



**STEPHEN WILSON
PARTNERSHIP LTD**

The Construction (Design and Management) Regulations 2015



The Designers Contribution to the Pre-contract Health and Safety Plan

DESIGN HAZARD INVENTORY	
Project : <i>Wivesfield Village Hall, Wivesfield Green</i>	Proj. No: <i>E7473</i>
Client : <i>Wivesfield Village Hall</i>	Date : <i>July 2019</i>

This is the contribution to the Pre-Contract Health and Safety Plan as our role as ‘Designers’ under the CDM 2015 Regulations, and is to be issued to the CDM Principal Designer and members of the Design Team.

The following definitions apply:

Hazards	The potential to cause harm.
Risk	The likelihood that harm will occur.
1st Entry	Refers to ‘likely severity of harm’ High - Fatality, major injury or illness causing long-term disability. Medium – Injury or illness causing short-term disability. Low - Other injury or illness.
2nd Entry	Refers to ‘likelihood that harm will occur’ High - Certain or near certain to occur. Medium – Reasonably likely to occur. Low - Very Seldom or never occurs.

Note:

General health and safety issues are indicated on this schedule as guidance for the project.

Under CDM 2015, specific risk items shall be indicated on the construction information.

Any such specific high risk Engineering items will be indicated on our construction drawings.

STEPHEN WILSON PARTNERSHIP LTD, DESIGN HAZARD INVENTORY

Job Name : Wivesfield Village Hall, Wivesfield Green. Part 1 – Site Specific Risks			
Job No : E7473	Date : July 2019	Drawn : MVN	Checked : SWP
SITE WIDE ELEMENTS	Structural Engineers Comments ✓		
	Civil Engineers Comments ✓		

Construction Risk	Risk	Precautions or Actions	Remaining Risk
The new foundation to the east, west and new kitchen extension are proposed to be trenched filled concrete strip foundation requiring deep or stepped excavation. Injury or death from trench collapse.	H/H	Contractor to shore any deep excavations that may be required and do not traffic the immediate vicinity.	H/L
The existing structure is predominantly timber construction, including the main portal frame. Risk of fire avoid site welding, any welding involving galvanised material will produce toxic vapours.	M/H	Pre-fabricate off site where possible. Avoid site welding	M/L
The site is adjacent to an existing ditch, risk of surface water penetrating open foundation trenches and not draining due to silty clay.	M/L	Contractor to provide protection to open excavations to minimise water ingress. Dewatering may be required.	M/L
The site is bounded on three sides by public footpaths. Danger to public & operatives from falling debris.	H/H	Contractor to provide all necessary temporary netting to the scaffolding and protective hoarding whilst the works are carried out.	H/L
Danger of disruption or damage to existing unknown underground services.	H/H	Contractor to ensure that all authorities are contacted to check site services. Check services on CCTV survey drawing. Site scan to be carried out as required in localised areas as required.	H/M

STEPHEN WILSON PARTNERSHIP LTD, DESIGN HAZARD INVENTORY

Job Name : Wivesfield Village Hall.			
Job No : E7473	Date : July 2019	Drawn : MVN	Checked : SWP
CONSTRUCTION METHODS	Structural Engineers Comments ✓		
	Civil Engineers Comments ✓		

Construction Risk	Risk	Precautions or Actions	Remaining Risk
Injury from site excavation machinery and vehicles during main earthworks and external works construction.	H/M	Fully trained operators and banksmen only, working to agreed procedure. Operatives to have suitable personal protective protection as noted above. All works and work stages to be planned and routes for vehicles crossing the site and beyond to be clearly defined.	H/L
Erection of roof joists, wall panels, PC floor units, steel beams etc. Injury or death from falling elements and components.	H/H	Concurrent works below to be discontinued or restricted whilst erection of large construction element are underway. Ensure proper attachment points and a robust lift procure are in place. Any temporary propping to be designed by competent persons. Temporarily brace the structure as required and do not operate cranes in high winds.	H/L
<p>Risk of injury, from exposure to dust, cement, lime and burnt materials, during working, cutting, drilling, grinding and scabbling of hardened concrete.</p> <p>Short to medium term exposure - eye, nose and throat irritation.</p> <p>Long Term exposure – Silicosis (lung disease)</p>	M/M	<p>Operatives to wear protective clothing including gloves, goggles and masks.</p> <p>Provide water suppression wherever practical</p> <p>Avoid excessive vibration.</p>	M/L

STEPHEN WILSON PARTNERSHIP LTD, DESIGN HAZARD INVENTORY

Job Name : Wivesfield Village Hall.			
Job No : E7473	Date : July 2019	Drawn : MVN	Checked : SWP
CONSTRUCTION METHODS	Structural Engineers Comments ✓		
	Civil Engineers Comments ✓		

Construction Risk	Risk	Precautions or Actions	Remaining Risk
<p>Risk of injury from steel reinforcement fixing.</p> <p>Skin abrasion from tie wires</p> <p>Irritation from bar surface contaminants.</p> <p>Eye or skin damage from projecting rebar</p> <p>Crushing from instability and collapse of cages.</p>	M/H	<p>Glove always to be worn.</p> <p>Projecting rebar covered with coloured proprietary capping</p> <p>Provide temporary lateral support to tall cages and ensure that reinforcement cannot crush under its own self weight</p> <p>Workers are not to enter cages, without provision for safe access and safe extraction.</p>	
Risk of damage to existing unknown or known drainage sewers or surface water features.	H/M	Contractor to ensure that the sewers accurately located. Existing drainage MH's are to be investigated to see if they are suitable for reuse and connecting into.	H/L
Risk of damage to existing road surface and road access from new FW drain.	H/M	Contractor to ensure that the existing sewers accurately located. Topo survey of the propose drain run is to be undertaken. Correct permissions are sought for S106 connection and works are given consideration so as not damage or undermine the road or neighbouring property.	H/L

STEPHEN WILSON PARTNERSHIP LTD, DESIGN HAZARD INVENTORY

Job Name : Wivesfield Village Hall.			
Job No : E7473	Date : July 2019	Drawn : MVN	Checked : SWP
MATERIALS & MAINTENANCE	Structural Engineers Comments ✓		
	Civil Engineers Comments ✓		

STRUCTURAL MATERIALS	Risk	Precautions or Actions	Remaining Risk
Finishing paint system to steelwork.	L/L	Provide good ventilation. No lead based paint to be used. Follow manufactures' instructions and precautions.	L/L
Wall ties and fixings, including reinforcement bars.	M/L	Use only safety ties and cover or protect vulnerable rebar ends.	M/L
Blockwork - Manual lifting by operatives.	M/L	Work within H&S guidelines. Use only blockwork under 20-25Kg depending on lift repetition.	M/L

BUILDING MAINTENANCE	Risk	Precautions or Actions	Remaining Risk
High level window cleaning.	H/M	To be carried out from the ground or secured access platform. Alternatively consider fully pivoting window units that can be cleaned from inside.	H/L
Risk of falling from height or from roof levels during cleaning operations.	H/M	To be carried out from secured access platform or temporary scaffold. Consider the use of a `mansafe` or similar harness restraint system, but ensure that: <ul style="list-style-type: none"> ○ The operative in the harness is being watched by another at all times ○ A method exists for immediate rescue from such a harness. 	H/L
Future maintenance and painting etc of high level finishes.	H/M	To be carried out from secured access platform or temporary scaffold. Use pre-finished steelwork where possible.	H/L
Risk of falling from height or from roof levels during repair or replacement of any materials.	H/M	To be carried out from secured access platform or temporary scaffold.	H/L

STEPHEN WILSON PARTNERSHIP LTD, DESIGN HAZARD INVENTORY

Job Name : Wivesfield Village Hall.			
Job No : E7473	Date : July 2019	Drawn : MVN	Checked : SWP
DRAINAGE	Structural Engineers Comments ✓		
	Civil Engineers Comments ✓		

EXISTING DRAINAGE	Risk	Precautions or Actions	Remaining Risk
Gas from existing Sewers and soak away chamber.	H/M	Gas detection equipment to be available.	H/L
Confined spaces	H/M	Only trained & accredited operatives to enter with appropriate protective equipment.	H/L
Diseases (particularly weils).	M/M	All cuts & grazes to be covered, full protection equipment to be used.	M/L
Chemicals	M/M	Protective clothing to be provided.	M/L

DRAINAGE INSTALLATION	Risk	Precautions or Actions	Remaining Risk
Deep excavation / Collapse of excavation.	H/M	Trenches to be adequately planked & strutted & provided with safety rails & stops to prevent vehicular access.	H/L
Objects/people falling into trenches.	H/M	Operatives to be adequately protected with safety equipment/clothing.	H/L
Risk of failure of the existing drainage system due to poor condition.	H/M	Works are required to ensure that the existing drainage system is operating correctly prior in connecting any new drainage into.	H/L
New SW drainage run connect into and existing MH.	H/M	Contractor to ensure that the existing sewers accurately located. Topo survey of the propose drain run is to be undertaken. Correct permissions are sought for S106 connection and works are given consideration so as not damage or undermine the road or neighbouring property.	H/L

STEPHEN WILSON PARTNERSHIP LTD, DESIGN HAZARD INVENTORY

Job Name : Wivesfield Village Hall.			
Job No : E7473	Date : July 2019	Drawn : MVN	Checked : SWP
DEMOLITION	Structural Engineers Comments ✓		
	Civil Engineers Comments ✓		

Construction Risk	Risk	Precautions or Actions	Remaining Risk
<u>Risk of collapse of structure.</u> 1. Risk of collapse of sections of the building if individual walls, columns or beams are removed. 2. Risk of lateral instability if bracing walls or buttressing walls are removed.	H/H	Demolition contractor to provide method statement for top down demolition of building. Bracing walls or buttressing walls to be removed last in demolition sequence. Correctly designed temporary works to be installed if required.	H/M
Removal of precast concrete floor units.	H/M	Pre stressed PC floor units will need to be removed in whole units, to avoid them bursting. A robust lifting plan is required for the crange of precast units and cladding units Where planks and cladding panels are tied to supporting beams, via reinforcement and shear studs, these will need to be supported and carefully cut, before lifting sections out.	H/L
Instability of ground if foundations and drains are to be grubbed out.	M/M	Existing foundations may be grubbed out or left. Consideration to be given to incorporating existing foundations within the new substructure proposals.	M/L
Removal of metal or timber roof elements.	H/M	Remove in small pieces. Dismantle and remove in sequenced operation.	H/L