

# Designers Risk Assessment

<b>Project Number:</b>	23-27-18-3-6022
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<b>Project Title:</b>	Refurbishment of Warren Cottage, Thetford
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<b>Prepared By:</b>	Mark Payne 8/11/17
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<b>Reviewed by &amp; Date:</b>	Max Harrison 8/11/17
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Lead Designer     Mechanical Engineer     Structural Engineer     Landscape Designer

Ref	Element	Specific Hazards	Who is at risk?	Implication	Risk Assessment Prior to control measure		Risk Rating (SxL)	Control Methods / Details of Residual Hazards	Risk Assessment After control measure		Risk Rating (SxL)
					Severity	Likelihood			Severity	Likelihood	
<b>CONSTRUCTION</b> N.B. Record the hazards that a reasonable contractor would not be expected to foresee.											
<b>A Site Implications</b>											
1	Existing use	Vacant, but possible historical substance abuse	Operatives	Cuts from needles etc causing infection	5	2	10	PPE to be used, site to be cleaned up by trained and or specialist contractor prior to works.	1	1	1
2	Existing services	Existing services to be stripped out and renewed	Operatives	Electrocution, damage to cables and/or pipework. Contractor to survey and identify existing services.	4	4	16	Services to be located and isolated prior to works, work areas to be left safe and secure at all times.	3	2	6
3	Access	Not restricted, some deliveries and works may affect neighbours	Neighbours	Impact/crushing, accidents, inconvenience	5	1	5	Deliveries/vehicular movements to be restricted and parking only in designated areas.	4	1	4
4	Emergency Access	Inhibited escape routes	Failure to escape from fire	Smoke inhalation, burns	4	3	12	Access/ emergency access arrangements to be established. Contractor to ensure escape routes maintained	3	1	3
5	Welfare facilities	Consequences of a lack of proper facilities	Operatives	Illness, inconvenience	2	2	4	Contractor to provide own facilities within compound.	1	1	1
<b>B Demolitions / Removals</b>											
1	Asbestos	Materials containing asbestos.	Operatives	Exposure to asbestos fibres and subsequent illness.	4	3	12	R&D Survey has obtained and issued at tender. Some items to be removed by specialist/safe method of working to be established, contractor to cease works if any suspected ACMs are discovered and contact the CA immediately.	4	1	4
2	Repairs to existing walls/floors etc	Falling masonry/ structural collapse	Operatives	Impact/crushing	4	2	8	Proper investigation/support/propping/seek structural advice/follow guidelines safe method of work.	4	1	4
4							0				3
<b>C Groundworks</b>											
1	Contamination	Contamination of existing bore hole	All/local residents/future tenant	Illness/loss of supply	4	2	8	Works to not affect water supply, measures to be taken to eliminate risk.	1	1	1
2	Proposed Service Routes	Electrics, gas & water	Operatives	Flood, explosion or electrocution	5	2	10	Review available info, CAT scan, hand dig etc.	5	1	5
3	Foundations - Piled	N/a	Operatives				0		0	0	0
4	Trenching for foundations/ services etc	N/a	Operatives		0	0	0		0	0	0
5	Concrete Pouring	N/a	Operatives		0	0	0		0	0	0
6	Foundations - Raft	N/a	Operatives		0	0	0		0	0	0
7	Retaining Walls	N/a	Operatives		0	0	0		0	0	0
8	Concrete Paving	N/a	Operatives		0	0	0		0	0	0
8	Asphalt Surfacing	N/a	Operatives		0	0	0		0	0	0
<b>D Floor Structure</b>											
1	Existing Floor Construction	Repairs to existing concrete floors/roof deck	Operatives	Irritation etc from repair mortar system	2	3	6	Follow guidelines/appropriate PPE	1	2	2
2	New mass concrete floor						0				0
3	PCC Units	N/a					0				0
4	Timber	N/a					0				0
<b>E Superstructure</b>											
4	Steel Members				0	0	0		0	0	0
2	Timber Framed				0	0	0				0
3	Reinforced Concrete				0	0	0				0
<b>F Wall Structure</b>											
1	Repairs to existing walls/floors etc	Falling masonry/falls	Operatives	Falling from heights/impact	4	3	12	Safe method of work/access platform	4	1	4
2	Steel /timber Framed	New studwork walls	Operatives	Power tools, dust/debris, hidden services	2	2	4	Correct use of power tools and PPE, review available info on services.	1	2	2
3	Single Skin Masonry						0				0
4	Composite Cladding						0				0
5	Windows/Doors	Installation of large components	Operatives	Manual handling, crushing, muscle strain and other injuries , falls from height, impact	2	4	8	Safe method of work to be established for manual handling, use of working platforms. Safe working area to be established.	1	2	2
6	Masonry walling						0				0
<b>G Roof Structure</b>											
1	Steel Framed (pitched)						0				0
2	Steel Framed (flat)						0				0
3	Timber Framed (pitched)				0	0	0		0	0	0
4	Timber Framed (flat)				0	0	0		0	0	0
5	Cladding - Tiled	Repairs to roof slopes/chimneys	Operatives	Falls, crushing, impact from tools/materials	5	2	10	Safe method of work/access platform (full scaffold)	3	1	3
6	Cladding - Standing seam metal						0				0
7	Cladding - Composite panel						0				0
8	Cladding - Flat Roofing System	Roofing work (torch-on felt)	Operatives	Falls, cuts, irritation/fumes, fire/burns etc	4	2	8	Safe method of work/access platform, PPE, use of specialist aware of risks/monitor sub-works, hot works permit issued	3	1	3
9	Concrete Roof Structure	Repairs to soffit	Operatives	Irritation etc from repair mortar system	2	3	6	Follow guidelines/appropriate PPE	1	1	1
10											
<b>H Finishes</b>											
1	Floor - Latex screed/DPM etc	Addesives/finishes	Operatives	Respiratory problems, minor injuries	3	2	6	Follow recommendations and guidelines for products	2	1	2
2	Flooring Generally	Addesives/finishes	Operatives	Respiratory problems, minor injuries	3	2	6	Follow recommendations and guidelines for products	2	1	2
3	Wall - Plastered	Addesives/finishes	Operatives	Respiratory problems, minor injuries	3	2	6	Follow recommendations and guidelines for products	2	1	2
4	Walls/Ceilings Drylined	Fixing of plasterboard	Operatives	Large components/manual	3	2	6	Follow guidelines/PPE	2	1	2
5	Wall - Tiled	Addesives/finishes	Operatives	Respiratory problems, minor injuries	3	2	6	Follow recommendations and guidelines for products	2	1	2
6	Wall - Laminate panel						0				0
7	Ceiling - Exposed	Addesives/finishes	Operatives	Respiratory problems, minor injuries	3	2	6	Follow recommendations and guidelines for products	2	1	2
8	Ceiling - Ply boarded						0				0
9	Ceiling - Tiled						0				0
<b>I Electrical Services</b>											
1	Existing Service	Extending existing services 240v, gas fitting work to new boiler	Operatives	Electrocution/explosion, loss of services	5	2	10	Services located /isolated, safe access provided	4	1	4
2	Working at height	works to roof >3m	Operatives	Falling from heights/impact	4	2	8	Services located /isolated, safe access provided	4	1	4
3	Mechanical Fixing	Drilling thro existing hidden/buried services	Operatives	Electric Shock	4	2	8	Services located /isolated, safe access provided	4	1	4
4	Supply routes	Divert existing services	Operatives	Electric shock/loss of services	4	2	8	Services located /isolated, safe access provided	4	1	4
<b>J Mechanical Services</b>											
1	Existing Service	Rerouting existing pipework	Operatives	Scalding	3	2	6	Isolate services properly using industry recognised best practice	3	1	3
<b>K Fixed Equipment</b>											
1	Sanitaryware	Manual handling, sharp objects	Operatives	Muscular / skeletal injury	3	2	6	HSE manual handling to be followed.	2	1	2

