



Surface Transport Infrastructure Construction (STIC) Framework

Gallows Corner Flyover Refurbishment Concept Design

Design Hazard Register

STPJ388- CST-MAC-15_XX-REG-HS-00001

C01

A3 - Authorised and Accepted







Transport for London



QUALITY MANAGEMENT

Document information				
Title	Design Hazard Register			
Structure Name:	Gallows Corner Flyover			
Structure Reference No	A127/00.00			
Date	April 2023			
Document reference	STPJ388-CST-MAC-15_		C01	
Status	A3 – Authorised and Acc	cepted		
Originator		Client		
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Authorisation				
Prepared by	[COS]		See signature	
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Checked by	[COS]		See signature	
	[PELL]	See signature		
Approved for issue	[cos]		See signature	
Revision status				
Revision	Status	Description	Date	
P01	S3	Initial Issue for Comment	25/05/2023	
C01	A3	Authorised and Accepted	18/07/2023	





Transport for London



	TRANSPORT FOR LONDON ACCEPTANCE
Accepted by	Project Manager: Mike Dowding
Signature	MikeDowding
Date	See Digital Signature
Accepted by	SHE Manager: Charles Carew
Signature	CharlesCarew
Date	See Digital Signature

Prioritisation / Ranking of Risks *

Likelihood

Definition Regarding Persons	Little or no exposure to the risk	Exposure to risk 20% of working time	Exposure to risk 40% of working time	Exposure to risk 60% of working time	Exposure to risk 80% of working time
Definition regarding Structure	Never – extremely unikely	Every 10 years	Every few years	Every year	Every month
Likelihood	NOT LIKELY	POSSIBLE	QUITE POSSIBLE	ПКЕLY	VERY LIKELY
Weight	1	2	3	4	9

Severity

Weight	Severity	Safety severity definition Affect on environm	Affect on environment
1	пом	Low risk of injury or disease	
		Fracture of digits (fingers, toes), strains and sprains, scratches, cuts, abrasions, bruising, minor burn,	Limited short term harm / minor breach
2	SLIGHT	general discomfort, minor ill health, allergies, minor	of legislation or
		temporary illness (eye strain, back strain), any injury leading to less than 3	policy / minor
		days off work,	business loss
		Fracture to hands, wrist ankles etc	Moderate harm /
		unconsciousness, major	temporary or
		burn, amputation of digits	occasional breach of
က	MODERATE	(fingers, toes), temporary loss of sight or hearing	egislation or policy /
		any injury leading to	moderate bissinese
		between 3 days and a	egolieno ossionoli
		month off work.	oss
		Major injury or death to	Immediate and / or
			ong term severe
4	HEH	Individual	harm / breach of edistation or policy /
			high business loss
		Multiple death and	mmediate and / or
			catastrophic harm/
2	VERY HIGH	widespread destruction	severe breach of
			egislation or policy /
			catastrophic
			business loss

Prioritisation / Panking of Risks *
occur as a result of the incident / accident and the Kellhood (L) of the circumstances arising which could

Risk Ranking Matrix

6 8 4 9 9		6 6 8 E 6 6 E 6 6 6 6 6 6 6 6 6 6 6 6 6					1 2	1 2	
	0 8 8 C		S	4	3	2	1	1	
9 4 6 7 -		6 8 8 4 9 9	2	4	8	2	-		L
	01 8 8 4 6 2		v	4	£	2	1	-	
2			25	20	15	10	5	2	

Guide to Rankings

Risks are intolerable and additional controls must be introduced to reduce risk further	Risks are tolerable, but only if fellonal control measures identified are not reasonably practicable to implement	Risks are broadly acceptable and risks should be monitored to ensure the level does not change
H9H	МЕDIUМ	ПОМ
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Design Hazard Register (C5)

Project No.

Project Name: STIC A127Gallows Corner Flyover Refurbishment - Asbestos

Raised By		Costain	Costain
Date Logged/ Reviewed		19/05/2023	19/05/2023
Significant Residual	Risk after Mitigation Measures (Yes/No)	Ŷ.	ON.
Design Action Status/Final	Resolution Notes (e.g. traceability of ERIs action, communication of significant residual nsk, critical design criteria, etc)	Open	Open
Significant Temporary Works Design Action Significant Date Logged/ Raised Requirements/Management Status/Final Residual Reviewed By	Arrangements and/or any Special Erection/Installation Sequences or Requirements	Contractor to provide RAMS and method statement prior to carrying out any excavation works on site,	Contractor to provide RAMS and method statement prior to carrying out any demolition works on site.
Risk Category after Mitigation Measures	Ranking	Low	Low
egory Mea	AsiA C	2	cy.
Risk Category after Mitigation Measures	Severity "S"	22	2
Ris	Likelihood "L"	-	-
Design ERIc Action Required (e.g. hazard elimination/risk mitigation	action, information to be provided to others)	Appropriate asbestos test shall be taken prior to any excavation works being conducted	Appropriate asbestos surveys shall be taken in the bridge deck, before any works begin.
Initia Risk Category	Ranking	High	High
Sisk C	Risk	15	15
itia	"S" Severity	9	S
=	Likelihood "L"	3	8
Risk Management	Owner	TfL, Costain	TfL, Costain
Hazard or Risk Issue Identified		Southend Arterial running beneath pedestrian North-West edge of carriageway	PCI states that there is potential ACM's to exist within the existing structure.
Work Element/ Location (where	appropriate)	Southend Arterial Road, traffic flow North-West	
Ref. Risk Category (and Phase Work Element/ where appropriate) Location (where	e.g. location/enuironment, construction, maintenance, alteration/demolition	Construction	Construction
Ref.		-	2
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Project No.

Project Name: STIC A127Gallows Corner Flyover Refurbishment - Demolition

, ed		D	D	Ή	
// Raised By		₽	A.		<u> </u>
Date Logged/ Reviewed		18/05/2023	19/05/2023	18/05/2023	19/05/2023
97	Risk after Mitigation Measures (Yes/No)	Š	2		Š
Design Action Status/Final	Resolution Notes Notes Ce.g. traceability of ERIs action, communication of significant residual risk, critical design critical design	Open	Open		Open
S T	Arrangements and/or any Special Erection/Installation Sequences or Requirements	Regular meetings with principal contractor. The temporary works AiP will consider provision of temporary support for columns during construction/demolition. The sequence of demolition of the deck should implemented.	The Principal Contractor will need to put in place suitable risk control measures and working methods if not already included within internal working practises and policies. The Principal Contractor should satisfy themselves of the exact locations of statutory underakers appraratus and clearly mark them on site.	Spray water during demolition to reduce airborne dust particles.	Regular meetings with principal contractor. The temporary works AIP will consider provision of temporary support for columns during construction/demolition. The sequence of demolition of the deck should implemented.
Risk Category after Mitigation Measures	Ranking	Medium	Medium	Low	Medium
rtegor on Me	Risk	10	10	4	6
isk Ca tigatio	"S" Severity	5	5	2	3
Z Z	Likelihood "L"	7	7	2	က
	action, innormation to be provided to others)	ECI and buildability to be checked. Demolition specialist to be appointed, exclustion	Statutory undertakes information is available upon request to the contractor.	Control measures to reduce dust emissions to be put in place.	ECI and buildability to be checked. Engineers to routinely check columns and bracing for any signs of movement.
Initia Risk Category	Ranking	High	High	High	High
isk Ca	Risk	50	20	16	20
itia R	"S" Severity	ro.	v	4	υ C
<u>-</u>	Likelihood "L"	4	4	4	4
Risk Management	Owner	Costain	Costain	Costain	Costain
Hazard or Risk Issue Identified	ition of ck ructure		Potential damage to the buried utilities and structures while setting up craneage.	Dust emissions.	Columns and bracings would be unstable
Work Element/ Location (where appropriate) Superstructure ii		Superstructure	Superstructure	Superstructure	Superstructure
Risk Category (and Phase where appropriate)	e g, Jocationfenvironment, construction, operation, maritenance, alteration/demolition	Operation	Operation	Operation	Operation
Ref.		-	2	3	4



Project No.

Project Name: STIC A127 Gallows Corner Refurbishment - Work Package 1 - Drainage

à		-	-
Raised By		Costain	Costain
	Reviewed	17/04/2023	17/04/2023
Significant Residual Risk	after Mitigation Measures (Yes/No)	o Z	2
Design Action Status/Final	Resolution Notes Notes (e.g. tracebility of ERIs action, communication of significant residual risk, critical design criteria, etc.)	Open	Open
Significant Temporary Works Requirements/Management	Arrangements and/or any Special Erection/Installation Sequences or Requirements	Particular care to plan the access and review all site constraints when planning works. Provide necessary temporary emergency pumping during excavation of deep trenches and suitable trench support and means of escape	Regular inspections, deaning of debris and jetting required during the works Contractor to provide RAMS and method statement prior to carrying out any excavation works on site.
Risk Category after Mitigation Measures	Ranking	Low	Low
ateg tion I	Risk	4	4
tisk C litigat	Severity "S"	4	4
_ ≥	Γike∥ihood "L"	-	-
Design ERIc Action Required (e.g. hazard elimination/risk mitigation	action, mormation to be provided to others)	Review all as built drawings. Carry out CCTV condition survey	Construction plant will not be located above or adjacent to a trench/sewer. If this is not possible, then temporary works will be provided to bridge over the trench/sewer or the applied loading will be spread, using suitable mats to an acceptable ground pressure. All open excavation to be protected by suitable means. Site personnel to be segregated away from open excavations where possible. All excavations to be backfilled as soon as reasonably pradicable.
Initial Risk Category	Ranking	Medium	Medium
lisk C	Ијек	8	12
itial R	Severity "S"	4	4
=	Likelihood "L"	7	б
Risk Management	Owner	Costain	Costain
Hazard or Risk Issue Identified		Risk of flooding	Risk of trench or sewer collepse as a result of overloading from construction plant.
23	appropriate)		
₹	e, gi Ocalonenvironneni, construction, operation, maintenance, alteration/demolition	Construction	Construction
Ref.		-	8



Project No.

Project Name: STIC A127 Gallows Corner Refurbishment - Work Package 1 - Drainage

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Raised By		Costain	Costain	PF	Ħ.
Date Logged/	Reviewed	17/04/2023	17/04/2023	18/05/2023	18/05/2023
Significant Residual Risk	after Mitigation Measures (Yes/No)			°N	°2
Design Action Status/Final	Resolution Notes (e.g. tracebility of ERIs action, communication of significant residual risk, critical design criteria, etc.)	(e.g. traceability communication, communication of significant residual risk, critical design criteria, etc.)		Open	Open
Significant Temporary Works Requirements/Management	Arrangements and/or any Special Erection/Installation Sequences or Requirements	Erection/Installation Sequences or Requirements Requirements Inspection and maintenance regime to be provided. Use dial before you dig facility. Ensure local utility engineer has been confacted and is present during high risk excavations. Hand dug thing high recorded and uncharted utilities.		Particular care to plan the access and reviewal list econstraints when planning works. Provide necessary temporary emergency pumping during excavation of deep frenches and suitable trench support and means of escape	RAMS to be provided to Principle Contractor, and confined space training provided before anyone enters restricted working space below structure.
Risk Category after Mitigation Measures	Ranking	Low	Medium	Low	Low
ateg ion N	Risk	9	80	2	ь
tisk C litigat	Severity "S"	2	4	2	ь
E ≥	Likelihood "L"	3	2	-	-
Design ERIc Action Required (e.g. hazard elimination/risk mitigation	action, innormation to be provided to	No historical flooding has been reported and the area is within the low risk flood zone 1. Provide copies of all recent (within 6 months) utility record plans to site. Provide all utility contact details for local engineer and emergency contact details. A safe system of work will be implemented that follows the guidance in HSE document HSE document		Review all as built drawings. Carry out CCTV condition survey. Provide RAMS to Principle Contractor.	Design to incorporate removable deck panels to be provided, to facilitate access for maintenance activities. Stakeholder to be consulted during design phases.
nitial Risk Category	Ranking	Low	등 크	II Fig	Medium
isk C	Ківк	9	16	15	o
Itial R	Severity "S"	2	4	· c	е е
드	Likelihood "L"	3	4	ю	ю
Risk Management	Owner	TfL, Costain	TfL, Costain	Costain	TF
Hazard or Risk Issue Identified		The capacity and water levels in the existing downstream pipework and culverts, may not have sufficient capacity for extreme rainfall events and may flood onto the highway or into adjacent properties. Condition and efficiency of outfall pipework unknown	Utility strikes during excavation works	Structures below ground /culverts.	Access to water main for maintenance, resticted working room below structure for maintenance activities.
2 2	арргорліаtе)				
Risk Category (and Phase where appropriate)	e, g. Jocatonenivironneni, construction, operation, maintenance, alteration/demolition	Operation	Construction	Construction	Operation
Ref.		3	4	9	ø

Project No.

Project Name: STIC A127Gallows Corner Flyover Refurbishment - Excavation Works

Raised By		Costain	Costain	Costain
Date Logged/ Reviewed		26/04/2023	26/04/2023	25/05/2023
97	Nisk atter Mitgation Measures (Yes/No)	9 Ž	Š	Ž
Design Action Status/Final	Notes Notes (e.g. tracability of ERIs action, communication of significant residual risk, critical design criteria, etc)	Open	Open	Open
<u>κ</u> π	Arrangements and/or any Special Erection/Installation Sequences or Requirements	The Principal Contractor will need to put in place suitable risk control measures and working methods, if not already included within internal working practises and policies.	Trial pits survey report, WAC criteria and Drawings to be given to the site team,	The Principal Contractor will need to put in place suitable risk control measures and working methods, if not already included within internal working practises and policies.
Risk Category after Mitigation Measures	Ranking	Low	Low	Low
tegory on Mea	Risk	4	4	ø
isk Ca Itigatic	"S" Severity	4	4	ю
∝ <u>≅</u>	Likelihood "L"	-	-	7
Design ERIc Action Required (e.g. hazard elimination/risk mitgation	action, montation to be provided to others)	lane dosure with reduced traffic speed, or full Traffic management to be used during excavation. All excavation shall be backfilled prior to opening road to traffic, and prior to implementation of narrow lanes TM.	Trail pits to be carried out includes Waste, and correct testing procedures for ground gas. Acceptance Criteria Test. Materials to be taken off site to a licensed tip. If testing identifies the presence of ground gas, suitable gas detection equipment, venitiation and PPE will be provided.	Control measures to be put in place to reduce risk of groundwater entering excavation works. Dewatering equipment may be required to remove groundwater when works are taking place.
Initial Risk Category	Ranking	Medium	Medium	Medium
isk C	Risk	12	ω	12
nitial F	Severity "S"	4	4	4
ш	Likelihood "L"	3	2	ю
Risk Management	Owner	TfL, Costain	TfL, Costain	TfL, Costain
Hazard or Risk Issue Identified		Risk to traffic and site personnel falling into excavation.	Contamination from the ground during excavation, potential risk to human health. There is also a risk of exposure to potential ground gas.	Possible risk from groundwater when excavation works are taking place.
Work Element/	Location (where appropriate)			
ž	e.g. locatorivaniment, construction, operation, maintenance, alteration/demolition	Construction	Construction	Construction
Ref.			2	e



Costain	Costain	Costain	
26/04/2023	25/05/2023	26/04/2023	
Š	SV.	٤	
Open	Open	Open	
The Principal Contractor will need to put in place suitable risk control measures and working methods if not already included within internal working practises and policies. The Principal Contractor should satisfy themselves of the exact locations of statutory underakers appraratus and clearly mark them on site. There will be no mechanical digging - all excavations to be hand dug to determine the location of stats.	The Principal Contractor will need to put in place suitable risk control measures and working methods if not already included within internal working practises and policies. Condition of Pile caps to be assessed when exposed by specialist.	The Principal Contractor will need to put in place suitable risk control measures and working methods if included within internal working practises and policies. The Principal Contractor should satisfy themselves of the exact locations of statutory underakers appraratus and clearly mark them on site. There will be no mechanical digging - all excavations to be hand dug to determine the location of stats.	
Low	Low	Low	
ω	9	4	
ro.	ဗ	4	
k is + + + + + + + + + + + + + + + + + +	2 7 g	s de 47 is	
Statutory undertakes information is available upon request to the contractor. A safe system of work will be implemented that follows the guidance in HSE document HSG47	Minimal excavation required around existing stuctures, mainly for new curb allignment. Pile caps to be monitored when exposed and throughout works	Statutory undertakes information is available upon request to the contractor. Review all as built drawings, Carry out CCTV condition survey, Provide RAMS to Principle Contractor. Control measures to be put in place to reduce risk of groundwater entering excavation works. Dewatering excavation works. Dewatering equipment may be required to remove groundwater when works are taking place.	
High	Low	High	
50	9	9	
ıo .	e	4	
4	2	4	
Tfl., Costain	TfL, Costain	Tf., Costain	
Potential for live services to harm site operatives if a service is struck. Loss of service to 3rd parties.	Potential for excavation works to undermine the existing structure.	Construction near a five watercourse resulting in a possible strike or weakening of the watercourse.	
Construction	Construction	Construction	
4	'n	ω	



Project No.

Design Hazard Register (C5)

Project Name: STIC A127 Gallows Corner Flyover Refurbishment - Work Package 1 - Foundations and Pavement

ed By		Costain	Costain	Costain	
d/ Rais		├			
Date Logged/ Raised By Reviewed		26/04/2023	26/04/2023	26/04/2023	
Significant Residual Risk	affer Mitigation Measures (Yes/No)	oN.	o _N	ž	
Design Action Status/Final	Resolution Notes after Mitigation (e.g. traceability of Measures ERIs action, communication of significant residual risk, critical design critical design critical design	Open	Open	Open	
Significant Temporary Works Requirements/Management Arrangements and/or	any Special Erection/Installation Sequences or Requirements	Suitable barriers to be installed to prevent access and conflict between I've traffic and workers.	Trial pit survey and WAC test reports along with any accompanying drawings to be provided to the site team and designer.	Contractor to provide RAMS and method statement prior to carrying out any excavation works on site.	
Risk Category after Mitigation Measures	Ranking	Low	Low	Medium	
Categ ation I	- Risk	ıs	4	60	
Risk	Severity "S" Likelihood "L"	-5	4	2 4	
Design ERIc Action Required (e.g. hazard elimination/risk mitigation	action, information to be provided to others)	Provision of suitable barriers to prevent access and conflict leading to interaction,	Trial pits to be excavated at various locations throughout the site and testing carried out including Waste Acceptance Criteria Test (WAC Test).	All open excavation to be protected by suitable means. Site personnel to be segregated away from open excavations where possible. All excavations to be backfilled as soon as reasonably practicable.	
Initial Risk Category	Ranking	High	Medium	Medium	
Risk C	Risk	15	12	12	
nitia	"S" Severity	9	4	4	
ш	Likelihood "L"	ь	3	e	
Risk Management Owner		TfL, Costain	TfL, Costain	TfL, Costain	
Hazard or Risk Issue Identified		Working adjacent to live traffic	Groundwater	Excavation for the works, resulting in falls from height.	
Work Element/ Location (where	appropriate)				
Ref. Risk Category (and Phase where appropriate)	e.g. licoulorehvironment, construction, capeation, maintenance, alteration/demolilion	Construction	Construction	Construction	
Ref.		-	2	ε	
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Project Name: STIC A127 Gallows Corner Flyover Refurbishment - Work Package 1 - Foundations and Pavement

Project No.

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Raised By		Costain	Costain	Costain		q.
Date Logged/ Raised By Reviewed		26/04/2023	26/04/2023	25/05/2023		18/05/2023
	after Mitigation Measures (Yes/No)	Ŷ.	N	g		8
_	deoution Notes a Recourtion Notes a Recourtion Notes a Recordion. ERIs action. Communication of sequent sequent sequent sequent insk critical design criteria, etc)	Open	Open	Open		ue d O
┖	any Special Erection/Installation Sequences or Re Requirements (6	Foundation redesign.	Contractor to provide RAMS and method statement prior to carrying out any excavation works on site.	The Principal Contractor will need to put in place suitable risk control measures and working methods if not already included within internal working practises and policies. The Principal Contractor should satisfy themselves of the exact locations of statutory underakers appraratus and dearly mark them on site. There will be no mechanical disging—all excavations	to be hand dug to determine the location of stats.	Designer to recommend suitable ground investigations and assess the current capacity. Temporary works may be required.
Risk Category after Mitigation Measures	Ranking	Low	Low	Medium		Low a
ateg ion M	Risk	3	9	10		4
isk C itigat	Severity "S"	3	5	ro.		4
α <u>≅</u>	Likelihood "L"	-	-	8		-
Design ERIc Action Required (e.g. hazard elimination/risk mitigation	action, innormation to be provided to	Foundation re-design at short notice. Trial holes to be carried out, soll to be tested and results provided to designer.	Appropriate asbestos test shall be taken prior to any excavation works being conducted.	Statutory undertakes information is available upon request to the contractor to show location of existing services. A safe system of work will be implemented that follows the guidance in HSE document	HSG47.	Ground surveys and concrete testing will be carried out. Concrete cores and test for compressive strength and petrographic analysis, exploratory investigation will be carried out.
Initial Risk Category	Ranking	High	Medium	нgн		Medium
isko	Risk	20	10	20		5
tia R	"S" Severity	2	2	2		4
-	Likelihood "L"	4	2	4		ю
Risk Management Owner		TfL, Costain	T/L, Costain	Tfl., Costain		Pell Frischmann
Hazard or Risk Issue Identified		Unexpected poor ground conditions	Presence of Asbestos in the made ground	Possib ē ty of a services strike taking place.		Unknown condition or capacity of the foundation, pile caps, and ground beam can lead to instability of the structure. Condition of the hidden elements and precast panels and columns supporting the ramps around the water main. Uncertainty of the fill behind the abutment.
د ح	appropriate)					-
Risk Category (and Phase where appropriate)	e.g. licoalorenivionment, costruction, operation, costruction, describio, alteration/demolition	Construction		Design		
Ref.		4	2	ω		۲

Project No.

Project Name: STIC A127Gallows Corner Flyover Refurbishment - Health and Safety

, ed				747		10		
Raised By		4		4		18/05/2023 PF		4
Date Logged/	Reviewed	18/05/2023		18/05/2023	18/05/202:			18/05/2023
Significant Residual	Kisk after Mitigation Measures (Yes/No)	ž		Ŷ.		ž		Š
Design Action Status/Final	Notes Notes Notes (e.g. traceability of ERIs action, communication of significant residual risk, critical design criteria, etc)	Open		Open		Open		Open
t t	Arrangements and/or any Special Erection/Installation Sequences or Requirements	Necessary equipment for emergency situations will be provided.	All the staff must be trained and use required PPE.	Increase the number of staff working on the project and divide	the shifts into reasonable hours.	A suitable solid enclosure to be designed by temporary works engineer.	Suitable PPE to be used.	Tanking during removal paint and appropriate PPE.
Risk Category after Mitigation Measures	Ranking	Low		Low		Medium		Medium
tegor on Me	Risk	9		9		ω		œ
sk Ca tigatio	"S" Severity	2		9		4		4
Mik	Γiκe∥iμοοq "Γ"	~		•		2		.01
Design ERIc Action Required (e.g. hazard elimination/insk mitgation artion information to be provided to	acion, inclination to be provided to	Medium Assembly point to be established.		Shift hours during weekend and		Solid enclosures will be positioned around the hydro-demolition works.		(CLAN) Regulation 2002 advises following the assess, control and review model to minimise potential exposure to lead. Tanking during removal paint and appropriate PPE.
Initial Risk Category	Ranking	Medium		Medium		High		High
isk Ca	Risk	10		6		16		16
tia Ri	"S" Severity	5		3		4		4
ļu	Γiκe¶iμοοq "Γ"	7		3		4		4
Risk Management	Owner	Costain		Costain		Costain		Costain
Hazard or Risk Issue Identified		Fire and other emergencies (Entrapment, explosions, flooding, and structural	collapse).	Potential risk of human accidents due to fatigue of staff.	Redustion in quality.	Injury from hydro demolition works causing dust and flying debris due to partial demolition of abutment pile	caps and removal of mass concrete fill to ramps.	Potential presence of lead paint.
Work Element Location (where appropriate)								
Risk Category (and Phase where appropriate) e.g. location/environment, construction, operation, maintenance, alteration/demolition		Construction		Construction		Construction		Construction
Ref.		-		2		е е		4
						L		

Project No.

Project Name: STIC A127Gallows Corner Flyover Refurbishment - Lighting and Signage

Raised By			Costain			Costain	ä	:
Date Logged/ Reviewed			24/05/2023			25/05/2023	18/05/2023	
Significant Residual	Risk after Mitigation Measures (Yes/No)		9V			Š	Ž	2
Design Action Status/Final	Resolution Notes Notes (e.g. traceability of ERIs action, communication of significant residual risk, critical design criteria, etc)		Open			Open	C	
Significant Temporary Works Requirements/Management	Arrangements and/or any Special Erection/Installation Sequences or Requirements	The Principal Contractor will need to put in place suitable risk control measures and working methods if not already included within internal working practises and policies.	The Principal Contractor should satisfy themselves of the exact locations of statutory underakers appraratus and clearly mark them on site.	There will be no mechanical digging - all excavations to be hand dug to determine the location of stats.	Provision of site plan and location of lighting.	The Principal Contractor will need to put in place suitable risk control measures and working methods if not already included within internal working practises and policies.	Provision of site plan and location of signs and lighting.	Consideration of tress adjacent to the roundabout,
Risk Category after Mitigation Measures	Ranking		Medium			Low	30	
egory n Mea	Risk		œ			4	ď	,
Risk Category after Mitigation Measures	Severity "S"		4			4	~)
Ris	Likelihood "L"		7			-	^	
Design ERIc Action Required (e.g. hazard elimination/risk mitigation	action, information to be provided to others)	Statutory undertakes information is	available upon request to the contractor. A safe system of work will be implemented that follows the guidance in HSE document HSG47.			Temporary lighting will be provided to compensate for the removal of existing lighting columns.	The locations of signs and lightings needs to be considered before	setting up the craneage and dismantling the deck.
Initial Risk Category	Ranking		Medium			Medium	Medium	
sisk C	Risk		2		12		5	!
itia	"S" (Severity		4		4		4	
<u> </u>	Γiκe∥iμοοq "Γ"		ო			е .	~	,
Risk Management	Owner		TfL, Costain			TfL, Costain	Costain	
Hazard or Risk Issue Identified		Lighting cable strike			The Existing lighting may need to be removed	temporally as part of the works, resulting in low works, resulting in low lighting level increasing the risk of trips, falls and near miss occurences taking place.	Construction works Interfacing with lighting columns, traffic signs, and detector loops.	Interface with services in excavation.
۲ ۲	Work Element/ Location (where appropriate)				-			
Risk Category (and Phase where appropriate) e.g. location/environment, construction, operation, maintenance, alteration/demolition		Highway				Highway	Hirhway	(1)
Ref.			-			74		,
\blacksquare								

Project No.

Project Name: STIC A127Gallows Corner Flyover Refurbishment - Procurement

Raised By		4	F.	F.
		23	83	g
Date Logged/ Reviewed		18/05/2023	18/05/2023	18/05/2023
Significant Residual	Kisk after Mitigation Measures (Yes/No)	Ž	ž	Yes
Design Action Status/Final	Nesolution Nesolution (e.g. traceability of ERIs action, communication of significant residual risk, critical design critical design	Open	Open	Open
Significant Temporary Works Requirements/Management	Arrangements and/or any Special Erection/Installation Sequences or Requirements	Reduction in the period of detailed design stage. Suppliers' performance shall be monitored.	Engage with suppliers and book the necessary materials such as rolling beams before the construction phase. Setting up regular meetings with clent to discuss the price of each material during construction phase.	Agreement with asset owners.
Risk Category after Mitigation Measures	Ranking	Low	Medium	Low
Risk Category after Mitigation Measures	Risk	ø	12	9
sk Cat igatio	"S" Severity	6	4	е
Ris	Likelihood "L"	2	ဗ	2
Design ERIc Action Required (e.g. hazard elimination/risk mitigation		Detailed Design to progress to facilitate ordering the necessary construction materials and bespoke design elements before the construction phase.	Estimation of cost due to regular annual inflation to get doser price of materials and pre-cast deck units.	Control measures will be agreed to maintain acceptable levels, to avoid any unnecessary noise nuisance to residents. Day and night-time noise surveys will be required to set base line noise levels.
Initial Risk Category	Ranking	Medium	High	Medium
isk C	Risk	12	16	12
nitia	"S" Severity	က	4	4
	Likelihood "L"	4	4	ю
Risk Management	owner over	Costain, TfL	Costain	Costain, TfL
		<u>ა</u>	ŏ	Cost
Hazard or Risk Issue Identified		Delay to construction start date, due to supplier delays and change of client scope. Potential delay to the completion of the detailed design and to start of the construction phase.		High noise and vibration during the construction to stakeholders and residents. Cost Destruction to local businesses.
Work Element/ Hazard or Risk Issue Location (where Identified	appropriate)		7	
Se Work Element Hazard or Risk Issue Location (where Identified				

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Design Hazard Register (C5)

Project No.

oject Name: STIC A127 Gallows Corner Refurbishment - Work Package 1 - Safety Barriers and Fence

Risk Category (and Phase Work Hazard or Risk issue Working from height/ Construction Construction Construction Working from height/ Case of control of case special Construction Constain	Raised By		Costain	Costain	PF	PF	PF
The contribution of contribution of the contribution of contri	Date Logged/	Reviewed	26/04/2023	26/04/2023	18/05/2023	18/05/2023	18/05/2023
Working in deep promised. Operational Deal Chapter (Constitution Deal Chapter) Operational Deal Chap	Significant Residual	Kisk after Mitigation Measures (Yes/No)	8 N	S.	ĝ	Š	N _S
Working in deep promised. Operational Deal Chapter (Constitution Deal Chapter) Operational Deal Chap	Design Action Status/Final	Resolution Notes Notes Of ERIs action, of ERIs action, of Significant residual risk, critical design criteria, etc)	Open	Open	Open	Open	Open
Public Construction	\vdash		The Principal Contractor will need to put in place suitable risk control measures and working methods if not already included within internal working practises and policies.	Site team to provide suitable seggregation plans/ layout to help keep the public safe from adjacent working operations.	Speed limitations and restrain system. Warning systems to be implemented	All personnel should be appropriately trained, undertake work according to an approved safe system of work with suitable PPE.	Suitable temporary vehicle protection to be installed during construction stage.
Public Construction	y after asures	Ranking	Low	Low	Low	Medium	Low
Ranking Public safety from adjacent Desaign Public safety from the public safety from adjacent Desaign Public safety from the public safety from adjacent Desaign Public safety from the public safety from adjacent Desaign Public safety from the public safety from adjacent Desaign Public safety from the public safety from adjacent Desaign Public safety from the public safety from adjacent Desaign Desaign Public safety from the public safety from adjacent Desaign Des	tegori		3	က	ო		4
Ranking Public safety from adjacent Desaign Public safety from the public safety from adjacent Desaign Public safety from the public safety from adjacent Desaign Public safety from the public safety from adjacent Desaign Public safety from the public safety from adjacent Desaign Public safety from the public safety from adjacent Desaign Public safety from the public safety from adjacent Desaign Desaign Public safety from the public safety from adjacent Desaign Des	sk Ca igatio	"S" Severity	3	e	4	υ	4
Risk Category (and Phase Work Category (and Phase) Location Operational Operati	M. R.	Γike∥iμοοq "Γ"	1	-	-	2	1
Risk Category (and Phase where where where allowing medical periods of the public selection alteration of the public selection and appropriate)	Design ERIc Action Required (e.g. hazard elimination/risk mitigation action information to be provided to	actori, miormatori to pe provided to others)	Full segregation of the works from the public required. Temporary diverted footways with temporary fencing to be provided to redirect pedestrians safety around the site. Noise monitoring is to be carried out throughout the site.	Majority of work is away from public interface however there will be some minor potential conflicts	Suitable vehicles restrain systems and speed limitations are to be installed where appropriate. Warning devices and procedures should be considered in front of the structure during execution to prevent vehicular impact.	Bridge parapets should be installed with edge protection in place. The bearings should be installed on the transom before lifting. Using prefabricated design elements.	Compliant vehicle restraint systems to be provided to protect from impact and trestles to be strengthened.
Risk Category (and Phase Work Moreing Identified Management Construction, operational Appropriate) Operational Op	itegory	Ranking	Medium	Medium	Medium	High	High
Risk Category (and Phase Work Moreing Identified Management Construction, operational Appropriate) Operational Op	isk Ca	Risk	6	12	2	20	16
Risk Category (and Phase Work Moreing Identified Management Construction, operational Appropriate) Operational Op	itial R	"S" Severity	8	4	4	rs.	4
Risk Category (and Phase Work Hazard or Risk Issue	٥	Γike l ihood "L"	3	r	ю	4	
Risk Category (and Phase where appropriate) e.g. location/environment, cocation construction, operational alteration/demolition Operational Construction Construction Construction Construction	Risk Management	Owner	TfL, Costain	TfL, Costain	Costain	Costain	Pell Frischmann
Risk Category (and Phase where appropriate) e.g. location/environment, cocation construction, operational alteration/demolition Operational Construction Construction Construction Construction	Hazard or Risk Issue Identified		Working in close proximity to the public, public safety (injury / noise etc)	Public safety from adjacent working operations and noise	Maintenance and construction work adjacent to live carriageways. Vehicle strikes maintenance and construction personnel. Public could be harmed during execution.	Working from height/Falling from height/ Loss of control and points of contact	
	Work Element	Location (where appropriate)					
- 2 E 4 0	Risk Category (and Phase where appropriate)	e.g., locatoryan/noment, construction, operation, maintenance, alteration/demolition	Operational	Operational	Construction	Construction	Design
	Ref.		-	8	ю	4	2

Project No.

Project Name: STIC A127Gallows Corner Flyover Refurbishment - Site Security

Raised By		Costain	Costain	Costain
Date Logged/	Reviewed	26/04/2023	24/05/2023	26/04/2023
l"	Risk after Mitigation Measures (Yes/No)	Š	Š	Š
Design Action Status/Final	Resolution Notes Octavity Octa	Open	Open	Open
s +	Arrangements and/or any Special Erection/Installation Sequences or Requirements	The Principal Contractor will need to put in place suitable risk control measures and working methods if not alfready included within internal working practises and policies.	The Principal Contractor will need to put in place suitable risk control measures and working methods if not afready included within internal working practises and policies.	The Principal Contractor will need to put in place suitable risk control measures and working methods if not afready included within internal working practises and policies.
Risk Category after Mitigation Measures	Ranking	Low	Medium	Low
ategor on Me	Risk	4	10	4
isk Ca itigati	"S" Severity	.4	2	4
1550	Гіке l ihood "Г"	~	2	-
Design ERIc Action Required (e.g. hazard elimination/risk mitigation	action, information to be provided to others)	Work with the Police to ensure the area is left safe.	Prohibited areas must be clearly demarcated using appropriate signage and fencing, to keep people out of the site who don't have authorised access.	If appropriate the contractor should contact the local Police and notify the Project Manager.
Initial Risk Category	Ranking	Medium	High	Medium
isk C	Risk	∞	15	∞
itia F	Severity "S"	4	c)	4
	Γikeliμοος "Γ"	2	က	7
Risk Management	Owner	TfL, Costain	TfL, Costain	TfL, Costain
Hazard or Risk Issue Identified		Police suspension of work, due to an unforeseen incident. Potential risk to personnel, public or works.	Risk of unauthorised access to the site.	Anti social behaviour interfering or stopping works taking place, Potential risk to personnel, public or works.
Work Element/	Location (where appropriate)	Ü	<i>A</i>	
Risk Category (and Phase where appropriate) e.g. location/environment, construction, operation, maintenance, alteration/demolition		Location environment	Location environment	Location environment
Ref.		-	2	3
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Project No.

Project Name: STIC A127Gallows Corner Flyover Refurbishment - Superstructure

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/ Raise By		Ą	Ą	Ą	Ą
Date Logged Reviewed		25/05/2023	25/05/2023	25/05/2023	18/05/2023
Significant Residual	Risk after Mitigation Measures (Yes/No)	Š	Š	Š	Š
Design Action Status/Final	Resolution Notes Notes Octavity Of ERIs action, communication of significant residual risk, critical design criteria, etc)	Open	Open	Open	Open
Significant Temporary Works Design Action Significant Date Logged/ Raised Requirements/Management Status/Final Residual Reviewed By	Arrangements and/or any Special Erection/Installation Sequences or Requirements	No construction traffic to be used across precast panels until they are grouted and grout has achieved sufficient strength.	Lateral restraint to be provided during lifting and placing of steel beams and remain in place until the cross beams, precast concrete and in-situ concrete stitching works are completed	Contractor to inform designer of routeing of vehicles, stacking of material, mounting equipment etc. and construction sequencing,	Reduced speed Imit to be maintained (max 30mph).
Risk Category after Mitigation Measures	Ranking	Low	Medium	Low	Low
tegor on Me	Risk	4	œ	က	4
isk Ca tigatic	"S" Severity	2	4	9	2
2 2	Likelihood "L"	2	2	-	2
Design ERIc Action Required (e.g. hazard elimination/risk mitigation	action, information to be provided to others)	Compiled and designer to inform strength requirement for grouted connections.	Temporary works design to inform requirements for lateral restraint	Typically 3kN/m² load restriction for equipment and 10kN/m² live load restriction to be implemented	Due to narrow lanes on the flyover there is a risk of vehicular collision. Vehicle tracking has shown there to be limited available space if two HGVs were to pass simulfaneously.
Initial Risk Category	Ranking	Medium	High	Medium	Low
isk C	Risk	12	16	6	9
itia R	"S" Severity "S"	4	4	9	2
드	Гіке l ірооq "Г"	က	4	က	ဧ
Risk Management	Owner	Costain	Costain	Costain	TfL
Hazard or Risk Issue Identified			Instability of steel beams, resulting in full or partial collapse during installation,	Overloading the bridge when in its tempoary instalation condition.	Lane width does not meet current design standards, resulting in colisions
Work Element/ Location (where appropriate)					
Mork Element Where appropriate) e.g.focation (where e.g.focation/environment, construction, operation, maintenance, alteration/demolition		Construction	Construction	Construction	Operation
Risk Cate where	e.g. loca constru ma altera			23/50/4	
Ref Risk Cate	e.g. loca constru altera	-	2	8	4

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Project No.

Project Name: STIC A127Gallows Corner Flyover Refurbishment - Traffic Management

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Raised By		Costain	Costain	Costain	Costain
Date Logged/	Reviewed	26/04/2023	26/04/2023	26/04/2023	26/04/2023
Significant Residua	Risk after Mitigation Measures (Yes/No)	o <mark>N</mark>	Š.	N _O	8
Design Action Status/Final	Resolution Notes Notes of ERIs action, of ERIs action, of significant residual risk, critical design criteria, etc)	Open	Open	Open	Open
t t	Arrangements and/or any Special Erection/Installation Sequences or Requirements	The Principal Contractor will need to put in place suitable risk control measures and working methods if not already included within internal working practises and policies.	The Principal Contractor will need to put in place suitable risk control measures and working methods if not already included within internal working practises and policies.	The Principal Contractor will need to put in place suitable risk control measures and working methods if not already included within internal working practises and policies.	The Principal Contractor will need to put in place suitable risk control measures and working methods if not already included within internal working practises and policies.
after sures	Ranking	Low	Low	Low	Medium
gory	Risk	2	ro.	2	0
Risk Category after Mitigation Measures	"S" Severity "S"	29	10	5	το -
Ris) Mitig	Likelihood "L"	-	-	-	N
\vdash	Janes Program I				
Design ER জ Action Required (e.g. hazard elimination/risk mitigation action,	information to be provided to others)	Temporary road closures/ TM diversion routes will be implemented to minimise traffic interface with the works area.	TM designed by speckalist TM designer to current standards.	TM designed by specialist TM designer to current standards.	Temporary road closures/ TM diversion routes will be implemented to minimise traffic interface with the works area. Traffic management proposals complying with TSM Chapter 8 will be provided to ensure safety clearances are maintained during minor construction activities. Impact protection vehicles to be utilised as required, All traffic management signs and cones to be inspected for damage and maintained accordingly. Proposed access/ egress points to be identified on traffic management plans to take cognisance of adjacent diverted traffic.
Initial Right Gatogory	Ranking	High	High	High	H.
alk Gal	Risk	15	20	15	20
a R	"S" Severity	5	22	5	ω
luit Lit	Likelihood "L"	9	4	9	4
Risk Management	Омпег	Costain	Costain	Costain	Costain
Hazard or Risk Issue Identified		Setting up / removal / maintainance of traffic management	Working adjacent to live traffic, vehicle / pedestrian collision	Coming into contact with traffic that may ignore traffic management	Operatives safety from adjacent traffic during construction and traffic management
Work Element/	Location (where appropriate)				
Risk Category (and Phase where appropriate)	e.g. locationehvironment, construction, operation, maintenance, alteration/demolition	Operation	Operation	Operation	Risk of errant vehic l e impact
Ref.		-	2	е	4



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PF	PF			
18/05/2023	18/05/2023			
Ŷ.	Š			
Open	Open			
Parapet containment capacity shall be improved, and consideration should be given to installing speed cameras. Ensuring appropriate traffic management is applied during construction operations.	Where un-avoidable, partial or full dosures should be timed to minimise the closure of the route. Provision of diversion routes.			
Low	Low			
2	ø			
ıs	ю			
-	7			
Carriageway and superstructure will be closed with a proper traffic management duration of the 1 construction.	The rounabout should remain open.			
High	High			
15	15			
5	ю			
8	co.			
Costain	Costain			
Speeding issues and working near live traffic. Risk of accident with site attendess and construction workers.	Risk of disruption in connection between five roads including bus routes.			
	Roundabout below the structure.			
Operation	Traffic Management			
5	9			

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COSTA

Design Hazard Register (C5)

Project No.

Project Name: STIC A127Gallows Corner Flyover Refurbishment - Utilities and Services

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Handles and services are serviced by the service of Risk State and services and services are serviced by the services and services and services are serviced by the services and services and services are serviced by the services and services and services and services are serviced by the services and services and services are serviced by the		Reviewed	18/05/2023		18/05/2023		18/05/2023	
Which appropriate) Work Hazard or Risk leave Read or Risk leave Read or Risk leave Read Read Read Read Read Read Read Rea	Significant Residual	Risk after Mitigation Measures (Yes/No)	<u>8</u>	1.00	ž		2	
Which appropriate) Work Hazard or Risk leave Read or Risk leave Read or Risk leave Read Read Read Read Read Read Read Rea	Design Action Status/Final	Resolution Notes (e.g. traceability of ERIs action, communication of significant residual risk, critical design criteria, etc)	Open		C Deed		Open	
Raik Category (Large Action Reflex Actions (Reflex Actions Reflex Actions Reflex Actions Reflex Actions Reflex Actions Reflex Actions (Reflex Actions Reflex Actions Reflex Actions Reflex Actions Reflex Actions Reflex Actions Reflex Actions (Reflex Actions Reflex Actions Ref		Arrangements and/or any Special Erection/Installation Sequences or Requirements	Consideration of planning and locations of high voltage cables adjacent to the structure.	Cranes must not be set-up in the vicinity of the watermain. Designers to allocate the right place or workstations.	Consideration to be given to maintenance works to the water main being carried out before or after the construction phase.	The Principal Contractor will need to put in place suitable risk control measures and working methods if not already included within internal working practises and policies.	The Principal Contractor should satisfy themselves of the exact locations of statutory undertakers apparatus and clearly mark them on site.	There will be no mechanical digging - all excavations to be hand dug to determine the location of stats.
Raik Category (Large Action Reflex Actions (Reflex Actions Reflex Actions Reflex Actions Reflex Actions Reflex Actions Reflex Actions (Reflex Actions Reflex Actions Reflex Actions Reflex Actions Reflex Actions Reflex Actions Reflex Actions (Reflex Actions Reflex Actions Ref	after sures	Ranking	Low		медиш		Low	
Risk of explosion caused by Costain Work Hazard or Risk Issue Risk of explosion caused by Utilities and services Work Work Hazard or Risk Issue Risk of explosion caused by Costain Utilities and services Work Work Hazard or Risk Issue Ranking General Costain Owner An already despression or setting Work Work Hazard or Risk Issue Ranking General Costain Owner Ranking General Costain Utilities and services Work Utilities and services Work Utilities and services Work Utilities and services Work Utilities and services Ranking Utilities and services Work W	egory n Mea		ဖ				ø	
Risk of explosion caused by Costain Work Hazard or Risk Issue Risk of explosion caused by Utilities and services Work Work Hazard or Risk Issue Risk of explosion caused by Costain Utilities and services Work Work Hazard or Risk Issue Ranking General Costain Owner An already despression or setting Work Work Hazard or Risk Issue Ranking General Costain Owner Ranking General Costain Utilities and services Work Utilities and services Work Utilities and services Work Utilities and services Work Utilities and services Ranking Utilities and services Work W	ik Cat gatio	"S" Severity	ю				ю	
Hazard or Risk Basue Risk Amagement Condition of water main services Work Hazard or Risk Issue Risk Amagement Condition of water appropriate) Where appropriate and services where construction or setting with cables with cables with cables and services and services where construction or setting with cables water main to present of underground high video existence of underground high video existence of high pressure water main below the structure or setting with construction or setting with video existence of high pressure and services water main to water main is constituted by the setting with the gas mains. Condition of water main is constain 3 5 15 Hight	Ris	Likelihood "L"	2	₹6	N		8	
Work Atseard or Risk Basue Risk Basue Annagement Element Location e.g. location/comment. (where alternational constitution or setting up the required facilities due to presente of underground high voltage electric optics (Native and services and services and services and services (Condition of water main is unknown.) (Risk of explosion caused by damaging the gas mains.) (Costain 3 5 15 15 15 15 15 15 15 15 15 15 15 15 1			Information about the cables location and utilities to be provided. A safe system of work will be implemented that follows the guidance in HSE document HSG47	All affected services to be indicated on design drawings. The condition of the watermain is to	pe assessed once it has been exposed, Local protection of the watermain to be provided as required	Statutory undertakes information is available upon request to the contractor for the location of the	gas main A safe system of work will be implemented that follows the guidance in HSE document HSG47.	
Work Atseard or Risk Basue Risk Basue Annagement Element Location e.g. location/comment. (where alternational constitution or setting up the required facilities due to presente of underground high voltage electric optics (Native and services and services and services and services (Condition of water main is unknown.) (Risk of explosion caused by damaging the gas mains.) (Costain 3 5 15 15 15 15 15 15 15 15 15 15 15 15 1	tegory	Ranking	Medium		5		High	
Risk Category (and Phase Work Hazard or Risk Issue Hanagement of Continuous Continuous) Continuous Authorism (Where Management Continuous) Alteration/demoiltion Alteration/demoiltion While construction or setting to presence of underground high voltage electric optics high	sk Ca	Risk	6	-	0		15	
Risk Category (and Phase Work Hazard or Risk Issue Hanagement of Continuous Continuous) Continuous Authorism (Where Management Continuous) Alteration/demoiltion Alteration/demoiltion While construction or setting to presence of underground high voltage electric optics high	tia Ri	Severity "S"	3	•	ი		S	
Risk of interfacing with cables where main flaentified and services alteration/demoilion alteration/demoilion benvices by Utilities and services Risk of interfacing with cables while construction or setting up the required facilities due to presence of underground high voltage electric optics after the presence of underground high voltage electric optics after the configuration of water main below the structure. Condition of water main is unknown. Risk of explosion caused by damaging the gas mains.	iu	Likelihood "L"	9	8	ກ		ဇာ	
Risk Category (and Phase Work where appropriate) e.g. location aconstruction, operation, construction, operation, and maintenance, afteration/demoition Utilities and services Utilities and services	Risk Management	Owner	Costain		Costain		Costain	
Risk Category (and Phase Work where appropriate) e.g. location aconstruction, operation, construction, operation, and maintenance, afteration/demoition Utilities and services Utilities and services	Hazard or Risk Issue Identified		Risk of interfacing with cables while construction or setting up the required facilities due to presence of underground high voltage electric optics fibre.	Risk of damage to water main due to existence of high pressure water main below the structure.	Condition of water main is unknown.		Risk of explosion caused by damaging the gas mains.	
	Work Element/ Location (where appropriate)							
	tisk Category (and Phase where appropriate) e.g. locationenironment, construction, operation, maintenance, alteration/demolition		Utilities and services		Offices and services		Utilities and services	
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18/05/2023	18/05/2023
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Open	Open
The Principal Contractor will need to put in place suitable risk control measures and working methods if included within internal working practises and policies,	The Principal Contractor will need to put in place suitable risk control measures and working methods if not already included within internal working practises and policies. Spill kits or other methods to mitigate against spillage will be used.
Low	Low
5	ю
ь	ю
7052	5 5 -
Early planning and removal of existing lighting columns that clash with lifting operations. Temporary lighting located away from the structure will be used to compensate for any reduction in light levels and to provided task lighting.	Data and information are required to indicate the locations of water courses. Spill kits and local bunding will be issues as required to
Medium	Medium
6	12
8	4
8	
Costain	Costain
Risk of damage to street lighting columns while deck is being removed.	Risk of spillage and entering the watercourse during construction operations.
_	
Utilities and services	Utilities and services
4	ro

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TfL Management System

TfL Engineering - Surface and Highway Structures Submission Comments Form F7275 A1

Part A	: Comments	Part A: Comments to Designer/Contractor	ontract	or				
Subje	Subject / Project	A127/0.00 Gallows Corner Flyover	ows Co	rner Flyover				
0000		TfL Res	TfL Response			Designer/Contractor Response	esponse	Document Review Status Codes
) Aev	Date	Prepared By	3y	Reviewed By	Date	Prepared by	Approved by	A. Accepted
10	14/06/23	Charles Carew	/2	Mike Dowding				
								B. Not Accepted: Comments to be addressed through re-submission
Docui	Document Reference	ıce	Rev	Title				
STPJ REG-	STPJ388 -CST-N REG-HS-00001	STPJ388 -CST-MAC-15_XX- REG-HS-00001	P01	Design Hazard Register	er			Accepted
Live co	mments or resp	onses are shown t	Black fon	it. Closed out comments a	nd responses	are shown in Grey highligh	nt. Subsequent comment	Live comments or responses are shown Black font. Closed out comments and responses are listed beneath the

initial comment to which they relate and are numbered as #a, #b etc.

Clause/Sec. No	
Clause / Section Title	
Comment by	

COMMENTS

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TfL Comments

No comments

Page 1 of 3



Designer / Contractor Response (further response

in red)

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Transport for London TfL RESTRICTED Title: TfL Engineering - Surface and Highway Structures Submission Comments Form Document No.: F7275

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Title: TfL Engineering - Surface and Highway Structures Submission Comments Form Document No.: F7275

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	Designer / Contractor Response (further response in red)						
OBSERVATIONS (Informal comments which do not affect the approval status)	TfL Observations						
ts which do	Clause/ Sec. No						
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