KELLER	Title 321399 -	321399 – Astor College, London – Work Package Plan					
Document Type	Revision		Document ID	Page			
Form	00/2016-08.04		321399-WPP-Rev00	1 of 20			

# Work Package Plan

# KG 321399 Astor College, London Restricted Access Piling

**Est. Start Date: TBC** 

Est. Duration: 5 weeks

						Acceptance by Custom	ner
Version	Prepared by	Date	Approved by	Date	Required Y/N	Acceptance by	Date
00	SMC	04/08/16					





Title 321399 – Astor College, London – Work Package Plan

Document Type

Form

Revision

00/2016-08.04

Document ID

Page

321399-WPP-Rev00

2 of 20

## **Table of Contents**

A1 Description of work	3
A2 Planned Sequence of Works	3
A3 Detailed Method of Construction	3
A4 Keller Work Instructions	5
A5 Mix Design	5
A6 Control of Activity Risks	6
A7 Resources	6
A8 Permits	7
A9 Site Hours	7
A10 Key Personnel and contacts	7
Site Details	8
B1 Access	8
B2 Site Layout	8
B3 Control of Site Hazards	9
B4 Communication & Contact Details (Wates)	9
B5 Emergency Arrangements	10
B6 Welfare	10
B7 Interfaces	10
C Briefing	10
C1 Briefing Arrangements	10
C2 COSHH	11
C3 P.P.E	11
Appendix A – Keller HSEQ Policy	12
Appendix B – Site Hazard Assessment	13
Appendix C – COSHH Data Sheets	14
Appendix D – Keller Work Instructions	15
Appendix E – Working Platform Certificate	16
Appendix F – Plant Details	17
Appendix G – Permit to Dig	18
Appendix H – Hot Works	19
Appendix I – WPP Briefing	20



KELLER	Title 321399 -	tle 321399 – Astor College, London – Work Package Plan					
Document Type	Revision		Document ID	Page			
Form	00/2016-08.04		321399-WPP-Rev00	3 of 20			

A Work Package Details

### A1 Description of work

Keller Geotechnique (KG) are to be contracted by Galliford Try Building to undertake the installation of 50no 508/450mm concreted SFA mini piles, as part of the extension to Astor College. This work will be undertaken in a single site visit using a Klemm 709-1 (Or similar) diesel operated drilling rig. The drilling operations are principally rotary, to allow both noise and vibration levels to be kept to a minimum.

All 50no mini piles will be installed from the surface of the piling platform, the augers will be progressed until drill strings reach the designed pile toe depth with 1no casing being used to act as a vertical guide and to assist stability near the surface of the Borehole.

KG aims to establish and maintain a systematic and standard method of construction and to assign responsibility for activities involved. To demonstrate, by documentary evidence, that the construction of the works meets all contractual and Specification requirements, these documents will be provided to the Principal Contractor during and as a package at the end of the works.

Materials used will comply with detailed design requirements. One set of four concrete cubes will be sampled per working day during the pile installation period and a cube results summary will be compiled and presented to the Principal Contractor during and as a package at the end of the works.

Pile reinforcement will comply with the design and pile schedule. Pile reinforcement will be installed with the use of a mechanical winch operated by the Drill Rig. All Pile reinforcement will be terminated at PPL.

### **A2 Planned Sequence of Works**

These works will be carried out in one site visit, with mobilisation, demobilisation and all piles being installed during the 5 week proposed period. A more detailed sequence will be agreed with Galliford Try after a meeting between the two contract teams on site.

Please note that the above only proposes a programme based on continuous working over the duration of the proposed scheme of works.

Any change in the planned methodology of the works during this contract will be notified to, discussed and agreed with the client before any new method is put into place on site. It will also be presented in the form of an addendum to, or a revision of this document. This new document will also be briefed out to all KG operatives.

#### A3 Detailed Method of Construction

Works to be undertaken are for the installation of a total of 50no 508/450mm concreted mini piles founded into the underlying sandy clay strata in accordance with the pile schedule.

The concrete for the piles will be pumped from the designated concrete batching area to each pile position, the location of the batching plant will be provided by the contractor with sufficient space for storage of the concreting equipment. A water source is necessary for the washing out of the concrete plant, along with a washout facility for the collection of waste water.

#### 50no Mini Piles

- 1. An area for the concrete plant and reinforcement lay down will be planned by the contractor.
- 2. In carrying out the work the rigs used will be purpose built, hydraulically operated rotary piling rigs. The associated equipment and noise and vibration will be compatible with current legislation. The rig will be a diesel operated Klemm 709-1 (2.4m wide x 5.5m long x 13 tonnes weight with 8.815m long mast. An adequate Piling Platform will be provided by the Principal Contractor. The working platform certificate, which includes the maximum pressures exerted by the aforementioned rig, is available within Appendix E
- 3. Piles will be set out by the principal contractors engineer. A minimum headroom of 9m is required over each pile location.



KELLER	Title 321399 – Astor College, London – Work Package Plan					
Document Type	Revision		Document ID	Page		
Form	00/2016-08.04		321399-WPP-Rev00	4 of 20		

- 4. The mast will be set to vertical using a bubble inclinometer, the driller and attendant spanner man will carry out checks on the mast set up throughout the drilling process, namely at 0.5m, 1m and 2m depths. Visual checks will also be made daily by the driller to check on the condition of the inclinometer. If damaged, it will be destroyed and replaced.
- 5. First, one metre of temporary casing will be advanced ahead of the augers, (only if ground conditions dictate) from the level of the piling platform, this will act as a vertical guide. From here onwards, the augers will advance, through the made ground, RTDs and clay, until the specified pile toe has been reached.
- 6. The augers are then withdrawn, with the borehole concreted as the augers are extracted. Once all augers are removed, the temporary casing will be removed and the bore topped up.
- 7. The reinforcing cage will then be plunged into the fresh concrete. For piles requiring additional GEWI bar reinforcement, the bar will be plunged into the fresh bore first and the cage plunged over the top. All steel is to be terminated at PPL piles will be built up to the required COL by others upon completion of the piling works where required..
- 8. If overnight, temperatures are expected to fall below freezing, all concrete and water lines will be blown through with compressed air at the end of each shift.
- 9. The anticipated volume of spoil per pile is in the order of 3.5m³, which will need to be removed from the pile position as it arises from the hole by the Contractor's attendant excavator.

Each pile will be reinforced with a 300mm OD 6B20 cage, 4.5m in length including 800mm projection (TBC by an approved design document).

Individual Pile setting out and levelling will be provided by the Contractor's engineer, the level of the top of the pile reinforcement must be checked by the Contractor's engineer after each and every pile is constructed, such that there is opportunity to rectify errors before the pile concrete sets.

Positional and installation tolerances achievable for the proposed drilling rig are as follows:

Rig Type	Klemm 709-1
Pile type	508/450mm concreted piles
Working Rig Dimensions	2.4m wide x 5.5m long x 13 tonnes weight with 8.815m long mast
Headroom (m)	open
Distance from vertical face to centre line of pile – rig normal to face (mm)	500
Distance from vertical face to centre line of pile – rig parallel to face (mm)	1200
Installation tolerance (at PPL/Verticality)	+/- 1 in 75mm



KELLER	Title 321399 -	399 – Astor College, London – Work Package Plan					
Document Type	Revision		Document ID	Page			
Form	00/2016-08.04		321399-WPP-Rev00	5 of 20			

#### **A4 Keller Work Instructions**

The Keller Geotechnique Contract Manager is responsible for establishing control processes and procedures to ensure that the preparation, execution and completion of the site work are carried out safely and without incident. The following work instructions will be adhered to:

Drilling with augers and casings - 8.2KG\_WI

Restricted Access Piling & Testing - 8.25KG\_WI

Concrete cube preparation and testing - 8.16KG\_WI

Lifting and installation of pile reinforcement - 8.37KG\_WI

All work instructions are made available within appendix D of this document.

### **A5 Mix Design**

Concrete will be batched off site, Characteristic C28/35, DC2, S4 mix with maximum 10mm aggregate. Once on site, it will be stored within an agi tank and pumped to the bore locations.

One set of 4no grout cubes per working day will be taken during the pile installation period. These will be tested, 1no at 7 days, 2no at 28 days and a spare.



KELLER	Title 321399 – Astor College, London – Work Package Plan					
Document Type	Revision		Document ID	Page		
Form	00/2016-08.04		321399-WPP-Rev00	6 of 20		

## **A6 Control of Activity Risks**

Risk Identified	Controls Specified	Tasks where risk needs to be briefed			
		Mob	Pile installation	Demob	Comments
Damage to existing structure from piling rig	All rig movements to be supervised by a trained and competent banksman.		х		
Concreting	Controls as specified in KG_HA02 - Appendix B		Х		
Drilling	Controls as specified in KG_HA04 Drilling Appendix B		Х		
Lifting and installation of Pile reinforcement	Controls as specified in KG_HA11 Lifting and installation of pile reinforcement Appendix B		Х		
First Aid Hazard Assessment	Controls as specified in KL_HA05 First Aid Hazard Assessment Appendix B	Х	Х	Х	
Air Compressors	Controls as specified in KL_HA16 Air Compressors Appendix B		Х		
Loading and Unloading of plant and equipment	Controls as specified in KL_HA18 Loading and Unloading of plant, equipment, etc. Appendix B			Х	
Restricted Access Piling & Testing	Controls as specified in 8.25KG_WI Appendix D		Х		
Manual Handling of Augers and casing	Controls as specified in KG_MHA03 Augers and Casing Appendix B	Х	Х	Х	
Manual Handling reinforcement cages	Controls as specified in KG_MHA08 Reinforcement cages for mini piling Appendix B	Х	Х		

#### **A7 Resources**

Plant & Equipment: Klemm 709-1

PM55 Concrete pump 1no blow out chamber 7m Telehandler 6m³ Agi Tank

1no double bunded diesel bowser

1no Jet wash

Various small tools, miscellaneous concrete/air hoses and site tool box

Water supply (by Principal Contractor)

Attendant excavator for muck away (by Principal Contractor)



KELLER	Title 321399 -	321399 – Astor College, London – Work Package Plan					
Document Type	Revision		Document ID	Page			
Form	00/2016-08.04		321399-WPP-Rev00	7 of 20			

Labour - 1no Supervisor

1no Driller 2no Spanner Men

1no Concrete pump operative
Visiting Engineer/ Manager
Visiting Health and Safety officer

All site personnel will have as a minimum a CSCS card and where applicable a CPCS card.

The Contracts Engineer or Works Manager will brief the supervisor on this WPP before any works commence, following this it is the responsibility of the Keller works supervisor to ensure all site operatives have been fully briefed and any new workers that arrive are also fully briefed on the WPP prior to starting work – see Appendix I Record of WPP Briefing Sheet. To ensure all workers fully understand what is being briefed to them, the supervisor conducting the briefing will engage the workers with questions relating to the works.

#### **A8 Permits**

Prior to work commencing, the following permit must be issued by the Principal Contractor to the Keller works supervisor:

- Working Platform Certificate must be obtained before loading the working platform, renewed weekly and
  following any reinstatement of the platform, such as following removal of obstructions. Refer to Appendix
  E for template. The signed working platform certificate must be produced on site and a copy sent to Keller
  before work commences.
- Permit to dig issued by Principal Contractor to the piling supervisor, confirming no services in the area. Refer to Appendix G.
- Hot works permit (when applicable) for the use of welding equipment, abrasive wheels or cutting pile reinforcement bar. Refer to Appendix H.

### **A9 Site Hours**

Monday to Thursday: 07:30 hours to 18:00 hours Friday: 07:30 hours to 15:30 hours

### **A10 Key Personnel and contacts**

Name	Position	Contact
Richard Hayman-Joyce	General Manager	07748 106071
Tom Fuller	Contracts Engineer	07872 456225
Eddie Donaghy	Construction Manager	07717 342663
Glyn Evans	NWE HSEQ Manager	07909 990639
TBC	Site Supervisor	TBC



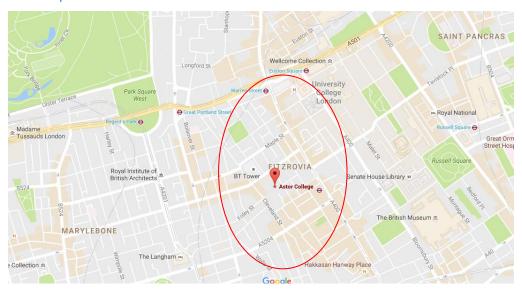
KELLER	Title 321399 -	399 – Astor College, London – Work Package Plan					
Document Type	Revision		Document ID	Page			
Form	00/2016-08.04		321399-WPP-Rev00	8 of 20			

#### Site Details

The Site Address is:

Astor College, Charlotte Street, London. W1T 4QB

It is shown on the Map below.



#### **B1 Access**

The drill rig will be transported to site (via Charlotte Street) on a step frame, being tracked off within the site compound and on to the drilling location/Piling Platform – A Piling Platform Certificate along with a Permit to Dig/Break Ground must have been prepared and signed off prior to rig being tracked into the piling area. The rest of the plant mobilisation will take place through the site entrance.

The Principal Contractor will be responsible for the traffic management and for providing safe access/egress from/to the site entrance for deliveries and KG operatives as necessary throughout the site works including the mobilisation and demobilisation periods. These systems will be briefed to all KG employees and the site supervisor will ensure these are adhered to throughout the works.

### **B2 Site Layout**

A centralised area for the siting of the concrete batching plant, system and associated materials will be required for the piling operations. Concrete will be pumped from this batching plant location to the individual pile locations. It is anticipated that one inter-site move will be required between the Primary and Secondary Piling Areas. An on-site storage area will be used for the storage of the pile reinforcement.

Throughout the K.G. piling works, exclusion zones will be maintained from the piling works and the other works taking place on site, this will be done with co-operation from the main contractor who will provide clearly defined access routes around site, ensuring that other trades on site that are not involved in the piling works will be kept away from KG operations. As the piling works will follow a planned sequence agreed with the Principal Contractor supervisor, access routes may need to change as necessary to allow room/access for the drilling rig to access certain pile positions.

A suitable wash out bund will be provided by the contractor for disposal of waste concrete and wash out produced during piling operations and from washing out upon completion of the concreting operations each shift. It is the responsibility of the ground works contractor to maintain / empty this bund as the works proceed. An adequate water supply will also be available for the duration of the works.



KELLER	Title 321399 -	Astor College, L	ondon – Work F	Package Plan	
Document Type	Revision		Document ID	Page	
Form	00/2016-08.04		321399-WPP-Rev00	9 of 20	

All setting out is to be carried out by the contractor's site engineer. KG is to be made aware of any services on site which may be encountered during the drilling operations. Any existing services are to be diverted or made redundant prior to the permit to dig being signed and works commencing.

The site reference and platform levels will be advised and confirmed by the contractor prior to work commencing on site. Where possible the PPL will be rationalised to the same level. Access to each pile position will give a clearance of 500mm from any vertical face to the pile centre line.

The pile sequence should be agreed prior to any work commencing on site to ensure all parties are aware and in agreement of the sequence.

#### **B3 Control of Site Hazards**

		Tasks where hazard needs to be briefed				
Hazard Controls Specified		Mob	Pile installation	Demob		Comments
Loading and unloading of Lorries	Controls as specified in KL_HA02 Loading and unloading of Lorries	X		X		
Protection of the public	Controls as specified in KL_HA06 Protection of the public	X	Х	X		
Site establishment	Controls as specified in KL_HA07 Site establishment	X				
Open Excavations	Piles to be covered immediately with metal plates or similar following construction.	Х	Х	Х		
Moving Plant – plant strikes	Rigs to be banked at all times by trained and competent banks man, pedestrian walkways to be adhered to	Х	Х	Х		
Rotating Machine Parts	Any Site workers not involved in the piling operation should remain outside of the work area. Rig Guards to be used at all times.		Х			
Overhead Electricity Cables / Pylon	Have overhead lines switched off if possible or maintain safe distances from the lines or pylon to plant and equipment		Х			

All KG operatives will attend the project specific, safety induction talk from the principal contractor prior to works commencing. The emergency procedures for the works will be discussed and highlighted at this induction along with any site specific hazards and emergency procedures, such as the fire safety plan which is put in place by the Principal contractor.

Once inducted, and before any work commences, any change in conditions will be recorded by the site supervisor on the 'Site hazard assessment' form. This document will be updated and made available to the client at regular intervals throughout the job.

## **B4 Communication & Contact Details (Galliford Try)**

Name	Position	Contact
TBC		



KELLER	Title 321399 – Astor College, London – Work Package Plan			
Document Type	Revision	D	ocument ID	Page
Form	00/2016-08.04	3	21399-WPP-Rev00	10 of 20
	00, 2020 00:0 :			100.20

# **B5 Emergency Arrangements**

For emergency contact details please see below.

First Aid equipment is located in both the site supervisor's site office and the stores unit. The KG first aider on site is the site supervisor.

The nearest A&E hospital is: University College Hospital, 235 Euston Road, London. NW1 2BU.



All accidents/incidents or near misses to be reported to Principal Contractor supervision immediately and recorded in the accident book, all personnel are to be briefed on this Principal Contractor induction.

#### **B6** Welfare

All Welfare including site office and drying room is to be provided for the duration of the works by the Principal Contractor. Security is also to be provided, including a secure locked compound for the safe storing of all plant, equipment & materials for when not in use. Note - Site water supply is final effluent, therefore not suitable for drinking water. Ensure hands are washed prior to eating and drinking.

#### **B7 Interfaces**

It is essential to maintain good public relations and minimise the impact, disturbance and inconvenience of the works. The site and surrounding roads must therefore be kept in a clean and tidy condition, and external noise emissions kept to a minimum. Acoustic noise reduction barriers can be supplied if requested, at a cost.

#### C **Briefing**

### C1 Briefing Arrangements

The basic documentation for managing the operations comprises this Method Statement, the associated Risk Assessments, Tool-Box-Talks and Start of Shift Briefings. Each member of KG's staff and visitors will be briefed on these documents prior to accessing the site. Records of these briefings will be kept by the KG supervisor on site, with a copy sent back for records at the main office.



KELLER	Title 321399 -	Astor College, L	ondon – Work F	Package Plan
Document Type	Revision		Document ID	Page
Form	00/2016-08.04		321399-WPP-Rev00	11 of 20

### C2 COSHH

The Control of Substances Hazardous to Health Regulations, 1999, (C.O.S.H.H. Regulations), require that an assessment is undertaken of health risks created by work involving substances hazardous to health. The risk assessments of substances are included in the task assessments. These refer to the use of chemicals on site and state that the precautions to be taken are recorded on a Substance C.O.S.H.H. Record. The Substance Identification Record is based on information obtained from a data sheet received from the substance supplier.

SC.O.S.H.H Assessments for all substances used on the site can be found in Appendix C.

The following COSHH assessments are also to be followed:

COSHH Assessment - Oils & Greases

**COSHH Assessment - Concrete** 

COSHH Assessment - Gas Oil

COSHH Assessment - Readily Biodegradable oils including Q8 Holbin 46

COSHH Assessment - Petroleum Spirit

#### C3 P.P.E.

PPE will be worn by all Keller Geotechnique employees in the required areas on site so as to comply with the site rules of the main contractor, this will include (where applicable): -

- Safety helmets
- Protective clothing to suit site specific requirements
- Safety footwear (toe and mid-sole protection)
- Gloves (mandatory on Keller sites)
- Reflective vests/overall, jackets and trousers
- Eye protection (mandatory on Keller sites)
- Grout mix operative to wear appropriate face fitted dust mask.



KELLER	Title 321399 -	Astor College, L	ondon – Work F	Package Plan
Document Type	Revision		Document ID	Page
Form	00/2016-08.04		321399-WPP-Rev00	12 of 20

# Appendix A – Keller HSEQ Policy



KELLER	Title 321399 -	Astor College, L	ondon – Work F	Package Plan
Document Type	Revision		Document ID	Page
Form	00/2016-08.04		321399-WPP-Rev00	13 of 20

# **Appendix B – Site Hazard Assessment**



KELLER	Title 321399 -	Astor College, L	ondon – Work F	Package Plan
Document Type	Revision		Document ID	Page
Form	00/2016-08.04		321399-WPP-Rev00	14 of 20

# **Appendix C – COSHH Data Sheets**



KELLER	Title 321399 -	Astor College, L	ondon – Work F	Package Plan
Document Type	Revision		Document ID	Page
Form	00/2016-08.04		321399-WPP-Rev00	15 of 20

# **Appendix D – Keller Work Instructions**



KELLER	Title 321399 -	Astor College, L	ondon – Work F	Package Plan
Document Type	Revision		Document ID	Page
Form	00/2016-08.04		321399-WPP-Rev00	16 of 20

# **Appendix E – Working Platform Certificate**



# Working Platform Certificate (FPS/WPC/4b)



Project Name	321399 – Astor College		
Work area covered by this certificate			
(A sketch or marked up pile lay	out drawing ma	ay be attached to this certif	icate. Include haul roads and gridlines.)
Part 1 – WORKING P	LATFORM	I DESIGN	
Equipment to be used on site.		Klemi	m 709-1
Maximum plant loading		171kPa (Wh	ile extracting)
(Note: BR470 'Working Platforms of ground-supported platforms' is a			design, installation, maintenance and repair 3 038)
Designer Name			Tel No.
Designer Organisation			
Is Testing Specified?	Yes / No	If 'Yes' Give Details:	
Part 2 – VERIFICATIO	<u>ON BY PRI</u>	NCIPAL CONTRA	<u>CTOR</u>
			to the design and, if specified, tested to the platform have been clearly identif
REINSTATED to the as-des when the equipment is on	signed condi the site. A co Contractor s	tion after any excavation of this completed copy of this co	TAINED, MODIFIED, REPAIRED, and on or damage, throughout the period certificate signed by an authorised ser of the working platform prior to
Name & Position			Date
Organisation			Signature

The HSE has worked closely with the FPS to develop this initiative and supports the principle of reducing accidents by the certification of properly designed, prepared and maintained working platforms

## **Working Platform Certificate (FPS/WPC/4b)**



## **Working Platform Regular Inspection Log**

The working platform has been inspected *prior to handover and provides safe access for people and plant*. All necessary maintenance, modification, repair or re-instatement of the working platform is to the as-designed installed condition. If necessary, a revised Working Platform Layout Drawing has been issued to the specialist contractor.

Date	Organisation	Name & Position	Signature	Comments  (include key details of alteration, modification, maintenance, repair, date of next inspection, and whether or not revised drawing issued etc. as appropriate)

### Working Platform Certificate (FPS/WPC/4b)



### Guidance on working platforms for tracked plant

#### 1. Design

- 1.1. The HSWA 1974 and CDM Regulations 2007 require the Principal Contractor to appoint competent Designers in respect of Working Platform design. This legislation explains how competence can be assessed by reference to professional qualifications or professional memberships and by reference to practical experience of the design of working platforms. Principal Contractors must be satisfied that a competent Designer has been appointed by them in accordance with the relevant legislation before they complete and sign the WPC.
- 1.2. The stability of tracked plant is <u>fundamentally</u> dependent upon the provision of a suitable and sufficient working platform. It must be properly designed and installed to a recognised standard. Whilst the same type of rig may be operated by different companies, the design bearing pressures may differ due to the specific operating configuration of the rig and/or any modifications. Details of the plant to be used and bearing pressures will be provided by the specialist contractor in advance of work commencing.
- 1.3. Working platform design is extremely sensitive to the bearing pressure and type of fill used in the platform. (For example, changing the angle of friction of the fill from 35 degrees to 45 degrees can halve the platform thickness.) It is therefore advised that the Designer may have to adopt conservative/cautious estimates of platform shear strength unless higher values can be demonstrated by testing or with reference to appropriate published data.
- 1.4. The working platform must be safe for pedestrian access and free draining to prevent the build up of water and slurry. In the case of fine-grained sub-grades, a separation/filter membrane should be installed beneath the platform material to inhibit 'pumping' and infiltration of the fine-grained soils up into the platform material during wet weather (which can impair platform performance and increase maintenance costs).
- 1.5. Proof testing of the platform can be carried out with a suitably sized circular plate subjected to the maximum design loading. Such testing, as part of an appropriately designed testing regime, should highlight any gross inconsistencies in platform performance. Potentially, significant savings in platform thickness and cost may be realised by adopting a more detailed testing strategy.
- 1.6. The working platform must have a design life which starts before delivery of the piling equipment and ends on completion of all piling works. This includes load testing, integrity testing, investigation of non conformances and any remedial works.
- 1.7. The specialist contractor is to advise the Principal Contractor at the earliest practicable opportunity should the specialist contractor become aware of any circumstances relating to the working platform that renders it unsafe.

#### 2. Installation

- 2.1. The FPS Working Platform Certificate is mandatory for all sites where a rig or attendant plant operates. It must be signed by an authorised representative of the Principal Contractor. This signature confirms that the legal duties required under CDM have been carried out.
- 2.2. If the working platform is to be constructed or removed in phases while piling works are ongoing, then the extent of the platform must be clearly defined on the certificate and, in accordance with good practice, physically on site. This is particularly important where the platform material is removed from an area previously made available to the specialist contractor.
- 2.3. The working platform must provide safe access for all plant deliveries, sub-contractors and personnel associated with the specialist operations. Properly designed and installed, the working platform could also provide suitable and safe access for following trades for the whole project.
- 2.4. Poor definition of the edge of the working platform is a major cause of tracked plant instability. It is good practice that the working platform should extend at least 2m beyond the pile position/edge of the building to ensure sufficient safe working area for the specialists personnel and attendant plant. Where having to work within this 2m zone is unavoidable the Designer is to be informed of the requirement to design the platform for working up to its edge.
- 2.5. Where access ramps are used to move between working levels these must be of sufficient gradient and width to allow the plant to move safely with the stability constraints of the machine. Ramps must be in a straight line between working areas. Rigs and cranes cannot change direction on ramps. Where a change in direction is required, this must be on a flat level platform.

#### 3. Maintenance, modification, repair and reinstatement

- 3.1. The working platform must be kept free draining. Water and slurry which is allowed to build up on the working platform can hide such hazards as recently constructed piles, trip hazards, uneven or unstable ground, services and excavations. Slurry can be transferred to work equipment which increases the risk of slips on steps as well as difficult handling of work tools.
- 3.2. Obstructions encountered during installation of the piling works will generally require excavation to remove them. This can create a 'soft spot' which can result in the rig overturning. It is essential, therefore, that any excavations made in the working platform are reinstated to the designed standard, including any reinforcement and separation filter/membrane.
- 3.3. The working platform shall be subject to regular inspection by a competent individual appointed by the Principal Contractor (e.g. the Temporary Works Co-ordinator) throughout its design life and after any reinstatement or any works which might have modified it. Any damaged or inadequate areas identified must be reinstated to the designed standard. Following the regular inspection, the Working Platform Regular Inspection Log shall be signed by an authorised representative of the Principal Contractor and issued to the specialist contractor with a layout drawing of the working platform amended as appropriate.

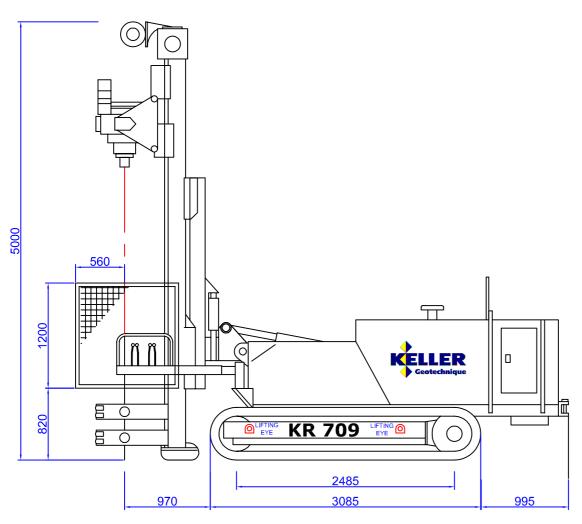
#### 4. Working Platform Layout

4.1 Items that must be included and properly located on the working platform layout drawing and be notified by the Principal Contractor to the specialist contractor would include: detail of platform edges and 2m delineation, trial pits, services or voids, areas of backfilling, known underground basements; areas that are covered by the certificate or permit, test locations (if specified by the Designer of the platform) and any other feature that may affect the safety of operations.

KELLER	Title 321399 -	Astor College, L	London – Work Package Plan		
Document Type	Revision		Document ID	Page	
Form	00/2016-08.04		321399-WPP-Rev00	17 of 20	

# Appendix F - Plant Details







Thorp Arch, Wetherby, West Yorkshire, England, LS23 7FS Phone 01937 541118 Email geotechnique@keller.co.uk

Unit 5, Weyside Park Newman Lane, Alton, GU34 2PJ Phone 01420 590328 Email geotechnique@keller.co.uk

Ground Floor, 108 Mere Grange Leaside Road, S† Helens, WA9 5GG Phone 01744 818009 Email geotechnique@keller.co.uk

Tower Business Park, Derby Road, Clay Cross Phone 01246 860988 Email geotechnique@keller.co.uk

13500Kg Rig Weight

Maximum Pile Diameter

508/660mm

Maximum Pile Length **Drilling Techniques** 

30m

Rotary Case & Auger Flight Auger DTH Hammer Diesel

Power Pack Dimensions (mm)

Power Pack weight

Noise Levels

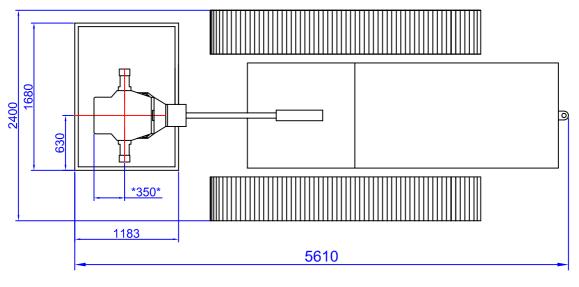
TBC Leq at 5m

Rig Transport Dimensions (mm)

Mast Articulation

Forward Back Side

5° 90° ±15°



\* DIMENSION\* = 430mm IF USING 660mm CASING

Notes
All KG Drilling rigs are equipped with fully interlocked guards in accordance with the PUWER regulations

FPS Platform design

Working Platform Certificate required to operate all KG Drilling Rigs

WILE KLEMM KR 709

N/A A4 J.D.T.	
09/11/10	



# **Concrete Pump Specs**

		SW40	PM55	PM70
Туре				
Concrete Cylinder Dia	(mm)	152	180	200
Concrete Cylinder Stroke	(mm)	1066	1000	1400
Volume per stroke	(m³)	0.0193	0.0254	0.0440
" "	(I)	19.3	25.4	44.0
Output - theorectical	(m³/hr)	40	55	70
Strokes per m³ (100%)	(No)	51.7	39.3	22.7
Strokes per m³ (90%)	(No)	57.4	43.7	25.3
Maximum strokes per hr	(No)	2068	2161	1592
Maximum strokes per min	(No)	34.5	36.0	26.5
Concrete Pressure	(bar)	45	55	70
Hydraulic Pressure	(bar)	155	260	350
Deisel Engine	(kw)	60	60	115
Length	(mm)	4600	4420	6000
Width	(mm)	1500	1520	1800
Height	(mm)	1800	1700	2250
Weight	(kg)	2400	2700	4200

KELLER	Title 321399 -	Astor College, L	ondon – Work F	Package Plan
Document Type Revision			Document ID	Page
Form	00/2016-08.04		321399-WPP-Rev00	18 of 20

# Appendix G – Permit to Dig





## **PERMIT TO DIG**



SAFE		PERIVII	1 10	DIG					ELL	EK
Contract Name		Permit No:								
Contract Number	r				Da	ate of Issue:				
	MAXIMUM DUR	ATION OF PERMIT MUST	NOT EX	CEED 7 DAYS	S FROM D	ATE OF ISS	UE			
		PART A - Prior to Exca	vation /	/ Breaking Gro	ound					
	"	o and transmitter) been carried	out by the	Main Contractor	r <b>prior</b> to the	e issue of this	Yes / N	No	If no then P	
Permit and the results re Have utilities drawings b	ave utilities drawings been received by the Main Contractor and all relevant information recorded?  Yes / No  If no then Permit not to be issued									
ave all known/charted services been traced and the positions of all buried cables been clearly identified by the Main Contractor on  Yes / No										
he surface?	There as	re the following known/charted	canvinac	in the work locat	tion as held	w (Tick)	10071		be is:	sued
Gas	Drains	Electricity (O/H)	301 VICC3	BT BT		Traffic Signal			Other	
Water	Sewer									
f no services indicated within the proposed area of excavation on any statutory drawings or topographical GPR survey, and area has been CAT scanned and proved clear by the Main Contractor, then mechanical excavation can proceed. Go to part B										
Have all known services	been traced and marked	out on the ground by the Main C	ontractor	?			Yes / N	No	If no then P be is:	II.
• • •	known services are preser at depth, location and direc	t then trial holes MUST be dug ction.	using sat	fe techniques (No	lo breakers	or mechanical	equipmen	t) and	ī	
Have trial holes been do	one by the Main Contractor	prior to this permit?					Yes / N	No	If no then P be is:	II.
•	rices must be shown on th ired (Gas, Electricity, Unkn	e attached sketch(s) or relevan own etc.)	t survey	drawing, clearly s	stating the t	rial hole locati	ons compl	eted	by the Ma	in
		Insert Sketch and drawing re								
	PART A Auti	norisation: Completed by A	luthoris	ed Main Contr	ractor Rep	resentative				
	Keller Representative:	this permit must be kept v	vith the	supervisor of	Date					
loo Dort A of this Dormi	t been <b>fully</b> completed?	FART B-FIIOI to MICCIN	anicai L	Loavation / D	riggiiig		Vec / N	No.	If no do no	t continue
		d is the correct equipment availa	phlo2				Yes / N		If no do no	
Has machine operator/	banksman been briefed on	location of known services and ritten Instruction from Main Cor	digging m	nethodology ( <b>No r</b>	mechanical	excavation	Yes / N		If no do no	
	•	ed and details recorded by Main	<u> </u>	or?			Yes / N	No	If no do no	t continue
Have the positions of al	I huried cables been clearly	/ identified on the surface?					Yes / N	No.	If no do no	t continue
Will the excavation or ar		e 'Building Support Structure'?	f <b>Yes</b> con	sult Design Engin	neer prior to		If Yes do	not	N	
commencement.		Excavation by mechanic	al means	may only proces	ed if		continu	ie		
Known services within i		d dig have been fully exposed by nd nothing has been located with	y safe tec	hniques under di	irect supervi			itified	services s	shown on
	PART B Aut	horisation: Completed by A	Authoris	ed Main Contr	ractor Rep	resentative				
Name		Signature py of this permit must be kept t		supervisor of the			Time:		_	
Permit valid from until (maximum of 7 days)										
	Work must be	suspended if services are dam	naged and	d the Site Manag	ger informed	d immediately				
		Issued to Kel	ller Repre	esentative						
Name		Signature		urthor most and	Date:		Time:			
	Permit Sus	spension /Completed* (sign he	ie it no fl	urtrier mechanica	ai uigging is	requirea)				
Name	e:	Signature	·		Date:		Time:			

<b>KELLER</b> Title 321399 -		Astor College, London – Work Package Plan			
Document Type	Revision		Document ID	Page	
Form 00/2016-08.04			321399-WPP-Rev00	19 of 20	

# Appendix H – Hot Works



KELLER	Title Hot Work P	Permit		_	
Document Type	Revision	Document ID	Form Number	Page	
Form	-/2013-04-18	KL_MS_3-6.3K	3-6.3K_F1	1 of 1	

<u>Definition of hot work</u> - work with flame cutting apparatus, oxyacetylene welding apparatus, electric welding apparatus, blow lamps, grinding equipment, any other equipment producing flame, intense heat or sparks, working with bitumen boilers.

Proposed work						
Description						
Equipment to be used						
Location						
Permit valid for (Date and Duration):						
Special Considerations						
Hazard present:	Yes/No (Permit Issuer)	Removed or Controlled	Hazard present:	Yes/No (Permit Issuer)	Removed or Controlled	
Combustible solids			Confined space			
Flammable liquids, toxic gases, vapours, chemicals			Work at height			
Combustible building fabric			No segregation of work from others			
Conduction of heat/sparks			Pressure (pipes/vessels discharged and vented)			



KELLER	Title Hot Work Pe	ermit		
Document Type	Revision	Document ID	Form Number	Page
Form	-/2013-04-18	KL_MS_3-6.3K	3-6.3K_F1	2 of 1

State any additional precautions required: ✓ box to denote.  1. Ensure all personnel are Site Inducted 2. Ensure hot work equipment is suitable for use and in good order including gas bottles, welding equipment etc. 3. Check location and means of raising alarm 4. Ensure suitable Fire Extinguishers are available nearby for immediate use 5. Ensure the recipient of this Permit is competent to use Fire Extinguishers 6. Inspect nearby areas and make safe if necessary 7. Remove any combustible material from work area 8. Remove any flammable liquid containers from work area (whether full or empty) 9. Remove any flammable gas containers from work area (whether full or empty) 10. Provide suitable and adequate protections against sparks and hot particles 11. Check atmosphere at the work are with a Gas Monitor before Hot Work commences (if applicable) 12. Ensure there is adequate ventilation in the Hot Work area 13. Wear Fire Resistant clothing and appropriate Personal Protective Equipment (PPE) 14. Re-fuelling of Petrol or Diesel driven equipment must be undertaken at least 6 metres away from the Hot Work area 15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited. 16. Portable LEV provision 17. Fire supervisor / monitor 18. Fire blanket required in addition to extinguisher			
1. Ensure all personnel are Site Inducted 2. Ensure hot work equipment is suitable for use and in good order including gas bottles, welding equipment etc. 3. Check location and means of raising alarm 4. Ensure suitable Fire Extinguishers are available nearby for immediate use 5. Ensure the recipient of this Permit is competent to use Fire Extinguishers 6. Inspect nearby areas and make safe if necessary 7. Remove any combustible material from work area 8. Remove any flammable liquid containers from work area (whether full or empty) 9. Remove any flammable gas containers from work area (whether full or empty) 10. Provide suitable and adequate protections against sparks and hot particles 11. Check atmosphere at the work are with a Gas Monitor before Hot Work commences (if applicable) 12. Ensure there is adequate ventilation in the Hot Work area 13. Wear Fire Resistant clothing and appropriate Personal Protective Equipment (PPE) 14. Re-fuelling of Petrol or Diesel driven equipment must be undertaken at least 6 metres away from the Hot Work area 15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited. 16. Portable LEV provision 17. Fire supervisor / monitor	Sta	te any additional precautions required: √ hoy to denote	
2. Ensure hot work equipment is suitable for use and in good order including gas bottles, welding equipment etc. 3. Check location and means of raising alarm 4. Ensure suitable Fire Extinguishers are available nearby for immediate use 5. Ensure the recipient of this Permit is competent to use Fire Extinguishers 6. Inspect nearby areas and make safe if necessary 7. Remove any combustible material from work area 8. Remove any flammable liquid containers from work area (whether full or empty) 9. Remove any flammable gas containers from work area (whether full or empty) 10. Provide suitable and adequate protections against sparks and hot particles 11. Check atmosphere at the work are with a Gas Monitor before Hot Work commences (if applicable) 12. Ensure there is adequate ventilation in the Hot Work area 13. Wear Fire Resistant clothing and appropriate Personal Protective Equipment (PPE) 14. Re-fuelling of Petrol or Diesel driven equipment must be undertaken at least 6 metres away from the Hot Work area 15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited. 16. Portable LEV provision 17. Fire supervisor / monitor		·	
3. Check location and means of raising alarm 4. Ensure suitable Fire Extinguishers are available nearby for immediate use 5. Ensure the recipient of this Permit is competent to use Fire Extinguishers 6. Inspect nearby areas and make safe if necessary 7. Remove any combustible material from work area 8. Remove any flammable liquid containers from work area (whether full or empty) 9. Remove any flammable gas containers from work area (whether full or empty) 10. Provide suitable and adequate protections against sparks and hot particles 11. Check atmosphere at the work are with a Gas Monitor before Hot Work commences (if applicable) 12. Ensure there is adequate ventilation in the Hot Work area 13. Wear Fire Resistant clothing and appropriate Personal Protective Equipment (PPE) 14. Re-fuelling of Petrol or Diesel driven equipment must be undertaken at least 6 metres away from the Hot Work area 15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited. 16. Portable LEV provision 17. Fire supervisor / monitor		·	
4. Ensure suitable Fire Extinguishers are available nearby for immediate use 5. Ensure the recipient of this Permit is competent to use Fire Extinguishers 6. Inspect nearby areas and make safe if necessary 7. Remove any combustible material from work area 8. Remove any flammable liquid containers from work area (whether full or empty) 9. Remove any flammable gas containers from work area (whether full or empty) 10. Provide suitable and adequate protections against sparks and hot particles 11. Check atmosphere at the work are with a Gas Monitor before Hot Work commences (if applicable) 12. Ensure there is adequate ventilation in the Hot Work area 13. Wear Fire Resistant clothing and appropriate Personal Protective Equipment (PPE) 14. Re-fuelling of Petrol or Diesel driven equipment must be undertaken at least 6 metres away from the Hot Work area 15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited. 16. Portable LEV provision 17. Fire supervisor / monitor	2.	Ensure hot work equipment is suitable for use and in good order including gas bottles, welding equipment etc.	
5. Ensure the recipient of this Permit is competent to use Fire Extinguishers 6. Inspect nearby areas and make safe if necessary 7. Remove any combustible material from work area 8. Remove any flammable liquid containers from work area (whether full or empty) 9. Remove any flammable gas containers from work area (whether full or empty) 10. Provide suitable and adequate protections against sparks and hot particles 11. Check atmosphere at the work are with a Gas Monitor before Hot Work commences (if applicable) 12. Ensure there is adequate ventilation in the Hot Work area 13. Wear Fire Resistant clothing and appropriate Personal Protective Equipment (PPE) 14. Re-fuelling of Petrol or Diesel driven equipment must be undertaken at least 6 metres away from the Hot Work area 15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited. 16. Portable LEV provision 17. Fire supervisor / monitor	3.	Check location and means of raising alarm	
6. Inspect nearby areas and make safe if necessary 7. Remove any combustible material from work area 8. Remove any flammable liquid containers from work area (whether full or empty) 9. Remove any flammable gas containers from work area (whether full or empty) 10. Provide suitable and adequate protections against sparks and hot particles 11. Check atmosphere at the work are with a Gas Monitor before Hot Work commences (if applicable) 12. Ensure there is adequate ventilation in the Hot Work area 13. Wear Fire Resistant clothing and appropriate Personal Protective Equipment (PPE) 14. Re-fuelling of Petrol or Diesel driven equipment must be undertaken at least 6 metres away from the Hot Work area 15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited. 16. Portable LEV provision 17. Fire supervisor / monitor	4.	Ensure suitable Fire Extinguishers are available nearby for immediate use	
<ul> <li>7. Remove any combustible material from work area</li> <li>8. Remove any flammable liquid containers from work area (whether full or empty)</li> <li>9. Remove any flammable gas containers from work area (whether full or empty)</li> <li>10. Provide suitable and adequate protections against sparks and hot particles</li> <li>11. Check atmosphere at the work are with a Gas Monitor before Hot Work commences (if applicable)</li> <li>12. Ensure there is adequate ventilation in the Hot Work area</li> <li>13. Wear Fire Resistant clothing and appropriate Personal Protective Equipment (PPE)</li> <li>14. Re-fuelling of Petrol or Diesel driven equipment must be undertaken at least 6 metres away from the Hot Work area</li> <li>15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited.</li> <li>16. Portable LEV provision</li> <li>17. Fire supervisor / monitor</li> </ul>	5.		
8. Remove any flammable liquid containers from work area (whether full or empty) 9. Remove any flammable gas containers from work area (whether full or empty) 10. Provide suitable and adequate protections against sparks and hot particles 11. Check atmosphere at the work are with a Gas Monitor before Hot Work commences (if applicable) 12. Ensure there is adequate ventilation in the Hot Work area 13. Wear Fire Resistant clothing and appropriate Personal Protective Equipment (PPE) 14. Re-fuelling of Petrol or Diesel driven equipment must be undertaken at least 6 metres away from the Hot Work area 15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited. 16. Portable LEV provision 17. Fire supervisor / monitor	6.	Inspect nearby areas and make safe if necessary	
9. Remove any flammable gas containers from work area (whether full or empty)  10. Provide suitable and adequate protections against sparks and hot particles  11. Check atmosphere at the work are with a Gas Monitor before Hot Work commences (if applicable)  12. Ensure there is adequate ventilation in the Hot Work area  13. Wear Fire Resistant clothing and appropriate Personal Protective Equipment (PPE)  14. Re-fuelling of Petrol or Diesel driven equipment must be undertaken at least 6 metres away from the Hot Work area  15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited.  16. Portable LEV provision  17. Fire supervisor / monitor	7.	Remove any combustible material from work area	Ш
10. Provide suitable and adequate protections against sparks and hot particles  11. Check atmosphere at the work are with a Gas Monitor before Hot Work commences (if applicable)  12. Ensure there is adequate ventilation in the Hot Work area  13. Wear Fire Resistant clothing and appropriate Personal Protective Equipment (PPE)  14. Re-fuelling of Petrol or Diesel driven equipment must be undertaken at least 6 metres away from the Hot Work area  15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited.  16. Portable LEV provision  17. Fire supervisor / monitor	8.	Remove any flammable liquid containers from work area (whether full or empty)	
11. Check atmosphere at the work are with a Gas Monitor before Hot Work commences (if applicable)  12. Ensure there is adequate ventilation in the Hot Work area  13. Wear Fire Resistant clothing and appropriate Personal Protective Equipment (PPE)  14. Re-fuelling of Petrol or Diesel driven equipment must be undertaken at least 6 metres away from the Hot Work area  15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited.  16. Portable LEV provision  17. Fire supervisor / monitor	9.	Remove any flammable gas containers from work area (whether full or empty)	
12. Ensure there is adequate ventilation in the Hot Work area  13. Wear Fire Resistant clothing and appropriate Personal Protective Equipment (PPE)  14. Re-fuelling of Petrol or Diesel driven equipment must be undertaken at least 6 metres away from the Hot Work area  15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited.  16. Portable LEV provision  17. Fire supervisor / monitor	10.	Provide suitable and adequate protections against sparks and hot particles	
13. Wear Fire Resistant clothing and appropriate Personal Protective Equipment (PPE)  14. Re-fuelling of Petrol or Diesel driven equipment must be undertaken at least 6 metres away from the Hot Work area  15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited.  16. Portable LEV provision  17. Fire supervisor / monitor	11.	Check atmosphere at the work are with a Gas Monitor before Hot Work commences (if applicable)	
14. Re-fuelling of Petrol or Diesel driven equipment must be undertaken at least 6 metres away from the Hot Work area  15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited.  16. Portable LEV provision  17. Fire supervisor / monitor	12.	Ensure there is adequate ventilation in the Hot Work area	$\vdash$
<ul> <li>15. Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of this Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited.</li> <li>16. Portable LEV provision</li> <li>17. Fire supervisor / monitor</li> </ul>			$\vdash$
Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited.  16. Portable LEV provision  17. Fire supervisor / monitor			ш
16. Portable LEV provision 17. Fire supervisor / monitor	15.	Hot work being undertaken under this Permit must be stopped 30 minutes before the end of the shift. The recipient of	of this
17. Fire supervisor / monitor		Permit will then monitor the hot work area for the 30 minutes to ensure no combustible material is ignited.	
	16.	Portable LEV provision	
18. Fire blanket required in addition to extinguisher	17.	Fire supervisor / monitor	
	18.	Fire blanket required in addition to extinguisher	

Authorisation before work starts						
The area is prepared and work may start in line with the conditions of this permit.	I have read and understood the conditions of this permit and will ensure that all workers understand the requirements.					
	Name, Position and Company of Permit Acceptor					
Name, Position and Company of Permit Issuer						
	Acceptance signature					
Signed	Data/Time					
Date/Time	Date/Time					
Date/Time  If the permit needs to be extended, re-examine work area and complete appropriate section below						
Cancellation after work is completed						
The above work has/has not been completed and the area	a is safe for normal working to resume.					
Name (Post work inspector)						
Signed (Post work inspector)						
Date/Time						
Signed (Permit Issuer)						
Date/Time						



KELLER	Title Hot Work Permit					
Document Type	Revision	Document ID	Form Number	Page		
Form	-/2013-04-18	KL_MS_3-6.3K	3-6.3K_F1	3 of 1		

## **Daily Inspection Log**

Where this hot works permit is valid for more than one day, this section must be completed to record daily post work inspection. Note any permits requiring more than 5 days must be reraised.

Valid Date	1 <sup>st</sup> day	2 <sup>nd</sup> day	3 <sup>rd</sup> day	4 <sup>th</sup> day	5 <sup>th</sup> day
Date:					
Post work Inspection					
Carried out by:					
Date/Time					
Signed:					
Approved by					

N.B. Once all boxes completed, a new permit must be issued if the hot work is to continue.



KELLER	Title 321399 – Astor College, London – Work Package Plan				
Document Type	Revision		Document ID	Page	
Form	00/2016-08.04		321399-WPP-Rev00	20 of 20	

# Appendix I – WPP Briefing



		Duration of Training				
_		Duration of Training: Tick appropriate box:		+ ·	HINK	
KELLER				- S	AFE	
	IED	Daily Briefing:				
	LER	Tool box Talk:		- * v	VORK	
		M/S Briefing:	Х		AFE	
•		Induction:				
		Other:			O HOME	
Daily I	Briefing	(Please specify)		S	AFE	
Contract name:		Training Given By:				
Astor College		First aider(s) on Site:				
Contract number:		Date:	MS Reference:	321399 - Asto	r College RAP WPP - Rev00	
321399		Date.		reifed on the Above		
Yesterdays feedback:		L	7 ii c 7 iii operatives b	renea on the Above	••	
Today's Planned Wor	ks:					
Future Works:						
Site I	Hazard	Site I	location	Control Measure		
	e, mila parties and	cted (Particularly conside	Title publicy			
Todays Questions:						
-						
3						
4						
Any Activity Specific F	DDE Roquirod?					
Any Activity Specific I	1 E Required:					
Permits Required for	Work:		Permit to Load:	Yes / No	Ref:	
Permit to Dig:	Yes / No	Ref:	Permit to enter:	Yes / No	Ref:	
Permit to Lift:	Yes / No	Ref:	Hot works Permit:	Yes / No	Ref:	
	What you need			What we d		
Declaration of Safe W	Orking Area					
Signature:	orking Area.	Date:		Name:		
	ame	Signature	N	lame	Signature	
IN C	anne	Signature	IN IN	iuiile	Jigilatule	
					+	