

Project No:	D3296	Document No:	D3296_FAB_00_XX_RR_L_0001	Revision	PL01
Project Name:	The One Murphy Ollerton Hub	Document Title	Landscape CDM Risk Register	Date	01.12.2023
Client Name:	J.Murphy	Document Status	Planning	Issued By	sw

Revisions:

Rev.	Date	Reason for Issue	Prepared by	Issued by
PL01	01.12.23	First issue	sw	sw

General Standards & Expectations

This document has been prepared, on behalf of J.Murphy in order to identify specific hazards arising within The One Murphy Ollerton Hub development. The document is prepared in accordance with 'Managing health and safety in construction – Construction (Design and Management) Regulations 2015'.

Any works shall be carried out in accordance with the approved fabrik drawings and specifications. Good horticultural practice and the current British Standards should be followed with all operatives being trained according to the task to be undertaken. It shall be the contractor's responsibility and liability for any damage to person or property, however caused whilst on site.

Drawing List:

The risk assessment has been prepared based on the following drawing list:

D3296-FAB-00-XX-DR-L-1000	Legend, Indicative Plant Schedule & Soft Landscape Specification Notes
D3296-FAB-00-XX-DR-L-1001-1013	Soft Landscape General Arrangement Plans

Project No:	D3296	Document No:	D3296_FAB_00_XX_RR_L_0001	Revision	PL01
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Hazard Reference	CDM001				
Drawing Reference	D3296-FAB-00-XX-DR-L-1001-1013				
Activity / Element	Existing trees				
Potential Hazard	Danger from falling limbs both during construction and operation.				
Design Mitigation	All tree works to be carried out according to BS5837 2012 Trees in relation to design, demolition and construction. Recommendations and BS3998 2010 Tree Work-Recommendations. Contractor to comply with Arboricultural Method Statement and reports.				
Residual Risk	Construction	Recommended tree works to be undertaken pre-construction. Adequate tree protection to be installed during the works. A watching brief to be conducted by a qualified arboriculturalist throughout construction is recommended due to excavation in close vicinity to trees			
	Operation	Carry out regular assessments in accordance with BS5837 2012 Trees in Relation to Construction. All tree works to be carried out to BS3998 2010 Tree Work-Recommendations. Continued annual inspection during operation of school and to be included in O and M manual.			

Hazard Reference	CDM002				
Drawing Reference	D3296-FAB-00-XX-DR-L-1001-1013				
Activity / Element	Tree removal				
Potential Hazard	Potential damage/ killing fauna.				
Design Mitigation	<ul style="list-style-type: none"> Trees to be removed are clearly identified on site as per Arboricultural information The number of trees to be removed has been minimised as part of design process 				
Residual Risk	Construction	Removals to be undertaken by suitably qualified professionals.			
	Operation	n/a			

Hazard Reference	CDM003				
Drawing Reference	D3296-FAB-00-XX-DR-L-1000				
Activity / Element	Plant species				
Potential Hazard	Specification of toxic plant species that may cause skin/eye irritation and/or may be harmful if eaten. Spiky/thorny plants posing risk of harm				
Design Mitigation	<ul style="list-style-type: none"> Detailed design to consider the placement of toxic plants away from amenity areas Mild toxicity with very low severity of risk Spiky/thorny plants proposed in habitat areas or used as defensive planting and not in amenity areas 				
Residual Risk	Construction	n/a			
	Operation	n/a			

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Hazard Reference	CDM004	
Drawing Reference	D3296-FAB-00-XX-DR-L-1000	
Activity / Element	Seed Sowing	
Potential Hazard	Invasive species	
Design Mitigation	Seed mixtures have been specified to ensure correct meadow establishment and no invasive species are used	
Residual Risk	Construction	Contractor to demonstrate correct seed mixtures are used via certificate
	Operation	Ongoing maintenance to ensure invasive species are removed

Hazard Reference	CDM005	
Drawing Reference	D3296-FAB-00-XX-DR-L-1000	
Activity / Element	Large trees specified for the scheme	
Potential Hazard	Manual handling/musculo-skeletal injuries from lifting of large elements	
Design Mitigation	All proposed trees/plants specified to be lifted using suitable heavy equipment or crane and placed directly into the pits to minimise handling.	
Residual Risk	Construction	<ul style="list-style-type: none"> Contractor with experience of installing large trees to be appointed Contractor to provide safe working method for installation of the trees during construction Mechanical lifting equipment will be required at all levels to assist with the minor movements required to position trees
	Operation	Following completion of the construction works, replacement trees will need to be installed using a temporary crane. Method statements will be required for mechanical lifting and separation from the public/students

Hazard Reference	CDM006	
Drawing Reference	D3296-FAB-00-XX-DR-L-1000	
Activity / Element	Tree planting within pedestrian areas and/or overhanging vehicular routes	
Potential Hazard	Low branches. Reduced visibility	
Design Mitigation	All proposed trees have been specified with a 2m clear stem Trees with large spreading canopies to be specified away from vehicular routes	
Residual Risk	Construction	n/a
	Operation	As trees establish and grow, 2m clear stem will need to be maintained. To be included within Landscape Maintenance and Management Plan

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Hazard Reference	CDM007				
Drawing Reference	D3296-FAB-00-XX-DR-L-1000-1013				
Activity / Element	Soft Landscape within car parks				
Potential Hazard	Reduced visibility due to plant heights				
Design Mitigation	Small to medium sized plant species have been specified				
Residual Risk	Construction	n/a			
	Operation	Ongoing maintenance of planting to ensure heights are kept to a maximum of 600mm for visibility. Requirements to be included within Landscape Maintenance and Management Plan			

Hazard Reference	CDM008				
Drawing Reference	D3296-FAB-00-XX-DR-L-1000				
Activity / Element	Proposed Delivery of Nursery Stock to Site				
Potential Hazard	Biosecurity and Importation of notifiable pest and diseases onto site.				
Design Mitigation	<p>Understanding of requirement of biosecurity ahead of operations on site</p> <p>Defra nursery inspection reports are to be obtained prior to movement / transportation of stock</p> <p>Nursery is to supply their biosecurity protocols carried out on the nursery</p> <p>Nursery is to supply their biosecurity procedures that are followed on the nursery</p> <p>Landscape architect to inspect stock and the above prior to delivery of plants to site</p>				
Residual Risk	Construction	<ul style="list-style-type: none"> • Stock is to be inspected upon delivery at site to ensure the stock inspected at the nursery is the same stock • Inspection and review of the nurseries plant passport • Inspection and review of the nurseries plant health check policy and procedures • Inspection and review of the nurseries plant inspection report carried out by the Governments Animal and Plant Health Agency • Inspection of the first delivery of nursery stock to be carried out • Landscape contractor is to advise the landscape architect of any future deliveries so that further inspections can be carried out prior to planting 			
	Operation	n/a			

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Hazard Reference	CDM009				
Drawing Reference	Architect's Surface Treatment Plans				
Activity / Element	Landscape Materials				
Potential Hazard	Dust and small particles produced from landscape hard materials				
Design Mitigation	<ul style="list-style-type: none"> Materials have been specified to reduce / avoid creation of dust that poses risk to the contractor during installation and the public post installation. Contractor to carry out toolbox talks and provide appropriate equipment at the construction stage to personnel. 				
Residual Risk	Construction	Method statement for work during construction. Safety measures following audits.			
	Operation	n/a			

Hazard Reference	CDM010				
Drawing Reference	Architect's Surface Treatment Plans				
Activity / Element	Construction of hard paved elements and other stonework				
Potential Hazard	Cutting stone/concrete on site. Cuts and abrasions to personnel				
Design Mitigation	Paving layout designed to reduce cutting as far as possible. The specification of materials with sharp edges has been avoided where possible.				
Residual Risk	Construction	Small cuts may be unavoidable			
	Operation	n/a			

Hazard Reference	CDM011				
Drawing Reference	Architect's Surface Treatment Plans				
Activity / Element	Hot Work / Handling dangerous materials				
Potential Hazard	Fire/Explosion Dust Fumes/Chemical Splash				
Design Mitigation	<ul style="list-style-type: none"> Design minimal hot work elements where possible. Contractor to ensure correct method statements are produced and presented to operatives. 				
Residual Risk	Construction	Method statement for work during construction. Safety measures following audits.			
	Operation	n/a			

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Hazard Reference	CDM012	
Drawing Referenc	D3296-FAB-00-XX-DR-L-1001-1013	
Activity / Element	Proposed services and drainage	
Potential Hazard	Conflicts with landscape elements and the proposed services and drainage on site.	
Design Mitigation	Root barriers for trees in close proximity to services	
Residual Risk	Construction	<ul style="list-style-type: none"> Review of proposed drainage and service locations in relation to landscape to be carried out at tender/construction stages. Final location to be agreed and checked on site. Tree planting areas are to be clearly identified, as built record drawings of services required prior to landscape contractor starting on site. Provide adequate survey information prior to construction. Coordinate with school on any potential disruption to service to existing buildings
	Operation	n/a

Hazard Reference	CDM013	
Drawing Reference	D3296-FAB-00-XX-DR-L-1001-1013	
Activity / Element	Areas with poor surveillance	
Potential Hazard	Areas within landscape buffers providing opportunities for crime/access to adjacent dwelling gardens	
Design Mitigation	Site to be securely fenced with manned on-site security personnel Area adjacent to Kelsey Avenue boundary to be planted with defensive species to discourage access between gardens and site	
Residual Risk	Construction	n/a
	Operation	Planting to be maintained as part of site-wide management prescriptions to prevent excessive growth and overshadowing of gardens.

Hazard Reference	CDM014	
Drawing Reference	D3296-FAB-00-XX-DR-L-1001-1013	
Activity / Element	Steep Slopes	
Potential Hazard	Falling / reduced visibility / maintenance issues	
Design Mitigation	<ul style="list-style-type: none"> Slopes to earth mounding designed to have a gradient no greater than 1:3 All buildings and accessible areas to allow step free, level access. Where this is not possible due to site constraints, additional step free routes of maximum 1:21 gradient are provided 	
Residual Risk	Construction	Consider early temporary guardrail installation where required.
	Operation	Maintenance contractor should carry out their own risk assessment and develop appropriate methodology for maintaining these areas. Particular consideration should be given to the following areas: Use of chemicals / movement and use of mechanical equipment on banks / removal of arisings and other organic debris. Maintenance of steep slopes to be undertaken by qualified personnel and the correct safe procedures are to be put in place.

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Hazard Reference	CDM015				
Drawing Reference	Architect's Surface Treatment Plans				
Activity / Element	Drop kerbs within car park for fire tender access / disabled parking and bin lorry access				
Potential Hazard	Vehicle overrun at dropped kerbs				
Design Mitigation	<ul style="list-style-type: none"> Bollards located in front of dropped kerbs that do not require access (disabled bays) Collapsible bollard located in line of bin lorry access route to allow authorised access when required 				
Residual Risk	Construction	n/a			
	Operation	n/a			

Hazard Reference	CDM016				
Drawing Reference	D3296-FAB-00-XX-DR-L-1001-1013				
Activity / Element	SuDS basin and natural ponds				
Potential Hazard	Water hazard, falling in. Stagnant water. Detailed pond design to be reviewed regarding potential for build-up of algae and other unwanted species.				
Design Mitigation	<ul style="list-style-type: none"> Landscape Architect to assist in detailed design of SuDS basin. Banks profile to be maximum 1:3 and design to consider opportunities for gentler slopes. Planting to be designed around headwalls to discourage access. Basin design to explore marginal shelves to base and edges of pond, allowing stepped escape as well as depths suitable for oxygenating plants Natural ponds to be designed with gentle bank profiles (max 1:3) with planting to the edges used to discourage access. Design to take account of proximity to public access (subject to PROW confirmation/extinguishment within eastern field/Habitat Area). 				
Residual Risk	Construction	n/a			
	Operation	n/a			

Hazard Reference	CDM017				
Drawing Reference	Architect's Layout and Surface Treatment Plans				
Activity / Element	Site personnel walking through yard				
Potential Hazard	Conflict between HGV vehicles and personnel walking within site				
Design Mitigation	<ul style="list-style-type: none"> Clear walking routes to be laid out on site with appropriate signage Hard landscape scheme to consider bollards to define pedestrian routes 				
Residual Risk	Construction	n/a			
	Operation	<ul style="list-style-type: none"> Site induction to identify risks to site personnel and visitors Site policy for PPE to be worn by all personnel walking through site 			

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Hazard Reference	CDM018	
Drawing Reference	D3296-FAB-00-XX-DR-L-1001-1013	
Activity / Element	Steps over embankment	
Potential Hazard	Steep steps with potential hazard to fall from height	
Design Mitigation	<ul style="list-style-type: none"> • Detailed design of steps to consider steepness of flights • Handrails to be provided • Step treads to include easily visible and non-slip materials • Lighting to be considered in light of intended usage levels. 	
Residual Risk	Construction	n/a
	Operation	<ul style="list-style-type: none"> • On-going landscape management prescriptions to include removal of all leaf litter and debris from adjacent mature vegetation.

Notes:

- In accordance with the Construction Design Regulations 2015, a design risk assessment has been undertaken for the elements of work shown on the landscape planning drawings.
- The contractor shall ensure that prior to commencement of works, all work shall have in place a full method statement and risk assessment. The contractor shall also ensure that all operatives are correctly inducted and are competent to undertake the work. All temporary works required to undertake the works shall be designed by the contractor. Any special construction sequences are identified on the drawing where required.