way as to ensure, so far as is reasonably practicable, that he and other persons (not being his employees) who may be affected thereby are not thereby exposed to risks to their health or safety."
- 7 "It shall be the duty of every employee while at work—
- (a) to take reasonable care for the health and safety of himself and of other persons who may be affected by his acts or omissions at work; and
- (b) as regards any duty or requirement imposed on his employer or any other person by or under any of the relevant statutory provisions, to co-operate with him so far as is necessary to enable that duty or requirement to be performed or complied with."

#### The Management of Health and Safety at Work Regulations 1999

- **3.**—(1) "Every employer shall make a suitable and sufficient assessment of—
  (a) the risks to the health and safety of his employees to which they are exposed whilst they are at work; and
- (b) the risks to the health and safety of persons not in his employment arising out of or in connection with the conduct by him of his undertaking, for the purpose of identifying the measures he needs to take to comply with the requirements and prohibitions imposed upon him by or under the relevant statutory provisions and by Part II of the Fire Precautions (Workplace) Regulations 1997.
- (2) Every self-employed person shall make a suitable and sufficient assessment of—
- (a) the risks to his own health and safety to which he is exposed whilst he is at work; and
- (b) the risks to the health and safety of persons not in his employment arising out of or in connection with the conduct by him of his undertaking, for the purpose of identifying the measures he needs to take to comply with the requirements and prohibitions imposed upon him by or under the relevant statutory provisions."

#### 4.0 Responsibilities of Contractors

All work activities must be undertaken as per contractors' risk assessment and carried out as per method statements, any work carried out that is deemed to be unsafe or unsatisfactory by a person responsible will be terminated immediately.

#### Contractors must:

- Provide a safe place of work and safe methods of carrying out the work
- Ensure that employees are competent and have the required knowledge and experience to carry out the work
- Ensure that adequate training and supervision for all staff is provided, where this is found necessary
- Ensure that all plant, equipment and tools are of the correct standard and type and are in good working order

#### 4.1 Accident and Near Miss Reporting and Investigation

All accidents, incidents and near misses must be reported without delay to a person responsible. An accident book will be available at all times. The person responsible will report incidents to the enforcing authority as required by the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (RIDDOR).

#### 4.2 Materials

All floor coverings, furniture, furnishings, scenery, props and drapes brought onto site must comply with the relevant standards.

#### 4.3 Personal Protective Equipment

The contractor shall provide, maintain and ensure the correct use of personal protective equipment (PPE) relevant to their task(s) where its use is required by legislation or identified in a risk assessment and/or method statement.

#### 4.4 Segregation

Contractors shall ensure that their equipment and material is segregated from others, is not left unattended and that clear access is maintained at all times.

#### 4.5 Risk Assessment

Contractors must provide written risk assessments of all potentially hazardous operations carried out by them. The risk assessments shall not be just generic but must contain elements specifically relating to this event.

#### 4.6 Compliance

Contractors shall comply with any health and safety and other accompanying documentation or instruction issued by a person responsible, together with their own written procedures. Failure to do so may result in a person responsible requiring the immediate removal of the company or individual involved from site, at no cost to the client or organisers.

#### 5.0 Accesses and Egress

The installation of 'Blade' will take place in Queen Victoria Square, an open public space in Hull City Centre.

Owing to the nature of the operations being undertaken it will be necessary to create a safe working area to which the public will not have access, in order to maintain public safety.

This safe working area will be created with physical barriers and will be stewarded, whilst maintaining access to and egress from, retailers and other premises in the area will be maintained.

The emergency services and other road users will be consulted regarding road closures.

#### 6.0 Fire safety

The installation of 'Blade' does not involve any processes that increase the risk of fire.

All contractors and personnel will be shown evacuation routes prior to any work commencing.

No hot works to be carried out without a permit.

If you do discover a fire, raise the alarm immediately.

Only attempt to fight a fire of doing so does not put you at personnel risk.

In the event of a fire all personnel should stop work immediately and evacuate the area without stopping to collect personnel belongings. Stewards will disperse any public that have gathered to watch the installation and will direct them to a place of safety.

Chris Clay (or other appointed person in his absence) will be responsible for calling the emergency services if necessary.

#### 7.0 Medical Plan

The installation of 'Blade' is not a public event and is taking place with in the public realm, therefore no medical plan will be put in place.

#### 8.0 General Site Conditions

#### 8.1 Venue - Special Considerations

Although the installation of 'Blade' will take place in a secure area without public access, all contractors must be conscious that the installation is taking place in a public space and must take such additional precautions necessary to ensure that no member of the public is placed at risk.

#### 8.2 Smoking

Smoking is only permitted in designated areas.

#### 8.3 Alcohol and drugs

All personnel and contractors are not permitted to consume alcohol prior to or during work sessions. Any person who is believed by a person responsible to be intoxicated through the consumption of alcohol or use of recreational drugs will be considered to be unable to carry out their duties safely and will be required to leave site.

#### 8.4 Venue Facilities

As the installation will be mobile throughout the night of January 7<sup>th</sup>, mobile catering facilities will be provided for all personnel engaged in the installation. Sanitary facilities during the night will be provided at Hull 2017's offices, located on High Street.

#### 8.5 Working at Height

When it is necessary to work at height precautions must be taken to prevent a fall.

- Where scaffolding is used, it must be provided and erected by competent, trained person(s) and must comply with all current regulations.
- Where working platforms are used handrails and toe boards must be used.
- When working at height, care must be taken to ensure that nothing can fall onto persons below.
- Where a risk assessment of method statement has identified the need for the use of a harness, it should be a full body harness attached to the correct fall arresters and/or work positioning lanyards. Body harnesses must be manufactured in accordance with BS5750, comply with EN361 and carry a CE mark.
- Before any work at height is undertaken a full and sufficient rescue plan must be in place.
- When working at height, all tools must be attached to a person or structure by a suitable lanyard.

#### 8.6 Manual Handling

Like all other legislation enacted in 1992 the Manual Handling Regulations are risk assessment based. To that end contractors and personnel shall:

- Identify any manual handling operations where there is a risk of injury to staff.
- Identify and implement any reasonably practicable means of avoiding the operation.

- Where the operation cannot be avoided the contractor will identify any measure that can be taken to control the risks.
- Carry out a task specific risk assessment, which will be recorded and be kept under review and revised as necessary.

#### 8.7 Lifting Operations

- Lifting operations shall be planned and supervised by a competent person and carried out in a safe manner.
- Lifting equipment should be inspected and maintained in accordance with the relevant guidelines and legislation (Lifting Operations and Lifting Equipment regulations 1998) and the required documentation should be available onsite to support such maintenance and inspection.
- All lifting equipment, including, but not limited to, wire ropes, winches, chain hoists, shackles, spansets, ropes, slings etc. shall be suitable for their purpose.

#### 8.8 Ladders

Should the work to be carried out identify ladders as the most suitable means of access, the following will apply:

- Where ladders are used, they must be selected and used with due consideration to the HSE publication INDG402 (Safe Use of Ladders and Stepladders).
- The ladder(s) should be in good condition and fit for purpose.
- The ladder(s) should be correctly positioned to prevent over stretching and be secure to prevent slipping.

#### 8.9 Fatigue

An increased risk of accidents occurs if personnel are allowed to work for long periods of time with insufficient rest periods so that mental or physical fatigue becomes an issue. Mental fatigue can result in errors of judgment leading to accidents. Risk assessments are required to take into account the possibility of fatigue, especially when employees are operating machinery.

#### 8.10 Electricity

- All electrical installations shall comply with the requirements of the Electricity at Work regulations 1989.
- Each contractor shall ensure, as part of their own ongoing inspection and maintenance procedures, that they regularly inspect all portable electrical equipment to be used onsite. Visual inspections should be carried out prior to use and any defects should remedied prior to use or the equipment withdrawn from use.
- All portable electrical equipment brought onto site shall suitable and sufficient test certification (PAT or similar).

#### 8.11 Equipment Suspended at Height

All equipment suspended at height shall be fitted with a suitable and sufficient secondary means of suspension.

#### 8.12 PPE

When identified as necessary by a Risk Assessment or Method Statement appropriate Personal Protective Equipment shall be worn.

#### 8.13 Waste Management

All contractors will be required to remove any waste that their activities generate from the site and make appropriate arrangements to dispose of or recycle the waste.

As this is not a public event no arrangements will made to deal with waste generated by the public. Streetscene will carry out their normal public realm cleansing.

## 9.0 Contractors Risk Assessments and Method Statements

To be added.

## 10.0 Schedule

A full detailed schedule is being drawn up Arup, this will detail all activity involved in the installation.

The overview schedule is as follows

Date & time	Activity	Notes
Sun 8 <sup>th</sup> Jan '17		
00:01	Closure of route between Siemens plant and Queen Victoria Square	
	Begin removal of traffic furniture	
	Begin closure and barrier installation in Queen Victoria Square	
02:00	Blade transport leaves Siemens plant	
	Traffic furniture replaced behind Blade transport	
	Cranes set up in Queen Victoria Square Support structures craned into place and assembled	
06:00	Blade transport leaves A63 and turns onto Market Place / Lowgate	
	A63 reopens	
07:30	Blade transport arrives in QVS	
	Market Place, Alfred Gelder St, Dock Street and Saville St. reopened as soon as possible.	
08:00	Lifting operations begin	
12:00	Lifting operations completed	
	Blade transport vehicles and cranes leave Queen Victoria Square	
12:30	Barriers removed Queen Victoria Square and Carr Lane reopened	

NB: subject to change

#### 11.0 Risk Assessments

Assessment of:	'Blade' Installation & Operation - Risks to the public	Assessment carried out by:	Chris Clay
Assessment number:	Blade001	Position:	Technical & Operations Director
Date:	6 <sup>th</sup> November 2016	Review date:	5 <sup>th</sup> December 2016

					Risk factors				
No	ACTIVITY & WHO IS AT RISK	HAZARDS PRESENT	EXISTING CONTROL MEASURES	No. at risk	Likelihood	Severity	Risk Level	FURTHER ACTION REQUIRED & BY WHOM	DATE OF ACTION
1.	Transport of 'Blade' from Siemens plant to Queen Victoria Square. Pedestrians and road users at risk.	Vehicles colliding with 'Blade' transport, occupants of vehicles at risk of injury.  Pedestrians being struck by transport vehicles.	The transport of 'Blade' will be carried out on closed roads. The transport convoy will be escorted by Humberside Police and stewards. The convoy will travel at low speed (walking pace)	100	1	4	L	N/A	

2.	Craning of support structures into position in Queen Victoria Square.	Risk of members of the public being struck by mobile cranes or transport vehicles.	All vehicle movements will be accompanied by banksmen.	100	2	4	М	Stewarding and fencing plan to completed once crane positions are confirmed. To be carried out by Chris Clay.	By end of November 2016.
	Lifting of 'Blade' into position on the support structures.  Members of the public	Risk of members of the public being struck by support structures whilst being moved into position.	All lifting activities will be conducted in a segregated work area.						
	at risk.	Risk of members of the public being struck by 'Blade' as it moved into position.	Stewards and security personnel will prevent members of the public from breaching the fence line						
3.	Installation of 'Blade' in Queen Victoria Square. Members of the public at risk.	Risk of overcrowding, leading to crushing injuries.	The installation of 'Blade' will not be announced publically.  Stewards and SIA security staff will be deployed to manage crowds and will disperse them if they	100	2	3	L	Dynamic assessments to be carried on the day of installation by the crowd management supervisor.	08.01.17
			grow too large.  The fence plan will be designed to allow for movement around the perimeter of the square.						

	1	T						I	ı
4.	Road users on Carr Lane at risk	Risk of collision with 'Blade'	'Blade' is higher than a motorway bridge at the point it over sails Carr Lane	100	1	5	L	N/A	
5.	Road users on Carr Lane at risk	Risk of 'Blade' causing a distraction leading to collisions with buildings or pedestrians.	Use of Carr Lane is restricted to professional drivers (Buses and Taxis).  A programme of consultation will be carried out with bus and taxi operators.	100	2	4	М	Consultation programme with bus and taxi operators to be implemented by Hull 2017.	By end of November 2016.
6.	Partially sighted or visually impaired pedestrians walking in Queen Victoria Square.	Risk of walking into 'Blade' causing injury.	The support structures for 'Blade' are being designed with this hazard in mind and the hazard will be designed out so far as is reasonably practicable.  Hull 2017 volunteers will be on duty in Queen Victoria Square during key busy periods and will assist visually impaired pedestrians.	100	2	4	M	Final designs to be reviewed by Project team prior to fabrication.	Prior to fabricatio n

7.	Pedestrians in Queen Victoria Square and road users on Carr Lane at risk.	Snow and ice may build up or form on 'Blade' and fall, injuring pedestrians or occupants of vehicles below.	The surface finish of 'Blade' means that ice is unlikely to form and snow is unlikely to built up.  The maintenance plan for 'Blade' will include de-iceing when adverse weather is forecast.	100	1	4	L	De-iceing plan needs to be fully formed in discussion with HCC and KWL by the Porject delivery team.	By end of November 2016
8.	Pedestrians in Queen Victoria Square	Pedestrians (especially after consuming alcohol) may try and climb 'Blade' leading to falls and injuries.	Security personnel will be deployed at the site during the early part of the installation.  The site will be monitored by Civic CCTV control.  At the root end, 'Blade' is 4 metres in diameter making it very difficult to climb.  The support structure at the tip end is being designed to make it difficult to climb.	100	2	4	M	Dynamic and ongoing risk assessments to be carried out by Hull 2017 once 'Blade' has been installed to assess how the public react to the installation.	Ongoing from Jan 8 <sup>th</sup> 2017.

#### **RISK MATRIX**

LIKELIHOO	1. Very unlikely (no known history)	2. Unlikely (unlikely sequence of events)	3. Possible (Foreseeable under unusual circumstances)	4. Likely (Easily foresseable - some incidents may have occurred)	5. Very likely (Common occurrence - aware of incidents)
1. Negligible (no visible injury - no pain)	LOW	LOW	LOW	LOW	LOW
2. Slight (minor cuts or bruises - no long term effects)	LOW	LOW	LOW	MEDIUM	MEDIUM
3. Moderate (Heavy bruising, deep wounds, lost time)	LOW	LOW	MEDIUM	MEDIUM	HIGH
4. Severe (Major injuries, lost time accidents, RIDDOR reportable)	LOW	MEDIUM	MEDIUM	HIGH	HIGH
5. Very Severe (Long term disability or death)	LOW	MEDIUM	HIGH	HIGH	HIGH

NAME OF ASSESSOR:	Chris Clay	DATE OF ASSESSMENT:	7 <sup>th</sup> November 2016				
SIGNATURE:	CCG.						
CONTACT DETAILS							
EMAIL:	Chris.clay@hull2017.co.uk	PHONE:	07771 788 221				

#### Section 3 - Public and Audience

#### 12.0 Crowd Management and Welfare

There will be no public announcement of the installation of 'Blade' as it is designed to be a surprise installation. Therefore, no crowd welfare arrangements will be put in place.

However, it is expected that once the installation begins it will generate a great deal of public interest and news of the installation is likely to spread quickly via social media and will attract interest from people in the town centre on Sunday morning.

As previously stated in this document a segregated work area will be created for the crane operations in Queen Victoria Square and stewards will be deployed to manage any crowds that build up.

#### 12.1 Stewarding Plan

The work area for the installation of 'Blade' will be physically segregated from the public using crowd control barriers. However, the organisers recognise that the installation is likely to create considerable public interest and crowds are likely to gather to watch.

During the transport of 'Blade' the convoy will be accompanied by Humberside Police and stewards who will keep the public at a safe distance.

Once 'Blade' arrives in Queen Victoria Square a team of stewards will be deployed outside the fence line to manage any crowds that build up and to prevent members of the public breaching the fence line. The team of stewards will be supported by an SIA response team in case of any conflict with members of the public.

A full fence plan and stewarding dot plan will be submitted once the crane positions are finalised (see section 4). Currently it is anticipated that we will deploy a team of 12 stewards and an SIA response team of 2.

#### 12.2 Evacuation Plan

As there is no public event space and any crowds will be in the public realm there is no formal evacuation plan. However, stewards will be used to move any crowds to safety in the event of an emergency. As the installation will not be advertised publically it is not known what size of crowd may build and dynamic assessments will carried out with the Stewarding company on the day.

#### 12.3 First Aid

As this is not a publically advertised event and there is no public event area and physical barriers will segregate the public from the work area, no public first aid provision will be provided.

#### 12.4 Lost Children

As this is not a publically advertised event and there is no public event area, no lost children facility will be provided. However, if the stewards are approached by a member of the public for assistance they will offer what help they can and will advise Humberside Police of the situation if necessary.

#### 12.5 Lost Property

As this is not a publically advertised event and there is no pubic event area, no lost property facility will be provided.

#### 12.6 Sanitary Facilities

As this is not a publically advertised event and there is no public event area, no public sanitary facilities will be provided.

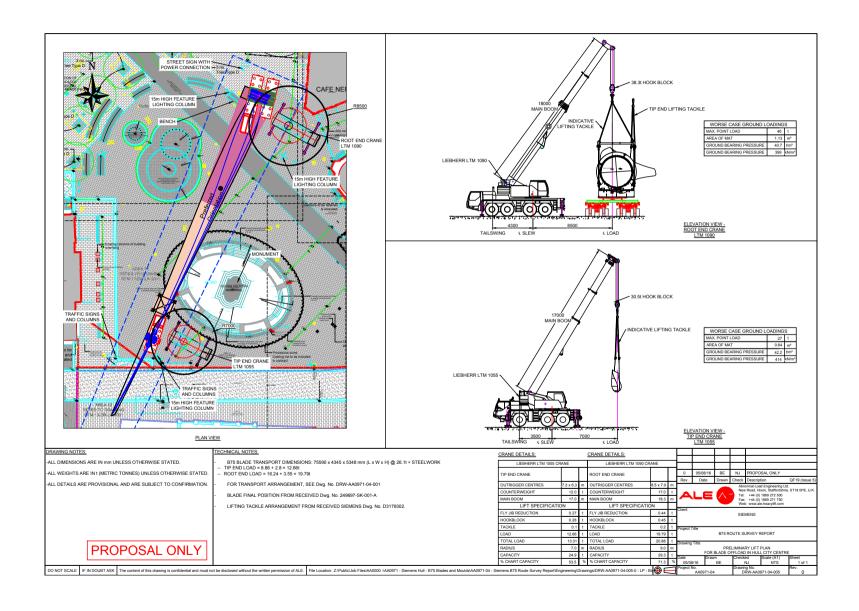
#### 12.7 Noise Management

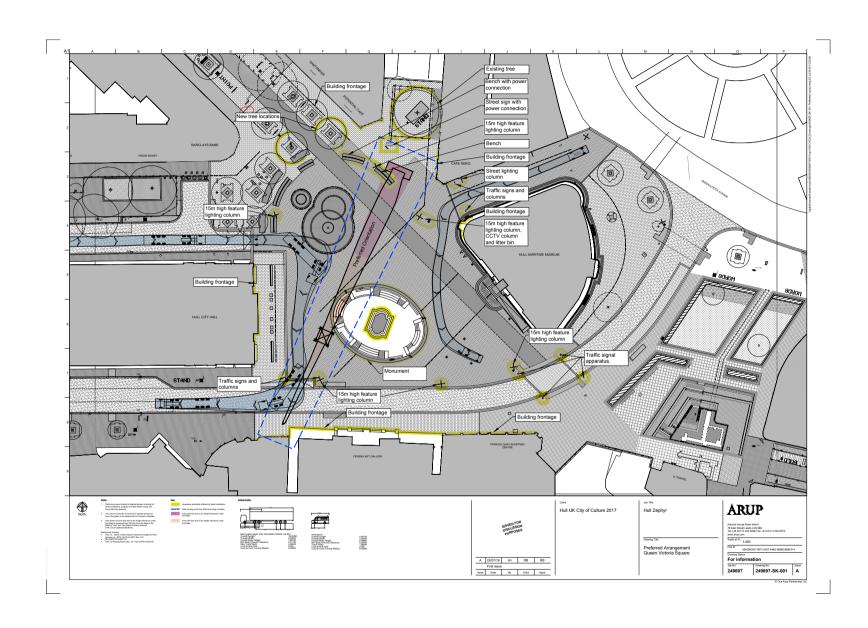
The installation of 'Blade' will not involve any amplified music and will not generate any significant levels of noise that will disturb the public. Contractors will be required to carry out noise assessments of their activities and the impact it may have on their personnel.

Section 4 - Site Plans

#### The following plans show:

- 1. Draft crane positions.
- 2. 'Blade' position, showing vehicle paths for vehicles delivering to City Hall and Emergency vehicle access.





#### Section 5 - References

#### 13.0 References

- 1. The Event Safety Guide, HSG195, ISBN 9780717624539
- 2. Managing Crowds Safely, HSG154, ISBN 9780717618347
- 3. The Health and Safety at Work Act 1974
- 4. The Management of Health and Safety at Work Regulations 1999
- A Guide to the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995
   HSE L73, ISBN 9780717664597
- 6. Five Steps to Risk Assessment, ISBN 9780717664405
- 7. The Work at Height Regulations 2005 (as amended) HSE INDG401(rev1) ISBN 9780717662319
- 8. Manual Handling Operations Regulations 1992 (as amended) ISBN 9780717628230
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