



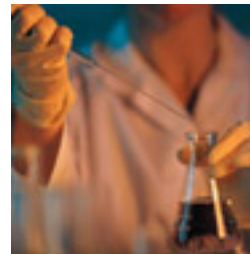
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## Designers Risk Assessment

Project: Great Baddow Cemetery Extension

Document Ref: CDS-GRT-BDW-05

Date: 18<sup>th</sup> December 2018




## **Project Summary**

The project is for the development of a new section of cemetery adjacent to the existing cemetery at Great Baddow. The works include drainage installation comprising excavation and landscaping of a detention basin, installation of a system of lateral, collector and carrier drains, reinstatement, installation of an outfall in a ditch and seeding. Construction of a Macadam roadway, kerbing and drainage gullies. Connection of roadway drains to land drain system. Cultivation, levelling and seeding of the designated extension area.

Specifically, the proposed works consist of installing new drainage infrastructure including piped drains, chambers, sumps, headwalls and access chambers. In addition, part of the site will be stripped of topsoil, the subsoil re-graded and the topsoil replaced and graded to finished levels. Parts of the works will involve working in moderate proximity to existing graves with some hand dug drains being necessary.

Anticipated mobilisation date – as conditions allow in later spring / early summer 2019.

## Designer's Stage F Risk Assessment


Designer: A Vickers	Project: Great Baddow Cemetery Extension	
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Ref No	Activity / Element	Potential Hazard	Population At Risk	Risk Rating			Action at Design Stage	Action Taken		Possible Control Options (Contractors)
				L	S	R		By	Date	

### 1.0 Site wide

1.1	Deliveries to site	Site access/egress and potential damage to vehicles and harm to pedestrians	Public Contractor	H	M	H	Clear, safe, separate routes for vehicles and pedestrians to be established and clearly marked. <b>Access to downslope allotment to be maintained via diversion as needed.</b> Secure contractors compound to be established in allotment car park area but to be separate and secured from allotment users and public.	CDS		All deliveries and large vehicles to arrive via agreed access points during an agreed time period.
1.2	Trespass by members of the public	Unauthorised access onto site.	Public	M	H	H	Contractor zones clearly identified on Drawings	CDS		Site is an active, working cemetery. Works areas shall be temporarily secured using appropriate fencing and all excavations covered as required to allow access to graves.
	Movement of sub soil and spoil	Contact with moving vehicle/ plant	Public Contractor	M	M	M	Adequate space must be allowed to enable the manoeuvring of vehicles safely on site.	CDS		Movement of vehicles off site to be controlled with banksmen. Site compound to have designated pedestrian routes. Mobile telephones to be used only within designated compound on site.
1.3	Demolitions and general excavations	Below ground services	General public Contractor	L	H	H	Existing services are to be identified by contractor's survey.	Contractor		Contractor to carry out search.


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1.5	Simultaneous activities	Conflicts of multidisciplinary activities	Contractor	L	M	M	A strategy management document to be produced by site CA and Contractor	CDS		Programme works to avoid potential clashes.
1.6	General operations on site	Fire or other emergency	Public Contractor	M	H	H	Fire escape strategy to be developed with successful tenderer	CDS		Contractor to identify escape routes to safe areas and establish muster points for each section of the works. H&S notices to be provided on site to advertise fire strategy and congregation points.

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### 2.0 Working space / working platforms

2.1	Working in confined Spaces	Entrapment	Contractor	M	M	H	All manholes are less than 2.0 meters depth. Pit sides will need securing.	CDS		Certificates for qualifications of working in confined spaces to be supplied with contractor method statements.
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### 3.0 Materials / substances / components

3.1	Manual handling of materials	Manual handling/ musculoskeletal injuries	Contractor	H	L	M	Materials as far as possible have been specified that are within acceptable safe limits for manual handling.	CDS		Contractor to allow for requirements for specialist lifting / handling equipment. 2 no. operatives required for manual handling of materials in excess of 20kg.
3.2	Wet mortar/concrete	Skin diseases	Contractor	M	M	M	Concrete used for haunching, foundation slabs and effecting water-tight seals.	CDS		Ensure enforcement of PPE

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### 4.0 Earthworks

4.1	Initial soil stripping and grading works	Ground contamination	Contractor	L	L	L		CDS		Due to the history of the site as open space and investigation work completed to date, it is understood that there should be no contamination of the ground.
4.2	Excavations for trenches	Instability of earth and flooding	General public Contractor	L	M	M	Generally simultaneous back-filling excepting hand dug trenches. Depth limited to 0.7m. No trenches left unfilled overnight.	CDS		Minimal risk due to shallow depth of excavation for hand dug trenches. Begin at outfall where possible, pumps available for sump construction. No trenches left unfilled overnight.
4.3	Excavations for Detention basin	Instability of earth and flooding	General public Contractor	L	M	M	Keep sides of basin no steeper than 1:5.			Ensure outfall to ditch is in place ahead of basin construction.
4.4	Excavations for sumps	Instability	Contractor	L	M	M	Designed for mechanical operation will ensure labour will be manual, and labour will be kept clear of pit walls. Shoring of walls may be needed.	CDS		Method statements
4.5	Installation of concrete chambers	Wet concrete mortar, alkaline burns Lifting	Contractors	M	M	M		CDS		Enforcement of PPE Contractor to allow for requirements for specialist lifting / handling equipment.
4.6	Exportation of soil arisings	Vehicle movement hazards	Contractors Public	H	H	H	Clear walk ways and pedestrian route ways to be designated before works start on plans. Timing of works to avoid peak visiting times.	CDS		Designated walkways to be marked out on site under supervision from PM and movement timings agreed.

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### 4.0 Earthworks cont..

4.7	Grading of soil mounds	Vehicle movement hazards	Public Contractor	H	H	H	Clear walk ways and pedestrian route ways to be designated before works start on plans	CDS		Designated walkways to be marked out on site under supervision from PM
4.8	Installation of pipes and ducting	Manual handling/ musculoskeletal injuries	Contractor	H	L	M	Materials as far as possible have been specified that are within acceptable safe limits for manual handling.	CDS		Contractor to allow for requirements for specialist lifting / handling equipment. 2 no. operatives required for manual handling of materials in excess of 20kg.