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Designers Risk Assessment

Project: Houghton Regis Garden of Remembrance

Document Ref: CDS-HRT_DRA

Date: 7th MAY 2019




Project Summary

The project is for the creation of infrastructure and landscape features for Houghton Regis Town Council's Garden of Remembrance.

Specifically, the proposed construction works consist of the development of the hard and soft landscaping, specifically the grading levelling of landscape, stripping of top soil exportation of sub soil arisings around the site. Construction of hard surfaces, drainage and planting of trees and shrubs.

Anticipated mobilisation date August 2019

Designer's Stage F Risk Assessment


Designer: Justin Smith	Project: Houghton Regis Cemetery Extension	
Job No: CDS-HRT_DRA	Date 07.05.2019	

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 pedestrians to be established and clearly marked. Secure contractors compound to be established and no general public access to the site is to be allowed.	CDS	May 19	All deliveries and large vehicles to arrive via agreed access points during an agreed timescale.
1.2	Trespass by members of the public	Unauthorised access onto site.	Public	L	H	M	Contractor zones clearly identified on Drawings	CDS	May 19	Security to site to be maintained with suitable fencing and hoarding with lockable gates. Security measures to be maintained both during the working day and overnight / weekends.
	Movement of sub soil and spoil	Contact with moving vehicle/ plant	Public Contractor	M	M	M	Adequate space must be allowed for to enable the manoeuvring of vehicles safely on site. Location of easement shall avoid busy routes.	CDS	May 19	Movement of vehicles off site to be controlled with banksmen. Site compound to have designated pedestrian routes. No mobile phone use outside compound to avoid distraction.
1.3	Demolitions and general excavations	Below ground services	General public Contractor	L	L	L	Existing services are highlighted on consultant drawings.	CDS	May 19	Check survey drawings prior to commencement.


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1.5	Simultaneous activities	Conflicts of multidisciplinary activities	Contractor	L	M	M	A strategy management document to be produced by Main Contractor	CDS	May 19	Programme works to avoid potential clashes.
1.6	General operations on site	Fire or other emergency	Public Contractor	L	M	M	Fire escape strategy to be developed with successful tenderer	CDS	May 19	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	Kerbs and block work	Manual handling/musculoskeletal injuries	Contractor	M	M	M	Space allowed for mechanical handling in locations where kerbs and blocks required.	CDS	May 19	Method statement required for bringing blocks onto working level. Mechanical assistance to be used wherever possible.
2.2	Working in confined Spaces	Entrapment	Contractor	M	M	H	All manholes are less than 1.2 meters depth. Soakaway depth requires staff certified to work in confined spaces only be used in this element of the works.	CDS	May 19	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. No handling of materials over 20 kg without assistance or mechanised equipment.	CDS	May 19	Contractor to allow for requirements for specialist lifting / handling equipment. 2 no. operative required for manual handling of materials in excess of 20kg.
3.2	Wet mortar/concrete	Skin diseases	Contractor	M	M	M	Concrete used for haunch of kerbs, Inspection Chambers etc. minimised.	CDS	May 19	Ensure enforcement of PPE.
3.3	Macadam and or resin	Skin diseases/Burns	Contractor	M	M	M	Surfacing of pathways	CDS	May 19	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	It has a long use as a burial ground so there may be contamination unlikely	CDS	May 19	Contractor to inform CA immediately if any suspected contamination found.
4.2	Movement 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.	CDS	May 19	Designated walkways to be marked out on site under supervision from PM.

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4.0 Earthworks cont

4.7	Grading of soil mounds	Vehicle movement hazards	Contractor Public	H	H	H	Clear walk ways and pedestrian route ways to be designated before works start on plans. Gradients to be no more than 1:3	CDS	May 19	Designated walkways to be marked out on site under supervision from PM
4.8	Digging of tree pits by excavator	Vehicle movement hazards	Contractor Public	H	H	H	Clear walk ways and pedestrian route ways to be designated before works start on plans	CDS	May 19	Designated walkways to be marked out on site under supervision from PM
4.6	Installation of pipes and ducting	Manual handling/ musculoskeletal injuries	Contractor	L	L	M	Materials as far as possible have been specified that are within acceptable safe limits for manual handling.	CDS	May 19	Contractor to allow for requirements for specialist lifting / handling equipment. 2 no. operative required for manual handling of materials in excess of 20kg.

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5.0 Laying of hardstanding

5.1	Initial soil stripping and grading works	Vehicle movement hazards	Contractor Public	H	H	H	Clear walk ways and pedestrian route ways to be designated before works start on plans. Gradients to be no more than 1:3	CDS	May 19	Designated walkways to be marked out on site under supervision from PM
5.2	Importation of construction materials	Vehicle movement hazards	Contractor Public	H	H	H	Clear walk ways and pedestrian route ways to be designated before works start on plans	CDS	May 19	Designated walkways to be marked out on site under supervision from PM

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6.0 Soft landscaping

6.1	Tree planting	Manual handling/ musculoskeletal injuries	Contractor	M	M	M	Large plants are containerised allowing mechanical lift	CDS	May 19	CM to ensure all plants ordered by contractor comply with specification
6.2	Handling compost	tetanus	Contractor	H	H	H	Open access to maximise opportunity for machine use		May 19	Contractor to be informed of risk and enforce PPE
6.2	Planting of cane supported plants	Eye injuries	Contractor	M	M	M	Open access to maximise opportunity for machine use		May 19	Contractor to be informed of risk and enforce PPE. Use high-visibility covers over end of canes

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7.0 Crane movements

7.1	Lifting of concrete kerbs, headwalls, precast chambers and soakaway units and off-loading from pallets	Crush injuries	Contractor	H	H	H	Operations should not take place in confined areas and should be accompanied by a banksman	CDS	May 19	Contractor to ensure all crane operators are licensed. Ropes to be used for guidance Enforcement of full PPE
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