Committees: Corporate Projects Board - for decision Project Sub Committee – for decision	Dates: 26 August 2020 15 September 2020
Planning and Transportation Committee - for decision	06 October 2020
Subject: London Wall Car Park – Ventilation, Electrical, Fire Alarm and Sprinkler Works (Ref – CS 295/20) Unique Project Identifier:	Gateway 2: Project Proposal Regular
PV ID: 12227	
Report of: City Surveyor Report Author: Jessica Lees	For Decision
PUBLIC	

Recommendations

1. Next steps and requested decisions

Project Description: This project will install a new ventilation system, upgrade the power supply, replace the current electrical installation to bring this up to compliant standards, including replacing the lighting and sprinkler system, and installing a carbon monoxide and fire detection system at London Wall Car Park.

Next Gateway: Gateway 3/4 - Options Appraisal (Regular)

Next Steps:

To get a detailed survey to provide options at gateway 3/4

Requested Decisions:

- That budget of £240,000 is approved to carry out enabling works, including an upgrade of electrical supply and more detailed surveys to prepare the M&E design and tender documents to reach the next Gateway;
- 2. Note the total estimated cost of the project of £1,155,000 (excluding risk);

- 3. Note that there is a Costed Risk of £260,000 (post-mitigation)
- 4. Note that the total estimated cost of the project of £1,415,000 (including risk);
- 5. Note that an element of funding for this project was approved 'in principal' by from the Resource Allocation Sub Committee, with draw down subject to further approval at the next gateway.

2. Resource requirements to reach next Gateway

Item	Reason	Funds/ Source of Funding	Cost (£)
UKPN	Upgrade of the electrical supply	CWP - R089CW001 L - London Wall Car Park Ventilation and extract system works	£25,000
Consultant services engineer	To carry out surveys and prepare detailed M&E design and tender documents	CWP - R089CW001 L - London Wall Car Park Ventilation and extract system works	£60,000
R&D asbestos survey	Survey to locate and identify all asbestoscontaining materials (ACMs)	CWP - R089CW001 L - London Wall Car Park Ventilation and extract system works	£15,000
Asbestos removal	To remove ACMs before work commencement	CWP - R089CW001 L - London Wall Car Park Ventilation and extract system works	£50,000
Smoke stimulation	To carry out a CFD analysis	Additional resources for	£25,000

		City Fund properties*	
Fire risk consultant	To review fire risks identified against highway structure	Additional resources for City Fund properties*	£25,000
Structural consultant	To review fire risks identified against highway structure	Additional resources for City Fund properties*	£20,000
CDM advisor	To meet health and safety duties	Additional resources for City Fund properties*	£10,000
Other	Planning/ building control	Additional resources for City Fund properties*	£5,000
Staff costs	Project management	Additional resources for City Fund properties*	£5,000
Total			£240,000

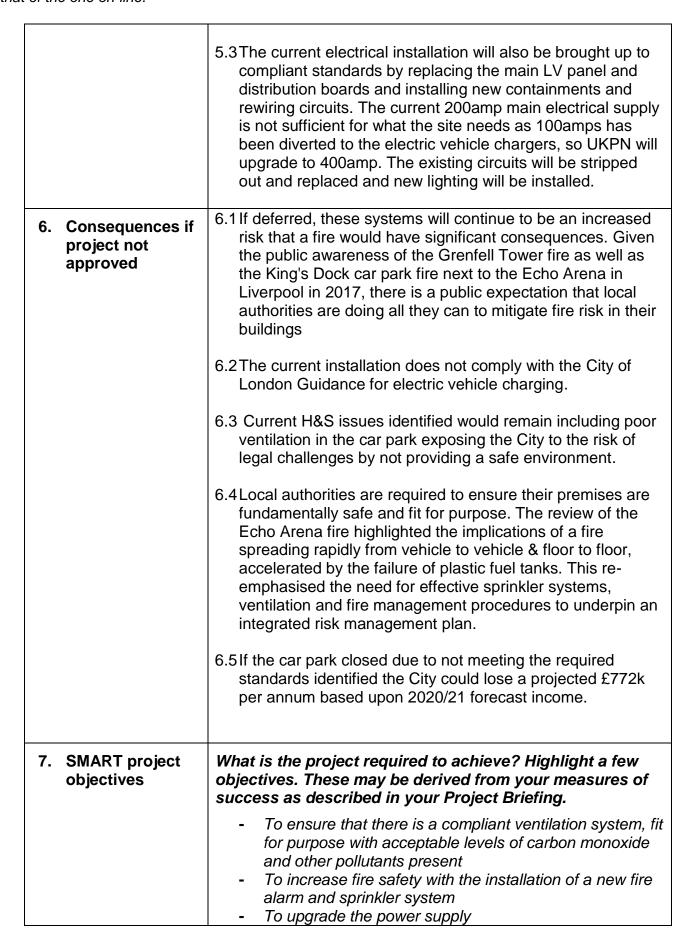
*Report of the Chamberlain dated 02/05/2019 – Cyclical Works Programme (CWP) and Additional Resources for City Fund Properties – Request for Funding for 2019/2020

3. Governance arrangements

- Planning and Transportation
- Ian Hughes, Assistant Director, Highways
- A project board is not required as this is a regular project and works are not considered complex or to impact on a high number of stakeholders
- The project will be progressed by the City Surveyor's Department (CSD) in conjunction with the Department of Built Environment.
- CSD Project Manager Carmel McGowan, Senior Principal Engineer

Project Summary

4.1 The electrical installation is in a poor condition and requires 4. Context urgent attention. 4.2A recent fire risk assessment identified that extensive work is required to the ventilation, fire alarm and sprinkler systems. 4.3 Ventilation of car parks is recommended in order to limit concentrations of carbon monoxide (CO) and other vehicle emissions in the day-to-day use of car parks and to remove smoke and heat in the event of a fire. 4.4The existing ventilation system is no longer operational, the fans are obsolete, it is critical that ventilation is reinstated to control the amount of potentially harmful airborne pollutants present in the car park. 4.5 There is no means to dissipate heat and smoke and the current state of the car park facilities could be considered a Health and Safety at Work Act contravention. 4.6 There are 6No electric vehicle charging points installed in the carpark. They are considered to be a high risk as the ventilation system is not operational and there is no way to remove fumes and smoke in the event of a battery fire. 4.7 Currently it is not possible to quickly isolate electrical supplies to battery charging units in the event of an emergency. 4.8 The existing fire alarm and sprinkler systems are unable to respond rapidly to an electric vehicle fire. 4.9 The work identified is in line with the forward maintenance plan for the property. 5.1 The project will upgrade the electrical supply, install a new 5. Brief description ventilation system, sprinklers, and a carbon monoxide and of project fire detection systems in the car park. 5.2 As the structure of the car park is a highway structure fire and structural consultants will be commissioned to ensure that the design addresses the necessary compliance required for this high risk.



	- To deliver compliant electrical installations with the adequate lighting, including emergency lighting
8. Key benefits	 To reduce energy charges associated to lighting as LED smart lighting would be installed To reduce maintenance charges as the smart system does not require manual monthly PPMs
9. Project category	1. Health and safety
10. Project priority	A. Essential
11. Notable exclusions	11.1 Fire door replacements – this will be covered within the Fire Safety – Works in Car Parks Project which is due to go to committee for approval in October/ November. The reason for keeping this item separate is due to economies of scale with other works within the Works in Car Parks project scope.

Options Appraisal

12. Overview of	Numbered list format
options	Option1 – Closure of the car park due to not meeting the required standards identified and high risk to the public
	Option 2 Part retain and part replacement of the existing mechanical and electrical (M&E) services
	Option3 – Replace all of the M&E Services

Project Planning

13. Delivery period and key dates	Overall project: Eight months from start work on site/estimated completion date April 2022
	The project briefing previously estimated a completion date of between June and August 2021, this was on the basis that the project would start on site between May – June 2020. Due to review of project scope and detailed survey requirements identified within this gateway 2, the start on site date is now estimated October 2021 with an estimated completion date of April 2022.

	Key dates:	
	Gateway 2 approval	September & October 2020
	Appoint consultant for survey and design	December 2020
	Instruct UKPN to upgrade electrical supply	December 2020
	Undertake asbestos R&D survey	December 2020
	Gateway 3/4 report for approval	February 2021
	Finalise tender documents	March 2021
	Tender project	April 2021
	Tender return	June 2021
	Gateway 5 report for approval	July 2021
	Place order with contractor	September 2021
	Start work on site	October 2021
	Project completion	April 2022
	Other works dates to coordi coincide with the fire door repla park fire mitigation project due do not envisage works to impac	cement works as part of the car to committee later this year. We
14. Risk implications	Overall project risk: Low	
	Project risk is low as at early sta	ages of the gateway process.
	The overall project risk may change once detailed surveys are carried out as part of the gateway 2.	
	Please note the current total cosproject of £260,000	sted risk (post-mitigation) for the

Further information available within the Risk Register (Appendix

2).

15. Stakeholders and consultees	15.1 Department of Built Environment (DBE) – Highways, including Kieran McKay 15.2 DBE District Surveyors – Paul Monaghan and
	Gordon Roy 15.3 Terence Short – Fire Officer, CSD
	15.4 DBE parking contractor – SABA

Resource Implications

16. Total estimated	Likely cost range (excluding r	risk): £1,030	,000 - £2,000,	000
cost	Likely cost range (including r	i sk): £1,415,	000 - £2,000,0	000
	The upper cost range has been uncertainty of scope of works; to will be carried out as part of gate the next gateway stage.	he necessary	detailed surv	-
17. Funding strategy	Choose 1:	Choose 1:		
	Partial funding confirmed	Internal - City's own	Funded wholl resource	y by
	Funds/Sources of Funding	•	Cost (£)	
		City Fund	£572,000	
	CWP - R089CW001L - Londo Park Ventilation and extra works*		£152,000	
	On street parking Reserve**		£431,000	
		Total	£1,155,000	
	*This budget was approved a programme which now falls with Therefore the funding will be programme to this project.	in the wider s	cope of this pro	oject.
	**'In principle' funding was app Sub and Policy and Resources as part of the 2020/21 annual ca of RASC and P&R to draw down following approval of the relevan	Committees pital bid roun wn these fun	in December d. Further app ds will be req	2019 roval
18. Investment appraisal	Annual loss of income if the C (based on 2020/21 forecast inco		s to close is £	`772k

19. Procurement strategy/route to market	The procurement of the Consultants will be run in line with the City of London's procurement code and liaising with the City Procurement Team. The works for this project proposed at the next gateway, will at this time be run via the Internal Intermediate Works Framework as a competition to all parties.
20. Legal implications	None
21. Corporate property implications	No direct implications. This project is in support of the management plan for this incoming generating asset.
22. Traffic implications	Parking bays will need to temporarily be closed off to enable plant replacement above
23. Sustainability and energy implications	The project is to replace lighting with LED smart lighting and CO controlled ventilation which is in line with best practice. The Corporate Energy Team should be further consulted during the design and specification drafting stage.
24. IS implications	None
25. Equality Impact Assessment	An equality impact assessment will not be undertaken
26. Data Protection Impact Assessment	The risk to personal data is less than high or non- applicable and a data protection impact assessment will not be undertaken

Appendices

Appendix 1	Project Briefing
Appendix 2	Risk Register
Appendix 3	

Contact

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